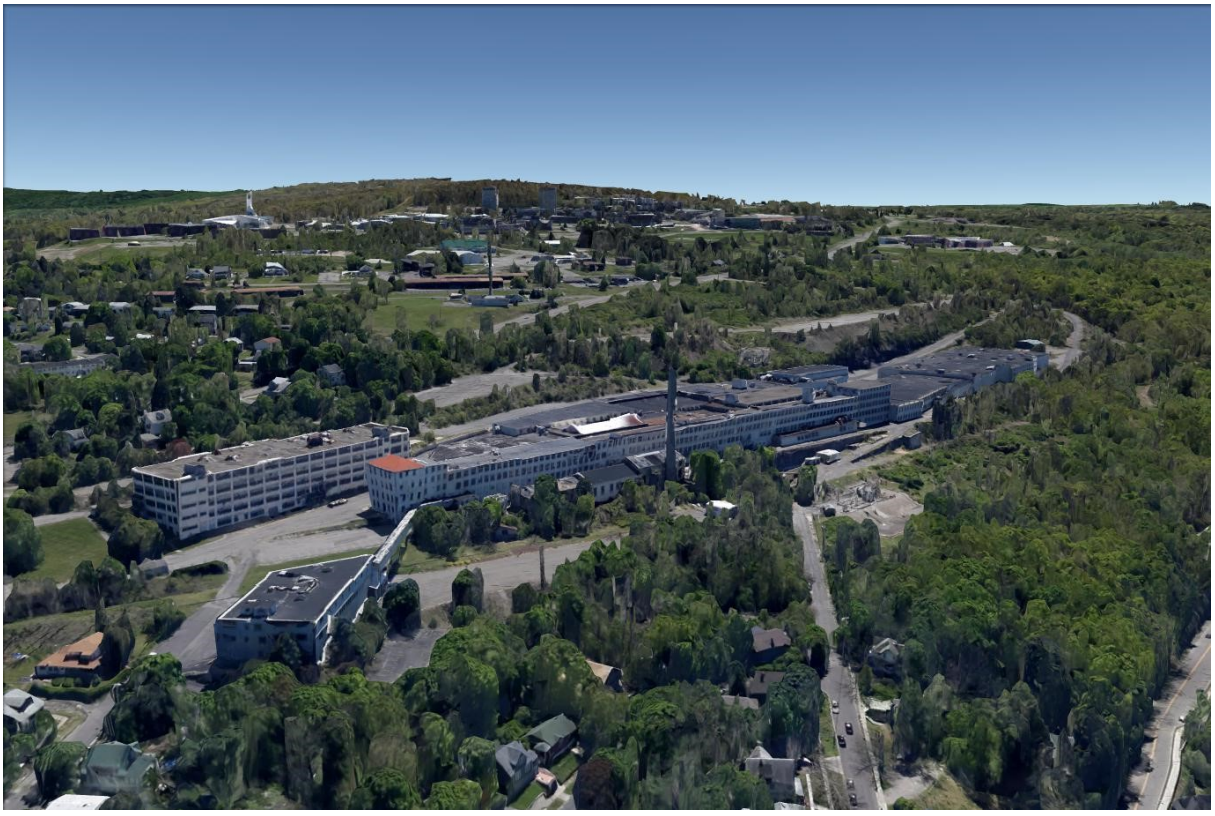
EMERSON ELECTRIC CO.

# JULY THROUGH OCTOBER 7, 2022 DUAL PHASE EXTRACTION SYSTEM OPERATIONS, MAINTENANCE, AND MONITORING REPORT #28

## FORMER EMERSON POWER TRANSMISSION SITE NO. 7-55-010

May 1, 2023



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## FORMER EMERSON POWER TRANSMISSION SITE NO. 7-55-010

EMERSON ELECTRIC CO.

PROJECT NO.: 31405608.001
DATE: MAY 1, 2023

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# 1 PROJECT STATUS AND PROGRESS TO DATE

WSP USA Inc. (WSP) has prepared this Operations, Maintenance, and Monitoring (OM&M) Report on behalf of Emerson Electric Co. for the former Emerson Power Transmission (EPT) site located in Ithaca, New York (Site No. 7-55-010) (Figures 1 and 2). This report summarizes the OM&M activities performed in association with the Dual Phase Extraction (DPE) system that was installed as an Interim Remedial Measure (IRM) in 1996 and upgraded in 2009. OM&M work was performed in accordance with the March 2009, revised October 2020 OM&M Plan and as required by the Administrative Order on Consent (Index # A7-0125-87-09) entered into by the New York State Department of Environmental Conservation (NYSDEC) and Emerson on July 13, 1987. This report describes the operation and maintenance of the DPE system for the reporting period of July 1 through October 7, 2022.

This DPE Report #28 is the last semi-annual report for documenting OM&M activities. In accordance with Interim Site Management Plan (ISMP) approved on October 7, 2022, a Periodic Review Report (PRR) will be provided as an annual report and will replace the DPE reporting. The PRR will include site-wide groundwater monitoring results, site inspection findings, and DPE treatment system performance information. The March 2023 PRR will cover the time period from October 7 through December 31, 2022.

# 2 SUMMARY OF DPE SYSTEM OPERATION, MAINTENANCE, AND MONITORING

In accordance with the OM&M Plan, the level of performance of the DPE system is determined from the DPE system operations and on the results of influent and effluent water and vapor sampling and analysis. The results of the quarterly performance samples collected during the reporting period are discussed in the following subsections. The DPE system operational issues and corrective measures implemented during the reporting period are also discussed below. Figure 3 illustrates the layout of the DPE system extraction wells and DPE building.

## 2.1 OPERATING RESULTS

Operational parameters including system uptime and influent and effluent mass loadings are calculated using flow rates, motor hour readings, and sample results. These parameters are used to determine system effectiveness and efficiency. The following bullets summarize system performance for the reporting period of July through October 7, 2022:

- System maintenance was required during the reporting period and the vapor phase portion of the DPE system was operational for 82 percent of the reporting period (Table 1).
- The vapor phase portion operated for a total of 1,941 hours with 435 hours of downtime for planned/unplanned maintenance and sampling activities during the reporting period (Table 1).
- The system extracted a total of 52,829 gallons of groundwater at an average pumping rate of 0.30 gallons per minute (approximately 437 gallons per day) over the reporting period (Table 2). The total estimated volatile organic compound (VOC) mass removal from the aqueous phase was approximately 0.33 pounds (lbs; Table 2) over the reporting period.
- Four site-related chlorinated VOCs were detected in influent water samples during the reporting period including Vinyl Chloride, Trichloroethene, trans-1,2-Dichloroethene, and cis-1,2-Dichloroethene (Table 3).
- The system extracted an estimated total of $3.03 \times 10^7$ standard cubic feet of vapor based on an average system flow capacity of 260 standard cubic feet per minute over the operating duration. The total estimated VOC mass removal from the vapor phase (sum of individual VOC compounds detected in the vapor stream) for this reporting period was approximately 2.3 lbs (Table 4).
- Six site-related chlorinated VOCs were detected in the influent vapor samples during the reporting period including 1,1-Dichloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Vinyl Chloride, Tetrachloroethene, and Trichloroethene (Table 5).
- Since the start of the DPE system in January 2009, approximately 4,784.5 lbs of VOCs have been removed from the combined aqueous and vapor phases. To date, approximately 192.1 lbs have been removed from aqueous phase extraction and 4,592.4 lbs from vapor phase extraction.

## 2.2 SUMMARY OF OPERATION AND MAINTENANCE ACTIVITIES

The following sections summarize planned and unplanned occurrences of DPE system shutdown and the maintenance activities implemented to restore proper system function.

### *2.2.1 SYSTEM PREVENTATIVE MAINTENANCE AND PLANNED SHUTDOWNS*

Planned operational shutdowns included routine O&M conducted by subcontractor Groundwater and Environmental Services, Inc. (GES) and WSP which corresponded to a total planned downtime of approximately 81 hours (Table 1).

Routine O&M maintenance items were completed in accordance with the March 2009, revised October 2020 OM&M Plan. The following maintenance activities include:

- GES performed routine system maintenance on the following dates:
  - July 6: 3 hours of downtime
  - August 8: 3 hours of downtime
  - September 2: 3 hours of downtime
- The DPE system was shut down between September 16 and September 19 for groundwater elevations measurements associated with the DPE system being offline. This resulted in approximately 72 hours of system downtime.

### 2.2.2 SYSTEM CORRECTIVE MAINTENANCE AND UNPLANNED SHUTDOWNS

During the reporting period, eleven unplanned shutdowns required corrective maintenance to the DPE system and resulted in a total of 354 hours of unplanned system downtime (Table 1). The corrective maintenance was performed by GES under the direction of WSP. The maintenance activities include:

- On July 11, the treatment building floor sump was activated which shutdown the DPE System. The air stripper door was found to have a small drip emanating around the door seal. The door was tightened to eliminate the drip. The DPE system was restarted on July 13 resulting in 38 hours of unplanned downtime.
- On July 17, a power outage occurred at the DPE system building resulting in 17 hours of unplanned downtime. Once power was restored, the DPE system automatically restarted.
- Between August 2 to August 5 and August 11 to August 15, power outages caused a low air compressor alarm and air stripper high sump alarm. The air compressor was reset, resulting in a total of 171 hours of unplanned shutdown for these two events.
- On August 8, the DPE system air compressor low-pressure alarm was activated. The air compressor was reset and tested, resulting in approximately 21 hours of an unplanned shutdown.
- On August 30, the DPE system air compressor low-pressure and equalization tank low level alarms were activated. The air compressor was reset, resulting in approximately 18 hours of an unplanned shutdown.
- On September 7, September 16, and September 22, the DPE system air compressor low-pressure alarm was activated which shut down the DPE system. The air compressor was reset and tested, resulting in a total of 89 hours of an unplanned shutdown.

## 2.3 EXTRACTION WELL EVALUATION

Groundwater and vapor samples were collected from the DPE system extraction wells in September 2022 (Figure 4, Tables 6 and 7). The purpose of this sampling event was to evaluate the current VOC extraction conditions of the DPE system extraction wells, in both the vapor and aqueous phase at each individual extraction well. In addition, the average flow rate per extraction well was determined over the reporting period and provided on Figure 4.

### 2.3.1 SUMMARY OF THE RESULTS

The following observations were made based on the groundwater and vapor samples collected from the DPE system extraction wells:

- The maximum total VOC concentration in groundwater was observed at EW-11 (49,261 ug/l). The remaining 11 extraction wells ranged in total VOC concentration from 389 ug/l in EW-1 to 3,440 ug/l in EW-8, an average of 1,556 ug/l.
- The maximum total VOC concentration in vapor was observed at EW-11 (60,525 parts per billion volume (ppbv)). The remaining 11 extraction wells ranged in total VOC concentration from 3 ppbv in EW-1 to 3,440 ppbv in EW-8, an average of 1,556 ppbv.

- The maximum groundwater flow rate was observed at EW-1 (7,171 gallons per month (GPMo)) and the lowest groundwater flow rate was observed at EW-9R (1 GPMo). The average flow rate across all 12 groundwater extraction wells was 1,559 GPMo. The groundwater extraction rates measured from EW-4 (361 GPMo), EW-9R (1 GPMo), EW-10 (419 GPMo), EW-11 (219 GPMo), and EW-12 (8 GPMo) was very low as compared to the other extraction wells.

Based on the results of the individual extraction well results and flow rate evaluation, no changes are recommended to the operation of the DPE system. Corrective actions, including rebuilding the pneumatic pump in EW-9R, have been taken to improve the flow rate at EW-9R.

# 3 SEMI-ANNUAL PERFORMANCE MONITORING

Groundwater samples were collected from monitoring wells associated with the semi-annual event in September 2022. B-Zone monitoring wells are presented in Figure 5, C-Zone monitoring wells are presented in Figure 6, and site-wide monitoring wells are presented in Figure 7.

## 3.1 SITE-WIDE GROUNDWATER SAMPLING

This section provides the results of the depth to water measurements and semi-annual groundwater samples that were collected in September 2022.

- Groundwater depth measurements taken during the semi-annual sampling event as well as the calculated groundwater elevations are presented in Table 8, and shown on Figures 8 and 9.
- Site-wide groundwater samples were collected on a semi-annual basis (scheduled once per reporting period) to assess groundwater quality on the EPT site at various locations including upgradient of the firewater reservoir, in the treatment area, and downgradient of the treatment area in the South Hill neighborhood. Table 9 and Figures 10, 11, and 12 present the analytical results for the semi-annual groundwater monitoring program.
- Historical sampling results for all wells sampled since the DPE system was installed in early 2009 are presented in Table 10.
- The Analytical Laboratory Reports are included in Appendix A, the Data Usability and Summary Reports are included in Appendix B, and monitoring well purge records are included in Appendix C.

# 4 FREE PRODUCT SURVEILLANCE

On April 29, 2014, NYSDEC requested quarterly free product surveillance monitoring and reporting. Free product surveillance monitoring is performed for groundwater wells that are known to contain free product which include MW-8B, MW-50-160D (replacement of HISTWELL-1), LBA-MW-39, and LBA-MW-35. Free product surveillance monitoring began at MW-8B in December 2009 with product recovery starting in January 2010, HISTWELL-1 in September 2014 starting in January 2016, and ended in March 2021, and MW-5-160D started in June 2021, LBA-MW-39 in September 2018, and LBA-MW-35 in October 2018. In addition, free product surveillance monitoring in AOC 1 wells MW-47A-AOC-1, MW-48A-AOC-1, and MW-49A-AOC-1 were performed between October 9, 2019, and January 21, 2021; however, no free product was detected during this period. During the week of September 19, 2022 free product was detected in MW-47A-AOC-1 while evaluating water levels. NYSDEC was notified via email of this discovery on September 22. Similar to the other free product wells, the thickness of free product in MW-47A-AOC-1 will be monitored and absorbent socks will be used to passively collect the free product quarterly.

Approximately 61 gallons of free product have been removed since free product recovery efforts began. In accordance with the September 2, 2020, NYSDEC letter, the free product surveillance schedule was modified to semi-annual reporting and quarterly monitoring.

Appendix D includes the quarterly free product surveillance report 030 from the period that covers July through December, 2022. For DPE Report 28, quarterly groundwater elevation and free product monitoring and recovery was conducted on September 16, 2022. Free product and recovery after October 7, 2022 will be included in the PRR.

## 4.1 MW-8B FREE PRODUCT MONITORING & RECOVERY

Free product was detected in MW-8B with an apparent thickness of 0.01-feet (September). In total, 0.43 gallons of the free product were recovered in September; a total of 19.64 gallons of the free product have been removed since recovery was initiated in August 2016 (Appendix D, Table 1).

## 4.2 LBA-MW-35 FREE PRODUCT MONITORING & RECOVERY

Free product was detected in LBA-MW-35 with an apparent thickness of 0.02 feet (September). In total, 0.49 gallons of the free product were recovered in September; a total of 13.78 gallons of the free product have been removed since recovery was initiated in October 2018 (Appendix D, Table 2).

## 4.3 LBA-MW-39 FREE PRODUCT MONITORING & RECOVERY

No free product was detected during the September event. In total, 0.40 gallons of the free product were recovered during September; a total of 7.09 gallons of the free product have been removed since recovery was initiated in October 2018 (Appendix D, Table 3).

## 4.4 MW-50-160D FREE PRODUCT MONITORING & RECOVERY

No free product was detected during the September event. (Appendix D, Table 4). Historically, as the HISTWELL- 1 replacement, a total of 20.43 gallons of the free product has been removed since recovery was initiated in January 2016. The HISTWELL-1 was replaced with MW-50-160D on June 21, 2021, and the June 2022 event concludes 1-year of monitoring without any measurable free product or recovery. NYSDEC granted approval to stop free product monitoring in MW-50-160D on January 23, 2023. Groundwater monitoring for CVOCs will continue at this location in accordance with the ISMP.

## 4.5 MW-47A FREE PRODUCT MONITORING & RECOVERY

Free product surveillance monitoring in AOC 1 wells MW-47A-AOC-1, MW-48A-AOC-1, and MW-49A-AOC-1 were performed between October 9, 2019, and January 21, 2021; however, no free product was detected between this period. During the week of September 19, 2022 free product was detected in MW-47A-AOC-1 while evaluating water levels.

Free product was detected in MW-47A-AOC-1 with an apparent thickness of 0.20 feet (September). Free product recovery began after October 7, 2022. (Appendix D, Table 5). Free product monitoring and recovery will continue at this monitoring location quarterly.

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# FIGURES

DWG. Name: 3140151.0001-Figure 1

Checked: JRB 10/18/21
Approved: BAP 10/18/21

Drawn By: RLD 10/15/21

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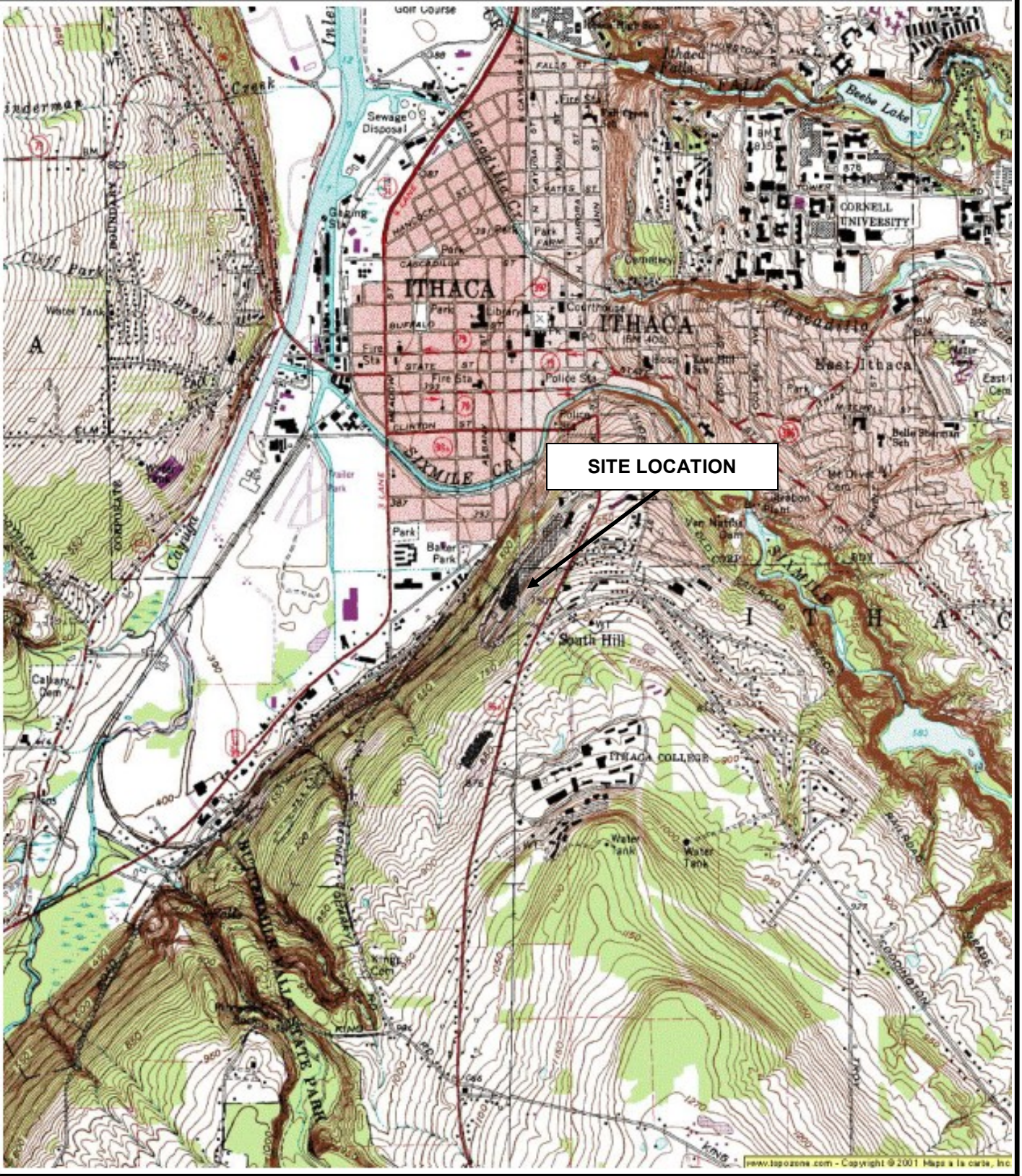


REFERENCE:
7.5 MINUTE SERIES TOPOGRAPHIC QUADRANGLE
ITHACA, NEW YORK 1976
SCALE 1:24,000



QUADRANGLE LOCATION

N

0 1000 2000 4000

SCALE, FEET

WSP USA Inc.
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HERNDON, VA 20171
TEL: +1 703.709.6500

FIGURE 1

SITE LOCATION

FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK
PREPARED FOR
EMERSON

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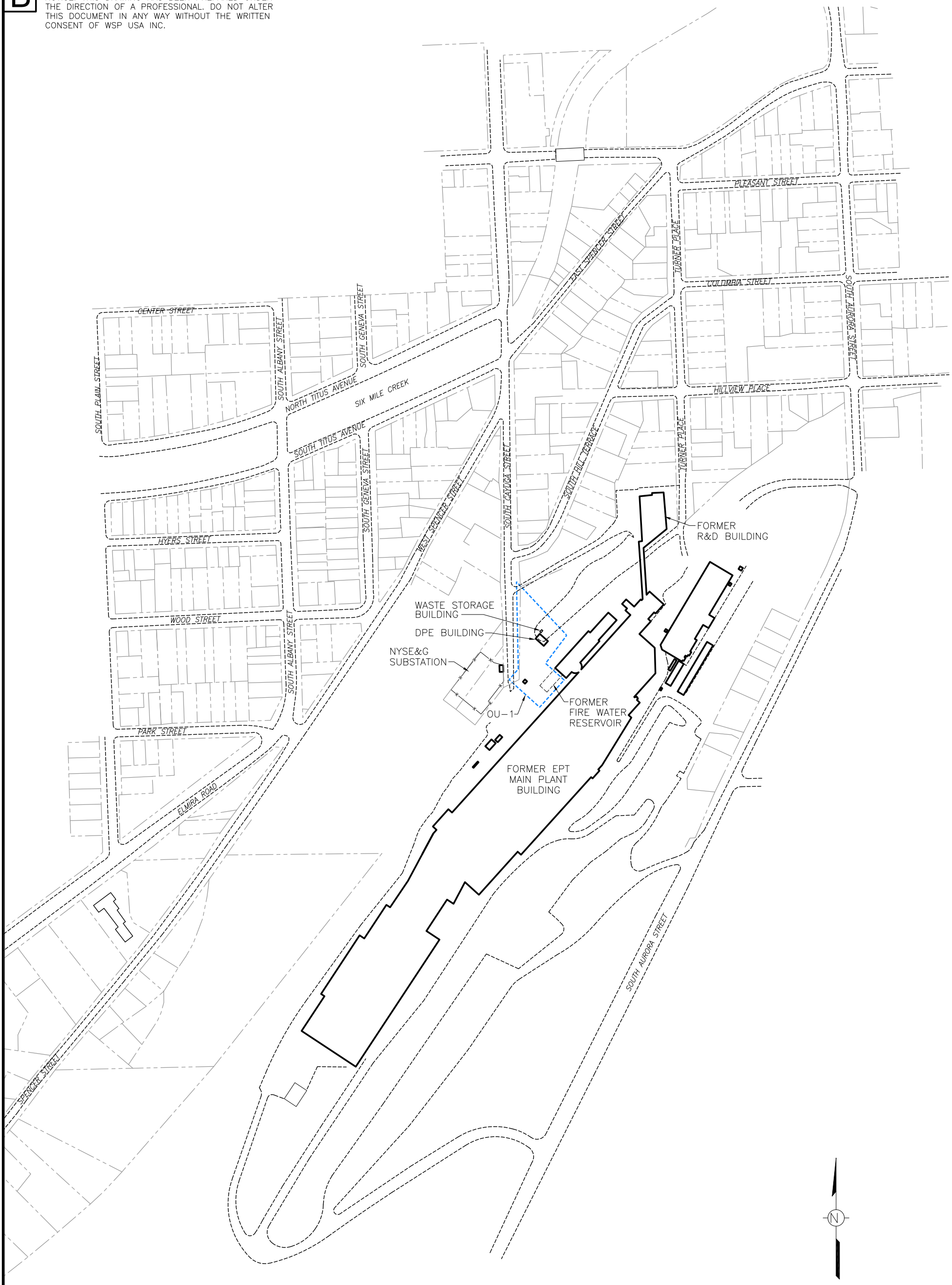


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FIGURE 2

SITE LAYOUT

FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON POWER TRANSMISSION

Drawn By: EGC
Checked: SAS 10/17/2022
Approved: JRB 11/9/2022
DWG Name: 314V5608.001-009

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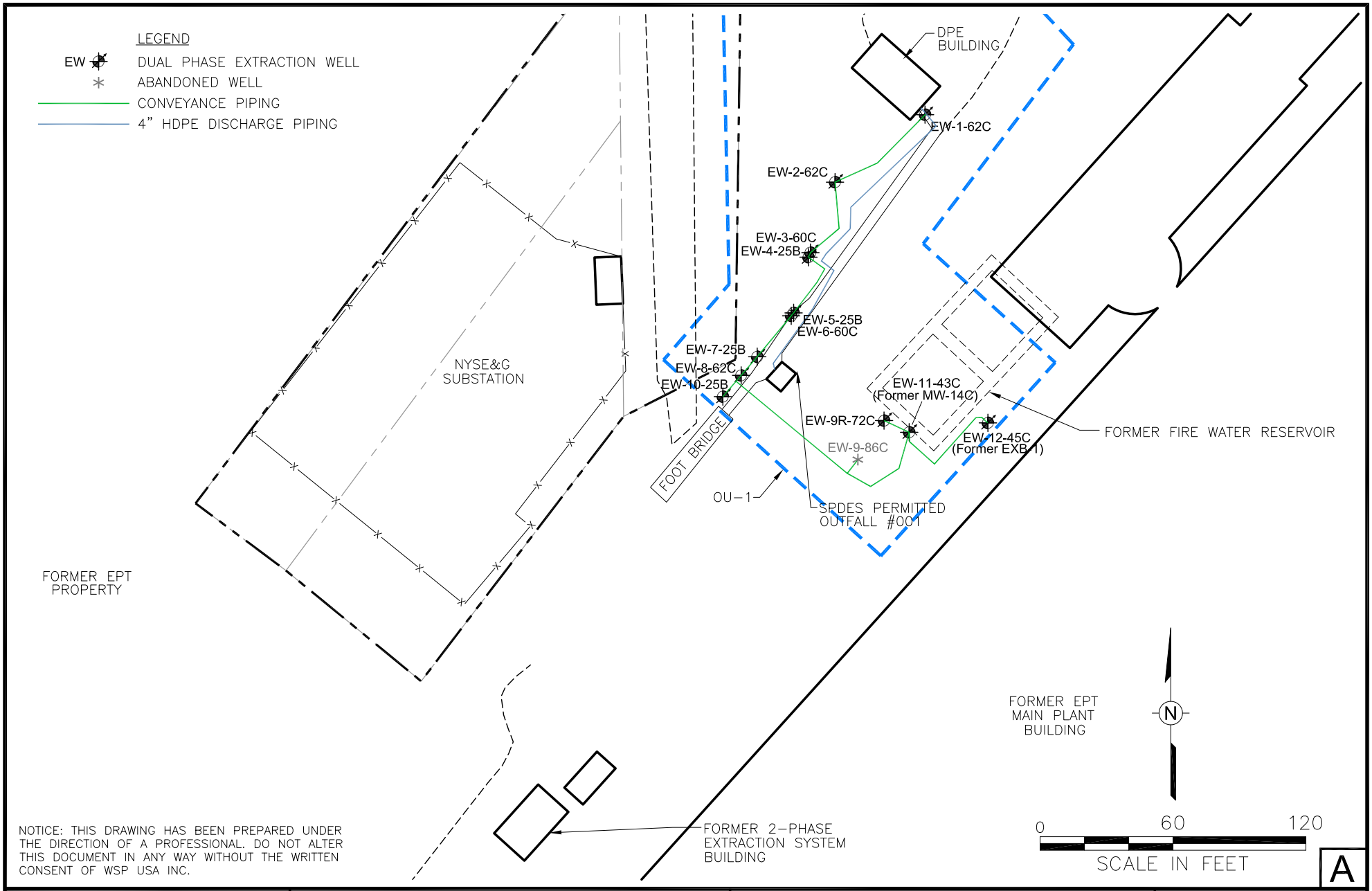


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# FIGURE 3

## DPE TREATMENT AREA

FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON POWER TRANSMISSION

Drawn By: EGC
Checked: JRB 2/10/2023
Approved:
DWG Name: 314V5608.001-010

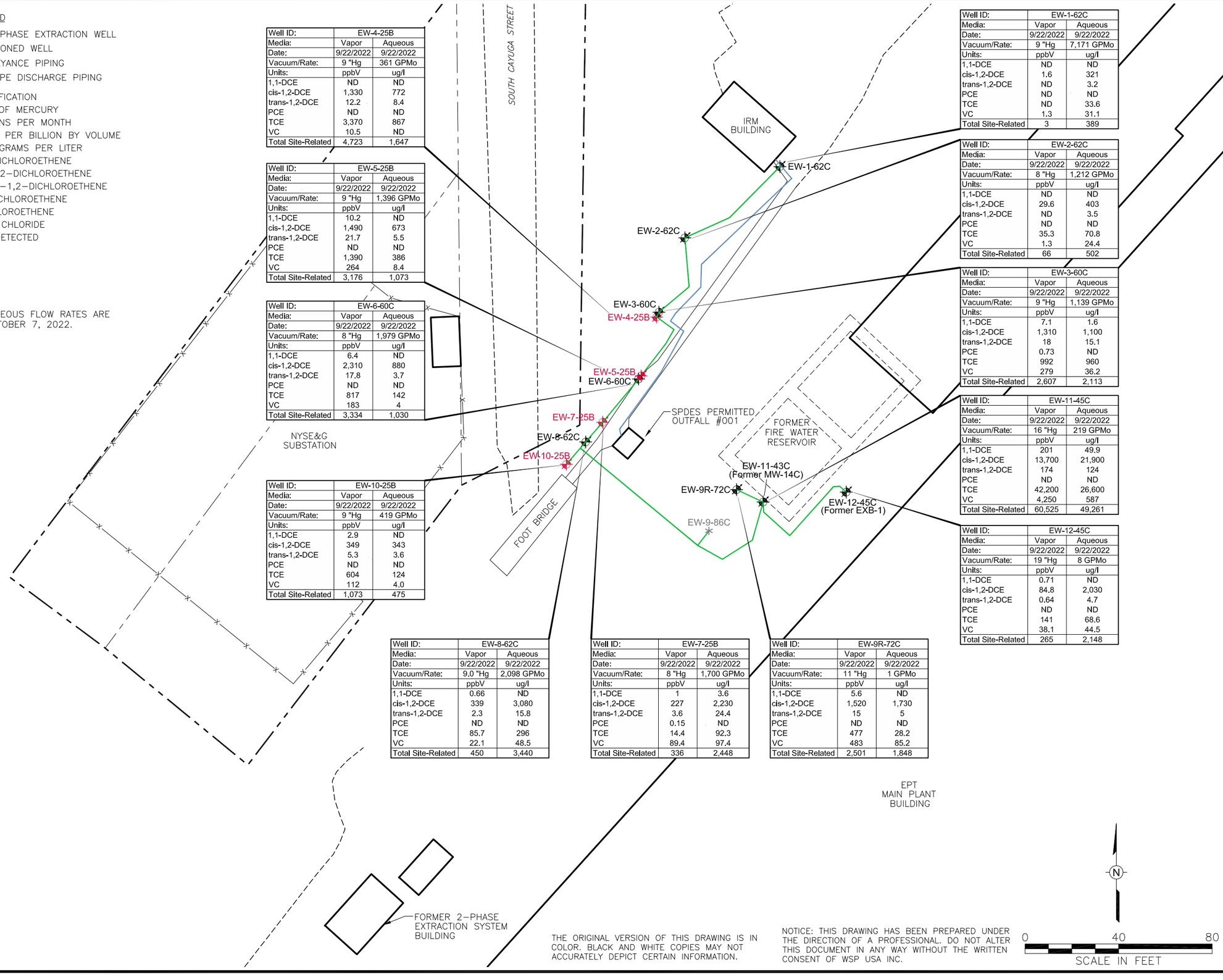
LEGEND

EW — DUAL PHASE EXTRACTION WELL
✳ — ABANDONED WELL
——— CONVEYANCE PIPING
——— 4" HDPE DISCHARGE PIPING

| | |
|---|---|
| ID | IDENTIFICATION |
| "Hg | INCH OF MERCURY |
| GPMo | GALLONS PER MONTH |
| ppbV | PARTS PER BILLION BY VOLUME |
| ug/l | MICROGRAMS PER LITER |
| 1,1-DCE | 1,1–DICHLOROETHENE |
| cis-1,2-DCE | cis–1,2–DICHLOROETHENE |
| trans-1,2-DCE | TRANS–1,2–DICHLOROETHENE |
| PCE | TETRACHLOROETHENE |
| TCE | TRICHLOROETHENE |
| VC | VINYL CHLORIDE |
| ND | NOT DETECTED |

NOTE:

VAPOR VACUUM AND AQUEOUS FLOW RATES ARE FROM JULY 2022 TO OCTOBER 7, 2022.




| Well ID: | EW-4-25B | |
|---|---|---|
| Media: | Vapor | Aqueous |
| Date: | 9/22/2022 | 9/22/2022 |
| Vacuum/Rate: | 9 "Hg | 361 GPMo |
| Units: | ppbV | ug/l |
| 1,1-DCE | ND | ND |
| cis-1,2-DCE | 1,330 | 772 |
| trans-1,2-DCE | 12.2 | 8.4 |
| PCE | ND | ND |
| TCE | 3,370 | 867 |
| VC | 10.5 | ND |
| Total Site-Related | 4,723 | 1,647 |

| Well ID: | EW-5-25B | |
|---|---|---|
| Media: | Vapor | Aqueous |
| Date: | 9/22/2022 | 9/22/2022 |
| Vacuum/Rate: | 9 "Hg | 1,396 GPMo |
| Units: | ppbV | ug/l |
| 1,1-DCE | 10.2 | ND |
| cis-1,2-DCE | 1,490 | 673 |
| trans-1,2-DCE | 21.7 | 5.5 |
| PCE | ND | ND |
| TCE | 1,390 | 386 |
| VC | 264 | 8.4 |
| Total Site-Related | 3,176 | 1,073 |

| Well ID: | EW-6-60C | |
|---|---|---|
| Media: | Vapor | Aqueous |
| Date: | 9/22/2022 | 9/22/2022 |
| Vacuum/Rate: | 8 "Hg | 1,979 GPMo |
| Units: | ppbV | ug/l |
| 1,1-DCE | 6.4 | ND |
| cis-1,2-DCE | 2,310 | 880 |
| trans-1,2-DCE | 17.8 | 3.7 |
| PCE | ND | ND |
| TCE | 817 | 142 |
| VC | 183 | 4 |
| Total Site-Related | 3,334 | 1,030 |

| Well ID: | EW-10-25B | |
|---|---|---|
| Media: | Vapor | Aqueous |
| Date: | 9/22/2022 | 9/22/2022 |
| Vacuum/Rate: | 9 "Hg | 419 GPMo |
| Units: | ppbV | ug/l |
| 1,1-DCE | 2.9 | ND |
| cis-1,2-DCE | 349 | 343 |
| trans-1,2-DCE | 5.3 | 3.6 |
| PCE | ND | ND |
| TCE | 604 | 124 |
| VC | 112 | 4.0 |
| Total Site-Related | 1,073 | 475 |

| Well ID: | EW-8-62C | |
|---|---|---|
| Media: | Vapor | Aqueous |
| Date: | 9/22/2022 | 9/22/2022 |
| Vacuum/Rate: | 9.0 "Hg | 2,098 GPMo |
| Units: | ppbV | ug/l |
| 1,1-DCE | 0.66 | ND |
| cis-1,2-DCE | 339 | 3,080 |
| trans-1,2-DCE | 2.3 | 15.8 |
| PCE | ND | ND |
| TCE | 85.7 | 296 |
| VC | 22.1 | 48.5 |
| Total Site-Related | 450 | 3,440 |

| Well ID: | EW-7-25B | |
|---|---|---|
| Media: | Vapor | Aqueous |
| Date: | 9/22/2022 | 9/22/2022 |
| Vacuum/Rate: | 8 "Hg | 1,700 GPMo |
| Units: | ppbV | ug/l |
| 1,1-DCE | 1 | 3.6 |
| cis-1,2-DCE | 227 | 2,230 |
| trans-1,2-DCE | 3.6 | 24.4 |
| PCE | 0.15 | ND |
| TCE | 14.4 | 92.3 |
| VC | 89.4 | 97.4 |
| Total Site-Related | 336 | 2,448 |

| Well ID: | EW-9R-72C | |
|---|---|---|
| Media: | Vapor | Aqueous |
| Date: | 9/22/2022 | 9/22/2022 |
| Vacuum/Rate: | 11 "Hg | 1 GPMo |
| Units: | ppbV | ug/l |
| 1,1-DCE | 5.6 | ND |
| cis-1,2-DCE | 1,520 | 1,730 |
| trans-1,2-DCE | 15 | 5 |
| PCE | ND | ND |
| TCE | 477 | 28.2 |
| VC | 483 | 85.2 |
| Total Site-Related | 2,501 | 1,848 |

| Well ID: | EW-1-62C | |
|---|---|---|
| Media: | Vapor | Aqueous |
| Date: | 9/22/2022 | 9/22/2022 |
| Vacuum/Rate: | 9 "Hg | 7,171 GPMo |
| Units: | ppbV | ug/l |
| 1,1-DCE | ND | ND |
| cis-1,2-DCE | 1.6 | 321 |
| trans-1,2-DCE | ND | 3.2 |
| PCE | ND | ND |
| TCE | ND | 33.6 |
| VC | 1.3 | 31.1 |
| Total Site-Related | 3 | 389 |

| Well ID: | EW-2-62C | |
|---|---|---|
| Media: | Vapor | Aqueous |
| Date: | 9/22/2022 | 9/22/2022 |
| Vacuum/Rate: | 8 "Hg | 1,212 GPMo |
| Units: | ppbV | ug/l |
| 1,1-DCE | ND | ND |
| cis-1,2-DCE | 29.6 | 403 |
| trans-1,2-DCE | ND | 3.5 |
| PCE | ND | ND |
| TCE | 35.3 | 70.8 |
| VC | 1.3 | 24.4 |
| Total Site-Related | 66 | 502 |

| Well ID: | EW-3-60C | |
|---|---|---|
| Media: | Vapor | Aqueous |
| Date: | 9/22/2022 | 9/22/2022 |
| Vacuum/Rate: | 9 "Hg | 1,139 GPMo |
| Units: | ppbV | ug/l |
| 1,1-DCE | 7.1 | 1.6 |
| cis-1,2-DCE | 1,310 | 1,100 |
| trans-1,2-DCE | 18 | 15.1 |
| PCE | 0.73 | ND |
| TCE | 992 | 960 |
| VC | 279 | 36.2 |
| Total Site-Related | 2,607 | 2,113 |

| Well ID: | EW-11-45C | |
|---|---|---|
| Media: | Vapor | Aqueous |
| Date: | 9/22/2022 | 9/22/2022 |
| Vacuum/Rate: | 16 "Hg | 219 GPMo |
| Units: | ppbV | ug/l |
| 1,1-DCE | 201 | 49.9 |
| cis-1,2-DCE | 13,700 | 21,900 |
| trans-1,2-DCE | 174 | 124 |
| PCE | ND | ND |
| TCE | 42,200 | 26,600 |
| VC | 4,250 | 587 |
| Total Site-Related | 60,525 | 49,261 |

| Well ID: | EW-12-45C | |
|---|---|---|
| Media: | Vapor | Aqueous |
| Date: | 9/22/2022 | 9/22/2022 |
| Vacuum/Rate: | 19 "Hg | 8 GPMo |
| Units: | ppbV | ug/l |
| 1,1-DCE | 0.71 | ND |
| cis-1,2-DCE | 84.8 | 2,030 |
| trans-1,2-DCE | 0.64 | 4.7 |
| PCE | ND | ND |
| TCE | 141 | 68.6 |
| VC | 38.1 | 44.5 |
| Total Site-Related | 265 | 2,148 |

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SCALE IN FEET

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EMERSON POWER TRANSMISSION
ITHACA, NEW YORK
PREPARED FOR
EMERSON POWER TRANSMISSION

FIGURE 4
DPE WELL
VAPOR AND AQUEOUS RESULTS
SEPTEMBER 22, 2022

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B

WEST SPENCER STREET

MW-24B

MW-23B

SOUTH CAYUGA STREET

SOUTH HILL TERRACE

FORMER EPT ACCESS ROAD

FORMER EPT PROPERTY

FORMER EPT PROPERTY BOUNDARY

MW-32B

LEGEND

B-ZONE EXTRACTION WELL

B-ZONE MONITORING WELL

ABANDONED WELL

WASTE STORAGE BUILDING

DPE BUILDING

MW-1B

EW-4-25B

EW-5-25B

MW-5B

EW-7-25B

NYSE&G SUBSTATION

EW-10-25B

FOOT BRIDGE

MW-4B

OU-1

SPDES PERMITTED OUTFALL #001

FORMER FIRE WATER RESERVOIR

MW-5-25

MW-8B

MW-7B

FORMER EPT PROPERTY

FORMER EPT MAIN PLANT BUILDING

FORMER 2-PHASE EXTRACTION SYSTEM BUILDING

N

0 60 120

SCALE IN FEET

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FIGURE 5

SELECT B-ZONE WELLS

FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON POWER TRANSMISSION

Drawn By: EGC

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B

WEST SPENCER STREET

SOUTH CAYUGA STREET

SOUTH HILL TERRACE

FORMER EPT ACCESS ROAD

FORMER EPT PROPERTY

FORMER EPT PROPERTY BOUNDARY

LEGEND

EW — C–ZONE EXTRACTION WELL LOCATION

EXB — EXPLORATORY BORING LOCATION (OPEN INTERVAL IN C–ZONE)

MW — C–ZONE MONITORING WELL

* — ABANDONED WELL

EXB-09

WASTE STORAGE BUILDING

DPE BUILDING

EXB-07

EW-1-62C

EW-2-62C

EW-3-60C

EW-6-60C

EW-12-45C (Former EXB-1)

EW-11-43C (Former MW-14C)

MW-15C

EW-8-62C

EW-9R-72C

MW-12C

MW-46-72C

EW-9-86C

MW-46-43C

MW-13C

EXB-01

FOOT BRIDGE

EXB-10

OU–1

SPDES PERMITTED OUTFALL #001

FORMER FIRE WATER RESERVOIR

NYSE&G SUBSTATION

FORMER EPT PROPERTY

FORMER EPT MAIN PLANT BUILDING

FORMER 2–PHASE EXTRACTION SYSTEM BUILDING

N

0 60 120

SCALE IN FEET

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FIGURE 6

SELECT C–ZONE WELLS

FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
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SOUTH ALBANY STREET
SOUTH GENEVA STREET
WEST SPENCER STREET
SOUTH CAYUGA STREET
SOUTH HILL TERRACE
TURNER PLACE

MW-19A Destroyed
MW-24B
MW-23B
MW-21B Destroyed
MW-22B
MW-17-40
MW-25A
MW-18A
MW-26A
MW-20B
MW-8-40
MW-9-100
MW-32B
MW-31B
MW-16-100
MW-7-40
MW-1B
MW-30B
MW-2B
MW-3B
MW-15B
MW-4B
MW-5-40
MW-5-25
MW-5-100
MW-6B

FORMER R&D BUILDING
WASTE STORAGE BUILDING
NYSE&G SUBSTATION
FORMER EPT MAIN PLANT BUILDING

LEGEND

- SEMI–ANNUAL MONITORING PROGRAM WELL
- OTHER SITE–WIDE MONITORING WELL– NOT INCLUDED IN SAMPLING PLAN (GAUGED BUT NOT SAMPLED)
- ABANDONED MONITORING WELL

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0 120 240
SCALE IN FEET

N

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FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK
PREPARED FOR
EMERSON POWER TRANSMISSION

FIGURE 7

SITE–WIDE GROUNDWATER
MONITORING WELL LOCATIONS
(SEMI–ANNUAL MONITORING PROGRAM)

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B

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B

NOTES:

1. DRAWDOWN CONTOURS WERE CALCULATED BY SUBTRACTING GROUNDWATER ELEVATIONS COLLECTED ON SEPTEMBER 16, 2022 WHILE THE SYSTEM WAS OPERATING, FROM THE GROUNDWATER ELEVATIONS COLLECTED ON SEPTEMBER 19, 2022, WHEN THE SYSTEM WAS OFF.
2. DRAWDOWN CALCULATIONS INCLUDE C–ZONE WELLS MW–46–43C, EW–11–43C, AND EW–12–45C, AND MW–5–40 WHICH INTERCEPT THE 544 AMSL FRACTURE, THE 550 AMSL FRACTURE, OR BOTH, BUT DO NOT INTERCEPT THE 515 AMSL FRACTURE.

LEGEND

- B–ZONE MONITORING WELL THAT INTERCEPTS 544 OR 550 AMSL BEDDING PLANE FRACTURES
- C–ZONE MONITORING WELL THAT INTERCEPTS 544 OR 550 AMSL BEDDING PLANE FRACTURES
- B–ZONE EXTRACTION WELL THAT INTERCEPTS 544 OR 550 AMSL BEDDING PLANE FRACTURES
- C–ZONE EXTRACTION WELL THAT INTERCEPTS 544 OR 550 AMSL BEDDING PLANE FRACTURES
- NM — NOT MEASURED
- 0.16 — CALCULATED DRAWDOWN IN FEET BELOW AMBIENT WATER LEVEL
- DRAWDOWN CONTOUR IN FEET BELOW AMBIENT WATER LEVEL

SOUTH CAYUGA STREET

FORMER EPT PROPERTY

FORMER EPT PROPERTY BOUNDARY

DPE BUILDING

NYSE&G SUBSTATION

FOOT BRIDGE

FORMER FIRE WATER RESERVOIR

MW-1B -7.86

EW-4-25B -1.48

EW-1B NM

MW-2B 0.55

MW-3B -0.9

EW-5-25B -5.84

MW-5B -1.35

EW-7-25B 10.72

EW-10-25B 4.76

MW-15C NM

EW-12-45C -0.01

EW-11-43C -17.94

MW-5-40 NM

MW-12C -0.01

MW-16C

MW-46-43C 0.16

MW-13C -0.11

MW-4B -0.26

MW-6B 0.01

MW-12B NM

MAIN PLANT BUILDING

FORMER EPT

N

0 40 80

SCALE IN FEET

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FIGURE 8

DPE SYSTEM DRAWDOWN
544 AND 550 AMSL FRACTURES
SEPTEMBER 2022

EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON POWER TRANSMISSION

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B

LEGEND

- B–ZONE MONITORING WELL THAT INTERCEPTS 515 BEDDING PLANE FRACTURE
- C–ZONE MONITORING WELL THAT INTERCEPTS 515 BEDDING PLANE FRACTURE
- C–ZONE EXTRACTION WELL THAT INTERCEPTS 515 BEDDING PLANE FRACTURE
- *NM* NOT MEASURED
- *-8.91* DRAWDOWN IN FEET BELOW AMBIENT WATER LEVEL (NEGATIVE NUMBERS INDICATE HIGHER WATER LEVELS UNDER PUMPING CONDITIONS)
- DRAWDOWN IN FEET BELOW AMBIENT GROUNDWATER ELEVATION (DASHED WHERE INFERRED)

NOTE:

DRAWDOWN CONTOURS WERE CALCULATED BY SUBTRACTING GROUNDWATER ELEVATIONS COLLECTED ON SEPTEMBER 16, 2022 WHILE THE SYSTEM WAS OPERATING, FROM THE GROUNDWATER ELEVATIONS COLLECTED ON SEPTEMBER 19, 2022, WHEN THE SYSTEM WAS OFF.

FORMER EPT PROPERTY

FORMER EPT PROPERTY BOUNDARY

EXB-09 -3.24

EXB-07 -2.29

MW-7-40 NM

EXB-11 -0.45

MW-31B NM

DPE BUILDING

EW-1-62C -9.92

EW-2-62C -16.37

EW-3-60C -18.33

EW-6-60C -8.91

EW-8-62C -15.45

EW-9R-72C -12.18

MW-46-72C -6.28

FORMER FIRE WATER RESERVOIR

MW-30B 0.35

NYSE&G SUBSTATION

FOOT BRIDGE

EXB-10 -9.36

SPDES PERMITTED OUTFALL #001

MW-44T -1.56

FORMER EPT MAIN PLANT BUILDING

N

0 40 80

SCALE IN FEET

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FIGURE 9

DPE SYSTEM DRAWDOWN
515 AMSL FRACTURES
SEPTEMBER 2022

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ITHACA, NEW YORK

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B

LEGEND

- B–ZONE EXTRACTION WELL
- B–ZONE MONITORING WELL
- B–ZONE MONITORING WELL NOT IN QUARTERLY MONITORING PROGRAM (GAUGED ONLY)
- ABANDONED WELL

ABBREVIATIONS

| | |
|---|---|
| 1,1–DCE | 1,1–DICHLOROETHENE |
| cis–1,2–DCE | CIS–1,2–DICHLOROETHENE |
| trans–1,2–DCE | TRANS–1,2–DICHLOROETHENE |
| PCE | TETRACHLOROETHENE |
| TCE | TRICHLOROETHENE |
| ND | NOT DETECTED |
| NS | NOT SAMPLED |
| J | ESTIMATED CONCENTRATION BELOW LABORATORY REPORTING LIMITS |
| UR | REJECTED NON–DETECT, CONSIDERED UNUSABLE |

NOTES:

1. CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDS REPORTED IN MICROGRAMS PER LITER (ug/l)
2. CONCENTRATIONS IN BOLD EXCEED THE EVALUATION CRITERIA LISTED IN THE NEW YORK STATE DIVISION OF WATER TECHNICAL AND OPERATIONAL GUIDANCE SERIES (TOGS) 1.1.1, TABLE 5: NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES (JUNE 1998).

NOTICE: THIS DRAWING HAS BEEN PREPARED UNDER THE DIRECTION OF A PROFESSIONAL. DO NOT ALTER THIS DOCUMENT IN ANY WAY WITHOUT THE WRITTEN CONSENT OF WSP USA INC.

SOUTH CAYUGA STREET

FORMER EPT ACCESS ROAD

MW-23B

MW-20B

FORMER EPT PROPERTY

FORMER EPT PROPERTY BOUNDARY

MW-32B

| Well ID: | MW-32B |
|---|---|
| Date: | 9/20/2022 |
| 1,1-DCE | ND |
| cis-1,2-DCE | **7.8** |
| trans-1,2-DCE | ND |
| PCE | ND |
| TCE | **35.1** |
| Vinyl Chloride | ND |
| Total Site-Related | 42.9 |

WASTE STORAGE BUILDING

DPE BUILDING

MW-31B

MW-1B

| Well ID: | MW-1B |
|---|---|
| Date: | 9/22/2022 |
| 1,1-DCE | ND |
| cis-1,2-DCE | 1.7 |
| trans-1,2-DCE | ND |
| PCE | ND |
| TCE | 2.5 |
| Vinyl Chloride | ND |
| Total Site-Related | 4.2 |

| Well ID: | MW-5B |
|---|---|
| Date: | 9/22/2022 |
| 1,1-DCE | 1.5 |
| cis-1,2-DCE | **795** |
| trans-1,2-DCE | 11.7 |
| PCE | 0.81 J |
| TCE | 554 |
| Vinyl Chloride | 27.7 |
| Total Site-Related | 1,391 |

EW-4-25B

EW-01B

MW-2B

MW-3B

EW-5-25B

MW-5B

EW-7-25B

EW-6-25B

MW-30B

NYSE&G SUBSTATION

| Well ID: | MW-5-25 |
|---|---|
| Date: | 9/20/2022 |
| 1,1-DCE | ND |
| cis-1,2-DCE | ND |
| trans-1,2-DCE | ND |
| PCE | ND |
| TCE | ND |
| Vinyl Chloride | ND |
| Total Site-Related | ND |

MW-36B

MW-5-25

MW-8B

MW-7B

FORMER FIRE WATER RESERVOIR

| Well ID: | MW-8B |
|---|---|
| Date: | 9/20/2022 |
| 1,1-DCE | ND |
| cis-1,2-DCE | ND |
| trans-1,2-DCE | ND |
| PCE | ND |
| TCE | ND |
| Vinyl Chloride | ND |
| Total Site-Related | ND |

FOOT BRIDGE

MW-4B

OU–1

SPDES PERMITTED OUTFALL #001

FORMER EPT PROPERTY

FORMER EPT MAIN PLANT BUILDING

| Well ID: | MW-4B |
|---|---|
| Date: | 9/21/2022 |
| 1,1-DCE | ND |
| cis-1,2-DCE | ND |
| trans-1,2-DCE | ND |
| PCE | ND |
| TCE | ND |
| Vinyl Chloride | 1.4 |
| Total Site-Related | 1.4 |

| Well ID: | MW-7B |
|---|---|
| Date: | 9/21/2022 |
| 1,1-DCE | ND |
| cis-1,2-DCE | 1.7 |
| trans-1,2-DCE | ND |
| PCE | ND |
| TCE | ND |
| Vinyl Chloride | ND |
| Total Site-Related | 1.7 |

| Well ID: | MW-36B |
|---|---|
| Date: | 9/21/2022 |
| 1,1-DCE | ND |
| cis-1,2-DCE | **10** |
| trans-1,2-DCE | ND |
| PCE | ND |
| TCE | 5.6 |
| Vinyl Chloride | ND |
| Total Site-Related | 15.6 |

FORMER 2–PHASE EXTRACTION SYSTEM BUILDING

N

0 60 120

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FIGURE 10

QUARTERLY GROUNDWATER SAMPLING RESULTS (B–ZONE WELLS) SEPTEMBER 2022

FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON POWER TRANSMISSION

Drawn By: EGC

Checked: JRB 2/16/2023

Approved:

DWG Name: 314V5608.001–014

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B

LEGEND

- B–ZONE EXTRACTION WELL
- B–ZONE MONITORING WELL
- B–ZONE MONITORING WELL NOT IN QUARTERLY MONITORING PROGRAM (GAUGED ONLY)
- ABANDONED WELL

ABBREVIATIONS

| | |
|---|---|
| 1,1–DCE | 1,1–DICHLOROETHENE |
| cis–1,2–DCE | CIS–1,2–DICHLOROETHENE |
| trans–1,2–DCE | TRANS–1,2–DICHLOROETHENE |
| PCE | TETRACHLOROETHENE |
| TCE | TRICHLOROETHENE |
| ND | NOT DETECTED |
| NS | NOT SAMPLED |
| J | ESTIMATED CONCENTRATION BELOW LABORATORY REPORTING LIMITS |
| UR | REJECTED NON–DETECT, CONSIDERED UNUSABLE |

NOTES:

1. CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDS REPORTED IN MICROGRAMS PER LITER (ug/l)
2. CONCENTRATIONS IN BOLD EXCEED THE EVALUATION CRITERIA LISTED IN THE NEW YORK STATE DIVISION OF WATER TECHNICAL AND OPERATIONAL GUIDANCE SERIES (TOGS) 1.1.1, TABLE 5: NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES (JUNE 1998).

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N

SOUTH CAYUGA STREET

MW-23B

FORMER EPT ACCESS ROAD

FORMER EPT PROPERTY

FORMER EPT PROPERTY BOUNDARY

EXB-9

WASTE STORAGE BUILDING

DPE BUILDING

EXB-7

MW-7-40

EW-1-62C

EW-2-62C

EW-3-60C

EW-6-60C

EW-8-62C

EW-9R-72C

EW-12-45C

EW-11-43C

MW-46-72C

MW-46-43C

EW-9-86C

EXB-1

MW-13C

MW-15C

MW-5-40

MW-12C

MW-5-100

FORMER FIRE WATER RESERVOIR

FOOT BRIDGE

OU–1

SPDES PERMITTED OUTFALL #001

EXB-10

NYSE&G SUBSTATION

FORMER EPT PROPERTY

FORMER EPT MAIN PLANT BUILDING

MW-44T

FORMER 2–PHASE EXTRACTION SYSTEM BUILDING

| Well ID: | EXB-9 |
|---|---|
| Date: | 9/19/2022 |
| 1,1-DCE | ND |
| cis-1,2-DCE | ND |
| trans-1,2-DCE | ND |
| PCE | ND |
| TCE | ND |
| Vinyl Chloride | ND |
| Total Site-Related | ND |

| Well ID: | MW-15C |
|---|---|
| Date: | 9/20/2022 |
| 1,1-DCE | 0.61 J |
| cis-1,2-DCE | **451** |
| trans-1,2-DCE | 1.7 |
| PCE | ND |
| TCE | **4.7** |
| Vinyl Chloride | **19.1** |
| Total Site-Related | 477 |

| Well ID: | MW-5-40 |
|---|---|
| Date: | 9/22/2022 |
| 1,1-DCE | ND |
| cis-1,2-DCE | **2,420** |
| trans-1,2-DCE | 101 |
| PCE | ND |
| TCE | **33** |
| Vinyl Chloride | **4,250** |
| Total Site-Related | 6,804 |

| Well ID: | MW-12C |
|---|---|
| Date: | 9/21/2022 |
| 1,1-DCE | ND |
| cis-1,2-DCE | 1.5 |
| trans-1,2-DCE | ND |
| PCE | ND |
| TCE | ND |
| Vinyl Chloride | ND |
| Total Site-Related | 1.5 |

| Well ID: | EXB-10 |
|---|---|
| Date: | 9/20/2022 |
| 1,1-DCE | ND |
| cis-1,2-DCE | 2.8 |
| trans-1,2-DCE | ND |
| PCE | ND |
| TCE | ND |
| Vinyl Chloride | ND |
| Total Site-Related | 2.8 |

| Well ID: | MW-46-72C |
|---|---|
| Date: | 9/20/2022 |
| 1,1-DCE | ND |
| cis-1,2-DCE | **11,200** |
| trans-1,2-DCE | 42 |
| PCE | ND |
| TCE | **1,090** |
| Vinyl Chloride | **964** |
| Total Site-Related | 13,296 |

| Well ID: | MW-46-43C |
|---|---|
| Date: | 9/20/2022 |
| 1,1-DCE | ND |
| cis-1,2-DCE | **14,600** |
| trans-1,2-DCE | 112 |
| PCE | ND |
| TCE | ND |
| Vinyl Chloride | **8,960** |
| Total Site-Related | 23,672 |

| Well ID: | MW-13C |
|---|---|
| Date: | 9/21/2022 |
| 1,1-DCE | ND |
| cis-1,2-DCE | **163** |
| trans-1,2-DCE | ND |
| PCE | ND |
| TCE | **219** |
| Vinyl Chloride | **1.7** |
| Total Site-Related | 384 |

0 60 120

SCALE IN FEET

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FIGURE 11

QUARTERLY GROUNDWATER SAMPLING RESULTS (C–ZONE WELLS) SEPTEMBER 2022

FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

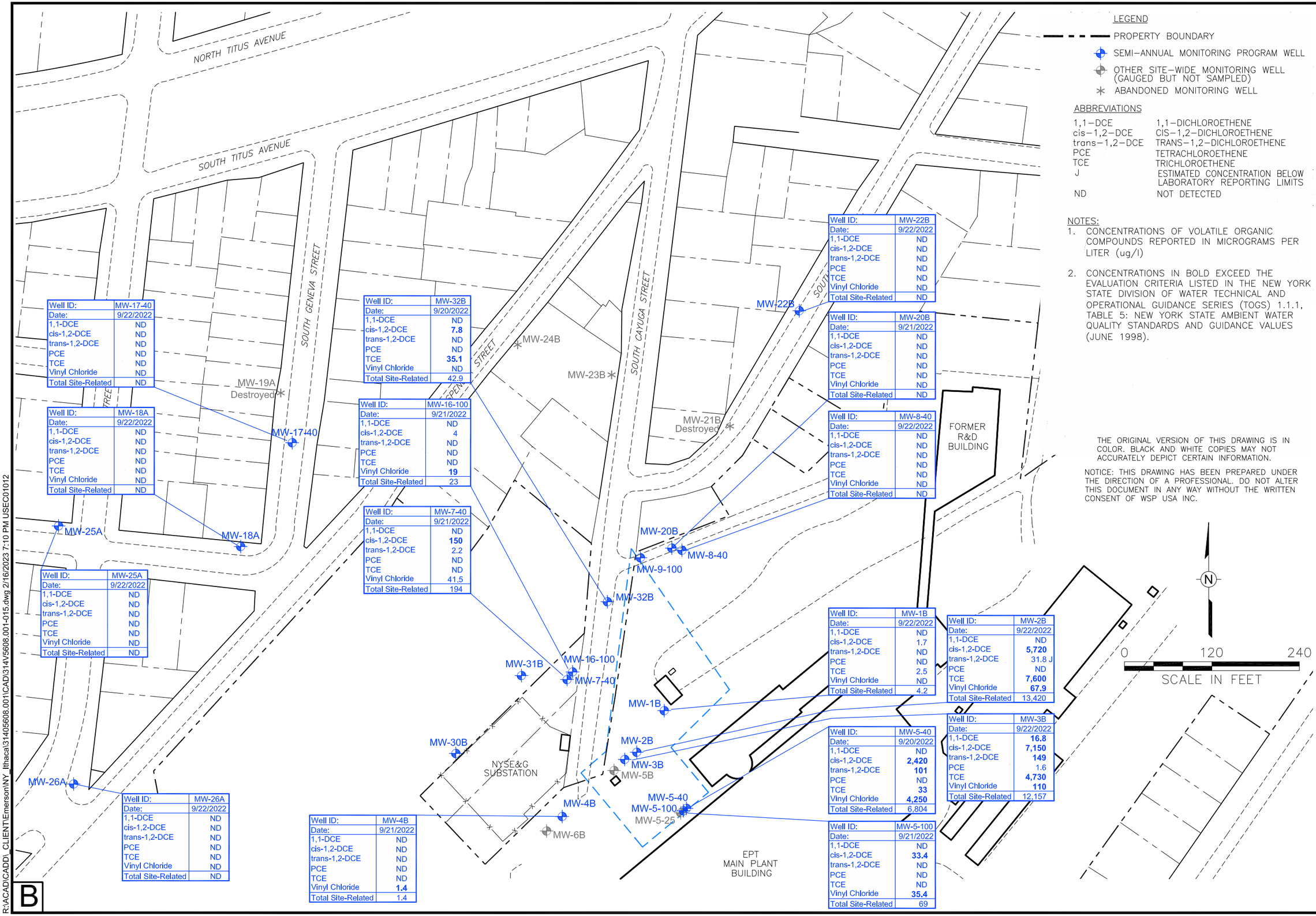
PREPARED FOR
EMERSON POWER TRANSMISSION

Drawn By: EGC

Checked: JRB 2/16/2023

Approved:

DWG Name: 314V5608.001–014




LEGEND

- PROPERTY BOUNDARY
- SEMI-ANNUAL MONITORING PROGRAM WELL
- OTHER SITE-WIDE MONITORING WELL (GAUGED BUT NOT SAMPLED)
- ABANDONED MONITORING WELL

ABBREVIATIONS

| | |
|---|---|
| 1,1-DCE | 1,1-DICHLOROETHENE |
| cis-1,2-DCE | CIS-1,2-DICHLOROETHENE |
| trans-1,2-DCE | TRANS-1,2-DICHLOROETHENE |
| PCE | TETRACHLOROETHENE |
| TCE | TRICHLOROETHENE |
| J | ESTIMATED CONCENTRATION BELOW LABORATORY REPORTING LIMITS |
| ND | NOT DETECTED |

NOTES:

1. CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDS REPORTED IN MICROGRAMS PER LITER (ug/l)
2. CONCENTRATIONS IN BOLD EXCEED THE EVALUATION CRITERIA LISTED IN THE NEW YORK STATE DIVISION OF WATER TECHNICAL AND OPERATIONAL GUIDANCE SERIES (TOGS) 1.1.1, TABLE 5: NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES (JUNE 1998).

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Drawn By: EGC
Checked: JRB 2/16/2023
Approved:
DWG Name: 314V5608.001-015

FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK
PREPARED FOR
EMERSON POWER TRANSMISSION

FIGURE 12
SEMI-ANNUAL MONITORING PROGRAM
GROUNDWATER SAMPLING RESULTS
SEPTEMBER 2022

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B

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# TABLES

**Table 1**

**Vapor Phase Extraction System Operational Time**
**Former Emerson Power Transmission**
**Ithaca, New York**

| Reporting Period | Reading Date (a) | Hour Meter Reading | Total Allowable Operational Time (hours) | Downtime due to Planned System Maintenance (hours) | Downtime due to Unplanned System Maintenance (hours) (b) | Total Downtime (hours) | Operational Efficiency (%) |
|---|---|---|---|---|---|---|---|
| ***Start Date*** | 6/30/2022 | 37,618 | -- | | | -- | -- |
| July | 7/31/2022 | 38,305 | 744 | 3 | 54 | 57 | 92.3% |
| August | 8/31/2022 | 38,836 | 744 | 3 | 210 | 213 | 71.4% |
| September | 9/30/2022 | 39,391 | 720 | 75 | 89 | 164 | 77.2% |
| October (c) | 10/7/2022 | 39,562 | 168 | 0 | 0 | 0 | 100.0% |
| | **Total Over Reporting Period :** | | **2,376** | **81** | **354** | **435** | **82%** |

a/ Reading date reflects remote telemetry reading of hour meter for B-201.

b/ Unplanned downtime due to system component malfunctions (See Report Text).

c/ The Interim Site Management Plan was approved on October 7, 2022. System operational information after October 7, 2022 will be provided in Periodic Review Reports.

**Table 2**

**Aqueous Phase VOC Mass Removed**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Sampling Period | Reading Date (b) | Total VOC Influent Concentration (µg/l) | Total VOC Effluent Concentration (µg/l) | Effluent Water Meter Reading (gallons) (b, c) | Volume of Water Extracted (gallons) | VOC Mass Removed (lbs) | Cumulative Mass Removed Since 1/20/2009 (lbs) |
|---|---|---|---|---|---|---|---|
| ***Start Date*** | 6/8/2022 | -- | -- | 3,211,425 | -- | -- | 191.8 |
| Third Quarter 2022 | 9/2/2022 | 553 | 2.4 | 3,246,633 | 35,208 | 0.16 | 192.0 |
| Fourth Quarter 2022 (d) | 10/7/2022 | 1,166 | 3.0 | 3,264,254 | 17,621 | 0.17 | 192.1 |
| | | | **Total Volume Over Reporting Period:** | | **52,829** | **0.33** | **192.1** |
| | | | **Total Days in Reporting Period:** | | **121** | | |
| | | | **Average gallons per day:** | | **437** | | |
| | | | **Average gallons per minute:** | | **0.30** | | |

a/ Abbreviations: VOC = volatile organic compound; µg/l = micrograms per liter; lbs = pounds.

b/ Reading date reflects onsite reading of the discharge flow totalizer at Outfall 01A.

c/ Recorded as the total cumulative flow since startup on January 20, 2009 from the discharge flow totalizer.

d/ The Interim Site Management Plan was approved on October 7, 2022. System operational information after October 7, 2022 will be provided in Periodic Review Reports.

# Table 3

## Aqueous Phase Sampling Results
## Former Emerson Power Transmission
## Ithaca, New York (a, b)

| Sample ID: | WINF | |
|---|---|---|
| Location: | System Influent | |
| Sample Date: | 07/27/22 | 10/24/22 |
| **VOCs (µg/l)** | | |
| Acetone | 10 U | 10 U |
| Benzene | 0.50 U | 0.50 U |
| Bromodichloromethane | 1.0 U | 1.0 U |
| Bromoform | 1.0 U | 1.0 U |
| Bromomethane | 2.0 U | 2.0 U |
| 2-Butanone (MEK) | 10 U | 10 U |
| Carbon disulfide | 2.0 U | 2.0 U |
| Carbon tetrachloride | 1.0 U | 1.0 U |
| Chlorobenzene | 1.0 U | 1.0 U |
| Chloroethane | 1.0 U | 1.0 U |
| Chloroform | 1.0 U | 1.0 U |
| Chloromethane | 1.0 U | 1.0 U |
| Cyclohexane | 5.0 U | 5.0 U |
| 1,2-Dibromo-3-chloropropane | 2.0 U | 2.0 U |
| Dibromochloromethane | 1.0 U | 1.0 U |
| 1,2-Dibromoethane | 1.0 U | 1.0 U |
| 1,2-Dichlorobenzene | 1.0 U | 1.0 U |
| 1,3-Dichlorobenzene | 1.0 U | 1.0 U |
| 1,4-Dichlorobenzene | 1.0 U | 1.0 U |
| Dichlorodifluoromethane | 2.0 U | 2.0 U |
| 1,1-Dichloroethane | 1.0 U | 1.0 U |
| 1,2-Dichloroethane | 1.0 U | 1.0 U |
| 1,1-Dichloroethene | 1.0 U | 1.0 U |
| cis-1,2-Dichloroethene | 425 | 735 |
| trans-1,2-Dichloroethene | 2.7 | 4.4 |
| 1,2-Dichloropropane | 1.0 U | 1.0 U |
| cis-1,3-Dichloropropene | 1.0 U | 1.0 U |
| trans-1,3-Dichloropropene | 1.0 U | 1.0 U |
| Ethylbenzene | 1.0 U | 1.0 U |
| Freon 113 | 5.0 U | 5.0 U |
| 2-Hexanone | 5.0 U | 5.0 U |
| Isopropylbenzene | 1.0 U | 1.0 U |
| Methyl Acetate | 5.0 U | 5.0 U |
| Methylcyclohexane | 5.0 U | 5.0 U |
| Methyl Tert Butyl Ether | 1.0 U | 1.0 U |
| 4-Methyl-2-pentanone(MIBK) | 5.0 U | 5.0 U |
| Methylene chloride | 2.0 U | 2.0 U |
| Styrene | 1.0 U | 1.0 U |
| 1,1,2,2-Tetrachloroethane | 1.0 U | 1.0 U |
| Tetrachloroethene | 1.0 U | 1.0 U |
| Toluene | 1.0 U | 1.0 U |
| 1,2,4-Trichlorobenzene | 1.0 U | 1.0 U |
| 1,1,1-Trichloroethane | 1.0 U | 1.0 U |
| 1,1,2-Trichloroethane | 1.0 U | 1.0 U |
| Trichloroethene | 124 | 421 |
| Trichlorofluoromethane | 2.0 U | 2.0 U |
| Vinyl chloride | 11.8 | 5.7 |
| Xylene (total) | 1.0 U | 1.0 U |
| **Total VOCs (µg/l)** | **553** | **1,166** |

## Table 3

## Aqueous Phase Sampling Results
## Former Emerson Power Transmission
## Ithaca, New York (a, b)

| Sample ID: | WAS | |
|---|---|---|
| Location: | Post Air-Stripper/Pre-Carbon | |
| Sample Date: | 07/27/22 | 10/24/22 |
| **VOCs (µg/l)** | | |
| Acetone | 10 U | 10 U |
| Benzene | 0.50 U | 0.50 U |
| Bromodichloromethane | 1.0 U | 1.0 U |
| Bromoform | 1.0 U | 1.0 U |
| Bromomethane | 2.0 U | 2.0 U |
| 2-Butanone (MEK) | 10 U | 10 U |
| Carbon disulfide | 2.0 U | 2.0 U |
| Carbon tetrachloride | 1.0 U | 1.0 U |
| Chlorobenzene | 1.0 U | 1.0 U |
| Chloroethane | 1.0 U | 1.0 U |
| Chloroform | 1.0 U | 1.0 U |
| Chloromethane | 1.0 U | 1.0 U |
| Cyclohexane | 5.0 U | 5.0 U |
| 1,2-Dibromo-3-chloropropane | 2.0 U | 2.0 U |
| Dibromochloromethane | 1.0 U | 1.0 U |
| 1,2-Dibromoethane | 1.0 U | 1.0 U |
| 1,2-Dichlorobenzene | 1.0 U | 1.0 U |
| 1,3-Dichlorobenzene | 1.0 U | 1.0 U |
| 1,4-Dichlorobenzene | 1.0 U | 1.0 U |
| Dichlorodifluoromethane | 2.0 U | 2.0 U |
| 1,1-Dichloroethane | 1.0 U | 1.0 U |
| 1,2-Dichloroethane | 1.0 U | 1.0 U |
| 1,1-Dichloroethene | 1.0 U | 1.0 U |
| cis-1,2-Dichloroethene | 1.0 U | 2.4 |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 U |
| 1,2-Dichloropropane | 1.0 U | 1.0 U |
| cis-1,3-Dichloropropene | 1.0 U | 1.0 U |
| trans-1,3-Dichloropropene | 1.0 U | 1.0 U |
| Ethylbenzene | 1.0 U | 1.0 U |
| Freon 113 | 5.0 U | 5.0 U |
| 2-Hexanone | 5.0 U | 5.0 U |
| Isopropylbenzene | 1.0 U | 1.0 U |
| Methyl Acetate | 5.0 U | 5.0 U |
| Methylcyclohexane | 5.0 U | 5.0 U |
| Methyl Tert Butyl Ether | 1.0 U | 1.0 U |
| 4-Methyl-2-pentanone(MIBK) | 5.0 U | 5.0 U |
| Methylene chloride | 2.0 U | 2.0 U |
| Styrene | 1.0 U | 1.0 U |
| 1,1,2,2-Tetrachloroethane | 1.0 U | 1.0 U |
| Tetrachloroethene | 1.0 U | 1.0 U |
| Toluene | 1.0 U | 1.0 U |
| 1,2,4-Trichlorobenzene | 1.0 U | 1.0 U |
| 1,1,1-Trichloroethane | 1.0 U | 1.0 U |
| 1,1,2-Trichloroethane | 1.0 U | 1.0 U |
| Trichloroethene | 1.0 U | 0.68 J |
| Trichlorofluoromethane | 2.0 U | 2.0 U |
| Vinyl chloride | 1.0 U | 1.0 U |
| Xylene (total) | 1.0 U | 1.0 U |
| **Total VOCs (µg/l)** | ND | 3.1 |

## Table 3

## Aqueous Phase Sampling Results
## Former Emerson Power Transmission
## Ithaca, New York (a, b)

| Sample ID: | WMID GAC | |
|---|---|---|
| Location: | Between Aqueous Carbon Vessels | |
| Sample Date: | 07/27/22 | 10/24/22 |
| **VOCs (µg/l)** | | |
| Acetone | 10 U | 10 U |
| Benzene | 0.50 U | 0.50 U |
| Bromodichloromethane | 1.0 U | 1.0 U |
| Bromoform | 1.0 U | 1.0 U |
| Bromomethane | 2.0 U | 2.0 U |
| 2-Butanone (MEK) | 10 U | 10 U |
| Carbon disulfide | 2.0 U | 2.0 U |
| Carbon tetrachloride | 1.0 U | 1.0 U |
| Chlorobenzene | 1.0 U | 1.0 U |
| Chloroethane | 1.0 U | 1.0 U |
| Chloroform | 0.64 J | 0.56 J |
| Chloromethane | 1.0 U | 1.0 U |
| Cyclohexane | 5.0 U | 5.0 U |
| 1,2-Dibromo-3-chloropropane | 2.0 U | 2.0 U |
| Dibromochloromethane | 1.0 U | 1.0 U |
| 1,2-Dibromoethane | 1.0 U | 1.0 U |
| 1,2-Dichlorobenzene | 1.0 U | 1.0 U |
| 1,3-Dichlorobenzene | 1.0 U | 1.0 U |
| 1,4-Dichlorobenzene | 1.0 U | 1.0 U |
| Dichlorodifluoromethane | 2.0 U | 2.0 U |
| 1,1-Dichloroethane | 1.0 U | 1.0 U |
| 1,2-Dichloroethane | 1.0 U | 1.0 U |
| 1,1-Dichloroethene | 1.0 U | 1.0 U |
| cis-1,2-Dichloroethene | 6.9 | 8.1 |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 U |
| 1,2-Dichloropropane | 1.0 U | 1.0 U |
| cis-1,3-Dichloropropene | 1.0 U | 1.0 U |
| trans-1,3-Dichloropropene | 1.0 U | 1.0 U |
| Ethylbenzene | 1.0 U | 1.0 U |
| Freon 113 | 5.0 U | 5.0 U |
| 2-Hexanone | 5.0 U | 5.0 U |
| Isopropylbenzene | 1.0 U | 1.0 U |
| Methyl Acetate | 5.0 U | 5.0 U |
| Methylcyclohexane | 5.0 U | 5.0 U |
| Methyl Tert Butyl Ether | 1.0 U | 1.0 U |
| 4-Methyl-2-pentanone(MIBK) | 5.0 U | 5.0 U |
| Methylene chloride | 2.0 U | 2.0 U |
| Styrene | 1.0 U | 1.0 U |
| 1,1,2,2-Tetrachloroethane | 1.0 U | 1.0 U |
| Tetrachloroethene | 1.0 U | 1.0 U |
| Toluene | 1.0 U | 1.0 U |
| 1,2,4-Trichlorobenzene | 1.0 U | 1.0 U |
| 1,1,1-Trichloroethane | 1.0 U | 1.0 U |
| 1,1,2-Trichloroethane | 1.0 U | 1.0 U |
| Trichloroethene | 1.0 U | 1.0 U |
| Trichlorofluoromethane | 2.0 U | 2.0 U |
| Vinyl chloride | 1.0 U | 1.0 U |
| Xylene (total) | 1.0 U | 1.0 U |
| **Total VOCs (µg/l)** | **7.5** | **8.7** |

## Table 3

## Aqueous Phase Sampling Results
## Former Emerson Power Transmission
## Ithaca, New York (a, b)

| Sample ID: | WPOST GAC | |
|---|---|---|
| Location: | Post-Carbon (System Discharge) | |
| Sample Date: | 07/27/22 | 10/24/22 |
| **VOCs (µg/l)** | | |
| Acetone | 10 U | 10 U |
| Benzene | 0.50 U | 0.50 U |
| Bromodichloromethane | 1.0 U | 1.0 U |
| Bromoform | 1.0 U | 1.0 U |
| Bromomethane | 2.0 U | 2.0 U |
| 2-Butanone (MEK) | 10 U | 10 U |
| Carbon disulfide | 2.0 U | 2.0 U |
| Carbon tetrachloride | 1.0 U | 1.0 U |
| Chlorobenzene | 1.0 U | 1.0 U |
| Chloroethane | 1.0 U | 1.0 U |
| Chloroform | 1.0 U | 1.0 U |
| Chloromethane | 1.0 U | 1.0 U |
| Cyclohexane | 5.0 U | 5.0 U |
| 1,2-Dibromo-3-chloropropane | 2.0 U | 2.0 U |
| Dibromochloromethane | 1.0 U | 1.0 U |
| 1,2-Dibromoethane | 1.0 U | 1.0 U |
| 1,2-Dichlorobenzene | 1.0 U | 1.0 U |
| 1,3-Dichlorobenzene | 1.0 U | 1.0 U |
| 1,4-Dichlorobenzene | 1.0 U | 1.0 U |
| Dichlorodifluoromethane | 2.0 U | 2.0 U |
| 1,1-Dichloroethane | 1.0 U | 1.0 U |
| 1,2-Dichloroethane | 1.0 U | 1.0 U |
| 1,1-Dichloroethene | 1.0 U | 1.0 U |
| cis-1,2-Dichloroethene | 2.4 | 3.0 |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 U |
| 1,2-Dichloropropane | 1.0 U | 1.0 U |
| cis-1,3-Dichloropropene | 1.0 U | 1.0 U |
| trans-1,3-Dichloropropene | 1.0 U | 1.0 U |
| Ethylbenzene | 1.0 U | 1.0 U |
| Freon 113 | 5.0 U | 5.0 U |
| 2-Hexanone | 5.0 U | 5.0 U |
| Isopropylbenzene | 1.0 U | 1.0 U |
| Methyl Acetate | 5.0 U | 5.0 U |
| Methylcyclohexane | 5.0 U | 5.0 U |
| Methyl Tert Butyl Ether | 1.0 U | 1.0 U |
| 4-Methyl-2-pentanone(MIBK) | 5.0 U | 5.0 U |
| Methylene chloride | 2.0 U | 2.0 U |
| Styrene | 1.0 U | 1.0 U |
| 1,1,2,2-Tetrachloroethane | 1.0 U | 1.0 U |
| Tetrachloroethene | 1.0 U | 1.0 U |
| Toluene | 1.0 U | 1.0 U |
| 1,2,4-Trichlorobenzene | 1.0 U | 1.0 U |
| 1,1,1-Trichloroethane | 1.0 U | 1.0 U |
| 1,1,2-Trichloroethane | 1.0 U | 1.0 U |
| Trichloroethene | 1.0 U | 1.0 U |
| Trichlorofluoromethane | 2.0 U | 2.0 U |
| Vinyl chloride | 1.0 U | 1.0 U |
| Xylene (total) | 1.0 U | 1.0 U |
| **Total VOCs (µg/l)** | **2.4** | **3.0** |

a/ Abbreviations: VOC = volatile organic compound; µg/l = micrograms per liter; J = estimated concentration below reporting limit; U = compound not detected; ND = no compounds detected.

b/ System samples were not collected during the fourth quarter 2020.

**Table 4**

**Vapor Phase VOC Mass Removed**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Sampling Period | Reading Date (b) | Total VOC Influent Concentration ($mg/m^3$) | Vacuum Blower Meter Reading (hrs) (b) | Sampling Period Vacuum Blower Run Time (hrs) | TCE mass flux (lbs/hr) | 1,2-DCE mass flux (lbs/hr) | PCE mass flux (lbs/hr) | 1,1-DCE mass flux (lbs/hr) | VC mass flux (lbs/hr) | Quarterly Average Air Flow ($m^3/hr$) | Total VOC mass flux (lbs/hr) (c) | VOC Mass Removed (lbs) | Cumulative Mass Removed Since 1/20/2009 (lbs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Start Date*** | 6/30/2022 | -- | 37,618 | -- | -- | -- | -- | -- | | | -- | -- | 4,590.1 |
| Third Quarter 2022 | 9/30/2022 | 1.4 | 39,391 | 1,773 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 441 | 0.001 | 2.3 | 4,592.4 |
| Fourth Quarter 2022 | 10/7/2022 | 0.0 | 39,562 | 171 | 0.000 | 0.000 | ND | ND | ND | 441 | 0.000 | 0.0 | 4,592.4 |
| | | | | | | | | | | | **Total Over Reporting Period:** | **2.3** | **4,592.4** |

a/ Abbreviations: VOC = volatile organic compound; $mg/m^3$ = milligrams per cubic meter; hrs = hours; lbs = pounds; lbs/hr = pounds per hour; $m^3/hr$ = cubic meters per hour; TCE = Trichloroethene; 1,2-DCE = cis/trans-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1-DCE = 1,1-Dichloroethene; VC = Vinyl chloride; ND = non detect.

b/ Reading date reflects remote telemetry reading of hour meter for B-201.

c/ Mass flux calculations based on an average monthly field measurement of system flow capacity over the operating period.

**Table 5**

**Vapor Phase Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Sample ID: | Molecular | VINF | | | |
|---|---|---|---|---|---|
| Sample Date: | Weight | 07/27/22 | | 10/24/22 | |
| Units: | (g/mol) | (ppmv) | ($mg/m^3$) | (ppmv) | ($mg/m^3$) |
| **VOCs** | | | | | |
| 1,1-Dichloroethene | 96.9 | 0.00056 | 0.0022 | 0.00016 U | 0.00063 U |
| cis-1,2-Dichloroethene | 96.9 | 0.236 | 0.936 | 0.0073 | 0.029 |
| trans-1,2-Dichloroethene | 96.9 | 0.0016 | 0.0063 | 0.0008 U | 0.0032 U |
| Tetrachloroethene | 165.8 | 0.00018 | 0.0012 | 0.00016 U | 0.0011 U |
| Trichloroethene | 131.4 | 0.0634 | 0.341 | 0.0031 | 0.017 |
| Vinyl Chloride | 62.5 | 0.0295 | 0.0754 | 0.00016 U | 0.00041 U |
| | **Total VOCs:** | **0.33** | **1.36** | **0.01** | **0.05** |

| Sample ID: | Molecular | VPOST GAC | | | |
|---|---|---|---|---|---|
| Sample Date: | Weight | 07/27/22 | | 10/24/22 | |
| Units: | (g/mol) | (ppmv) | ($mg/m^3$) | (ppmv) | ($mg/m^3$) |
| **VOCs** | | | | | |
| 1,1-Dichloroethene | 96.9 | 0.00016 U | 0.00063 U | 0.00016 U | 0.00063 U |
| cis-1,2-Dichloroethene | 96.9 | 0.18 | 0.714 | 0.0064 | 0.025 |
| trans-1,2-Dichloroethene | 96.9 | 0.00092 | 0.0036 | 0.0008 U | 0.0032 U |
| Tetrachloroethene | 165.8 | 0.00058 | 0.0039 | 0.00016 U | 0.0011 U |
| Trichloroethene | 131.4 | 0.159 | 0.855 | 0.0095 | 0.051 |
| Vinyl Chloride | 62.5 | 0.0121 | 0.0309 | 0.0015 | 0.0038 |
| | **Total VOCs:** | **0.34** | **1.57** | **0.02** | **0.08** |

a/ Abbreviations: VOC = volatile organic compound; g/mol = grams per mole; ppmv = parts per million by volume; $mg/m^3$ = milligrams per cubic meter; U

**Table 6**

**Extraction Well Aqueous Phase Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| **Sample ID:** | **EW-1-62C** | | | **EW-2-62C** | | | **EW-3-60C** | | | **EW-4-25B** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample Date:** | 7/24/2020 | 10/7/2021 | 9/22/2022 | 7/24/2020 | 10/7/2021 | 9/22/2022 | 7/24/2020 | 10/7/2021 | 9/22/2022 | 7/24/2020 | 10/7/2021 | 9/22/2022 |
| **VOCs (µg/L)** | | | | | | | | | | | | |
| Acetone | 60 U | 10 U | 10 U | 60 U | 12.1 J | 10 U | 60 U | 500 U | 20 U | 30 U | 200 U | 40 U |
| Benzene | 4.3 U | 0.5 U | 0.05 U | 4.3 U | 2 U | 0.5 U | 4.3 U | 25 U | 1 U | 2.1 U | 10 U | 2 U |
| Bromodichloromethane | 5.8 U | 1 U | 1 U | 5.8 U | 4 U | 1 U | 5.8 U | 50 U | 2 U | 2.9 U | 20 U | 4 U |
| Bromoform | 6.3 U | 1 U | 1 U | 6.3 U | 4 U | 1 U | 6.3 U | 50 U | 2 U | 3.2 U | 20 U | 4 U |
| Bromomethane | 16 U | 2 U | 2 U | 16 U | 8 U | 2 U | 16 U | 100 U | 4 U | 8.2 U | 40 U | 8 U |
| 2-Butanone (MEK) | 69 U | 10 U | 10 U | 69 U | 40 U | 10 U | 69 U | 500 U | 20 U | 34 U | 200 U | 40 U |
| Carbon disulfide | 9.5 U | 2 U | 2 U | 9.5 U | 8 U | 2 U | 9.5 U | 100 U | 4 U | 4.8 U | 40 U | 8 U |
| Carbon tetrachloride | 5.5 U | 1 U | 1 U | 5.5 U | 4 U | 1 U | 5.5 U | 50 U | 2 U | 2.8 U | 20 U | 4 U |
| Chlorobenzene | 5.6 U | 1 U | 1 U | 5.6 U | 4 U | 1 U | 5.6 U | 50 U | 2 U | 2.8 U | 20 U | 4 U |
| Chloroethane | 7.3 U | 1 U | 1 U | 7.3 U | 4 U | 1 U | 7.3 U | 50 U | 2 U | 3.6 U | 20 U | 4 U |
| Chloroform | 5 U | 1 U | 1 U | 5 U | 4 U | 1 U | 5 U | 50 U | 2 U | 2.5 U | 20 U | 4 U |
| Chloromethane | 7.6 U | 1 U | 1 U | 7.6 U | 4 U | 1 U | 7.6 U | 50 U | 2 U | 3.8 U | 20 U | 4 U |
| Cyclohexane | 7.8 U | 5 U | 5 U | 7.8 U | 20 U | 5 U | 7.8 U | 250 U | 10 U | 3.9 U | 100 U | 20 U |
| 1,2-Dibromo-3-chloropropane | 12 U | 2 U | 2 U | 12 U | 8 U | 2 U | 12 U | 100 U | 4 U | 6 U | 40 U | 8 U |
| Dibromochloromethane | 5.6 U | 1 U | 1 U | 5.6 U | 4 U | 1 U | 5.6 U | 50 U | 2 U | 2.8 U | 20 U | 4 U |
| 1,2-Dibromoethane | 4.8 U | 1 U | 1 U | 4.8 U | 4 U | 1 U | 4.8 U | 50 U | 2 U | 2.4 U | 20 U | 4 U |
| 1,2-Dichlorobenzene | 5.3 U | 1 U | 1 U | 5.3 U | 4 U | 1 U | 5.3 U | 50 U | 2 U | 2.7 U | 20 U | 4 U |
| 1,3-Dichlorobenzene | 5.4 U | 1 U | 1 U | 5.4 U | 4 U | 1 U | 5.4 U | 50 U | 2 U | 2.7 U | 20 U | 4 U |
| 1,4-Dichlorobenzene | 5.1 U | 1 U | 1 U | 5.1 U | 4 U | 1 U | 5.1 U | 50 U | 2 U | 2.5 U | 20 U | 4 U |
| Dichlorodifluoromethane | 14 U | 2 U | 2 U | 14 U | 8 U | 2 U | 14 U | 100 U | 4 U | 6.8 U | 40 U | 8 U |
| 1,1-Dichloroethane | 5.7 U | 1 U | 1 U | 5.7 U | 4 U | 1 U | 5.7 U | 50 U | 2 U | 2.8 U | 20 U | 4 U |
| 1,2-Dichloroethane | 6 U | 1 U | 1 U | 6 U | 4 U | 1 U | 6 U | 50 U | 2 U | 3 U | 20 U | 4 U |
| 1,1-Dichloroethene | 5.9 U | 1 U | 1 U | 5.9 U | 4 U | 1 U | 5.9 U | 50 U | 1.6 J | 3 U | 20 U | 4 U |
| cis-1,2-Dichloroethene | 1,550 | 379 | 321 | 2,020 | 2,000 | 403 | 4,020 | 7,480 | 1,100 | 521 | 2,970 | 772 |
| trans-1,2-Dichloroethene | 17.8 | 8.6 | 3.2 | 35 | 301 | 3.5 | 135 | 42.2 J | 15.1 | 7.9 | 488 | 8.4 |
| 1,2-Dichloropropane | 5.1 U | 1 U | 1 U | 5.1 U | 4 U | 1 U | 5.1 U | 50 U | 2 U | 2.5 U | 20 U | 4 U |
| cis-1,3-Dichloropropene | 4.7 U | 1 U | 1 U | 4.7 U | 4 U | 1 U | 4.7 U | 50 U | 2 U | 2.4 U | 20 U | 4 U |
| trans-1,3-Dichloropropene | 4.3 U | 1 U | 1 U | 4.3 U | 4 U | 1 U | 4.3 U | 50 U | 2 U | 2.2 U | 20 U | 4 U |
| Ethylbenzene | 6 U | 1 U | 1 U | 6 U | 4 U | 1 U | 6 U | 50 U | 2 U | 3 U | 20 U | 4 U |
| Freon 113 | 19 U | 5 U | 5 U | 19 U | 20 U | 5 U | 19 U | 250 U | 10 U | 9.7 U | 100 U | 20 U |
| 2-Hexanone | 20 U | 5 U | 5 U | 20 U | 20 U | 5 U | 20 U | 250 U | 10 U | 10 U | 100 U | 20 U |
| Isopropylbenzene | 6.5 U | 1 U | 1 U | 6.5 U | 4 U | 1 U | 6.5 U | 50 U | 2 U | 3.2 U | 20 U | 4 U |
| Methyl Acetate | 8 U | 5 U | 5 U | 8 U | 20 U | 5 U | 8 U | 250 U | 10 U | 4 U | 100 U | 20 U |
| Methylcyclohexane | 6 U | 5 U | 5 U | 6 U | 20 U | 5 U | 6 U | 250 U | 10 U | 3 U | 100 U | 20 U |
| Methyl Tert Butyl Ether | 5.1 U | 1 U | 1 U | 5.1 U | 4 U | 1 U | 5.1 U | 50 U | 2 U | 2.5 U | 20 U | 4 U |
| 4-Methyl-2-pentanone (MIBK) | 19 U | 5 U | 5 U | 19 U | 20 U | 5 U | 19 U | 250 U | 10 U | 9.3 U | 100 U | 20 U |
| Methylene chloride | 10 U | 2 U | 2 U | 10 U | 8 U | 2 U | 10 U | 100 U | 4 U | 5 U | 40 U | 8 U |
| Styrene | 7 U | 1 U | 1 U | 7 U | 4 U | 1 U | 7 U | 50 U | 2 U | 3.5 U | 20 U | 4 U |
| 1,1,2,2-Tetrachloroethane | 6.5 U | 1 U | 1 U | 6.5 U | 4 U | 1 U | 6.5 U | 50 U | 2 U | 3.3 U | 20 U | 4 U |
| Tetrachloroethene | 9 U | 1 U | 1 U | 9 U | 4 U | 1 U | 9 U | 50 U | 2 U | 4.5 U | 20 U | 4 U |
| Toluene | 5.3 U | 1 U | 1 U | 5.3 U | 4 U | 1 U | 5.3 U | 50 U | 2 U | 2.7 U | 20 U | 4 U |
| 1,2,4-Trichlorobenzene | 5 U | 1 U | 1 U | 5 U | 4 U | 1 U | 5 U | 50 U | 2 U | 2.5 U | 20 U | 4 U |
| 1,1,1-Trichloroethane | 5.4 U | 1 U | 1 U | 5.4 U | 4 U | 1 U | 5.4 U | 50 U | 2 U | 2.7 U | 20 U | 4 U |
| 1,1,2-Trichloroethane | 5.3 U | 1 U | 1 U | 5.3 U | 4 U | 1 U | 5.3 U | 50 U | 2 U | 2.7 U | 20 U | 4 U |
| Trichloroethene | 556 | 49.9 | 33.6 | 2,350 | 589 | 70.8 | 3,380 | 1,300 | 960 | 761 | 3,570 | 867 |
| Trichlorofluoromethane | 8.4 U | 2 U | 2 U | 8.4 U | 8 U | 2 U | 8.4 U | 100 U | 4 U | 4.2 U | 40 U | 8 U |
| Vinyl chloride | 55.2 | 15.5 | 31.1 | 7.9 U | 25 | 24.4 | 14.2 | 50 U | 36.2 | 3.9 U | 20 U | 4 U |
| Xylene (total) | 5.9 U | 1 U | 1 U | 5.9 U | 4 U | 1 | 5.9 U | 50 U | 2 U | 3 U | 20 U | 4 U |
| **Total VOCs (µg/L)** | **2,179** | **453** | **389** | **4,405** | **2,927** | **503** | **7,549** | **8,822** | **2,113** | **1,290** | **7,028** | **1,647** |

a/ Abbreviations: VOC = volatile organic compound; µg/l = micrograms per liter;
U = compound not detected, J = Indicates an estimated value

**Table 6**

**Extraction Well Aqueous Phase Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Sample ID: | EW-5-25B | | | EW-6-60C | | | EW-7-25B | | | EW-8-62C | | | EW-9R-72C | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample Date:** | 7/24/2020 | 10/7/2021 | 9/22/2022 | 7/24/2020 | 10/7/2021 | 9/22/2022 | 7/24/2020 | 10/7/2021 | 9/22/2022 | 7/24/2020 | 10/7/2021 | 9/22/2022 | 7/24/2020 | 10/7/2021 | 9/22/2022 |
| **VOCs (µg/L)** | | | | | | | | | | | | | | | |
| Acetone | 30 U | 40 U | 20 U | 60 U | 33.3 J | 20 U | 120 U | 100 U | 50 U | 30 U | 100 U | 100 U | 120 U | 100 U | 50 U |
| Benzene | 2.1 U | 2 U | 1 U | 4.3 U | 2.5 U | 1 U | 8.5 U | 5 U | 2.5 U | 2.1 U | 5 U | 5 U | 8.5 U | 5 U | 2.5 U |
| Bromodichloromethane | 2.9 U | 4 U | 2 U | 5.8 U | 5 U | 2 U | 12 U | 10 U | 5 U | 2.9 U | 10 U | 10 U | 12 U | 10 U | 5 U |
| Bromoform | 3.2 U | 4 U | 2 U | 6.3 U | 5 U | 2 U | 13 U | 10 U | 5 U | 3.2 U | 10 U | 10 U | 13 U | 10 U | 5 U |
| Bromomethane | 8.2 U | 8 U | 4 U | 16 U | 10 U | 4 U | 33 U | 20 U | 10 U | 10 | 20 U | 20 U | 33 U | 20 U | 10 U |
| 2-Butanone (MEK) | 34 U | 40 U | 20 U | 69 U | 50 U | 20 U | 140 U | 100 U | 50 U | 34 U | 100 U | 100 U | 140 U | 100 U | 50 U |
| Carbon disulfide | 4.8 U | 8 U | 4 U | 9.5 U | 10 U | 4 U | 19 U | 20 U | 10 U | 4.8 U | 20 U | 20 U | 19 U | 20 U | 10 U |
| Carbon tetrachloride | 2.8 U | 4 U | 2 U | 5.5 U | 5 U | 2 U | 11 U | 10 U | 5 U | 2.8 U | 10 U | 10 U | 11 U | 10 U | 5 U |
| Chlorobenzene | 2.8 U | 4 U | 2 U | 5.6 U | 5 U | 2 U | 11 U | 10 U | 5 U | 2.8 U | 10 U | 10 U | 11 U | 10 U | 5 U |
| Chloroethane | 3.6 U | 4 U | 2 U | 7.3 U | 5 U | 2 U | 15 U | 10 U | 5 U | 3.6 U | 10 U | 10 U | 15 U | 10 U | 5 U |
| Chloroform | 2.5 U | 4 U | 2 U | 5 U | 5 U | 2 U | 10 U | 10 U | 5 U | 2.5 U | 10 U | 10 U | 10 U | 10 U | 5 U |
| Chloromethane | 3.8 U | 4 U | 2 U | 7.6 U | 5 U | 2 U | 15 U | 10 U | 5 U | 3.8 U | 10 U | 10 U | 15 U | 10 U | 5 U |
| Cyclohexane | 3.9 U | 20 U | 10 U | 7.8 U | 25 U | 10 U | 16 U | 50 U | 25 U | 3.9 U | 50 U | 50 U | 16 U | 50 U | 25 U |
| 1,2-Dibromo-3-chloropropane | 6 U | 8 U | 4 U | 12 U | 10 U | 4 U | 24 U | 20 U | 10 U | 6 U | 20 U | 20 U | 24 U | 20 U | 10 U |
| Dibromochloromethane | 2.8 U | 4 U | 2 U | 5.6 U | 5 U | 2 U | 11 U | 10 U | 5 U | 2.8 U | 10 U | 10 U | 11 U | 10 U | 5 U |
| 1,2-Dibromoethane | 2.4 U | 4 U | 2 U | 4.8 U | 5 U | 2 U | 9.5 U | 10 U | 5 U | 2.4 U | 10 U | 10 U | 9.5 U | 10 U | 5 U |
| 1,2-Dichlorobenzene | 2.7 U | 4 U | 2 U | 5.3 U | 5 U | 2 U | 11 U | 10 U | 5 U | 2.7 U | 10 U | 10 U | 11 U | 10 U | 5 U |
| 1,3-Dichlorobenzene | 2.7 U | 4 U | 2 U | 5.4 U | 5 U | 2 U | 11 U | 10 U | 5 U | 2.7 U | 10 U | 10 U | 11 U | 10 U | 5 U |
| 1,4-Dichlorobenzene | 2.5 U | 4 U | 2 U | 5.1 U | 5 U | 2 U | 10 U | 10 U | 5 U | 2.5 U | 10 U | 10 U | 10 U | 10 U | 5 U |
| Dichlorodifluoromethane | 6.8 U | 8 U | 4 U | 14 U | 10 U | 4 U | 27 U | 20 U | 10 U | 6.8 U | 20 U | 20 U | 27 U | 20 U | 10 U |
| 1,1-Dichloroethane | 2.8 U | 4 U | 2 U | 5.7 U | 5 U | 2 U | 11 U | 10 U | 5 U | 2.8 U | 10 U | 10 U | 11 U | 10 U | 5 U |
| 1,2-Dichloroethane | 3 U | 4 U | 2 U | 6 U | 5 U | 2 U | 12 U | 10 U | 5 U | 3 U | 10 U | 10 U | 12 U | 10 U | 5 U |
| 1,1-Dichloroethene | 3 U | 4 U | 2 U | 5.9 U | 5 U | 2 U | 12 U | 10 U | 3.6 J | 3 U | 10 U | 10 U | 12 U | 10 U | 5 U |
| cis-1,2-Dichloroethene | 1,040 | 740 | 673 | 1,190 | 1,200 | 880 | 3,920 | 2,400 | 2,230 | 1,270 | 3,820 | 3,080 | 3,080 | 2,610 | 1,730 |
| trans-1,2-Dichloroethene | 33.3 | 25.9 | 5.5 | 10 | 7.5 | 3.7 | 33.8 | 89.4 | 24.4 | 6.3 | 30.5 | 15.8 | 48.6 | 25.1 | 5 |
| 1,2-Dichloropropane | 2.5 U | 4 U | 2 U | 5.1 U | 5 U | 2 U | 10 U | 10 U | 5 U | 2.5 U | 10 U | 10 U | 10 U | 10 U | 5 U |
| cis-1,3-Dichloropropene | 2.4 U | 4 U | 2 U | 4.7 U | 5 U | 2 U | 9.4 U | 10 U | 5 U | 2.4 U | 10 U | 10 U | 9.4 U | 10 U | 5 U |
| trans-1,3-Dichloropropene | 2.2 U | 4 U | 2 U | 4.3 U | 5 U | 2 U | 8.6 U | 10 U | 5 U | 2.2 U | 10 U | 10 U | 8.6 U | 10 U | 5 U |
| Ethylbenzene | 3 U | 4 U | 2 U | 6 U | 5 U | 2 U | 12 U | 10 U | 5 U | 3 U | 10 U | 10 U | 12 U | 10 U | 5 U |
| Freon 113 | 9.7 U | 20 U | 10 U | 19 U | 25 U | 10 U | 39 U | 50 U | 25 U | 9.7 U | 50 U | 50 U | 39 U | 50 U | 25 U |
| 2-Hexanone | 10 U | 20 U | 10 U | 20 U | 25 U | 10 U | 41 U | 50 U | 25 U | 10 U | 50 U | 50 U | 41 U | 50 U | 25 U |
| Isopropylbenzene | 3.2 U | 4 U | 2 U | 6.5 U | 5 U | 2 U | 13 U | 10 U | 5 U | 3.2 U | 10 U | 10 U | 13 U | 10 U | 5 U |
| Methyl Acetate | 4 U | 20 U | 10 U | 8 U | 25 U | 10 U | 16 U | 50 U | 25 U | 4 U | 50 U | 50 U | 16 U | 50 U | 25 U |
| Methylcyclohexane | 3 U | 20 U | 10 U | 6 U | 25 U | 10 U | 12 U | 50 U | 25 U | 3 U | 50 U | 50 U | 12 U | 50 U | 25 U |
| Methyl Tert Butyl Ether | 2.5 U | 4 U | 2 U | 5.1 U | 5 U | 2 U | 10 U | 10 U | 5 U | 2.5 U | 10 U | 10 U | 10 U | 10 U | 5 U |
| 4-Methyl-2-pentanone (MIBK) | 9.3 U | 20 U | 10 U | 19 U | 25 U | 10 U | 37 U | 50 U | 25 U | 9.3 U | 50 U | 50 U | 37 U | 50 U | 25 U |
| Methylene chloride | 5 U | 8 U | 4 U | 10 U | 10 U | 4 U | 20 U | 20 U | 10 U | 5 U | 20 U | 20 U | 20 U | 20 U | 10 U |
| Styrene | 3.5 U | 4 U | 2 U | 7 U | 5 U | 2 U | 14 U | 10 U | 5 U | 3.5 U | 10 U | 10 U | 14 U | 10 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 3.3 U | 4 U | 2 U | 6.5 U | 5 U | 2 U | 13 U | 10 U | 5 U | 3.3 U | 10 U | 10 U | 13 U | 10 U | 5 U |
| Tetrachloroethene | 4.5 U | 4 U | 2 U | 9 U | 5 U | 2 U | 18 U | 10 U | 5 U | 4.5 U | 10 U | 10 U | 18 U | 10 U | 5 U |
| Toluene | 2.7 U | 4 U | 2 U | 5.3 U | 5 U | 2 U | 11 U | 10 U | 5 U | 2.7 U | 10 U | 10 U | 11 U | 10 U | 5 U |
| 1,2,4-Trichlorobenzene | 2.5 U | 4 U | 2 U | 5 U | 5 U | 2 U | 10 U | 10 U | 5 U | 2.5 U | 10 U | 10 U | 10 U | 10 U | 5 U |
| 1,1,1-Trichloroethane | 2.7 U | 4 U | 2 U | 5.4 U | 5 U | 2 U | 11 U | 10 U | 5 U | 2.7 U | 10 U | 10 U | 11 U | 10 U | 5 U |
| 1,1,2-Trichloroethane | 2.7 U | 4 U | 2 U | 5.3 U | 5 U | 2 U | 11 U | 10 U | 5 U | 2.7 U | 10 U | 10 U | 11 U | 10 U | 5 U |
| Trichloroethene | 962 | 225 | 386 | 1,820 | 101 | 142 | 3,500 | 15.3 | 92.3 | 857 | 67 | 296 | 2,070 | 10 U | 28.2 |
| Trichlorofluoromethane | 4.2 U | 8 U | 4 U | 8.4 U | 10 U | 4 U | 17 U | 20 U | 10 U | 4.2 U | 20 U | 20 U | 17 U | 20 U | 10 U |
| Vinyl chloride | 8.2 | 4 U | 8.4 | 7.9 U | 26.2 | 4 | 25.4 | 10 U | 97.4 | 3.9 U | 13.8 | 48.5 | 16 U | 1,140 | 85.2 |
| Xylene (total) | 3 U | 4 U | 2 U | 5.9 U | 5 U | 2 U | 12 U | 10 U | 5 U | 3 U | 10 U | 10 U | 12 U | 10 U | 5 U |
| **Total VOCs (µg/L)** | **2,044** | **991** | **1,073** | **3,020** | **1,368** | **1,030** | **7,479** | **2,505** | **2,448** | **2,143** | **3,931** | **3,440** | **5,199** | **3,775** | **1,848** |

a/ Abbreviations: VOC = volatile or
U = compound not detected, J =

**Table 6**

**Extraction Well Aqueous Phase Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| **Sample ID:** | **EW-10-25B** | | | **EW-11-45C** | | | **EW-12-45C** | | |
|---|---|---|---|---|---|---|---|---|---|
| **Sample Date:** | 7/24/2020 | 10/7/2021 | 9/22/2022 | 7/24/2020 | 10/7/2021 | 9/22/2022 | 7/24/2020 | 10/7/2021 | 9/22/2022 |
| **VOCs (µg/L)** | | | | | | | | | |
| Acetone | 15.5 | 8.2 J | 10 U | 120 U | 1,000 U | 500 U | 30 U | 100 | 50 U |
| Benzene | 0.43 U | 0.5 U | 0.5 U | 8.5 U | 50 U | 25 U | 2.1 U | 2.5 U | 2.5 U |
| Bromodichloromethane | 0.58 U | 1 U | 1 U | 12 U | 100 U | 50 U | 2.9 U | 5 U | 5 U |
| Bromoform | 0.63 U | 1 U | 1 U | 13 U | 100 U | 50 U | 3.2 U | 5 U | 5 U |
| Bromomethane | 1.6 U | 2 U | 2 U | 33 U | 200 U | 100 U | 8.2 U | 10 U | 10 U |
| 2-Butanone (MEK) | 6.9 U | 10 U | 10 U | 140 U | 1,000 U | 500 U | 34 U | 50 U | 50 U |
| Carbon disulfide | 0.95 U | 2 U | 2 U | 19 U | 200 U | 100 U | 4.8 U | 2.6 J | 10 U |
| Carbon tetrachloride | 0.55 U | 1 U | 1 U | 11 U | 100 U | 50 U | 2.8 U | 5 U | 5 U |
| Chlorobenzene | 0.56 U | 1 U | 1 U | 11 U | 100 U | 50 U | 2.8 U | 5 U | 5 U |
| Chloroethane | 0.73 U | 1 U | 1 U | 15 U | 100 U | 50 U | 3.6 U | 5 U | 5 U |
| Chloroform | 0.5 U | 1 U | 1 U | 10 U | 100 U | 50 U | 2.5 U | 5.8 | 3.7 J |
| Chloromethane | 0.76 U | 1 U | 1 U | 15 U | 100 U | 50 U | 3.8 U | 5 U | 5 U |
| Cyclohexane | 0.78 U | 5 U | 5 U | 16 U | 500 U | 250 U | 3.9 U | 25 U | 25 U |
| 1,2-Dibromo-3-chloropropane | 1.2 U | 2 U | 2 U | 24 U | 200 U | 100 U | 6 U | 10 U | 10 U |
| Dibromochloromethane | 0.56 U | 1 U | 1 U | 11 U | 100 U | 50 U | 2.8 U | 5 U | 5 U |
| 1,2-Dibromoethane | 0.48 U | 1 U | 1 U | 9.5 U | 100 U | 50 U | 2.4 U | 5 U | 5 U |
| 1,2-Dichlorobenzene | 0.53 U | 1 U | 1 U | 11 U | 100 U | 50 U | 2.7 U | 5 U | 5 U |
| 1,3-Dichlorobenzene | 0.54 U | 1 U | 1 U | 11 U | 100 U | 50 U | 2.7 U | 5 U | 5 U |
| 1,4-Dichlorobenzene | 0.51 U | 1 U | 1 U | 10 U | 100 U | 50 U | 2.5 U | 5 U | 5 U |
| Dichlorodifluoromethane | 1.4 U | 2 U | 2 U | 27 U | 200 U | 100 U | 6.8 U | 10 U | 10 U |
| 1,1-Dichloroethane | 0.57 U | 1 U | 1 U | 11 U | 100 U | 50 U | 2.8 U | 5 U | 5 U |
| 1,2-Dichloroethane | 0.6 U | 1 U | 1 U | 12 U | 100 U | 50 U | 3 U | 5 U | 5 U |
| 1,1-Dichloroethene | 0.59 U | 1 U | 1 U | 12 U | 100 U | 49.9 J | 3 U | 3.2 J | 5 U |
| cis-1,2-Dichloroethene | 236 | 166 | 343 | 3,620 | 8,430 | 21,900 | 841 | 2,100 | 2,030 |
| trans-1,2-Dichloroethene | 6.3 | 4.3 | 3.6 | 59.3 | 100 U | 124 | 2.7 U | 6.4 | 4.7 J |
| 1,2-Dichloropropane | 0.51 U | 1 U | 1 U | 10 U | 100 U | 50 U | 2.5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 0.47 U | 1 U | 1 U | 9.4 U | 100 U | 50 U | 2.4 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 0.43 U | 1 U | 1 U | 8.6 U | 100 U | 50 U | 2.2 U | 5 U | 5 U |
| Ethylbenzene | 0.6 U | 1 U | 1 U | 12 U | 100 U | 50 U | 3 U | 5 U | 5 U |
| Freon 113 | 1.9 U | 5 U | 5 U | 39 U | 500 U | 250 U | 9.7 U | 25 U | 25 U |
| 2-Hexanone | 2 U | 5 U | 5 U | 41 U | 500 U | 250 U | 10 U | 25 U | 25 U |
| Isopropylbenzene | 0.65 U | 1 U | 1 U | 13 U | 100 U | 50 U | 3.2 U | 5 U | 5 U |
| Methyl Acetate | 0.8 U | 5 U | 5 U | 16 U | 500 U | 250 U | 4 U | 25 U | 25 U |
| Methylcyclohexane | 0.6 U | 5 U | 5 U | 12 U | 500 U | 250 U | 3 U | 25 U | 25 U |
| Methyl Tert Butyl Ether | 0.51 U | 1 U | 1 U | 10 U | 100 U | 50 U | 2.5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone (MIBK) | 1.9 U | 5 U | 5 U | 37 U | 500 U | 250 U | 9.3 U | 25 U | 25 U |
| Methylene chloride | 1 U | 2 U | 2 U | 20 U | 200 U | 100 U | 5 U | 10 U | 10 U |
| Styrene | 0.7 U | 1 U | 1 U | 14 U | 100 U | 50 U | 3.5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 0.65 U | 1 U | 1 U | 13 U | 100 U | 50 U | 3.3 U | 5 U | 5 U |
| Tetrachloroethene | 0.9 U | 1 U | 1 U | 18 U | 100 U | 50 U | 4.5 U | 5 U | 5 U |
| Toluene | 0.53 U | 1 U | 1 U | 11 U | 100 U | 50 U | 2.7 U | 5 U | 5 U |
| 1,2,4-Trichlorobenzene | 0.5 U | 1 U | 1 U | 10 U | 100 U | 50 U | 2.5 U | 5 U | 5 U |
| 1,1,1-Trichloroethane | 0.54 U | 1 U | 1 U | 11 U | 100 U | 50 U | 2.7 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 0.53 U | 1 U | 1 U | 11 U | 100 U | 50 U | 2.7 U | 5 U | 5 U |
| Trichloroethene | 98.2 | 63.2 | 124 | 6,420 | 13,600 | 26,600 | 220 | 5 U | 68.6 |
| Trichlorofluoromethane | 0.84 U | 2 U | 2 U | 17 U | 200 U | 100 U | 4.2 U | 10 U | 10 U |
| Vinyl chloride | 2.4 | 1 U | 4 | 16 U | 100 U | 587 | 3.9 U | 150 | 44.5 |
| Xylene (total) | 0.59 U | 1 U | 1 U | 12 U | 100 U | 50 U | 3 U | 5 U | 5 U |
| **Total VOCs (µg/L)** | **358** | **242** | **475** | **10,099** | **22,030** | **49,261** | **1,061** | **2,368** | **2,152** |

a/ Abbreviations: VOC = volatile or
U = compound not detected, J =

**Table 7**

**Extraction Well Vapor Phase Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Sample ID: | EW-1-62C | | | | | | EW-2-62C | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample Date: | 7/24/2020 | | 10/8/2021 | | 9/22/2022 | | 7/24/2020 | | 10/8/2021 | |
| | (ppbv) | (µg/m3) | (ppbv) | (µg/m$^3$) | (ppbv) | (µg/m3) | (ppbv) | (µg/m3) | (ppbv) | (µg/m$^3$) |
| **VOCs** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 U | 27 U | 0.4 U | 2.2 U | 0.4 U | 2.2 U | 5 U | 27 U | 0.4 U | 2.2 U |
| 1,1,2,2-Tetrachloroethane | 5 U | 34 U | 0.4 U | 2.7 U | 0.4 U | 2.7 U | 5 U | 34 U | 0.4 U | 2.7 U |
| 1,1,2-Trichloroethane | 5 U | 27 U | 0.4 U | 2.2 U | 0.4 U | 2.2 U | 5 U | 27 U | 0.4 U | 2.2 U |
| 1,1-Dichloroethane | 5 U | 20 U | 0.8 U | 3.2 U | 0.8 U | 3.2 U | 5 U | 20 U | 0.8 U | 3.2 U |
| 1,1-Dichloroethene | 16 | 62 | 0.16 U | 0.63 U | 0.2 U | 0.6 U | 5 U | 20 U | 1.3 | 5.2 |
| 1,2,4-Trichlorobenzene | 5 U | 37 U | 0.4 U | 3 U | 0.4 U | 3 U | 5 U | 37 U | 0.4 U | 2.6 U |
| 1,2,4-Trimethylbenzene | 5 U | 25 U | 0.38 J | 1.9 J | 0.8 U | 3.9 U | 5 U | 25 U | 0.8 U | 3.9 U |
| 1,2-Dibromoethane | 5 U | 38 U | 0.4 U | 3.1 U | 0.4 U | 3.1 U | 5 U | 38 U | 0.4 U | 3.1 U |
| 1,2-Dichlorobenzene | 5 U | 30 U | 0.16 U | 0.96 U | 0.2 U | 1 U | 5 U | 30 U | 0.16 U | 0.96 U |
| 1,2-Dichloroethane | 5 U | 20 U | 0.8 U | 3.2 U | 0.8 U | 3.2 U | 5 U | 20 U | 0.8 U | 3.2 U |
| 1,2-Dichloropropane | 5 U | 23 U | 0.8 U | 3.7 U | 0.8 U | 3.7 U | 5 U | 23 U | 0.8 U | 3.7 U |
| 1,3,5-Trimethylbenzene | 5 U | 25 U | 0.8 U | 3.9 U | 0.8 U | 3.9 U | 5 U | 25 U | 0.8 U | 3.9 U |
| 1,3-butadiene | 5 U | 11 U | 0.8 U | 1.8 U | 0.8 U | 1.8 U | 5 U | 11 U | 0.8 U | 1.8 U |
| 1,3-Dichlorobenzene | 5 U | 30 U | 0.4 U | 2.4 U | 0.4 U | 2.4 U | 5 U | 30 U | 0.4 U | 2.4 U |
| 1,4-Dichlorobenzene | 5 U | 30 U | 0.4 U | 2.4 U | 0.4 U | 2.4 U | 5 U | 30 U | 0.4 U | 2.4 U |
| 1,4-Dioxane | 10 U | 36 U | 0.8 U | 2.9 U | 0.8 U | 2.9 U | 10 U | 36 U | 0.8 U | 2.9 U |
| 2,2,4-trimethylpentane | 5 U | 23 U | 0.8 U | 3.7 U | 0.8 U | 3.7 U | 5 U | 23 U | 0.8 U | 3.7 U |
| 2-chlorotoluene | - | - | 0.8 U | 4.1 U | 0.8 U | 4.1 U | - | - | 0.8 U | 4.1 U |
| 4-ethyltoluene | 5 U | 25 U | 0.8 U | 3.9 U | 0.8 U | 3.9 U | 5 U | 25 U | 0.8 U | 3.9 U |
| Acetone | 10 U | 24 U | 40.4 | 96 | 3.2 | 7.6 | 10 U | 24 U | 8.2 | 19 |
| Allyl chloride | 5 U | 16 U | 0.8 U | 2.5 U | 0.8 U | 2.5 U | 5 U | 16 U | 0.8 U | 2.5 U |
| Benzene | 5 U | 16 U | 1.7 | 5.4 | 0.8 U | 2.6 U | 5 U | 16 U | 0.97 | 3.1 |
| Benzyl chloride | 5 U | 29 U | 0.8 U | 4.1 U | 0.8 U | 4.1 U | 5 U | 29 U | 0.8 U | 4.1 U |
| Bromodichloromethane | 5 U | 33 U | 0.4 U | 2.7 U | 0.4 U | 2.7 U | 5 U | 33 U | 0.4 U | 2.7 U |
| Bromoform | 5 U | 52 U | 0.16 U | 1.7 U | 0.2 U | 1.7 U | 5 U | 52 U | 0.16 U | 1.7 U |
| Bromomethane | 5 U | 19 U | 0.56 J | 2.2 J | 0.8 U | 3.1 U | 5 U | 19 U | 0.8 U | 3.1 U |
| Carbon disulfide | 5 U | 16 U | 0.41 J | 1.3 J | 0.8 U | 2.5 U | 5 U | 16 U | 0.8 U | 2.5 U |
| Carbon tetrachloride | 5 U | 31 U | 0.16 U | 1 U | 0.2 U | 1 U | 5 U | 31 U | 0.16 U | 1 U |
| Chlorobenzene | 5 U | 23 U | 0.8 U | 3.7 U | 0.8 U | 3.7 U | 5 U | 23 U | 0.8 U | 3.7 U |
| Chloroethane | 5 U | 13 U | 0.8 U | 2.1 U | 0.8 U | 2.1 U | 5 U | 13 U | 0.8 U | 2.1 U |
| Chloroform | 5 U | 24 U | 0.8 U | 3.9 U | 0.8 U | 3.9 U | 5 U | 24 U | 0.8 U | 3.9 U |
| Chloromethane | 5 U | 10 U | 1.3 | 2.7 | 0.8 U | 1.7 U | 5 U | 10 U | 0.54 J | 1.1 J |
| cis-1,2-Dichloroethene | 1 | 3,900 | 18.6 | 73.7 | 1.6 | 6.3 | 290 | 1,100 | 118 | 468 |
| cis-1,3-Dichloropropene | 5 U | 23 U | 0.8 U | 3.6 U | 0.8 U | 3.6 U | 5 U | 23 U | 0.8 U | 3.6 U |
| Cyclohexane | 5 U | 17 U | 0.8 U | 2.8 U | 0.8 U | 2.8 U | 5 U | 17 U | 0.8 U | 2.8 U |
| Dibromochloromethane | 5 U | 43 U | 0.4 U | 3.4 U | 0.4 U | 3.1 U | 5 U | 43 U | 0.4 U | 3.4 U |
| Ethanol | - | - | 23.2 | 43.7 | 2 U | 3.8 U | - | - | 5.1 | 9.6 |
| Ethyl acetate | 10 U | 36 U | 45.4 | 163 | 0.8 U | 2.9 U | 10 U | 36 U | 22 | 79.2 |
| Ethylbenzene | 5 U | 22 U | 0.64 J | 2.8 J | 0.8 U | 3.5 U | 5 U | 22 U | 0.8 U | 3.5 U |
| Freon 11 | 5 U | 28 U | 0.53 | 3 | 0.5 | 2.9 | 5 U | 28 U | 0.4 U | 2.2 U |
| Freon 113 | 5 U | 38 U | 0.4 U | 3.1 U | 0.4 U | 3.1 U | 5 U | 38 U | 0.4 U | 3.1 U |
| Freon 114 | 5 U | 35 U | 0.4 U | 2.8 U | 0.4 U | 2.8 U | 5 U | 35 U | 0.4 U | 2.8 U |
| Freon 12 | 5 U | 25 U | 0.88 | 4.4 | 0.4 J | 2 J | 5 U | 25 U | 0.41 J | 2 J |
| Heptane | 5 U | 20 U | 0.97 | 4 | 0.8 U | 3.3 U | 5 U | 20 U | 0.8 U | 0.29 U |
| Hexachloro-1,3-butadiene | 5 U | 53 U | 0.36 U | 3.8 U | 0.4 U | 3.8 U | 5 U | 53 U | 0.36 U | 3.8 U |
| Hexane | 5 U | 18 U | 0.81 | 2.9 | 0.8 U | 2.8 U | 5 U | 18 U | 0.8 U | 2.8 U |
| Isopropyl alcohol | 5 U | 12 U | 3.6 | 8.8 | 0.8 U | 2 U | 5 U | 12 U | 0.8 U | 2 U |
| m&p-Xylene | 10 U | 43 U | 2.2 | 9.6 | 0.8 U | 3.5 U | 10 U | 43 U | 0.51 J | 2.2 J |
| Methyl Butyl Ketone | 10 U | 41 U | 0.8 U | 3.3 U | 0.8 U | 3.3 U | 10 U | 41 U | 0.8 U | 3.3 U |
| Methyl Ethyl Ketone | 10 U | 29 U | 45.3 | 134 | 0.8 U | 2.4 U | 10 U | 29 U | 7.5 | 22 |
| Methyl Isobutyl Ketone | 10 U | 41 U | 0.69 J | 2.8 J | 0.8 U | 3.3 U | 10 U | 41 U | 0.8 U | 3.3 U |
| Methyl tert-butyl ether | 5 U | 18 U | 0.8 U | 2.9 U | 0.8 U | 2.9 U | 5 U | 18 U | 0.8 U | 2.9 U |
| Methylene chloride | 5 U | 17 U | 0.8 U | 2.8 U | 1.5 | 5.2 | 5 U | 17 U | 0.8 U | 2.8 U |
| Methylmethacrylate | - | - | 0.8 U | 3.3 U | 0.8 U | 3.3 U | - | - | 0.8 U | 3.3 U |
| o-Xylene | 5 U | 22 U | 0.83 | 3.6 | 0.8 U | 3.5 U | 5 U | 22 U | 0.8 U | 3.5 U |
| Propylene | 5 U | 8.6 U | 2 U | 3.4 U | 2 U | 3.4 U | 5 U | 8.6 U | 2 U | 3.4 U |
| Styrene | 5 U | 21 U | 0.8 U | 3.4 U | 0.8 U | 3.4 U | 5 U | 21 U | 0.8 U | 3.4 U |
| Tertiary Butyl Alcohol | - | - | 9.9 | 30 | 0.8 U | 2.4 U | - | - | 1.4 | 4.2 |
| Tetrachloroethene | 5 U | 34 U | 0.57 | 3.9 | 0.2 U | 1.1 U | 5 U | 34 U | 0.16 U | 1.1 U |
| Tetrahydrofuran | 13 | 39 | 0.8 U | 2.4 U | 0.8 U | 2.4 U | 5 U | 15 U | 0.8 U | 2.4 U |
| Toluene | 5 U | 19 U | 10.1 | 38.1 | 0.8 U | 3 U | 5 U | 19 U | 1.3 | 4.9 |
| trans-1,2-Dichloroethene | 27 | 110 | 0.8 U | 3.2 U | 0.8 U | 3.2 U | 7.1 | 28 | 2.8 | 11 |
| trans-1,3-Dichloropropene | 5 U | 23 U | 0.8 U | 3.6 U | 0.8 U | 3.6 U | 5 U | 23 U | 0.8 U | 3.6 U |
| Trichloroethene | 710 | 3,800 | 4.1 | 22 | 0.2 U | 0.9 U | 0.56 | 3,000 | 93.7 | 504 |
| Vinyl acetate | 5 U | 18 U | 0.8 U | 2.8 U | 0.8 U | 2.8 U | 5 U | 18 U | 0.8 U | 2.8 U |
| Vinyl Bromide | 5 U | 22 U | 0.8 U | 3.5 U | 0.8 U | 3.5 U | 5 U | 22 U | 0.8 U | 3.5 U |
| Vinyl chloride | 600 | 1,500 | 6.8 | 17 | 1.3 | 3.3 | 9.3 | 24 | 12.8 | 32.7 |
| **Total VOCs** | **1,367** | **9,411** | **220** | **677** | **9** | **202** | **307** | **4,152** | **277** | **1,168** |

a/ Abbreviations: VOC = volatile organic compound; ppbv = parts per billion by volume;
mg/m$^3$ = milligrams per cubic meter; U = compound not detected.
- = Not sampled

**Table 7**

**Extraction Well Vapor Phase Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Sample ID: | EW-2-62C | | EW-3-60C | | | | | | EW-4-25B | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample Date: | 9/22/2022 | | 7/24/2020 | | 10/8/2021 | | 9/22/2022 | | 7/24/2020 | |
| | (ppbv) | (µg/m3) | (ppbv) | (µg/m3) | (ppbv) | (µg/m$^3$) | (ppbv) | (µg/m3) | (ppbv) | (µg/m3) |
| **VOCs** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 0.4 U | 2.2 U | 5 U | 27 U | 0.4 U | 2.2 U | 2 U | 11 U | 5 U | 27 U |
| 1,1,2,2-Tetrachloroethane | 0.4 U | 2.7 U | 5 U | 34 U | 0.4 U | 2.7 U | 2 U | 14 U | 5 U | 34 U |
| 1,1,2-Trichloroethane | 0.4 U | 2.2 U | 5 U | 27 U | 0.4 U | 2.2 U | 2 U | 11 U | 5 U | 27 U |
| 1,1-Dichloroethane | 0.8 U | 3.2 U | 5 U | 20 U | 0.8 U | 3.2 U | 4 U | 16 U | 5 U | 20 U |
| 1,1-Dichloroethene | 0.16 U | 0.63 U | 5 U | 20 U | 0.8 U | 3.2 U | 7.1 | 28 U | 5 U | 20 U |
| 1,2,4-Trichlorobenzene | 0.4 U | 3 U | 5 U | 37 U | 0.4 U | 2.6 U | 2 U | 15 U | 5 U | 37 U |
| 1,2,4-Trimethylbenzene | 0.8 U | 3.9 U | 5 U | 25 U | 0.8 U | 3.9 U | 4 U | 20 U | 5 U | 25 U |
| 1,2-Dibromoethane | 0.4 U | 3.1 U | 5 U | 38 U | 0.4 U | 3.1 U | 2 U | 15 U | 5 U | 38 U |
| 1,2-Dichlorobenzene | 0.16 U | 9.6 U | 5 U | 30 U | 0.16 U | 0.96 U | 0.8 U | 4.8 U | 5 U | 30 U |
| 1,2-Dichloroethane | 0.8 U | 3.2 U | 5 U | 20 U | 0.8 U | 3.2 U | 4 U | 16 U | 5 U | 20 U |
| 1,2-Dichloropropane | 0.8 U | 3.7 U | 5 U | 23 U | 0.8 U | 3.7 U | 4 U | 18 U | 5 U | 23 U |
| 1,3,5-Trimethylbenzene | 0.8 U | 3.9 U | 5 U | 25 U | 0.8 U | 3.9 U | 4 U | 20 U | 5 U | 25 U |
| 1,3-butadiene | 0.8 U | 1.8 U | 5 U | 11 U | 0.8 U | 1.8 U | 4 U | 8.8 U | 5 U | 11 U |
| 1,3-Dichlorobenzene | 0.4 U | 2.4 U | 5 U | 30 U | 0.4 U | 2.4 U | 2 U | 12 U | 5 U | 30 U |
| 1,4-Dichlorobenzene | 0.4 U | 2.4 U | 5 U | 30 U | 0.4 U | 2.4 U | 2 U | 12 U | 5 U | 30 U |
| 1,4-Dioxane | 0.8 U | 2.9 U | 10 U | 36 U | 0.8 U | 2.9 U | 4 U | 14 U | 10 U | 36 U |
| 2,2,4-trimethylpentane | 0.8 U | 3.7 U | 5 U | 23 U | 0.8 U | 3.7 U | 4 U | 19 U | 5 U | 23 U |
| 2-chlorotoluene | 0.8 U | 4.1 U | - | - | 0.8 U | 4.1 U | 4 U | 21 U | - | - |
| 4-ethyltoluene | 0.8 U | 3.9 U | 5 U | 25 U | 0.8 U | 3.9 U | 4 U | 20 U | 5 U | 25 U |
| Acetone | 2.6 | 6.2 | 10 U | 24 U | 8.2 | 19 | 4 | 9.5 | 10 U | 24 U |
| Allyl chloride | 0.8 U | 2.5 U | 5 U | 16 U | 0.8 U | 2.5 U | 4 U | 13 U | 5 U | 16 U |
| Benzene | 0.8 U | 2.6 U | 5 U | 16 U | 0.8 U | 2.6 U | 4 U | 13 U | 5 U | 16 U |
| Benzyl chloride | 0.8 U | 4.1 U | 5 U | 29 U | 0.8 U | 4.1 U | 4 U | 21 U | 5 U | 29 U |
| Bromodichloromethane | 0.4 U | 2.7 U | 5 U | 33 U | 0.4 U | 2.7 U | 2 U | 13 U | 5 U | 33 U |
| Bromoform | 0.16 U | 1.7 U | 5 U | 52 U | 0.47 | 4.9 | 0.8 U | 8.3 U | 5 U | 52 U |
| Bromomethane | 0.8 U | 3.1 U | 5 U | 19 U | 0.54 J | 2.1 J | 4 U | 16 U | 5 U | 19 U |
| Carbon disulfide | 0.8 U | 2.5 U | 5 U | 16 U | 0.8 U | 2.5 U | 4 U | 12 U | 5 U | 16 U |
| Carbon tetrachloride | 0.16 U | 1 U | 5 U | 31 U | 0.16 U | 1 U | 0.8 U | 5 U | 5 U | 31 U |
| Chlorobenzene | 0.8 U | 3.7 U | 5 U | 23 U | 0.8 U | 3.7 U | 4 U | 18 U | 5 U | 23 U |
| Chloroethane | 0.8 U | 2.1 U | 5 U | 13 U | 0.8 U | 2.1 U | 4 U | 11 U | 5 U | 13 U |
| Chloroform | 0.8 U | 3.9 U | 5 U | 24 U | 0.8 U | 3.9 U | 4 U | 20 U | 5 U | 24 U |
| Chloromethane | 0.8 U | 1.7 U | 5 U | 10 U | 0.57 J | 1.2 J | 4 U | 8.3 U | 5 U | 10 U |
| cis-1,2-Dichloroethene | 29.6 | 117 | 120 | 480 | 0.16 U | 0.63 U | 1,310 | 5,190 | 280 | 1,100 |
| cis-1,3-Dichloropropene | 0.8 U | 3.6 U | 5 U | 23 U | 0.8 U | 3.6 U | 4 U | 18 U | 5 U | 23 U |
| Cyclohexane | 0.8 U | 2.8 U | 5 U | 17 U | 0.8 U | 2.8 U | 4 U | 14 U | 5 U | 17 U |
| Dibromochloromethane | 0.4 U | 3.4 U | 5 U | 43 U | 0.4 U | 3.4 U | 2 U | 17 U | 5 U | 43 U |
| Ethanol | 3.4 | 6.4 | - | - | 8 | 15 | 10 U | 19 U | - | - |
| Ethyl acetate | 90.3 | 325 | 10 U | 36 U | 9.7 | 35 | 17.1 | 61.5 | 10 U | 36 U |
| Ethylbenzene | 0.8 U | 3.5 U | 5 U | 22 U | 0.8 U | 3.5 U | 4 U | 17 U | 5 U | 22 U |
| Freon 11 | 0.4 U | 2.2 U | 5 U | 28 U | 0.4 U | 2.2 U | 2 U | 11 U | 5 U | 28 U |
| Freon 113 | 0.4 U | 3.1 U | 5 U | 38 U | 0.4 U | 3.1 U | 2 U | 15 U | 5 U | 38 U |
| Freon 114 | 0.4 U | 2.8 U | 5 U | 35 U | 0.4 U | 2.8 U | 2 U | 14 U | 5 U | 35 U |
| Freon 12 | 0.43 J | 2.1 J | 5 U | 25 U | 0.41 J | 2 J | 4 U | 20 U | 5 U | 25 U |
| Heptane | 0.8 U | 3.3 U | 5 U | 20 U | 0.8 U | 0.29 U | 4 U | 16 U | 5 U | 20 U |
| Hexachloro-1,3-butadiene | 3.6 U | 3.8 U | 5 U | 53 U | 0.36 U | 3.8 U | 1.8 U | 19 U | 5 U | 53 U |
| Hexane | 0.8 U | 2.8 U | 5 U | 18 U | 0.8 U | 2.8 U | 4 U | 14 U | 5 U | 18 U |
| Isopropyl alcohol | 1.1 | 2.7 | 5 U | 12 U | 0.8 U | 2 U | 4 U | 9.8 U | 5 U | 12 U |
| m&p-Xylene | 0.8 U | 3.5 U | 10 U | 43 U | 0.8 U | 3.5 U | 4 U | 17 U | 10 U | 43 U |
| Methyl Butyl Ketone | 0.8 U | 3.3 U | 10 U | 41 U | 0.8 U | 3.3 U | 4 U | 16 U | 10 U | 41 U |
| Methyl Ethyl Ketone | 0.88 | 2.6 | 10 U | 29 U | 5.5 | 16 | 4 U | 12 U | 10 U | 29 U |
| Methyl Isobutyl Ketone | 0.8 U | 3.3 U | 10 U | 41 U | 0.8 U | 3.3 U | 4 U | 16 U | 10 U | 41 U |
| Methyl tert-butyl ether | 0.8 U | 2.9 U | 5 U | 18 U | 0.8 U | 2.9 U | 4 U | 14 U | 5 U | 18 U |
| Methylene chloride | 0.79 J | 2.7 J | 5 U | 17 U | 0.8 U | 2.8 U | 4 U | 14 U | 5 U | 17 U |
| Methylmethacrylate | 0.8 U | 3.3 U | - | - | 0.8 U | 3.3 U | 4 U | 16 U | - | - |
| o-Xylene | 0.8 U | 3.5 U | 5 U | 22 U | 0.8 U | 3.5 U | 4 U | 17 U | 5 U | 22 U |
| Propylene | 2 U | 3.4 U | 5 U | 8.6 U | 2 U | 3.4 U | 10 U | 17 U | 5 U | 8.6 U |
| Styrene | 0.8 U | 3.4 U | 5 U | 21 U | 0.8 U | 3.4 U | 4 U | 17 U | 5 U | 21 U |
| Tertiary Butyl Alcohol | 0.8 U | 2.4 U | - | - | 1.2 | 3.6 | 4 U | 12 U | - | - |
| Tetrachloroethene | 0.16 U | 1.1 U | 5 U | 34 U | 0.16 U | 1.1 U | 0.73 J | 5 J | 5 U | 34 U |
| Tetrahydrofuran | 0.8 U | 2.4 U | 5 U | 15 U | 0.8 U | 2.4 U | 4 U | 12 U | 5 U | 15 U |
| Toluene | 1.8 | 6.8 | 5 U | 19 U | 0.77 J | 2.9 J | 4 U | 15 U | 5 U | 19 U |
| trans-1,2-Dichloroethene | 0.8 U | 3.2 U | 5 U | 20 U | 0.8 U | 3.2 U | 18 | 71.4 | 5 U | 20 U |
| trans-1,3-Dichloropropene | 0.8 U | 3.6 | 5 U | 23 U | 0.8 U | 3.6 U | 4 U | 18 U | 5 U | 23 U |
| Trichloroethene | 35.3 | 190 | 360 | 2,000 | 0.27 | 1.5 | 992 | 5,330 | 750 | 4,000 |
| Vinyl acetate | 0.98 | 3.4 | 5 U | 18 U | 0.8 U | 2.8 U | 4 U | 14 U | 5 U | 18 U |
| Vinyl Bromide | 0.8 U | 3.5 U | 5 U | 22 U | 0.8 U | 3.5 U | 4 U | 17 U | 5 U | 22 U |
| Vinyl chloride | 1.3 | 3.3 | 9.5 | 24 | 0.16 U | 0.41 U | 279 | 713 | 5 U | 13 U |
| **Total VOCs** | **168** | **672** | **490** | **2,504** | **36** | **103** | **2,628** | **11,380** | **1,030** | **5,100** |

**Table 7**

**Extraction Well Vapor Phase Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Sample ID: | EW-4-25B | | | | EW-5-25B | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample Date: | 10/8/2021 | | 9/22/2022 | | 7/24/2020 | | 10/8/2021 | | 9/22/2022 | |
| | (ppbv) | (µg/m$^3$) | (ppbv) | (µg/m3) | (ppbv) | (µg/m3) | (ppbv) | (µg/m$^3$) | (ppbv) | (µg/m3) |
| **VOCs** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 0.4 U | 2.2 U | 8 U | 44 U | 5 U | 27 U | 0.4 U | 2.2 U | 4 U | 22 U |
| 1,1,2,2-Tetrachloroethane | 0.4 U | 2.7 U | 8 U | 55 U | 5 U | 34 U | 0.4 U | 2.7 U | 4 U | 27 U |
| 1,1,2-Trichloroethane | 0.4 U | 2.2 U | 8 U | 44 U | 5 U | 27 U | 0.4 U | 2.2 U | 4 U | 22 U |
| 1,1-Dichloroethane | 0.8 U | 3.2 U | 16 U | 65 U | 5 U | 20 U | 0.8 U | 3.2 U | 8 U | 32 U |
| 1,1-Dichloroethene | 3.2 | 13 | 3.2 U | 13 U | 5 U | 20 U | 2.1 | 8.3 | 10.2 | 40.4 |
| 1,2,4-Trichlorobenzene | 0.4 U | 2.6 U | 8 U | 59 U | 5 U | 37 U | 0.4 U | 2.6 U | 4 U | 30 U |
| 1,2,4-Trimethylbenzene | 0.8 U | 3.9 U | 16 U | 79 U | 5 U | 25 U | 0.8 U | 3.9 U | 8 U | 39 U |
| 1,2-Dibromoethane | 0.4 U | 3.1 U | 8 U | 61 U | 5 U | 38 U | 0.4 U | 3.1 U | 4 U | 31 U |
| 1,2-Dichlorobenzene | 0.16 U | 0.96 U | 3.2 U | 19 U | 5 U | 30 U | 0.16 U | 0.96 U | 1.6 U | 9.6 U |
| 1,2-Dichloroethane | 0.8 U | 3.2 U | 16 U | 65 U | 5 U | 20 U | 0.8 U | 3.2 U | 8 U | 32 U |
| 1,2-Dichloropropane | 0.8 U | 3.7 U | 16 U | 74 U | 5 U | 23 U | 0.8 U | 3.7 U | 8 U | 37 U |
| 1,3,5-Trimethylbenzene | 0.8 U | 3.9 U | 16 U | 79 U | 5 U | 25 U | 0.8 U | 3.9 U | 8 U | 39 U |
| 1,3-butadiene | 0.8 U | 1.8 U | 16 U | 35 U | 5 U | 11 U | 0.8 U | 1.8 U | 8 U | 18 U |
| 1,3-Dichlorobenzene | 0.4 U | 2.4 U | 8 U | 48 U | 5 U | 30 U | 0.4 U | 2.4 U | 4 U | 24 U |
| 1,4-Dichlorobenzene | 0.4 U | 2.4 U | 8 U | 48 U | 5 U | 30 U | 0.4 U | 2.4 U | 4 U | 24 U |
| 1,4-Dioxane | 0.8 U | 2.9 U | 16 U | 58 U | 10 U | 36 U | 0.8 U | 2.9 U | 8 U | 29 U |
| 2,2,4-trimethylpentane | 0.8 U | 3.7 U | 16 U | 75 U | 5 U | 23 U | 0.8 U | 3.7 U | 8 U | 37 U |
| 2-chlorotoluene | 0.8 U | 4.1 U | 16 U | 83 U | - | - | 0.8 U | 4.1 U | 8 U | 41 U |
| 4-ethyltoluene | 0.8 U | 3.9 U | 16 U | 79 U | 5 U | 25 U | 0.8 U | 3.9 U | 8 U | 39 U |
| Acetone | 17.6 | 41.8 | 16 U | 38 U | 10 U | 24 U | 21.6 | 51.3 | 8 U | 19 U |
| Allyl chloride | 0.8 U | 2.5 U | 16 U | 50 U | 5 U | 16 U | 0.8 U | 2.5 U | 8 U | 25 U |
| Benzene | 0.86 | 2.7 | 16 U | 51 U | 5 U | 16 U | 0.8 | 2.6 | 8 U | 26 U |
| Benzyl chloride | 0.8 U | 4.1 U | 16 U | 82 U | 5 U | 29 U | 0.8 U | 4.1 U | 8 U | 41 U |
| Bromodichloromethane | 0.4 U | 2.7 U | 8 U | 54 U | 5 U | 33 U | 0.4 U | 2.7 U | 4 U | 27 U |
| Bromoform | 0.16 U | 1.7 U | 3.2 U | 33 U | 5 U | 52 U | 0.16 U | 1.7 U | 1.6 U | 17 U |
| Bromomethane | 0.8 U | 3.1 U | 16 U | 62 U | 5 U | 19 U | 0.8 U | 3.1 U | 8 U | 31 U |
| Carbon disulfide | 0.8 U | 2.5 U | 16 U | 50 U | 5 U | 16 U | 2.2 | 6.9 | 8 U | 25 U |
| Carbon tetrachloride | 0.16 U | 1 U | 3.2 U | 20 U | 5 U | 31 U | 0.16 U | 1 U | 1.6 U | 10 U |
| Chlorobenzene | 0.8 U | 3.7 U | 16 U | 74 U | 5 U | 23 U | 0.8 U | 3.7 U | 8 U | 37 U |
| Chloroethane | 0.8 U | 2.1 U | 16 U | 42 U | 5 U | 13 U | 0.8 U | 2.1 U | 8 U | 21 U |
| Chloroform | 0.8 U | 3.9 U | 16 U | 78 U | 5 U | 24 U | 0.8 U | 3.9 U | 8 U | 39 U |
| Chloromethane | 0.61 J | 1.3 J | 16 U | 33 U | 5 U | 10 U | 0.71 J | 1.5 J | 8 U | 17 U |
| cis-1,2-Dichloroethene | 560 | 2,220 | 1,330 | 5,270 | 60 | 240 | 350 | 1,390 | 1,490 | 5,910 |
| cis-1,3-Dichloropropene | 0.8 U | 3.6 U | 16 U | 73 U | 5 U | 23 U | 0.8 U | 3.6 U | 8 U | 36 U |
| Cyclohexane | 0.8 U | 2.8 U | 16 U | 55 U | 5 U | 17 U | 0.8 U | 2.8 U | 8 U | 28 U |
| Dibromochloromethane | 0.4 U | 3.4 U | 8 U | 68 U | 5 U | 43 U | 0.4 U | 3.4 U | 4 U | 34 U |
| Ethanol | 8.8 | 17 | 40 U | 75 U | - | - | 7.8 | 15 | 20 U | 38 U |
| Ethyl acetate | 14.3 | 51.5 | 21.6 | 77.7 | 10 U | 36 U | 11.7 | 42.1 | 8 U | 29 U |
| Ethylbenzene | 0.8 U | 3.5 U | 16 U | 69 U | 5 U | 22 U | 0.8 U | 3.5 U | 8 U | 35 U |
| Freon 11 | 0.4 U | 2.2 U | 8 U | 45 U | 5 U | 28 U | 0.4 U | 2.2 U | 4 U | 22 U |
| Freon 113 | 0.4 U | 3.1 U | 8 U | 61 U | 5 U | 38 U | 0.4 U | 3.1 U | 4 U | 31 U |
| Freon 114 | 0.4 U | 2.8 U | 8 U | 56 U | 5 U | 35 U | 0.4 U | 2.8 U | 4 U | 28 U |
| Freon 12 | 0.44 J | 2.2 J | 16 U | 79 U | 5 U | 25 U | 0.44 J | 2.2 J | 8 U | 40 U |
| Heptane | 0.6 J | 2.5 J | 16 U | 66 U | 5 U | 20 U | 0.54 J | 2.2 J | 8 U | 33 U |
| Hexachloro-1,3-butadiene | 0.36 U | 3.8 U | 7.2 U | 77 U | 5 U | 53 U | 0.36 U | 3.8 U | 3.6 U | 38 U |
| Hexane | 0.8 U | 2.8 U | 16 U | 56 U | 5 U | 18 U | 0.8 U | 2.8 U | 8 U | 28 U |
| Isopropyl alcohol | 1.6 | 3.9 | 16 U | 39 U | 5 U | 12 U | 1.3 | 3.2 | 8 U | 20 U |
| m&p-Xylene | 0.81 | 3.5 | 16 U | 69 U | 10 U | 43 U | 1 | 4.3 | 8 U | 35 U |
| Methyl Butyl Ketone | 0.8 U | 3.3 U | 16 U | 65 U | 10 U | 41 U | 6 | 25 | 8 U | 33 U |
| Methyl Ethyl Ketone | 22.4 | 66.1 | 16 U | 47 U | 10 U | 29 U | 17.4 | 51.3 | 8 U | 24 U |
| Methyl Isobutyl Ketone | 0.8 U | 3.3 U | 16 U | 66 U | 10 U | 41 U | 0.8 U | 3.3 U | 8 U | 33 U |
| Methyl tert-butyl ether | 0.8 U | 2.9 U | 16 U | 58 U | 5 U | 18 U | 0.8 U | 2.9 U | 8 U | 29 U |
| Methylene chloride | 0.8 U | 2.8 U | 16 U | 56 U | 5 U | 17 U | 0.83 | 2.9 | 8 U | 28 U |
| Methylmethacrylate | 0.8 U | 3.3 U | 16 U | 66 U | - | - | 0.8 U | 3.3 U | 8 U | 33 U |
| o-Xylene | 0.8 U | 3.5 U | 16 U | 69 U | 5 U | 22 U | 0.41 J | 1.8 J | 8 U | 35 U |
| Propylene | 2 U | 3.4 U | 40 U | 69 U | 5 U | 8.6 U | 2 U | 3.4 U | 20 U | 34 U |
| Styrene | 0.8 U | 3.4 U | 16 U | 68 U | 5 U | 21 U | 0.8 U | 3.4 U | 8 U | 34 U |
| Tertiary Butyl Alcohol | 5.1 | 15 | 16 U | 49 U | - | - | 3.5 | 11 | 8 U | 24 U |
| Tetrachloroethene | 0.29 | 2 | 3.2 U | 22 U | 5 U | 34 U | 0.51 | 3.5 | 1.6 U | 11 U |
| Tetrahydrofuran | 0.8 U | 2.4 U | 16 U | 47 U | 5 U | 15 U | 0.8 U | 2.4 U | 8 U | 24 U |
| Toluene | 4.2 | 16 | 16 U | 60 U | 5 U | 19 U | 2 | 7.5 | 8 U | 30 U |
| trans-1,2-Dichloroethene | 7.8 | 31 | 12.2 J | 48.4 J | 5 U | 20 U | 7.2 | 29 | 21.7 | 86 |
| trans-1,3-Dichloropropene | 0.8 U | 3.6 U | 16 U | 73 U | 5 U | 23 U | 0.8 U | 3.6 U | 8 U | 36 U |
| Trichloroethene | 680 | 3,650 | 3,370 | 18,100 | 86 | 460 | 144 | 774 | 1390 | 7,470 |
| Vinyl acetate | 0.8 U | 2.8 U | 16 U | 56 U | 5 U | 18 U | 0.8 U | 2.8 U | 8 U | 28 U |
| Vinyl Bromide | 0.8 U | 3.5 U | 16 U | 70 U | 5 U | 22 U | 0.8 U | 3.5 U | 8 U | 35 U |
| Vinyl chloride | 4.6 | 12 | 10.5 | 26.8 | 5 U | 13 U | 102 | 261 | 264 | 675 |
| **Total VOCs** | **1,333** | **6,152** | **4,744** | **23,523** | **146** | **700** | **684** | **2,697** | **3,176** | **14,181** |

**Table 7**

**Extraction Well Vapor Phase Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Sample ID: | EW-6-60C | | | | | | EW-7-25B | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample Date: | 7/24/2020 | | 10/8/2021 | | 9/22/2022 | | 7/24/2020 | | 10/8/2021 | |
| | (ppbv) | (µg/m3) | (ppbv) | (µg/m$^3$) | (ppbv) | (µg/m3) | (ppbv) | (µg/m3) | (ppbv) | (µg/m$^3$) |
| **VOCs** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 U | 27 U | 1 U | 5.5 U | 2 U | 11 U | 5 U | 27 U | 24 U | 130 U |
| 1,1,2,2-Tetrachloroethane | 5 U | 34 U | 1 U | 6.9 U | 2 U | 14 U | 5 U | 34 U | 24 U | 160 U |
| 1,1,2-Trichloroethane | 5 U | 27 U | 1 U | 5.5 U | 2 U | 11 U | 5 U | 27 U | 24 U | 130 U |
| 1,1-Dichloroethane | 5 U | 20 U | 2 U | 8.1 U | 4 U | 16 U | 5 U | 20 U | 47 U | 190 U |
| 1,1-Dichloroethene | 11 | 43 | 1 | 4 | 6.4 | 25 | 10 | 41 | 67.1 | 266 |
| 1,2,4-Trichlorobenzene | 5 U | 37 U | 1 U | 6.6 U | 2 U | 15 U | 5 U | 37 U | 24 U | 180 U |
| 1,2,4-Trimethylbenzene | 5 U | 25 U | 2 U | 7.4 U | 4 U | 20 U | 5 U | 25 U | 47 U | 230 U |
| 1,2-Dibromoethane | 5 U | 38 U | 1 U | 7.7 U | 2 U | 15 U | 5 U | 38 U | 24 U | 180 U |
| 1,2-Dichlorobenzene | 5 U | 30 U | 0.4 U | 2.4 U | 0.8 U | 4.8 U | 5 U | 30 U | 9.4 U | 57 U |
| 1,2-Dichloroethane | 5 U | 20 U | 2 U | 8.1 U | 4 U | 16 U | 5 U | 20 U | 47 U | 190 U |
| 1,2-Dichloropropane | 5 U | 23 U | 2 U | 9.2 U | 4 U | 18 U | 5 U | 23 U | 47 U | 220 U |
| 1,3,5-Trimethylbenzene | 5 U | 25 U | 2 U | 9.8 U | 4 U | 20 U | 5 U | 25 U | 47 U | 230 U |
| 1,3-butadiene | 5 U | 11 U | 2 U | 4.4 U | 4 U | 8.8 U | 5 U | 11 U | 47 U | 100 U |
| 1,3-Dichlorobenzene | 5 U | 30 U | 1 U | 6 U | 2 U | 12 U | 5 U | 30 U | 24 U | 140 U |
| 1,4-Dichlorobenzene | 5 U | 30 U | 1 U | 6 U | 2 U | 12 U | 5 U | 30 U | 24 U | 140 U |
| 1,4-Dioxane | 10 U | 36 U | 2 U | 7.2 U | 4 U | 14 U | 10 U | 36 U | 47 U | 170 U |
| 2,2,4-trimethylpentane | 5 U | 23 U | 2 U | 9.3 U | 4 U | 19 U | 5 U | 23 U | 47 U | 220 U |
| 2-chlorotoluene | - | - | 2 U | 10 U | 4 U | 21 U | - | - | 47 U | 240 U |
| 4-ethyltoluene | 5 U | 25 U | 2 U | 9.8 U | 4 U | 20 U | 5 U | 25 U | 47 U | 230 U |
| Acetone | 10 U | 24 U | 14.1 | 33.5 | 4 U | 9.5 U | 10 U | 24 U | 58.9 | 140 |
| Allyl chloride | 5 U | 16 U | 2 U | 6.3 U | 4 U | 13 U | 5 U | 16 U | 47 U | 150 U |
| Benzene | 5 U | 16 U | 1 J | 3.2 J | 4 U | 13 U | 5 U | 16 U | 2.8 J | 1.5 J |
| Benzyl chloride | 5 U | 29 U | 2 U | 10 U | 4 U | 21 U | 5 U | 29 U | 47 U | 240 U |
| Bromodichloromethane | 5 U | 33 U | 1 U | 6.7 U | 2 U | 13 U | 5 U | 33 U | 24 U | 160 U |
| Bromoform | 5 U | 52 U | 0.4 U | 4.1 U | 0.8 U | 8.3 U | 5 U | 52 U | 9.4 U | 97 U |
| Bromomethane | 5 U | 19 U | 2 U | 7.8 U | 4 U | 16 U | 5 U | 19 U | 47 U | 180 U |
| Carbon disulfide | 5 U | 16 U | 2 U | 6.2 U | 4 U | 12 U | 5 U | 16 U | 47 U | 150 U |
| Carbon tetrachloride | 5 U | 31 U | 0.4 U | 2.5 U | 0.8 U | 5 U | 5 U | 31 U | 9.4 U | 59 U |
| Chlorobenzene | 5 U | 23 U | 2 U | 9.2 U | 4 U | 18 U | 5 U | 23 U | 47 U | 220 U |
| Chloroethane | 5 U | 13 U | 2 U | 5.3 U | 4 U | 11 U | 5 U | 13 U | 47 U | 120 U |
| Chloroform | 5 U | 24 U | 2 U | 9.8 U | 4 U | 20 U | 5 U | 24 U | 47 U | 230 U |
| Chloromethane | 5 U | 10 U | 2 U | 4.1 U | 4 U | 8.3 U | 5 U | 10 U | 47 U | 97 U |
| cis-1,2-Dichloroethene | 5,100 | 20,000 | 564 | 2,240 | 2,310 | 9,160 | 1,900 | 7,700 | 9,400 | 37,300 |
| cis-1,3-Dichloropropene | 5 U | 23 U | 2 U | 9.1 U | 4 U | 18 U | 5 U | 23 U | 47 U | 210 U |
| Cyclohexane | 5 U | 17 U | 2 U | 6.9 U | 4 U | 14 U | 5 U | 17 U | 47 U | 160 U |
| Dibromochloromethane | 5 U | 43 U | 1 U | 8.5 U | 2 U | 17 U | 5 U | 43 U | 24 U | 200 U |
| Ethanol | - | - | 7.6 | 14 | 10 U | 19 U | - | - | 120 U | 230 U |
| Ethyl acetate | 10 U | 36 U | 13.1 | 47.1 | 24.1 | 86.7 | 10 U | 36 U | 47 U | 170 U |
| Ethylbenzene | 5 U | 22 U | 2 U | 8.7 U | 4 U | 17 U | 5 U | 22 U | 47 U | 200 U |
| Freon 11 | 5 U | 28 U | 1 U | 5.6 U | 2 U | 11 U | 5 U | 28 U | 24 U | 130 U |
| Freon 113 | 5 U | 38 U | 1 U | 7.7 U | 2 U | 15 U | 5 U | 38 U | 24 U | 180 U |
| Freon 114 | 5 U | 35 U | 1 U | 7 U | 2 U | 14 U | 5 U | 35 U | 24 U | 170 U |
| Freon 12 | 5 U | 25 U | 2 U | 9.9 U | 4 U | 20 U | 5 U | 25 U | 47 U | 230 U |
| Heptane | 5 U | 20 U | 2 U | 8.2 U | 4 U | 16 U | 5 U | 20 U | 47 U | 190 U |
| Hexachloro-1,3-butadiene | 5 U | 53 U | 0.9 U | 9.6 U | 1.8 U | 19 U | 5 U | 53 U | 21 U | 220 U |
| Hexane | 5 U | 18 U | 2 U | 7 U | 4 U | 14 U | 5 U | 18 U | 47 U | 170 U |
| Isopropyl alcohol | 5 U | 12 U | 2 U | 4.9 U | 4 U | 9.8 U | 5 U | 12 U | 47 U | 120 U |
| m&p-Xylene | 10 U | 43 U | 2 U | 8.7 U | 4 U | 17 U | 10 U | 43 U | 47 U | 200 U |
| Methyl Butyl Ketone | 10 U | 41 U | 2 U | 8.2 U | 4 U | 16 U | 10 U | 41 U | 47 U | 190 U |
| Methyl Ethyl Ketone | 10 U | 29 U | 17.8 | 52.5 | 4 U | 12 U | 10 U | 29 U | 47 U | 140 U |
| Methyl Isobutyl Ketone | 10 U | 41 U | 2 U | 8.2 U | 4 U | 16 U | 10 U | 41 U | 47 U | 190 U |
| Methyl tert-butyl ether | 5 U | 18 U | 2 U | 7.2 U | 4 U | 14 U | 5 U | 18 U | 47 U | 170 U |
| Methylene chloride | 5 U | 17 U | 2 U | 6.9 U | 4 U | 14 U | 5 U | 17 U | 47 U | 160 U |
| Methylmethacrylate | - | - | 2 U | 8.2 U | 4 U | 16 U | - | - | 47 U | 190 U |
| o-Xylene | 5 U | 22 U | 2 U | 87 U | 4 U | 17 U | 5 U | 22 U | 47 U | 200 U |
| Propylene | 5 U | 8.6 U | 5 U | 8.6 U | 10 U | 17 U | 5 U | 8.6 U | 120 U | 210 U |
| Styrene | 5 U | 21 U | 2 U | 8.5 U | 4 U | 17 U | 5 U | 21 U | 47 U | 200 U |
| Tertiary Butyl Alcohol | - | - | 2.8 | 8.5 | 4 U | 12 U | - | - | 47 U | 140 U |
| Tetrachloroethene | 5.8 | 39 | 0.59 | 4 | 0.8 U | 5.4 U | 5 U | 34 U | 9.4 U | 64 U |
| Tetrahydrofuran | 5 U | 15 U | 6.5 | 19 | 4 U | 12 U | 5 U | 15 U | 47 U | 140 U |
| Toluene | 5 U | 19 U | 1.1 J | 4.1 J | 4 U | 15 U | 5 U | 19 U | 47 U | 180 U |
| trans-1,2-Dichloroethene | 35 | 140 | 4 | 16 | 17.8 | 70.6 | 37 | 150 | 210 | 833 |
| trans-1,3-Dichloropropene | 5 U | 23 U | 2 U | 9.1 U | 4 U | 18 U | 5 U | 23 U | 47 U | 210 U |
| Trichloroethene | 11,000 | 58,000 | 131 | 704 | 817 | 4,390 | 190 | 1,000 | 104 | 559 |
| Vinyl acetate | 5 U | 18 U | 2 U | 7 U | 4 U | 14 U | 5 U | 18 U | 47 U | 170 U |
| Vinyl Bromide | 5 U | 22 U | 2 U | 8.7 U | 4 U | 17 U | 5 U | 22 U | 47 U | 210 U |
| Vinyl chloride | 29 | 75 | 80.3 | 205 | 183 | 468 | 1,300 | 3,200 | 1,380 | 3,530 |
| **Total VOCs** | **16,181** | **78,297** | **845** | **3,355** | **3,358** | **14,200** | **3,437** | **12,091** | **11,223** | **42,630** |

**Table 7**

**Extraction Well Vapor Phase Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Sample ID: | EW-7-25B | | EW-8-62C | | | | | | EW-9R-72C | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample Date: | 9/22/2022 | | 7/24/2020 | | 10/8/2021 | | 9/22/2022 | | 7/24/2020 | |
| | (ppbv) | (µg/m3) | (ppbv) | (µg/m3) | (ppbv) | (µg/m$^3$) | (ppbv) | (µg/m3) | (ppbv) | (µg/m3) |
| **VOCs** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 0.4 U | 2.2 U | 5 U | 27 U | 0.4 U | 2.2 U | 0.4 U | 2.2 U | 5 U | 27 U |
| 1,1,2,2-Tetrachloroethane | 0.4 U | 2.7 U | 5 U | 34 U | 0.4 U | 2.7 U | 0.4 U | 2.7 U | 5 U | 34 U |
| 1,1,2-Trichloroethane | 0.4 U | 2.2 U | 5 U | 27 U | 0.4 U | 2.2 U | 0.4 U | 2.2 U | 5 U | 27 U |
| 1,1-Dichloroethane | 0.8 U | 3.2 U | 5 U | 20 U | 0.8 U | 3.2 U | 0.8 U | 3.2 U | 5 U | 20 U |
| 1,1-Dichloroethene | 1 | 4 | 5 U | 20 U | 0.57 | 2.3 | 0.66 | 2.6 | 120 | 490 |
| 1,2,4-Trichlorobenzene | 0.4 U | 3 U | 5 U | 37 U | 0.4 U | 2.6 U | 0.4 U | 3 U | 5 U | 37 U |
| 1,2,4-Trimethylbenzene | 0.8 U | 3.9 U | 5 U | 25 U | 0.8 U | 3.9 U | 0.8 U | 3.9 U | 5 U | 25 U |
| 1,2-Dibromoethane | 0.4 U | 3.1 U | 5 U | 38 U | 0.4 U | 3.1 U | 0.4 U | 3.1 U | 5 U | 38 U |
| 1,2-Dichlorobenzene | 0.16 U | 0.96 U | 5 U | 30 U | 0.16 U | 0.96 U | 0.16 U | 0.96 U | 5 U | 30 U |
| 1,2-Dichloroethane | 0.8 U | 3.2 U | 5 U | 20 U | 0.8 U | 3.2 U | 0.8 U | 3.2 U | 5 U | 20 U |
| 1,2-Dichloropropane | 0.8 U | 3.7 U | 5 U | 23 U | 0.8 U | 3.7 U | 0.8 U | 3.7 U | 5 U | 23 U |
| 1,3,5-Trimethylbenzene | 0.8 U | 3.9 U | 5 U | 25 U | 0.8 U | 3.9 U | 0.8 U | 3.9 U | 5 U | 25 U |
| 1,3-butadiene | 0.8 U | 1.8 U | 5 U | 11 U | 0.8 U | 1.8 U | 0.8 U | 1.8 U | 5 U | 11 U |
| 1,3-Dichlorobenzene | 0.4 U | 2.4 U | 5 U | 30 U | 0.4 U | 2.4 U | 0.4 U | 2.4 U | 5 U | 30 U |
| 1,4-Dichlorobenzene | 0.4 U | 2.4 U | 5 U | 30 U | 0.4 U | 2.4 U | 0.4 U | 2.4 U | 5 U | 30 U |
| 1,4-Dioxane | 0.8 U | 2.9 U | 10 U | 36 U | 0.8 U | 2.9 U | 0.8 U | 2.9 U | 10 U | 36 U |
| 2,2,4-trimethylpentane | 0.8 U | 3.7 U | 5 U | 23 U | 0.8 U | 3.7 U | 0.8 U | 3.7 U | 5 U | 23 U |
| 2-chlorotoluene | 0.8 U | 4.1 U | - | - | 0.8 U | 4.1 U | 0.8 U | 4.1 U | - | - |
| 4-ethyltoluene | 0.8 U | 3.9 U | 5 U | 25 U | 0.8 U | 3.9 U | 0.8 U | 3.9 U | 5 U | 25 U |
| Acetone | 2.8 | 6.7 | 10 U | 24 U | 11.8 | 28 | 4.3 | 1 | 10 U | 24 U |
| Allyl chloride | 0.8 U | 2.5 U | 5 U | 16 U | 0.8 U | 2.5 U | 0.8 U | 2.5 U | 5 U | 16 U |
| Benzene | 0.8 U | 2.6 U | 5 U | 16 U | 0.47 J | 1.5 J | 0.8 U | 2.6 U | 5 U | 16 U |
| Benzyl chloride | 0.8 U | 4.1 U | 5 U | 29 U | 0.8 U | 4.1 U | 0.8 U | 4.1 U | 5 U | 29 U |
| Bromodichloromethane | 0.4 U | 2.7 U | 5 U | 33 U | 0.4 U | 2.7 U | 0.4 U | 2.7 U | 5 U | 33 U |
| Bromoform | 0.16 U | 1.7 U | 5 U | 52 U | 0.16 U | 1.7 U | 0.16 U | 1.7 U | 5 U | 52 U |
| Bromomethane | 0.8 U | 3.1 U | 5 U | 19 U | 0.8 U | 3.1 U | 0.8 U | 3.1 U | 5 U | 19 U |
| Carbon disulfide | 0.8 U | 2.5 U | 5 U | 16 U | 0.8 U | 2.5 U | 0.8 U | 2.5 U | 5 U | 16 U |
| Carbon tetrachloride | 0.16 U | 1 U | 5 U | 31 U | 0.16 U | 1 U | 0.16 U | 1 U | 5 U | 31 U |
| Chlorobenzene | 0.8 U | 3.7 U | 5 U | 23 U | 0.8 U | 3.7 U | 0.8 U | 3.7 U | 5 U | 23 U |
| Chloroethane | 0.8 U | 2.1 U | 5 U | 13 U | 0.8 U | 2.1 U | 0.8 U | 2.1 U | 5 U | 13 U |
| Chloroform | 0.8 U | 3.9 U | 5 U | 24 U | 0.8 U | 3.9 U | 0.8 U | 3.9 U | 5 U | 24 U |
| Chloromethane | 0.8 U | 1.7 U | 5 U | 10 U | 0.6 J | 1.2 J | 0.8 U | 1.7 U | 5 U | 10 U |
| cis-1,2-Dichloroethene | 227 | 900 | 210 | 820 | 210 | 833 | 339 | 1,340 | 30,000 | 120,000 |
| cis-1,3-Dichloropropene | 0.8 U | 3.6 U | 5 U | 23 U | 0.8 U | 3.6 U | 0.8 U | 3.6 U | 5 U | 23 U |
| Cyclohexane | 0.8 U | 2.8 U | 5 U | 17 U | 0.8 U | 2.8 U | 0.8 U | 2.8 U | 6.5 | 22 |
| Dibromochloromethane | 0.4 U | 3.4 U | 5 U | 43 U | 0.4 U | 3.4 U | 0.4 U | 3.4 U | 5 U | 43 U |
| Ethanol | 3.1 | 5.8 | - | - | 5.8 | 11 | 3.1 | 5.8 | - | - |
| Ethyl acetate | 45.8 | 165 | 10 U | 36 U | 12.7 | 45.7 | 67.4 | 243 | 10 U | 36 U |
| Ethylbenzene | 0.8 U | 3.5 U | 5 U | 22 U | 0.8 U | 3.5 U | 0.8 U | 3.5 U | 5 U | 22 U |
| Freon 11 | 0.39 J | 2.2 J | 5 U | 28 U | 0.4 U | 2.2 U | 0.4 U | 2.2 U | 5 U | 28 U |
| Freon 113 | 0.4 U | 3.1 U | 5 U | 38 U | 0.4 U | 3.1 U | 0.4 U | 3.1 U | 5 U | 38 U |
| Freon 114 | 0.4 U | 2.8 U | 5 U | 35 U | 0.4 U | 2.8 U | 0.4 U | 2.8 U | 5 U | 35 U |
| Freon 12 | 0.42 J | 2.1 J | 5 U | 25 U | 0.42 J | 2.1 J | 0.39 J | 1.9 J | 5 U | 25 U |
| Heptane | 0.8 U | 3.3 U | 5 U | 20 U | 0.8 U | 0.29 U | 0.8 U | 3.3 U | 5 U | 20 U |
| Hexachloro-1,3-butadiene | 0.36 U | 3.8 U | 5 U | 53 U | 0.36 U | 3.8 U | 0.36 U | 3.8 U | 5 U | 53 U |
| Hexane | 0.8 U | 2.8 U | 5 U | 18 U | 0.8 U | 2.8 U | 0.8 U | 2.8 U | 8.1 | 29 |
| Isopropyl alcohol | 0.87 | 2.1 | 5 U | 12 U | 0.99 | 2.4 | 0.86 | 2.1 | 5 U | 12 U |
| m&p-Xylene | 0.8 U | 3.5 U | 10 U | 43 U | 0.73 J | 3.2 J | 0.8 U | 3.5 U | 10 U | 43 U |
| Methyl Butyl Ketone | 0.8 U | 3.3 U | 10 U | 41 U | 0.8 U | 3.3 U | 0.8 U | 3.3 U | 10 U | 41 U |
| Methyl Ethyl Ketone | 0.8 U | 2.4 U | 10 U | 29 U | 12.1 | 35.7 | 0.57 J | 1.7 J | 10 U | 29 U |
| Methyl Isobutyl Ketone | 0.8 U | 3.3 U | 10 U | 41 U | 0.8 U | 3.3 U | 0.8 U | 3.3 U | 10 U | 41 U |
| Methyl tert-butyl ether | 0.8 U | 2.9 U | 5 U | 18 U | 0.8 U | 2.9 U | 0.8 U | 2.9 U | 5 U | 18 U |
| Methylene chloride | 0.82 | 2.8 | 5 U | 17 U | 0.8 U | 2.8 U | 0.8 U | 2.8 U | 5 U | 17 U |
| Methylmethacrylate | 0.8 U | 3.3 U | - | - | 0.8 U | 3.3 U | 0.8 U | 3.3 U | - | - |
| o-Xylene | 0.8 U | 3.5 U | 5 U | 22 U | 0.8 U | 3.5 U | 0.8 U | 3.5 U | 5 U | 22 U |
| Propylene | 2 U | 3.4 U | 5 U | 8.6 U | 2 U | 3.4 U | 2 U | 3.4 U | 5 U | 8.6 U |
| Styrene | 0.8 U | 3.4 U | 5 U | 21 U | 0.8 U | 3.4 U | 0.8 U | 3.4 U | 5 U | 21 U |
| Tertiary Butyl Alcohol | 0.8 U | 2.4 U | - | - | 2.9 | 8.8 | 0.8 U | 2.4 U | - | - |
| Tetrachloroethene | 0.15 J | 1 J | 5 U | 34 U | 0.16 U | 1.1 U | 0.16 U | 1.1 U | 8.7 | 59 |
| Tetrahydrofuran | 0.8 U | 2.4 U | 5 U | 15 U | 0.8 U | 2.4 U | 0.8 U | 2.4 U | 5 U | 15 U |
| Toluene | 1.1 | 4.1 | 5 U | 19 U | 1.8 | 6.8 | 1.7 | 6.4 | 5 U | 19 U |
| trans-1,2-Dichloroethene | 3.6 | 14 | 5 U | 20 U | 2 | 7.9 | 2.3 | 9.1 | 270 | 1,100 |
| trans-1,3-Dichloropropene | 0.8 U | 3.6 U | 5 U | 23 U | 0.8 U | 3.6 U | 0.8 U | 3.6 U | 5 U | 23 U |
| Trichloroethene | 14.4 | 77.4 | 930 | 5,000 | 11.7 | 62.9 | 85.7 | 461 | 34,000 | 180,000 |
| Vinyl acetate | 0.8 U | 2.8 U | 5 U | 18 U | 0.8 U | 2.8 U | 0.83 | 2.9 | 5 U | 18 U |
| Vinyl Bromide | 0.8 U | 3.5 U | 5 U | 22 U | 0.8 U | 3.5 U | 0.8 U | 3.5 U | 5 U | 22 U |
| Vinyl chloride | 89.4 | 229 | 5 U | 13 U | 16.9 | 43.2 | 22.1 | 56.5 | 1,100 | 2,800 |
| **Total VOCs** | **391** | **1,416** | **1,140** | **5,820** | **291** | **1,096** | **529** | **2,134** | **65,513** | **304,500** |

**Table 7**

**Extraction Well Vapor Phase Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| **Sample ID:** | **EW-9R-72C** | | | | **EW-10-25B** | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sample Date:** | 10/8/2021 | | 9/22/2022 | | 7/24/2020 | | 10/8/2021 | | 9/22/2022 | |
| | (ppbv) | ($\mu g/m^3$) | (ppbv) | (µg/m3) | (ppbv) | (µg/m3) | (ppbv) | ($\mu g/m^3$) | (ppbv) | (µg/m3) |
| **VOCs** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 0.4 U | 2.2 U | 1 U | 5.5 U | 5 U | 27 U | 2 U | 11 U | 2 U | 11 U |
| 1,1,2,2-Tetrachloroethane | 0.4 U | 2.7 U | 1 U | 6.9 U | 5 U | 34 U | 2 U | 14 U | 2 U | 14 U |
| 1,1,2-Trichloroethane | 0.4 U | 2.2 U | 1 U | 5.5 U | 5 U | 27 U | 2 U | 11 U | 2 U | 11 U |
| 1,1-Dichloroethane | 0.8 U | 3.2 U | 2 U | 8.1 U | 5 U | 20 U | 4 U | 16 U | 4 U | 16 U |
| 1,1-Dichloroethene | 0.16 U | 0.63 U | 5.6 | 22 | 5 U | 20 U | 3.4 | 13 | 2.9 | 11 |
| 1,2,4-Trichlorobenzene | 0.4 U | 2.6 U | 1 U | 7.4 U | 5 U | 37 U | 2 U | 15 U | 2 U | 15 U |
| 1,2,4-Trimethylbenzene | 0.8 U | 3.9 U | 2 U | 9.8 U | 5 U | 25 U | 4 U | 20 U | 4 U | 20 U |
| 1,2-Dibromoethane | 0.4 U | 3.1 U | 1 U | 7.7 U | 5 U | 38 U | 2 U | 15 U | 2 U | 15 U |
| 1,2-Dichlorobenzene | 0.16 U | 0.96 U | 0.4 U | 2.4 U | 5 U | 30 U | 0.8 U | 4.8 U | 0.8 U | 4.8 U |
| 1,2-Dichloroethane | 0.8 U | 3.2 U | 2 U | 8.1 U | 5 U | 20 U | 4 U | 18 U | 2 U | 16 U |
| 1,2-Dichloropropane | 0.8 U | 3.7 U | 2 U | 9.2 U | 5 U | 23 U | 4 U | 1.8 U | 4 U | 18 U |
| 1,3,5-Trimethylbenzene | 0.8 U | 3.9 U | 2 U | 9.8 U | 5 U | 25 U | 4 U | 20 U | 4 U | 20 U |
| 1,3-butadiene | 0.8 U | 1.8 U | 2 U | 4.4 U | 5 U | 11 U | 4 U | 8.8 U | 4 U | 8.8 U |
| 1,3-Dichlorobenzene | 0.4 U | 2.4 U | 1 U | 6 U | 5 U | 30 U | 2 U | 12 U | 2 U | 12 U |
| 1,4-Dichlorobenzene | 0.4 U | 2.4 U | 1 U | 6 U | 5 U | 30 U | 2 U | 12 U | 2 U | 12 U |
| 1,4-Dioxane | 0.8 U | 2.9 U | 2 U | 7.2 U | 10 U | 36 U | 4 U | 14 U | 4 U | 14 U |
| 2,2,4-trimethylpentane | 0.8 U | 3.7 U | 2 U | 9.3 U | 5 U | 23 U | 4 U | 19 U | 4 U | 19 U |
| 2-chlorotoluene | 0.8 U | 4.1 U | 2 U | 1 U | - | - | 4 U | 21 U | 4 U | 21 U |
| 4-ethyltoluene | 0.8 U | 3.9 U | 2 U | 9.8 U | 5 U | 25 U | 4 U | 20 U | 4 U | 20 U |
| Acetone | 5.5 | 13 | 7 | 17 | 10 U | 24 U | 12.7 | 30.2 | 5.7 | 14 |
| Allyl chloride | 0.8 U | 2.5 U | 2 U | 6.3 U | 5 U | 16 U | 4 U | 13 U | 4 U | 13 U |
| Benzene | 0.8 U | 2.6 U | 2 U | 6.4 U | 5 U | 16 U | 4 U | 13 U | 4 U | 13 U |
| Benzyl chloride | 0.8 U | 4.1 U | 2 U | 10 U | 5 U | 29 U | 4 U | 21 U | 4 U | 21 U |
| Bromodichloromethane | 0.4 U | 2.7 U | 1 U | 6.7 U | 5 U | 33 U | 2 U | 13 U | 2 U | 13 U |
| Bromoform | 0.16 U | 1.7 U | 0.4 U | 4.1 U | 5 U | 52 U | 0.8 U | 8.3 U | 0.8 U | 8.3 U |
| Bromomethane | 0.8 U | 3.1 U | 2 U | 7.8 U | 5 U | 19 U | 4 U | 16 U | 4 U | 16 U |
| Carbon disulfide | 0.8 U | 2.5 U | 2 U | 6.2 U | 5 U | 16 U | 4 U | 12 U | 4 U | 12 U |
| Carbon tetrachloride | 0.16 U | 1 U | 0.4 U | 2.5 U | 5 U | 31 U | 0.8 U | 5 U | 0.8 U | 5 U |
| Chlorobenzene | 0.8 U | 3.7 U | 2 U | 9.2 U | 5 U | 23 U | 4 U | 18 U | 4 U | 18 U |
| Chloroethane | 0.8 U | 2.1 U | 2 U | 5.3 U | 5 U | 13 U | 4 U | 11 U | 4 U | 11 U |
| Chloroform | 0.8 U | 3.9 U | 2 U | 9.8 U | 5 U | 24 U | 4 U | 20 U | 4 U | 20 U |
| Chloromethane | 0.54 J | 1.1 J | 2 U | 4.1 U | 5 U | 10 U | 4 U | 8.3 U | 4 U | 8.3 U |
| cis-1,2-Dichloroethene | 9.4 | 37 | 1,520 | 6,030 | 46 | 180 | 1,100 | 4,360 | 349 | 1,380 |
| cis-1,3-Dichloropropene | 0.8 U | 3.6 U | 2 U | 9.1 U | 5 U | 23 U | 4 U | 18 U | 4 U | 18 U |
| Cyclohexane | 0.8 U | 2.8 U | 2 U | 6.9 U | 5 U | 17 U | 4 U | 14 U | 4 U | 14 U |
| Dibromochloromethane | 0.4 U | 3.4 U | 1 U | 8.5 U | 5 U | 43 U | 2 U | 17 U | 2 U | 17 U |
| Ethanol | 2.6 | 4.9 | 5 U | 9.4 U | - | - | 10 U | 19 U | 10 U | 19 U |
| Ethyl acetate | 1.5 | 5.4 | 6.9 | 25 | 10 U | 36 U | 11.2 | 40.3 | 13.3 | 47.9 |
| Ethylbenzene | 0.8 U | 3.5 U | 2 U | 8.7 U | 5 U | 22 U | 4 U | 17 U | 4 U | 17 U |
| Freon 11 | 0.4 U | 2.2 U | 1 U | 5.6 U | 5 U | 28 U | 2 U | 11 U | 2 U | 11 U |
| Freon 113 | 0.4 U | 3.1 U | 1 U | 7.7 U | 5 U | 38 U | 2 U | 15 U | 2 U | 15 U |
| Freon 114 | 0.4 U | 2.8 U | 1 U | 7 U | 5 U | 35 U | 2 U | 14 U | 2 U | 14 U |
| Freon 12 | 0.43 J | 2.1 J | 2 U | 9.9 U | 5 U | 25 U | 4 U | 20 U | 4 U | 20 U |
| Heptane | 0.8 U | 0.29 U | 2 U | 8.2 U | 5 U | 20 U | 4 U | 16 U | 4 U | 16 U |
| Hexachloro-1,3-butadiene | 0.36 U | 3.8 U | 0.9 U | 9.6 U | 5 U | 53 U | 1.8 U | 19 U | 1.8 U | 19 U |
| Hexane | 0.8 U | 2.8 U | 2 U | 7 U | 5 U | 18 U | 4 U | 14 U | 4 U | 14 U |
| Isopropyl alcohol | 0.8 U | 2 U | 2 U | 4.9 U | 5 U | 12 U | 4 U | 9.8 U | 4 U | 9.8 U |
| m&p-Xylene | 0.8 U | 3.5 U | 2 U | 8.7 U | 10 U | 43 U | 4 U | 17 U | 4 U | 17 U |
| Methyl Butyl Ketone | 0.8 U | 3.3 U | 2 U | 8.2 U | 10 U | 41 U | 4 U | 16 U | 4 U | 16 U |
| Methyl Ethyl Ketone | 0.42 J | 1.2 J | 2.1 | 6.2 | 10 U | 29 U | 6.4 | 19 | 4 U | 12 U |
| Methyl Isobutyl Ketone | 0.8 U | 3.3 U | 2 U | 8.2 U | 10 U | 41 U | 4 U | 16 U | 4 U | 16 U |
| Methyl tert-butyl ether | 0.8 U | 2.9 U | 2 U | 7.2 U | 5 U | 18 U | 4 U | 14 U | 4 U | 14 U |
| Methylene chloride | 0.8 U | 2.8 U | 2 U | 6.9 U | 5 U | 17 U | 4 U | 14 U | 4 U | 14 U |
| Methylmethacrylate | 0.8 U | 3.3 U | 2 | 8.2 | - | - | 4 U | 16 U | 4 U | 16 U |
| o-Xylene | 0.8 U | 3.5 U | 2 U | 8.7 U | 5 U | 22 U | 4 U | 17 U | 4 U | 17 U |
| Propylene | 2 U | 3.4 U | 5 U | 8.6 U | 5 U | 8.6 U | 10 U | 17 U | 10 U | 17 U |
| Styrene | 0.8 U | 3.4 U | 2 U | 8.5 U | 5 U | 21 U | 4 U | 17 U | 4 U | 17 U |
| Tertiary Butyl Alcohol | 0.8 U | 2.4 U | 2 U | 6.1 U | - | - | 4 U | 12 U | 4 U | 12 U |
| Tetrachloroethene | 0.16 U | 1.1 U | 0.4 U | 2.7 U | 5 U | 34 U | 0.8 U | 5.4 U | 0.8 U | 5.4 U |
| Tetrahydrofuran | 0.8 U | 2.4 U | 3.1 | 9.1 | 5 U | 15 U | 4 U | 12 U | 4 U | 12 U |
| Toluene | 2.8 | 11 | 2 U | 7.5 U | 5 U | 19 U | 4 U | 15 U | 4 U | 15 U |
| trans-1,2-Dichloroethene | 0.8 U | 3.2 U | 15 | 59.5 | 5 U | 20 U | 21.8 | 86.4 | 5.3 | 21 |
| trans-1,3-Dichloropropene | 0.8 U | 3.6 U | 2 U | 9.1 U | 5 U | 23 U | 4 U | 18 U | 4 U | 18 U |
| Trichloroethene | 12.4 | 66.6 | 477 | 2,560 | 30 | 160 | 409 | 2,200 | 604 | 3,250 |
| Vinyl acetate | 0.8 U | 2.8 U | 2 U | 7 U | 5 U | 18 U | 4 U | 14 U | 4 U | 14 U |
| Vinyl Bromide | 0.8 U | 3.5 U | 2 U | 8.7 U | 5 U | 22 U | 4 U | 17 U | 4 U | 17 U |
| Vinyl chloride | 2 | 5.1 | 483 | 1,230 | 5 U | 13 U | 157 | 401 | 112 | 286 |
| **Total VOCs** | **38** | **147** | **2,522** | **9,967** | **76** | **340** | **38** | **7,150** | **1,092** | **5,010** |

**Table 7**

**Extraction Well Vapor Phase Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Sample ID: | EW-11-45C | | | | | | EW-12-45C | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample Date: | 7/24/2020 | | 10/8/2021 | | 9/22/2022 | | 7/24/2020 | | 10/8/2021 | |
| | (ppbv) | (µg/m3) | (ppbv) | (µg/m$^3$) | (ppbv) | (µg/m3) | (ppbv) | (µg/m3) | (ppbv) | (µg/m$^3$) |
| **VOCs** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 U | 27 U | 200 U | 1,100 U | 110 U | 600 U | 5 U | 27 U | 0.4 U | 2.2 U |
| 1,1,2,2-Tetrachloroethane | 5 U | 34 U | 200 U | 1,400 U | 110 U | 760 U | 5 U | 34 U | 0.4 U | 2.7 U |
| 1,1,2-Trichloroethane | 5 U | 27 U | 200 U | 1,100 U | 110 U | 600 U | 5 U | 27 U | 0.4 U | 2.2 U |
| 1,1-Dichloroethane | 5 U | 20 U | 400 U | 1,600 U | 220 U | 890 U | 5 U | 20 U | 0.8 U | 3.2 U |
| 1,1-Dichloroethene | 5 U | 20 U | 312 | 1,240 | 201 | 797 | 5 U | 20 U | 1 | 4 |
| 1,2,4-Trichlorobenzene | 5 U | 37 U | 200 U | 1,500 U | 110 U | 820 U | 5 U | 37 U | 0.4 U | 2.6 U |
| 1,2,4-Trimethylbenzene | 5 U | 25 U | 400 U | 2,000 U | 220 U | 1,100 U | 5 U | 25 U | 0.8 U | 3.9 U |
| 1,2-Dibromoethane | 5 U | 38 U | 200 U | 1,500 U | 110 U | 850 U | 5 U | 38 U | 0.4 U | 3.1 U |
| 1,2-Dichlorobenzene | 5 U | 30 U | 79 U | 470 U | 45 U | 270 U | 5 U | 30 U | 0.16 U | 0.96 U |
| 1,2-Dichloroethane | 5 U | 20 U | 400 U | 1,800 U | 220 U | 890 U | 5 U | 20 U | 0.8 U | 3.2 U |
| 1,2-Dichloropropane | 5 U | 23 U | 400 U | 1,800 U | 220 U | 1,000 U | 5 U | 23 U | 0.8 U | 3.7 U |
| 1,3,5-Trimethylbenzene | 5 U | 25 U | 400 U | 2,000 U | 220 U | 1,100 U | 5 U | 25 U | 0.8 U | 3.9 U |
| 1,3-butadiene | 5 U | 11 U | 400 U | 880 U | 220 U | 490 U | 5 U | 11 U | 0.8 U | 1.8 U |
| 1,3-Dichlorobenzene | 5 U | 30 U | 200 U | 1,200 U | 110 U | 660 U | 5 U | 30 U | 0.4 U | 2.4 U |
| 1,4-Dichlorobenzene | 5 U | 30 U | 200 U | 1,200 U | 110 U | 660 U | 5 U | 30 U | 0.4 U | 2.4 U |
| 1,4-Dioxane | 10 U | 36 U | 400 U | 1,400 U | 220 U | 790 U | 10 U | 36 U | 0.8 U | 2.9 U |
| 2,2,4-trimethylpentane | 5 U | 23 U | 400 U | 1,900 U | 220 U | 1,000 U | 5 U | 23 U | 0.8 U | 3.7 U |
| 2-chlorotoluene | - | - | 400 U | 2,100 U | 220 U | 1,100 U | - | - | 0.8 U | 4.1 U |
| 4-ethyltoluene | 5 U | 25 U | 400 U | 2,000 U | 220 U | 1,100 U | 5 U | 25 U | 0.8 U | 3.9 U |
| Acetone | 10 U | 24 U | 400 U | 950 U | 220 U | 520 U | 11 | 24 | 20.9 | 49.6 |
| Allyl chloride | 5 U | 16 U | 400 U | 1,300 U | 220 U | 690 U | 5 U | 16 U | 0.8 U | 2.5 U |
| Benzene | 5 U | 16 U | 400 U | 1,300 U | 220 U | 700 U | 5 U | 16 U | 0.58 J | 1.9 J |
| Benzyl chloride | 5 U | 29 U | 400 U | 2,100 U | 220 U | 1,100 U | 5 U | 29 U | 0.8 U | 4.1 U |
| Bromodichloromethane | 5 U | 33 U | 200 U | 1,300 U | 110 U | 740 U | 5 U | 33 U | 0.4 U | 2.7 U |
| Bromoform | 5 U | 52 U | 79 U | 820 U | 45 U | 470 U | 5 U | 52 U | 0.16 U | 1.7 U |
| Bromomethane | 5 U | 19 U | 400 U | 1,600 U | 220 U | 850 U | 5 U | 19 U | 0.8 U | 3.1 U |
| Carbon disulfide | 5 U | 16 U | 400 U | 1,200 U | 220 U | 690 U | 5 U | 16 U | 0.87 | 2.7 |
| Carbon tetrachloride | 5 U | 31 U | 79 U | 500 U | 45 U | 280 U | 5 U | 31 U | 0.16 U | 1 U |
| Chlorobenzene | 5 U | 23 U | 400 U | 1,800 U | 220 U | 1,000 U | 5 U | 23 U | 0.8 U | 3.7 U |
| Chloroethane | 5 U | 13 U | 400 U | 1,100 U | 220 U | 580 U | 5 U | 13 U | 0.8 U | 2.1 U |
| Chloroform | 5 U | 24 U | 400 U | 2,000 U | 220 U | 1,100 U | 5 U | 24 U | 0.8 U | 3.9 U |
| Chloromethane | 5 U | 10 U | 400 U | 830 U | 220 U | 450 U | 5 U | 10 U | 0.86 | 1.8 |
| cis-1,2-Dichloroethene | 5 U | 20 U | 35,300 | 140,000 | 13,700 | 54,300 | 30 | 120 | 187 | 741 |
| cis-1,3-Dichloropropene | 5 U | 23 U | 400 U | 1,800 U | 220 U | 1,000 U | 5 U | 23 U | 0.8 U | 3.6 U |
| Cyclohexane | 5 U | 17 U | 400 U | 1,400 U | 220 U | 760 U | 5 U | 17 U | 0.8 U | 2.8 U |
| Dibromochloromethane | 5 U | 43 U | 200 U | 1,700 U | 110 U | 940 U | 5 U | 43 U | 0.4 U | 3.4 U |
| Ethanol | - | - | 990 U | 1,900 U | 560 U | 1,100 U | - | - | 3.2 | 6 |
| Ethyl acetate | 10 U | 36 U | 400 U | 1,400 U | 220 U | 790 U | 10 U | 36 U | 3.2 | 12 |
| Ethylbenzene | 5 U | 22 U | 400 U | 1,700 U | 220 U | 960 U | 5 U | 22 U | 0.8 U | 3.5 U |
| Freon 11 | 5 U | 28 U | 200 U | 1,100 U | 110 U | 620 U | 5 U | 28 U | 0.4 U | 2.2 U |
| Freon 113 | 5 U | 38 U | 200 U | 1,500 U | 110 U | 840 U | 5 U | 38 U | 0.4 U | 3.1 U |
| Freon 114 | 5 U | 35 U | 200 U | 1,400 U | 110 U | 770 U | 5 U | 35 U | 0.4 U | 2.8 U |
| Freon 12 | 5 U | 25 U | 400 U | 2,000 U | 220 U | 1,100 U | 5 U | 25 U | 0.43 J | 2.1 J |
| Heptane | 5 U | 20 U | 400 U | 1,600 U | 220 U | 900 U | 5 U | 20 U | 0.8 U | 0.29 U |
| Hexachloro-1,3-butadiene | 5 U | 53 U | 180 U | 1,900 U | 100 U | 1,100 U | 5 U | 53 U | 0.36 U | 3.8 U |
| Hexane | 5 U | 18 U | 400 U | 1,400 U | 220 U | 780 U | 5 U | 18 U | 0.8 U | 2.8 U |
| Isopropyl alcohol | 5 U | 12 U | 400 U | 980 U | 220 U | 540 U | 5 U | 12 U | 0.8 U | 2 U |
| m&p-Xylene | 10 U | 43 U | 400 U | 1,700 U | 220 U | 960 U | 10 U | 43 U | 1.1 | 4.8 |
| Methyl Butyl Ketone | 10 U | 41 U | 400 U | 1,600 U | 220 U | 900 U | 10 U | 41 U | 0.8 U | 3.3 U |
| Methyl Ethyl Ketone | 10 U | 29 U | 400 U | 1,200 U | 220 U | 650 U | 10 U | 29 U | 7.4 | 22 |
| Methyl Isobutyl Ketone | 10 U | 41 U | 400 U | 1,600 U | 220 U | 900 U | 10 U | 41 U | 0.8 U | 3.3 U |
| Methyl tert-butyl ether | 5 U | 18 U | 400 U | 1,400 U | 220 U | 790 U | 5 U | 18 U | 0.8 U | 2.9 U |
| Methylene chloride | 5 U | 17 U | 400 U | 1,400 U | 220 U | 760 U | 5 U | 17 U | 0.8 U | 2.8 U |
| Methylmethacrylate | - | - | 400 U | 1,600 U | 220 U | 900 U | - | - | 0.8 U | 3.3 U |
| o-Xylene | 5 U | 22 U | 400 U | 1,700 U | 220 U | 960 U | 5 U | 22 U | 0.52 J | 2.3 J |
| Propylene | 5 U | 8.6 U | 990 U | 1,700 U | 560 U | 960 U | 5 U | 8.6 U | 3.8 | 6.5 |
| Styrene | 5 U | 21 U | 400 U | 1,700 U | 220 U | 940 U | 5 U | 21 U | 0.8 U | 3.4 U |
| Tertiary Butyl Alcohol | - | - | 400 U | 1,200 U | 220 U | 670 U | - | - | 1.3 | 3.9 |
| Tetrachloroethene | 5 U | 34 U | 79 U | 540 U | 45 U | 310 U | 5 U | 34 U | 0.56 | 3.8 |
| Tetrahydrofuran | 5 U | 15 U | 400 U | 1,200 U | 220 U | 650 U | 5 U | 15 U | 2.3 | 6.8 |
| Toluene | 5 U | 19 U | 400 U | 1,500 U | 220 U | 830 U | 5 U | 19 U | 1.9 | 7.2 |
| trans-1,2-Dichloroethene | 5 U | 20 U | 380 J | 1,510 J | 174 J | 690 J | 5 U | 20 U | 1.4 | 5.6 |
| trans-1,3-Dichloropropene | 5 U | 23 U | 400 U | 1,800 U | 220 U | 1,000 U | 5 U | 23 U | 0.8 U | 3.6 U |
| Trichloroethene | 9.8 | 53 | 94,900 | 510,000 | 42,000 | 227,000 | 120 | 640 | 450 | 2,420 |
| Vinyl acetate | 5 U | 18 U | 400 U | 1,400 U | 220 U | 770 U | 5 U | 18 U | 0.8 U | 2.8 U |
| Vinyl Bromide | 5 U | 22 U | 400 U | 1,700 U | 220 U | 960 U | 5 U | 22 U | 0.8 U | 3.5 U |
| Vinyl chloride | 5 U | 13 U | 1,230 | 3,140 | 4250 | 10,900 | 5 U | 13 U | 3.7 | 9.5 |
| **Total VOCs** | **9.80** | **53** | **132,122** | **655,890** | **60,325** | **293,687** | **161** | **784** | **692** | **3,314** |

**Table 7**

**Extraction Well Vapor Phase Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| **Sample ID:** | **EW-12-45C** | |
|---|---|---|
| **Sample Date:** | 9/22/2022 | |
| | (ppbv) | (µg/m3) |
| **VOCs** | | |
| 1,1,1-Trichloroethane | 0.4 U | 2.2 U |
| 1,1,2,2-Tetrachloroethane | 0.4 U | 2.7 U |
| 1,1,2-Trichloroethane | 0.4 U | 2.2 U |
| 1,1-Dichloroethane | 0.8 U | 3.2 U |
| 1,1-Dichloroethene | 0.71 | 2.8 |
| 1,2,4-Trichlorobenzene | 0.4 U | 3 U |
| 1,2,4-Trimethylbenzene | 0.8 U | 3.9 U |
| 1,2-Dibromoethane | 0.4 U | 3.1 U |
| 1,2-Dichlorobenzene | 0.16 U | 0.96 U |
| 1,2-Dichloroethane | 0.8 U | 3.2 U |
| 1,2-Dichloropropane | 0.8 U | 3.7 U |
| 1,3,5-Trimethylbenzene | 0.8 U | 3.9 U |
| 1,3-butadiene | 0.8 U | 1.8 U |
| 1,3-Dichlorobenzene | 0.4 U | 2.4 U |
| 1,4-Dichlorobenzene | 0.4 U | 2.4 U |
| 1,4-Dioxane | 0.8 U | 2.9 U |
| 2,2,4-trimethylpentane | 0.8 U | 3.7 U |
| 2-chlorotoluene | 0.8 U | 4.1 U |
| 4-ethyltoluene | 0.8 U | 3.9 U |
| Acetone | 5.5 | 13 |
| Allyl chloride | 0.8 U | 2.5 U |
| Benzene | 1 | 3.2 |
| Benzyl chloride | 0.8 U | 4.1 U |
| Bromodichloromethane | 0.4 U | 2.7 U |
| Bromoform | 0.16 U | 1.7 U |
| Bromomethane | 0.8 U | 3.1 U |
| Carbon disulfide | 0.79 J | 2.5 J |
| Carbon tetrachloride | 0.16 U | 1 U |
| Chlorobenzene | 0.8 U | 3.7 U |
| Chloroethane | 0.8 U | 2.1 U |
| Chloroform | 0.8 U | 3.9 U |
| Chloromethane | 2.1 | 4.3 |
| cis-1,2-Dichloroethene | 84.8 | 336 |
| cis-1,3-Dichloropropene | 0.8 U | 3.6 U |
| Cyclohexane | 0.8 U | 2.8 U |
| Dibromochloromethane | 0.4 U | 3.4 U |
| Ethanol | 2 U | 3.8 U |
| Ethyl acetate | 5.3 | 19 |
| Ethylbenzene | 0.8 U | 3.5 U |
| Freon 11 | 0.4 U | 2.2 U |
| Freon 113 | 0.4 U | 3.1 U |
| Freon 114 | 0.4 U | 2.8 U |
| Freon 12 | 0.4 J | 2 J |
| Heptane | 0.8 U | 3.3 U |
| Hexachloro-1,3-butadiene | 0.36 U | 3.8 U |
| Hexane | 0.8 U | 2.8 U |
| Isopropyl alcohol | 0.8 U | 2 U |
| m&p-Xylene | 0.8 U | 3.5 U |
| Methyl Butyl Ketone | 0.8 U | 3.3 U |
| Methyl Ethyl Ketone | 0.83 | 2.4 |
| Methyl Isobutyl Ketone | 0.8 U | 3.3 U |
| Methyl tert-butyl ether | 0.8 U | 2.9 U |
| Methylene chloride | 0.8 U | 2.8 U |
| Methylmethacrylate | 0.8 U | 3.3 U |
| o-Xylene | 0.8 U | 3.5 U |
| Propylene | 2.5 | 4.3 |
| Styrene | 0.8 U | 3.4 U |
| Tertiary Butyl Alcohol | 0.8 U | 2.4 U |
| Tetrachloroethene | 0.16 U | 1.1 U |
| Tetrahydrofuran | 0.8 U | 2.4 U |
| Toluene | 0.8 U | 3 U |
| trans-1,2-Dichloroethene | 0.64 J | 2.5 J |
| trans-1,3-Dichloropropene | 0.8 U | 3.6 U |
| Trichloroethene | 141 | 758 |
| Vinyl acetate | 0.8 U | 2.8 U |
| Vinyl Bromide | 0.8 U | 3.5 U |
| Vinyl chloride | 38.1 | 97.4 |
| **Total VOCs** | **284** | **1,247** |

# Table 8

## Semi-Annual Site-Wide Groundwater Elevation Measurements
## Former Emerson Power Transmission
## Ithaca, New York
## September 2022 (a)

| | | | | DPE System On (September 16, 2022) | | | DPE System Off (September 19, 2022) | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Well ID | Easting | Northing | Top of casing Elevation (ft amsl) | Depth to Product (ft) | Depth to Groundwater (ft) | Groundwater Elevation (ft amsl) | Depth to Product (ft) | Depth to Groundwater (ft) | Groundwater Elevation (ft amsl) | Groundwater Drawdown (ft) |
| EXB-7 | 843046.56 | 886317.64 | 529.06 | - | 8.48 | 520.58 | - | 6.19 | 522.87 | -2.29 |
| EXB-9 | 843148.53 | 886342.70 | 565.19 | - | 45.29 | 519.90 | - | 42.05 | 523.14 | -3.24 |
| EXB-10 | 843018.96 | 886104.16 | 560.07 | - | 44.34 | 515.73 | - | 34.98 | 525.09 | -9.36 |
| EXB-11 | 843046.16 | 886295.68 | 532.43 | - | 66.75 | 465.68 | - | 66.3 | 466.13 | -0.45 |
| MW-1B | 843143.28 | 886274.60 | 566.34 | - | 12.48 | 553.86 | - | 4.62 | 561.72 | -7.86 |
| MW-2B | 843116.22 | 886211.86 | 564.00 | - | 12.41 | 551.59 | - | 12.96 | 551.04 | 0.55 |
| MW-3B | 843101.31 | 886199.75 | 564.24 | - | 15.31 | 548.93 | - | 14.41 | 549.83 | -0.90 |
| MW-4B | 843025.61 | 886110.77 | 563.83 | - | 20.01 | 543.82 | - | 19.75 | 544.08 | -0.26 |
| MW-5-25 | 843185.23 | 886140.53 | 586.53 | - | 8.95 | 577.58 | - | 9.00 | 577.53 | 0.05 |
| MW-5-40 | 843192.04 | 886147.65 | 586.43 | - | 0.55 | 585.88 | - | NM | NM | NA |
| MW-5-100 | 843188.52 | 886143.83 | 586.21 | - | 94.37 | 491.84 | - | 94.33 | 491.88 | -0.04 |
| MW-5B | 843087.01 | 886183.36 | 563.22 | - | 14.22 | 549.00 | - | 12.87 | 550.35 | -1.35 |
| MW-6B | 843008.15 | 886087.99 | 560.87 | - | 2.22 | 558.65 | - | 2.23 | 558.64 | 0.01 |
| MW-7-40 | 842994.20 | 886304.99 | 533.00 | - | NM | NM | - | 17.24 | 515.76 | NA |
| MW-7B | 843133.80 | 886125.12 | 587.26 | - | 14.86 | 572.40 | - | 14.63 | 572.63 | -0.23 |
| MW-8-40 | 843130.89 | 886507.35 | 517.98 | - | 36.12 | 481.86 | - | 35.04 | 482.94 | -1.08 |
| MW-8B | 843183.14 | 886137.72 | 586.64 | 9.20 | 9.21 | 577.43 | 9.19 | 9.20 | 577.44 | -0.01 |
| MW-12C | 843197.93 | 886141.73 | 586.35 | - | 28.25 | 558.10 | - | 28.24 | 558.11 | -0.01 |
| MW-13C | 843177.31 | 886115.68 | 586.62 | - | 29.00 | 557.62 | - | 28.89 | 557.73 | -0.11 |
| MW-15C | 843210.89 | 886168.65 | 586.27 | - | 0.62 | 585.65 | - | NM | NM | NA |
| MW-16-100 | 843001.02 | 886309.73 | 533.47 | - | NM | NM | - | 76.70 | 456.77 | NA |
| MW-17-40 (b | 842562.71 | 886569.16 | 394.21 | - | NM | NM | - | 0.00 | 394.21 | NA |
| MW-18A | 842535.84 | 886413.92 | 394.96 | - | NM | NM | - | 5.33 | 389.63 | NA |
| MW-20B | 843121.55 | 886496.75 | 516.09 | - | 11.72 | 504.37 | - | 11.84 | 504.25 | 0.12 |
| MW-22B | 843247.83 | 886844.08 | 489.46 | - | 12.24 | 477.22 | - | 13.24 | 476.22 | 1.00 |
| MW-25A | 842284.56 | 886406.03 | 391.01 | - | NM | NM | - | 5.05 | 385.96 | NA |
| MW-26A | 842355.88 | 886058.61 | 396.12 | - | NM | NM | - | 6.00 | 390.12 | NA |
| MW-30B | 842868.03 | 886178.14 | 533.48 | - | 17.40 | 516.08 | - | 17.75 | 515.73 | 0.35 |
| MW-32B | 843045.08 | 886412.97 | 512.78 | - | 4.55 | 508.23 | - | 4.60 | 508.18 | 0.05 |
| MW-36B | 843144.19 | 886141.80 | 586.38 | - | 17.33 | 569.05 | - | 17.41 | 568.97 | 0.08 |
| MW-44T | 842927.90 | 885982.86 | 558.22 | - | 26.35 | 531.87 | - | 24.79 | 533.43 | -1.56 |
| MW-46-43C | 843149.02 | 886135.40 | 586.55 | - | 31.86 | 554.69 | - | 32.02 | 554.53 | 0.16 |
| MW-46-72C | 843145.48 | 886138.52 | 586.21 | - | 75.01 | 511.20 | - | 68.73 | 517.48 | -6.28 |
| MW-50-160D | - | - | 587.42 | - | 128.24 | 459.18 | - | 121.18 | 466.24 | -7.06 |
| EW-1-62C | 843159.95 | 886285.60 | 565.34 | - | 51.33 | 514.01 | - | 41.41 | 523.93 | -9.92 |
| EW-2-62C | 843119.30 | 886255.15 | 563.93 | - | 57.01 | 506.92 | - | 40.64 | 523.29 | -16.37 |
| EW-3-60C | 843108.21 | 886223.35 | 563.28 | - | 56.95 | 506.33 | - | 38.62 | 524.66 | -18.33 |
| EW-4-25B | 843107.29 | 886221.29 | 562.90 | - | 20.68 | 542.22 | - | 19.20 | 543.70 | -1.48 |
| EW-5-25B | 843100.60 | 886196.14 | 563.37 | - | 19.48 | 543.89 | - | 13.64 | 549.73 | -5.84 |
| EW-6-60C | 843099.51 | 886194.81 | 563.84 | - | 47.55 | 516.29 | - | 38.64 | 525.20 | -8.91 |
| EW-7-25B | 843084.17 | 886176.33 | 561.76 | - | 19.83 | 541.93 | - | 9.11 | 552.65 | -10.72 |
| EW-8-62C | 843076.90 | 886167.91 | 561.82 | - | 51.95 | 509.87 | - | 36.50 | 525.32 | -15.45 |
| EW-9R-72C | 843141.52 | 886147.65 | 585.10 | - | 74.04 | 511.06 | - | 61.86 | 523.24 | -12.18 |
| EW-10-25B | 843068.65 | 886158.34 | 561.82 | - | 20.89 | 540.93 | - | 16.13 | 545.69 | -4.76 |
| EW-11-43C | 843153.00 | 886142.06 | 585.07 | - | 41.65 | 543.42 | - | 23.71 | 561.36 | -17.94 |
| EW-12-45C | 843188.42 | 886146.63 | 586.47 | - | 41.99 | 544.48 | - | 41.98 | 544.49 | -0.01 |
| LBA-MW-35 | - | - | NA | 5.68 | 5.70 | NA | 5.68 | NM | NM | NA |
| LBA-MW-39 | - | - | NA | - | 18.40 | NA | - | NM | NM | NA |

a/ Abbreviations: ft = feet; amsl = above Mean Sea Level; "-" = no measureable thickness of free-phase petroleum product.
b/ Possible artesian conditions.

**Table 9**

**Semi-Annual Site-Wide Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| **Well ID:** | **Evaluation** | **MW-1B** | | **MW-2B** | **MW-3B** | **MW-4B** | **MW-5B** | **MW-5-25** | **MW-5-40** | **MW-5-100** | **MW-7-40** | **MW-7B** | **MW-8-40** | **MW-8B** | **MW-12C** | **MW-13C** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID:** | **Criteria** | MW-1B | MW-092222 | MW-2B | MW-3B | MW-4B | MW-5B | MW-5-25 | MW-5-40 | MW-5-100 | MW-7-40 | MW-7B | MW-8-40 | MW-8B | MW-12C | MW-13C |
| **Date:** | **(b)** | 9/22/22 | 9/22/22 | 9/22/22 | 9/22/22 | 9/21/22 | 9/22/22 | 9/19/22 | 9/19/22 | 9/21/22 | 9/21/22 | 9/21/22 | 9/22/22 | 9/20/22 | 9/21/22 | 9/21/2022 |
| **VOCs (µg/l)** | | | | | | | | | | | | | | | | |
| Acetone | 50 | 10 U | 10 U | 500 U | 10 U | 3.2 J | 10 U | 6.5 J | 100 U | 10 U | 10 U | 4.5 J | 10 U | 10 U | 10 U | 3.1 J |
| Benzene | 1 | 0.5 U | 0.5 U | 25 U | 0.5 | 0.5 U | 0.5 U | 0.5 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | **3.7** |
| Carbon disulfide | 60 | 2 U | 2 U | 100 U | 0.5 J | 2 U | 2 U | 2 U | 20 U | 2 U | 2 U | 2 U | 2 U | 1 U | 2 U | 2 U |
| Chloroethane | 5 | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U | 10 U | 3.6 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Chloroform | 7 | 1 U | 1 U | 50 U | 0.8 J | 1 U | 1 U | 1 U | 10 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.52 J |
| 1,1-Dichloroethene | 5 | 1 U | 1 U | 50 U | **16.8** | 1 U | 1.5 | 1 U | 10 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| cis-1,2-Dichloroethene | 5 | 1.7 | 1.7 | **5,720** | **7,150** | 1 U | **795** | 1 U | **2,420** | **33.4** | **150** | 1.7 | 1 U | 1 U | 1.5 | **163** |
| trans-1,2-Dichloroethe | 5 | 1 U | 1 U | **31.8 J** | **149** | 1 U | **11.7** | 1 U | **101** | 1 U | 2.2 | 1 U | 1 U | 1 U | 1 U | 1 U |
| Tetrachloroethene | 5 | 1 U | 1 U | 50 U | 1.6 | 1 U | 0.81 J | 1 U | 10 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| 1,1,1-Trichloroethane | 5 | 1 U | 1 U | 50 U | 1 U | 1 U | 1 U | 1 U | 10 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Trichloroethene | 5 | 2.5 | 2.7 | **7,600** | **4,730** | 1 U | **554** | 1 U | **33** | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | **219** |
| Vinyl chloride | 2 | 1 U | 1 U | **67.9** | **110** | 1.4 | **27.7** | 1 U | **4,250** | **35.4** | **41.5** | 1 U | 1 U | 1 U | 1 U | 1.7 |
| **Total VOCs:** | - | **4** | **4** | **13,420** | **12,159** | **4.6** | **1,391** | **7** | **6,804** | **72** | **194** | **6** | **ND** | **ND** | **2** | **391** |
| **Total CVOCs:** | - | **4** | **4** | **13,420** | **12,157** | **1.4** | **1,391** | **ND** | **6,804** | **72** | **194** | **2** | **ND** | **ND** | **2** | **384** |

**Table 9**

**Semi-Annual Site-Wide Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| **Well ID:** | **Evaluation** | **MW-15C** | **MW-16-100** | **MW-17-40** | **MW-18A** | **MW-20B** | **MW-22B** | **MW-25A** | **MW-26A** | **MW-32B** | **MW-36B** | **MW-46-43C** | **MW-46-72C** | **MW-50-160D** | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sample ID:** | **Criteria** | MW-15C | MW-16-100 | MW-17-40 | MW-18A | MW-20B | MW-22B | MW-25A | MW-26A | MW-32B | MW-36B | MW-46-43C | MW-46-72C | MW-50-160D | MW-092022 |
| **Date:** | **(b)** | 9/20/2022 | 9/21/22 | 9/22/22 | 9/22/22 | 9/21/22 | 9/22/22 | 9/22/22 | 9/22/22 | 9/20/22 | 9/20/2022 | 9/20/2022 | 9/20/22 | 9/20/22 | 9/20/22 |
| **VOCs (µg/l)** | | | | | | | | | | | | | | | |
| Acetone | 50 | 4.6 J | 10 U | 10 U | 4.8 J | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 1,000 U | 200 U | 100 U | 100 U |
| Chloroform | 7 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.63 J | 1 U | 100 U | 20 U | 10 U | 10 U |
| 1,1-Dichloroethene | 5 | 0.61 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 100 U | 20 U | 10 U | 10 U |
| cis-1,2-Dichloroethene | 5 | **451** | 4.0 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | **7.8** | **10** | **14,600** | **11,200** | **3,150** | **3,200** |
| trans-1,2-Dichloroethe | 5 | 1.7 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | **112** | **42** | **17.1** | **16.8** |
| 1,1,1-Trichloroethane | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.58 J | 1 U | 100 U | 20 U | 10 U | 10 U |
| Trichloroethene | 5 | 4.7 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | **35.1** | **5.6** | 100 U | **1,090** | **23** | **24** |
| Vinyl chloride | 2 | **19.1** | **19.0** | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | **8,960** | **964** | **1,120** | **1,080** |
| **Total VOCs:** | - | **482** | **23** | **ND** | **5** | **ND** | **ND** | **ND** | **ND** | **44** | **16** | **23,672** | **13,296** | **4,310** | **4,321** |
| **Total CVOCs:** | - | **477** | **23** | **ND** | **ND** | **ND** | **ND** | **ND** | **ND** | **43** | **16** | **23,672** | **13,296** | **4,310** | **4,321** |

**Table 9**

**Semi-Annual Site-Wide Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| **Well ID:** | **Evaluation** | **EXB-9** | **EXB-10** | **EXB-11** |
|---|---|---|---|---|
| **Sample ID:** | **Criteria** | MW-48A | MW-49A | EXB-11 |
| **Date:** | **(b)** | 9/19/2022 | 9/20/2022 | 9/21/2022 |
| **VOCs (µg/l)** | | | | |
| Acetone | 50 | 10 U | 10 U | 50 U |
| Benzene | 1 | 0.5 U | 0.67 | 2.5 U |
| Cyclohexane | - | 5 U | 1.2 J | 25 U |
| cis-1,2-Dichloroethene | 5 | 1 U | 2.8 | **1,830** |
| trans-1,2-Dichloroethe | 5 | 1 U | 1 U | **33.6** |
| Methylcyclohexane | 5 | 5 U | 0.96 J | 25 U |
| Trichloroethene | 5 | 1 U | 1 U | **400** |
| Vinyl chloride | 2 | 1 U | 1 U | **13.8** |
| **Total VOCs:** | - | **ND** | **ND** | **2277** |
| **Total CVOCs:** | - | **ND** | **2.8** | **2277** |

a/ VOC = volatile organic compound; CVOC = chlorinated volatile organic compound; µg/l = micrograms per liter; U = analyte not detected above Reporting Limit; J = estimated concentration below the laboratory Reporting Limit or equal to or greater than the Method Detection Limit; ND = none detected.

b/ Concentrations highlighted and in bold text exceed evaluation criteria. Concentrations in bold text indicate the laboratory method detection limit exceeds evaluation criteria. Evaluation criteria are the New York State Ambient Water Quality Standards or Guidance Values for Class GA groundwater provided in the New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1), dated June 1998, and the April 2000 Addendum.

c/ Blind duplicates: MW-092222 is for MW-1B and MW-092022 is for MW-50-160D

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **EW-1-62C** | 9/26/17 | 3.2 J | **1,750** | **16.8** | 5 U | **1,600** | 5 U |
| | 7/24/20 | 10 U | **1,550** | **17.8** | 10 U | **556** | **55.2** |
| | 10/7/21 | 1 U | **379** | **8.6** | 1 U | **49.9** | **15.5** |
| | 9/22/22 | 1 U | **321** | 3.2 | 1 U | **33.6** | **31.1** |
| **EW-2-62C** | 9/26/17 | 20 U | **1,760** | **24.8** | 20 U | **2,240** | 20 U |
| | 7/24/20 | 10 U | **2,020** | **35** | 10 U | **2,350** | 10 U |
| | 10/7/21 | 4 U | **2,000** | **301** | 4 U | **589** | **25** |
| | 9/22/22 | 1 U | **403** | 3.5 | 1 U | **70.8** | **24.4** |
| **EW-3-60C** | 9/26/17 | 5 U | **503** | **14.5** | 5 U | **1,800** | **3.3 J** |
| | 7/24/20 | 10 U | **4,020** | **135** | 10 U | **3,380** | **14.2** |
| | 10/7/21 | 50 U | **7,480** | **42.2 J** | 50 U | **1,300** | 50 U |
| | 9/22/22 | 1.6 J | **1,100** | **15.1** | 2 U | **960** | **36.2** |
| **EW-4-25B** | 9/26/17 | 100 U | **5,050** | **106** | 100 U | **18,700** | 100 U |
| | 7/24/20 | 5 U | **521** | **7.9** | 5 U | **761** | 5 U |
| | 10/7/21 | 20 U | **2,970** | **488** | 20 U | **3,570** | 20 U |
| | 9/22/22 | 4 U | **772** | **8.4** | 4 U | **867** | 4 U |
| **EW-5-25B** | 9/25/09 | 3.2 | **1,300 DJ** | **24.0 J** | 1.3 | **1,100 DJ** | **70.0 J** |
| | 9/29/10 | 3.9 | **1,290** | **30.7** | 1.2 | **793** | **231** |
| | 10/3/11 | 3.3 | **1,280** | **16.4** | 1.3 | **1,670** | **45.1** |
| | 10/1/12 | 1 U | **134** | 1.9 | 2.0 | **1,040** | **5.3** |
| | 10/18/13 | 3.1 | **897** | **8.8** | 3.2 | **1,420** | **21.7** |
| | 8/21/14 | 2.8 J | **863** | **14.7** | 1.6 | **761** | **61.7** |
| | 8/24/15 | 3 | **1,110** | **36.1** | 1 | **1,410** | **10.2** |
| | 9/28/16 | 3.3 | **1,650 J** | **94.2** | 4.8 | **2,280** | **11.1** |
| | 9/26/17 | 20 U | **2,730** | **60.1** | 20 U | **2,530** | **12.7 J** |
| | 8/28/18 | 1.6 | **897** | **14.4** | 1 U | **839** | **5.8** |
| | 9/19/19 | 5 U | **1,200** | **14.3** | 5 U | **1,350** | **86.0** |
| | 7/24/20 | 5 U | **1,040** | **33.3** | 5 U | **962** | **8.2** |
| | 10/7/21 | 4 U | **740** | **25.9** | 4 U | **225** | 4 U |
| | 9/22/22 | 2 U | **673** | **5.5** | 2 U | **386** | **8.4** |
| **EW-6-60C** | 9/25/09 | **16.0 J** | **8,600 DJ** | **150 J** | **41 J** | **47,000 DJ** | **4.8 J** |
| | 9/29/10 | **9.5** | **6,400** | **142** | **28.1** | **25,600** | **5.9** |
| | 10/3/11 | **12.0 J** | **12,400 J** | **180 J** | **13.7 J** | **12,500 J** | **3.9 J** |
| | 10/1/12 | **10.0** | **6,590** | 500 U | **33.6** | **28,400** | **2.42** |
| | 10/18/13 | 100 U | **15,400** | **55.9 J** | 100 U | **23,000** | 100 U |
| | 8/21/14 | **14.4 J** | **4,810** | **33.3** | **32.4** | **15,500** | 0.8 J |
| | 8/24/15 | 100 U | **5,710** | 100 U | 100 U | **31,500** | 100 U |
| | 9/28/16 | **14.6** | **5,950 J** | **168** | **27.4** | **21,000 J** | **45.1** |
| | 9/26/17 | 100 U | **6,970** | **76.5 J** | 100 U | **24,300** | 100 U |
| | 9/19/19 | 10 U | **4,430** | **24.1** | 10 U | **11,500** | **16.5** |
| | 7/24/20 | 10 U | **1,190** | **10.0** | 10 U | **1,820** | 10 U |
| | 10/7/21 | 5 U | **1,200** | **7.5** | 5 U | **101** | **26.2** |
| | 9/22/22 | 2 U | **880** | 3.7 | 2 U | **142** | **4** |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **EW-7-25B** | 9/27/17 | 4.3 J | **2,480** | **29.1** | 5 U | **44.1** | **539** |
| | 7/24/20 | 20 U | **3,920** | **33.8** | 20 U | **3,500** | **25.4** |
| | 10/7/21 | 10 U | **2,400** | **89.4** | 10 U | **15.3** | 10 U |
| | 9/22/22 | 3.6 J | **2,230** | **24.4** | 5 U | **92.3** | **97.4** |
| **EW-8-62C** | 9/27/17 | **12.5 J** | **5,580** | **48.9** | 25 U | **9,870** | **174** |
| | 7/24/20 | 5 U | **1,270** | **6.3** | 5 U | **857** | 5 U |
| | 10/7/21 | 10 U | **3,820** | **30.5** | 10 U | **67** | **13.8** |
| | 9/22/22 | 10 U | **3,080** | **15.8** | 10 U | **296** | **48.5** |
| **EW-9R-72C** | 9/22/22 | 5 U | **1,730** | 5 | 5 U | **28.2** | **85.2** |
| **EW-10-25B** | 9/27/17 | 1 U | **429** | **6.3** | 1 U | **248** | 0.64 J |
| | 7/24/20 | 1 U | **236** | **6.3** | 1 U | **98.2** | **2.4** |
| | 10/7/21 | 1 U | **166** | 4.3 | 1 U | **63.2** | 1 U |
| | 9/22/22 | 1 U | **343** | 3.6 | 1 U | **124** | **4** |
| **EW-11-43C** | 7/24/20 | 20 U | **3,620** | **59.3** | 20 U | **6,420** | 20 U |
| | 10/7/21 | 100 U | **8,430** | 100 U | 100 U | **13,600** | 100 U |
| | 9/22/22 | **49.9 J** | **21,900** | **124** | 50 U | **26,600** | **587** |
| **EW-12-45C** | 7/24/20 | 5 U | **841** | 5 U | 5 U | **220** | 5 U |
| | 10/7/21 | 3.2 J | **2,100** | **6.4** | 5 U | 5 U | **150** |
| | 9/22/22 | 5 U | **2,030** | 4.7 J | 5 U | **68.8** | **44.5** |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| ***EXB-1*** | 6/10/09 | 3.2 | **3,100 D** | **51.0** | 0.78 J | **1,300 D** | **250 D** |
| ***(d)*** | 9/22/09 | 80 U | **3,400 D** | **52.0** | 0.66 J | **800 D** | **430 D** |
| | 12/17/09 | **6.5** | **2,920 D** | **36.5** | 1.3 | **2,940 D** | **176 J** |
| | 4/7/10 | **7.2** | **2,860 D** | **47.3** | 1.3 | **774 D** | **446 D** |
| | 6/29/10 | **13.0** | **4,260** | **184 J** | 1 U | **19.6** | **787** |
| | 9/29/10 | **17.2** | **8,370** | **109** | 3 | **9,580** | **187** |
| | 12/28/10 | **6.2** | **3,960** | **21.8** | 3 | **359** | **140** |
| | 3/22/11 | 4.5 | **2,450** | **23.7** | 1 U | **58.9** | **598** |
| | 6/22/11 | 4.5 | **2,090** | **28.1** | 1 U | **8,310** | **9.2** |
| | 10/3/11 | **32.0 J** | **10,000 J** | **132 J** | 2.0 J | **9,080 J** | **321 J** |
| | 12/13/11 | **8.0** | **4,850** | **106** | 1 U | **18.3** | **372** |
| | 3/29/12 | **27.3** | **14,000** | **161** | 2.5 | **6,680** | **268** |
| | 6/27/12 | **43.9 J** | **8,710** | **253 J** | 1 UJ | **9,390** | **231** |
| | 10/3/12 | 200 U | **875** | 200 U | 200 U | 200 U | **674** |
| | 12/4/12 | **5.5** | **2,300** | **36.9** | 1 U | **533** | **856** |
| | 4/3/13 | **7.9** | **1,720** | **47.5** | 1 U | **210** | **354** |
| | 6/5/13 | **20.0** | **4,800** | **60.2** | 10 U | **2,360** | **749** |
| | 10/16/13 | 10 U | **5,150** | **33.3** | 10 U | **843** | **523 J** |
| | 12/4/13 | 4.5 | **4,600** | **81.8** | 1 U | **53.9** | **363** |
| | 3/24/14 | 10 U | **2,360** | **28.6** | 10 U | **48.0** | **569** |
| | 6/17/14 | 20 U | **2,920** | **16.9 J** | 20 U | **21.1** | **1,580** |
| | 8/18/14 | **31.4 J** | **9,290** | **110** | 10 U | **3,600** | **568** |
| | 12/4/14 | **34.1** | **15,600** | **139** | 1 U | **2,070** | **467** |
| | 3/11/15 | **15.0** | **6,960** | **83.8** | 10 U | **2,060** | **607** |
| | 5/27/15 | 4.3 J | **2,330** | **29.3** | 10 U | **52.8** | **593** |
| | **----------Abandoned to Facilitate System Expansion----------** | | | | | | |
| ***EXB-2 (c)*** | 1/14/09 | 2 | **2,900 D** | **11.0** | **6.1** | **10,000 D** | **10.0** |
| | 6/9/09 | 2 | **2,100 D** | **7.3** | 2.4 | **6,200 D** | **13.0** |
| | 9/23/09 | 2 | **2,300 D** | **20.0** | **7.2** | **9,300 J** | **7.6** |
| | 12/17/09 | 3 | **2,870 D** | **11.7** | **6.1** | **7,270 D** | **16.8 J** |
| | 4/6/10 | 1 U | **2,210 D** | **21.8** | 4.3 | **5,110 D** | **14.5** |
| | 6/29/10 | **12.5** | **5,650** | **212 J** | 2.2 | **2,560** | **21.0** |
| | 9/29/10 | **8.3** | **4,750** | **189** | 1 U | **1,680** | **30.0** |
| | 12/28/10 | **6.0** | **6,740** | **32.7** | 4.1 | **7,550** | **44.7** |
| | 3/22/11 | 3.4 | **6,680** | **22.4** | 3.8 | **8,310** | **9.2** |
| | 6/22/11 | 4.6 | **4,850** | **39.2** | 3.8 | **5,320** | **157** |
| | 10/3/11 | 2.6 J | **8,080 J** | **20.1 J** | 1.9 J | **6,810 J** | **81.1 J** |
| | 12/13/11 | 1.3 | **7,880** | **59.6** | 1 U | **3,670** | **7.4** |
| | 3/28/12 | 4.7 | **5,500** | **55.2** | 1 U | **3,470** | **44.4** |
| | 6/27/12 | 4.7 J | **5,040** | **45.6 J** | 2.3 J | **7,020** | **33.1 J** |
| | 10/3/12 | 200 U | **9,760** | 200 U | 200 U | **308** | **807** |
| | 12/4/12 | 3 | **2,330** | **71.6** | 1 U | **327** | **2,070** |
| | 4/4/13 | 1 U | **2,140** | **16.7** | 1.3 | **3,550** | **9.2** |
| | 6/3/13 | 100 U | **23,300** | **214** | 100 U | **14,400** | **235** |
| | 10/16/13 | **21.6** | **7,930** | **188** | 1 U | **1,130** | **230** |
| | 12/4/13 | 3.3 | **6,730** | **68.6** | 1 U | **2,720** | **90.4** |
| | 3/24/14 | 40 U | **11,700** | **59.0** | 40 U | **6,130** | **184** |
| | 6/16/14 | 20 U | **5,890** | **37.5** | 20 U | **5,270** | **60.5** |
| | 8/19/14 | 20 U | **7,010** | **48.8** | 20 U | **7,150** | **146** |
| | 12/4/14 | **15.5** | **12,300** | **54.0** | 1 U | **4,260** | **209 J** |
| | 3/11/15 | 50 U | **10,000** | **155** | 50 U | **3,640** | **686 J** |
| | 5/27/15 | **18.6 J** | **11,500** | **94.1** | 25 U | **890** | **844** |
| | **----------Converted to Extraction Well EW-12-45C ----------** | | | | | | |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **EXB-7** | 1/14/09 | **13** | **7,500 D** | **55.0 DJ** | 1 U | **230 D** | **57.0 DJ** |
| | 6/9/09 | **6.6** | **3,400 D** | **37.0** | 1 U | **890 D** | **30.0** |
| | 9/22/09 | **9.2** | **5,000 D** | **78.0** | 80 U | **560 D** | **26.0** |
| | 12/17/09 | **5.1 J** | **2,790 D** | **45.3** | 1 U | **832 D** | **15.5 J** |
| | 4/7/10 | 3.2 | **2,120 D** | **31.1** | 1 U | **1,430 D** | **11.8** |
| | 6/29/10 | **6.5** | **2,880** | **99.2 J** | 1 U | **1,190** | **18.4** |
| | 9/29/10 | **7.8** | **4,760** | **105** | 1 U | **360** | **26.0** |
| | 12/28/10 | 2.3 | **1,560** | **27.4** | 1 U | **394** | **3.4** |
| | 3/22/11 | 1.1 | **1,080** | **11.7** | 1 U | **327** | 1.9 |
| | 6/22/11 | 2.1 | **1,480** | **21.7** | 1 U | **398** | **5.0** |
| | 10/5/11 | **7.8 J** | **3,940 J** | **65.9 J** | 1 UR | **1,850 J** | **21.4 J** |
| | 12/13/11 | **9.0** | **4,220** | **115.0** | 1 U | **22.0** | **38.5** |
| | 3/27/12 | 1.2 | **1,040** | **20.0** | 1 U | **388** | **2.8** |
| | 6/29/12 | 2.4 | **1,500** | **30.1** | 1 U | **903** | **5.3** |
| | 10/2/12 | 50 U | **3,080** | 50.0 U | 50 U | **1,290** | 50.0 U |
| | 12/4/12 | 2.4 | **1,540** | **38.1** | 1 U | **1,020** | **3.6** |
| | 4/3/13 | 5 U | **766** | **22.5** | 5 U | **469** | 5.0 U |
| | 6/5/13 | 2.6 | **1,180** | **20.7** | 1 U | **890** | **4.0** |
| | 10/16/13 | **5.4** | **2,580** | **41.2** | 1 U | **1,100** | **14.5** |
| | 12/4/13 | 1 U | **2,290** | **32.9** | 1 U | **88.6** | **9.5** |
| | 3/25/14 | 1 U | **202** | 3.2 | 1 U | **96.6** | 0.72 J |
| | 6/17/14 | 0.97 J | **368** | **8.5** | 1 U | **45.0** | **6.6** |
| | 8/19/14 | 10 U | **1,920** | **19.5** | 10 U | **63.4** | 10.0 U |
| | 12/4/14 | 0.54 J | **617** | **17.8** | 1 U | 4.1 | **15.5 J** |
| | 3/11/15 | 2 U | **1,080** | **45.1** | 2 U | **280** | 2.0 J |
| | 5/27/15 | 5 U | **1,100** | **36.6** | 5 U | **1,170** | 5 U |
| | 8/24/15 | 1.7 | **1,180** | **19.4** | 1 U | **774** | **4.2** |
| | 12/14/15 | 2.1 | **1,420** | **22.3** | 1 U | **416** | **3.4** |
| | 4/13/16 | 5 U | **1,040** | **17.4** | 5 U | **547** | **4.5 J** |
| | 7/7/16 | 10 U | **1,040** | **18.1** | 10 U | **482** | **11.0** |
| | 9/27/16 | 5 U | **1,410 J** | **28.3** | 5 U | **582** | **6.3** |
| | 11/16/16 | 10 U | **1,930** | **33.0** | 10 U | **735** | **11.0** |
| | 3/28/17 | 5 U | **980** | **17.3** | 5 U | **574** | **5.9** |
| | 6/13/17 | 2 U | **985** | **25.8** | 2 U | **486** | 1.3 J |
| | 9/26/17 | 3.1 J | **1,700** | **31.2** | 5 U | **748 J** | **3.4 J** |
| | 12/20/17 | 1.7 | **1,240** | **23.0** | 1 U | **513 J** | 1 |
| *Duplicate* | 12/20/17 | 1.7 | **843** | **22.5** | 1 U | **198 J** | 1 |
| | 3/21/18 | 5 U | **869** | **16.5** | 5 U | **426** | 5 U |
| *Duplicate* | 3/21/18 | 5 U | **872** | **16.2** | 5 U | **427** | 5 U |
| | 5/10/18 | 2.5 U | **908** | **12.6** | 2.5 U | **430** | 2.5 U |
| | 3/21/18 | 5 U | **869** | **16.5** | 5 U | **426** | 5 U |
| *Duplicate* | 3/21/18 | 5 U | **872** | **16.2** | 5 U | **427** | 5 U |
| | 5/10/18 | 2.5 U | **908** | **12.6** | 2.5 U | **430** | 2.5 U |
| | 8/28/18 | 3.8 J | **2,430** | **30.5** | 5 U | **46.2** | **6.5** |
| | 12/11/18 | 2.5 U | **1,200** | **29.9** | 2.5 U | **355** | 2.5 U |
| | 3/7/19 | 5 U | **832** | **11.9** | 5 U | **373** | 5 U |
| | 6/18/19 | 0.82 J | **636** | **11.7** | 1 U | **334** | **2.5** |
| | 9/18/19 | 0.73 J | **896** | **13.2** | 1 U | **369** | 1.1 |
| | 12/9/19 | 5 U | **962** | **16.1** | 5 U | **347** | 5 U |
| | 3/23/20 | 2 U | **936** | **18.1** | 2 U | **366** | 2 U |
| | 5/20/20 | 5 U | **1,080** | **25.7** | 5 U | **726** | 5 U |
| | 8/13/20 | 5 U | **1,160** | **52.8** | 5 U | **426** | **4.3 J** |
| | 12/14/20 | 5 U | **1,140** | **27.5** | 5 U | **402** | 5 U |
| | 3/23/21 | 5 U | **1,110** | **22.1** | 5 U | **486** | 5 U |
| | 6/22/21 | 10 U | **1,210** | **32.1** | 10 U | **365** | 10 U |
| | 9/21/21 | 3.6 J | **1,700 J** | **61.2 J** | 5 UJ | **349 J** | **4.3 J** |
| | 12/15/21 | 10 U | **2,000** | **27.4** | 10 U | **8.7 J** | **58.4** |
| | 3/23/22 | 10 U | **1,310** | **21.1** | 10 U | **393** | 10 U |
| | 6/15/22 | 5 U | **1,180** | **21** | 5 U | **320** | **10.2** |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **EXB-9** | 6/10/09 | 1 U | 1 U | 1 U | 1 U | 0.46 J | 1 U |
| | 9/22/09 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/17/09 | 1 U | 3 | 1 U | 1 U | 1 U | 1 U |
| | 4/6/10 | 1 U | **12.5** | 1 U | 1 U | 1.2 | 1 U |
| | 6/29/10 | 1 U | **5.4** | 1 UJ | 1 U | 1 U | 1 U |
| | 9/28/10 | 1 U | 4.1 | 1 U | 1 U | 1 U | 1 U |
| | 12/28/10 | 1 U | 2.6 | 1 U | 1 U | 1 U | 1 U |
| | 3/22/11 | 1 U | **5.5** | 1 U | 1 U | 1.6 | 1 U |
| | 6/22/11 | 1 U | 1.2 | 1 U | 1 U | 1 U | 1 U |
| | 10/5/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/14/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/27/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/28/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/3/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/4/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/2/13 | 1 U | 1 U | 1 U | 2.7 | 1 U | 1 U |
| | 6/3/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/16/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/5/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/25/14 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/17/14 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/19/14 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/3/14 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 UJ |
| | 3/10/15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 UJ |
| | 5/28/15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/24/15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/12/16 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 UJ |
| | 7/7/16 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/27/16 | 1 U | 1 UJ | 1 U | 0.53 U | 1 U | 1 U |
| | 11/16/16 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/28/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/13/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/26/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/19/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/21/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 UJ |
| | 5/9/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/28/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| *Duplicate* | 8/28/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/11/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/7/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/17/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/17/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/12/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/16/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 5/19/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/13/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/14/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/25/21 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/22/21 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| *Duplicate* | 6/22/21 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/21/21 | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ |
| | 12/14/21 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/22/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/15/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/19/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/19/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **EXB-10** | 1/14/09 | 1 U | **36** | 1 U | 1 U | 1 U | 1 U |
| | 9/23/09 | 1 U | **32** | 1 U | 1 U | 0.78 J | **2.9** |
| | 12/17/09 | 1 U | **31.7** | 1 U | 1 U | 1 U | **4.6** |
| | 4/6/10 | 1 U | **13.7** | 1 U | 1 U | 1.6 | 1.8 |
| | 6/29/10 | 1 U | **97.7** | 1 UJ | 1 U | 1 U | 1.2 |
| | 9/28/10 | 1 U | **16.7** | 1 U | 1 U | 1 U | **5.9** |
| | 12/28/10 | 1 U | **37.9** | 1 U | 1 U | 1 U | 1.3 |
| | 3/22/11 | 1 U | **55.4** | 1 U | 1 U | 1 U | 1 U |
| | 6/22/11 | 1 U | **8.7** | 1 U | 1 U | 1 U | 1 U |
| | 10/5/11 | 1 U | 4.4 | 1 U | 1 U | 1 U | 2.0 |
| | 12/14/11 | 1 U | **7.5** | 1 U | 1 U | 1 U | **2.7** |
| | 3/28/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/28/12 | 1 U | 4.4 | 1 U | 1 U | 1 U | 1 U |
| | 10/2/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/4/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/3/13 | 1 U | 1.5 | 1 U | 1 U | 1 U | 1 U |
| | 6/3/13 | 1 U | 3.3 | 1 U | 1 U | 1 U | **2.3** |
| | 10/16/13 | 1 U | 2.8 | 1 U | 1 U | 1 U | **2.1** |
| | 12/5/13 | 1 U | 2.6 | 1 U | 1 U | 0.51 J | 1.2 |
| | 3/25/14 | 1 U | 3 | 1 U | 1 U | 1 U | 1.2 |
| | 6/18/14 | 1 U | 2.4 | 1 U | 1 U | 1 U | 1.6 |
| | 8/19/14 | 1 U | 2.2 | 1 U | 1 U | 1 U | **2.4** |
| | 12/3/14 | 1 U | 1.2 | 1 U | 1 U | 0.51 J | 1 UJ |
| | 3/11/15 | 1 U | 3.1 | 1 U | 1 U | 0.51 J | **2.8 J** |
| | 5/27/15 | 1 U | 1.8 | 1 U | 1 U | 1 U | 1.2 |
| | 8/24/15 | 1 U | 1.4 | 1 U | 1 U | 1 U | 1.1 |
| | 12/14/15 | 1 U | 2.1 | 1 U | 1 U | 1 U | 1.2 |
| | 4/12/16 | 1 U | 1.7 | 1 U | 1 U | 1 U | 1.6 |
| | 7/6/16 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/27/16 | 1 U | 1.6 J | 1 U | 1 U | 1 U | 1.3 |
| | 11/15/16 | 1 U | 1.3 | 1 U | 1 UJ | 1 U | 1 UJ |
| | 3/29/17 | 1 U | 1.1 | 1 U | 1 U | 1 U | 0.54 J |
| | 6/13/17 | 1 U | 1.8 | 1 U | 1 U | 1 U | 1.8 |
| | 9/26/17 | 1 U | 2.1 | 1 U | 1 U | 1 U | **6.2** |
| | 12/19/17 | 1 U | 1.6 | 1 U | 1 U | 1 U | 0.97 J |
| | 3/21/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 5/9/18 | 1 U | 1.7 | 1 U | 1 U | 1 U | 0.71 J |
| | 8/28/18 | 1 U | 1.7 | 1 U | 1 U | 1 U | 1.3 |
| | 12/11/18 | 1 U | 1.4 | 1 U | 1 U | 1 U | 1.3 |
| *Duplicate* | 12/11/18 | 1 U | 1.0 U | 1 U | 1 U | 1 U | 1 U |
| | 3/6/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/18/19 | 1 U | 0.64 J | 1 U | 1 U | 1 U | 1 U |
| | 9/19/19 | 1 U | 1.0 | 1 U | 1 U | 1 U | 1.7 |
| | 12/12/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/23/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| *Duplicate* | 3/23/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 5/19/20 | 1 UJ | 1.1 | 1 U | 1 U | 1 U | 1.4 |
| | 8/13/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/15/20 | 1 U | 0.52 J | 1 U | 1 U | 1 U | 1 U |
| *Duplicate* | 12/15/20 | 1 U | 0.53 J | 1 U | 1 U | 1 U | 1 U |
| | 3/25/21 | 1 U | 1 J | 1 U | 1 U | 1 U | 1 U |
| | 6/22/21 | 1 U | 2.2 | 1 U | 1 U | 1 U | 1 U |
| | 9/21/21 | 1 UJ | 1 J | 1 UJ | 1 UJ | 1 UJ | 1 UJ |
| | 12/15/21 | 1 U | 0.77 J | 1 U | 1 U | 1 U | 1 U |
| | 3/22/22 | 1 U | 0.96 J | 1 U | 1 U | 1 U | 1 |
| | 6/15/22 | 1 U | 0.95 J | 1 U | 1 U | 1 U | 0.91 J |
| | 9/20/22 | 1 U | 2.8 | 1 U | 1 U | 1 U | 1 U |
| **EXB-11** | 9/21/22 | 5 U | **1830** | **33.6** | 5 U | **400** | **13.8** |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **MW-1B** | 4/1/09 | 1 U | 1 J | 1 U | 1 U | 1.8 | 1 U |
| | 6/8/09 | 1 U | 0.87 J | 1 U | 1 U | 1.6 | 1 U |
| | 9/22/09 | 1 U | 0.79 J | 1 U | 1 U | 1.9 | 1 U |
| | 12/18/09 | 1 U | 1 U | 1 U | 1 U | 1.8 | 1 U |
| | 4/6/10 | 1 U | 4.5 | 1 U | 1 U | **9.9** | 1 U |
| | 6/29/10 | 1 U | 1.4 | 1 UJ | 1 U | 1.7 | 1 U |
| | 9/29/10 | 1 U | 2.2 | 1 U | 1 U | 3.6 | 1 U |
| | 12/29/10 | 1 U | 1.9 | 1 U | 1 U | 2.5 | 1 U |
| | 3/25/11 | 1 U | 4.1 | 1 U | 1 U | 4.6 | 1 U |
| | 6/22/11 | 1 U | 1.1 | 1 U | 1 U | 1.6 | 1.0 U |
| | 10/4/11 | 1 U | 1.1 | 1 U | 1 U | 1 | 1 U |
| | 12/14/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/27/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/29/12 | 1 U | 4.3 | 1 U | 1 U | **6.7** | 1 U |
| | 10/3/12 | 1 U | 2.0 | 1 U | 1 U | 2.8 | 1 U |
| | 12/5/12 | 1 U | 1 U | 1 U | 1 U | 1.1 | 1 U |
| | 4/2/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/5/13 | 1 U | **20.3** | 1 U | 1 U | **28.9** | 1 U |
| | 10/18/13 | 1 U | 0.67 J | 1 U | 1 U | 1.5 | 1 U |
| | 12/5/13 | 1 U | 1.2 | 1 U | 1 U | 1.3 | 1 U |
| | 3/27/14 | 1 U | 0.83 J | 1 U | 1 U | 1.1 | 1 U |
| | 6/17/14 | 1 U | 1 U | 1 U | 1 U | 0.58 J | 1 U |
| | 8/20/14 | 1 U | 1 | 1 U | 1 U | 1.6 | 1 U |
| | 12/4/14 | 1 U | 1 U | 1 U | 1 U | 0.95 J | 1 U |
| | 3/12/15 | 1 U | 1.6 | 1 U | 1 U | 1.1 | 1 U |
| | 5/28/15 | 1 U | 2.1 | 1 U | 1 U | 4.7 | 1 U |
| | 8/24/15 | 0.84 J | **253** | 1.9 | 1 U | **484** | **6.2** |
| | 12/14/15 | 0.84 J | **200** | 1.7 | 1 U | **321** | **2.5** |
| | 4/12/16 | 1 U | 0.70 J | 1 U | 1 U | 1.0 | 1 U |
| | 7/6/16 | 1.4 J | **665** | **6.2** | 2 U | **1,210** | **13.8** |
| | 9/28/16 | 3.5 | **965 J** | **16.3** | 1.1 U | **1,400** | **34.6** |
| | 11/15/16 | 10 U | **404** | 4.4 J | 10 UJ | **462** | **5.1 J** |
| | 3/28/17 | 1 U | **17.9** | 1 U | 1 U | **29.7** | 1 U |
| | 6/14/17 | 2.5 U | **416** | **8.4** | 2.5 U | **769** | **7.2** |
| | 9/26/17 | 10 U | **663** | **7.9 J** | 10 U | **1,120** | **7.8 J** |
| | 12/18/17 | 1.2 | **434** | **5.4** | 1 U | **699** | **9.0** |
| | 3/21/18 | 1 U | 0.78 J | 1 U | 1 U | 1 J | 1 U |
| | 5/8/18 | 1 U | 4.1 | 1 U | 1 U | **8.5** | 1 U |
| | 8/29/18 | 1 U | **7.0** | 1 U | 1 U | **14.0** | 1 U |
| | 12/12/18 | 1 U | **72.0** | 0.77 J | 1 U | **115.0** | 1 U |
| | 3/5/19 | 1 U | **78.5 UJ** | 0.72 J | 1 U | **154 UJ** | 1 U |
| | 6/18/19 | 1 U | 1 U | 1 U | 1 U | 0.67 J | 1 U |
| | 9/18/19 | 1 U | **10.4** | 1 U | 1 U | **15.7** | 1 U |
| | 12/12/19 | 1 U | 1 U | 1 U | 1 U | 0.57 J | 1 U |
| | 3/18/20 | 1 U | 1.3 | 1 U | 1 U | 1.7 | 1 U |
| *Duplicate* | 3/18/20 | 1 U | 1.3 | 1 U | 1 U | 1.6 | 1 U |
| | 5/15/20 | 1 UJ | 4.4 | 1 U | 1 U | **6.5** | 1 U |
| *Duplicate* | 5/15/20 | 1 U | 4.1 | 1 U | 1 U | **6.5** | 1 U |
| | 8/12/20 | 1 U | **25.1** | 1 U | 1 U | **60** | 1 U |
| | 12/18/20 | 1 U | 0.76 J | 1 U | 1 U | 0.56 J | 1 U |
| | 3/24/21 | 1 U | 1.0 U | 1 U | 1 U | 1 U | 1 U |
| | 6/23/21 | 1 U | 4.1 | 1 U | 1 U | **7.3** | 1 U |
| | 9/22/21 | 1 UJ | **31.1 J** | 1 UJ | 1 UJ | **57.7 J** | 1 UJ |
| | 12/16/21 | 1 U | 1.0 U | 1 U | 1 U | 1.1 | 1 U |
| | 3/22/22 | 1 U | 1.0 J | 1 U | 1 U | 1.5 | 1 U |
| | 6/15/22 | 1 U | **9.5** | 1 U | 1 U | **15.4** | 1 U |
| | 9/22/22 | 1 U | 1.7 | 1 U | 1 U | 2.5 | 1 U |
| *Duplicate* | 9/22/22 | 1 U | 1.7 | 1 U | 1 U | 2.7 | 1 U |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **MW-2B** | 4/1/09 | **8.8** | **5,600 D** | **65.0** | **30.0** | **20,000 D** | **40.0** |
| | 9/22/09 | 200 U | **6,400 D** | 200 U | 200 U | **21,000 D** | **82.0 D** |
| | 4/6/10 | **14.0** | **5,510 D** | **63.8** | **28.2** | **19,500 D** | **133** |
| | 10/5/10 | **19.7** | **7,560** | **122** | **30.8** | **18,100** | **50.1** |
| | 3/24/11 | **5.7** | **5,010** | **19.9** | **14.6** | **12,200** | **21.6** |
| | 10/4/11 | **28.7 J** | **9,500 J** | **63.8 J** | **32.4 J** | **23,200 J** | **199 J** |
| | 3/27/12 | **9.9** | **3,650** | **57.5** | **13.3** | **7,010** | **24.1** |
| | 10/1/12 | 200 U | **5,900** | 200 U | 200 U | **13,800** | 200 U |
| | 4/3/13 | **10.9** | **6,420** | **30.9** | **6.0** | **9,730** | **39.8** |
| | 10/18/13 | **19.1 J** | **9,420** | **65.8** | **14.1 J** | **19,800** | **118** |
| | 3/27/14 | **40 U** | **6,230** | **24.2 J** | 40 U | **13,800** | **52.7** |
| | 8/20/14 | **15.8 J** | **5,780** | **48.7** | **12.4** | **11,700 J** | **115 J** |
| | 3/12/15 | **13.4** | **6,000** | **38.1** | **19.4** | **11,600** | **19.6** |
| | 8/24/15 | **15.9** | **6,820** | **37.5** | **16.3** | **15,700** | **69.2** |
| | 4/12/16 | 50 U | **5,960** | **26.6 J** | 50 U | **13,300** | **52.0** |
| | 9/27/16 | 50 U | **6,050 J** | **32.2 J** | 50 U | **9,730** | 50 U |
| | 3/28/17 | 50 U | **6,980** | **29.5 J** | **12.8 J** | **16,900** | 50 U |
| | 9/27/17 | 100 U | **5,970** | **58.8 J** | 100 U | **15,100** | 100 U |
| | 3/21/18 | 50 U | **4,770** | **28.1 J** | 50 U | **12,400** | 50 U |
| | 8/29/18 | 20 U | **4,580** | **32.3** | 20 U | **9,400** | **48.3** |
| | 3/5/19 | 20 U | **3,830** | **23.0** | 20 U | **7,600** | 20 U |
| | 9/19/19 | 20 U | **3,680** | **20.8** | 20 U | **7,100** | **76.8** |
| | 3/18/20 | **10.4** | **3,460** | **40.2** | **9.1** | **8,760** | **14.4** |
| | 8/12/20 | **13.8 J** | **6,260** | **27.8** | 20 U | **1,700** | **149** |
| | 3/24/21 | 20 U | **5,340** | **19.6 J** | 20 U | **12,100** | **17 J** |
| | 9/22/21 | **12.3 J** | **5,190 J** | **34 J** | 10 UJ | **8,740 J** | **142 J** |
| | 3/22/22 | 50 U | **5,090** | 50 U | 50 U | **12,300** | **55.2** |
| | 9/22/22 | 50 U | **5,720** | **31.8 J** | 50 U | **7,600** | **67.9** |
| **MW-3B** | 4/3/09 | 4.4 | **1,900 D** | **35.0** | 1.3 | **1,300 D** | **210 D** |
| | 9/22/09 | 20 U | **1,400 D** | **15.0 J** | 20 U | **310 D** | **97.0 D** |
| | 4/6/10 | 4.0 | **1,190 D** | **17.0** | 1.5 | **1,500 D** | **181** |
| | 10/5/10 | 3.3 | **1,430** | **25.1** | 1 U | **752** | **143** |
| | 3/25/11 | 1 U | **749** | **10.6** | 1 U | **77.2** | **146** |
| | 10/4/11 | **11.5 J** | **2,450 J** | **55.5 J** | 1 U | **1,900 J** | **321 J** |
| | 3/27/12 | 4.3 | **994** | **30.7** | 1 U | **456** | **200** |
| | 10/1/12 | 20 U | **1,150** | **21.1** | 20 U | **960 J** | **175** |
| | 4/2/13 | 3.0 | **337** | **9.2** | 1 U | **180** | **93.2** |
| | 10/18/13 | 2.2 | **577** | **10.5** | 1 U | **444** | **250** |
| | 3/27/14 | 2 U | **377** | **8.6** | 2 U | **69.0** | **83.5** |
| | 8/19/14 | 1.0 J | **558** | **13.8** | 1 U | **101** | **176 J** |
| | 3/11/15 | 2.4 | **723** | **16.9** | 1 U | **222** | **199 J** |
| | 8/24/15 | 1.8 | **512** | **16.8** | 1 U | **97.2** | **247** |
| | 4/12/16 | 2 U | **651** | **13.5** | 2 U | **27.9** | **183** |
| | 9/28/16 | 4 U | **957 J** | **18.4** | 4 U | **849 J** | **21.8** |
| | 3/28/17 | 0.85 J | **335** | **7.1** | 1 U | **90.8** | **80.9** |
| | 9/27/17 | 1.8 | **766** | **12.9** | 1 U | **319** | **153** |
| | 3/21/18 | 0.81 J | **315** | **6.0** | 1 U | **87.7** | **58.8** |
| | 8/29/18 | 0.96 J | **339** | 4.8 | 1 U | **175** | **91.9** |
| | 3/5/19 | 1.2 | **354** | **6.8** | 1 U | **37.2** | **119** |
| | 9/18/19 | 10 U | **2,550** | **33.8** | 10 U | **1,690** | **213** |
| | 3/18/20 | 3.8 J | **1,830** | **18.9** | 5 U | **1,850** | **16.3** |
| | 8/12/20 | 20 U | **4,160** | **34** | 20 U | **3,750** | **192** |
| | 3/24/21 | 10 U | **1,080** | **12.8** | 10 U | **1,400** | 10 U |
| | 9/22/21 | **10.3 J** | **4,160 J** | **40.5 J** | 10 UJ | **5,020 J** | **58.2 J** |
| | 12/16/21 | 10 U | **1,360** | **13.9** | 10 U | **1,770** | **14.8** |
| | 3/22/22 | 3.4 | **1,120** | **10.9** | 2 U | **1,100** | **4.3** |
| | 6/16/22 | 10 U | **2,000** | **22.7** | 10 U | **1,890** | **35.9** |
| | 9/22/22 | **16.8** | **7,150** | **149** | 1.6 | **4730** | **110** |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **MW-4B** | 4/1/09 | 1 U | 1 U | 1 U | 1 U | 0.22 J | 1 U |
| | 6/8/09 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/24/09 | 1 U | 1 U | 1 U | 1 U | 1 U | 1.2 |
| | 12/18/09 | 1 U | 1 U | 1 U | 1 U | 1 U | **4.5** |
| | 4/7/10 | 1 U | 2.2 | 1 U | 1 U | 1.4 | 1 U |
| | 6/30/10 | 1 U | 1 U | 1 UJ | 1 U | 1 U | 1.6 |
| | 9/29/10 | 1 U | 1 U | 1 U | 1 U | 1 U | **4.1** |
| | 12/29/10 | 1 U | 1 U | 1 U | 1 U | 1 U | **2.1** |
| | 3/24/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/22/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/4/11 | 1 U | 1.6 J | 1 U | 1 U | 1.6 J | **8.3 J** |
| | 12/14/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1.9 |
| | 3/27/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/29/12 | 1 U | 1 U | 1 U | 1 U | 1 U | **2.3** |
| | 10/3/12 | 1 U | 1 U | 1 U | 1 U | 1 U | **6.2** |
| | 12/5/12 | 1 U | 1.4 | 1 U | 1 U | 1 U | **15.6** |
| | 4/3/13 | 1 U | 1 U | 1 U | 1 U | 1 U | **4.2** |
| | 6/5/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1.3 |
| | 10/18/13 | 1 U | 1.3 | 1 U | 1 U | 1 U | **15.6** |
| | 12/5/13 | 1 U | 1 U | 1 U | 1 U | 1 U | **2.5** |
| | 3/27/14 | 1 U | 0.62 J | 1 U | 1 U | 1 U | **6.6** |
| | 6/17/14 | 1 U | 0.95 J | 1 U | 1 U | 1 U | **25** |
| | 8/19/14 | 1 U | 0.89 J | 1 U | 1 U | 1 U | **9.7** |
| | 12/4/14 | 1 U | 1 U | 1 U | 1 U | 1 U | **2.4 J** |
| | 3/12/15 | 1 U | 0.95 J | 1 U | 1 U | 1 U | **9.3** |
| | 5/28/15 | 1 U | 1 U | 1 U | 1 U | 1 U | **2.7** |
| | 8/24/15 | 1 U | 0.38 J | 1 U | 1 U | 1 U | **3.9** |
| | 12/14/15 | 1 U | 0.57 J | 1 U | 1 U | 1 U | **4.1** |
| | 4/12/16 | 1 U | 0.6 J | 1 U | 1 U | 1 U | **9.2** |
| | 7/6/16 | 1 U | 0.53 J | 1 U | 1 U | 1 U | **4.5 J** |
| | 9/28/16 | 1 U | 0.91 J | 1 U | 1 U | 1 U | **7.9** |
| | 11/15/16 | 1 U | 1.1 | 1 U | 1 UJ | 1 U | **11.3 J** |
| | 3/28/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 2.0 |
| | 6/12/17 | 1 U | 1 U | 1 U | 1 U | 1 U | **3.0** |
| | 9/27/17 | 1 U | 0.54 J | 1 U | 1 U | 1 U | **4.8** |
| *Duplicate* | 9/27/17 | 1 U | 0.57 J | 1 U | 1 U | 1 U | **4.8** |
| | 12/18/17 | 1 U | 0.54 J | 1 U | 1 U | 1 U | **4.4** |
| | 3/20/18 | 1 U | 1 U | 1 U | 1 U | 1 U | **4.4** |
| | 5/9/18 | 1 U | 0.69 J | 1 U | 1 U | 1 U | **5.1** |
| | 8/28/18 | 1 U | 1 U | 1 U | 1 U | 1 U | **2.2** |
| | 12/12/18 | 1 U | 0.56 J | 1 U | 1 U | 1 U | **8.0** |
| | 3/6/19 | 1 U | 0.76 J | 1 U | 1 U | 1 U | **9.7** |
| | 6/18/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1.8 |
| | 9/19/19 | 1 U | 1 U | 1 U | 1 U | 1 U | **2.1** |
| | 12/12/19 | 1 U | 1 U | 1 U | 1 U | 1 U | **2.7** |
| | 3/19/20 | 1 U | 2.1 | 1 U | 1 U | 1 U | **25.1** |
| | 5/14/20 | 1 UJ | 1.4 | 1 U | 1 U | 1 U | **14.6** |
| | 8/12/20 | 1 U | 1.2 | 1 U | 1 U | 1 U | **14.9** |
| | 12/18/20 | 1 U | 0.84 J | 1 U | 1 U | 1 U | **10.2** |
| | 3/24/21 | 1 U | 1.2 | 1 U | 1 U | 1 U | **14.7** |
| | 6/23/21 | 1 U | 0.88 J | 1 U | 1 U | 1 U | **9.6** |
| | 9/22/21 | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ | **6.3 J** |
| | 12/15/21 | 1 U | 1 U | 1 U | 1 U | 1 U | 1.4 |
| | 3/22/22 | 1 U | 1 U | 1 U | 1 U | 1 U | **5.3** |
| *Duplicate* | 3/22/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/15/22 | 1 U | 1 U | 1 U | 1 U | 1 U | **4.8** |
| | 9/21/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1.4 |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **MW-5B** | 1/14/09 | **43.0** | **19,000 D** | 800 UD | **89** | **52,000 D** | **700 DJ** |
| | 9/23/09 | 80 U | **5,800 D** | **49.0 J** | 80 U | **5,200 D** | **140 D** |
| | 12/21/09 | 2.3 | **1,210 D** | **24.1** | 1.3 | **657 D** | **52.9** |
| | 4/6/10 | **6.4** | **3,990 D** | **101** | **10.2** | **3,750 D** | **257** |
| | 6/30/10 | 1.4 J | **1,410** | **20.3** | 1.7 | **781** | **10.3** |
| | 9/29/10 | **12.4** | **7,140** | **123** | **11.5** | **4,450** | **511** |
| | 12/29/10 | **17.7** | **10,400** | **81.3** | **15.1** | **6,660** | **491** |
| | 3/25/11 | 1.5 | **967** | **10.1** | 3.8 | **1,330** | **5.6** |
| | 6/22/11 | 1 U | **407** | 4.8 | 1 U | **297** | 1 U |
| | 10/4/11 | 2.8 J | **1,510 J** | **18.4 J** | 1 UR | **161 J** | 1 UR |
| | 12/14/11 | 4.8 | **2,480** | **29.3** | 1 U | **399** | **89.7** |
| | 3/27/12 | **6.0** | **4,420** | **59.6** | 3.5 | **3,450** | **55** |
| | 6/29/12 | 1.5 | **713** | **11.8** | 1 U | **338** | **116** |
| | 10/3/12 | 20 U | **279** | 20 U | 20 U | **40.6** | **151** |
| | 12/5/12 | 4.7 | **1,250** | **38.6** | 1 U | **261** | **314** |
| | 4/3/13 | 5 U | **918** | **18.1** | 5 U | **406** | **52.8** |
| | 6/5/13 | 10 U | **1,130** | 10 U | 10 U | **512** | 10 U |
| | 10/18/13 | 5 U | **1,950** | **29.7** | 5 U | **352** | **249** |
| | 12/5/13 | 1 U | **975** | **10.8** | 0.94 J | **347** | **12.7** |
| | 3/27/14 | 2 U | **515** | **6.8** | 2 U | **272** | **5.6** |
| | 6/17/14 | 5 U | **507** | **6.7** | 5 U | **1160** | **29.8** |
| | 8/20/14 | 2 U | **694** | **12.9** | 2 U | **120** | **105 J** |
| | 12/4/14 | 1.1 | **527** | **9.1** | 0.94 J | **542** | **51 J** |
| | 3/11/15 | 2 U | **342** | **7.0** | 1.3 J | **742** | 1.7 J |
| | 5/28/15 | 1.4 J | **760** | **14.0** | 1.3 J | **727** | **6.4** |
| | 8/24/15 | 2.2 | **716** | **11.5** | 2.7 | **1,200** | **44.9** |
| | 12/14/15 | 3 | **880** | **13.7** | 5 | **1,560** | **25** |
| | 4/12/16 | 2 U | **584** | **13.1** | 1.3 J | **649** | **6.5** |
| | 7/7/16 | 10 U | **705** | **9.6 J** | 10 U | **875** | 10 U |
| | 9/28/16 | 4 U | **870 J** | **14.8** | 1.8 U | **573** | **26.4** |
| | 11/15/16 | 5 U | **791** | **12.5** | 1.7 J | **682** | **15.4 J** |
| | 3/28/17 | 0.42 J | **226** | **5.4** | 1.3 | **591** | **2.3** |
| | 6/14/17 | 2.5 U | **199** | **5.6** | 2.1 J | **864** | **9.4** |
| | 9/27/17 | 1.1 J | **521** | **8.1** | 2.2 | **961** | **8.8** |
| | 12/19/17 | 0.64 J | **331** | **6.6** | 0.83 J | **527** | 1.1 |
| | 3/21/18 | 1 U | **223** | 4.8 | 1 U | **143** | **29.2** |
| | 5/9/18 | 1 U | **135** | 3.8 | 0.62 J | **232** | **16.1** |
| | 8/29/18 | 1 U | **88.4** | 2.2 | 1 U | **248** | **19.1** |
| | 12/12/18 | 1 U | **53.5** | 1.2 | 1 U | **198** | 1.0 |
| | 3/6/19 | 1 U | **104** | 2.1 | 1 U | **478** | 1 U |
| | 6/19/19 | 1 U | **133 J** | 2.7 | 0.99 J | **316** | 1.3 |
| *Duplicate* | 6/19/19 | 1 U | **161** | 2.8 | 1 U | **313** | **2.7** |
| | 9/19/19 | 2.5 U | **454** | **5.6** | 2.5 U | **479** | **4.4** |
| | 12/12/19 | 5 U | **528** | **8.0** | 5 U | **722** | 5 U |
| | 3/18/20 | 5 U | **644** | **17.8** | 5 U | **575** | **5.4** |
| | 5/15/20 | 5 UJ | **394** | **11.5** | 5 U | **696** | 5 U |
| | 8/12/20 | 5 U | **898** | **18.7** | 5 U | **924** | **16.3** |
| | 12/18/20 | 1 U | **260** | **8.7** | 1 U | **375** | 1 U |
| | 3/24/21 | 1 U | **298** | **9.9** | 1 U | **491** | 1.9 |
| | 6/23/21 | 0.81 J | **384** | **10.2** | 1 U | **290** | **22.3** |
| | 9/22/21 | 1.2 J | **393 J** | **8 J** | 1.3 J | **552 J** | **3.2 J** |
| | 12/16/21 | 5 U | **538** | **8.5** | 5 U | **802** | **9.1** |
| | 3/22/22 | 1 U | **118** | 4.5 | 1.1 | **375** | 1.4 |
| | 6/15/22 | 1 U | **329** | **10.2** | 1.2 | **656** | **2.1** |
| | 9/22/22 | 1.5 | **795** | **11.7** | 0.81 J | **554** | **27.7** |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **MW-5-25** | 6/14/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/26/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/19/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/23/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 5/9/18 | 1 U | **6.4** | 1 U | 1 U | 2.7 | 1 U |
| | 8/29/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/12/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/6/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/19/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/19/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/12/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/12/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/16/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/23/21 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/23/21 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/21/21 | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ |
| | 12/14/21 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/23/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/15/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/20/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| **MW-5-40** | 4/1/09 | **22.0** | **12,000 D** | **92.0 DJ** | 2.0 | **11,000 D** | **510 D** |
| | 9/22/09 | 200 U | **16,000** | **200** U | 200 U | **28,000 D** | **270** |
| | 4/7/10 | **23.2** | **13,400 D** | **177** | 3.6 | **6,540 D** | **390** |
| | 10/4/10 | **28.7** | **11,400** | **128** | **5.3** | **5,550** | **314** |
| | 3/25/11 | **5.7** | **18,000** | **111** | 2.7 | **6,390** | **774** |
| | 10/4/11 | **7.7 J** | **6,720 J** | **48.1 J** | 3.8 | **6,760 J** | **384 J** |
| | 3/28/12 | **11.2** | **10,200** | **89.1** | 4.0 | **6,600** | **314** |
| | 10/4/12 | 200 U | **9,780** | 200 U | 200 U | **6,840** | **460** |
| | 4/3/13 | **21.6** | **8,470** | **149** | 2.5 | **4,050** | **452** |
| | 10/18/13 | **25.8** | **13,100** | **96.4** | 20.0 U | **9,580** | **711** |
| | 3/27/14 | 50 U | **10,900** | **101** | 50 U | **6,080** | **657** |
| | 8/20/14 | 20 U | **7,740** | **112** | 20 U | **4,920** | **563 J** |
| | 3/11/15 | **20.2** | **6,820** | **151** | 3.0 | **2,320** | **565** |
| | 8/24/15 | **19.1** | **8,180** | **224** | 4.8 | **5,370** | **969** |
| | 4/12/16 | **17.7 J** | **12,700** | **237** | 20 U | **1,550** | **1,140** |
| | 9/27/16 | 50 U | **12,000 J** | **143** | 50 U | **4,490** | **683** |
| | 3/28/17 | **22.5 J** | **12,300** | **192** | 25 U | **4,430** | **505** |
| | 6/14/17 | **30.0** | **15,100** | **264** | 25 U | **3,720** | **878** |
| | 9/26/17 | **47.3 J** | **19,000** | **284** | 100 U | **4,600** | **939** |
| | 12/19/17 | **36.9** | **16,500** | **232** | 10 U | **3,230** | **975** |
| | 3/20/18 | **29.6 J** | **15,400** | **270** | 50 U | **2,500** | **1,190** |
| | 5/9/18 | **33.9 J** | **18,100** | **294** | 50 U | **2,000** | **1,000** |
| | 8/29/18 | 50 U | **16500** | **256** | 50 U | **3,780** | **733** |
| | 12/12/18 | 50 U | **13,600** | **176** | 50 U | **2,630** | **909** |
| | 3/6/19 | **22.5 J** | **9,840** | **226** | 25 U | **3,910** | **852** |
| | 6/19/19 | **27.1** | **11,400** | **247** | 1.8 | **3,040** | **979** |
| | 9/19/19 | **24.0** | **12,200** | **325** | 5 U | **1,310** | **1,010** |
| | 12/10/19 | 25 U | **4,640** | **18.6 J** | 25 U | **49.8** | **164** |
| | 3/20/20 | **20.6** | **10,100** | **318** | 20 U | **2,840** | **1,600** |
| | 5/14/20 | **20.6** | **9,130** | **233** | 20 U | **2,790 J** | **884** |
| | 8/12/20 | **16.7 J** | **10,200** | **263** | 25 U | **2,320** | **1,310** |
| Duplicate | 8/12/20 | **16.9 J** | **9,830** | **242** | 20 U | **2,200** | **1,240** |
| | 12/17/20 | **6.9 J** | **3,760** | **133** | 10 U | **1,020** | **1,150** |
| | 3/24/21 | **16.9** | **8,600** | **327** | 10 U | **1,460** | **1,280** |
| | 6/23/21 | **21.1** | **8,370** | **158** | 20 U | **54.6** | **2,400** |
| | 9/22/21 | 100 UJ | **10,900 J** | **68.4 J** | 100 UJ | **287 J** | **1,580 J** |
| | 12/14/21 | 50 U | **10,800** | **155** | 50 U | **307** | **6,750** |
| | 3/23/22 | **6.6 J** | **5,830** | **123** | 10 UR | **766** | **5,780** |
| | 6/16/22 | 50 U | **6,260** | **58.6** | 50 U | **3,030** | **1,500** |
| | 9/20/22 | 10 U | **2,420** | **101** | 10 U | **33** | **4,250** |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **MW-5-100** | 4/1/09 | 1 U | **17** | 0.31 J | 1 U | 0.98 J | **5.9** |
| | 6/10/09 | 1.5 | **1,600 D** | **25** | 0.74 J | **580 D** | 1 U |
| | 9/22/09 | 1 U | **23.0** | 1 U | 1 U | 2.8 | **5.2** |
| | 4/7/10 | 1 U | **37.3** | 1 U | 1 U | 4.7 | **5.4** |
| | 10/4/10 | 1 U | **39.9** | 1 U | 1 U | 1.8 | **13.1** |
| | 3/25/11 | 1 U | **13.5** | 1 U | 1 U | 2.2 | **7.3** |
| | 6/29/12 | 1 U | **7.1** | 1 U | 1 U | 1 U | **5.8** |
| | 10/4/12 | 1 U | 3.72 | 1 U | 1 U | 2.95 | 1.72 |
| | 4/3/13 | 1 U | 3.5 | 1 U | 1 U | 1 U | **3.7** |
| | 10/18/13 | 1 U | 2.5 | 1 U | 1 U | 1.4 | **2.5** |
| | 3/27/14 | 1 U | 2.0 | 1 U | 1 U | 1 U | **3.3** |
| | 8/19/14 | 1 U | 2.5 | 1 U | 1 U | 2.6 | **3.6 J** |
| | 3/11/15 | 0.90 J | **20.0** | 0.77 J | 1 U | 0.57 J | **42.9** |
| | 8/24/15 | 1 U | 3.2 | 0.79 J | 1 U | 0.41 J | **14.5** |
| | 4/12/16 | 1 U | 2.2 | 1 U | 1 U | 1 U | **4.5** |
| | 9/28/16 | 1 U | 2.1 J | 1 U | 1 U | 0.54 J | 1.5 |
| | 3/29/17 | 1 U | 2.0 | 1 U | 1 U | 0.26 J | 1.5 |
| | 9/27/17 | 1 U | 2.3 | 1 U | 1 U | 0.53 J | **2.1** |
| | 3/20/18 | 1 U | 2.2 | 1 U | 1 U | 0.39 J | 1.8 |
| | 8/29/18 | 1 U | 2.5 | 1 U | 1 U | 1 U | 1.8 |
| | 3/6/19 | 1 U | 2.2 | 1 U | 1 U | 1 U | 1.5 |
| | 9/19/19 | 1 U | 2 | 1 U | 1 U | 1 U | 1.4 |
| | 3/20/20 | 1 U | 2 | 1 U | 1 U | 1 U | 1.1 |
| | 8/12/20 | 1 U | 2 | 1 U | 1 U | 1 U | 1.5 |
| | 3/24/21 | 1 U | 2.2 | 1 U | 1 U | 1 U | 1.4 |
| | 9/21/21 | 0.68 J | **554 J** | 2.7 J | 1 UJ | 4.6 J | **95.3 J** |
| | 3/23/22 | 1 U | **70.4** | 1 U | 1 U | 0.72 | **16.1** |
| | 6/16/22 | 1 U | **78.9** | 1 U | 1 U | 0.99 J | **48.0** |
| | 9/21/22 | 1 U | **33.4** | 1 U | 1 U | 1 U | **35.4** |
| **MW-7B** | 3/11/15 | 1.7 | **951** | **10.8** | 1 U | 3.0 | **401** |
| | 4/12/16 | 1 UJ | 1.3 J | 1 UJ | 1 UJ | 0.79 J | 1 UJ |
| | 9/27/16 | 1 UJ | 1.3 J | 1 UJ | 1 UJ | 0.79 J | 1 UJ |
| | 3/29/17 | 1 U | **5.1** | 1 U | 1 U | 0.63 J | **2.4** |
| | 6/13/17 | 1 U | **251** | 1.7 | 1 U | **13.5** | **97.9** |
| | 9/28/17 | 1 U | **11.8** | 1 | 1 U | 0.73 J | **76.2** |
| | 12/19/17 | 1 U | 1.0 | 1 U | 1 U | 1 U | **3.4** |
| | 3/20/18 | 1 U | 0.54 J | 1 U | 1 U | 0.36 J | 1.5 |
| | 5/8/18 | 1 U | **199** | 1.1 | 1 U | **175** | **11.3** |
| | 8/29/18 | 1 U | **25.4** | 1 U | 1 U | **11.5** | 2 |
| | 12/12/18 | 1 U | **17.0** | 1 U | 1 U | 3.2 | 1 U |
| | 3/5/19 | 1 U | **5.3** | 1 U | 1 U | 0.84 J | 1 U |
| | 6/19/19 | 1 U | **8.9** | 1 U | 1 U | 0.84 J | 1 U |
| | 9/17/19 | 1 U | **182** | 1.6 | 1 U | **46.3** | **43.0** |
| | 12/11/19 | 1 U | 2.2 | 1 U | 1 U | 1 U | 1 U |
| | 3/19/20 | 1 U | **111** | 0.74 J | 1 U | **19.9** | **13.2** |
| | 5/13/20 | 1 UJ | **29** | 1 U | 1 U | **10.1** | **2.9** |
| | 8/12/20 | 1 U | **115** | 0.87 J | 1 U | 4.5 | **86.8** |
| | 12/16/20 | 1 U | **52** | 1 U | 1 U | **12.2** | **7.9** |
| | 3/23/21 | 1 U | **139** | 0.78 J | 1 U | **39.7** | **15.9** |
| | 6/23/21 | 1 U | 4.0 | 1 U | 1 U | 1 U | 1 U |
| | 9/21/21 | 2.5 UJ | **207 J** | 1.4 J | 2.5 UJ | **9.6 J** | **40 J** |
| | 12/14/21 | 0.72 J | **346** | 1.5 | 1 U | **118** | **30.3** |
| | 3/22/22 | 1 U | **10** | 1 U | 1 U | 1.6 | 1.1 |
| | 6/16/22 | 1 U | 1.3 | 1 U | 1 U | 1 U | 1 U |
| | 9/21/22 | 1 U | 1.7 | 1 U | 1 U | 1 U | 1 U |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **MW-7-40** | 4/2/09 | 1 U | **33.0** | 1.5 | 1 U | 1 U | **30.0** |
| | 6/11/09 | 1 U | **140 D** | 2.3 | 1 U | 0.51 J | **4.1** |
| | 9/23/09 | 1 U | **97.0** | 2.0 | 1 U | 1 U | **29.0** |
| | 4/8/10 | 1 U | **227** | 1.6 | 1 U | 1 U | **8.2** |
| | 10/6/10 | 1 U | **145** | 1.0 | 1 U | 1 U | **10.7** |
| | 3/25/11 | 1 U | **150** | 1 U | 1 U | 3.2 | **17.7** |
| | 10/4/11 | 1 U | **267** | 2.9 | 1 U | 1 U | **42.7** |
| | 3/27/12 | 1 U | **206** | 1.1 | 1 U | 1 U | **38.3** |
| | 10/4/12 | 5 U | **130** | 5 U | 5 U | 5 U | **32.9** |
| | 4/4/13 | 1 U | **155** | 1.6 | 1 U | 1 U | **33.4** |
| | 3/26/14 | 1 U | **138** | 1.4 | 1 U | 1 U | **22.6** |
| | 8/19/14 | 1 U | **218** | 2.4 | 1 U | 1 U | **31.9** |
| | 3/12/15 | 1 U | **115** | 0.85 J | 1 U | 1 U | **14.5** |
| | 8/24/15 | 1 U | **161** | 1.30 | 1 U | 1 U | **33.2** |
| | 4/14/16 | 1 U | **156** | 1.1 | 1 U | 1 U | **64.9** |
| | 9/28/16 | 1 U | **133 J** | 0.95 J | 1 U | 0.79 J | **39.4** |
| | 3/31/17 | 1 U | **88.6** | 1 U | 1 U | 1 U | **29.3** |
| | 9/29/17 | 1 U | **88.2** | 0.4 J | 1 U | 1 U | **38.9** |
| | 3/23/18 | 1 U | **104** | 0.76 J | 1 U | 1 U | **27.2** |
| *Duplicate* | 3/23/18 | 1 U | **102** | 0.65 J | 1 U | 1 U | **25.7** |
| | 8/31/18 | 1 U | **179** | 3.1 | 1 U | 1 U | **23.2** |
| | 3/7/19 | 1 U | **84.7** | 1 U | 1 U | 1 U | **27.6** |
| | 9/18/19 | 1 U | **75.6** | 1 U | 1 U | 1 U | **30.3** |
| | 3/23/20 | 1 U | **127** | 0.83 J | 1 U | 1 U | 1 U |
| | 8/13/20 | 1 U | **83** | 0.54 J | 1 U | 1 U | **22.2** |
| | 3/23/21 | 1 U | **124** | 0.84 J | 1 U | 1 U | 0.81 J |
| | 9/21/21 | 1 UJ | **86 J** | 1.1 J | 1 UJ | 1 UJ | **15.2 J** |
| | 3/24/22 | 1 U | 1 | 1 U | 1 U | 1 U | 1 U |
| | 9/21/22 | 1 U | **150** | 2.2 | 1 U | 1 U | **41.5** |
| **MW-8B** | 3/29/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/13/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/26/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/19/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/20/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 5/8/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/29/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/12/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/5/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/19/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/19/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/11/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/19/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 5/13/20 | 1 UJ | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/11/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/16/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/23/21 | 1 U | 0.63 J | 1 U | 1 U | 1 U | 1 U |
| | 6/23/21 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/21/21 | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ |
| | 12/14/21 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/23/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/15/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/20/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **MW-8-40** | 4/3/09 | 1 U | 1 U | 1 U | 1 U | 0.74 J | 1 U |
| | 6/9/09 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/24/09 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/8/10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/7/10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/23/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/4/11 | 1 UR | 1 UR | 1 UR | 1 UR | 1 UR | 1 UR |
| | 3/27/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/3/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/3/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/28/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/27/14 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/19/14 | 1 U | 1 U | 1 U | 1 U | 1 UJ | 1 U |
| | 3/16/15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/24/15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/14/16 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/27/16 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 3/31/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/28/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/21/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/30/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| *Duplicate* | 8/30/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/8/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/19/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/11/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/18/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/13/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/25/21 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/23/21 | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ |
| | 3/22/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/22/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| **MW-9-100** | 3/23/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| *Duplicate* | 3/23/22 | 1 U | 1 U | 1 U | | | |
| **MW-12C** | 6/13/17 | 1 U | 4.8 | 1 U | 1 U | 1.3 | 0.66 J |
| | 12/20/17 | 1 U | **6.8** | 1 U | 1 U | 0.91 J | 0.84 J |
| | 3/20/18 | 1 U | **5.6** | 1 U | 1 U | 0.75 J | 0.68 J |
| | 5/9/18 | 1 U | 4.2 | 1 U | 1 U | 0.48 J | 1 U |
| | 8/29/18 | 1 U | 3.8 | 1 U | 1 U | 0.79 J | 1 U |
| | 12/12/18 | 1 U | 3.0 | 1 U | 1 U | 1.1 | 1 U |
| | 3/6/19 | 1 U | 3.0 | 1 U | 1 U | 1 U | 1 U |
| | 6/19/19 | 1 U | 2.2 | 1 U | 1 U | 0.60 J | 1 U |
| | 9/18/19 | 1 U | 2.7 | 1 U | 1 U | 0.72 J | 1 U |
| | 12/9/19 | 1 U | 2.0 | 1 U | 1 U | 1 U | 1 U |
| | 3/20/20 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U |
| | 5/13/20 | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U |
| | 8/12/20 | 1 U | 0.71 J | 1 U | 1 U | 1 U | 1 U |
| | 12/16/20 | 1 U | 1.4 | 1 U | 1 U | 1 U | 1 U |
| | 3/24/21 | 1 U | 1.8 J | 1 U | 1 U | 1 U | 1 U |
| | 6/22/21 | 1 U | 1.5 | 1 U | 1 U | 1 U | 1 U |
| | 9/21/21 | 1 UR | 2.2 J | 1 UR | 1 UR | 0.57 J | 1 UR |
| | 12/14/21 | 1 U | 3.1 | 1 U | 1 U | 0.55 J | 1 U |
| | 3/22/22 | 1 U | 1.7 | 1 U | 1 U | 1 U | 1 U |
| | 6/16/22 | 1 U | 1.1 | 1 U | 1 U | 1 U | 1 U |
| | 9/21/22 | 1 U | 1.5 | 1 U | 1 U | 1 U | 1 U |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **MW-13C** | 6/13/17 | 1.7 | **740** | 2.3 | 1 U | **365** | **10.2** |
| | 9/26/17 | 1.1 | **590** | 2.1 | 1 U | **333** | **10.8** |
| | 12/20/17 | 0.58 J | **460** | 0.68 J | 1 U | **333** | **5.3** |
| | 3/20/18 | 1 U | **360** | 1 U | 1 U | **307** | **4.7** |
| | 5/10/18 | 2 U | **312** | 2 U | 2 U | **236** | **8.0** |
| | 8/29/18 | 1 U | **296** | 1 U | 1 U | **323** | **2.5** |
| | 12/9/19 | 1 U | **263** | 1 U | 1 U | **302** | **6.2** |
| | 3/20/20 | 1 U | **232 J** | 1 U | 1 U | **230 J** | 1.2 J |
| | 5/13/20 | 1 UJ | **245** | 1 U | 1 U | **234** | **12.3** |
| | 8/12/20 | 1 U | **115** | 1 U | 1 U | **178** | 1 U |
| | 12/16/20 | 1 U | **183** | 1 U | 1 U | **225** | **2.6** |
| | 3/24/21 | 1 U | **181** | 1 U | 1 U | **287** | **4.6** |
| | 6/22/21 | 1 U | **165** | 1 U | 1 U | **210** | **3.9** |
| | 9/22/21 | 2 UJ | **131 J** | 2 UJ | 2 UJ | **288 J** | **6.6 J** |
| | 12/14/21 | 1 U | **289 J** | 1 U | 1 U | **195** | **3.1** |
| | 3/23/22 | 1 U | **189** | 1 U | 1 U | **177** | **2.1** |
| | 9/21/22 | 1 U | **163** | 1 U | 1 U | **219** | 1.7 |
| **MW-15C** | 6/13/17 | 2.5 U | **899** | 3.6 | 2.5 U | **791** | **9.3** |
| | 9/28/17 | 2.5 J | **1,440** | **7.1** | 5 U | **973** | **7.2** |
| | 12/19/17 | 2.7 | **1,100** | **6.8** | 0.74 J | **728** | **9.7** |
| | 3/20/18 | 1.3 J | **740** | **9.1** | 2 U | **248** | **46.3** |
| | 5/10/18 | 4 U | **699** | **5.5** | 4 U | **175** | **21.5** |
| | 8/28/18 | 2.5 U | **1,050** | **8.1** | 2.5 U | **829** | **3.4** |
| | 12/12/18 | 5 U | **851** | 3.6 J | 5 U | **560** | 5 U |
| | 3/6/19 | 2 U | **866** | 5 | 2 U | **178** | **12.4** |
| | 6/21/19 | 1 U | **47.0** | 0.63 J | 1 U | **79.5** | **4.9** |
| | 9/18/19 | 2.5 U | **677** | 4.7 | 2.5 U | **409** | **11.0** |
| | 12/9/19 | 5 U | **1,110** | **5.5** | 5 U | **58.3** | **26.4** |
| | 8/12/20 | 5 U | **1,070** | **5.4** | 5 U | **331** | **28.2** |
| | 12/17/20 | 2 U | **650** | **5.9** | 2 U | **324** | **31.3** |
| | 3/24/21 | 1 U | **285** | 1.4 | 1 U | **166** | **21.1** |
| | 6/22/21 | 1 U | **143** | 1 U | 1 U | **15.8** | **3.2** |
| | 9/21/21 | 2.5 UR | **273 J** | 1.4 J | 2.5 UR | **277 J** | **133 J** |
| | 12/16/21 | 1 U | **362** | 1.2 | 1 U | **390** | **21.4** |
| | 3/22/22 | 1 U | **186** | 0.72 J | 1 U | **128** | **10.7** |
| | 6/16/22 | 1 U | **196** | 1.5 | 1 U | **58.4** | **9.6** |
| | 9/20/22 | 0.61 J | **451** | 1.7 | 1 U | 4.7 | **19.1** |
| **MW-16-100** | 4/2/09 | 0.63 J | **600 D** | 4.6 | 1 U | 1.4 | **56.0** |
| | 6/9/09 | 1.1 | **770 D** | 3.6 | 1 U | 0.91 J | **93.0** |
| | 9/24/09 | 10 U | **780** | 4.9 J | 10 U | 10 U | **76.0** |
| | 4/6/10 | 1 U | **501 D** | 1.6 | 1 U | 2.8 | **99.4** |
| | 10/6/10 | 1 U | **65.3** | 1 U | 1 U | 1 U | **28.3** |
| | 10/6/11 | 1 UR | **165 J** | 1.9 J | 1 UR | 1 UR | **146 J** |
| | 3/27/12 | 1 U | **293** | 2.3 | 1 U | 1 U | **84.5** |
| | 10/4/12 | 1 U | **176** | 1.28 | 1 U | **6.49** | **49.9** |
| | 4/4/13 | 1 U | **162** | 1 U | 1 U | 1 U | **33.1** |
| | 10/18/13 | 1 U | **51.0** | 1 U | 1 U | 1 U | **25.3 J** |
| | 3/26/14 | 1 U | **137** | 0.75 J | 1 U | 1 U | **23.5** |
| | 8/20/14 | 1 U | **138** | 1 U | 1 U | 2.3 | **41.0** |
| | 3/12/15 | 1 U | **80.9** | 0.53 J | 1 U | 1 U | **34.2** |
| | 8/24/15 | 1 U | **42.4** | 1.30 | 1 U | 1 U | **45.6** |
| | 4/14/16 | 1 U | **47.1** | 1.00 U | 1 U | 1 U | **48.8** |
| | 9/27/16 | 1 U | **22.2 J** | 1.00 U | 1 U | 1 U | **10.6** |
| | 3/30/17 | 1 U | **54.9** | 1.00 U | 1 U | 1 U | **21.6** |
| | 9/29/17 | 1 U | **47.7** | 1.00 U | 1 U | 1 U | **11.7** |
| | 3/23/18 | 1 U | **37.7** | 1 U | 1 U | 1 U | **21.9** |
| | 8/31/18 | 1 U | **18.9** | 1 U | 1 U | 1 U | **13.0** |
| | 3/7/19 | 1 U | **32.8** | 1 U | 1 U | 1 U | **19.0** |
| | 9/17/19 | 1 U | **6.7** | 1 U | 1 U | 1 U | **2.5** |
| *Duplicate* | 9/17/19 | 1 U | **8.2** | 1 U | 1 U | 1 U | **2.9** |
| | 3/24/20 | 1 U | **39.4** | 1 U | 1 U | 1 U | **99.6** |
| | 8/11/20 | 1 U | **22.3** | 1 U | 1 U | 1 U | **114** |
| | 3/23/21 | 1 U | **8.7** | 1 U | 1 U | 1 U | **54.4** |
| | 9/21/21 | 1 UJ | 1 J | 1 UJ | 1 UJ | 1 UJ | **17.1 J** |
| | 3/23/22 | 1 UR | 1.0 U | 1 U | 1 UR | 1 U | 1 U |
| | 9/21/22 | 1 U | 4 | 1 U | 1 U | 1 U | **19** |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **MW-17-40** | 4/2/09 | 1 U | 1 U | 1 U | 1 U | 0.22 J | 1 U |
| | 6/9/09 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/22/09 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/7/10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/6/10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/24/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/5/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/27/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/3/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/3/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/17/13 | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ |
| | 3/26/14 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/19/14 | 1 U | 1 U | 1 U | 1 U | 1 UJ | 1 U |
| | 3/12/15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/24/15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/14/16 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/27/16 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 3/29/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/28/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/22/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/30/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/6/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/18/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/17/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/11/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/22/21 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/22/21 | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ |
| | 3/24/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| *Duplicate* | 3/24/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/22/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| **MW-18A** | 4/1/09 | 1 U | 0.37 J | 1 U | 1 U | 0.88 J | 1 U |
| | 9/24/09 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/7/10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/7/10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/24/11 | 1 U | 4.8 | 1 U | 1 U | 4.5 | 1.2 |
| | 10/5/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/27/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/3/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/2/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/18/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/25/14 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/18/14 | 1 U | 2.7 | 1 U | 1 U | 2.0 | 1 U |
| | 3/12/15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/24/15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/12/16 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/26/16 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 3/29/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/28/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/22/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/29/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/8/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/19/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/17/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/13/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/25/21 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/23/21 | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ |
| | 3/22/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/22/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **MW-19A (d)** | | | | | | | |
| | 4/1/09 | 1 U | 1 U | 1 U | 1 U | 0.33 J | 1 U |
| | 9/22/09 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/7/10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/5/10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/24/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/5/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/27/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/2/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/3/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/17/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/25/14 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/18/14 | 1 U | 5.0 | 1 U | 1 U | 3.3 | 1 U |
| | 3/12/15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/24/15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/14/16 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/26/16 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 3/30/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/28/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/21/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Others---------- | | | | | | | |
| **MW-20B** | 4/1/09 | 1 U | 1 U | 1 U | 1 U | 0.25 J | 1 U |
| | 9/24/09 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/18/09 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/7/10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/5/10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/23/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/4/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/14/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/27/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/29/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/3/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/3/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/18/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/26/14 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/19/14 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/16/15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/24/15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/13/16 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 UJ |
| | 9/26/16 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 3/30/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/27/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/21/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/29/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/8/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| *Duplicate* | 3/8/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/19/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/19/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/18/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/13/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/25/21 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/23/21 | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ |
| | 3/22/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/21/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **MW-21B (d)** | 4/2/09 | 1 U | 1 U | 1 U | 1 U | 3.0 | 1 U |
| | 9/24/09 | 1 U | 1 U | 1 U | 0.49 J | **5.4** | 1 U |
| | 4/8/10 | 1 U | 1 U | 1 U | 1 U | 2.9 | 1 U |
| | 10/5/10 | 1 U | 1 U | 1 U | 1 U | 3.1 | 1 U |
| | 3/23/11 | 1 U | 1.3 | 1 U | 1 U | 2.8 | 1 U |
| | 10/5/11 | 1 U | 1 U | 1 U | 1 U | 2.1 | 1 U |
| | 3/29/12 | 1 U | 1 U | 1 U | 1 U | 2.0 | 1 U |
| | 10/3/12 | 1 U | 1 U | 1 U | 1 U | 2.0 | 1 U |
| | 4/2/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/18/13 | 1 U | 1 U | 1 U | 1 U | 0.69 J | 1 U |
| | 3/26/14 | 1 U | 1 U | 1 U | 1 U | 1.3 | 1 U |
| | 8/19/14 | 1 U | 1 U | 1 U | 1 U | 1.6 J | 1 U |
| | 3/12/15 | 1 U | 1 U | 1 U | 1 U | 1.2 | 1 U |
| | 8/24/15 | 1 U | 1 U | 1 U | 1 U | 1.9 | 1 U |
| | 4/12/16 | 1 U | 1 U | 1 U | 1 U | 1.4 | 1 U |
| | 9/27/16 | 1 U | 1 UJ | 1 U | 1 U | 2.9 | 1 U |
| | 3/29/17 | 1 U | 1 U | 1 U | 1 U | 1.5 | 1 U |
| | 9/29/17 | 1 U | 1 U | 1 U | 1 U | 2.9 | 1 U |
| | 3/21/18 | 1 U | 1 U | 1 U | 1 U | 1.2 | 1 U |
| | 8/31/18 | 1 U | 1 U | 1 U | 1 U | 1.7 | 1 U |
| Others---------- | | | | | | | |
| **MW-22B** | 4/2/09 | 1 U | 0.65 J | 0.71 J | 1 U | 0.36 J | 1 U |
| | 9/24/09 | 1 U | 1.3 | 0.57 J | 1 U | 1 U | 1.1 |
| | 4/8/10 | 1 U | 1.6 | 1 U | 1 U | 1 U | 1 U |
| | 10/5/10 | 1 U | 1 U | 1 U | 1 U | 1 U | **3.1** |
| | 3/23/11 | 1 U | 2.3 | 1 U | 1 U | 1.1 | 1.8 |
| | 10/5/11 | 1 U | 1.4 | 1 U | 1 U | 1 U | 1 U |
| | 3/27/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/3/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/2/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/18/13 | 1 U | 0.68 J | 1 U | 1 U | 0.71 J | 1 U |
| | 3/25/14 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/20/14 | 1 U | 1 U | 1 U | 1 U | 0.55 J | 1 UJ |
| | 3/12/15 | 1 U | 0.73 J | 1 U | 1 U | 0.28 J | 1.1 |
| | 8/24/15 | 1 U | 1.1 | 1 U | 1 U | 1 U | 1.3 |
| | 4/12/16 | 1 U | 0.65 J | 1 U | 1 U | 1 U | 1.5 |
| | 9/26/16 | 1 U | 1.1 J | 1 U | 1 U | 1 U | 2 |
| | 3/29/17 | 1 U | 0.71 J | 1 U | 1 U | 1 U | 1.2 |
| | 9/28/17 | 1 U | 1.1 | 1 U | 1 U | 1 U | 1.6 |
| | 9/28/17 | 1 U | 1.2 | 1 U | 1 U | 1 U | 1.7 |
| | 3/21/18 | 1 U | 0.61 J | 1 U | 1 U | 1 U | 1.7 |
| | 8/31/18 | 1 U | 0.55 J | 1 U | 1 U | 1 U | 1.2 |
| | 3/8/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/19/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/17/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/13/20 | 1 U | 1 J | 1 U | 1 U | 1 U | 1 |
| | 3/25/21 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/23/21 | 1 UJ | 1 J | 1 UJ | 1 UJ | 1 UJ | 1 UJ |
| | 3/22/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/22/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **MW-23B (d)** | 1/14/09 | 1 U | **5.8** | 1 U | 0.5 J | 0.53 J | 1 U |
| | 4/2/09 | 1 U | 1 U | 1 U | 1.0 J | 0.52 J | 1 U |
| | 6/10/09 | 1 U | 1 U | 1 U | 0.68 J | 1 U | 1 U |
| | 9/24/09 | 1 U | 1 U | 1 U | 0.77 J | 1 U | 1 U |
| | 12/18/09 | 1 U | 1 U | 1 U | 2.0 | 1.2 | 1 U |
| | 4/7/10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/29/10 | 1 U | 1 U | 1 UJ | 1 U | 1 U | 1 U |
| | 10/5/10 | 1 U | 1 U | 1 U | 1.2 | 1 U | 1 U |
| | 12/29/10 | 1 U | 1 U | 1 U | 1.1 | 1.1 | 1 U |
| | 3/23/11 | 1 U | 4.3 | 1 U | 1 U | 2.2 | 1 U |
| | 10/4/11 | 1 U | 1 U | 1 U | 1.7 | 1 U | 1 U |
| | 12/14/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/27/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/29/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/3/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/5/12 | 1 U | 1 U | 1 U | 1.0 | 1 U | 1 U |
| | 4/3/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 6/3/13 | 1 U | 1 U | 1 U | 1.1 | 0.80 J | 1 U |
| | 10/18/13 | 1 U | 1 U | 1 U | 1.2 | 0.52 J | 1 U |
| | 12/6/13 | 1 U | 1 U | 1 U | 1 U | 0.53 J | 1 U |
| | 3/27/14 | 1 U | 1 U | 1 U | 0.78 J | 1 U | 1 U |
| | 6/17/14 | 1 U | 1 U | 1 U | 1.1 J | 0.79 J | 1 U |
| | 8/19/14 | 1 U | 1 U | 1 U | 1.0 | 1 U | 1 U |
| | 12/3/14 | 1 U | 1 U | 1 U | 1.0 | 0.43 J | 1 UJ |
| | 3/11/15 | 1 U | 1 U | 1 U | 0.77 J | 0.54 J | 1 UJ |
| | 5/26/15 | 1 U | 1 UJ | 1 U | 0.75 J | 1 U | 1 UJ |
| | 8/24/15 | 1 U | 1 U | 1 U | 1 U | 0.45 J | 1 U |
| | 12/16/15 | 1 U | 1 U | 1 U | 1.2 | 0.41 J | 1 UJ |
| | 4/13/16 | 1 U | 1 U | 1 U | 0.59 J | 1 U | 1 U |
| | 7/6/16 | 1 U | 1 U | 1 U | 0.83 J | 1 U | 1 U |
| | 9/26/16 | 1 U | 1 UJ | 1 U | 0.92 J | 0.51 J | 1 U |
| | 11/15/16 | 1 U | 1 U | 1 U | 0.93 UJ | 1 U | 1 UJ |
| | 3/30/17 | 1 U | 1 U | 1 U | 0.41 J | 1 U | 1 U |
| | 6/15/17 | 1 U | 1 U | 1 U | 0.72 J | 0.32 J | 1 U |
| Others---------- | | | | | | | |
| ***MW-24B*** ***(d)*** | 4/2/09 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/23/09 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/7/10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/6/10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/23/11 | 1 U | 1.1 | 1 U | 1 U | 1 U | 1 U |
| | 10/6/11 | 1 U | 1.1 | 1 U | 1 U | 1 U | 1 U |
| | 3/27/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/3/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/30/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/18/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/26/14 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/19/14 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/24/15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/14/16 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| ----------Abandoned Due to Construction---------- | | | | | | | |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **MW-25A** | 4/1/09 | 1 U | 0.30 J | 1 U | 1 U | 0.57 J | 1 U |
| | 9/23/09 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/7/10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/7/10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/24/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/5/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/27/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/2/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/2/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/18/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/25/14 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/19/14 | 1 U | 1.5 | 1 U | 1 U | 0.87 J | 1 U |
| | 3/12/15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/24/15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/13/16 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/26/16 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 9/26/16 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 3/29/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/28/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/22/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/29/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/8/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/19/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/17/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/13/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| *Duplicate* | 8/13/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/24/21 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/23/21 | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ |
| | 3/22/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/22/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| **MW-26A** | 4/1/09 | 1 U | 0.33 J | 1 U | 1 U | 0.56 J | 1 U |
| | 9/24/09 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/7/10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/7/10 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/24/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/5/11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/27/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/3/12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/2/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 10/18/13 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/26/14 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/19/14 | 1 U | 1 U | 1 U | 1 U | 1 UJ | 1 U |
| | 3/12/15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/24/15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 4/13/16 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/26/16 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 9/26/16 | 1 U | 1 UJ | 1 U | 1 U | 1 U | 1 U |
| | 3/29/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/28/17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/22/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/31/18 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/8/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/19/19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/17/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 8/13/20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/25/21 | 1 U | 0.53 J | 1 U | 1 U | 1 U | 1 U |
| | 9/23/21 | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ | 1 UJ |
| | 3/22/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 9/22/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **MW-30B** | 6/11/09 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 12/18/09 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | 3/23/22 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| **MW-31B** | 3/23/22 | 2 U | 0.9 J | 1 U | 1 U | **15** | 2 U |
| **MW-32B** | 1/14/09 | 1 U | **200 D** | 1.4 | 1 U | **140 D** | 1 U |
| | 4/1/09 | 1 U | **240 D** | 2 | 1 U | **170 D** | 1 U |
| | 6/10/09 | 1 U | **190 D** | 1.1 | 1 U | **160 D** | 1 U |
| | 9/24/09 | 2 U | **130** | 0.84 J | 2 U | **130** | 2 U |
| | 12/18/09 | 1 U | **73** | 1 U | 1 U | **95.9** | 1 U |
| | 4/6/10 | 1 U | **132** | 1 U | 1 U | **107** | 1 U |
| | 6/29/10 | 1 U | **94** | 1 UJ | 1 U | **80.2** | 1 U |
| | 10/5/10 | 1 U | **67.9** | 1 U | 1 U | **49.1** | 1 U |
| | 12/29/10 | 1 U | **78.9** | 1 U | 1 U | **46.4** | 1 U |
| | 3/23/11 | 1 U | **50.8** | 1 U | 1 U | **33.9** | 1 U |
| | 10/4/11 | 1 UR | **57.0 J** | 1 UR | 1 UR | **59.3 J** | 1 UR |
| | 12/14/11 | 1 U | **28.2** | 1 U | 1 U | **43.1** | 1 U |
| | 3/27/12 | 1 U | **51.1** | 1 U | 1 U | **60.9** | 1 U |
| | 6/29/12 | 1 U | **45.8** | 1 U | 1 U | **77.6** | 1 U |
| | 10/3/12 | 1 U | **37.3** | 1 U | 1 U | **30** | 1 U |
| | 12/5/12 | 1 U | **38.7** | 1 U | 1 U | **58.4** | 1 U |
| | 4/3/13 | 1 U | **44.4** | 1 | 1 U | **60.8** | 1 U |
| | 6/3/13 | 1 U | **23.9** | 1.9 | 1 U | **75** | 1 U |
| | 10/18/13 | 1 U | **34.2** | 0.7 J | 1 U | **64.4** | 1 U |
| | 12/6/13 | 1 U | **13.4** | 1 U | 1 U | **38.3** | 1 U |
| | 3/26/14 | 1 U | **25.1** | 0.56 J | 1 U | **39.2** | 1 U |
| | 6/17/14 | 1 U | **15.0** | 1 U | 1 U | **53.3** | 1 U |
| | 8/19/14 | 1 U | **19.8** | 1 U | 1 U | **45.4** | 1 U |
| | 12/3/14 | 1 U | **15.2** | 1 U | 1 U | **32.8** | 1 UJ |
| | 3/11/15 | 1 U | **11.4** | 1 U | 1 U | **11.5** | 1 UJ |
| | 5/26/15 | 1 U | **16.0 J** | 1 U | 1 UJ | **50.0** | 1 UJ |
| | 8/24/15 | 1 U | **17.8** | 1 U | 1 U | **49.9** | 1 U |
| | 12/16/15 | 1 U | **8.6** | 1 U | 1 U | **34.6** | 1 UJ |
| | 4/13/16 | 1 U | **10.5** | 1 U | 1 U | **36.6** | 1 U |
| | 7/6/16 | 1 U | **13.2** | 1 U | 1 U | **56.1** | 1 U |
| | 9/26/16 | 1 U | **13.4 J** | 1 U | 0.45 J | **53.9** | 1 U |
| | 11/15/16 | 1 U | **8.0** | 1 U | 0.37 UJ | **34.2** | 1 UJ |
| | 3/30/17 | 1 U | **8.7** | 1 U | 1 U | **27.2** | 1 U |
| | 6/14/17 | 1 U | **14.5** | 0.47 J | 1 U | **39.9** | 1 U |
| | 9/27/17 | 1 U | **10.3** | 1 U | 1 U | **49.0** | 1 U |
| | 12/20/17 | 1 U | **13.0** | 1 U | 1 U | **31.4** | 1 U |
| | 3/21/18 | 1 U | **14.2** | 0.4 J | 1 U | **25.8** | 1 U |
| | 5/10/18 | 1 U | **9.4** | 0.52 J | 1 U | **38.7** | 1 U |
| | 8/29/18 | 1 U | **13.5** | 1 U | 1 U | **58.2** | 1 U |
| | 12/12/18 | 1 U | **6.7** | 1 U | 1 U | **23.6** | 1 U |
| | 3/8/19 | 1 U | **11.8** | 1 U | 1 U | **24.4** | 1 U |
| | 6/18/19 | 1 U | **7.3** | 1 U | 1 U | **32.2** | 1 U |
| | 9/17/19 | 1 U | **10.3** | 1 U | 1 U | **41.0** | 1 U |
| Duplicate | 9/17/19 | 1 U | **8.2** | 1 U | 1 U | 1 U | **2.9** |
| | 5/15/20 | 1 UJ | **7.3** | 1 U | 1 U | **32.8** | 1 U |
| | 8/13/20 | 1 U | **12.3** | 1 U | 1 U | **56.5** | 1 U |
| | 12/17/20 | 1 U | **6.9** | 1 U | 1 U | **30.6** | 1 U |
| | 3/24/21 | 1 U | **9.0** | 1 U | 1 U | **23.4** | 1 U |
| | 9/23/21 | 1 UJ | **16 J** | 1 UJ | 1 UJ | **19.5 J** | 1 UJ |
| | 12/16/21 | 1 U | **7.1** | 1 U | 1 U | **23.4** | 1 U |
| | 3/22/22 | 1 U | **13.2** | 1 U | 1 U | **22.2** | 1 U |
| | 9/20/22 | 1 U | **7.8** | 1 U | 1 U | **35.1** | 1 U |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **MW-36B** | 6/14/17 | 1 U | **496** | **5.6** | 1 U | **67.2** | 1 U |
| | 3/20/18 | 0.58 J | **303** | 3.5 | 1 U | **25.7** | **146** |
| | 5/8/18 | 1 U | **200** | 3.6 | 1 U | **13.5** | **19.1** |
| | 6/19/19 | 1 U | **194** | 2.7 | 1 U | **22.6** | **9.2** |
| | 9/17/19 | 1 U | **45.8** | 0.55 J | 1 U | **9.2** | 1 U |
| | 12/11/19 | 1 U | **48.9** | 1.4 | 1 U | 3.5 | **9.1** |
| | 3/20/20 | 1 U | **239** | 2.4 | 1 U | 3.4 | **51.1** |
| | 5/13/20 | 1 UJ | **189** | 2.3 | 1 U | **5.1** | **10.7** |
| | 12/16/20 | 1 U | **82.3** | 1.1 | 1 U | 2 | **61.1** |
| | 3/23/21 | 1 U | **130** | 1.4 | 1 U | 2.4 | **50.1** |
| | 6/23/21 | 0.92 J | **577** | 4 | 1 U | **20.9** | **90.9** |
| | 9/21/21 | 1 UJ | **64.2 J** | 0.94 J | 1 UJ | 2.6 J | **55.8 J** |
| | 12/16/21 | 1 U | **60.3** | 0.75 J | 1 U | 2.2 | **22.3** |
| | 3/23/22 | 1 U | **132** | 1.7 | 1 U | 3.9 | **63.6** |
| | 6/15/22 | 1 U | **59.9** | 0.73 U | 1 U | 3.7 | **21.1** |
| | 9/20/22 | 1 U | **10.0** | 1 U | 1 U | **5.6** | 1 U |
| **MW-46-43C** | 8/17/17 | 50 U | **19,800** | **106** | 50 U | **8,710** | **562** |
| | 9/26/17 | **30.3 J** | **17,900** | **112** | 50 U | **7,900** | **589** |
| | 12/19/17 | **34.5** | **21,500** | **107** | 25 U | **3,830** | **889** |
| | 3/20/18 | 100 U | **16,200** | **96.5 J** | 100 U | **8,470** | **987** |
| | 5/8/18 | **36.1 J** | **18,600** | **135** | 50 U | **8,220** | **944** |
| | 8/28/18 | **41.1 J** | **29,700** | **173** | 50 U | **9,900** | **1,260** |
| | 12/12/18 | 100 U | **22,200** | **117** | 100 U | **4,750** | **1,260** |
| | 3/5/19 | 200 U | **24,200** | **155 J** | 200 U | **6,720** | **1,250** |
| | 6/19/19 | **34.3** | **19,100** | **115** | 25 U | **6,650** | **1,110** |
| | 9/17/19 | **52.8** | **25,700** | **148** | 25 U | **5,140** | **1,740** |
| | 12/10/19 | **36.1 J** | **22,700** | **145** | 50 U | **3,950** | **1,080** |
| | 3/20/20 | **38.1 J** | **22,300** | **136** | 50 U | **5,340** | **1,490** |
| | 5/13/20 | 100 UJ | **23,900** | **158 J** | 100 UJ | **4,860 J** | **1,220 J** |
| | 8/11/20 | 100 U | **25,200** | **143** | 100 U | **4,140** | **1,650** |
| | 12/17/20 | **32.4 J** | **21,500** | **119** | 50 U | **3,180** | **1,560** |
| | 3/23/21 | **37.7 J** | **25,200** | **115** | 50 U | **4,370** | **1,590** |
| | 6/22/21 | **39.0** | **18,300 J** | **137 J** | 25 U | **3,600 J** | **1,890 J** |
| | 9/22/21 | 100 UJ | **6,740 J** | **85.1 J** | 100 UJ | 100 UJ | **13,400 J** |
| | 12/14/21 | 20 U | **6,160** | **72.3** | 20 U | 20 U | **6,100** |
| | 3/23/22 | **22.5 J** | **13,000** | **99.5** | 25 UR | **144** | **5,670** |
| | 6/15/22 | 100 U | **14,500** | **104** | 100 U | **57 J** | **8,700** |
| | 9/20/22 | 100 U | **14,600** | **112** | 100 U | 100 U | **8,960** |
| **MW-46-72C** | 8/17/17 | 100 U | **1,370** | 100 U | **95.1 J** | **19,800** | 100 U |
| | 9/26/17 | 100 U | **3,160** | 100 U | **95.2 J** | **17,900** | 100 U |
| | 12/19/17 | **24.8** | **15,500** | **66.3** | **23.4** | **7,260** | **40.7** |
| | 3/20/18 | 50 U | **11,600** | **46.8 J** | **43.1 J** | **9,660** | 50 U |
| | 5/8/18 | **20.8 J** | **9,780** | **57.9** | **18.2 J** | **6,850** | **62.9** |
| *Duplicate* | 5/8/18 | 50 U | **16,000** | **60.1** | 50 U | **8,050 J** | **59.5** |
| | 8/28/18 | **24.2 J** | **14,200** | **100** | 25 U | **8,810** | **276** |
| | 12/12/18 | **15.5 J** | **7,940** | **41.7** | 25 U | **7,570** | **815** |
| | 3/5/19 | 100 U | **8,630** | 100 U | 100 U | **19,300** | **220** |
| *Duplicate* | 3/5/19 | 25 U | **7,720** | **23.3 J** | 25 U | **18,500** | **232** |
| | 6/19/19 | **20.1 J** | **14,700** | **55.5** | 25 U | **15,700** | **201** |
| | 9/18/19 | 25 U | **4,720** | **30.5** | **25.2** | **12,800** | **108** |
| | 12/10/19 | **27.5** | **24,700** | **165** | **25.9** | **20,500** | **285** |
| *Duplicate* | 12/10/19 | **38.2 J** | **28,300** | **180** | 50 U | **13,600** | **275** |
| | 3/20/20 | 50 U | **14,500** | **54.6** | 50 U | **23,400** | **87.1** |
| | 5/13/20 | **20.4 J** | **9,740** | **58.7** | 25 U | **14,500** | **87.6** |
| | 8/12/20 | 200 U | **12,200** | 200 U | 200 U | **48,200** | 200 U |
| | 12/16/20 | **18.4 J** | **13,000** | **50.1** | 25 U | **3,750** | **178** |
| | 3/24/21 | 20 U | **9,140** | **33.7** | 20 U | **4,570** | **199** |
| *Duplicate* | 3/24/21 | 20 U | **8,490** | **37.9** | 20 U | **5,420** | **212** |
| | 6/23/21 | **18.6 J** | **12,900** | **39.3** | 25 U | **2,460** | **820** |
| | 9/21/21 | 50 UJ | **16,400 J** | **133 J** | 50 UJ | **1,610 J** | **4,940 J** |
| *Duplicate* | 9/21/21 | **12.9 J** | **16,300 J** | **112 J** | 5 UJ | **962 J** | **7,700 J** |
| | 12/16/21 | **98 J** | **59,800** | **412** | 100 U | **4,870** | **2,680** |
| | 3/23/22 | **82 J** | **51,300** | **291** | 100 U | **4,280** | **2,150** |
| | 6/15/22 | 100 U | **22,200** | **119** | 100 U | **1,570** | **1,310** |
| *Duplicate* | 6/15/22 | **52.1** | **22,300** | **213** | 5 U | **1,310** | **1,090** |
| | 9/20/22 | 20 U | **11,200** | **42** | 20 U | **1,090** | **964** |

**Table 10**

**Historical Groundwater Sampling Results**
**Former Emerson Power Transmission**
**Ithaca, New York (a)**

| Well ID | Date | *1,1-Dichloroethene* | *cis-1,2-Dichloroethene* | *trans-1,2-Dichloroethene* | *Tetrachloroethene* | *Trichloroethene* | *Vinyl Chloride* |
|---|---|---|---|---|---|---|---|
| **Evaluation Criteria (b)** | | **5** | **5** | **5** | **5** | **5** | **2** |
| **MW-47A** | 9/21/21 | 1 U | 1.3 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| **MW-48A** | 9/21/21 | 1 U | 0.66 J | 1.0 U | 1.0 U | 1.2 | 1.0 U |
| **MW-49A** | 9/21/21 | 1 U | 1.0 U | 1.0 U | 1.0 U | 0.81 J | 1.0 U |
| **MW-50-160D** | | **7.5 J** | **5,010** | **27.5** | 10 U | **117** | **1,300** |
| | 3/23/22 | 25 U | **4,520** | **27.3** | 25 U | **61** | **2,280** |
| | 6/15/22 | 10 U | **2,600** | **15.5** | 10 U | **50** | **785** |
| | 9/20/22 | 10 U | **3,150** | **17.1** | 10 U | **23** | **1,120** |
| *Duplicate* | 9/20/22 | 10 U | **3,200** | **16.8** | 10 U | **24** | **1,080** |

a/ All results are reported in micrograms per liter (µg/l). U = analyte not detected above Reporting Limit; J = estimated concentration below the Reporting Limit and greater than or equal to the Method Detection Limit; D = concentration is from a secondary dilution analysis; UJ = non-detects with estimated quantitation limits due to failed quality control sample calibration(s) for that analyte; UR = The quality control associated with the analyte indicates uncertainty with the reported limits (spike/surrogate failed the recovery limits).

b/ Concentrations highlighted and in bold text exceed evaluation criteria. Concentrations in bold text indicate the laboratory method detection limit exceeds evaluation criteria. Evaluation criteria are the New York State Ambient Water Quality Standards or Guidance Values for Class GA groundwater provided in the New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1), dated June 1998, and the April 2000 Addendum.

c/ EXB-2 has been converted to extraction well EW-12-45C.

d/ Abandoned wells

# APPENDIX

# A LABORATORY ANALYTICAL REPORTS

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*
*Automated Report*



## Technical Report for

WSP Environment & Energy

Former Ithaca Power Transmission, Ithaca, NY

31401545.001 Task 01.62

SGS Job Number: JD49019

Sampling Date: 07/27/22

Report to:

WSP
5411 SkyCenter Drive Suite 650
Tampa, FL 33607
Jeffrey.Baker@wsp.com

ATTN: Jeffrey Baker

Total number of pages in report: 34

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.



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Sections: 1 2 3 4 5 6

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SGS North America Inc.

# Sample Summary

WSP Environment & Energy

**Job No:** JD49019

Former Ithaca Power Transmission, Ithaca, NY
Project No: 31401545.001 Task 01.62

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Matrix Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| This report contains results reported as ND = Not detected. The following applies: | | | | | | | |
| Organics ND = Not detected above the MDL | | | | | | | |
| JD49019-1 | 07/27/22 | 10:40 | NW | 07/28/22 | AQ | Water | WPOST GAC |
| JD49019-2 | 07/27/22 | 10:50 | NW | 07/28/22 | AQ | Water | WMID GAC |
| JD49019-3 | 07/27/22 | 10:55 | NW | 07/28/22 | AQ | Water | WAS |
| JD49019-4 | 07/27/22 | 11:00 | NW | 07/28/22 | AQ | Influent | WINF |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | WSP Environment & Energy | **Job No:** | JD49019 |
| **Site:** | Former Ithaca Power Transmission, Ithaca, NY | **Report Date** | 8/4/2022 11:24:41 AM |

On 07/28/2022, 4 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 4.3 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD49019 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

## MS Volatiles By Method SW846 8260D

**Matrix:** AQ **Batch ID:** V2B8773

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD48921-3MS, JD48921-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

**Matrix:** AQ **Batch ID:** V3D7580

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD49019-1MS, JD49019-2DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 1,2-Dibromo-3-chloropropane are outside control limits. High percent recovery and no associated positive reported in the QC batch.
- Matrix Spike Recovery(s) for 1,2-Dibromo-3-chloropropane are outside control limits.
- JD49019-1, -2, -3, 4 for Acetone, Bromomethane, 2-Butanone (MEK), 1,2-Dibromo-3-chloropropan, 2-Hexanone, Methyl Acetate, 4-Methyl-2-pentanone(MIBK), 1,1,2,2-Tetrachloroethane: Associated CCV outside of control limits high, sample was ND.
- JD49019-1, -2, -3, 4 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD49019-1, -2, -3, -4 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

# Summary of Hits



**Job Number:** JD49019
**Account:** WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY
**Collected:** 07/27/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **JD49019-1** | **WPOST GAC** | | | | | |
| cis-1,2-Dichloroethene | | 2.4 | 1.0 | 0.51 | ug/l | SW846 8260D |
| **JD49019-2** | **WMID GAC** | | | | | |
| Chloroform | | 0.64 J | 1.0 | 0.50 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 6.9 | 1.0 | 0.51 | ug/l | SW846 8260D |
| **JD49019-3** | **WAS** | | | | | |
| No hits reported in this sample. | | | | | | |
| **JD49019-4** | **WINF** | | | | | |
| cis-1,2-Dichloroethene | | 425 | 10 | 5.1 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene | | 2.7 | 1.0 | 0.54 | ug/l | SW846 8260D |
| Trichloroethene | | 124 | 1.0 | 0.53 | ug/l | SW846 8260D |
| Vinyl chloride | | 11.8 | 1.0 | 0.79 | ug/l | SW846 8260D |

## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOST GAC | | |
| **Lab Sample ID:** | JD49019-1 | **Date Sampled:** | 07/27/22 |
| **Matrix:** | AQ - Water | **Date Received:** | 07/28/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Former Ithaca Power Transmission, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 3D179787.D | 1 | 07/30/22 00:20 | BK | n/a | n/a | V3D7580 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [a] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) [a] | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropan [c] | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 2.4 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone [a] | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOST GAC | | |
| **Lab Sample ID:** | JD49019-1 | **Date Sampled:** | 07/27/22 |
| **Matrix:** | AQ - Water | **Date Received:** | 07/28/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Former Ithaca Power Transmission, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate [a] | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK [a] | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane [a] | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 91% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 96% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 102% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WMID GAC | | |
| **Lab Sample ID:** | JD49019-2 | **Date Sampled:** | 07/27/22 |
| **Matrix:** | AQ - Water | **Date Received:** | 07/28/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Former Ithaca Power Transmission, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 3D179788.D | 1 | 07/30/22 00:44 | BK | n/a | n/a | V3D7580 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [a] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) [a] | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | 0.64 | 1.0 | 0.50 | ug/l | J |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropan [c] | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 6.9 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone [a] | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WMID GAC | | |
| **Lab Sample ID:** | JD49019-2 | **Date Sampled:** | 07/27/22 |
| **Matrix:** | AQ - Water | **Date Received:** | 07/28/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Former Ithaca Power Transmission, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate [a] | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK [a] | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane [a] | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 92% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 97% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WAS | | |
| **Lab Sample ID:** | JD49019-3 | **Date Sampled:** | 07/27/22 |
| **Matrix:** | AQ - Water | **Date Received:** | 07/28/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Former Ithaca Power Transmission, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 3D179794.D | 1 | 07/30/22 03:05 | BK | n/a | n/a | V3D7580 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [a] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) [a] | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropan [c] | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone [a] | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WAS | | |
| **Lab Sample ID:** | JD49019-3 | **Date Sampled:** | 07/27/22 |
| **Matrix:** | AQ - Water | **Date Received:** | 07/28/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Former Ithaca Power Transmission, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate [a] | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK [a] | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane [a] | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 92% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 97% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 102% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WINF | | |
| **Lab Sample ID:** | JD49019-4 | **Date Sampled:** | 07/27/22 |
| **Matrix:** | AQ - Influent | **Date Received:** | 07/28/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Former Ithaca Power Transmission, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 3D179795.D | 1 | 07/30/22 03:28 | BK | n/a | n/a | V3D7580 |
| Run #2 | 2B193367.D | 10 | 08/01/22 15:18 | ED | n/a | n/a | V2B8773 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [a] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) [a] | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropan [c] | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 425 [d] | 10 | 5.1 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 2.7 | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone [a] | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WINF | | |
| **Lab Sample ID:** | JD49019-4 | **Date Sampled:** | 07/27/22 |
| **Matrix:** | AQ - Influent | **Date Received:** | 07/28/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | Former Ithaca Power Transmission, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate [a] | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK [a] | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane [a] | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 124 | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 11.8 | 1.0 | 0.79 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 93% | 98% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | 108% | 80-120% |
| 2037-26-5 | Toluene-D8 | 96% | 102% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 105% | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(d) Result is from Run# 2

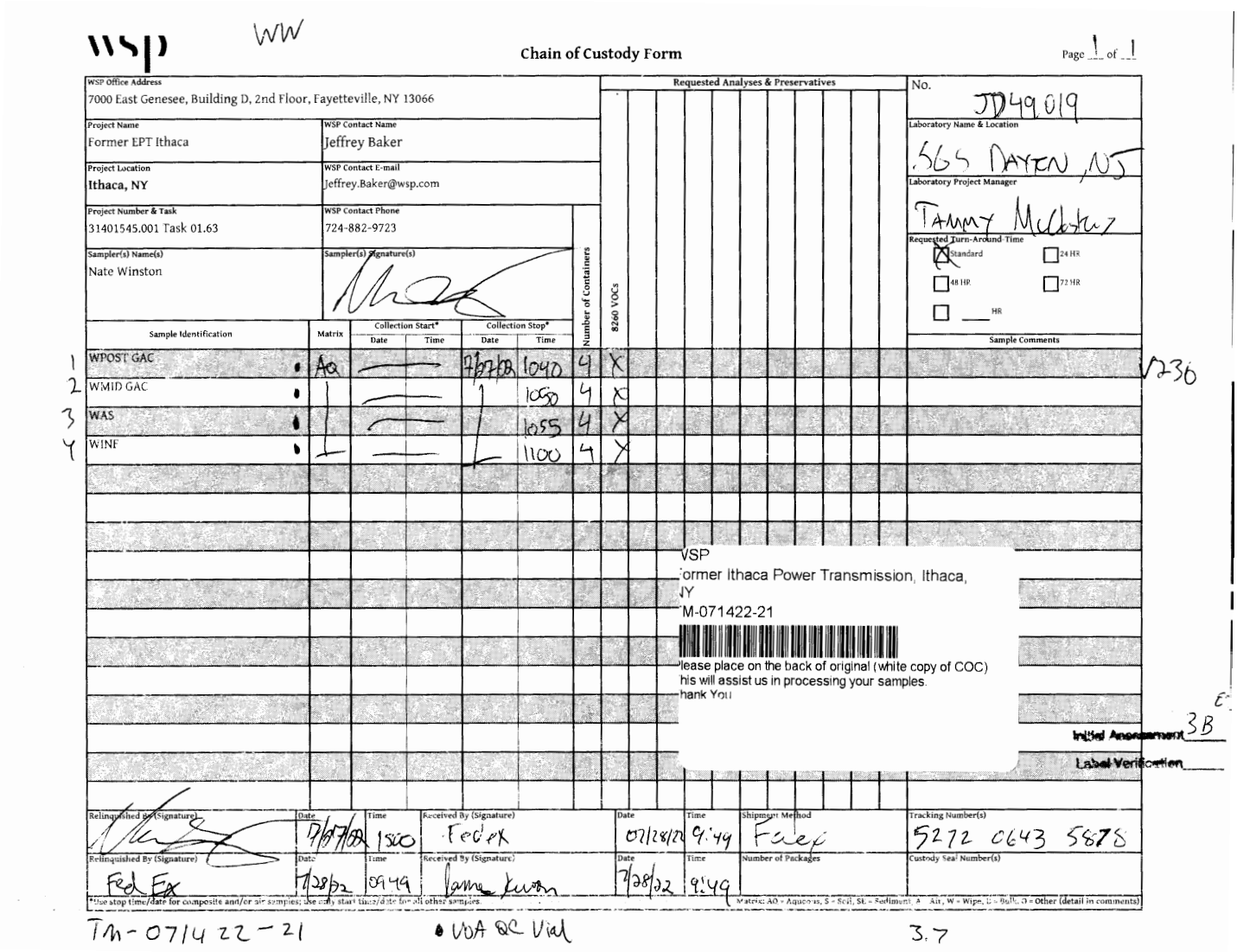
ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

## Misc. Forms

# Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



wsp WW

Chain of Custody Form

Page 1 of 1

WSP Office Address: 7000 East Genesee, Building D, 2nd Floor, Fayetteville, NY 13066

Project Name: Former EPT Ithaca
WSP Contact Name: Jeffrey Baker
Project Location: Ithaca, NY
WSP Contact E-mail: Jeffrey.Baker@wsp.com
Project Number & Task: 31401545.001 Task 01.63
WSP Contact Phone: 724-882-9723
Sampler(s) Name(s): Nate Winston
Sampler(s) Signature(s):

Requested Analyses & Preservatives

No. JD49019
Laboratory Name & Location: 565 DAYTON, NJ
Laboratory Project Manager: TAMMY McCLATCHEY
Requested Turn-Around-Time: [X] Standard [ ] 24 HR [ ] 48 HR [ ] 72 HR [ ] ___ HR

| | Sample Identification | Matrix | Collection Start* Date | Collection Start* Time | Collection Stop* Date | Collection Stop* Time | Number of Containers | 8260 VOCs | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| 1 | WPOST GAC | AQ | | | 7/27/22 | 1040 | 4 | X | V236 |
| 2 | WMID GAC | " | | | " | 1050 | 4 | X | |
| 3 | WAS | " | | | " | 1055 | 4 | X | |
| 4 | WINF | " | | | " | 1100 | 4 | X | |

VSP
Former Ithaca Power Transmission, Ithaca, NY
M-071422-21
Please place on the back of original (white copy of COC)
this will assist us in processing your samples.
Thank You

Initial Assessment 3B
Label Verification

| Relinquished By (Signature) | Date | Time | Received By (Signature) | Date | Time | Shipment Method | Tracking Number(s) |
|---|---|---|---|---|---|---|---|
| | 7/27/22 | 1500 | FedEx | 07/28/22 | 9:49 | FedEx | 5272 0643 5878 |
| Relinquished By (Signature) | Date | Time | Received By (Signature) | Date | Time | Number of Packages | Custody Seal Number(s) |
| FedEx | 7/28/22 | 0949 | James Lucas | 7/28/22 | 9:49 | | |

*Use stop time/date for composite and/or air samples; use early start times/date for all other samples.

Matrix: AQ = Aqueous, S = Soil, SE = Sediment, A = Air, W = Wipe, B = Bulk, O = Other (detail in comments)

TM-071422-21 • VOA 8C Vial 3.7

5.1 5

**JD49019: Chain of Custody**
**Page 1 of 2**

# SGS Sample Receipt Summary

**Job Number:** JD49019 **Client:** WSP **Project:** FORMER ITHACA POWER TRANSMISSIO

**Date / Time Received:** 7/28/2022 9:49:00 AM **Delivery Method:** Fed Ex **Airbill #'s:** 5272 0643 5878

**Cooler Temps (Raw Measured) °C:** Cooler 1: (3.7);

**Cooler Temps (Corrected) °C:** Cooler 1: (4.3);

| Cooler Security | Y | or | N | | Y | or | N |
|---|---|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | | ☐ | 3. COC Present: | ☑ | | ☐ |
| 2. Custody Seals Intact: | ☑ | | ☐ | 4. Smpl Dates/Time OK | ☑ | | ☐ |

| Cooler Temperature | Y | or | N |
|---|---|---|---|
| 1. Temp criteria achieved: | ☑ | | ☐ |
| 2. Cooler temp verification: | IR Gun | | |
| 3. Cooler media: | Ice (Bag) | | |
| 4. No. Coolers: | 1 | | |

| Quality Control Preservation | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Trip Blank present / cooler: | ☐ | | ☑ | ☐ |
| 2. Trip Blank listed on COC: | ☐ | | ☑ | ☐ |
| 3. Samples preserved properly: | ☑ | | ☐ | |
| 4. VOCs headspace free: | ☑ | | ☐ | ☐ |

| Sample Integrity - Documentation | Y | or | N |
|---|---|---|---|
| 1. Sample labels present on bottles: | ☑ | | ☐ |
| 2. Container labeling complete: | ☑ | | ☐ |
| 3. Sample container label / COC agree: | ☑ | | ☐ |

| Sample Integrity - Condition | Y | or | N |
|---|---|---|---|
| 1. Sample recvd within HT: | ☑ | | ☐ |
| 2. All containers accounted for: | ☑ | | ☐ |
| 3. Condition of sample: | Intact | | |

| Sample Integrity - Instructions | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | | ☐ | |
| 4. Compositing instructions clear: | ☐ | | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | | ☐ | ☑ |

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

## MS Volatiles

6

### QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JD49019
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3D7580-MB | 3D179786.D | 1 | 07/29/22 | BK | n/a | n/a | V3D7580 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD49019-1, JD49019-2, JD49019-3, JD49019-4

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 6.9 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |

# Method Blank Summary

**Job Number:** JD49019
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3D7580-MB | 3D179786.D | 1 | 07/29/22 | BK | n/a | n/a | V3D7580 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD49019-1, JD49019-2, JD49019-3, JD49019-4

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.90 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.53 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.79 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 90% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96% | 80-120% |
| 2037-26-5 | Toluene-D8 | 97% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Method Blank Summary



**Job Number:** JD49019
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2B8773-MB | 2B193361.D | 1 | 08/01/22 | ED | n/a | n/a | V2B8773 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD49019-4

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107% | 80-120% |
| 2037-26-5 | Toluene-D8 | 101% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 102% | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | system artifact | 3.66 | 16 | ug/l | J |
| | Total TIC, Volatile | | 0 | ug/l | |

# Blank Spike Summary



**Job Number:** JD49019
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3D7580-BS | 3D179784.D | 1 | 07/29/22 | BK | n/a | n/a | V3D7580 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD49019-1, JD49019-2, JD49019-3, JD49019-4

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 200 | 257 | 129 | 27-175 |
| 71-43-2 | Benzene | 50 | 50.0 | 100 | 80-115 |
| 75-27-4 | Bromodichloromethane | 50 | 48.0 | 96 | 82-119 |
| 75-25-2 | Bromoform | 50 | 47.1 | 94 | 77-135 |
| 74-83-9 | Bromomethane | 50 | 53.9 | 108 | 40-162 |
| 78-93-3 | 2-Butanone (MEK) | 200 | 286 | 143 | 61-150 |
| 75-15-0 | Carbon disulfide | 50 | 44.8 | 90 | 64-130 |
| 56-23-5 | Carbon tetrachloride | 50 | 40.3 | 81 | 75-127 |
| 108-90-7 | Chlorobenzene | 50 | 45.6 | 91 | 80-115 |
| 75-00-3 | Chloroethane | 50 | 45.1 | 90 | 56-144 |
| 67-66-3 | Chloroform | 50 | 44.2 | 88 | 75-116 |
| 74-87-3 | Chloromethane | 50 | 36.0 | 72 | 41-153 |
| 110-82-7 | Cyclohexane | 50 | 48.1 | 96 | 66-129 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 74.9 | 150* [a] | 69-134 |
| 124-48-1 | Dibromochloromethane | 50 | 45.1 | 90 | 81-123 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 51.3 | 103 | 67-138 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 48.3 | 97 | 81-117 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 47.7 | 95 | 81-115 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 45.9 | 92 | 80-114 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 46.5 | 93 | 43-152 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 44.4 | 89 | 75-125 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 43.1 | 86 | 73-117 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 47.5 | 95 | 70-124 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 46.6 | 93 | 80-120 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 46.9 | 94 | 77-121 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 47.8 | 96 | 79-121 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 48.2 | 96 | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 43.7 | 87 | 83-122 |
| 100-41-4 | Ethylbenzene | 50 | 45.5 | 91 | 78-116 |
| 76-13-1 | Freon 113 | 50 | 46.0 | 92 | 68-134 |
| 591-78-6 | 2-Hexanone | 200 | 265 | 133 | 66-136 |
| 98-82-8 | Isopropylbenzene | 50 | 44.3 | 89 | 78-121 |
| 79-20-9 | Methyl Acetate | 50 | 60.9 | 122 | 60-143 |
| 108-87-2 | Methylcyclohexane | 50 | 46.9 | 94 | 71-123 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 53.4 | 107 | 76-123 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 200 | 261 | 131 | 73-134 |

* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** JD49019
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3D7580-BS | 3D179784.D | 1 | 07/29/22 | BK | n/a | n/a | V3D7580 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD49019-1, JD49019-2, JD49019-3, JD49019-4

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | 50 | 47.8 | 96 | 73-123 |
| 100-42-5 | Styrene | 50 | 45.6 | 91 | 81-125 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 62.4 | 125 | 73-126 |
| 127-18-4 | Tetrachloroethene | 50 | 50.6 | 101 | 73-119 |
| 108-88-3 | Toluene | 50 | 46.8 | 94 | 79-116 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 47.2 | 94 | 68-135 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 43.7 | 87 | 76-124 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 49.2 | 98 | 83-117 |
| 79-01-6 | Trichloroethene | 50 | 50.1 | 100 | 80-118 |
| 75-69-4 | Trichlorofluoromethane | 50 | 44.9 | 90 | 67-134 |
| 75-01-4 | Vinyl chloride | 50 | 40.7 | 81 | 52-146 |
| 1330-20-7 | Xylene (total) | 150 | 137 | 91 | 80-119 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 93% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90% | 80-120% |
| 2037-26-5 | Toluene-D8 | 92% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 103% | 82-114% |

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** JD49019
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2B8773-BS | 2B193359.D | 1 | 08/01/22 | ED | n/a | n/a | V2B8773 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD49019-4

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 43.3 | 87 | 80-120 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | 80-120% |
| 2037-26-5 | Toluene-D8 | 98% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 82-114% |

* = Outside of Control Limits.

# Matrix Spike Summary



**Job Number:** JD49019
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD49019-1MS | 3D179790.D | 1 | 07/30/22 | BK | n/a | n/a | V3D7580 |
| JD49019-1 | 3D179787.D | 1 | 07/30/22 | BK | n/a | n/a | V3D7580 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD49019-1, JD49019-2, JD49019-3, JD49019-4

| CAS No. | Compound | JD49019-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | Limits |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 200 | 233 | 117 | 22-134 |
| 71-43-2 | Benzene | ND | | 50 | 49.2 | 98 | 49-137 |
| 75-27-4 | Bromodichloromethane | ND | | 50 | 47.5 | 95 | 76-121 |
| 75-25-2 | Bromoform | ND | | 50 | 44.6 | 89 | 70-133 |
| 74-83-9 | Bromomethane | ND | | 50 | 44.7 | 89 | 27-164 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 200 | 250 | 125 | 52-137 |
| 75-15-0 | Carbon disulfide | ND | | 50 | 43.5 | 87 | 54-136 |
| 56-23-5 | Carbon tetrachloride | ND | | 50 | 39.7 | 79 | 70-132 |
| 108-90-7 | Chlorobenzene | ND | | 50 | 44.3 | 89 | 68-123 |
| 75-00-3 | Chloroethane | ND | | 50 | 43.8 | 88 | 48-152 |
| 67-66-3 | Chloroform | ND | | 50 | 41.5 | 83 | 68-120 |
| 74-87-3 | Chloromethane | ND | | 50 | 32.2 | 64 | 35-156 |
| 110-82-7 | Cyclohexane | ND | | 50 | 46.6 | 93 | 53-146 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 50 | 68.3 | 137* [a] | 63-134 |
| 124-48-1 | Dibromochloromethane | ND | | 50 | 43.3 | 87 | 75-122 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 50 | 48.5 | 97 | 63-134 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 50 | 46.5 | 93 | 74-119 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 50 | 45.8 | 92 | 75-117 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 50 | 44.3 | 89 | 72-117 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 50 | 44.3 | 89 | 34-163 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 50 | 41.4 | 83 | 68-129 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 50 | 41.1 | 82 | 66-120 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 50 | 46.6 | 93 | 59-133 |
| 156-59-2 | cis-1,2-Dichloroethene | 2.4 | | 50 | 46.0 | 87 | 52-140 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 50 | 45.0 | 90 | 70-125 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 50 | 45.4 | 91 | 73-124 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 50 | 47.9 | 96 | 75-125 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 50 | 41.0 | 82 | 75-122 |
| 100-41-4 | Ethylbenzene | ND | | 50 | 44.8 | 90 | 37-144 |
| 76-13-1 | Freon 113 | ND | | 50 | 43.5 | 87 | 61-142 |
| 591-78-6 | 2-Hexanone | ND | | 200 | 243 | 122 | 56-132 |
| 98-82-8 | Isopropylbenzene | ND | | 50 | 44.2 | 88 | 71-126 |
| 79-20-9 | Methyl Acetate | ND | | 50 | 46.3 | 93 | 51-139 |
| 108-87-2 | Methylcyclohexane | ND | | 50 | 44.8 | 90 | 59-137 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 50 | 48.7 | 97 | 66-124 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 200 | 247 | 124 | 65-135 |

* = Outside of Control Limits.

# Matrix Spike Summary

**Job Number:** JD49019
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD49019-1MS | 3D179790.D | 1 | 07/30/22 | BK | n/a | n/a | V3D7580 |
| JD49019-1 | 3D179787.D | 1 | 07/30/22 | BK | n/a | n/a | V3D7580 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD49019-1, JD49019-2, JD49019-3, JD49019-4

| CAS No. | Compound | JD49019-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | Limits |
|---|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | | 50 | 44.3 | 89 | 66-125 |
| 100-42-5 | Styrene | ND | | 50 | 44.3 | 89 | 71-133 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 50 | 59.0 | 118 | 68-127 |
| 127-18-4 | Tetrachloroethene | ND | | 50 | 49.0 | 98 | 58-132 |
| 108-88-3 | Toluene | ND | | 50 | 46.0 | 92 | 46-139 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 50 | 45.4 | 91 | 61-137 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 50 | 42.6 | 85 | 67-132 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 50 | 47.5 | 95 | 75-120 |
| 79-01-6 | Trichloroethene | ND | | 50 | 51.1 | 102 | 56-136 |
| 75-69-4 | Trichlorofluoromethane | ND | | 50 | 43.6 | 87 | 61-145 |
| 75-01-4 | Vinyl chloride | ND | | 50 | 40.6 | 81 | 41-156 |
| 1330-20-7 | Xylene (total) | ND | | 150 | 134 | 89 | 38-147 |

| CAS No. | Surrogate Recoveries | MS | JD49019-1 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 90% | 91% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91% | 98% | 80-120% |
| 2037-26-5 | Toluene-D8 | 92% | 96% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 103% | 102% | 82-114% |

(a) Outside in house control limits.

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD49019
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD48921-3MS | 2B193368.D | 25 | 08/01/22 | ED | n/a | n/a | V2B8773 |
| JD48921-3MSD | 2B193369.D | 25 | 08/01/22 | ED | n/a | n/a | V2B8773 |
| JD48921-3 [a] | 2B193364.D | 25 | 08/01/22 | ED | n/a | n/a | V2B8773 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD49019-4

| CAS No. | Compound | JD48921-3 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 1250 | 1090 | 87 | 1250 | 1080 | 86 | 1 | 52-140/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JD48921-3 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 99% | 98% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | 101% | 107% | 80-120% |
| 2037-26-5 | Toluene-D8 | 97% | 98% | 100% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 98% | 100% | 82-114% |

(a) Dilution required due to high concentration of target compound.

* = Outside of Control Limits.

# Duplicate Summary



**Job Number:** JD49019
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD49019-2DUP | 3D179792.D | 1 | 07/30/22 | BK | n/a | n/a | V3D7580 |
| JD49019-2 | 3D179788.D | 1 | 07/30/22 | BK | n/a | n/a | V3D7580 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD49019-1, JD49019-2, JD49019-3, JD49019-4

| CAS No. | Compound | JD49019-2 ug/l | Q | DUP ug/l | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | ND | | nc | 23 |
| 71-43-2 | Benzene | ND | | ND | | nc | 14 |
| 75-27-4 | Bromodichloromethane | ND | | ND | | nc | 10 |
| 75-25-2 | Bromoform | ND | | ND | | nc | 10 |
| 74-83-9 | Bromomethane | ND | | ND | | nc | 10 |
| 78-93-3 | 2-Butanone (MEK) | ND | | ND | | nc | 10 |
| 75-15-0 | Carbon disulfide | ND | | ND | | nc | 10 |
| 56-23-5 | Carbon tetrachloride | ND | | ND | | nc | 10 |
| 108-90-7 | Chlorobenzene | ND | | ND | | nc | 10 |
| 75-00-3 | Chloroethane | ND | | ND | | nc | 10 |
| 67-66-3 | Chloroform | 0.64 | J | 0.58 | J | 10 | 10 |
| 74-87-3 | Chloromethane | ND | | ND | | nc | 10 |
| 110-82-7 | Cyclohexane | ND | | ND | | nc | 14 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | ND | | nc | 20 |
| 124-48-1 | Dibromochloromethane | ND | | ND | | nc | 10 |
| 106-93-4 | 1,2-Dibromoethane | ND | | ND | | nc | 20 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | ND | | nc | 10 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | ND | | nc | 10 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | ND | | nc | 10 |
| 75-71-8 | Dichlorodifluoromethane | ND | | ND | | nc | 20 |
| 75-34-3 | 1,1-Dichloroethane | ND | | ND | | nc | 10 |
| 107-06-2 | 1,2-Dichloroethane | ND | | ND | | nc | 10 |
| 75-35-4 | 1,1-Dichloroethene | ND | | ND | | nc | 15 |
| 156-59-2 | cis-1,2-Dichloroethene | 6.9 | | 6.9 | | 0 | 10 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | ND | | nc | 10 |
| 78-87-5 | 1,2-Dichloropropane | ND | | ND | | nc | 20 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | ND | | nc | 20 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | ND | | nc | 20 |
| 100-41-4 | Ethylbenzene | ND | | ND | | nc | 20 |
| 76-13-1 | Freon 113 | ND | | ND | | nc | 10 |
| 591-78-6 | 2-Hexanone | ND | | ND | | nc | 10 |
| 98-82-8 | Isopropylbenzene | ND | | ND | | nc | 15 |
| 79-20-9 | Methyl Acetate | ND | | ND | | nc | 20 |
| 108-87-2 | Methylcyclohexane | ND | | ND | | nc | 20 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | ND | | nc | 12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | ND | | nc | 10 |

* = Outside of Control Limits.

# Duplicate Summary



**Job Number:** JD49019
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD49019-2DUP | 3D179792.D | 1 | 07/30/22 | BK | n/a | n/a | V3D7580 |
| JD49019-2 | 3D179788.D | 1 | 07/30/22 | BK | n/a | n/a | V3D7580 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD49019-1, JD49019-2, JD49019-3, JD49019-4

| CAS No. | Compound | JD49019-2 ug/l | Q | DUP ug/l | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | | ND | | nc | 10 |
| 100-42-5 | Styrene | ND | | ND | | nc | 20 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | ND | | nc | 10 |
| 127-18-4 | Tetrachloroethene | ND | | ND | | nc | 10 |
| 108-88-3 | Toluene | ND | | ND | | nc | 16 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | ND | | nc | 10 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | ND | | nc | 10 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | ND | | nc | 10 |
| 79-01-6 | Trichloroethene | ND | | ND | | nc | 14 |
| 75-69-4 | Trichlorofluoromethane | ND | | ND | | nc | 10 |
| 75-01-4 | Vinyl chloride | ND | | ND | | nc | 10 |
| 1330-20-7 | Xylene (total) | ND | | ND | | nc | 22 |

| CAS No. | Surrogate Recoveries | DUP | JD49019-2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 90% | 92% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | 97% | 80-120% |
| 2037-26-5 | Toluene-D8 | 96% | 97% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 101% | 82-114% |

* = Outside of Control Limits.

# Instrument Performance Check (BFB)



**Job Number:** JD49019
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

**Sample:** V2B8767-BFB
**Lab File ID:** 2B193286.D
**Instrument ID:** GCMS2B
**Injection Date:** 07/21/22
**Injection Time:** 19:23

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 14.99 - 40.0% of mass 95 | 11995 | 19.5 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 32440 | 52.7 | | Pass |
| 95 | Base peak, 100% relative abundance | 61509 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 3833 | 6.23 | | Pass |
| 173 | Less than 2.0% of mass 174 | 715 | 1.16 | (1.13) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 63427 | 103.1 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 4562 | 7.42 | (7.19) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 61267 | 99.6 | (96.6) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3982 | 6.47 | (6.50) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2B8767-IC8767 | 2B193287.D | 07/21/22 | 20:01 | 00:38 | Initial cal 0.2 |
| V2B8767-IC8767 | 2B193288.D | 07/21/22 | 20:31 | 01:08 | Initial cal 0.5 |
| V2B8767-IC8767 | 2B193289.D | 07/21/22 | 21:00 | 01:37 | Initial cal 1 |
| V2B8767-IC8767 | 2B193290.D | 07/21/22 | 21:30 | 02:07 | Initial cal 2 |
| V2B8767-IC8767 | 2B193291.D | 07/21/22 | 21:59 | 02:36 | Initial cal 4 |
| V2B8767-IC8767 | 2B193292.D | 07/21/22 | 22:28 | 03:05 | Initial cal 8 |
| V2B8767-IC8767 | 2B193293.D | 07/21/22 | 22:58 | 03:35 | Initial cal 20 |
| V2B8767-ICC8767 | 2B193294.D | 07/21/22 | 23:27 | 04:04 | Initial cal 50 |
| V2B8767-IC8767 | 2B193295.D | 07/21/22 | 23:56 | 04:33 | Initial cal 100 |
| V2B8767-IC8767 | 2B193296.D | 07/22/22 | 00:25 | 05:02 | Initial cal 200 |
| V2B8767-ICV8767 | 2B193299.D | 07/22/22 | 01:53 | 06:30 | Initial cal verification 50 |
| V2B8767-ICV8767 | 2B193300.D | 07/22/22 | 02:22 | 06:59 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD49019
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

**Sample:** V2B8773-BFB
**Lab File ID:** 2B193357.D
**Instrument ID:** GCMS2B
**Injection Date:** 08/01/22
**Injection Time:** 10:18

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 14.99 - 40.0% of mass 95 | 16502 | 18.5 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 48437 | 54.2 | | Pass |
| 95 | Base peak, 100% relative abundance | 89288 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 5826 | 6.52 | | Pass |
| 173 | Less than 2.0% of mass 174 | 934 | 1.05 | (1.05) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 88565 | 99.2 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 6453 | 7.23 | (7.29) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 85573 | 95.8 | (96.6) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 5682 | 6.36 | (6.64) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2B8773-CC8767 | 2B193357.D | 08/01/22 | 10:18 | 00:00 | Continuing cal 20 |
| V2B8773-BS | 2B193359.D | 08/01/22 | 11:25 | 01:07 | Blank Spike |
| V2B8773-MB | 2B193361.D | 08/01/22 | 12:23 | 02:05 | Method Blank |
| ZZZZZZ | 2B193362.D | 08/01/22 | 12:53 | 02:35 | (unrelated sample) |
| ZZZZZZ | 2B193363.D | 08/01/22 | 13:22 | 03:04 | (unrelated sample) |
| JD48921-3 | 2B193364.D | 08/01/22 | 13:51 | 03:33 | (used for QC only; not part of job JD49019) |
| ZZZZZZ | 2B193365.D | 08/01/22 | 14:20 | 04:02 | (unrelated sample) |
| ZZZZZZ | 2B193366.D | 08/01/22 | 14:49 | 04:31 | (unrelated sample) |
| JD49019-4 | 2B193367.D | 08/01/22 | 15:18 | 05:00 | WINF |
| JD48921-3MS | 2B193368.D | 08/01/22 | 15:47 | 05:29 | Matrix Spike |
| JD48921-3MSD | 2B193369.D | 08/01/22 | 16:16 | 05:58 | Matrix Spike Duplicate |
| ZZZZZZ | 2B193370.D | 08/01/22 | 16:45 | 06:27 | (unrelated sample) |
| ZZZZZZ | 2B193371.D | 08/01/22 | 17:14 | 06:56 | (unrelated sample) |
| ZZZZZZ | 2B193372.D | 08/01/22 | 17:43 | 07:25 | (unrelated sample) |
| ZZZZZZ | 2B193373.D | 08/01/22 | 18:12 | 07:54 | (unrelated sample) |
| ZZZZZZ | 2B193374.D | 08/01/22 | 18:42 | 08:24 | (unrelated sample) |
| ZZZZZZ | 2B193375.D | 08/01/22 | 19:11 | 08:53 | (unrelated sample) |
| ZZZZZZ | 2B193376.D | 08/01/22 | 19:40 | 09:22 | (unrelated sample) |
| ZZZZZZ | 2B193377.D | 08/01/22 | 20:09 | 09:51 | (unrelated sample) |
| ZZZZZZ | 2B193378.D | 08/01/22 | 20:38 | 10:20 | (unrelated sample) |
| ZZZZZZ | 2B193379.D | 08/01/22 | 21:07 | 10:49 | (unrelated sample) |
| ZZZZZZ | 2B193380.D | 08/01/22 | 21:36 | 11:18 | (unrelated sample) |
| ZZZZZZ | 2B193381.D | 08/01/22 | 22:05 | 11:47 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD49019
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

**Sample:** V3D7479-BFB
**Lab File ID:** 3D176945.D
**Instrument ID:** GCMS3D
**Injection Date:** 05/17/22
**Injection Time:** 19:16

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 14.99 - 40.0% of mass 95 | 36906 | 22.6 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 91253 | 55.9 | | Pass |
| 95 | Base peak, 100% relative abundance | 163114 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 11216 | 6.88 | | Pass |
| 173 | Less than 2.0% of mass 174 | 1152 | 0.71 | (1.02) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 113277 | 69.4 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 9185 | 5.63 | (8.11) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 112701 | 69.1 | (99.5) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 7734 | 4.74 | (6.86) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V3D7479-IC7479 | 3D176946.D | 05/17/22 | 19:46 | 00:30 | Initial cal 0.2 |
| V3D7479-IC7479 | 3D176947.D | 05/17/22 | 20:09 | 00:53 | Initial cal 0.5 |
| V3D7479-IC7479 | 3D176948.D | 05/17/22 | 20:33 | 01:17 | Initial cal 1 |
| V3D7479-IC7479 | 3D176949.D | 05/17/22 | 20:56 | 01:40 | Initial cal 2 |
| V3D7479-IC7479 | 3D176950.D | 05/17/22 | 21:20 | 02:04 | Initial cal 4 |
| V3D7479-IC7479 | 3D176951.D | 05/17/22 | 21:43 | 02:27 | Initial cal 8 |
| V3D7479-IC7479 | 3D176952.D | 05/17/22 | 22:07 | 02:51 | Initial cal 20 |
| V3D7479-ICC7479 | 3D176953.D | 05/17/22 | 22:30 | 03:14 | Initial cal 50 |
| V3D7479-IC7479 | 3D176954.D | 05/17/22 | 22:54 | 03:38 | Initial cal 100 |
| V3D7479-IC7479 | 3D176955.D | 05/17/22 | 23:17 | 04:01 | Initial cal 200 |
| V3D7479-ICV7479 | 3D176958.D | 05/18/22 | 00:27 | 05:11 | Initial cal verification 50 |
| V3D7479-ICV7479 | 3D176959.D | 05/18/22 | 00:50 | 05:34 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD49019
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

**Sample:** V3D7580-BFB
**Lab File ID:** 3D179782.D
**Instrument ID:** GCMS3D
**Injection Date:** 07/29/22
**Injection Time:** 22:23

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 14.99 - 40.0% of mass 95 | 28960 | 17.5 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 88029 | 53.3 | | Pass |
| 95 | Base peak, 100% relative abundance | 165173 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 10702 | 6.48 | | Pass |
| 173 | Less than 2.0% of mass 174 | 953 | 0.58 | (0.79) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 120757 | 73.1 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 9258 | 5.61 | (7.67) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 116877 | 70.8 | (96.8) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 7826 | 4.74 | (6.70) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V3D7580-CC7479 | 3D179782.D | 07/29/22 | 22:23 | 00:00 | Continuing cal 50 |
| V3D7580-BS | 3D179784.D | 07/29/22 | 23:10 | 00:47 | Blank Spike |
| V3D7580-MB | 3D179786.D | 07/29/22 | 23:57 | 01:34 | Method Blank |
| JD49019-1 | 3D179787.D | 07/30/22 | 00:20 | 01:57 | WPOST GAC |
| JD49019-2 | 3D179788.D | 07/30/22 | 00:44 | 02:21 | WMID GAC |
| ZZZZZZ | 3D179789.D | 07/30/22 | 01:07 | 02:44 | (unrelated sample) |
| JD49019-1MS | 3D179790.D | 07/30/22 | 01:31 | 03:08 | Matrix Spike |
| JD49019-2DUP | 3D179792.D | 07/30/22 | 02:18 | 03:55 | Duplicate |
| ZZZZZZ | 3D179793.D | 07/30/22 | 02:41 | 04:18 | (unrelated sample) |
| JD49019-3 | 3D179794.D | 07/30/22 | 03:05 | 04:42 | WAS |
| JD49019-4 | 3D179795.D | 07/30/22 | 03:28 | 05:05 | WINF |
| ZZZZZZ | 3D179796.D | 07/30/22 | 03:52 | 05:29 | (unrelated sample) |
| ZZZZZZ | 3D179797.D | 07/30/22 | 04:15 | 05:52 | (unrelated sample) |
| ZZZZZZ | 3D179799.D | 07/30/22 | 05:02 | 06:39 | (unrelated sample) |
| ZZZZZZ | 3D179800.D | 07/30/22 | 05:26 | 07:03 | (unrelated sample) |
| ZZZZZZ | 3D179802.D | 07/30/22 | 06:13 | 07:50 | (unrelated sample) |
| ZZZZZZ | 3D179804.D | 07/30/22 | 07:00 | 08:37 | (unrelated sample) |
| ZZZZZZ | 3D179808.D | 07/30/22 | 08:34 | 10:11 | (unrelated sample) |
| ZZZZZZ | 3D179809.D | 07/30/22 | 08:58 | 10:35 | (unrelated sample) |

# Surrogate Recovery Summary



**Job Number:** JD49019
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

**Method:** SW846 8260D **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| JD49019-1 | 3D179787.D | 91 | 98 | 96 | 102 |
| JD49019-2 | 3D179788.D | 92 | 97 | 97 | 101 |
| JD49019-3 | 3D179794.D | 92 | 98 | 97 | 102 |
| JD49019-4 | 2B193367.D | 98 | 108 | 102 | 105 |
| JD49019-4 | 3D179795.D | 93 | 97 | 96 | 100 |
| JD48921-3MS | 2B193368.D | 99 | 100 | 97 | 99 |
| JD48921-3MSD | 2B193369.D | 99 | 101 | 98 | 98 |
| JD49019-1MS | 3D179790.D | 90 | 91 | 92 | 103 |
| JD49019-2DUP | 3D179792.D | 90 | 98 | 96 | 101 |
| V2B8773-BS | 2B193359.D | 98 | 100 | 98 | 100 |
| V2B8773-MB | 2B193361.D | 99 | 107 | 101 | 102 |
| V3D7580-BS | 3D179784.D | 93 | 90 | 92 | 103 |
| V3D7580-MB | 3D179786.D | 90 | 96 | 97 | 100 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 80-120% |
| **S2** = 1,2-Dichloroethane-D4 | 80-120% |
| **S3** = Toluene-D8 | 80-120% |
| **S4** = 4-Bromofluorobenzene | 82-114% |

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*
*Automated Report*



Technical Report for

WSP Environment & Energy

Former Ithaca Power Transmission, Ithaca, NY

31401545.001 Task 01.63

SGS Job Number: JD49030

Sampling Date: 07/27/22

Report to:

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Tampa, FL 33607
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ATTN: Jeffrey Baker

Total number of pages in report: **48**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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SGS North America Inc.

# Sample Summary

WSP Environment & Energy

**Job No:** JD49030

Former Ithaca Power Transmission, Ithaca, NY
Project No: 31401545.001 Task 01.63

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| This report contains results reported as ND = Not detected. The following applies: | | | | | | | |
| Organics ND = Not detected above the MDL | | | | | | | |
| JD49030-1 | 07/27/22 | 11:20 | NW | 07/28/22 | AIR | Soil Vapor Comp. | VINF |
| JD49030-2 | 07/27/22 | 11:40 | NW | 07/28/22 | AIR | Soil Vapor Comp. | VPOST GAC |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | WSP Environment & Energy | **Job No:** | JD49030 |
| **Site:** | Former Ithaca Power Transmission, Ithaca, NY | **Report Date** | 8/5/2022 11:12:20 AM |

On 07/28/2022, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. A SGS North America Inc. Job Number of JD49030 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

## MS Volatiles By Method TO-15

**Matrix:** AIR **Batch ID:** V3W3043

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD49030-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 1,2,4-Trichlorobenzene are outside control limits.
- RPD(s) for Duplicate for Isopropyl Alcohol, Methylene chloride, Tetrachloroethylene, Trichlorofluoromethane are outside control limits for sample JD49030-1DUP. RPD acceptable due to low DUP and sample concentrations.
- V3W3043-BS for 1,2,4-Trichlorobenzene: High percent recovery and no associated positive reported in the QC batch.
- JD49030-1 for 1,2,4-Trichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD49030-1 for Hexachlorobutadiene: This compound in blank spike is outside in house QC limits bias high.
- JD49030-2 for 1,2,4-Trichlorobenzene: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD49030-2 for Hexachlorobutadiene: This compound in blank spike is outside in house QC limits bias high.

**Matrix:** AIR **Batch ID:** V3W3044

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD49249-3DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

# Summary of Hits

**Job Number:** JD49030
**Account:** WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY
**Collected:** 07/27/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **JD49030-1** | **VINF** | | | | | |
| Acetone (2-Propanone) | | 3.5 | 0.80 | 0.58 | ppbv | TO-15 |
| Chloromethane | | 0.47 J | 0.80 | 0.36 | ppbv | TO-15 |
| 1,1-Dichloroethylene | | 0.56 | 0.16 | 0.24 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.44 J | 0.80 | 0.13 | ppbv | TO-15 |
| trans-1,2-Dichloroethylene | | 1.6 | 0.80 | 0.28 | ppbv | TO-15 |
| cis-1,2-Dichloroethylene | | 236 | 0.64 | 1.2 | ppbv | TO-15 |
| Ethanol | | 10.4 | 2.0 | 1.6 | ppbv | TO-15 |
| Methylene chloride | | 1.1 | 0.80 | 0.22 | ppbv | TO-15 |
| Methyl ethyl ketone | | 0.57 J | 0.80 | 0.44 | ppbv | TO-15 |
| Tetrachloroethylene | | 0.18 | 0.16 | 0.056 | ppbv | TO-15 |
| Trichloroethylene | | 63.4 | 0.16 | 0.076 | ppbv | TO-15 |
| Trichlorofluoromethane | | 0.90 | 0.40 | 0.14 | ppbv | TO-15 |
| Vinyl chloride | | 29.5 | 0.16 | 0.28 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 8.3 | 1.9 | 1.4 | ug/m3 | TO-15 |
| Chloromethane | | 0.97 J | 1.7 | 0.74 | ug/m3 | TO-15 |
| 1,1-Dichloroethylene | | 2.2 | 0.63 | 0.95 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 2.2 J | 4.0 | 0.64 | ug/m3 | TO-15 |
| trans-1,2-Dichloroethylene | | 6.3 | 3.2 | 1.1 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethylene | | 936 | 2.5 | 4.8 | ug/m3 | TO-15 |
| Ethanol | | 19.6 | 3.8 | 3.0 | ug/m3 | TO-15 |
| Methylene chloride | | 3.8 | 2.8 | 0.76 | ug/m3 | TO-15 |
| Methyl ethyl ketone | | 1.7 J | 2.4 | 1.3 | ug/m3 | TO-15 |
| Tetrachloroethylene | | 1.2 | 1.1 | 0.38 | ug/m3 | TO-15 |
| Trichloroethylene | | 341 | 0.86 | 0.41 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 5.1 | 2.2 | 0.79 | ug/m3 | TO-15 |
| Vinyl chloride | | 75.4 | 0.41 | 0.72 | ug/m3 | TO-15 |
| **JD49030-2** | **VPOST GAC** | | | | | |
| Acetone (2-Propanone) | | 1.7 | 0.80 | 0.58 | ppbv | TO-15 |
| Benzene | | 0.41 J | 0.80 | 0.25 | ppbv | TO-15 |
| Chloromethane | | 0.56 J | 0.80 | 0.36 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.44 J | 0.80 | 0.13 | ppbv | TO-15 |
| trans-1,2-Dichloroethylene | | 0.92 | 0.80 | 0.28 | ppbv | TO-15 |
| cis-1,2-Dichloroethylene | | 180 | 0.16 | 0.31 | ppbv | TO-15 |
| Ethanol | | 3.5 | 2.0 | 1.6 | ppbv | TO-15 |
| Hexane | | 0.58 J | 0.80 | 0.45 | ppbv | TO-15 |
| Methylene chloride | | 0.75 J | 0.80 | 0.22 | ppbv | TO-15 |
| Tetrachloroethylene | | 0.58 | 0.16 | 0.056 | ppbv | TO-15 |
| Trichloroethylene | | 159 | 0.16 | 0.076 | ppbv | TO-15 |
| Vinyl chloride | | 12.1 | 0.16 | 0.28 | ppbv | TO-15 |
| m,p-Xylene | | 0.65 J | 0.80 | 0.56 | ppbv | TO-15 |
| Xylenes (total) | | 0.65 J | 0.80 | 0.31 | ppbv | TO-15 |

# Summary of Hits

**Job Number:** JD49030
**Account:** WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY
**Collected:** 07/27/22



| Lab Sample ID / Client Sample ID / Analyte | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|
| Acetone (2-Propanone) | 4.0 | 1.9 | 1.4 | ug/m3 | TO-15 |
| Benzene | 1.3 J | 2.6 | 0.80 | ug/m3 | TO-15 |
| Chloromethane | 1.2 J | 1.7 | 0.74 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | 2.2 J | 4.0 | 0.64 | ug/m3 | TO-15 |
| trans-1,2-Dichloroethylene | 3.6 | 3.2 | 1.1 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethylene | 714 | 0.63 | 1.2 | ug/m3 | TO-15 |
| Ethanol | 6.6 | 3.8 | 3.0 | ug/m3 | TO-15 |
| Hexane | 2.0 J | 2.8 | 1.6 | ug/m3 | TO-15 |
| Methylene chloride | 2.6 J | 2.8 | 0.76 | ug/m3 | TO-15 |
| Tetrachloroethylene | 3.9 | 1.1 | 0.38 | ug/m3 | TO-15 |
| Trichloroethylene | 855 | 0.86 | 0.41 | ug/m3 | TO-15 |
| Vinyl chloride | 30.9 | 0.41 | 0.72 | ug/m3 | TO-15 |
| m,p-Xylene | 2.8 J | 3.5 | 2.4 | ug/m3 | TO-15 |
| Xylenes (total) | 2.8 J | 3.5 | 1.3 | ug/m3 | TO-15 |

## Sample Results

Report of Analysis

# Report of Analysis





**Client Sample ID:** VINF
**Lab Sample ID:** JD49030-1
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A799
**Method:** TO-15
**Project:** Former Ithaca Power Transmission, Ithaca, NY

**Date Sampled:** 07/27/22
**Date Received:** 07/28/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 3W77320.D | 1.6 | 08/02/22 14:05 | TCH | n/a | n/a | V3W3043 |
| Run #2 | 3W77352.D | 1.6 | 08/03/22 13:48 | TCH | n/a | n/a | V3W3044 |

| | Initial Volume |
|---|---|
| Run #1 | 160 ml |
| Run #2 | 40.0 ml |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 3.5 | 0.80 | 0.58 | ppbv | | 8.3 | 1.9 | 1.4 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.80 | 0.34 | ppbv | | ND | 1.8 | 0.75 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | ND | 0.80 | 0.25 | ppbv | | ND | 2.6 | 0.80 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.40 | 0.12 | ppbv | | ND | 2.7 | 0.80 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.16 | 0.28 | ppbv | | ND | 1.7 | 2.9 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.1 | 1.1 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.80 | 0.50 | ppbv | | ND | 4.1 | 2.6 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 0.80 | 0.18 | ppbv | | ND | 2.5 | 0.56 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.80 | 0.30 | ppbv | | ND | 3.7 | 1.4 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.80 | 0.27 | ppbv | | ND | 2.1 | 0.71 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 0.80 | 0.15 | ppbv | | ND | 3.9 | 0.73 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | 0.47 | 0.80 | 0.36 | ppbv | J | 0.97 | 1.7 | 0.74 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.80 | 0.33 | ppbv | | ND | 2.5 | 1.0 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.80 | 0.29 | ppbv | | ND | 4.1 | 1.5 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.16 | 0.16 | ppbv | | ND | 1.0 | 1.0 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 0.80 | 0.44 | ppbv | | ND | 2.8 | 1.5 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.80 | 0.23 | ppbv | | ND | 3.2 | 0.93 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | 0.56 | 0.16 | 0.24 | ppbv | | 2.2 | 0.63 | 0.95 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.40 | 0.39 | ppbv | | ND | 3.1 | 3.0 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | 1.1 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.80 | 0.25 | ppbv | | ND | 3.7 | 1.2 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.80 | 0.47 | ppbv | | ND | 2.9 | 1.7 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.44 | 0.80 | 0.13 | ppbv | J | 2.2 | 4.0 | 0.64 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.40 | 0.21 | ppbv | | ND | 3.4 | 1.8 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | 1.6 | 0.80 | 0.28 | ppbv | | 6.3 | 3.2 | 1.1 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | 236 [a] | 0.64 | 1.2 | ppbv | | 936 [a] | 2.5 | 4.8 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.80 | 0.25 | ppbv | | ND | 3.6 | 1.1 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.40 | 0.16 | ppbv | | ND | 2.4 | 0.96 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.16 | 0.62 | ppbv | | ND | 0.96 | 3.7 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.40 | 0.76 | ppbv | | ND | 2.4 | 4.6 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.80 | 0.40 | ppbv | | ND | 3.6 | 1.8 | ug/m3 |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** VINF
**Lab Sample ID:** JD49030-1
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A799
**Method:** TO-15
**Project:** Former Ithaca Power Transmission, Ithaca, NY

**Date Sampled:** 07/27/22
**Date Received:** 07/28/22
**Percent Solids:** n/a

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64-17-5 | 46.07 | Ethanol | 10.4 | 2.0 | 1.6 | ppbv | | 19.6 | 3.8 | 3.0 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | ND | 0.80 | 0.42 | ppbv | | ND | 2.9 | 1.5 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 0.80 | 0.38 | ppbv | | ND | 3.9 | 1.9 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.40 | 0.12 | ppbv | | ND | 3.1 | 0.92 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.40 | 0.20 | ppbv | | ND | 2.8 | 1.4 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | ND | 0.80 | 0.37 | ppbv | | ND | 3.3 | 1.5 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene [b] | ND | 0.36 | 0.25 | ppbv | | ND | 3.8 | 2.7 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | 1.6 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.80 | 0.58 | ppbv | | ND | 3.3 | 2.4 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | ND | 0.80 | 0.56 | ppbv | | ND | 2.0 | 1.4 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | 1.1 | 0.80 | 0.22 | ppbv | | 3.8 | 2.8 | 0.76 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 0.57 | 0.80 | 0.44 | ppbv | J | 1.7 | 2.4 | 1.3 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.80 | 0.29 | ppbv | | ND | 3.3 | 1.2 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.80 | 0.32 | ppbv | | ND | 2.9 | 1.2 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.80 | 0.28 | ppbv | | ND | 3.3 | 1.1 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 2.0 | 0.57 | ppbv | | ND | 3.4 | 0.98 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 0.80 | 0.47 | ppbv | | ND | 3.4 | 2.0 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.40 | 0.19 | ppbv | | ND | 2.7 | 1.3 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene [c] | ND | 0.40 | 0.48 | ppbv | | ND | 3.0 | 3.6 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 0.80 | 0.35 | ppbv | | ND | 3.9 | 1.7 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 0.80 | 0.32 | ppbv | | ND | 3.9 | 1.6 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 0.80 | 0.38 | ppbv | | ND | 3.7 | 1.8 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 0.80 | 0.37 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 0.18 | 0.16 | 0.056 | ppbv | | 1.2 | 1.1 | 0.38 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.80 | 0.36 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | ND | 0.80 | 0.23 | ppbv | | ND | 3.0 | 0.87 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 63.4 | 0.16 | 0.076 | ppbv | | 341 | 0.86 | 0.41 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | 0.90 | 0.40 | 0.14 | ppbv | | 5.1 | 2.2 | 0.79 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | 29.5 | 0.16 | 0.28 | ppbv | | 75.4 | 0.41 | 0.72 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | 1.6 | ug/m3 |
| | 106.2 | m,p-Xylene | ND | 0.80 | 0.56 | ppbv | | ND | 3.5 | 2.4 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 97% | 90% | 65-128% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | VINF | | |
| **Lab Sample ID:** | JD49030-1 | **Date Sampled:** | 07/27/22 |
| **Matrix:** | AIR - Soil Vapor Comp. Summa ID: A799 | **Date Received:** | 07/28/22 |
| **Method:** | TO-15 | **Percent Solids:** | n/a |
| **Project:** | Former Ithaca Power Transmission, Ithaca, NY | | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|

(a) Result is from Run# 2
(b) This compound in blank spike is outside in house QC limits bias high.
(c) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** VPOST GAC
**Lab Sample ID:** JD49030-2
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A525
**Method:** TO-15
**Project:** Former Ithaca Power Transmission, Ithaca, NY

**Date Sampled:** 07/27/22
**Date Received:** 07/28/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 3W77322.D | 1 | 08/02/22 15:25 | TCH | n/a | n/a | V3W3043 |
| Run #2 | | | | | | | |

| | Initial Volume |
|---|---|
| Run #1 | 100 ml |
| Run #2 | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 1.7 | 0.80 | 0.58 | ppbv | | 4.0 | 1.9 | 1.4 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.80 | 0.34 | ppbv | | ND | 1.8 | 0.75 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | 0.41 | 0.80 | 0.25 | ppbv | J | 1.3 | 2.6 | 0.80 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.40 | 0.12 | ppbv | | ND | 2.7 | 0.80 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.16 | 0.28 | ppbv | | ND | 1.7 | 2.9 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.1 | 1.1 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.80 | 0.50 | ppbv | | ND | 4.1 | 2.6 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 0.80 | 0.18 | ppbv | | ND | 2.5 | 0.56 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.80 | 0.30 | ppbv | | ND | 3.7 | 1.4 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.80 | 0.27 | ppbv | | ND | 2.1 | 0.71 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 0.80 | 0.15 | ppbv | | ND | 3.9 | 0.73 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | 0.56 | 0.80 | 0.36 | ppbv | J | 1.2 | 1.7 | 0.74 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.80 | 0.33 | ppbv | | ND | 2.5 | 1.0 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.80 | 0.29 | ppbv | | ND | 4.1 | 1.5 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.16 | 0.16 | ppbv | | ND | 1.0 | 1.0 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 0.80 | 0.44 | ppbv | | ND | 2.8 | 1.5 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.80 | 0.23 | ppbv | | ND | 3.2 | 0.93 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.16 | 0.24 | ppbv | | ND | 0.63 | 0.95 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.40 | 0.39 | ppbv | | ND | 3.1 | 3.0 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | 1.1 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.80 | 0.25 | ppbv | | ND | 3.7 | 1.2 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.80 | 0.47 | ppbv | | ND | 2.9 | 1.7 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.44 | 0.80 | 0.13 | ppbv | J | 2.2 | 4.0 | 0.64 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.40 | 0.21 | ppbv | | ND | 3.4 | 1.8 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | 0.92 | 0.80 | 0.28 | ppbv | | 3.6 | 3.2 | 1.1 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | 180 | 0.16 | 0.31 | ppbv | | 714 | 0.63 | 1.2 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.80 | 0.25 | ppbv | | ND | 3.6 | 1.1 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.40 | 0.16 | ppbv | | ND | 2.4 | 0.96 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.16 | 0.62 | ppbv | | ND | 0.96 | 3.7 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.40 | 0.76 | ppbv | | ND | 2.4 | 4.6 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.80 | 0.40 | ppbv | | ND | 3.6 | 1.8 | ug/m3 |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** VPOST GAC
**Lab Sample ID:** JD49030-2
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A525
**Method:** TO-15
**Project:** Former Ithaca Power Transmission, Ithaca, NY

**Date Sampled:** 07/27/22
**Date Received:** 07/28/22
**Percent Solids:** n/a

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64-17-5 | 46.07 | Ethanol | 3.5 | 2.0 | 1.6 | ppbv | | 6.6 | 3.8 | 3.0 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | ND | 0.80 | 0.42 | ppbv | | ND | 2.9 | 1.5 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 0.80 | 0.38 | ppbv | | ND | 3.9 | 1.9 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.40 | 0.12 | ppbv | | ND | 3.1 | 0.92 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.40 | 0.20 | ppbv | | ND | 2.8 | 1.4 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | ND | 0.80 | 0.37 | ppbv | | ND | 3.3 | 1.5 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene [a] | ND | 0.36 | 0.25 | ppbv | | ND | 3.8 | 2.7 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | 0.58 | 0.80 | 0.45 | ppbv | J | 2.0 | 2.8 | 1.6 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.80 | 0.58 | ppbv | | ND | 3.3 | 2.4 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | ND | 0.80 | 0.56 | ppbv | | ND | 2.0 | 1.4 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | 0.75 | 0.80 | 0.22 | ppbv | J | 2.6 | 2.8 | 0.76 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | ND | 0.80 | 0.44 | ppbv | | ND | 2.4 | 1.3 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.80 | 0.29 | ppbv | | ND | 3.3 | 1.2 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.80 | 0.32 | ppbv | | ND | 2.9 | 1.2 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.80 | 0.28 | ppbv | | ND | 3.3 | 1.1 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 2.0 | 0.57 | ppbv | | ND | 3.4 | 0.98 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 0.80 | 0.47 | ppbv | | ND | 3.4 | 2.0 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.40 | 0.19 | ppbv | | ND | 2.7 | 1.3 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene [b] | ND | 0.40 | 0.48 | ppbv | | ND | 3.0 | 3.6 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 0.80 | 0.35 | ppbv | | ND | 3.9 | 1.7 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 0.80 | 0.32 | ppbv | | ND | 3.9 | 1.6 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 0.80 | 0.38 | ppbv | | ND | 3.7 | 1.8 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 0.80 | 0.37 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 0.58 | 0.16 | 0.056 | ppbv | | 3.9 | 1.1 | 0.38 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.80 | 0.36 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | ND | 0.80 | 0.23 | ppbv | | ND | 3.0 | 0.87 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 159 | 0.16 | 0.076 | ppbv | | 855 | 0.86 | 0.41 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | ND | 0.40 | 0.14 | ppbv | | ND | 2.2 | 0.79 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | 12.1 | 0.16 | 0.28 | ppbv | | 30.9 | 0.41 | 0.72 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | 1.6 | ug/m3 |
| | 106.2 | m,p-Xylene | 0.65 | 0.80 | 0.56 | ppbv | J | 2.8 | 3.5 | 2.4 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | 0.65 | 0.80 | 0.31 | ppbv | J | 2.8 | 3.5 | 1.3 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 65-128% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | VPOST GAC | | |
| **Lab Sample ID:** | JD49030-2 | **Date Sampled:** | 07/27/22 |
| **Matrix:** | AIR - Soil Vapor Comp. Summa ID: A525 | **Date Received:** | 07/28/22 |
| **Method:** | TO-15 | **Percent Solids:** | n/a |
| **Project:** | Former Ithaca Power Transmission, Ithaca, NY | | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|

(a) This compound in blank spike is outside in house QC limits bias high.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

## Misc. Forms

# Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

WSP

~~WW~~ Air

**Chain of Custody Form** 5272 0643 6212 JD49030

Page 1 of 1

| | |
|---|---|
| WSP Office Address: 7000 East Genesee, Building D, 2nd Floor, Fayetteville, NY 13066 | No. |
| Project Name: Former EPT Ithaca | WSP Contact Name: Jeffrey Baker |
| Project Location: Ithaca, NY | WSP Contact E-mail: Jeffrey.Baker@wsp.com |
| Project Number & Task: 31401545.001 Task 01.63 | WSP Contact Phone: 724-882-9723 |
| Sampler(s) Name(s): Nate Winston | Sampler(s) Signature(s): [signature] |
| Laboratory Name & Location: TAMMY Mecklsky | |
| Laboratory Project Manager: SGS, DAYTON NJ | |
| Requested Turn-Around-Time: ☒ Standard ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ ___ HR | |

Requested Analyses & Preservatives: VOCs ~~MM 4.02~~ 10-15

| | Sample Identification | Matrix | Collection Start* Date | Collection Start* Time | Collection Stop* Date | Collection Stop* Time | Number of Containers | VOCs ~~MM 4.02~~ 10-15 | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|
| 1 | VINF | ✓ | — | — | 7/27/22 | 1120 | 1 | X | |
| 2 | VPOST GAC | ✓ | — | — | 7/27/22 | 1140 | 1 | X | |

Initial Assessment UR

Label Verification

WSP
Former Ithaca Power Transmission, Ithaca, NY
TM-071422-22
Please place on the back of original (white copy of COC)
This will assist us in processing your samples.
Thank You

| Relinquished By (Signature) | Date | Time | Received By (Signature) | Date | Time | Shipment Method | Tracking Number(s) |
|---|---|---|---|---|---|---|---|
| [signature] | 7/27/22 | 1500 | [signature] | | | Fedex | |
| **Relinquished By (Signature)** | **Date** | **Time** | **Received By (Signature)** | **Date** | **Time** | **Number of Packages** | **Custody Seal Number(s)** |
| FedEx | 7/28/22 | 09:49 | [signature] | | | | |

*Use stop time/date for composite and/or air samples; use only start time/date for all other samples.

Matrix: AQ = Aqueous, S = Soil, SE = Sediment, A = Air, W = Wipe, B = Bulk, O = Other (detail in comments)

5.1

5

**JD49030: Chain of Custody**
**Page 1 of 2**

## SGS Sample Receipt Summary

**Job Number:** JD49030 **Client:** WSP **Project:** FORMER ITHACA POWER TRANSMISSI

**Date / Time Received:** 7/28/2022 9:49:00 AM **Delivery Method:** **Airbill #'s:**

**Cooler Temps (Raw Measured) °C:**

**Cooler Temps (Corrected) °C:**

| Cooler Security | Y | or | N | | Y | or | N |
|---|---|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | | ☐ | 3. COC Present: | ☑ | | ☐ |
| 2. Custody Seals Intact: | ☑ | | ☐ | 4. Smpl Dates/Time OK | ☑ | | ☐ |

| Cooler Temperature | Y | or | N |
|---|---|---|---|
| 1. Temp criteria achieved: | ☐ | | ☐ |
| 2. Cooler temp verification: | N/A | | |
| 3. Cooler media: | N/A | | |
| 4. No. Coolers: | N/A | | |

| Quality Control Preservation | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Trip Blank present / cooler: | ☐ | | ☐ | ☑ |
| 2. Trip Blank listed on COC: | ☐ | | ☐ | ☑ |
| 3. Samples preserved properly: | ☑ | | ☐ | |
| 4. VOCs headspace free: | ☐ | | ☐ | ☑ |

| Sample Integrity - Documentation | Y | or | N |
|---|---|---|---|
| 1. Sample labels present on bottles: | ☑ | | ☐ |
| 2. Container labeling complete: | ☑ | | ☐ |
| 3. Sample container label / COC agree: | ☑ | | ☐ |

| Sample Integrity - Condition | Y | or | N |
|---|---|---|---|
| 1. Sample recvd within HT: | ☑ | | ☐ |
| 2. All containers accounted for: | ☑ | | ☐ |
| 3. Condition of sample: | Intact | | |

| Sample Integrity - Instructions | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | | ☐ | |
| 4. Compositing instructions clear: | ☐ | | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | | ☐ | ☑ |

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

**JD49030: Chain of Custody**
**Page 2 of 2**

# Summa Canister and Flow Controller Log



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY
**Received:** 07/28/22

**SUMMA CANISTERS**

| Shipping | | | | | | | Receiving | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Summa ID | L | Vac " Hg | Date Out | By | SCC Batch | SCC FileID | Sample Number | Date In | By | Vac " Hg | Pres psig | Final psig | Dil Fact |
| A799 | 1 | 29.4 | 07/15/22 | ML | CP11792 | 2W60345.D | JD49030-1 | 07/29/22 | ML | 10 | | 1.6 | 1.67 |
| A525 | 1 | 29.4 | 07/15/22 | ML | CP11792 | 2W60345.D | JD49030-2 | 07/29/22 | ML | 3.5 | | | 1 |

**SGS Bottle Order(s):**
TM-071422-22

| Prep Date | Room Temp(F) | Bar Pres "Hg |
|---|---|---|
| 07/15/22 | 70 | 29.92 |

## MS Volatiles

6

### QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

# Method Blank Summary



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3W3043-MB | 3W77319.D | 1 | 08/02/22 | TCH | n/a | n/a | V3W3043 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD49030-1, JD49030-2

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | ND | 0.20 | 0.15 | ppbv | | ND | 0.48 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | ND | 0.20 | 0.084 | ppbv | | ND | 0.44 | ug/m3 |
| 71-43-2 | Benzene | ND | 0.20 | 0.062 | ppbv | | ND | 0.64 | ug/m3 |
| 75-27-4 | Bromodichloromethane | ND | 0.20 | 0.030 | ppbv | | ND | 1.3 | ug/m3 |
| 75-25-2 | Bromoform | ND | 0.20 | 0.071 | ppbv | | ND | 2.1 | ug/m3 |
| 74-83-9 | Bromomethane | ND | 0.20 | 0.069 | ppbv | | ND | 0.78 | ug/m3 |
| 593-60-2 | Bromoethene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 100-44-7 | Benzyl Chloride | ND | 0.20 | 0.13 | ppbv | | ND | 1.0 | ug/m3 |
| 75-15-0 | Carbon disulfide | ND | 0.20 | 0.045 | ppbv | | ND | 0.62 | ug/m3 |
| 108-90-7 | Chlorobenzene | ND | 0.20 | 0.074 | ppbv | | ND | 0.92 | ug/m3 |
| 75-00-3 | Chloroethane | ND | 0.20 | 0.068 | ppbv | | ND | 0.53 | ug/m3 |
| 67-66-3 | Chloroform | ND | 0.20 | 0.037 | ppbv | | ND | 0.98 | ug/m3 |
| 74-87-3 | Chloromethane | ND | 0.20 | 0.090 | ppbv | | ND | 0.41 | ug/m3 |
| 107-05-1 | 3-Chloropropene | ND | 0.20 | 0.083 | ppbv | | ND | 0.63 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.20 | 0.072 | ppbv | | ND | 1.0 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.20 | 0.040 | ppbv | | ND | 1.3 | ug/m3 |
| 110-82-7 | Cyclohexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.69 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.20 | 0.057 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.20 | 0.059 | ppbv | | ND | 0.79 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | 0.20 | 0.097 | ppbv | | ND | 1.5 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.20 | 0.070 | ppbv | | ND | 0.81 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.20 | 0.062 | ppbv | | ND | 0.92 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | ND | 0.20 | 0.12 | ppbv | | ND | 0.72 | ug/m3 |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.20 | 0.032 | ppbv | | ND | 0.99 | ug/m3 |
| 124-48-1 | Dibromochloromethane | ND | 0.20 | 0.052 | ppbv | | ND | 1.7 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.069 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.79 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.20 | 0.062 | ppbv | | ND | 0.91 | ug/m3 |
| 541-73-1 | m-Dichlorobenzene | ND | 0.20 | 0.040 | ppbv | | ND | 1.2 | ug/m3 |
| 95-50-1 | o-Dichlorobenzene | ND | 0.20 | 0.15 | ppbv | | ND | 1.2 | ug/m3 |
| 106-46-7 | p-Dichlorobenzene | ND | 0.20 | 0.19 | ppbv | | ND | 1.2 | ug/m3 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.20 | 0.10 | ppbv | | ND | 0.91 | ug/m3 |
| 64-17-5 | Ethanol | ND | 0.50 | 0.39 | ppbv | | ND | 0.94 | ug/m3 |
| 100-41-4 | Ethylbenzene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 141-78-6 | Ethyl Acetate | ND | 0.20 | 0.10 | ppbv | | ND | 0.72 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | ND | 0.20 | 0.095 | ppbv | | ND | 0.98 | ug/m3 |

# Method Blank Summary



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3W3043-MB | 3W77319.D | 1 | 08/02/22 | TCH | n/a | n/a | V3W3043 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD49030-1, JD49030-2

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | 0.20 | 0.031 | ppbv | | ND | 1.5 | ug/m3 |
| 76-14-2 | Freon 114 | ND | 0.20 | 0.050 | ppbv | | ND | 1.4 | ug/m3 |
| 142-82-5 | Heptane | ND | 0.20 | 0.092 | ppbv | | ND | 0.82 | ug/m3 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.20 | 0.062 | ppbv | | ND | 2.1 | ug/m3 |
| 110-54-3 | Hexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| 591-78-6 | 2-Hexanone | ND | 0.20 | 0.15 | ppbv | | ND | 0.82 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | ND | 0.20 | 0.14 | ppbv | | ND | 0.49 | ug/m3 |
| 75-09-2 | Methylene chloride | ND | 0.20 | 0.056 | ppbv | | ND | 0.69 | ug/m3 |
| 78-93-3 | Methyl ethyl ketone | ND | 0.20 | 0.11 | ppbv | | ND | 0.59 | ug/m3 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | 0.20 | 0.073 | ppbv | | ND | 0.82 | ug/m3 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.20 | 0.080 | ppbv | | ND | 0.72 | ug/m3 |
| 80-62-6 | Methylmethacrylate | ND | 0.20 | 0.070 | ppbv | | ND | 0.82 | ug/m3 |
| 115-07-1 | Propylene | ND | 0.50 | 0.14 | ppbv | | ND | 0.86 | ug/m3 |
| 100-42-5 | Styrene | ND | 0.20 | 0.12 | ppbv | | ND | 0.85 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.20 | 0.037 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.20 | 0.038 | ppbv | | ND | 1.1 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.20 | 0.12 | ppbv | | ND | 1.5 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.20 | 0.087 | ppbv | | ND | 0.98 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.20 | 0.080 | ppbv | | ND | 0.98 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | 0.20 | 0.095 | ppbv | | ND | 0.93 | ug/m3 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 0.20 | 0.093 | ppbv | | ND | 0.61 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.040 | 0.014 | ppbv | | ND | 0.27 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | ND | 0.20 | 0.090 | ppbv | | ND | 0.59 | ug/m3 |
| 108-88-3 | Toluene | ND | 0.20 | 0.057 | ppbv | | ND | 0.75 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.20 | 0.036 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.20 | 0.069 | ppbv | | ND | 0.51 | ug/m3 |
| 108-05-4 | Vinyl Acetate | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| | m,p-Xylene | ND | 0.20 | 0.14 | ppbv | | ND | 0.87 | ug/m3 |
| 95-47-6 | o-Xylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |
| 1330-20-7 | Xylenes (total) | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |

# Method Blank Summary

**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3W3043-MB | 3W77319.D | 1 | 08/02/22 | TCH | n/a | n/a | V3W3043 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD49030-1, JD49030-2

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 106% | 65-128% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| 124-38-9 | Carbon dioxide | 4.18 | 62 | ppbv | JN |
| | Total TIC, Volatile | | 0 | ppbv | |

# Method Blank Summary



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3W3044-MB | 3W77351.D | 1 | 08/03/22 | TCH | n/a | n/a | V3W3044 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD49030-1

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.79 | ug/m3 |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 99% | 65-128% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| 124-38-9 | Carbon dioxide | 4.18 | 56 | ppbv | JN |
| | Total TIC, Volatile | | 0 | ppbv | |

# Method Blank Summary



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2679-MB | 2W60327.D | 1 | 07/06/22 | TCH | n/a | n/a | V2W2679 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2679-SCC

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | ND | 0.20 | 0.15 | ppbv | | ND | 0.48 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | ND | 0.20 | 0.084 | ppbv | | ND | 0.44 | ug/m3 |
| 71-43-2 | Benzene | ND | 0.20 | 0.062 | ppbv | | ND | 0.64 | ug/m3 |
| 75-27-4 | Bromodichloromethane | ND | 0.20 | 0.030 | ppbv | | ND | 1.3 | ug/m3 |
| 75-25-2 | Bromoform | ND | 0.20 | 0.071 | ppbv | | ND | 2.1 | ug/m3 |
| 74-83-9 | Bromomethane | ND | 0.20 | 0.069 | ppbv | | ND | 0.78 | ug/m3 |
| 593-60-2 | Bromoethene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 100-44-7 | Benzyl Chloride | ND | 0.20 | 0.13 | ppbv | | ND | 1.0 | ug/m3 |
| 75-15-0 | Carbon disulfide | ND | 0.20 | 0.045 | ppbv | | ND | 0.62 | ug/m3 |
| 108-90-7 | Chlorobenzene | ND | 0.20 | 0.074 | ppbv | | ND | 0.92 | ug/m3 |
| 75-00-3 | Chloroethane | ND | 0.20 | 0.068 | ppbv | | ND | 0.53 | ug/m3 |
| 67-66-3 | Chloroform | ND | 0.20 | 0.037 | ppbv | | ND | 0.98 | ug/m3 |
| 74-87-3 | Chloromethane | ND | 0.20 | 0.090 | ppbv | | ND | 0.41 | ug/m3 |
| 107-05-1 | 3-Chloropropene | ND | 0.20 | 0.083 | ppbv | | ND | 0.63 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.20 | 0.072 | ppbv | | ND | 1.0 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.20 | 0.040 | ppbv | | ND | 1.3 | ug/m3 |
| 110-82-7 | Cyclohexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.69 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.20 | 0.057 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.20 | 0.059 | ppbv | | ND | 0.79 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | 0.20 | 0.097 | ppbv | | ND | 1.5 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.20 | 0.070 | ppbv | | ND | 0.81 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.20 | 0.062 | ppbv | | ND | 0.92 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | ND | 0.20 | 0.12 | ppbv | | ND | 0.72 | ug/m3 |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.20 | 0.032 | ppbv | | ND | 0.99 | ug/m3 |
| 124-48-1 | Dibromochloromethane | ND | 0.20 | 0.052 | ppbv | | ND | 1.7 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.069 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.79 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.20 | 0.062 | ppbv | | ND | 0.91 | ug/m3 |
| 541-73-1 | m-Dichlorobenzene | ND | 0.20 | 0.040 | ppbv | | ND | 1.2 | ug/m3 |
| 95-50-1 | o-Dichlorobenzene | ND | 0.20 | 0.15 | ppbv | | ND | 1.2 | ug/m3 |
| 106-46-7 | p-Dichlorobenzene | ND | 0.20 | 0.19 | ppbv | | ND | 1.2 | ug/m3 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.20 | 0.10 | ppbv | | ND | 0.91 | ug/m3 |
| 64-17-5 | Ethanol | ND | 0.50 | 0.39 | ppbv | | ND | 0.94 | ug/m3 |
| 100-41-4 | Ethylbenzene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 141-78-6 | Ethyl Acetate | ND | 0.20 | 0.10 | ppbv | | ND | 0.72 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | ND | 0.20 | 0.095 | ppbv | | ND | 0.98 | ug/m3 |

# Method Blank Summary

**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2679-MB | 2W60327.D | 1 | 07/06/22 | TCH | n/a | n/a | V2W2679 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2679-SCC

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | 0.20 | 0.031 | ppbv | | ND | 1.5 | ug/m3 |
| 76-14-2 | Freon 114 | ND | 0.20 | 0.050 | ppbv | | ND | 1.4 | ug/m3 |
| 142-82-5 | Heptane | ND | 0.20 | 0.092 | ppbv | | ND | 0.82 | ug/m3 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.20 | 0.062 | ppbv | | ND | 2.1 | ug/m3 |
| 110-54-3 | Hexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| 591-78-6 | 2-Hexanone | ND | 0.20 | 0.15 | ppbv | | ND | 0.82 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | ND | 0.20 | 0.14 | ppbv | | ND | 0.49 | ug/m3 |
| 75-09-2 | Methylene chloride | ND | 0.20 | 0.056 | ppbv | | ND | 0.69 | ug/m3 |
| 78-93-3 | Methyl ethyl ketone | ND | 0.20 | 0.11 | ppbv | | ND | 0.59 | ug/m3 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | 0.20 | 0.073 | ppbv | | ND | 0.82 | ug/m3 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.20 | 0.080 | ppbv | | ND | 0.72 | ug/m3 |
| 80-62-6 | Methylmethacrylate | ND | 0.20 | 0.070 | ppbv | | ND | 0.82 | ug/m3 |
| 115-07-1 | Propylene | ND | 0.50 | 0.14 | ppbv | | ND | 0.86 | ug/m3 |
| 100-42-5 | Styrene | ND | 0.20 | 0.12 | ppbv | | ND | 0.85 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.20 | 0.037 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.20 | 0.038 | ppbv | | ND | 1.1 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.20 | 0.12 | ppbv | | ND | 1.5 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.20 | 0.087 | ppbv | | ND | 0.98 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.20 | 0.080 | ppbv | | ND | 0.98 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | 0.20 | 0.095 | ppbv | | ND | 0.93 | ug/m3 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 0.20 | 0.093 | ppbv | | ND | 0.61 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.040 | 0.014 | ppbv | | ND | 0.27 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | ND | 0.20 | 0.090 | ppbv | | ND | 0.59 | ug/m3 |
| 108-88-3 | Toluene | ND | 0.20 | 0.057 | ppbv | | ND | 0.75 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.20 | 0.036 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.20 | 0.069 | ppbv | | ND | 0.51 | ug/m3 |
| 108-05-4 | Vinyl Acetate | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| | m,p-Xylene | ND | 0.20 | 0.14 | ppbv | | ND | 0.87 | ug/m3 |
| 95-47-6 | o-Xylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |
| 1330-20-7 | Xylenes (total) | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |

# Method Blank Summary

**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2679-MB | 2W60327.D | 1 | 07/06/22 | TCH | n/a | n/a | V2W2679 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2679-SCC

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 89% | 65-128% |

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3W3043-BS | 3W77316.D | 1 | 08/02/22 | TCH | n/a | n/a | V3W3043 |
| V3W3043-BSD | 3W77317.D | 1 | 08/02/22 | TCH | n/a | n/a | V3W3043 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD49030-1, JD49030-2

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | 10 | 7.4 | 74 | 7.4 | 74 | 0 | 70-130/30 |
| 106-99-0 | 1,3-Butadiene | 10 | 7.9 | 79 | 7.9 | 79 | 0 | 70-130/30 |
| 71-43-2 | Benzene | 10 | 8.7 | 87 | 8.6 | 86 | 1 | 70-130/30 |
| 75-27-4 | Bromodichloromethane | 10 | 9.5 | 95 | 9.5 | 95 | 0 | 70-130/30 |
| 75-25-2 | Bromoform | 10 | 11.2 | 112 | 11.7 | 117 | 4 | 70-130/30 |
| 74-83-9 | Bromomethane | 10 | 9.3 | 93 | 9.3 | 93 | 0 | 70-130/30 |
| 593-60-2 | Bromoethene | 10 | 10 | 100 | 10.0 | 100 | 0 | 70-130/30 |
| 100-44-7 | Benzyl Chloride | 10 | 11.2 | 112 | 11.4 | 114 | 2 | 70-130/30 |
| 75-15-0 | Carbon disulfide | 10 | 8.4 | 84 | 8.4 | 84 | 0 | 70-130/30 |
| 108-90-7 | Chlorobenzene | 10 | 9.8 | 98 | 10.0 | 100 | 2 | 70-130/30 |
| 75-00-3 | Chloroethane | 10 | 8.9 | 89 | 8.9 | 89 | 0 | 70-130/30 |
| 67-66-3 | Chloroform | 10 | 8.6 | 86 | 8.6 | 86 | 0 | 70-130/30 |
| 74-87-3 | Chloromethane | 10 | 7.9 | 79 | 7.8 | 78 | 1 | 70-130/30 |
| 107-05-1 | 3-Chloropropene | 10 | 8.9 | 89 | 8.9 | 89 | 0 | 70-130/30 |
| 95-49-8 | 2-Chlorotoluene | 10 | 10.2 | 102 | 10.7 | 107 | 5 | 70-130/30 |
| 56-23-5 | Carbon tetrachloride | 10 | 9.5 | 95 | 9.6 | 96 | 1 | 70-130/30 |
| 110-82-7 | Cyclohexane | 10 | 8.4 | 84 | 8.3 | 83 | 1 | 70-130/30 |
| 75-34-3 | 1,1-Dichloroethane | 10 | 7.9 | 79 | 8.0 | 80 | 1 | 70-130/30 |
| 75-35-4 | 1,1-Dichloroethylene | 10 | 8.7 | 87 | 8.7 | 87 | 0 | 70-130/30 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | 10 | 10.1 | 101 | 10.2 | 102 | 1 | 70-130/30 |
| 107-06-2 | 1,2-Dichloroethane | 10 | 8.9 | 89 | 8.9 | 89 | 0 | 70-130/30 |
| 78-87-5 | 1,2-Dichloropropane | 10 | 8.5 | 85 | 8.5 | 85 | 0 | 70-130/30 |
| 123-91-1 | 1,4-Dioxane | 10 | 9.4 | 94 | 9.4 | 94 | 0 | 70-130/30 |
| 75-71-8 | Dichlorodifluoromethane | 10 | 9.7 | 97 | 9.8 | 98 | 1 | 70-130/30 |
| 124-48-1 | Dibromochloromethane | 10 | 10.1 | 101 | 10.4 | 104 | 3 | 70-130/30 |
| 156-60-5 | trans-1,2-Dichloroethylene | 10 | 8.6 | 86 | 8.6 | 86 | 0 | 70-130/30 |
| 156-59-2 | cis-1,2-Dichloroethylene | 10 | 8.7 | 87 | 8.7 | 87 | 0 | 70-130/30 |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | 9.5 | 95 | 9.4 | 94 | 1 | 70-130/30 |
| 541-73-1 | m-Dichlorobenzene | 10 | 11.2 | 112 | 11.7 | 117 | 4 | 70-130/30 |
| 95-50-1 | o-Dichlorobenzene | 10 | 11.2 | 112 | 11.5 | 115 | 3 | 70-130/30 |
| 106-46-7 | p-Dichlorobenzene | 10 | 11.3 | 113 | 11.7 | 117 | 3 | 70-130/30 |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | 9.7 | 97 | 9.6 | 96 | 1 | 70-130/30 |
| 64-17-5 | Ethanol | 10 | 8.5 | 85 | 8.5 | 85 | 0 | 70-130/30 |
| 100-41-4 | Ethylbenzene | 10 | 9.5 | 95 | 9.7 | 97 | 2 | 70-130/30 |
| 141-78-6 | Ethyl Acetate | 10 | 9.0 | 90 | 8.9 | 89 | 1 | 70-130/30 |
| 622-96-8 | 4-Ethyltoluene | 10 | 10.1 | 101 | 10.4 | 104 | 3 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3W3043-BS | 3W77316.D | 1 | 08/02/22 | TCH | n/a | n/a | V3W3043 |
| V3W3043-BSD | 3W77317.D | 1 | 08/02/22 | TCH | n/a | n/a | V3W3043 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD49030-1, JD49030-2

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | 10 | 9.5 | 95 | 9.6 | 96 | 1 | 70-130/30 |
| 76-14-2 | Freon 114 | 10 | 9.9 | 99 | 10.0 | 100 | 1 | 70-130/30 |
| 142-82-5 | Heptane | 10 | 7.9 | 79 | 7.8 | 78 | 1 | 70-130/30 |
| 87-68-3 | Hexachlorobutadiene | 10 | 12.4 | 124 | 13.2 | 132* [a] | 6 | 70-130/30 |
| 110-54-3 | Hexane | 10 | 7.9 | 79 | 7.9 | 79 | 0 | 70-130/30 |
| 591-78-6 | 2-Hexanone | 10 | 8.0 | 80 | 8.2 | 82 | 2 | 70-130/30 |
| 67-63-0 | Isopropyl Alcohol | 10 | 7.3 | 73 | 7.3 | 73 | 0 | 70-130/30 |
| 75-09-2 | Methylene chloride | 10 | 7.9 | 79 | 8.0 | 80 | 1 | 70-130/30 |
| 78-93-3 | Methyl ethyl ketone | 10 | 8.7 | 87 | 8.8 | 88 | 1 | 70-130/30 |
| 108-10-1 | Methyl Isobutyl Ketone | 10 | 8.4 | 84 | 8.3 | 83 | 1 | 70-130/30 |
| 1634-04-4 | Methyl Tert Butyl Ether | 10 | 8.0 | 80 | 8.0 | 80 | 0 | 70-130/30 |
| 80-62-6 | Methylmethacrylate | 10 | 9.1 | 91 | 9.1 | 91 | 0 | 70-130/30 |
| 115-07-1 | Propylene | 10 | 7.4 | 74 | 7.4 | 74 | 0 | 70-130/30 |
| 100-42-5 | Styrene | 10 | 9.5 | 95 | 9.7 | 97 | 2 | 70-130/30 |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | 9.0 | 90 | 9.0 | 90 | 0 | 70-130/30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | 9.6 | 96 | 9.7 | 97 | 1 | 70-130/30 |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | 9.2 | 92 | 9.2 | 92 | 0 | 70-130/30 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | 14.3 | 143* [a] | 15.2 | 152* [a] | 6 | 70-130/30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 10 | 10.6 | 106 | 10.9 | 109 | 3 | 70-130/30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10 | 10.1 | 101 | 10.2 | 102 | 1 | 70-130/30 |
| 540-84-1 | 2,2,4-Trimethylpentane | 10 | 8.4 | 84 | 8.4 | 84 | 0 | 70-130/30 |
| 75-65-0 | Tertiary Butyl Alcohol | 10 | 7.7 | 77 | 7.7 | 77 | 0 | 70-130/30 |
| 127-18-4 | Tetrachloroethylene | 10 | 9.5 | 95 | 9.8 | 98 | 3 | 70-130/30 |
| 109-99-9 | Tetrahydrofuran | 10 | 8.9 | 89 | 8.9 | 89 | 0 | 70-130/30 |
| 108-88-3 | Toluene | 10 | 9.3 | 93 | 9.2 | 92 | 1 | 70-130/30 |
| 79-01-6 | Trichloroethylene | 10 | 9.2 | 92 | 9.2 | 92 | 0 | 70-130/30 |
| 75-69-4 | Trichlorofluoromethane | 10 | 9.3 | 93 | 9.4 | 94 | 1 | 70-130/30 |
| 75-01-4 | Vinyl chloride | 10 | 9.1 | 91 | 9.1 | 91 | 0 | 70-130/30 |
| 108-05-4 | Vinyl Acetate | 10 | 9.6 | 96 | 9.5 | 95 | 1 | 70-130/30 |
| | m,p-Xylene | 20 | 19.6 | 98 | 20.1 | 101 | 3 | 70-130/30 |
| 95-47-6 | o-Xylene | 10 | 9.9 | 99 | 10.2 | 102 | 3 | 70-130/30 |
| 1330-20-7 | Xylenes (total) | 30 | 29.5 | 98 | 30.3 | 101 | 3 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3W3043-BS | 3W77316.D | 1 | 08/02/22 | TCH | n/a | n/a | V3W3043 |
| V3W3043-BSD | 3W77317.D | 1 | 08/02/22 | TCH | n/a | n/a | V3W3043 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD49030-1, JD49030-2

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 103% | 106% | 65-128% |

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V3W3044-BS | 3W77348.D | 1 | 08/03/22 | TCH | n/a | n/a | V3W3044 |
| V3W3044-BSD | 3W77349.D | 1 | 08/03/22 | TCH | n/a | n/a | V3W3044 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD49030-1

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethylene | 10 | 8.5 | 85 | 8.6 | 86 | 1 | 70-130/30 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 100% | 100% | 65-128% |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2679-BS | 2W60324.D | 1 | 07/06/22 | TCH | n/a | n/a | V2W2679 |
| V2W2679-BSD | 2W60325.D | 1 | 07/06/22 | TCH | n/a | n/a | V2W2679 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2679-SCC

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | 10 | 9.3 | 93 | 9.3 | 93 | 0 | 70-130/30 |
| 106-99-0 | 1,3-Butadiene | 10 | 10.1 | 101 | 10.1 | 101 | 0 | 70-130/30 |
| 71-43-2 | Benzene | 10 | 9.8 | 98 | 10.2 | 102 | 4 | 70-130/30 |
| 75-27-4 | Bromodichloromethane | 10 | 10.3 | 103 | 10.3 | 103 | 0 | 70-130/30 |
| 75-25-2 | Bromoform | 10 | 11.9 | 119 | 12.0 | 120 | 1 | 70-130/30 |
| 74-83-9 | Bromomethane | 10 | 9.7 | 97 | 9.7 | 97 | 0 | 70-130/30 |
| 593-60-2 | Bromoethene | 10 | 9.7 | 97 | 9.8 | 98 | 1 | 70-130/30 |
| 100-44-7 | Benzyl Chloride | 10 | 12.0 | 120 | 12.2 | 122 | 2 | 70-130/30 |
| 75-15-0 | Carbon disulfide | 10 | 10.1 | 101 | 10.1 | 101 | 0 | 70-130/30 |
| 108-90-7 | Chlorobenzene | 10 | 11.1 | 111 | 11.2 | 112 | 1 | 70-130/30 |
| 75-00-3 | Chloroethane | 10 | 10.1 | 101 | 10.1 | 101 | 0 | 70-130/30 |
| 67-66-3 | Chloroform | 10 | 10.3 | 103 | 10.5 | 105 | 2 | 70-130/30 |
| 74-87-3 | Chloromethane | 10 | 9.4 | 94 | 9.5 | 95 | 1 | 70-130/30 |
| 107-05-1 | 3-Chloropropene | 10 | 10.4 | 104 | 10.0 | 100 | 4 | 70-130/30 |
| 95-49-8 | 2-Chlorotoluene | 10 | 11.6 | 116 | 11.6 | 116 | 0 | 70-130/30 |
| 56-23-5 | Carbon tetrachloride | 10 | 9.4 | 94 | 9.6 | 96 | 2 | 70-130/30 |
| 110-82-7 | Cyclohexane | 10 | 10.6 | 106 | 10.5 | 105 | 1 | 70-130/30 |
| 75-34-3 | 1,1-Dichloroethane | 10 | 10.9 | 109 | 11.0 | 110 | 1 | 70-130/30 |
| 75-35-4 | 1,1-Dichloroethylene | 10 | 10.3 | 103 | 10.3 | 103 | 0 | 70-130/30 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | 10 | 10.9 | 109 | 11.0 | 110 | 1 | 70-130/30 |
| 107-06-2 | 1,2-Dichloroethane | 10 | 9.9 | 99 | 10 | 100 | 1 | 70-130/30 |
| 78-87-5 | 1,2-Dichloropropane | 10 | 10.3 | 103 | 10.4 | 104 | 1 | 70-130/30 |
| 123-91-1 | 1,4-Dioxane | 10 | 10.3 | 103 | 10.3 | 103 | 0 | 70-130/30 |
| 75-71-8 | Dichlorodifluoromethane | 10 | 8.3 | 83 | 8.1 | 81 | 2 | 70-130/30 |
| 124-48-1 | Dibromochloromethane | 10 | 11.4 | 114 | 11.4 | 114 | 0 | 70-130/30 |
| 156-60-5 | trans-1,2-Dichloroethylene | 10 | 10.6 | 106 | 10.7 | 107 | 1 | 70-130/30 |
| 156-59-2 | cis-1,2-Dichloroethylene | 10 | 10.7 | 107 | 10.7 | 107 | 0 | 70-130/30 |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | 10.4 | 104 | 10.4 | 104 | 0 | 70-130/30 |
| 541-73-1 | m-Dichlorobenzene | 10 | 12.5 | 125 | 12.6 | 126 | 1 | 70-130/30 |
| 95-50-1 | o-Dichlorobenzene | 10 | 12.7 | 127 | 12.8 | 128 | 1 | 70-130/30 |
| 106-46-7 | p-Dichlorobenzene | 10 | 12.4 | 124 | 12.7 | 127 | 2 | 70-130/30 |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | 10.3 | 103 | 10.5 | 105 | 2 | 70-130/30 |
| 64-17-5 | Ethanol | 10 | 8.6 | 86 | 8.8 | 88 | 2 | 70-130/30 |
| 100-41-4 | Ethylbenzene | 10 | 11.1 | 111 | 11.3 | 113 | 2 | 70-130/30 |
| 141-78-6 | Ethyl Acetate | 10 | 12.1 | 121 | 12.3 | 123 | 2 | 70-130/30 |
| 622-96-8 | 4-Ethyltoluene | 10 | 11.9 | 119 | 12.0 | 120 | 1 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2679-BS | 2W60324.D | 1 | 07/06/22 | TCH | n/a | n/a | V2W2679 |
| V2W2679-BSD | 2W60325.D | 1 | 07/06/22 | TCH | n/a | n/a | V2W2679 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2679-SCC

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | 10 | 9.9 | 99 | 10 | 100 | 1 | 70-130/30 |
| 76-14-2 | Freon 114 | 10 | 10 | 100 | 9.8 | 98 | 2 | 70-130/30 |
| 142-82-5 | Heptane | 10 | 10.2 | 102 | 10.3 | 103 | 1 | 70-130/30 |
| 87-68-3 | Hexachlorobutadiene | 10 | 13.2 | 132* [a] | 13.4 | 134* [a] | 2 | 70-130/30 |
| 110-54-3 | Hexane | 10 | 11.3 | 113 | 11.5 | 115 | 2 | 70-130/30 |
| 591-78-6 | 2-Hexanone | 10 | 11.0 | 110 | 11.1 | 111 | 1 | 70-130/30 |
| 67-63-0 | Isopropyl Alcohol | 10 | 11.0 | 110 | 11.1 | 111 | 1 | 70-130/30 |
| 75-09-2 | Methylene chloride | 10 | 9.3 | 93 | 9.4 | 94 | 1 | 70-130/30 |
| 78-93-3 | Methyl ethyl ketone | 10 | 10.0 | 100 | 9.9 | 99 | 1 | 70-130/30 |
| 108-10-1 | Methyl Isobutyl Ketone | 10 | 11.2 | 112 | 11.2 | 112 | 0 | 70-130/30 |
| 1634-04-4 | Methyl Tert Butyl Ether | 10 | 9.7 | 97 | 9.7 | 97 | 0 | 70-130/30 |
| 80-62-6 | Methylmethacrylate | 10 | 10.5 | 105 | 10.6 | 106 | 1 | 70-130/30 |
| 115-07-1 | Propylene | 10 | 8.4 | 84 | 8.5 | 85 | 1 | 70-130/30 |
| 100-42-5 | Styrene | 10 | 11.5 | 115 | 11.6 | 116 | 1 | 70-130/30 |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | 10.7 | 107 | 10.7 | 107 | 0 | 70-130/30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | 12.5 | 125 | 12.6 | 126 | 1 | 70-130/30 |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | 10.8 | 108 | 10.8 | 108 | 0 | 70-130/30 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | 13.3 | 133* [a] | 13.6 | 136* [a] | 2 | 70-130/30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 10 | 12.3 | 123 | 12.4 | 124 | 1 | 70-130/30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10 | 11.7 | 117 | 11.9 | 119 | 2 | 70-130/30 |
| 540-84-1 | 2,2,4-Trimethylpentane | 10 | 10.8 | 108 | 10.9 | 109 | 1 | 70-130/30 |
| 75-65-0 | Tertiary Butyl Alcohol | 10 | 11.1 | 111 | 11.2 | 112 | 1 | 70-130/30 |
| 127-18-4 | Tetrachloroethylene | 10 | 11.0 | 110 | 11.0 | 110 | 0 | 70-130/30 |
| 109-99-9 | Tetrahydrofuran | 10 | 10.3 | 103 | 10.3 | 103 | 0 | 70-130/30 |
| 108-88-3 | Toluene | 10 | 11.0 | 110 | 11.1 | 111 | 1 | 70-130/30 |
| 79-01-6 | Trichloroethylene | 10 | 10.5 | 105 | 10.6 | 106 | 1 | 70-130/30 |
| 75-69-4 | Trichlorofluoromethane | 10 | 9.4 | 94 | 9.5 | 95 | 1 | 70-130/30 |
| 75-01-4 | Vinyl chloride | 10 | 10.1 | 101 | 10.3 | 103 | 2 | 70-130/30 |
| 108-05-4 | Vinyl Acetate | 10 | 10.9 | 109 | 11.1 | 111 | 2 | 70-130/30 |
| | m,p-Xylene | 20 | 23.2 | 116 | 23.6 | 118 | 2 | 70-130/30 |
| 95-47-6 | o-Xylene | 10 | 11.6 | 116 | 11.8 | 118 | 2 | 70-130/30 |
| 1330-20-7 | Xylenes (total) | 30 | 34.9 | 116 | 35.4 | 118 | 1 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2679-BS | 2W60324.D | 1 | 07/06/22 | TCH | n/a | n/a | V2W2679 |
| V2W2679-BSD | 2W60325.D | 1 | 07/06/22 | TCH | n/a | n/a | V2W2679 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2679-SCC

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 101% | 103% | 65-128% |

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

# Duplicate Summary



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD49030-1DUP | 3W77321.D | 1.6 | 08/02/22 | TCH | n/a | n/a | V3W3043 |
| JD49030-1 | 3W77320.D | 1.6 | 08/02/22 | TCH | n/a | n/a | V3W3043 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD49030-1, JD49030-2

| CAS No. | Compound | JD49030-1 ppbv | Q | DUP ppbv | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | 3.5 | | 3.9 | | 11 | 25 |
| 106-99-0 | 1,3-Butadiene | ND | | ND | | nc | 25 |
| 71-43-2 | Benzene | ND | | ND | | nc | 25 |
| 75-27-4 | Bromodichloromethane | ND | | ND | | nc | 25 |
| 75-25-2 | Bromoform | ND | | ND | | nc | 25 |
| 74-83-9 | Bromomethane | ND | | ND | | nc | 25 |
| 593-60-2 | Bromoethene | ND | | ND | | nc | 25 |
| 100-44-7 | Benzyl Chloride | ND | | ND | | nc | 25 |
| 75-15-0 | Carbon disulfide | ND | | ND | | nc | 25 |
| 108-90-7 | Chlorobenzene | ND | | ND | | nc | 25 |
| 75-00-3 | Chloroethane | ND | | ND | | nc | 25 |
| 67-66-3 | Chloroform | ND | | ND | | nc | 25 |
| 74-87-3 | Chloromethane | 0.47 | J | 0.47 | J | 0 | 25 |
| 107-05-1 | 3-Chloropropene | ND | | ND | | nc | 25 |
| 95-49-8 | 2-Chlorotoluene | ND | | ND | | nc | 25 |
| 56-23-5 | Carbon tetrachloride | ND | | ND | | nc | 25 |
| 110-82-7 | Cyclohexane | ND | | ND | | nc | 25 |
| 75-34-3 | 1,1-Dichloroethane | ND | | ND | | nc | 25 |
| 75-35-4 | 1,1-Dichloroethylene | 0.56 | | 0.46 | J | 20 | 25 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | | ND | | nc | 25 |
| 107-06-2 | 1,2-Dichloroethane | ND | | ND | | nc | 25 |
| 78-87-5 | 1,2-Dichloropropane | ND | | ND | | nc | 25 |
| 123-91-1 | 1,4-Dioxane | ND | | ND | | nc | 25 |
| 75-71-8 | Dichlorodifluoromethane | 0.44 | J | 0.49 | J | 11 | 25 |
| 124-48-1 | Dibromochloromethane | ND | | ND | | nc | 25 |
| 156-60-5 | trans-1,2-Dichloroethylene | 1.6 | | 1.4 | | 13 | 25 |
| 156-59-2 | cis-1,2-Dichloroethylene | 251 | E | 224 | E | 11 | 25 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | ND | | nc | 25 |
| 541-73-1 | m-Dichlorobenzene | ND | | ND | | nc | 25 |
| 95-50-1 | o-Dichlorobenzene | ND | | ND | | nc | 25 |
| 106-46-7 | p-Dichlorobenzene | ND | | ND | | nc | 25 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | ND | | nc | 25 |
| 64-17-5 | Ethanol | 10.4 | | 9.6 | | 8 | 25 |
| 100-41-4 | Ethylbenzene | ND | | ND | | nc | 25 |
| 141-78-6 | Ethyl Acetate | ND | | ND | | nc | 25 |
| 622-96-8 | 4-Ethyltoluene | ND | | ND | | nc | 25 |

* = Outside of Control Limits.

# Duplicate Summary

**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD49030-1DUP | 3W77321.D | 1.6 | 08/02/22 | TCH | n/a | n/a | V3W3043 |
| JD49030-1 | 3W77320.D | 1.6 | 08/02/22 | TCH | n/a | n/a | V3W3043 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD49030-1, JD49030-2

| CAS No. | Compound | JD49030-1 ppbv | Q | DUP ppbv | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | | ND | | nc | 25 |
| 76-14-2 | Freon 114 | ND | | ND | | nc | 25 |
| 142-82-5 | Heptane | ND | | ND | | nc | 25 |
| 87-68-3 | Hexachlorobutadiene | ND | | ND | | nc | 25 |
| 110-54-3 | Hexane | ND | | ND | | nc | 25 |
| 591-78-6 | 2-Hexanone | ND | | ND | | nc | 25 |
| 67-63-0 | Isopropyl Alcohol | ND | | 1.1 | | 200* [a] | 25 |
| 75-09-2 | Methylene chloride | 1.1 | | 2.5 | | 78* [a] | 25 |
| 78-93-3 | Methyl ethyl ketone | 0.57 | J | 0.51 | J | 11 | 25 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | | ND | | nc | 25 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | ND | | nc | 25 |
| 80-62-6 | Methylmethacrylate | ND | | ND | | nc | 25 |
| 115-07-1 | Propylene | ND | | ND | | nc | 25 |
| 100-42-5 | Styrene | ND | | ND | | nc | 25 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | ND | | nc | 25 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | ND | | nc | 25 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | ND | | nc | 25 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | ND | | nc | 25 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | ND | | nc | 25 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | ND | | nc | 25 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | | ND | | nc | 25 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | ND | | nc | 25 |
| 127-18-4 | Tetrachloroethylene | 0.18 | | 0.12 | J | 40* [a] | 25 |
| 109-99-9 | Tetrahydrofuran | ND | | ND | | nc | 25 |
| 108-88-3 | Toluene | ND | | ND | | nc | 25 |
| 79-01-6 | Trichloroethylene | 63.4 | | 56.1 | | 12 | 25 |
| 75-69-4 | Trichlorofluoromethane | 0.90 | | 1.2 | | 29* [a] | 25 |
| 75-01-4 | Vinyl chloride | 29.5 | | 26.2 | | 12 | 25 |
| 108-05-4 | Vinyl Acetate | ND | | ND | | nc | 25 |
| | m,p-Xylene | ND | | ND | | nc | 25 |
| 95-47-6 | o-Xylene | ND | | ND | | nc | 25 |
| 1330-20-7 | Xylenes (total) | ND | | ND | | nc | 25 |

* = Outside of Control Limits.

# Duplicate Summary

**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD49030-1DUP | 3W77321.D | 1.6 | 08/02/22 | TCH | n/a | n/a | V3W3043 |
| JD49030-1 | 3W77320.D | 1.6 | 08/02/22 | TCH | n/a | n/a | V3W3043 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD49030-1, JD49030-2

| CAS No. | Surrogate Recoveries | DUP | JD49030-1 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 99% | 97% | 65-128% |

(a) RPD acceptable due to low DUP and sample concentrations.

* = Outside of Control Limits.

# Duplicate Summary



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD49249-3DUP | 3W77358.D | 1 | 08/03/22 | TCH | n/a | n/a | V3W3044 |
| JD49249-3 | 3W77357.D | 1 | 08/03/22 | TCH | n/a | n/a | V3W3044 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD49030-1

| CAS No. | Compound | JD49249-3 ppbv | Q | DUP ppbv | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethylene | ND | | ND | | nc | 25 |

| CAS No. | Surrogate Recoveries | DUP | JD49249-3 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 105% | 103% | 65-128% |

* = Outside of Control Limits.

# Summa Cleaning Certification



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2679-SCC | 2W60345.D | 1 | 07/06/22 | TCH | n/a | n/a | V2W2679 |

**The QC reported here (Summa A1381) applies to the following samples:** **Method:** TO-15

Batch CP11792 cleaned 06/14/22: JD49030-1(A799), JD49030-2(A525)

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | ND | 0.80 | 0.58 | ppbv | | ND | 1.9 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | ND | 0.80 | 0.34 | ppbv | | ND | 1.8 | ug/m3 |
| 71-43-2 | Benzene | ND | 0.80 | 0.25 | ppbv | | ND | 2.6 | ug/m3 |
| 75-27-4 | Bromodichloromethane | ND | 0.80 | 0.12 | ppbv | | ND | 5.4 | ug/m3 |
| 75-25-2 | Bromoform | ND | 0.80 | 0.28 | ppbv | | ND | 8.3 | ug/m3 |
| 74-83-9 | Bromomethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.1 | ug/m3 |
| 593-60-2 | Bromoethene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | ug/m3 |
| 100-44-7 | Benzyl Chloride | ND | 0.80 | 0.50 | ppbv | | ND | 4.1 | ug/m3 |
| 75-15-0 | Carbon disulfide | ND | 0.80 | 0.18 | ppbv | | ND | 2.5 | ug/m3 |
| 108-90-7 | Chlorobenzene | ND | 0.80 | 0.30 | ppbv | | ND | 3.7 | ug/m3 |
| 75-00-3 | Chloroethane | ND | 0.80 | 0.27 | ppbv | | ND | 2.1 | ug/m3 |
| 67-66-3 | Chloroform | ND | 0.80 | 0.15 | ppbv | | ND | 3.9 | ug/m3 |
| 74-87-3 | Chloromethane | ND | 0.80 | 0.36 | ppbv | | ND | 1.7 | ug/m3 |
| 107-05-1 | 3-Chloropropene | ND | 0.80 | 0.33 | ppbv | | ND | 2.5 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.80 | 0.29 | ppbv | | ND | 4.1 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.80 | 0.16 | ppbv | | ND | 5.0 | ug/m3 |
| 110-82-7 | Cyclohexane | ND | 0.80 | 0.44 | ppbv | | ND | 2.8 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.80 | 0.23 | ppbv | | ND | 3.2 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.80 | 0.24 | ppbv | | ND | 3.2 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | 0.80 | 0.39 | ppbv | | ND | 6.1 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.80 | 0.25 | ppbv | | ND | 3.7 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | ND | 0.80 | 0.47 | ppbv | | ND | 2.9 | ug/m3 |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.80 | 0.13 | ppbv | | ND | 4.0 | ug/m3 |
| 124-48-1 | Dibromochloromethane | ND | 0.80 | 0.21 | ppbv | | ND | 6.8 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.2 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.80 | 0.25 | ppbv | | ND | 3.6 | ug/m3 |
| 541-73-1 | m-Dichlorobenzene | ND | 0.80 | 0.16 | ppbv | | ND | 4.8 | ug/m3 |
| 95-50-1 | o-Dichlorobenzene | ND | 0.80 | 0.62 | ppbv | | ND | 4.8 | ug/m3 |
| 106-46-7 | p-Dichlorobenzene | ND | 0.80 | 0.76 | ppbv | | ND | 4.8 | ug/m3 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.80 | 0.40 | ppbv | | ND | 3.6 | ug/m3 |
| 64-17-5 | Ethanol | ND | 2.0 | 1.6 | ppbv | | ND | 3.8 | ug/m3 |
| 100-41-4 | Ethylbenzene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | ug/m3 |
| 141-78-6 | Ethyl Acetate | ND | 0.80 | 0.42 | ppbv | | ND | 2.9 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | ND | 0.80 | 0.38 | ppbv | | ND | 3.9 | ug/m3 |

# Summa Cleaning Certification



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2679-SCC | 2W60345.D | 1 | 07/06/22 | TCH | n/a | n/a | V2W2679 |

**The QC reported here (Summa A1381) applies to the following samples:** **Method:** TO-15

Batch CP11792 cleaned 06/14/22: JD49030-1(A799), JD49030-2(A525)

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | 0.80 | 0.12 | ppbv | | ND | 6.1 | ug/m3 |
| 76-14-2 | Freon 114 | ND | 0.80 | 0.20 | ppbv | | ND | 5.6 | ug/m3 |
| 142-82-5 | Heptane | ND | 0.80 | 0.37 | ppbv | | ND | 3.3 | ug/m3 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.80 | 0.25 | ppbv | | ND | 8.5 | ug/m3 |
| 110-54-3 | Hexane | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | ug/m3 |
| 591-78-6 | 2-Hexanone | ND | 0.80 | 0.58 | ppbv | | ND | 3.3 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | ND | 0.80 | 0.56 | ppbv | | ND | 2.0 | ug/m3 |
| 75-09-2 | Methylene chloride | ND | 0.80 | 0.22 | ppbv | | ND | 2.8 | ug/m3 |
| 78-93-3 | Methyl ethyl ketone | ND | 0.80 | 0.44 | ppbv | | ND | 2.4 | ug/m3 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | 0.80 | 0.29 | ppbv | | ND | 3.3 | ug/m3 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.80 | 0.32 | ppbv | | ND | 2.9 | ug/m3 |
| 80-62-6 | Methylmethacrylate | ND | 0.80 | 0.28 | ppbv | | ND | 3.3 | ug/m3 |
| 115-07-1 | Propylene | ND | 2.0 | 0.57 | ppbv | | ND | 3.4 | ug/m3 |
| 100-42-5 | Styrene | ND | 0.80 | 0.47 | ppbv | | ND | 3.4 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.80 | 0.15 | ppbv | | ND | 4.4 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.80 | 0.19 | ppbv | | ND | 5.5 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.80 | 0.15 | ppbv | | ND | 4.4 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.80 | 0.48 | ppbv | | ND | 5.9 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.80 | 0.35 | ppbv | | ND | 3.9 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.80 | 0.32 | ppbv | | ND | 3.9 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | 0.80 | 0.38 | ppbv | | ND | 3.7 | ug/m3 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 0.80 | 0.37 | ppbv | | ND | 2.4 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.16 | 0.056 | ppbv | | ND | 1.1 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | ND | 0.80 | 0.36 | ppbv | | ND | 2.4 | ug/m3 |
| 108-88-3 | Toluene | ND | 0.80 | 0.23 | ppbv | | ND | 3.0 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.16 | 0.076 | ppbv | | ND | 0.86 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.80 | 0.14 | ppbv | | ND | 4.5 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.80 | 0.28 | ppbv | | ND | 2.0 | ug/m3 |
| 108-05-4 | Vinyl Acetate | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | ug/m3 |
| | m,p-Xylene | ND | 0.80 | 0.56 | ppbv | | ND | 3.5 | ug/m3 |
| 95-47-6 | o-Xylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | ug/m3 |
| 1330-20-7 | Xylenes (total) | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | ug/m3 |

# Summa Cleaning Certification



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2679-SCC | 2W60345.D | 1 | 07/06/22 | TCH | n/a | n/a | V2W2679 |

**The QC reported here (Summa A1381) applies to the following samples:** **Method:** TO-15

Batch CP11792 cleaned 06/14/22: JD49030-1(A799), JD49030-2(A525)

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 87% | 65-128% |

# Instrument Performance Check (BFB)



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| | | | |
|---|---|---|---|
| **Sample:** | V2W2640-BFB | **Injection Date:** | 05/17/22 |
| **Lab File ID:** | 2W59350.D | **Injection Time:** | 15:59 |
| **Instrument ID:** | GCMS2W | | |

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 67301 | 20.7 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 161493 | 49.8 | | Pass |
| 95 | Base peak, 100% relative abundance | 324459 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 20840 | 6.42 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 266091 | 82.0 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 18581 | 5.73 | (6.98) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 251008 | 77.4 | (94.3) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 16071 | 4.95 | (6.40) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2W2640-IC2640 | 2W59351.D | 05/17/22 | 16:34 | 00:35 | Initial cal 0.04 |
| V2W2640-IC2640 | 2W59352.D | 05/17/22 | 17:10 | 01:11 | Initial cal 0.1 |
| V2W2640-IC2640 | 2W59353.D | 05/17/22 | 17:47 | 01:48 | Initial cal 0.2 |
| V2W2640-IC2640 | 2W59354.D | 05/17/22 | 18:26 | 02:27 | Initial cal 0.5 |
| V2W2640-IC2640 | 2W59355.D | 05/17/22 | 19:02 | 03:03 | Initial cal 5 |
| V2W2640-ICC2640 | 2W59356.D | 05/17/22 | 19:39 | 03:40 | Initial cal 10 |
| V2W2640-IC2640 | 2W59357.D | 05/17/22 | 20:17 | 04:18 | Initial cal 20 |
| V2W2640-IC2640 | 2W59358.D | 05/17/22 | 21:00 | 05:01 | Initial cal 40 |
| V2W2640-IC2640 | 2W59359.D | 05/17/22 | 21:44 | 05:45 | Initial cal 50 |
| V2W2640-ICV2640 | 2W59370.D | 05/18/22 | 15:24 | 23:25 | Initial cal verification 10 |

# Instrument Performance Check (BFB)



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| | | | |
|---|---|---|---|
| **Sample:** | V2W2679-BFB | **Injection Date:** | 07/06/22 |
| **Lab File ID:** | 2W60322.D | **Injection Time:** | 08:05 |
| **Instrument ID:** | GCMS2W | | |

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 62139 | 20.5 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 144960 | 47.9 | | Pass |
| 95 | Base peak, 100% relative abundance | 302485 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 19397 | 6.41 | | Pass |
| 173 | Less than 2.0% of mass 174 | 1293 | 0.43 | (0.51) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 252309 | 83.4 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 17861 | 5.90 | (7.08) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 244843 | 80.9 | (97.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 15727 | 5.20 | (6.42) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2W2679-CC2640 | 2W60323.D | 07/06/22 | 08:43 | 00:38 | Continuing cal 10 |
| V2W2679-BS | 2W60324.D | 07/06/22 | 09:38 | 01:33 | Blank Spike |
| V2W2679-BSD | 2W60325.D | 07/06/22 | 10:15 | 02:10 | Blank Spike Duplicate |
| V2W2679-MB | 2W60327.D | 07/06/22 | 11:43 | 03:38 | Method Blank |
| JD47781-1 | 2W60328.D | 07/06/22 | 12:44 | 04:39 | (used for QC only; not part of job JD49030) |
| JD47781-1DUP | 2W60329.D | 07/06/22 | 13:22 | 05:17 | Duplicate |
| ZZZZZZ | 2W60330.D | 07/06/22 | 13:59 | 05:54 | (unrelated sample) |
| ZZZZZZ | 2W60331.D | 07/06/22 | 14:43 | 06:38 | (unrelated sample) |
| ZZZZZZ | 2W60332.D | 07/06/22 | 15:27 | 07:22 | (unrelated sample) |
| ZZZZZZ | 2W60333.D | 07/06/22 | 16:11 | 08:06 | (unrelated sample) |
| ZZZZZZ | 2W60334.D | 07/06/22 | 16:48 | 08:43 | (unrelated sample) |
| ZZZZZZ | 2W60335.D | 07/06/22 | 17:26 | 09:21 | (unrelated sample) |
| V2W2679-SCC | 2W60337.D | 07/06/22 | 18:46 | 10:41 | Summa Cleaning Certification |
| V2W2679-SCC | 2W60338.D | 07/06/22 | 19:23 | 11:18 | Summa Cleaning Certification |
| V2W2679-SCC | 2W60340.D | 07/06/22 | 20:37 | 12:32 | Summa Cleaning Certification |
| V2W2679-SCC | 2W60341.D | 07/06/22 | 21:15 | 13:10 | Summa Cleaning Certification |
| V2W2679-SCC | 2W60343.D | 07/06/22 | 22:30 | 14:25 | Summa Cleaning Certification |
| V2W2679-SCC | 2W60345.D | 07/06/22 | 23:45 | 15:40 | Summa Cleaning Certification |
| V2W2679-SCC | 2W60346.D | 07/07/22 | 00:22 | 16:17 | Summa Cleaning Certification |
| V2W2679-SCC | 2W60348.D | 07/07/22 | 01:47 | 17:42 | Summa Cleaning Certification |
| V2W2679-SCC | 2W60349.D | 07/07/22 | 02:30 | 18:25 | Summa Cleaning Certification |
| V2W2679-SCC | 2W60350.D | 07/07/22 | 03:13 | 19:08 | Summa Cleaning Certification |
| V2W2679-SCC | 2W60351.D | 07/07/22 | 03:56 | 19:51 | Summa Cleaning Certification |
| V2W2679-SCC | 2W60352.D | 07/07/22 | 04:40 | 20:35 | Summa Cleaning Certification |

# Instrument Performance Check (BFB)



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

**Sample:** V3W3037-BFB
**Lab File ID:** 3W77136.D
**Instrument ID:** GCMS3W
**Injection Date:** 07/25/22
**Injection Time:** 08:57

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 25043 | 20.5 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 60651 | 49.7 | | Pass |
| 95 | Base peak, 100% relative abundance | 122011 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 8304 | 6.81 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 115725 | 94.8 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 8850 | 7.25 | (7.65) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 112181 | 91.9 | (96.9) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 7507 | 6.15 | (6.69) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V3W3037-IC3037 | 3W77138.D | 07/25/22 | 10:25 | 01:28 | Initial cal 0.04 |
| V3W3037-IC3037 | 3W77139.D | 07/25/22 | 11:04 | 02:07 | Initial cal 0.1 |
| V3W3037-IC3037 | 3W77140.D | 07/25/22 | 11:43 | 02:46 | Initial cal 0.2 |
| V3W3037-IC3037 | 3W77142.D | 07/25/22 | 14:31 | 05:34 | Initial cal 5 |
| V3W3037-ICC3037 | 3W77143.D | 07/25/22 | 15:51 | 06:54 | Initial cal 10 |
| V3W3037-IC3037 | 3W77144.D | 07/25/22 | 16:32 | 07:35 | Initial cal 20 |
| V3W3037-IC3037 | 3W77145.D | 07/25/22 | 17:17 | 08:20 | Initial cal 40 |
| V3W3037-IC3037 | 3W77146.D | 07/25/22 | 18:05 | 09:08 | Initial cal 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| | | | |
|---|---|---|---|
| **Sample:** | V3W3037-BFB | **Injection Date:** | 07/26/22 |
| **Lab File ID:** | 3W77154.D | **Injection Time:** | 08:58 |
| **Instrument ID:** | GCMS3W | | |

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 21392 | 21.1 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 51243 | 50.5 | | Pass |
| 95 | Base peak, 100% relative abundance | 101501 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 6829 | 6.73 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 92240 | 90.9 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 7315 | 7.21 | (7.93) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 89637 | 88.3 | (97.2) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 6146 | 6.06 | (6.86) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V3W3037-IC3037 | 3W77155.D | 07/26/22 | 09:36 | 00:38 | Initial cal 0.5 |
| V3W3037-ICV3037 | 3W77157.D | 07/26/22 | 11:25 | 02:27 | Initial cal verification 10 |

# Instrument Performance Check (BFB)



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| | | | |
|---|---|---|---|
| **Sample:** | V3W3043-BFB | **Injection Date:** | 08/02/22 |
| **Lab File ID:** | 3W77314.D | **Injection Time:** | 09:40 |
| **Instrument ID:** | GCMS3W | | |

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 23645 | 19.8 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 61899 | 51.8 | | Pass |
| 95 | Base peak, 100% relative abundance | 119603 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 7755 | 6.48 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 118133 | 98.8 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 9243 | 7.73 | (7.82) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 116272 | 97.2 | (98.4) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 7822 | 6.54 | (6.73) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V3W3043-CC3037 | 3W77315.D | 08/02/22 | 10:20 | 00:40 | Continuing cal 10 |
| V3W3043-BS | 3W77316.D | 08/02/22 | 11:02 | 01:22 | Blank Spike |
| V3W3043-BSD | 3W77317.D | 08/02/22 | 11:43 | 02:03 | Blank Spike Duplicate |
| V3W3043-MB | 3W77319.D | 08/02/22 | 13:12 | 03:32 | Method Blank |
| JD49030-1 | 3W77320.D | 08/02/22 | 14:05 | 04:25 | VINF |
| JD49030-1DUP | 3W77321.D | 08/02/22 | 14:46 | 05:06 | Duplicate |
| JD49030-2 | 3W77322.D | 08/02/22 | 15:25 | 05:45 | VPOST GAC |
| ZZZZZZ | 3W77323.D | 08/02/22 | 16:05 | 06:25 | (unrelated sample) |
| ZZZZZZ | 3W77324.D | 08/02/22 | 16:44 | 07:04 | (unrelated sample) |
| ZZZZZZ | 3W77325.D | 08/02/22 | 17:23 | 07:43 | (unrelated sample) |
| ZZZZZZ | 3W77326.D | 08/02/22 | 18:01 | 08:21 | (unrelated sample) |
| ZZZZZZ | 3W77327.D | 08/02/22 | 18:41 | 09:01 | (unrelated sample) |
| ZZZZZZ | 3W77329.D | 08/02/22 | 20:12 | 10:32 | (unrelated sample) |
| ZZZZZZ | 3W77330.D | 08/02/22 | 20:58 | 11:18 | (unrelated sample) |
| ZZZZZZ | 3W77331.D | 08/02/22 | 21:38 | 11:58 | (unrelated sample) |
| ZZZZZZ | 3W77332.D | 08/02/22 | 22:18 | 12:38 | (unrelated sample) |
| ZZZZZZ | 3W77333.D | 08/02/22 | 23:02 | 13:22 | (unrelated sample) |
| ZZZZZZ | 3W77334.D | 08/02/22 | 23:47 | 14:07 | (unrelated sample) |
| ZZZZZZ | 3W77335.D | 08/03/22 | 00:33 | 14:53 | (unrelated sample) |
| ZZZZZZ | 3W77336.D | 08/03/22 | 01:18 | 15:38 | (unrelated sample) |
| ZZZZZZ | 3W77337.D | 08/03/22 | 02:03 | 16:23 | (unrelated sample) |
| ZZZZZZ | 3W77338.D | 08/03/22 | 02:49 | 17:09 | (unrelated sample) |
| ZZZZZZ | 3W77339.D | 08/03/22 | 03:35 | 17:55 | (unrelated sample) |
| ZZZZZZ | 3W77340.D | 08/03/22 | 04:20 | 18:40 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| | | | |
|---|---|---|---|
| **Sample:** | V3W3043-BFB | **Injection Date:** | 08/02/22 |
| **Lab File ID:** | 3W77314.D | **Injection Time:** | 09:40 |
| **Instrument ID:** | GCMS3W | | |

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V3W3043-SCC | 3W77343.D | 08/03/22 | 06:37 | 20:57 | Summa Cleaning Certification |
| V3W3043-SCC | 3W77344.D | 08/03/22 | 07:23 | 21:43 | Summa Cleaning Certification |
| V3W3043-SCC | 3W77345.D | 08/03/22 | 08:09 | 22:29 | Summa Cleaning Certification |

# Instrument Performance Check (BFB)



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| | | | |
|---|---|---|---|
| **Sample:** | V3W3044-BFB | **Injection Date:** | 08/03/22 |
| **Lab File ID:** | 3W77346.D | **Injection Time:** | 09:27 |
| **Instrument ID:** | GCMS3W | | |

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 24208 | 21.7 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 60317 | 54.1 | | Pass |
| 95 | Base peak, 100% relative abundance | 111453 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 7680 | 6.89 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 116875 | 104.9 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 9406 | 8.44 | (8.05) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 114531 | 102.8 | (98.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 7811 | 7.01 | (6.82) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V3W3044-CC3037 | 3W77347.D | 08/03/22 | 10:07 | 00:40 | Continuing cal 10 |
| V3W3044-BS | 3W77348.D | 08/03/22 | 10:49 | 01:22 | Blank Spike |
| V3W3044-BSD | 3W77349.D | 08/03/22 | 11:29 | 02:02 | Blank Spike Duplicate |
| V3W3044-MB | 3W77351.D | 08/03/22 | 12:57 | 03:30 | Method Blank |
| JD49030-1 | 3W77352.D | 08/03/22 | 13:48 | 04:21 | VINF |
| ZZZZZZ | 3W77353.D | 08/03/22 | 14:33 | 05:06 | (unrelated sample) |
| ZZZZZZ | 3W77354.D | 08/03/22 | 15:13 | 05:46 | (unrelated sample) |
| ZZZZZZ | 3W77355.D | 08/03/22 | 15:53 | 06:26 | (unrelated sample) |
| ZZZZZZ | 3W77356.D | 08/03/22 | 16:33 | 07:06 | (unrelated sample) |
| JD49249-3 | 3W77357.D | 08/03/22 | 17:18 | 07:51 | (used for QC only; not part of job JD49030) |
| JD49249-3DUP | 3W77358.D | 08/03/22 | 18:03 | 08:36 | Duplicate |
| ZZZZZZ | 3W77360.D | 08/03/22 | 19:36 | 10:09 | (unrelated sample) |
| ZZZZZZ | 3W77361.D | 08/03/22 | 20:21 | 10:54 | (unrelated sample) |
| ZZZZZZ | 3W77362.D | 08/03/22 | 21:01 | 11:34 | (unrelated sample) |
| ZZZZZZ | 3W77363.D | 08/03/22 | 21:46 | 12:19 | (unrelated sample) |
| ZZZZZZ | 3W77364.D | 08/03/22 | 22:31 | 13:04 | (unrelated sample) |
| ZZZZZZ | 3W77365.D | 08/03/22 | 23:12 | 13:45 | (unrelated sample) |
| ZZZZZZ | 3W77366.D | 08/03/22 | 23:52 | 14:25 | (unrelated sample) |
| ZZZZZZ | 3W77367.D | 08/04/22 | 00:32 | 15:05 | (unrelated sample) |
| ZZZZZZ | 3W77368.D | 08/04/22 | 01:12 | 15:45 | (unrelated sample) |
| ZZZZZZ | 3W77369.D | 08/04/22 | 01:51 | 16:24 | (unrelated sample) |
| ZZZZZZ | 3W77370.D | 08/04/22 | 02:31 | 17:04 | (unrelated sample) |
| ZZZZZZ | 3W77371.D | 08/04/22 | 03:11 | 17:44 | (unrelated sample) |
| ZZZZZZ | 3W77372.D | 08/04/22 | 03:49 | 18:22 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

| | | | |
|---|---|---|---|
| **Sample:** | V3W3044-BFB | **Injection Date:** | 08/03/22 |
| **Lab File ID:** | 3W77346.D | **Injection Time:** | 09:27 |
| **Instrument ID:** | GCMS3W | | |

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V3W3044-SCC | 3W77375.D | 08/04/22 | 06:05 | 20:38 | Summa Cleaning Certification |

# Surrogate Recovery Summary



**Job Number:** JD49030
**Account:** ESCVAR WSP Environment & Energy
**Project:** Former Ithaca Power Transmission, Ithaca, NY

**Method:** TO-15 **Matrix:** AIR

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 |
|---|---|---|
| JD49030-1 | 3W77352.D | 90 |
| JD49030-1 | 3W77320.D | 97 |
| JD49030-2 | 3W77322.D | 101 |
| JD49030-1DUP | 3W77321.D | 99 |
| JD49249-3DUP | 3W77358.D | 105 |
| V2W2679-SCC | 2W60345.D | 87 |
| V3W3043-BS | 3W77316.D | 103 |
| V3W3043-BSD | 3W77317.D | 106 |
| V3W3043-MB | 3W77319.D | 106 |
| V3W3044-BS | 3W77348.D | 100 |
| V3W3044-BSD | 3W77349.D | 100 |
| V3W3044-MB | 3W77351.D | 99 |
| V2W2679-BS | 2W60324.D | 101 |
| V2W2679-BSD | 2W60325.D | 103 |
| V2W2679-MB | 2W60327.D | 89 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = 4-Bromofluorobenzene | 65-128% |

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*
*Automated Report*

Technical Report for

WSP USA Environment & Infrastructure Inc

EPT, Ithaca, NY

31405608.00102LBR

SGS Job Number: JD54302

Sampling Date: 10/24/22



Report to:

WSP
13530 DULLES TECHNOLOGY DRIVE Suite 300
Herndon, VA 20171
Nathaniel.Winston@wsp.com; jeffrey.baker@wsp.com

ATTN: Nathaniel Winston

Total number of pages in report: **251**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Sections: 1 2 3 4 5 6 7

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SGS North America Inc.

# Sample Summary

WSP USA Environment & Infrastructure Inc

**Job No:** JD54302

EPT, Ithaca, NY
Project No: 31405608.00102LBR

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| This report contains results reported as ND = Not detected. The following applies: | | | | | | | |
| Organics ND = Not detected above the MDL | | | | | | | |
| JD54302-1 | 10/24/22 | 11:15 | NW | 10/25/22 | AQ | Ground Water | WPOST GAC |
| JD54302-2 | 10/24/22 | 11:20 | NW | 10/25/22 | AQ | Ground Water | WMID GAC |
| JD54302-3 | 10/24/22 | 11:25 | NW | 10/25/22 | AQ | Ground Water | WAS |
| JD54302-4 | 10/24/22 | 11:30 | NW | 10/25/22 | AQ | Influent | WINF |
| JD54302-5 | 10/24/22 | 11:30 | NW | 10/25/22 | AQ | Trip Blank Water | TRIP BLANK |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | WSP USA Environment & Infrastructure Inc | **Job No** | JD54302 |
| **Site:** | EPT, Ithaca, NY | **Report Date** | 11/2/2022 5:02:46 PM |

On 10/25/2022, 4 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.1 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD54302 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

## MS Volatiles By Method SW846 8260D

**Matrix:** AQ **Batch ID:** V2A9619

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD54302-4MS, JD54302-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for cis-1,2-Dichloroethene, Trichloroethene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for cis-1,2-Dichloroethene, Trichloroethene are outside control limits. Outside control limits due to matrix interference.
- JD54302-5 for Vinyl chloride: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-5 for Methylcyclohexane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-5 for Methyl Acetate: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-5 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-5 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-1 for 2-Butanone (MEK): Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-5 for 2-Butanone (MEK): Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-1 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-5 for 1,2-Dichloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-5 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-1 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-1 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-1 for Methyl Acetate: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-1 for Methylcyclohexane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-1 for Vinyl chloride: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

## MS Volatiles By Method SW846 8260D

**Matrix:** AQ **Batch ID:** V2A9619

- JD54302-1 for 1,2-Dichloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

**Matrix:** AQ **Batch ID:** VL10552

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD54108-4MS, JD54108-4MSD were used as the QC samples indicated.
- JD54302-2 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-3 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-4 for Cyclohexane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-3 for Dichlorodifluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-4 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-4 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD54302-2 for Cyclohexane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-2 for Dichlorodifluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-3 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD54302-2 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD54302-3 for Cyclohexane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-4 for Dichlorodifluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

# Summary of Hits

**Job Number:** JD54302
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 10/24/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **JD54302-1** | **WPOST GAC** | | | | | |
| cis-1,2-Dichloroethene | | 3.0 | 1.0 | 0.51 | ug/l | SW846 8260D |
| **JD54302-2** | **WMID GAC** | | | | | |
| Chloroform | | 0.56 J | 1.0 | 0.50 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 8.1 | 1.0 | 0.51 | ug/l | SW846 8260D |
| **JD54302-3** | **WAS** | | | | | |
| cis-1,2-Dichloroethene | | 2.4 | 1.0 | 0.51 | ug/l | SW846 8260D |
| Trichloroethene | | 0.68 J | 1.0 | 0.53 | ug/l | SW846 8260D |
| **JD54302-4** | **WINF** | | | | | |
| cis-1,2-Dichloroethene | | 735 | 10 | 5.1 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene | | 4.4 | 1.0 | 0.54 | ug/l | SW846 8260D |
| Trichloroethene | | 421 | 10 | 5.3 | ug/l | SW846 8260D |
| Vinyl chloride | | 5.7 | 1.0 | 0.52 | ug/l | SW846 8260D |
| **JD54302-5** | **TRIP BLANK** | | | | | |

No hits reported in this sample.

## Sample Results

Report of Analysis

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOST GAC | | |
| **Lab Sample ID:** | JD54302-1 | **Date Sampled:** | 10/24/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 10/25/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2A221308.D | 1 | 10/28/22 08:44 | NW | n/a | n/a | V2A9619 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) [a] | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide [a] | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [a] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane [a] | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 3.0 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOST GAC | | |
| **Lab Sample ID:** | JD54302-1 | **Date Sampled:** | 10/24/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 10/25/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate [a] | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane [a] | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride [a] | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 95% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 86% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 82-114% |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WMID GAC | | |
| **Lab Sample ID:** | JD54302-2 | **Date Sampled:** | 10/24/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 10/25/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L348816.D | 1 | 10/29/22 17:24 | BK | n/a | n/a | VL10552 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | 0.56 | 1.0 | 0.50 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane [a] | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane [a] | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 8.1 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WMID GAC | | |
| **Lab Sample ID:** | JD54302-2 | **Date Sampled:** | 10/24/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 10/25/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 105% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 82-114% |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WAS | | |
| **Lab Sample ID:** | JD54302-3 | **Date Sampled:** | 10/24/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 10/25/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L348817.D | 1 | 10/29/22 17:48 | BK | n/a | n/a | VL10552 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane [a] | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane [a] | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 2.4 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WAS | | |
| **Lab Sample ID:** | JD54302-3 | **Date Sampled:** | 10/24/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 10/25/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 0.68 | 1.0 | 0.53 | ug/l | J |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 104% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 82-114% |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WINF | | |
| **Lab Sample ID:** | JD54302-4 | **Date Sampled:** | 10/24/22 |
| **Matrix:** | AQ - Influent | **Date Received:** | 10/25/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L348804.D | 1 | 10/29/22 12:47 | BK | n/a | n/a | VL10552 |
| Run #2 | 2A221293.D | 10 | 10/28/22 01:40 | NW | n/a | n/a | V2A9619 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane [a] | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane [a] | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 735 [c] | 10 | 5.1 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 4.4 | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WINF | | |
| **Lab Sample ID:** | JD54302-4 | **Date Sampled:** | 10/24/22 |
| **Matrix:** | AQ - Influent | **Date Received:** | 10/25/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 421 [c] | 10 | 5.3 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 5.7 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | 98% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107% | 91% | 80-120% |
| 2037-26-5 | Toluene-D8 | 103% | 99% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 96% | 82-114% |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(b) Associated CCV outside of control limits high, sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | JD54302-5 | **Date Sampled:** | 10/24/22 |
| **Matrix:** | AQ - Trip Blank Water | **Date Received:** | 10/25/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2A221292.D | 1 | 10/28/22 01:11 | NW | n/a | n/a | V2A9619 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) [a] | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide [a] | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [a] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane [a] | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | JD54302-5 | **Date Sampled:** | 10/24/22 |
| **Matrix:** | AQ - Trip Blank Water | **Date Received:** | 10/25/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate [a] | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane [a] | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride [a] | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 82-114% |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

## Misc. Forms

# Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

SGS

GW
TB

# CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

JD54302

Page 1 of 1

| FED-EX Tracking # | Bottle Order Control # TS-112321-188 |
|---|---|
| SGS Quote # | SGS Job # |

**Client / Reporting Information**

Company Name: WSP USA
Street Address: 40 LaRiviere Dr
City State Zip: Buffalo NY
Project Contact E-mail: JEFFREY.BAKER@WSP.com
Phone #: 724-882-9723
Sampler(s) Name(s) Phone #: NATE WINSTON

**Project Information**

Project Name: EPT, ITHACA, NY
Street: 1
City State: ITHACA NY
Project #: 31405608.001 02 LBR
Client Purchase Order #:
Project Manager: TAMMY McCloskey

Billing Information (if different from Report to)
Company Name:
Street Address:
City State Zip:
Attention:

B2GD TCI 42

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

| SGS Sample # | Field ID / Point of Collection | MEOH/DI Vial # | Collection Date | Collection Time | Sampled by | Grab (G) Comp (C) | Source Chlorinated (Y/N) | Matrix | Number of Bottles # of bottles | HCl | NaOH | $HNO_3$ | $H_2SO_4$ | NONE | DI Water | MEOH | ENCORE | pH Check (Lab Use Only) | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | WPOST GAC | | 10/24/22 | 1115 | NW | G | N | GW | 3 | X | | | | | | | | X | V898 |
| 2 | WMID GAC | | | 1120 | | | | | 3 | X | | | | | | | | X | |
| 3 | WAS | | | 1125 | | | | | 3 | X | | | | | | | | X | |
| 4 | WINF | | | 1130 | | | | | 3 | X | | | | | | | | X | |
| 5 | TRIP BLANK | | | | | | | | 2 | X | | | | | | | | X | |

WSP
EPT Ithaca NY
TS-112321-188
Please place on the back of original (white copy of COC)
This will assist us in processing your samples
Thank You

**Turn Around Time (Business Days)**

Approved By (SGS PM) / Date:

- ☐ 10 Business Days
- ☐ 5 Business Days
- ☐ 3 Business Days*
- ☐ 2 Business Days*
- ☐ 1 Business Day*
- ☒ Other 7-DAY

All data available via SGS Engage

* Approval needed for 1-3 BD TAT

**Deliverable**

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ NJ Reduced (Level 3)
- ☐ Full Tier I (Level 4)
- ☐ Commercial "C"
- ☐ NJ DKQP
- ☐ NYASP Category A
- ☒ NYASP Category B
- ☐ MA MCP Criteria ____
- ☐ CT RCP Criteria ____
- ☐ State Forms
- ☐ EDD Format ____

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

| Relinquished by: | Date / Time: | Received By: | Relinquished By: | Date / Time: | Received By: |
|---|---|---|---|---|---|
| 1 [signature] | 1500 10/24/22 | 1 Fedex | 2 Fedex | 10/25/22 9:30 | 2 [signature] |
| 3 | | 3 | 4 | | 4 |
| 5 | | 5 Initial Assessment TC 3A | Custody Seal # | ☐ Intact ☐ Not intact ☐ Absent | Therm ID: See Sample Receipt Summary On Ice ☑ Cooler Temp. °C |

EHSA-QAC-0023-05 Rev.Date:8/5/22

Label Verification ____

3.1

JD54302: Chain of Custody
Page 1 of 2

5.1
5
19 of 251
SGS
JD54302

# SGS Sample Receipt Summary

**Job Number:** JD54302 **Client:** WSP **Project:** EPT, ITHACA, NY

**Date / Time Received:** 10/25/2022 9:30:00 AM **Delivery Method:** FEDEX **Airbill #'s:**

**Cooler Temps (Raw Measured) °C:** Cooler 1: (3.1);

**Cooler Temps (Corrected) °C:** Cooler 1: (3.1);

| Cooler Security | Y | or | N | | Y | or | N |
|---|---|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | | ☐ | 3. COC Present: | ☑ | | ☐ |
| 2. Custody Seals Intact: | ☑ | | ☐ | 4. Smpl Dates/Time OK | ☑ | | ☐ |

| Cooler Temperature | Y | or | N |
|---|---|---|---|
| 1. Temp criteria achieved: | ☑ | | ☐ |
| 2. Cooler temp verification: | | | |
| 3. Cooler media: | Ice (Bag) | | |
| 4. No. Coolers: | 1 | | |

| Quality Control Preservation | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Trip Blank present / cooler: | ☑ | | ☐ | ☐ |
| 2. Trip Blank listed on COC: | ☑ | | ☐ | ☐ |
| 3. Samples preserved properly: | ☑ | | ☐ | |
| 4. VOCs headspace free: | ☑ | | ☐ | ☐ |

| Sample Integrity - Documentation | Y | or | N |
|---|---|---|---|
| 1. Sample labels present on bottles: | ☑ | | ☐ |
| 2. Container labeling complete: | ☑ | | ☐ |
| 3. Sample container label / COC agree: | ☑ | | ☐ |

| Sample Integrity - Condition | Y | or | N |
|---|---|---|---|
| 1. Sample recvd within HT: | ☑ | | ☐ |
| 2. All containers accounted for: | ☑ | | ☐ |
| 3. Condition of sample: | Intact | | |

| Sample Integrity - Instructions | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | | ☐ | |
| 4. Compositing instructions clear: | ☐ | | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | | ☐ | ☑ |

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

# Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

**Job No:** JD54302

EPT, Ithaca, NY
Project No: 31405608.00102LBR

| Sample Number | Method | Analyzed | By | Prepped | By | Test Codes |
|---|---|---|---|---|---|---|
| JD54302-1 | Collected: 24-OCT-22 11:15 By: NW | | Received: 25-OCT-22 By: KG | | | |
| WPOST GAC | | | | | | |
| JD54302-1 | SW846 8260D | 28-OCT-22 08:44 | NW | | | V8260TCL42 |
| JD54302-2 | Collected: 24-OCT-22 11:20 By: NW | | Received: 25-OCT-22 By: KG | | | |
| WMID GAC | | | | | | |
| JD54302-2 | SW846 8260D | 29-OCT-22 17:24 | BK | | | V8260TCL42 |
| JD54302-3 | Collected: 24-OCT-22 11:25 By: NW | | Received: 25-OCT-22 By: KG | | | |
| WAS | | | | | | |
| JD54302-3 | SW846 8260D | 29-OCT-22 17:48 | BK | | | V8260TCL42 |
| JD54302-4 | Collected: 24-OCT-22 11:30 By: NW | | Received: 25-OCT-22 By: KG | | | |
| WINF | | | | | | |
| JD54302-4 | SW846 8260D | 28-OCT-22 01:40 | NW | | | V8260TCL42 |
| JD54302-4 | SW846 8260D | 29-OCT-22 12:47 | BK | | | V8260TCL42 |
| JD54302-5 | Collected: 24-OCT-22 11:30 By: NW | | Received: 25-OCT-22 By: KG | | | |
| TRIP BLANK | | | | | | |
| JD54302-5 | SW846 8260D | 28-OCT-22 01:11 | NW | | | V8260TCL42 |

# SGS Internal Chain of Custody



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Received:** 10/25/22

| Sample.Bottle Number | Transfer FROM | Transfer TO | Date/Time | Reason |
|---|---|---|---|---|
| JD54302-1.2 | Nicholas Weigand | GCMS2A | 10/27/22 17:02 | Load on Instrument |
| JD54302-1.2 | GCMS2A | Nicholas Weigand | 10/31/22 17:36 | Unload from Instrument |
| JD54302-1.2 | Nicholas Weigand | Secured Storage | 10/31/22 17:36 | Return to Storage |
| JD54302-2.2 | Nicholas Weigand | GCMS2A | 10/27/22 17:02 | Load on Instrument |
| JD54302-2.2 | GCMS2A | Nicholas Weigand | 10/31/22 17:36 | Unload from Instrument |
| JD54302-2.2 | Nicholas Weigand | Secured Storage | 10/31/22 17:36 | Return to Storage |
| JD54302-3.2 | Nicholas Weigand | GCMS2A | 10/27/22 17:02 | Load on Instrument |
| JD54302-3.2 | GCMS2A | Nicholas Weigand | 10/31/22 17:36 | Unload from Instrument |
| JD54302-3.2 | Nicholas Weigand | Secured Storage | 10/31/22 17:36 | Return to Storage |
| JD54302-4.1 | Secured Storage | Bridget Kelly | 10/29/22 13:32 | Retrieve from Storage |
| JD54302-4.1 | Bridget Kelly | GCMSL | 10/29/22 13:32 | Load on Instrument |
| JD54302-4.1 | GCMSL | Nicole Hornlien | 11/01/22 11:11 | Unload from Instrument |
| JD54302-4.1 | Nicole Hornlien | Secured Storage | 11/01/22 11:11 | Return to Storage |
| JD54302-4.2 | Nicholas Weigand | GCMS2A | 10/27/22 17:02 | Load on Instrument |
| JD54302-4.2 | GCMS2A | Nicholas Weigand | 10/31/22 17:36 | Unload from Instrument |
| JD54302-4.2 | Nicholas Weigand | Secured Storage | 10/31/22 17:36 | Return to Storage |
| JD54302-5.2 | Nicholas Weigand | GCMS2A | 10/27/22 17:02 | Load on Instrument |
| JD54302-5.2 | GCMS2A | Nicholas Weigand | 10/31/22 17:36 | Unload from Instrument |
| JD54302-5.2 | Nicholas Weigand | Secured Storage | 10/31/22 17:36 | Return to Storage |

## MS Volatiles

6

### QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

# Method Blank Summary



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2A9619-MB | 2A221291.D | 1 | 10/28/22 | NW | n/a | n/a | V2A9619 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD54302-1, JD54302-4, JD54302-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |

# Method Blank Summary

**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2A9619-MB | 2A221291.D | 1 | 10/28/22 | NW | n/a | n/a | V2A9619 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD54302-1, JD54302-4, JD54302-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90% | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Method Blank Summary



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VL10552-MB | L348803.D | 1 | 10/29/22 | BK | n/a | n/a | VL10552 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD54302-2, JD54302-3, JD54302-4

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |

# Method Blank Summary

**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VL10552-MB | L348803.D | 1 | 10/29/22 | BK | n/a | n/a | VL10552 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD54302-2, JD54302-3, JD54302-4

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107% | 80-120% |
| 2037-26-5 | Toluene-D8 | 107% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Blank Spike Summary



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2A9619-BS | 2A221289.D | 1 | 10/27/22 | NW | n/a | n/a | V2A9619 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD54302-1, JD54302-4, JD54302-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 200 | 94.7 | 47 | 27-175 |
| 71-43-2 | Benzene | 50 | 43.3 | 87 | 80-115 |
| 75-27-4 | Bromodichloromethane | 50 | 44.8 | 90 | 82-119 |
| 75-25-2 | Bromoform | 50 | 59.1 | 118 | 77-135 |
| 74-83-9 | Bromomethane | 50 | 42.2 | 84 | 40-162 |
| 78-93-3 | 2-Butanone (MEK) | 200 | 152 | 76 | 61-150 |
| 75-15-0 | Carbon disulfide | 50 | 40.0 | 80 | 64-130 |
| 56-23-5 | Carbon tetrachloride | 50 | 45.3 | 91 | 75-127 |
| 108-90-7 | Chlorobenzene | 50 | 47.3 | 95 | 80-115 |
| 75-00-3 | Chloroethane | 50 | 42.7 | 85 | 56-144 |
| 67-66-3 | Chloroform | 50 | 41.5 | 83 | 75-116 |
| 74-87-3 | Chloromethane | 50 | 25.5 | 51 | 41-153 |
| 110-82-7 | Cyclohexane | 50 | 41.6 | 83 | 66-129 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 57.5 | 115 | 69-134 |
| 124-48-1 | Dibromochloromethane | 50 | 54.2 | 108 | 81-123 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 52.1 | 104 | 67-138 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 46.8 | 94 | 81-117 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 45.6 | 91 | 81-115 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 45.7 | 91 | 80-114 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 46.4 | 93 | 43-152 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 41.4 | 83 | 75-125 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 39.0 | 78 | 73-117 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 42.4 | 85 | 70-124 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 43.3 | 87 | 80-120 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 41.9 | 84 | 77-121 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 43.3 | 87 | 79-121 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 42.4 | 85 | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 47.1 | 94 | 83-122 |
| 100-41-4 | Ethylbenzene | 50 | 44.1 | 88 | 78-116 |
| 76-13-1 | Freon 113 | 50 | 43.5 | 87 | 68-134 |
| 591-78-6 | 2-Hexanone | 200 | 169 | 85 | 66-136 |
| 98-82-8 | Isopropylbenzene | 50 | 44.0 | 88 | 78-121 |
| 79-20-9 | Methyl Acetate | 50 | 39.0 | 78 | 60-143 |
| 108-87-2 | Methylcyclohexane | 50 | 40.7 | 81 | 71-123 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 43.5 | 87 | 76-123 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 200 | 179 | 90 | 73-134 |

* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2A9619-BS | 2A221289.D | 1 | 10/27/22 | NW | n/a | n/a | V2A9619 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD54302-1, JD54302-4, JD54302-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | 50 | 42.9 | 86 | 73-123 |
| 100-42-5 | Styrene | 50 | 46.9 | 94 | 81-125 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 47.8 | 96 | 73-126 |
| 127-18-4 | Tetrachloroethene | 50 | 47.9 | 96 | 73-119 |
| 108-88-3 | Toluene | 50 | 46.3 | 93 | 79-116 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 53.3 | 107 | 68-135 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 43.6 | 87 | 76-124 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 49.5 | 99 | 83-117 |
| 79-01-6 | Trichloroethene | 50 | 43.8 | 88 | 80-118 |
| 75-69-4 | Trichlorofluoromethane | 50 | 46.1 | 92 | 67-134 |
| 75-01-4 | Vinyl chloride | 50 | 29.0 | 58 | 52-146 |
| 1330-20-7 | Xylene (total) | 150 | 136 | 91 | 80-119 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87% | 80-120% |
| 2037-26-5 | Toluene-D8 | 102% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 82-114% |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VL10552-BS | L348801.D | 1 | 10/29/22 | BK | n/a | n/a | VL10552 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD54302-2, JD54302-3, JD54302-4

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 200 | 164 | 82 | 27-175 |
| 71-43-2 | Benzene | 50 | 42.7 | 85 | 80-115 |
| 75-27-4 | Bromodichloromethane | 50 | 45.2 | 90 | 82-119 |
| 75-25-2 | Bromoform | 50 | 42.2 | 84 | 77-135 |
| 74-83-9 | Bromomethane | 50 | 60.2 | 120 | 40-162 |
| 78-93-3 | 2-Butanone (MEK) | 200 | 176 | 88 | 61-150 |
| 75-15-0 | Carbon disulfide | 50 | 42.4 | 85 | 64-130 |
| 56-23-5 | Carbon tetrachloride | 50 | 42.4 | 85 | 75-127 |
| 108-90-7 | Chlorobenzene | 50 | 43.8 | 88 | 80-115 |
| 75-00-3 | Chloroethane | 50 | 42.7 | 85 | 56-144 |
| 67-66-3 | Chloroform | 50 | 42.9 | 86 | 75-116 |
| 74-87-3 | Chloromethane | 50 | 42.7 | 85 | 41-153 |
| 110-82-7 | Cyclohexane | 50 | 37.8 | 76 | 66-129 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 46.7 | 93 | 69-134 |
| 124-48-1 | Dibromochloromethane | 50 | 43.3 | 87 | 81-123 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 45.5 | 91 | 67-138 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 45.9 | 92 | 81-117 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 46.6 | 93 | 81-115 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 45.6 | 91 | 80-114 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 42.0 | 84 | 43-152 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 44.9 | 90 | 75-125 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 45.8 | 92 | 73-117 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 44.3 | 89 | 70-124 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 43.4 | 87 | 80-120 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 43.8 | 88 | 77-121 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 43.3 | 87 | 79-121 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 45.2 | 90 | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 43.8 | 88 | 83-122 |
| 100-41-4 | Ethylbenzene | 50 | 40.3 | 81 | 78-116 |
| 76-13-1 | Freon 113 | 50 | 45.4 | 91 | 68-134 |
| 591-78-6 | 2-Hexanone | 200 | 164 | 82 | 66-136 |
| 98-82-8 | Isopropylbenzene | 50 | 42.5 | 85 | 78-121 |
| 79-20-9 | Methyl Acetate | 50 | 46.5 | 93 | 60-143 |
| 108-87-2 | Methylcyclohexane | 50 | 43.6 | 87 | 71-123 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 48.3 | 97 | 76-123 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 200 | 176 | 88 | 73-134 |

* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VL10552-BS | L348801.D | 1 | 10/29/22 | BK | n/a | n/a | VL10552 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD54302-2, JD54302-3, JD54302-4

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | 50 | 45.1 | 90 | 73-123 |
| 100-42-5 | Styrene | 50 | 42.4 | 85 | 81-125 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 46.6 | 93 | 73-126 |
| 127-18-4 | Tetrachloroethene | 50 | 42.9 | 86 | 73-119 |
| 108-88-3 | Toluene | 50 | 41.8 | 84 | 79-116 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 52.4 | 105 | 68-135 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 43.8 | 88 | 76-124 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 45.6 | 91 | 83-117 |
| 79-01-6 | Trichloroethene | 50 | 44.8 | 90 | 80-118 |
| 75-69-4 | Trichlorofluoromethane | 50 | 44.9 | 90 | 67-134 |
| 75-01-4 | Vinyl chloride | 50 | 42.5 | 85 | 52-146 |
| 1330-20-7 | Xylene (total) | 150 | 126 | 84 | 80-119 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | 80-120% |
| 2037-26-5 | Toluene-D8 | 95% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 103% | 82-114% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD54302-4MS | 2A221296.D | 10 | 10/28/22 | NW | n/a | n/a | V2A9619 |
| JD54302-4MSD | 2A221297.D | 10 | 10/28/22 | NW | n/a | n/a | V2A9619 |
| JD54302-4 | 2A221293.D | 10 | 10/28/22 | NW | n/a | n/a | V2A9619 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD54302-1, JD54302-4, JD54302-5

| CAS No. | Compound | JD54302-4 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 2000 | 826 | 41 | 2000 | 821 | 41 | 1 | 22-134/19 |
| 71-43-2 | Benzene | ND | | 500 | 395 | 79 | 500 | 404 | 81 | 2 | 49-137/12 |
| 75-27-4 | Bromodichloromethane | ND | | 500 | 425 | 85 | 500 | 429 | 86 | 1 | 76-121/12 |
| 75-25-2 | Bromoform | ND | | 500 | 568 | 114 | 500 | 592 | 118 | 4 | 70-133/13 |
| 74-83-9 | Bromomethane | ND | | 500 | 385 | 77 | 500 | 385 | 77 | 0 | 27-164/38 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 2000 | 1460 | 73 | 2000 | 1480 | 74 | 1 | 52-137/17 |
| 75-15-0 | Carbon disulfide | ND | | 500 | 354 | 71 | 500 | 358 | 72 | 1 | 54-136/16 |
| 56-23-5 | Carbon tetrachloride | ND | | 500 | 416 | 83 | 500 | 414 | 83 | 0 | 70-132/13 |
| 108-90-7 | Chlorobenzene | ND | | 500 | 449 | 90 | 500 | 462 | 92 | 3 | 68-123/12 |
| 75-00-3 | Chloroethane | ND | | 500 | 398 | 80 | 500 | 401 | 80 | 1 | 48-152/17 |
| 67-66-3 | Chloroform | ND | | 500 | 386 | 77 | 500 | 382 | 76 | 1 | 68-120/13 |
| 74-87-3 | Chloromethane | ND | | 500 | 233 | 47 | 500 | 226 | 45 | 3 | 35-156/18 |
| 110-82-7 | Cyclohexane | ND | | 500 | 395 | 79 | 500 | 392 | 78 | 1 | 53-146/14 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 500 | 565 | 113 | 500 | 586 | 117 | 4 | 63-134/16 |
| 124-48-1 | Dibromochloromethane | ND | | 500 | 527 | 105 | 500 | 539 | 108 | 2 | 75-122/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 500 | 491 | 98 | 500 | 507 | 101 | 3 | 63-134/12 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 500 | 456 | 91 | 500 | 465 | 93 | 2 | 74-119/12 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 500 | 436 | 87 | 500 | 449 | 90 | 3 | 75-117/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 500 | 438 | 88 | 500 | 445 | 89 | 2 | 72-117/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 500 | 441 | 88 | 500 | 434 | 87 | 2 | 34-163/16 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 500 | 377 | 75 | 500 | 375 | 75 | 1 | 68-129/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 500 | 364 | 73 | 500 | 363 | 73 | 0 | 66-120/13 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 500 | 372 | 74 | 500 | 378 | 76 | 2 | 59-133/15 |
| 156-59-2 | cis-1,2-Dichloroethene | 735 | | 500 | 1030 | 206* [a] | 500 | 1020 | 204* [a] | 1 | 52-140/12 |
| 156-60-5 | trans-1,2-Dichloroethene | 9.7 | J | 500 | 380 | 76 | 500 | 388 | 78 | 2 | 70-125/13 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 500 | 405 | 81 | 500 | 412 | 82 | 2 | 73-124/12 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 500 | 409 | 82 | 500 | 413 | 83 | 1 | 75-125/13 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 500 | 442 | 88 | 500 | 451 | 90 | 2 | 75-122/12 |
| 100-41-4 | Ethylbenzene | ND | | 500 | 410 | 82 | 500 | 426 | 85 | 4 | 37-144/12 |
| 76-13-1 | Freon 113 | ND | | 500 | 391 | 78 | 500 | 395 | 79 | 1 | 61-142/14 |
| 591-78-6 | 2-Hexanone | ND | | 2000 | 1680 | 84 | 2000 | 1720 | 86 | 2 | 56-132/16 |
| 98-82-8 | Isopropylbenzene | ND | | 500 | 417 | 83 | 500 | 429 | 86 | 3 | 71-126/13 |
| 79-20-9 | Methyl Acetate | ND | | 500 | 357 | 71 | 500 | 353 | 71 | 1 | 51-139/18 |
| 108-87-2 | Methylcyclohexane | ND | | 500 | 361 | 72 | 500 | 373 | 75 | 3 | 59-137/16 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 500 | 405 | 81 | 500 | 405 | 81 | 0 | 66-124/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 2000 | 1770 | 89 | 2000 | 1780 | 89 | 1 | 65-135/14 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD54302-4MS | 2A221296.D | 10 | 10/28/22 | NW | n/a | n/a | V2A9619 |
| JD54302-4MSD | 2A221297.D | 10 | 10/28/22 | NW | n/a | n/a | V2A9619 |
| JD54302-4 | 2A221293.D | 10 | 10/28/22 | NW | n/a | n/a | V2A9619 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD54302-1, JD54302-4, JD54302-5

| CAS No. | Compound | JD54302-4 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | | 500 | 399 | 80 | 500 | 399 | 80 | 0 | 66-125/14 |
| 100-42-5 | Styrene | ND | | 500 | 447 | 89 | 500 | 462 | 92 | 3 | 71-133/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 500 | 470 | 94 | 500 | 490 | 98 | 4 | 68-127/14 |
| 127-18-4 | Tetrachloroethene | ND | | 500 | 435 | 87 | 500 | 458 | 92 | 5 | 58-132/13 |
| 108-88-3 | Toluene | ND | | 500 | 430 | 86 | 500 | 442 | 88 | 3 | 46-139/12 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 500 | 504 | 101 | 500 | 529 | 106 | 5 | 61-137/16 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 500 | 397 | 79 | 500 | 397 | 79 | 0 | 67-132/13 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 500 | 475 | 95 | 500 | 488 | 98 | 3 | 75-120/12 |
| 79-01-6 | Trichloroethene | 421 | | 500 | 746 | 149* [a] | 500 | 751 | 150* [a] | 1 | 56-136/12 |
| 75-69-4 | Trichlorofluoromethane | ND | | 500 | 430 | 86 | 500 | 433 | 87 | 1 | 61-145/16 |
| 75-01-4 | Vinyl chloride | ND | | 500 | 267 | 53 | 500 | 266 | 53 | 0 | 41-156/16 |
| 1330-20-7 | Xylene (total) | ND | | 1500 | 1280 | 85 | 1500 | 1310 | 87 | 2 | 38-147/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JD54302-4 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | 97% | 98% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 86% | 86% | 91% | 80-120% |
| 2037-26-5 | Toluene-D8 | 101% | 101% | 99% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 95% | 96% | 82-114% |

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD54108-4MS | L348811.D | 50 | 10/29/22 | BK | n/a | n/a | VL10552 |
| JD54108-4MSD | L348812.D | 50 | 10/29/22 | BK | n/a | n/a | VL10552 |
| JD54108-4 [a] | L348809.D | 50 | 10/29/22 | BK | n/a | n/a | VL10552 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD54302-2, JD54302-3, JD54302-4

| CAS No. | Compound | JD54108-4 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 10000 | 7010 | 70 | 10000 | 7170 | 72 | 2 | 22-134/19 |
| 71-43-2 | Benzene | 62.0 | | 2500 | 2300 | 90 | 2500 | 2260 | 88 | 2 | 49-137/12 |
| 75-27-4 | Bromodichloromethane | ND | | 2500 | 2430 | 97 | 2500 | 2380 | 95 | 2 | 76-121/12 |
| 75-25-2 | Bromoform | ND | | 2500 | 2240 | 90 | 2500 | 2260 | 90 | 1 | 70-133/13 |
| 74-83-9 | Bromomethane | ND | | 2500 | 2340 | 94 | 2500 | 2260 | 90 | 3 | 27-164/38 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 10000 | 8620 | 86 | 10000 | 9090 | 91 | 5 | 52-137/17 |
| 75-15-0 | Carbon disulfide | ND | | 2500 | 2030 | 81 | 2500 | 1950 | 78 | 4 | 54-136/16 |
| 56-23-5 | Carbon tetrachloride | ND | | 2500 | 2270 | 91 | 2500 | 2210 | 88 | 3 | 70-132/13 |
| 108-90-7 | Chlorobenzene | ND | | 2500 | 2420 | 97 | 2500 | 2390 | 96 | 1 | 68-123/12 |
| 75-00-3 | Chloroethane | ND | | 2500 | 1700 | 68 | 2500 | 1620 | 65 | 5 | 48-152/17 |
| 67-66-3 | Chloroform | ND | | 2500 | 2310 | 92 | 2500 | 2260 | 90 | 2 | 68-120/13 |
| 74-87-3 | Chloromethane | ND | | 2500 | 1490 | 60 | 2500 | 1410 | 56 | 6 | 35-156/18 |
| 110-82-7 | Cyclohexane | ND | | 2500 | 1550 | 62 | 2500 | 1480 | 59 | 5 | 53-146/14 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 2500 | 2360 | 94 | 2500 | 2490 | 100 | 5 | 63-134/16 |
| 124-48-1 | Dibromochloromethane | ND | | 2500 | 2380 | 95 | 2500 | 2350 | 94 | 1 | 75-122/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 2500 | 2450 | 98 | 2500 | 2450 | 98 | 0 | 63-134/12 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 2500 | 2390 | 96 | 2500 | 2450 | 98 | 2 | 74-119/12 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 2500 | 2430 | 97 | 2500 | 2480 | 99 | 2 | 75-117/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 2500 | 2380 | 95 | 2500 | 2400 | 96 | 1 | 72-117/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 2500 | 1670 | 67 | 2500 | 1600 | 64 | 4 | 34-163/16 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 2500 | 2370 | 95 | 2500 | 2270 | 91 | 4 | 68-129/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 2500 | 2420 | 97 | 2500 | 2400 | 96 | 1 | 66-120/13 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 2500 | 2240 | 90 | 2500 | 2100 | 84 | 6 | 59-133/15 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 2500 | 2300 | 92 | 2500 | 2250 | 90 | 2 | 52-140/12 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 2500 | 2250 | 90 | 2500 | 2150 | 86 | 5 | 70-125/13 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 2500 | 2370 | 95 | 2500 | 2360 | 94 | 0 | 73-124/12 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 2500 | 2470 | 99 | 2500 | 2450 | 98 | 1 | 75-125/13 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 2500 | 2410 | 96 | 2500 | 2420 | 97 | 0 | 75-122/12 |
| 100-41-4 | Ethylbenzene | 190 | | 2500 | 2340 | 86 | 2500 | 2290 | 84 | 2 | 37-144/12 |
| 76-13-1 | Freon 113 | ND | | 2500 | 2250 | 90 | 2500 | 2160 | 86 | 4 | 61-142/14 |
| 591-78-6 | 2-Hexanone | ND | | 10000 | 8740 | 87 | 10000 | 9000 | 90 | 3 | 56-132/16 |
| 98-82-8 | Isopropylbenzene | ND | | 2500 | 2380 | 95 | 2500 | 2320 | 93 | 3 | 71-126/13 |
| 79-20-9 | Methyl Acetate | ND | | 2500 | 2240 | 90 | 2500 | 2400 | 96 | 7 | 51-139/18 |
| 108-87-2 | Methylcyclohexane | ND | | 2500 | 2320 | 93 | 2500 | 2210 | 88 | 5 | 59-137/16 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 2500 | 2420 | 97 | 2500 | 2400 | 96 | 1 | 66-124/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 10000 | 9430 | 94 | 10000 | 9630 | 96 | 2 | 65-135/14 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD54108-4MS | L348811.D | 50 | 10/29/22 | BK | n/a | n/a | VL10552 |
| JD54108-4MSD | L348812.D | 50 | 10/29/22 | BK | n/a | n/a | VL10552 |
| JD54108-4 [a] | L348809.D | 50 | 10/29/22 | BK | n/a | n/a | VL10552 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD54302-2, JD54302-3, JD54302-4

| CAS No. | Compound | JD54108-4 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | | 2500 | 2350 | 94 | 2500 | 2290 | 92 | 3 | 66-125/14 |
| 100-42-5 | Styrene | 33.1 | J | 2500 | 2340 | 92 | 2500 | 2310 | 91 | 1 | 71-133/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 2500 | 2430 | 97 | 2500 | 2520 | 101 | 4 | 68-127/14 |
| 127-18-4 | Tetrachloroethene | ND | | 2500 | 2420 | 97 | 2500 | 2350 | 94 | 3 | 58-132/13 |
| 108-88-3 | Toluene | 224 | | 2500 | 2430 | 88 | 2500 | 2390 | 87 | 2 | 46-139/12 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 2500 | 2740 | 110 | 2500 | 2770 | 111 | 1 | 61-137/16 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 2500 | 2290 | 92 | 2500 | 2240 | 90 | 2 | 67-132/13 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 2500 | 2440 | 98 | 2500 | 2430 | 97 | 0 | 75-120/12 |
| 79-01-6 | Trichloroethene | ND | | 2500 | 2410 | 96 | 2500 | 2300 | 92 | 5 | 56-136/12 |
| 75-69-4 | Trichlorofluoromethane | ND | | 2500 | 1980 | 79 | 2500 | 1930 | 77 | 3 | 61-145/16 |
| 75-01-4 | Vinyl chloride | ND | | 2500 | 1590 | 64 | 2500 | 1520 | 61 | 5 | 41-156/16 |
| 1330-20-7 | Xylene (total) | 570 | | 7500 | 7300 | 90 | 7500 | 7160 | 88 | 2 | 38-147/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JD54108-4 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 99% | 96% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | 100% | 109% | 80-120% |
| 2037-26-5 | Toluene-D8 | 95% | 96% | 104% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 104% | 102% | 82-114% |

(a) Sample analyzed outside the holding time. Dilution required due to high concentration of non target compound.

* = Outside of Control Limits.

# Instrument Performance Check (BFB)



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2A9596-BFB
**Lab File ID:** 2A220735.D
**Instrument ID:** GCMS2A
**Injection Date:** 10/13/22
**Injection Time:** 17:42

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 53573 | 22.3 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 110642 | 46.0 | | Pass |
| 95 | Base peak, 100% relative abundance | 240298 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 15575 | 6.48 | | Pass |
| 173 | Less than 2.0% of mass 174 | 1954 | 0.81 | (0.92) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 211797 | 88.1 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 15782 | 6.57 | (7.45) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 210837 | 87.7 | (99.5) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 14168 | 5.90 | (6.72) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2A9596-IC9596 | 2A220736.D | 10/13/22 | 18:18 | 00:36 | Initial cal 0.2 |
| V2A9596-IC9596 | 2A220737.D | 10/13/22 | 18:37 | 00:55 | Initial cal 0.5 |
| V2A9596-IC9596 | 2A220738.D | 10/13/22 | 19:06 | 01:24 | Initial cal 1 |
| V2A9596-IC9596 | 2A220739.D | 10/13/22 | 19:34 | 01:52 | Initial cal 2 |
| V2A9596-IC9596 | 2A220740.D | 10/13/22 | 20:03 | 02:21 | Initial cal 4 |
| V2A9596-IC9596 | 2A220741.D | 10/13/22 | 20:32 | 02:50 | Initial cal 8 |
| V2A9596-IC9596 | 2A220742.D | 10/13/22 | 21:02 | 03:20 | Initial cal 20 |
| V2A9596-ICC9596 | 2A220743.D | 10/13/22 | 21:30 | 03:48 | Initial cal 50 |
| V2A9596-IC9596 | 2A220744.D | 10/13/22 | 22:00 | 04:18 | Initial cal 100 |
| V2A9596-IC9596 | 2A220745.D | 10/13/22 | 22:28 | 04:46 | Initial cal 200 |
| V2A9596-ICV9596 | 2A220748.D | 10/13/22 | 23:54 | 06:12 | Initial cal verification 50 |
| V2A9596-ICV9596 | 2A220749.D | 10/14/22 | 00:22 | 06:40 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2A9619-BFB
**Lab File ID:** 2A221287.D
**Instrument ID:** GCMS2A
**Injection Date:** 10/27/22
**Injection Time:** 22:49

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 36341 | 17.0 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 94723 | 44.2 | | Pass |
| 95 | Base peak, 100% relative abundance | 214251 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 14024 | 6.55 | | Pass |
| 173 | Less than 2.0% of mass 174 | 628 | 0.29 | (0.29) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 213035 | 99.4 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 15475 | 7.22 | (7.26) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 210667 | 98.3 | (98.9) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 13250 | 6.18 | (6.29) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2A9619-CC9596 | 2A221287.D | 10/27/22 | 22:49 | 00:00 | Continuing cal 50 |
| V2A9619-BS | 2A221289.D | 10/27/22 | 23:46 | 00:57 | Blank Spike |
| V2A9619-MB | 2A221291.D | 10/28/22 | 00:43 | 01:54 | Method Blank |
| JD54302-5 | 2A221292.D | 10/28/22 | 01:11 | 02:22 | TRIP BLANK |
| JD54302-4 | 2A221293.D | 10/28/22 | 01:40 | 02:51 | WINF |
| ZZZZZZ | 2A221294.D | 10/28/22 | 02:08 | 03:19 | (unrelated sample) |
| ZZZZZZ | 2A221295.D | 10/28/22 | 02:37 | 03:48 | (unrelated sample) |
| JD54302-4MS | 2A221296.D | 10/28/22 | 03:05 | 04:16 | Matrix Spike |
| JD54302-4MSD | 2A221297.D | 10/28/22 | 03:33 | 04:44 | Matrix Spike Duplicate |
| ZZZZZZ | 2A221299.D | 10/28/22 | 04:30 | 05:41 | (unrelated sample) |
| ZZZZZZ | 2A221300.D | 10/28/22 | 04:58 | 06:09 | (unrelated sample) |
| ZZZZZZ | 2A221303.D | 10/28/22 | 06:23 | 07:34 | (unrelated sample) |
| ZZZZZZ | 2A221306.D | 10/28/22 | 07:48 | 08:59 | (unrelated sample) |
| ZZZZZZ | 2A221307.D | 10/28/22 | 08:16 | 09:27 | (unrelated sample) |
| JD54302-1 | 2A221308.D | 10/28/22 | 08:44 | 09:55 | WPOST GAC |

# Instrument Performance Check (BFB)



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** VL10548-BFB
**Lab File ID:** L348707.D
**Instrument ID:** GCMSL
**Injection Date:** 10/27/22
**Injection Time:** 01:23

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 15976 | 17.9 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 43467 | 48.6 | | Pass |
| 95 | Base peak, 100% relative abundance | 89389 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 6041 | 6.76 | | Pass |
| 173 | Less than 2.0% of mass 174 | 262 | 0.29 | (0.36) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 72101 | 80.7 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 5774 | 6.46 | (8.01) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 69016 | 77.2 | (95.7) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 4622 | 5.17 | (6.70) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VL10548-IC10548 | L348708.D | 10/27/22 | 01:55 | 00:32 | Initial cal 0.2 |
| VL10548-IC10548 | L348709.D | 10/27/22 | 02:18 | 00:55 | Initial cal 0.5 |
| VL10548-IC10548 | L348710.D | 10/27/22 | 02:41 | 01:18 | Initial cal 1 |
| VL10548-IC10548 | L348711.D | 10/27/22 | 03:04 | 01:41 | Initial cal 2 |
| VL10548-IC10548 | L348712.D | 10/27/22 | 03:27 | 02:04 | Initial cal 4 |
| VL10548-IC10548 | L348713.D | 10/27/22 | 03:50 | 02:27 | Initial cal 8 |
| VL10548-IC10548 | L348714.D | 10/27/22 | 04:14 | 02:51 | Initial cal 20 |
| VL10548-ICC10548 | L348715.D | 10/27/22 | 04:37 | 03:14 | Initial cal 50 |
| VL10548-IC10548 | L348716.D | 10/27/22 | 05:00 | 03:37 | Initial cal 100 |
| VL10548-IC10548 | L348717.D | 10/27/22 | 05:23 | 04:00 | Initial cal 200 |
| VL10548-ICV10548 | L348720.D | 10/27/22 | 06:33 | 05:10 | Initial cal verification 50 |
| VL10548-ICV10548 | L348721.D | 10/27/22 | 06:56 | 05:33 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** VL10552-BFB
**Lab File ID:** L348799.D
**Instrument ID:** GCMSL
**Injection Date:** 10/29/22
**Injection Time:** 10:33

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 14503 | 16.4 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 42040 | 47.5 | | Pass |
| 95 | Base peak, 100% relative abundance | 88509 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 5804 | 6.56 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 67835 | 76.6 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 5932 | 6.70 | (8.74) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 67064 | 75.8 | (98.9) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 4290 | 4.85 | (6.40) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VL10552-CC10548 | L348799.D | 10/29/22 | 10:33 | 00:00 | Continuing cal 20 |
| VL10552-BS | L348801.D | 10/29/22 | 11:38 | 01:05 | Blank Spike |
| VL10552-MB | L348803.D | 10/29/22 | 12:24 | 01:51 | Method Blank |
| JD54302-4 | L348804.D | 10/29/22 | 12:47 | 02:14 | WINF |
| ZZZZZZ | L348805.D | 10/29/22 | 13:10 | 02:37 | (unrelated sample) |
| ZZZZZZ | L348806.D | 10/29/22 | 13:33 | 03:00 | (unrelated sample) |
| ZZZZZZ | L348807.D | 10/29/22 | 13:57 | 03:24 | (unrelated sample) |
| ZZZZZZ | L348808.D | 10/29/22 | 14:20 | 03:47 | (unrelated sample) |
| JD54108-4 | L348809.D | 10/29/22 | 14:43 | 04:10 | (used for QC only; not part of job JD54302) |
| ZZZZZZ | L348810.D | 10/29/22 | 15:06 | 04:33 | (unrelated sample) |
| JD54108-4MS | L348811.D | 10/29/22 | 15:29 | 04:56 | Matrix Spike |
| JD54108-4MSD | L348812.D | 10/29/22 | 15:52 | 05:19 | Matrix Spike Duplicate |
| ZZZZZZ | L348814.D | 10/29/22 | 16:38 | 06:05 | (unrelated sample) |
| ZZZZZZ | L348815.D | 10/29/22 | 17:01 | 06:28 | (unrelated sample) |
| JD54302-2 | L348816.D | 10/29/22 | 17:24 | 06:51 | WMID GAC |
| JD54302-3 | L348817.D | 10/29/22 | 17:48 | 07:15 | WAS |
| ZZZZZZ | L348818.D | 10/29/22 | 18:11 | 07:38 | (unrelated sample) |
| ZZZZZZ | L348819.D | 10/29/22 | 18:34 | 08:01 | (unrelated sample) |
| ZZZZZZ | L348820.D | 10/29/22 | 18:57 | 08:24 | (unrelated sample) |
| ZZZZZZ | L348821.D | 10/29/22 | 19:20 | 08:47 | (unrelated sample) |
| ZZZZZZ | L348822.D | 10/29/22 | 19:43 | 09:10 | (unrelated sample) |
| ZZZZZZ | L348823.D | 10/29/22 | 20:06 | 09:33 | (unrelated sample) |
| ZZZZZZ | L348824.D | 10/29/22 | 20:29 | 09:56 | (unrelated sample) |
| ZZZZZZ | L348825.D | 10/29/22 | 20:52 | 10:19 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Sample:** | VL10552-BFB | **Injection Date:** | 10/29/22 |
| **Lab File ID:** | L348799.D | **Injection Time:** | 10:33 |
| **Instrument ID:** | GCMSL | | |

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| ZZZZZZ | L348826.D | 10/29/22 | 21:15 | 10:42 | (unrelated sample) |
| ZZZZZZ | L348827.D | 10/29/22 | 21:39 | 11:06 | (unrelated sample) |
| ZZZZZZ | L348828.D | 10/29/22 | 22:02 | 11:29 | (unrelated sample) |
| ZZZZZZ | L348829.D | 10/29/22 | 22:25 | 11:52 | (unrelated sample) |

# Internal Standard Area Summary



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V2A9619-CC9596 | **Injection Date:** | 10/27/22 |
| **Lab File ID:** | 2A221287.D | **Injection Time:** | 22:49 |
| **Instrument ID:** | GCMS2A | **Method:** | SW846 8260D |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| Check Std | 323515 | 7.25 | 662808 | 9.51 | 900072 | 10.43 | 731213 | 13.56 | 377292 | 15.89 |
| Upper Limit [a] | 647030 | 7.75 | 1325616 | 10.01 | 1800144 | 10.93 | 1462426 | 14.06 | 754584 | 16.39 |
| Lower Limit [b] | 161758 | 6.75 | 331404 | 9.01 | 450036 | 9.93 | 365607 | 13.06 | 188646 | 15.39 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| V2A9619-BS | 339350 | 7.25 | 690717 | 9.51 | 931670 | 10.43 | 743342 | 13.56 | 388243 | 15.89 |
| V2A9619-MB | 338300 | 7.24 | 695700 | 9.51 | 944877 | 10.43 | 772631 | 13.56 | 391363 | 15.89 |
| JD54302-5 | 329182 | 7.24 | 680983 | 9.51 | 922186 | 10.43 | 758005 | 13.56 | 376768 | 15.89 |
| JD54302-4 | 330645 | 7.24 | 662211 | 9.51 | 900265 | 10.43 | 739043 | 13.56 | 372515 | 15.89 |
| ZZZZZZ | 315270 | 7.25 | 644275 | 9.51 | 872829 | 10.43 | 708412 | 13.56 | 369291 | 15.89 |
| ZZZZZZ | 341577 | 7.24 | 692101 | 9.51 | 930962 | 10.43 | 761850 | 13.56 | 394099 | 15.89 |
| JD54302-4MS | 336992 | 7.25 | 692668 | 9.51 | 939455 | 10.43 | 757568 | 13.56 | 391814 | 15.89 |
| JD54302-4MSD | 352105 | 7.24 | 722243 | 9.51 | 968078 | 10.43 | 771344 | 13.56 | 397974 | 15.89 |
| ZZZZZZ | 307607 | 7.24 | 738365 | 9.51 | 990225 | 10.43 | 816299 | 13.56 | 409514 | 15.89 |
| ZZZZZZ | 346287 | 7.25 | 727331 | 9.51 | 978360 | 10.43 | 804734 | 13.56 | 401809 | 15.89 |
| ZZZZZZ | 373243 | 7.24 | 752234 | 9.51 | 1008516 | 10.43 | 828222 | 13.56 | 418668 | 15.89 |
| ZZZZZZ | 378631 | 7.25 | 797388 | 9.51 | 1068843 | 10.43 | 887910 | 13.56 | 452133 | 15.89 |
| ZZZZZZ | 378940 | 7.25 | 794948 | 9.51 | 1060502 | 10.43 | 867752 | 13.56 | 440191 | 15.89 |
| JD54302-1 | 365080 | 7.24 | 769186 | 9.51 | 1031346 | 10.43 | 851185 | 13.56 | 430013 | 15.89 |

**IS 1** = Tert Butyl Alcohol-D9
**IS 2** = Pentafluorobenzene
**IS 3** = 1,4-Difluorobenzene
**IS 4** = Chlorobenzene-D5
**IS 5** = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

# Internal Standard Area Summary



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | VL10552-CC10548 | **Injection Date:** | 10/29/22 |
| **Lab File ID:** | L348799.D | **Injection Time:** | 10:33 |
| **Instrument ID:** | GCMSL | **Method:** | SW846 8260D |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| Check Std | 246849 | 3.06 | 242496 | 4.28 | 334022 | 4.85 | 312296 | 7.24 | 126617 | 9.43 |
| Upper Limit [a] | 493698 | 3.56 | 484992 | 4.78 | 668044 | 5.35 | 624592 | 7.74 | 253234 | 9.93 |
| Lower Limit [b] | 123425 | 2.56 | 121248 | 3.78 | 167011 | 4.35 | 156148 | 6.74 | 63309 | 8.93 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| VL10552-BS | 227484 | 3.07 | 232878 | 4.28 | 328511 | 4.85 | 313175 | 7.24 | 123919 | 9.43 |
| VL10552-MB | 274853 | 3.07 | 274165 | 4.29 | 371986 | 4.85 | 326352 | 7.24 | 140271 | 9.43 |
| JD54302-4 | 272742 | 3.06 | 235596 | 4.28 | 344342 | 4.85 | 312282 | 7.24 | 138323 | 9.43 |
| ZZZZZZ | 278356 | 3.06 | 266104 | 4.28 | 359642 | 4.85 | 320074 | 7.24 | 141419 | 9.43 |
| ZZZZZZ | 285171 | 3.06 | 252472 | 4.28 | 354421 | 4.85 | 303700 | 7.24 | 139867 | 9.43 |
| ZZZZZZ | 275507 | 3.06 | 267411 | 4.28 | 366405 | 4.85 | 321152 | 7.24 | 142072 | 9.43 |
| ZZZZZZ | 275688 | 3.06 | 268426 | 4.28 | 368578 | 4.84 | 322318 | 7.24 | 138462 | 9.43 |
| JD54108-4 | 269924 | 3.06 | 262049 | 4.28 | 357488 | 4.85 | 321650 | 7.24 | 134099 | 9.43 |
| ZZZZZZ | 291113 | 3.06 | 264213 | 4.28 | 365486 | 4.85 | 321059 | 7.24 | 136364 | 9.43 |
| JD54108-4MS | 226681 | 3.06 | 219235 | 4.28 | 312116 | 4.85 | 298775 | 7.24 | 121679 | 9.43 |
| JD54108-4MSD | 240780 | 3.07 | 221872 | 4.28 | 316921 | 4.85 | 303090 | 7.24 | 119648 | 9.43 |
| ZZZZZZ | 286054 | 3.06 | 267636 | 4.28 | 362951 | 4.85 | 330400 | 7.24 | 144588 | 9.43 |
| ZZZZZZ | 261680 | 3.06 | 260780 | 4.28 | 366061 | 4.85 | 324258 | 7.24 | 140942 | 9.43 |
| JD54302-2 | 290742 | 3.07 | 271794 | 4.28 | 376162 | 4.85 | 330864 | 7.24 | 146132 | 9.43 |
| JD54302-3 | 286526 | 3.06 | 267608 | 4.28 | 368037 | 4.85 | 334322 | 7.24 | 143706 | 9.43 |
| ZZZZZZ | 279545 | 3.06 | 267904 | 4.28 | 374893 | 4.85 | 334166 | 7.24 | 146296 | 9.43 |
| ZZZZZZ | 249422 | 3.06 | 251557 | 4.28 | 341292 | 4.85 | 299117 | 7.24 | 133639 | 9.43 |
| ZZZZZZ | 275908 | 3.06 | 262252 | 4.29 | 363809 | 4.85 | 321517 | 7.24 | 142010 | 9.43 |
| ZZZZZZ | 268564 | 3.06 | 230406 | 4.28 | 324905 | 4.85 | 311728 | 7.24 | 132301 | 9.43 |
| ZZZZZZ | 264908 | 3.06 | 253310 | 4.28 | 350420 | 4.85 | 311702 | 7.24 | 137116 | 9.43 |
| ZZZZZZ | 260850 | 3.06 | 242716 | 4.28 | 336805 | 4.85 | 299240 | 7.24 | 135937 | 9.43 |
| ZZZZZZ | 255872 | 3.06 | 269092 | 4.28 | 368817 | 4.85 | 327090 | 7.24 | 140848 | 9.43 |
| ZZZZZZ | 266993 | 3.06 | 261680 | 4.28 | 349655 | 4.85 | 319475 | 7.24 | 140390 | 9.43 |
| ZZZZZZ | 254044 | 3.06 | 264819 | 4.28 | 364496 | 4.85 | 318495 | 7.24 | 138078 | 9.43 |
| ZZZZZZ | 244535 | 3.06 | 257048 | 4.28 | 357812 | 4.85 | 314211 | 7.24 | 134943 | 9.43 |
| ZZZZZZ | 260000 | 3.06 | 260642 | 4.28 | 364932 | 4.85 | 328795 | 7.24 | 140806 | 9.43 |
| ZZZZZZ | 235608 | 3.06 | 240035 | 4.28 | 353602 | 4.85 | 317816 | 7.24 | 137580 | 9.43 |

**IS 1** = Tert Butyl Alcohol-D9
**IS 2** = Pentafluorobenzene
**IS 3** = 1,4-Difluorobenzene
**IS 4** = Chlorobenzene-D5
**IS 5** = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

# Internal Standard Area Summary



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | VL10552-CC10548 | **Injection Date:** | 10/29/22 |
| **Lab File ID:** | L348799.D | **Injection Time:** | 10:33 |
| **Instrument ID:** | GCMSL | **Method:** | SW846 8260D |

| Lab Sample ID | IS 1 AREA | IS 1 RT | IS 2 AREA | IS 2 RT | IS 3 AREA | IS 3 RT | IS 4 AREA | IS 4 RT | IS 5 AREA | IS 5 RT |
|---|---|---|---|---|---|---|---|---|---|---|

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

# Surrogate Recovery Summary



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Method:** SW846 8260D **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| JD54302-1 | 2A221308.D | 95 | 86 | 99 | 95 |
| JD54302-2 | L348816.D | 97 | 110 | 105 | 99 |
| JD54302-3 | L348817.D | 100 | 108 | 104 | 99 |
| JD54302-4 | L348804.D | 100 | 107 | 103 | 98 |
| JD54302-4 | 2A221293.D | 98 | 91 | 99 | 96 |
| JD54302-5 | 2A221292.D | 99 | 90 | 99 | 97 |
| JD54108-4MS | L348811.D | 99 | 100 | 95 | 101 |
| JD54108-4MSD | L348812.D | 99 | 100 | 96 | 104 |
| JD54302-4MS | 2A221296.D | 98 | 86 | 101 | 94 |
| JD54302-4MSD | 2A221297.D | 97 | 86 | 101 | 95 |
| V2A9619-BS | 2A221289.D | 98 | 87 | 102 | 94 |
| V2A9619-MB | 2A221291.D | 97 | 90 | 100 | 95 |
| VL10552-BS | L348801.D | 98 | 100 | 95 | 103 |
| VL10552-MB | L348803.D | 98 | 107 | 107 | 100 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 80-120% |
| **S2** = 1,2-Dichloroethane-D4 | 80-120% |
| **S3** = Toluene-D8 | 80-120% |
| **S4** = 4-Bromofluorobenzene | 82-114% |

# Initial Calibration Summary



**Job Number:** JD54302 **Sample:** V2A9596-ICC9596
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220743.D
**Project:** EPT, Ithaca, NY

Response Factor Report GCMS2A

Method : C:\MSDCHEM\1\METHODS\M2A9596.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
Last Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

Calibration Files
4 =2A220740.D 8 =2A220741.D 0.5 =2A220737.D 50 =2A220743.D
100 =2A220744.D 1 =2A220738.D 200 =2A220745.D 20 =2A220742.D
2 =2A220739.D 0.2 =2A220736.D = =

| Compound | 4 | 8 | 0.5 | 50 | 100 | 1 | 200 | 20 | 2 | 0.2 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) I tert butyl alcohol-d9 | ----------ISTD---------- | | | | | | | | | | | |
| 2) ethanol | 0.102 | 0.095 | 0.087 | 0.098 | 0.111 | 0.096 | 0.120 | 0.094 | 0.104 | | 0.101 | 9.93 |
| 3) tertiary butyl alcohol | 1.324 | 1.221 | | 1.248 | 1.328 | 1.207 | 1.293 | 1.191 | 1.429 | | 1.280 | 6.22 |
| 4) 1,4-dioxane | 0.071 | 0.075 | | 0.078 | 0.084 | | 0.083 | 0.074 | 0.058 | | 0.075 | 11.70 |
| 5) I pentafluorobenzene | ----------ISTD---------- | | | | | | | | | | | |
| 6) chlorodifluoromethane | 0.723 | 0.723 | 0.689 | 0.680 | 0.691 | 0.715 | 0.632 | 0.690 | 0.764 | 0.637 | 0.694 | 5.75 |
| 7) dichlorodifluoromethane | 0.527 | 0.553 | 0.474 | 0.527 | 0.551 | 0.514 | 0.512 | 0.520 | 0.567 | | 0.527 | 5.26 |
| 8) chloromethane | 0.777 | 0.789 | 0.914 | 0.744 | 0.763 | 0.826 | 0.697 | 0.714 | 0.846 | | 0.786 | 8.67 |
| 9) vinyl chloride | 0.626 | 0.619 | 0.585 | 0.601 | 0.631 | 0.602 | 0.583 | 0.589 | 0.642 | 0.530 | 0.601 | 5.34 |
| 10) 1,3-butadiene *This compound fails Initial Calibration criteria* | 0.498 | 0.473 | | 0.437 | 0.443 | | 0.401 | 0.453 | 0.495 | | 0.457 | 7.50 |
| 11) bromomethane | 0.379 | 0.363 | 0.401 | 0.349 | 0.371 | 0.368 | 0.345 | 0.347 | 0.384 | | 0.368 | 5.07 |
| 12) chloroethane | 0.335 | 0.337 | 0.296 | 0.322 | 0.346 | 0.327 | 0.323 | 0.318 | 0.361 | 0.253 | 0.322 | 9.26 |
| 13) trichlorofluoromethane | 0.656 | 0.665 | 0.569 | 0.663 | 0.697 | 0.590 | 0.655 | 0.644 | 0.685 | | 0.647 | 6.48 |
| 14) ethyl ether | 0.238 | 0.222 | 0.214 | 0.223 | 0.232 | 0.215 | 0.218 | 0.217 | 0.245 | | 0.225 | 4.97 |
| 15) acrolein | 0.100 | 0.086 | | 0.092 | 0.097 | | 0.092 | 0.089 | 0.121 | | 0.097 | 12.22 |
| 16) freon 113 | 0.355 | 0.358 | 0.333 | 0.349 | 0.360 | 0.351 | 0.339 | 0.344 | 0.381 | | 0.352 | 3.94 |
| 17) 1,1-dichloroethene | 0.386 | 0.364 | 0.375 | 0.347 | 0.362 | 0.395 | 0.335 | 0.348 | 0.397 | | 0.368 | 6.02 |
| 18) acetone | 0.288 | 0.266 | | 0.251 | 0.252 | 0.306 | 0.217 | 0.250 | 0.325 | | 0.269 | 13.04 |
| 19) acetonitrile | 0.073 | 0.067 | | 0.064 | 0.066 | 0.074 | 0.062 | 0.063 | 0.070 | | 0.067 | 6.68 |
| 20) iodomethane | 0.737 | 0.706 | 0.660 | 0.702 | 0.733 | 0.722 | 0.677 | 0.699 | 0.768 | 0.607 | 0.701 | 6.43 |
| 21) carbon disulfide | 1.323 | 1.272 | 1.323 | 1.197 | 1.242 | 1.382 | 1.111 | 1.218 | 1.352 | | 1.269 | 6.77 |
| 22) methylene chloride | 0.426 | 0.394 | 0.417 | 0.395 | 0.414 | 0.411 | 0.384 | 0.395 | 0.451 | | 0.410 | 5.02 |
| 23) methyl acetate | | | | | | | | | | | | |

```
      0.474 0.441       0.415 0.424 0.474 0.401 0.404 0.516        0.444    9.18
24)  methyl tert butyl ether
      1.192 1.132 1.084 1.105 1.145 1.163 1.043 1.110 1.276 1.331  1.158    7.60
25)  trans-1,2-dichloroethene
      0.410 0.396 0.423 0.389 0.402 0.447 0.377 0.393 0.469 0.438  0.414    7.02
26)  hexane
      0.811 0.831 0.832 0.797 0.833 0.901 0.736 0.784 0.888        0.824    6.12
27)  di-isopropyl ether
      1.854 1.786 1.821 1.684 1.696 1.861 1.495 1.735 1.981 1.970  1.788    8.11
28)  ethyl tert-butyl ether
      1.601 1.550 1.564 1.491 1.504 1.539 1.340 1.514 1.699 1.658  1.546    6.39
29)  2-butanone
      0.060 0.058       0.058 0.059 0.055 0.055 0.056 0.060        0.057    3.60
30)  1,1-dichloroethane
      0.839 0.816 0.789 0.781 0.812 0.845 0.735 0.788 0.864 0.731  0.800    5.53
31)  chloroprene
      0.775 0.770 0.765 0.753 0.771 0.765 0.704 0.748 0.795 0.761  0.761    3.11
32)  acrylonitrile
      0.206 0.193       0.197 0.206 0.157 0.197 0.190 0.181        0.191    8.34
33)  vinyl acetate   *This compound fails Initial Calibration criteria*
      0.070 0.064       0.062 0.062 0.046 0.060 0.062 0.058        0.061   11.30
34)  ethyl acetate
      0.093 0.088       0.083 0.086 0.084 0.081 0.082 0.093        0.086    5.40
35)  2,2-dichloropropane
      0.619 0.592 0.603 0.564 0.583 0.647 0.531 0.574 0.658 0.653  0.602    6.96
36)  cis-1,2-dichloroethene
      0.461 0.427 0.444 0.428 0.443 0.477 0.413 0.426 0.471 0.471  0.446    5.07
37)  propionitrile
      0.077 0.074 0.064 0.072 0.072 0.067 0.066 0.071 0.082        0.072    7.98
38)  bromochloromethane
      0.297 0.290 0.285 0.286 0.297 0.279 0.278 0.281 0.312 0.243  0.285    6.30
39)  tetrahydrofuran
      0.187 0.174 0.144 0.163 0.166 0.174 0.156 0.159 0.195        0.169    9.33
40)  chloroform
      0.760 0.746 0.870 0.713 0.729 0.829 0.665 0.705 0.826        0.760    8.88
41)  tert-butyl formate  *This compound fails Initial Calibration criteria*
      0.311 0.294 0.295 0.292 0.302 0.304 0.289 0.289 0.343        0.302    5.64
42)  isobutyl alcohol
      0.026 0.026       0.028 0.030       0.027 0.026 0.025        0.027    5.92
43)  dibromofluoromethane (s)
      0.440 0.444 0.441 0.441 0.441 0.444 0.438 0.441 0.442 0.437  0.441    0.47
44)  methacrylonitrile
      0.180 0.174 0.153 0.178 0.186 0.172 0.176 0.175 0.194        0.176    6.37
45)  1,1,1-trichloroethane
      0.654 0.645 0.665 0.637 0.664 0.674 0.608 0.632 0.697 0.620  0.650    4.13
46)  cyclohexane
      0.619 0.626 0.606 0.606 0.642 0.612 0.598 0.595 0.668 0.646  0.622    3.80
47)  1,1-dichloropropene
      0.558 0.559 0.515 0.548 0.564 0.557 0.521 0.549 0.601 0.558  0.553    4.26
48)  tert-amyl alcohol
      0.028 0.028 0.028 0.027 0.028 0.031 0.027 0.026 0.029 0.032  0.028    6.35
49)  carbon tetrachloride
      0.578 0.557 0.513 0.570 0.598 0.559 0.553 0.561 0.613 0.538  0.564    5.01

50) I   1,4-difluorobenzene   ----------------ISTD---------------------
51)  1,2-dichloroethane-d4 (s)
      0.398 0.394 0.398 0.386 0.385 0.399 0.386 0.392 0.399 0.397  0.393    1.44
52)  2,2,4-trimethylpentane
      1.410 1.431 1.358 1.349 1.451 1.420 1.200 1.369 1.512 1.443  1.394    6.01
53)  tert-amyl methyl ether
```

0.959 0.918 0.874 0.875 0.893 0.932 0.801 0.891 1.013 1.056 0.921 8.00

54) n-butyl alcohol

0.011 0.011 0.012 0.012 0.011 0.012 0.012 0.013 0.012 4.46

55) benzene

1.187 1.163 1.109 1.108 1.127 1.161 1.004 1.118 1.218 1.170 1.136 5.18

56) heptane

0.273 0.263 0.258 0.258 0.284 0.258 0.243 0.247 0.290 0.313 0.269 7.99

57) isopropyl acetate

0.071 0.069 0.066 0.069 0.051 0.068 0.065 0.068 0.066 9.55

58) 1,2-dichloroethane

0.499 0.461 0.547 0.451 0.461 0.526 0.425 0.448 0.529 0.483 8.91

59) trichloroethene

0.332 0.324 0.303 0.318 0.326 0.309 0.304 0.315 0.337 0.298 0.317 4.12

60) ethyl acrylate

0.523 0.497 0.502 0.502 0.521 0.463 0.495 0.560 0.508 5.52

61) 2-nitropropane

0.086 0.081 0.087 0.093 0.083 0.090 0.082 0.081 0.085 5.36

62) 2-chloroethyl vinyl ether *This compound fails Initial Calibration criteria*

0.020 0.031 0.091 0.124 0.127 0.058 0.014 0.066 72.03

63) methyl methacrylate

0.086 0.083 0.082 0.086 0.069 0.083 0.084 0.080 0.082 6.54

64) 1,2-dichloropropane

0.354 0.336 0.312 0.331 0.341 0.333 0.316 0.331 0.370 0.325 0.335 5.08

65) methylcyclohexane

0.514 0.531 0.509 0.509 0.553 0.528 0.490 0.510 0.554 0.556 0.526 4.35

66) dibromomethane

0.195 0.183 0.184 0.185 0.193 0.184 0.182 0.177 0.203 0.138 0.182 9.52

67) bromodichloromethane

0.428 0.402 0.378 0.407 0.422 0.412 0.388 0.405 0.449 0.440 0.413 5.35

68) epichlorohydrin

0.039 0.038 0.032 0.038 0.039 0.039 0.037 0.036 0.041 0.038 6.65

69) cis-1,3-dichloropropene

0.514 0.492 0.472 0.491 0.503 0.483 0.463 0.482 0.525 0.484 0.491 3.82

70) 4-methyl-2-pentanone

0.155 0.149 0.137 0.146 0.146 0.134 0.133 0.143 0.163 0.123 0.143 8.07

71) 3-methyl-1-butanol

0.009 0.009 0.009 0.009 0.007 0.009 0.009 0.009 0.009 8.31

72) I chlorobenzene-d5 ----------ISTD----------

73) toluene-d8 (s)

1.259 1.264 1.270 1.274 1.286 1.261 1.304 1.269 1.272 1.260 1.272 1.08

74) toluene

0.815 0.797 0.762 0.783 0.799 0.809 0.735 0.772 0.831 0.797 0.790 3.54

75) trans-1,3-dichloropropene

0.499 0.493 0.471 0.509 0.523 0.503 0.485 0.495 0.527 0.458 0.496 4.30

76) ethyl methacrylate

0.458 0.443 0.369 0.453 0.464 0.401 0.432 0.447 0.486 0.370 0.432 9.17

77) 1,1,2-trichloroethane

0.264 0.258 0.244 0.260 0.264 0.261 0.248 0.250 0.285 0.209 0.254 7.67

78) 2-hexanone

0.185 0.183 0.156 0.181 0.180 0.173 0.162 0.180 0.197 0.178 7.01

79) tetrachloroethene

0.419 0.410 0.390 0.391 0.404 0.428 0.374 0.395 0.462 0.474 0.415 7.78

80) 1,3-dichloropropane

0.499 0.487 0.413 0.484 0.498 0.477 0.463 0.477 0.537 0.474 0.481 6.52

81) butyl acetate

0.286 0.287 0.287 0.290 0.300 0.292 0.285 0.278 0.301 0.247 0.285 5.33

82) dibromochloromethane

0.362 0.352 0.336 0.376 0.396 0.328 0.374 0.359 0.377 0.417 0.368 7.29

83) 1,2-dibromoethane

```
      0.340 0.322 0.323 0.325 0.335 0.334 0.315 0.316 0.341 0.271  0.322    6.31
 84)  n-butyl ether
      1.724 1.703 1.602 1.632 1.602 1.597 1.353 1.660 1.786 1.848  1.651    8.12
 85)  chlorobenzene
      0.920 0.902 0.832 0.879 0.896 0.879 0.802 0.879 0.937 0.890  0.882    4.48
 86)  1,1,1,2-tetrachloroethane
      0.339 0.336 0.301 0.341 0.360 0.334 0.331 0.337 0.364 0.314  0.336    5.57
 87)  ethylbenzene
      1.503 1.466 1.458 1.407 1.382 1.479 1.168 1.443 1.577 1.596  1.448    8.23
 88)  m,p-xylene
      0.574 0.572 0.545 0.562 0.574 0.548 0.519 0.563 0.602 0.579  0.564    4.02
 89)  o-xylene
      1.195 1.171 1.119 1.124 1.114 1.175 0.968 1.147 1.249 1.169  1.143    6.44
 90)  styrene
      0.950 0.914 0.814 0.924 0.931 0.866 0.823 0.920 0.934 0.782  0.886    6.75
 91)  n-amyl acetate
      0.220 0.223       0.235 0.244 0.180 0.236 0.225 0.217        0.223    8.72
 92)  bromoform
      0.246 0.246 0.219 0.269 0.284 0.223 0.272 0.248 0.250 0.244  0.250    8.14
 93)  butyl acrylate
      0.825 0.829       0.870 0.866 0.675 0.774 0.851 0.830        0.815    7.83
 94)  isopropylbenzene
      1.459 1.418 1.413 1.375 1.389 1.443 1.179 1.411 1.534 1.579  1.420    7.48
 95)  cis-1,4-dichloro-2-butene
      0.100 0.110       0.136 0.151       0.147 0.120              0.127   16.03

 96) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
 97)  4-bromofluorobenzene (s)
      0.947 0.942 0.953 0.939 0.941 0.952 0.944 0.937 0.939 0.959  0.945    0.76
 98)  bromobenzene
      0.838 0.802 0.754 0.787 0.807 0.795 0.730 0.789 0.879 0.904  0.808    6.55
 99)  1,1,2,2-tetrachloroethane
      0.764 0.747 0.781 0.744 0.752 0.748 0.685 0.723 0.825 0.748  0.752    4.83
100)  trans-1,4-dichloro-2-butene
      0.183 0.198       0.237 0.259       0.245 0.211 0.178        0.216   14.69
101)  1,2,3-trichloropropane
      0.209 0.197 0.172 0.195 0.199 0.191 0.190 0.191 0.208        0.195    5.65
102)  n-propylbenzene
      3.420 3.358 3.155 3.130 3.116 3.385 2.522 3.236 3.552 3.489  3.236    9.08
103)  2-chlorotoluene
      0.743 0.721 0.681 0.709 0.744 0.718 0.671 0.711 0.756 0.709  0.716    3.74
104)  4-chlorotoluene
      2.159 2.053 2.021 1.943 1.958 2.089 1.688 1.958 2.177 2.121  2.017    7.09
105)  1,3,5-trimethylbenzene
      2.311 2.301 2.246 2.180 2.229 2.267 1.858 2.200 2.351 2.350  2.229    6.41
106)  tert-butylbenzene
      2.042 2.038 1.914 1.959 2.055 2.040 1.723 1.997 2.150 1.977  1.990    5.70
107)  1,2,4-trimethylbenzene
      2.343 2.336 2.181 2.206 2.239 2.238 1.877 2.243 2.429 2.225  2.232    6.53
108)  sec-butylbenzene
      3.015 2.987 2.886 2.799 2.905 2.924 2.318 2.859 3.014 3.074  2.878    7.42
109)  1,3-dichlorobenzene
      1.500 1.481 1.383 1.397 1.441 1.508 1.251 1.425 1.561 1.587  1.453    6.69
110)  p-isopropyltoluene
      2.546 2.532 2.331 2.471 2.564 2.471 2.064 2.512 2.671 2.304  2.447    7.04
111)  benzyl chloride
      1.125 1.159       1.298 1.335 0.928 1.198 1.216 1.114        1.171   10.71
112)  1,2,3-trimethylbenzene
      2.364 2.345 2.307 2.212 2.231 2.314 1.834 2.256 2.470 2.418  2.275    7.68
113)  1,4-dichlorobenzene
```

# Initial Calibration Summary

**Job Number:** JD54302 **Sample:** V2A9596-ICC9596
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220743.D
**Project:** EPT, Ithaca, NY

```
       1.506 1.459 1.437 1.411 1.441 1.476 1.230 1.415 1.581 1.643  1.460    7.53
114)  1,2-dichlorobenzene
       1.452 1.408 1.366 1.367 1.398 1.340 1.209 1.387 1.510 1.477  1.391    5.98
115)  n-butylbenzene
       1.206 1.217 1.131 1.221 1.339 1.131 1.101 1.224 1.220 1.196  1.199    5.57
116)  1,2-dibromo-3-chloropropane
       0.152 0.147       0.163 0.175 0.134 0.161 0.156 0.151        0.155    7.79
117)  1,3,5-trichlorobenzene
       1.069 1.089 0.970 1.081 1.169 1.037 0.949 1.082 1.134 1.017  1.060    6.45
118)  1,2,4-trichlorobenzene
       0.850 0.894 0.742 0.925 0.996 0.822 0.817 0.888 0.866 0.748  0.855    9.07
119)  hexachlorobutadiene
       0.446 0.459 0.420 0.460 0.513 0.427 0.416 0.442 0.460 0.520  0.456    7.81
120)  naphthalene
       1.557 1.607       1.717 1.794 1.309 1.502 1.618 1.524        1.578    9.27
121)  1,2,3-trichlorobenzene
       0.691 0.701 0.612 0.747 0.810 0.608 0.666 0.714 0.673 0.671  0.689    8.68
122)  hexachloroethane
       0.305 0.325       0.389 0.456       0.406 0.346 0.256        0.355   19.02
123)  2-methylnaphthalene
             0.347       0.426 0.516       0.470 0.346              0.421   17.82
 ----------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M2A9596.M         Fri Oct 14 18:47:58 2022   MS2A
```

# Initial Calibration Verification



**Job Number:** JD54302 **Sample:** V2A9596-ICV9596
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220748.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\V2A9596\2A220748.D Vial: 14
Acq On : 13 Oct 2022 11:54 pm Operator: PrashanS
Sample : ICV9596-50 Inst : GCMS2A
Misc : MS62754,V2A9596,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9596.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
Last Update : Fri Oct 14 09:22:42 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 104 | -0.01 | 7.24 |
| 2 | ethanol | 0.101 | 0.099 | 2.0 | 105 | 0.00 | 5.97 |
| 3 | tertiary butyl alcohol | 1.280 | 1.288 | -0.6 | 107 | 0.00 | 7.36 |
| 4 | 1,4-dioxane | 0.075 | 0.079 | -5.3 | 105 | 0.00 | 11.08 |
| 5 I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 106 | 0.00 | 9.51 |
| 6 | chlorodifluoromethane | | ----------NA---------- | | | | |
| 7 | dichlorodifluoromethane | 0.527 | 0.524 | 0.6 | 105 | -0.01 | 3.95 |
| 8 | chloromethane | 0.786 | 0.662 | 15.8 | 94 | -0.01 | 4.34 |
| 9 | vinyl chloride | 0.601 | 0.586 | 2.5 | 103 | -0.01 | 4.56 |
| 10 | 1,3-butadiene | 0.457 | 0.688 | -50.5# | 166 | 0.00 | 4.62 |
| 11 | bromomethane | 0.368 | 0.356 | 3.3 | 108 | -0.01 | 5.19 |
| 12 | chloroethane | 0.322 | 0.329 | -2.2 | 108 | 0.00 | 5.35 |
| 13 | trichlorofluoromethane | 0.647 | 0.651 | -0.6 | 104 | -0.02 | 5.78 |
| 14 | ethyl ether | 0.225 | 0.237 | -5.3 | 112 | 0.00 | 6.19 |
| 15 | acrolein | 0.097 | 0.089 | 8.2 | 102 | 0.00 | 6.41 |
| 16 | freon 113 | 0.352 | 0.342 | 2.8 | 104 | 0.00 | 6.61 |
| 17 | 1,1-dichloroethene | 0.368 | 0.366 | 0.5 | 111 | 0.00 | 6.60 |
| 18 | acetone | 0.269 | 0.206 | 23.4 | 87 | 0.00 | 6.60 |
| 19 | acetonitrile | | ----------NA---------- | | | | |
| 20 | iodomethane | 0.701 | 0.724 | -3.3 | 109 | 0.00 | 6.84 |
| 21 | carbon disulfide | 1.269 | 1.300 | -2.4 | 115 | 0.00 | 6.98 |
| 22 | methylene chloride | 0.410 | 0.414 | -1.0 | 111 | 0.00 | 7.30 |
| 23 | methyl acetate | 0.444 | 0.472 | -6.3 | 120 | 0.00 | 7.06 |
| 24 | methyl tert butyl ether | 1.158 | 1.174 | -1.4 | 112 | 0.00 | 7.65 |
| 25 | trans-1,2-dichloroethene | 0.414 | 0.406 | 1.9 | 110 | 0.00 | 7.68 |
| 26 | hexane | 0.824 | 0.757 | 8.1 | 100 | 0.00 | 8.04 |
| 27 | di-isopropyl ether | 1.788 | 1.710 | 4.4 | 107 | 0.00 | 8.25 |
| 28 | ethyl tert-butyl ether | 1.546 | 1.506 | 2.6 | 107 | 0.00 | 8.71 |
| 29 | 2-butanone | 0.057 | 0.054 | 5.3 | 99 | 0.00 | 8.90 |
| 30 | 1,1-dichloroethane | 0.800 | 0.808 | -1.0 | 109 | 0.00 | 8.26 |
| 31 | chloroprene | 0.761 | 0.816 | -7.2 | 114 | 0.00 | 8.36 |
| 32 | acrylonitrile | | ----------NA---------- | | | | |
| 33 | vinyl acetate | 0.061 | 0.042 | 31.1# | 72 | 0.00 | 8.19 |
| 34 | ethyl acetate | 0.086 | 0.085 | 1.2 | 108 | 0.00 | 8.92 |
| 35 | 2,2-dichloropropane | 0.602 | 0.550 | 8.6 | 103 | 0.00 | 9.00 |
| 36 | cis-1,2-dichloroethene | 0.446 | 0.439 | 1.6 | 108 | 0.00 | 8.97 |
| 37 | propionitrile | 0.072 | 0.067 | 6.9 | 98 | 0.00 | 8.98 |
| 38 | bromochloromethane | 0.285 | 0.296 | -3.9 | 109 | 0.00 | 9.26 |
| 39 | tetrahydrofuran | 0.169 | 0.166 | 1.8 | 108 | 0.00 | 9.28 |
| 40 | chloroform | 0.760 | 0.772 | -1.6 | 114 | 0.00 | 9.35 |
| 41 | tert-butyl formate | 0.302 | 0.153 | 49.3# | 55 | 0.00 | 9.38 |

# Initial Calibration Verification

**Job Number:** JD54302 **Sample:** V2A9596-ICV9596
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220748.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 42 | | isobutyl alcohol | 0.027 | 0.027 | 0.0 | 99 | 0.00 | 9.74 |
| 43 | S | dibromofluoromethane (s) | 0.441 | 0.437 | 0.9 | 105 | 0.00 | 9.54 |
| 44 | | methacrylonitrile | 0.176 | 0.185 | -5.1 | 110 | 0.00 | 9.17 |
| 45 | | 1,1,1-trichloroethane | 0.650 | 0.665 | -2.3 | 110 | 0.00 | 9.60 |
| 46 | | cyclohexane | 0.622 | 0.625 | -0.5 | 109 | 0.00 | 9.71 |
| 47 | | 1,1-dichloropropene | 0.553 | 0.569 | -2.9 | 109 | 0.00 | 9.77 |
| 48 | | tert-amyl alcohol | 0.028 | 0.027 | 3.6 | 104 | 0.00 | 9.90 |
| 49 | | carbon tetrachloride | 0.564 | 0.598 | -6.0 | 111 | 0.00 | 9.80 |
| 50 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 10.43 |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.393 | 0.389 | 1.0 | 105 | 0.00 | 9.95 |
| 52 | | 2,2,4-trimethylpentane | 1.394 | 1.337 | 4.1 | 103 | 0.00 | 10.12 |
| 53 | | tert-amyl methyl ether | 0.921 | 0.882 | 4.2 | 105 | 0.00 | 10.10 |
| 54 | | n-butyl alcohol | 0.012 | 0.012 | 0.0 | 102 | 0.00 | 10.49 |
| 55 | | benzene | 1.136 | 1.162 | -2.3 | 109 | 0.00 | 10.02 |
| 56 | | heptane | 0.269 | 0.290 | -7.8 | 117 | 0.00 | 10.28 |
| 57 | | isopropyl acetate | 0.066 | 0.070 | -6.1 | 110 | 0.00 | 9.94 |
| 58 | | 1,2-dichloroethane | 0.483 | 0.470 | 2.7 | 109 | 0.00 | 10.04 |
| 59 | | trichloroethene | 0.317 | 0.342 | -7.9 | 112 | 0.00 | 10.74 |
| 60 | | ethyl acrylate | 0.508 | 0.486 | 4.3 | 101 | 0.00 | 10.73 |
| 61 | | 2-nitropropane | 0.085 | 0.091 | -7.1 | 109 | 0.00 | 11.50 |
| 62 | | 2-chloroethyl vinyl ether | 0.066 | 0.095 | -43.9# | 109 | 0.00 | 11.53 |
| 63 | | methyl methacrylate | 0.082 | 0.090 | -9.8 | 114 | 0.00 | 11.00 |
| 64 | | 1,2-dichloropropane | 0.335 | 0.345 | -3.0 | 108 | 0.00 | 11.03 |
| 65 | | methylcyclohexane | 0.526 | 0.541 | -2.9 | 111 | 0.00 | 11.04 |
| 66 | | dibromomethane | 0.182 | 0.192 | -5.5 | 108 | 0.00 | 11.14 |
| 67 | | bromodichloromethane | 0.413 | 0.427 | -3.4 | 109 | 0.00 | 11.29 |
| 68 | | epichlorohydrin | 0.038 | 0.036 | 5.3 | 99 | 0.00 | 11.62 |
| 69 | | cis-1,3-dichloropropene | 0.491 | 0.498 | -1.4 | 106 | 0.00 | 11.75 |
| 70 | | 4-methyl-2-pentanone | 0.143 | 0.149 | -4.2 | 107 | 0.00 | 11.86 |
| 71 | | 3-methyl-1-butanol | 0.009 | 0.009 | 0.0 | 105 | 0.00 | 11.86 |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 13.56 |
| 73 | S | toluene-d8 (s) | 1.272 | 1.277 | -0.4 | 105 | 0.00 | 12.06 |
| 74 | | toluene | 0.790 | 0.806 | -2.0 | 108 | 0.00 | 12.13 |
| 75 | | trans-1,3-dichloropropene | 0.496 | 0.522 | -5.2 | 107 | 0.00 | 12.32 |
| 76 | | ethyl methacrylate | 0.432 | 0.444 | -2.8 | 103 | 0.00 | 12.32 |
| 77 | | 1,1,2-trichloroethane | 0.254 | 0.266 | -4.7 | 107 | 0.00 | 12.54 |
| 78 | | 2-hexanone | 0.178 | 0.172 | 3.4 | 100 | 0.00 | 12.70 |
| 79 | | tetrachloroethene | | ----------NA---------- | | | | |
| 80 | | 1,3-dichloropropane | 0.481 | 0.505 | -5.0 | 109 | 0.00 | 12.72 |
| 81 | | butyl acetate | 0.285 | 0.298 | -4.6 | 108 | 0.00 | 12.79 |
| 82 | | dibromochloromethane | 0.368 | 0.395 | -7.3 | 110 | 0.00 | 12.96 |
| 83 | | 1,2-dibromoethane | 0.322 | 0.340 | -5.6 | 110 | 0.00 | 13.11 |
| 84 | | n-butyl ether | 1.651 | 1.616 | 2.1 | 104 | 0.00 | 13.56 |
| 85 | | chlorobenzene | 0.882 | 0.920 | -4.3 | 110 | 0.00 | 13.59 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.336 | 0.356 | -6.0 | 109 | 0.00 | 13.66 |
| 87 | | ethylbenzene | 1.448 | 1.463 | -1.0 | 109 | 0.00 | 13.66 |
| 88 | | m,p-xylene | 0.564 | 0.592 | -5.0 | 110 | 0.00 | 13.78 |
| 89 | | o-xylene | 1.143 | 1.162 | -1.7 | 108 | 0.00 | 14.18 |
| 90 | | styrene | 0.886 | 0.958 | -8.1 | 109 | 0.00 | 14.19 |
| 91 | | n-amyl acetate | 0.223 | 0.238 | -6.7 | 106 | 0.00 | 14.22 |
| 92 | | bromoform | 0.250 | 0.278 | -11.2 | 108 | 0.00 | 14.41 |
| 93 | | butyl acrylate | 0.815 | 0.858 | -5.3 | 103 | 0.00 | 14.01 |
| 94 | | isopropylbenzene | 1.420 | 1.425 | -0.4 | 108 | 0.00 | 14.52 |
| 95 | | cis-1,4-dichloro-2-butene | 0.127 | 0.127 | 0.0 | 98 | 0.00 | 14.56 |
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 15.89 |
| 97 | S | 4-bromofluorobenzene (s) | 0.945 | 0.935 | 1.1 | 105 | 0.00 | 14.72 |
| 98 | | bromobenzene | 0.808 | 0.812 | -0.5 | 109 | 0.00 | 14.90 |

# Initial Calibration Verification

**Job Number:** JD54302 **Sample:** V2A9596-ICV9596
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220748.D
**Project:** EPT, Ithaca, NY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 99 | 1,1,2,2-tetrachloroethane | 0.752 | 0.724 | 3.7 | 103 | 0.00 | 14.80 |
| 100 | trans-1,4-dichloro-2-bute | 0.216 | 0.245 | -13.4 | 109 | 0.00 | 14.84 |
| 101 | 1,2,3-trichloropropane | 0.195 | 0.204 | -4.6 | 110 | 0.00 | 14.88 |
| 102 | n-propylbenzene | 3.236 | 3.212 | 0.7 | 108 | 0.00 | 14.94 |
| 103 | 2-chlorotoluene | 0.716 | 0.742 | -3.6 | 110 | 0.00 | 15.07 |
| 104 | 4-chlorotoluene | 2.017 | 2.009 | 0.4 | 109 | 0.00 | 15.18 |
| 105 | 1,3,5-trimethylbenzene | 2.229 | 2.234 | -0.2 | 108 | 0.00 | 15.09 |
| 106 | tert-butylbenzene | 1.990 | 2.013 | -1.2 | 108 | 0.00 | 15.43 |
| 107 | 1,2,4-trimethylbenzene | 2.232 | 2.259 | -1.2 | 108 | 0.00 | 15.48 |
| 108 | sec-butylbenzene | 2.878 | 2.862 | 0.6 | 108 | 0.00 | 15.65 |
| 109 | 1,3-dichlorobenzene | 1.453 | 1.443 | 0.7 | 109 | 0.00 | 15.82 |
| 110 | p-isopropyltoluene | 2.447 | 2.523 | -3.1 | 108 | 0.00 | 15.78 |
| 111 | benzyl chloride | 1.171 | 1.161 | 0.9 | 94 | 0.00 | 16.01 |
| 112 | 1,2,3-trimethylbenzene | | ----------NA---------- | | | | |
| 113 | 1,4-dichlorobenzene | 1.460 | 1.467 | -0.5 | 110 | 0.00 | 15.91 |
| 114 | 1,2-dichlorobenzene | 1.391 | 1.396 | -0.4 | 108 | 0.00 | 16.28 |
| 115 | n-butylbenzene | 1.199 | 1.242 | -3.6 | 107 | 0.00 | 16.20 |
| 116 | 1,2-dibromo-3-chloropropa | 0.155 | 0.167 | -7.7 | 108 | 0.00 | 17.05 |
| 117 | 1,3,5-trichlorobenzene | 1.060 | 1.091 | -2.9 | 106 | 0.00 | 17.24 |
| 118 | 1,2,4-trichlorobenzene | 0.855 | 0.918 | -7.4 | 105 | 0.00 | 17.88 |
| 119 | hexachlorobutadiene | 0.456 | 0.455 | 0.2 | 104 | 0.00 | 18.00 |
| 120 | naphthalene | 1.578 | 1.675 | -6.1 | 103 | 0.00 | 18.17 |
| 121 | 1,2,3-trichlorobenzene | 0.689 | 0.734 | -6.5 | 104 | 0.00 | 18.40 |
| 122 | hexachloroethane | 0.355 | 0.403 | -13.5 | 109 | 0.00 | 16.57 |
| 123 | 2-methylnaphthalene | 0.421 | 0.362 | 14.0 | 90 | 0.00 | 19.40 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A220743.D M2A9596.M Fri Oct 14 18:47:36 2022 MS2A

# Initial Calibration Verification



**Job Number:** JD54302 **Sample:** V2A9596-ICV9596
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220749.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\V2A9596\2A220749.D Vial: 15
Acq On : 14 Oct 2022 12:22 am Operator: PrashanS
Sample : ICV9596-50 Inst : GCMS2A
Misc : MS62754,V2A9596,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9596.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
Last Update : Fri Oct 14 09:22:42 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 7.25 |
| 2 | ethanol | | ----------NA---------- | | | | |
| 3 | tertiary butyl alcohol | | ----------NA---------- | | | | |
| 4 | 1,4-dioxane | | ----------NA---------- | | | | |
| 5 I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 9.51 |
| 6 | chlorodifluoromethane | 0.694 | 0.688 | 0.9 | 105 | 0.00 | 3.99 |
| 7 | dichlorodifluoromethane | | ----------NA---------- | | | | |
| 8 | chloromethane | | ----------NA---------- | | | | |
| 9 | vinyl chloride | | ----------NA---------- | | | | |
| 10 | 1,3-butadiene | | ----------NA---------- | | | | |
| 11 | bromomethane | | ----------NA---------- | | | | |
| 12 | chloroethane | | ----------NA---------- | | | | |
| 13 | trichlorofluoromethane | | ----------NA---------- | | | | |
| 14 | ethyl ether | | ----------NA---------- | | | | |
| 15 | acrolein | | ----------NA---------- | | | | |
| 16 | freon 113 | | ----------NA---------- | | | | |
| 17 | 1,1-dichloroethene | | ----------NA---------- | | | | |
| 18 | acetone | | ----------NA---------- | | | | |
| 19 | acetonitrile | 0.067 | 0.059 | 11.9 | 95 | 0.00 | 7.01 |
| 20 | iodomethane | | ----------NA---------- | | | | |
| 21 | carbon disulfide | | ----------NA---------- | | | | |
| 22 | methylene chloride | | ----------NA---------- | | | | |
| 23 | methyl acetate | | ----------NA---------- | | | | |
| 24 | methyl tert butyl ether | | ----------NA---------- | | | | |
| 25 | trans-1,2-dichloroethene | | ----------NA---------- | | | | |
| 26 | hexane | | ----------NA---------- | | | | |
| 27 | di-isopropyl ether | | ----------NA---------- | | | | |
| 28 | ethyl tert-butyl ether | | ----------NA---------- | | | | |
| 29 | 2-butanone | | ----------NA---------- | | | | |
| 30 | 1,1-dichloroethane | | ----------NA---------- | | | | |
| 31 | chloroprene | | ----------NA---------- | | | | |
| 32 | acrylonitrile | 0.191 | 0.160 | 16.2 | 84 | 0.00 | 7.59 |
| 33 | vinyl acetate | | ----------NA---------- | | | | |
| 34 | ethyl acetate | | ----------NA---------- | | | | |
| 35 | 2,2-dichloropropane | | ----------NA---------- | | | | |
| 36 | cis-1,2-dichloroethene | | ----------NA---------- | | | | |
| 37 | propionitrile | | ----------NA---------- | | | | |
| 38 | bromochloromethane | | ----------NA---------- | | | | |
| 39 | tetrahydrofuran | | ----------NA---------- | | | | |
| 40 | chloroform | | ----------NA---------- | | | | |
| 41 | tert-butyl formate | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD54302 **Sample:** V2A9596-ICV9596
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220749.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 42 | | isobutyl alcohol | | ----------NA---------- | | | | | |
| 43 | S | dibromofluoromethane (s) | 0.441 | 0.438 | 0.7 | 103 | 0.00 | 9.54 | |
| 44 | | methacrylonitrile | | ----------NA---------- | | | | | |
| 45 | | 1,1,1-trichloroethane | | ----------NA---------- | | | | | |
| 46 | | cyclohexane | | ----------NA---------- | | | | | |
| 47 | | 1,1-dichloropropene | | ----------NA---------- | | | | | |
| 48 | | tert-amyl alcohol | | ----------NA---------- | | | | | |
| 49 | | carbon tetrachloride | | ----------NA---------- | | | | | |
| 50 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 10.43 | |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.393 | 0.399 | -1.5 | 105 | 0.00 | 9.95 | |
| 52 | | 2,2,4-trimethylpentane | | ----------NA---------- | | | | | |
| 53 | | tert-amyl methyl ether | | ----------NA---------- | | | | | |
| 54 | | n-butyl alcohol | | ----------NA---------- | | | | | |
| 55 | | benzene | | ----------NA---------- | | | | | |
| 56 | | heptane | | ----------NA---------- | | | | | |
| 57 | | isopropyl acetate | | ----------NA---------- | | | | | |
| 58 | | 1,2-dichloroethane | | ----------NA---------- | | | | | |
| 59 | | trichloroethene | | ----------NA---------- | | | | | |
| 60 | | ethyl acrylate | | ----------NA---------- | | | | | |
| 61 | | 2-nitropropane | | ----------NA---------- | | | | | |
| 62 | | 2-chloroethyl vinyl ether | | ----------NA---------- | | | | | |
| 63 | | methyl methacrylate | | ----------NA---------- | | | | | |
| 64 | | 1,2-dichloropropane | | ----------NA---------- | | | | | |
| 65 | | methylcyclohexane | | ----------NA---------- | | | | | |
| 66 | | dibromomethane | | ----------NA---------- | | | | | |
| 67 | | bromodichloromethane | | ----------NA---------- | | | | | |
| 68 | | epichlorohydrin | | ----------NA---------- | | | | | |
| 69 | | cis-1,3-dichloropropene | | ----------NA---------- | | | | | |
| 70 | | 4-methyl-2-pentanone | | ----------NA---------- | | | | | |
| 71 | | 3-methyl-1-butanol | | ----------NA---------- | | | | | |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 13.56 | |
| 73 | S | toluene-d8 (s) | 1.272 | 1.253 | 1.5 | 103 | 0.00 | 12.06 | |
| 74 | | toluene | | ----------NA---------- | | | | | |
| 75 | | trans-1,3-dichloropropene | | ----------NA---------- | | | | | |
| 76 | | ethyl methacrylate | | ----------NA---------- | | | | | |
| 77 | | 1,1,2-trichloroethane | | ----------NA---------- | | | | | |
| 78 | | 2-hexanone | | ----------NA---------- | | | | | |
| 79 | | tetrachloroethene | 0.415 | 0.371 | 10.6 | 99 | 0.00 | 12.68 | |
| 80 | | 1,3-dichloropropane | | ----------NA---------- | | | | | |
| 81 | | butyl acetate | | ----------NA---------- | | | | | |
| 82 | | dibromochloromethane | | ----------NA---------- | | | | | |
| 83 | | 1,2-dibromoethane | | ----------NA---------- | | | | | |
| 84 | | n-butyl ether | | ----------NA---------- | | | | | |
| 85 | | chlorobenzene | | ----------NA---------- | | | | | |
| 86 | | 1,1,1,2-tetrachloroethane | | ----------NA---------- | | | | | |
| 87 | | ethylbenzene | | ----------NA---------- | | | | | |
| 88 | | m,p-xylene | | ----------NA---------- | | | | | |
| 89 | | o-xylene | | ----------NA---------- | | | | | |
| 90 | | styrene | | ----------NA---------- | | | | | |
| 91 | | n-amyl acetate | | ----------NA---------- | | | | | |
| 92 | | bromoform | | ----------NA---------- | | | | | |
| 93 | | butyl acrylate | | ----------NA---------- | | | | | |
| 94 | | isopropylbenzene | | ----------NA---------- | | | | | |
| 95 | | cis-1,4-dichloro-2-butene | | ----------NA---------- | | | | | |
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 15.89 | |
| 97 | S | 4-bromofluorobenzene (s) | 0.945 | 0.958 | -1.4 | 104 | 0.00 | 14.72 | |
| 98 | | bromobenzene | | ----------NA---------- | | | | | |

# Initial Calibration Verification

**Job Number:** JD54302 **Sample:** V2A9596-ICV9596
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220749.D
**Project:** EPT, Ithaca, NY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 99 | 1,1,2,2-tetrachloroethane | | ----------NA---------- | | | | |
| 100 | trans-1,4-dichloro-2-bute | | ----------NA---------- | | | | |
| 101 | 1,2,3-trichloropropane | | ----------NA---------- | | | | |
| 102 | n-propylbenzene | | ----------NA---------- | | | | |
| 103 | 2-chlorotoluene | | ----------NA---------- | | | | |
| 104 | 4-chlorotoluene | | ----------NA---------- | | | | |
| 105 | 1,3,5-trimethylbenzene | | ----------NA---------- | | | | |
| 106 | tert-butylbenzene | | ----------NA---------- | | | | |
| 107 | 1,2,4-trimethylbenzene | | ----------NA---------- | | | | |
| 108 | sec-butylbenzene | | ----------NA---------- | | | | |
| 109 | 1,3-dichlorobenzene | | ----------NA---------- | | | | |
| 110 | p-isopropyltoluene | | ----------NA---------- | | | | |
| 111 | benzyl chloride | | ----------NA---------- | | | | |
| 112 | 1,2,3-trimethylbenzene | 2.275 | 2.370 | -4.2 | 110 | 0.00 | 15.91 |
| 113 | 1,4-dichlorobenzene | | ----------NA---------- | | | | |
| 114 | 1,2-dichlorobenzene | | ----------NA---------- | | | | |
| 115 | n-butylbenzene | | ----------NA---------- | | | | |
| 116 | 1,2-dibromo-3-chloropropa | | ----------NA---------- | | | | |
| 117 | 1,3,5-trichlorobenzene | | ----------NA---------- | | | | |
| 118 | 1,2,4-trichlorobenzene | | ----------NA---------- | | | | |
| 119 | hexachlorobutadiene | | ----------NA---------- | | | | |
| 120 | naphthalene | | ----------NA---------- | | | | |
| 121 | 1,2,3-trichlorobenzene | | ----------NA---------- | | | | |
| 122 | hexachloroethane | | ----------NA---------- | | | | |
| 123 | 2-methylnaphthalene | | ----------NA---------- | | | | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A220743.D M2A9596.M Fri Oct 14 18:47:37 2022 MS2A

# Continuing Calibration Summary



**Job Number:** JD54302 **Sample:** V2A9619-CC9596
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A221287.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ne...22\v2a9619\2a221287.d Vial: 29
Acq On : 27 Oct 2022 10:49 pm Operator: nickw
Sample : cc9596-50 Inst : GCMS2A
Misc : MS63376,V2A9619,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9596.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
Last Update : Mon Sep 13 11:48:20 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 91 | 0.00 | 7.25 |
| 2 | ethanol | 0.101 | 0.091 | 9.9 | 85 | 0.00 | 5.97 |
| 3 | tertiary butyl alcohol | 1.280 | 1.157 | 9.6 | 84 | 0.00 | 7.36 |
| 4 | 1,4-dioxane | 0.075 | 0.079 | -5.3 | 91 | 0.00 | 11.08 |
| 5 I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 9.51 |
| 6 | chlorodifluoromethane | 0.694 | 0.508 | 26.8# | 75 | -0.01 | 3.98 |
| 7 | dichlorodifluoromethane | 0.527 | 0.493 | 6.5 | 94 | 0.00 | 3.96 |
| 8 | chloromethane | 0.786 | 0.399 | 49.2# | 54 | 0.00 | 4.35 |
| 9 | vinyl chloride | 0.601 | 0.345 | 42.6# | 58 | 0.00 | 4.57 |
| 10 | 1,3-butadiene | 0.457 | 0.218 | 52.3# | 50 | 0.00 | 4.62 |
| 11 | bromomethane | 0.368 | 0.309 | 16.0 | 89 | -0.01 | 5.19 |
| 12 | chloroethane | 0.322 | 0.273 | 15.2 | 86 | 0.00 | 5.36 |
| 13 | trichlorofluoromethane | 0.647 | 0.595 | 8.0 | 91 | -0.01 | 5.78 |
| 14 | ethyl ether | 0.225 | 0.199 | 11.6 | 90 | 0.00 | 6.19 |
| 15 | acrolein | 0.097 | 0.081 | 16.5 | 89 | 0.00 | 6.41 |
| 16 | freon 113 | 0.352 | 0.309 | 12.2 | 89 | 0.00 | 6.61 |
| 17 | 1,1-dichloroethene | 0.368 | 0.308 | 16.3 | 89 | 0.00 | 6.60 |
| 18 | acetone | 0.269 | 0.138 | 48.7# | 56 | 0.00 | 6.60 |
| 19 | acetonitrile | 0.067 | 0.058 | 13.4 | 92 | 0.00 | 7.01 |
| 20 | iodomethane | 0.701 | 0.666 | 5.0 | 96 | 0.00 | 6.84 |
| 21 | carbon disulfide | 1.269 | 1.010 | 20.4# | 85 | 0.00 | 6.98 |
| 22 | methylene chloride | 0.410 | 0.360 | 12.2 | 92 | 0.00 | 7.30 |
| 23 | methyl acetate | 0.444 | 0.350 | 21.2# | 85 | 0.00 | 7.06 |
| 24 | methyl tert butyl ether | 1.158 | 1.013 | 12.5 | 92 | 0.00 | 7.65 |
| 25 | trans-1,2-dichloroethene | 0.414 | 0.347 | 16.2 | 90 | 0.00 | 7.68 |
| 26 | hexane | 0.824 | 0.593 | 28.0# | 75 | 0.00 | 8.04 |
| 27 | di-isopropyl ether | 1.788 | 1.410 | 21.1# | 84 | 0.00 | 8.25 |
| 28 | ethyl tert-butyl ether | 1.546 | 1.319 | 14.7 | 89 | 0.00 | 8.71 |
| 29 | 2-butanone | 0.057 | 0.045 | 21.1# | 79 | 0.00 | 8.90 |
| 30 | 1,1-dichloroethane | 0.800 | 0.671 | 16.1 | 87 | 0.00 | 8.26 |
| 31 | chloroprene | 0.761 | 0.604 | 20.6# | 81 | 0.00 | 8.36 |
| 32 | acrylonitrile | | ----------NA---------- | | | | |
| 33 | vinyl acetate | 0.061 | 0.072 | -18.0 | 118 | 0.00 | 8.19 |
| 34 | ethyl acetate | 0.086 | 0.074 | 14.0 | 90 | 0.00 | 8.92 |
| 35 | 2,2-dichloropropane | 0.602 | 0.444 | 26.2# | 79 | 0.00 | 9.00 |
| 36 | cis-1,2-dichloroethene | 0.446 | 0.392 | 12.1 | 92 | 0.00 | 8.97 |
| 37 | propionitrile | 0.072 | 0.066 | 8.3 | 93 | 0.00 | 8.98 |
| 38 | bromochloromethane | 0.285 | 0.275 | 3.5 | 97 | 0.00 | 9.26 |
| 39 | tetrahydrofuran | 0.169 | 0.144 | 14.8 | 89 | 0.00 | 9.28 |
| 40 | chloroform | 0.760 | 0.633 | 16.7 | 89 | 0.00 | 9.35 |
| 41 | tert-butyl formate | 0.302 | 0.335 | -10.9 | 116 | 0.00 | 9.38 |

# Continuing Calibration Summary

**Job Number:** JD54302 **Sample:** V2A9619-CC9596
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A221287.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 42 | | isobutyl alcohol | 0.027 | 0.021 | 22.2# | 76 | 0.00 | 9.75 |
| 43 | S | dibromofluoromethane (s) | 0.441 | 0.437 | 0.9 | 100 | 0.00 | 9.54 |
| 44 | | methacrylonitrile | 0.176 | 0.170 | 3.4 | 96 | 0.00 | 9.17 |
| 45 | | 1,1,1-trichloroethane | 0.650 | 0.568 | 12.6 | 90 | 0.00 | 9.61 |
| 46 | | cyclohexane | 0.622 | 0.513 | 17.5 | 85 | 0.00 | 9.72 |
| 47 | | 1,1-dichloropropene | 0.553 | 0.462 | 16.5 | 85 | 0.00 | 9.77 |
| 48 | | tert-amyl alcohol | 0.028 | 0.024 | 14.3 | 89 | 0.00 | 9.90 |
| 49 | | carbon tetrachloride | 0.564 | 0.514 | 8.9 | 91 | 0.00 | 9.80 |
| 50 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 100 | 0.00 | 10.43 |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.393 | 0.347 | 11.7 | 90 | 0.00 | 9.95 |
| 52 | | 2,2,4-trimethylpentane | 1.394 | 1.094 | 21.5# | 81 | 0.00 | 10.11 |
| 53 | | tert-amyl methyl ether | 0.921 | 0.805 | 12.6 | 92 | 0.00 | 10.10 |
| 54 | | n-butyl alcohol | 0.012 | 0.011 | 8.3 | 88 | 0.00 | 10.49 |
| 55 | | benzene | 1.136 | 0.979 | 13.8 | 88 | 0.00 | 10.02 |
| 56 | | heptane | 0.269 | 0.224 | 16.7 | 87 | 0.00 | 10.28 |
| 57 | | isopropyl acetate | 0.066 | 0.062 | 6.1 | 94 | 0.00 | 9.94 |
| 58 | | 1,2-dichloroethane | 0.483 | 0.379 | 21.5# | 84 | 0.00 | 10.04 |
| 59 | | trichloroethene | 0.317 | 0.279 | 12.0 | 88 | 0.00 | 10.74 |
| 60 | | ethyl acrylate | 0.508 | 0.457 | 10.0 | 91 | 0.00 | 10.73 |
| 61 | | 2-nitropropane | 0.085 | 0.071 | 16.5 | 81 | 0.00 | 11.50 |
| 62 | | 2-chloroethyl vinyl ether | 0.066 | 0.125 | -89.4# | 137 | 0.00 | 11.53 |
| 63 | | methyl methacrylate | 0.082 | 0.081 | 1.2 | 98 | 0.00 | 11.00 |
| 64 | | 1,2-dichloropropane | 0.335 | 0.293 | 12.5 | 88 | 0.00 | 11.03 |
| 65 | | methylcyclohexane | 0.526 | 0.417 | 20.7# | 82 | 0.00 | 11.04 |
| 66 | | dibromomethane | 0.182 | 0.172 | 5.5 | 93 | 0.00 | 11.14 |
| 67 | | bromodichloromethane | 0.413 | 0.368 | 10.9 | 90 | 0.00 | 11.29 |
| 68 | | epichlorohydrin | 0.038 | 0.033 | 13.2 | 87 | 0.00 | 11.62 |
| 69 | | cis-1,3-dichloropropene | 0.491 | 0.416 | 15.3 | 85 | 0.00 | 11.75 |
| 70 | | 4-methyl-2-pentanone | 0.143 | 0.129 | 9.8 | 88 | 0.00 | 11.86 |
| 71 | | 3-methyl-1-butanol | 0.009 | 0.008 | 11.1 | 83 | 0.00 | 11.86 |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 93 | 0.00 | 13.56 |
| 73 | S | toluene-d8 (s) | 1.272 | 1.267 | 0.4 | 93 | 0.00 | 12.06 |
| 74 | | toluene | 0.790 | 0.710 | 10.1 | 84 | 0.00 | 12.13 |
| 75 | | trans-1,3-dichloropropene | 0.496 | 0.458 | 7.7 | 84 | 0.00 | 12.32 |
| 76 | | ethyl methacrylate | 0.432 | 0.414 | 4.2 | 85 | 0.00 | 12.31 |
| 77 | | 1,1,2-trichloroethane | 0.254 | 0.247 | 2.8 | 88 | 0.00 | 12.54 |
| 78 | | 2-hexanone | 0.178 | 0.150 | 15.7 | 77 | 0.00 | 12.70 |
| 79 | | tetrachloroethene | 0.415 | 0.392 | 5.5 | 93 | 0.00 | 12.68 |
| 80 | | 1,3-dichloropropane | 0.481 | 0.442 | 8.1 | 85 | 0.00 | 12.72 |
| 81 | | butyl acetate | 0.285 | 0.264 | 7.4 | 85 | 0.00 | 12.79 |
| 82 | | dibromochloromethane | 0.368 | 0.390 | -6.0 | 97 | 0.00 | 12.96 |
| 83 | | 1,2-dibromoethane | 0.322 | 0.334 | -3.7 | 96 | 0.00 | 13.11 |
| 84 | | n-butyl ether | 1.651 | 1.321 | 20.0 | 75 | 0.00 | 13.56 |
| 85 | | chlorobenzene | 0.882 | 0.817 | 7.4 | 87 | 0.00 | 13.59 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.336 | 0.341 | -1.5 | 93 | 0.00 | 13.66 |
| 87 | | ethylbenzene | 1.448 | 1.249 | 13.7 | 83 | 0.00 | 13.65 |
| 88 | | m,p-xylene | 0.564 | 0.500 | 11.3 | 83 | 0.00 | 13.77 |
| 89 | | o-xylene | 1.143 | 1.000 | 12.5 | 83 | 0.00 | 14.17 |
| 90 | | styrene | 0.886 | 0.818 | 7.7 | 83 | 0.00 | 14.19 |
| 91 | | n-amyl acetate | 0.223 | 0.197 | 11.7 | 78 | 0.00 | 14.22 |
| 92 | | bromoform | 0.250 | 0.289 | -15.6 | 100 | 0.00 | 14.41 |
| 93 | | butyl acrylate | 0.815 | 0.733 | 10.1 | 79 | 0.00 | 14.01 |
| 94 | | isopropylbenzene | 1.420 | 1.231 | 13.3 | 83 | 0.00 | 14.52 |
| 95 | | cis-1,4-dichloro-2-butene | 0.127 | 0.125 | 1.6 | 86 | 0.00 | 14.56 |
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 93 | 0.00 | 15.89 |
| 97 | S | 4-bromofluorobenzene (s) | 0.945 | 0.890 | 5.8 | 88 | 0.00 | 14.72 |
| 98 | | bromobenzene | 0.808 | 0.772 | 4.5 | 91 | 0.00 | 14.90 |

# Continuing Calibration Summary

**Job Number:** JD54302 **Sample:** V2A9619-CC9596
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A221287.D
**Project:** EPT, Ithaca, NY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 99 | 1,1,2,2-tetrachloroethane | 0.752 | 0.713 | 5.2 | 89 | 0.00 | 14.80 |
| 100 | trans-1,4-dichloro-2-bute | 0.216 | 0.174 | 19.4 | 68 | 0.00 | 14.83 |
| 101 | 1,2,3-trichloropropane | 0.195 | 0.200 | -2.6 | 96 | 0.00 | 14.88 |
| 102 | n-propylbenzene | 3.236 | 2.684 | 17.1 | 80 | 0.00 | 14.94 |
| 103 | 2-chlorotoluene | 0.716 | 0.665 | 7.1 | 87 | 0.00 | 15.07 |
| 104 | 4-chlorotoluene | 2.017 | 1.722 | 14.6 | 82 | 0.00 | 15.18 |
| 105 | 1,3,5-trimethylbenzene | 2.229 | 1.931 | 13.4 | 82 | 0.00 | 15.09 |
| 106 | tert-butylbenzene | 1.990 | 1.784 | 10.4 | 85 | 0.00 | 15.43 |
| 107 | 1,2,4-trimethylbenzene | 2.232 | 1.955 | 12.4 | 82 | 0.00 | 15.48 |
| 108 | sec-butylbenzene | 2.878 | 2.409 | 16.3 | 80 | 0.00 | 15.65 |
| 109 | 1,3-dichlorobenzene | 1.453 | 1.318 | 9.3 | 88 | 0.00 | 15.81 |
| 110 | p-isopropyltoluene | 2.447 | 2.207 | 9.8 | 83 | 0.00 | 15.78 |
| 111 | benzyl chloride | 1.171 | 1.067 | 8.9 | 76 | 0.00 | 16.00 |
| 112 | 1,2,3-trimethylbenzene | 2.275 | 1.977 | 13.1 | 83 | 0.00 | 15.91 |
| 113 | 1,4-dichlorobenzene | 1.460 | 1.318 | 9.7 | 87 | 0.00 | 15.91 |
| 114 | 1,2-dichlorobenzene | 1.391 | 1.312 | 5.7 | 89 | 0.00 | 16.28 |
| 115 | n-butylbenzene | 1.199 | 1.018 | 15.1 | 77 | 0.00 | 16.19 |
| 116 | 1,2-dibromo-3-chloropropa | 0.155 | 0.177 | -14.2 | 101 | 0.00 | 17.05 |
| 117 | 1,3,5-trichlorobenzene | 1.060 | 1.060 | 0.0 | 91 | 0.00 | 17.24 |
| 118 | 1,2,4-trichlorobenzene | 0.855 | 0.911 | -6.5 | 92 | 0.00 | 17.88 |
| 119 | hexachlorobutadiene | 0.456 | 0.452 | 0.9 | 91 | 0.00 | 18.00 |
| 120 | naphthalene | 1.578 | 1.737 | -10.1 | 94 | 0.00 | 18.17 |
| 121 | 1,2,3-trichlorobenzene | 0.689 | 0.728 | -5.7 | 91 | 0.00 | 18.39 |
| 122 | hexachloroethane | 0.355 | 0.358 | -0.8 | 85 | 0.00 | 16.57 |
| 123 | 2-methylnaphthalene | 0.421 | 0.326 | 22.6# | 71 | 0.00 | 19.40 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A220743.D M2A9596.M Sat Oct 29 04:16:28 2022

# Initial Calibration Summary



**Job Number:** JD54302 **Sample:** VL10548-ICC10548
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348715.D
**Project:** EPT, Ithaca, NY

Response Factor Report GCMSL

Method : C:\MSDCHEM\1\METHODS\ML10548.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

Calibration Files
8 =L348713.D 0.5 =L348709.D 4 =L348712.D 50 =L348715.D
100 =L348716.D 1 =L348710.D 200 =L348717.D 20 =L348714.D
2 =L348711.D 0.2 =L348708.D = =

| Compound | 8 | 0.5 | 4 | 50 | 100 | 1 | 200 | 20 | 2 | 0.2 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) I tert butyl alcohol-d9 | ----------ISTD---------- | | | | | | | | | | | |
| 2) 1,4-dioxane | 0.095 | 0.095 | 0.100 | 0.093 | 0.107 | 0.100 | 0.095 | 0.108 | | | 0.099 | 5.86 |
| 3) ethanol | 0.134 | 0.152 | 0.133 | 0.137 | 0.124 | 0.154 | 0.118 | 0.131 | 0.134 | | 0.135 | 8.68 |
| 4) tertiary butyl alcohol | 1.511 | 1.701 | 1.525 | 1.530 | 1.375 | 1.395 | 1.412 | 1.486 | 1.543 | | 1.497 | 6.61 |
| 5) I pentafluorobenzene | ----------ISTD---------- | | | | | | | | | | | |
| 6) chlorodifluoromethane | 0.954 | 0.959 | 0.926 | 1.008 | 0.933 | 1.071 | 0.870 | 0.967 | 0.934 | 1.107 | 0.973 | 7.29 |
| 7) dichlorodifluoromethane | 1.128 | 0.968 | 1.115 | 1.285 | 1.213 | 1.103 | 1.156 | 1.174 | 1.090 | | 1.137 | 7.73 |
| 8) chloromethane | 0.839 | 0.931 | 0.865 | 0.929 | 0.889 | 0.851 | 0.840 | 0.875 | 0.842 | | 0.873 | 4.14 |
| 9) vinyl chloride | 0.914 | 0.880 | 0.881 | 0.983 | 0.914 | 0.935 | 0.844 | 0.936 | 0.870 | 0.884 | 0.904 | 4.47 |
| 10) 1,3-butadiene | 0.695 | 0.608 | 0.695 | 0.671 | 0.612 | 0.715 | 0.543 | 0.689 | 0.659 | | 0.654 | 8.51 |
| 11) bromomethane | 0.155 | 0.150 | 0.224 | 0.250 | 0.195 | 0.125 | | | | | 0.183 | 26.15 |
| ----- Linear regression ----- Coefficient = 0.9933 | | | | | | | | | | | | |
| Response Ratio = -0.00726 + 0.24088 *A | | | | | | | | | | | | |
| 12) chloroethane | 0.452 | 0.510 | 0.454 | 0.489 | 0.450 | 0.500 | 0.397 | 0.481 | 0.482 | 0.474 | 0.469 | 6.92 |
| 13) trichlorofluoromethane | 0.992 | 0.916 | 0.967 | 1.071 | 1.016 | 0.990 | 0.955 | 1.008 | 0.999 | 0.820 | 0.973 | 6.94 |
| 14) ethyl ether | 0.390 | 0.493 | 0.406 | 0.411 | 0.382 | 0.391 | 0.364 | 0.400 | 0.424 | | 0.407 | 9.06 |
| 15) acrolein | 0.193 | 0.195 | 0.211 | 0.199 | 0.199 | 0.193 | 0.218 | | | | 0.201 | 4.77 |
| 16) freon 113 | 0.450 | 0.495 | 0.481 | 0.474 | 0.442 | 0.478 | 0.415 | 0.479 | 0.461 | 0.452 | 0.463 | 5.08 |
| 17) 1,1-dichloroethene | 0.553 | 0.567 | 0.544 | 0.493 | 0.576 | 0.465 | 0.557 | 0.595 | | | 0.544 | 7.97 |
| 18) acetone | 0.134 | 0.134 | 0.136 | 0.125 | 0.158 | 0.118 | 0.136 | 0.133 | | | 0.134 | 8.35 |
| 19) acetonitrile | 0.074 | 0.080 | 0.075 | 0.070 | 0.064 | 0.075 | 0.073 | | | | 0.073 | 7.18 |
| 20) iodomethane | 0.223 | 0.176 | 0.381 | 0.407 | 0.389 | 0.287 | 0.162 | | | | 0.289 | 36.15 |
| ----- Linear regression ----- Coefficient = 0.9955 | | | | | | | | | | | | |
| Response Ratio = -0.01531 + 0.39418 *A | | | | | | | | | | | | |

21) iso-butyl alcohol
0.067 0.075 0.063 0.055 0.050 0.064 0.062 14.24
22) carbon disulfide
1.836 1.845 1.774 1.662 2.360 1.554 1.765 1.995 1.849 13.20
23) methylene chloride
0.602 0.679 0.582 0.618 0.570 0.640 0.553 0.600 0.667 0.612 7.00
24) methyl acetate
0.175 0.153 0.185 0.185 0.171 0.171 0.160 0.188 0.188 0.175 7.14
25) methyl tert butyl ether
1.914 1.988 1.868 1.885 1.684 1.980 1.545 1.960 1.990 1.592 1.841 9.23
26) trans-1,2-dichloroethene
0.570 0.592 0.564 0.523 0.690 0.486 0.580 0.583 0.574 10.26
27) hexane
1.044 1.251 1.042 1.051 0.998 1.073 0.924 1.028 1.146 1.062 8.69
28) di-isopropyl ether
2.188 2.236 2.070 1.847 1.631 2.178 2.349 2.071 12.03
29) ethyl tert-butyl ether
2.104 2.373 2.121 2.106 1.918 2.278 1.779 2.172 2.281 2.062 2.120 8.30
30) 2-butanone
0.137 0.172 0.136 0.146 0.138 0.145 0.131 0.149 0.146 0.132 0.143 8.27
31) 1,1-dichloroethane
1.187 1.132 1.094 0.988 1.192 0.896 1.122 1.162 1.097 9.46
32) chloroprene
1.011 1.015 0.973 0.915 1.093 0.853 0.996 1.062 0.990 7.78
33) acrylonitrile
0.413 0.399 0.381 0.434 0.420 0.435 0.398 0.415 0.406 0.411 4.26
34) vinyl acetate
0.158 0.149 0.149 0.167 0.148 0.142 0.150 0.169 0.177 0.157 7.48
35) ethyl acetate
0.185 0.201 0.168 0.156 0.146 0.173 0.200 0.175 12.00
36) 2,2-dichloropropane
0.911 0.907 0.832 0.753 1.007 0.703 0.891 1.012 0.877 12.56
37) cis-1,2-dichloroethene
0.662 0.643 0.607 0.544 0.636 0.522 0.622 0.715 0.619 10.06
38) propionitrile
0.166 0.172 0.153 0.140 0.123 0.160 0.152 11.94
39) methyl acrylate
0.156 0.149 0.139 0.136 0.155 0.125 0.141 0.172 0.147 9.96
40) bromochloromethane
0.281 0.272 0.282 0.276 0.257 0.256 0.248 0.281 0.304 0.273 6.27
41) tetrahydrofuran
0.155 0.174 0.165 0.161 0.149 0.154 0.146 0.163 0.169 0.160 5.77
42) chloroform
1.058 1.074 1.037 0.952 1.278 0.899 1.052 1.213 1.070 11.61
43) dibromofluoromethane (s)
0.409 0.406 0.404 0.435 0.432 0.401 0.444 0.423 0.406 0.402 0.416 3.78
44) methacrylonitrile
0.407 0.472 0.401 0.413 0.391 0.464 0.383 0.404 0.425 0.418 7.42
45) 1,1,1-trichloroethane
0.863 0.939 0.833 0.880 0.838 0.961 0.807 0.878 0.866 1.050 0.891 8.13
46) cyclohexane
0.964 0.965 0.918 0.883 1.011 0.823 0.945 0.934 0.930 6.14
47) 1,1-dichloropropene
0.845 0.811 0.811 0.781 0.731 0.978 0.688 0.805 0.813 0.807 9.94
48) carbon tetrachloride
0.725 0.764 0.710 0.697 0.639 0.775 0.604 0.720 0.753 0.710 7.97
49) isopropyl acetate
0.180 0.193 0.185 0.177 0.203 0.175 0.190 0.156 0.182 7.72
50) tert amyl alcohol

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.064 | 0.060 | 0.060 | 0.055 | 0.048 | 0.062 | 0.079 | | 0.061 | 15.25 |
| 51) I | 1,4-difluorobenzene | ---------- | ISTD | ---------- | | | | | | |
| 52) | 1,2-dichloroethane-d4 (s) | | | | | | | | | |
| | 0.360 | 0.359 | 0.351 | 0.326 | 0.320 | 0.346 | 0.307 | 0.347 | 0.365 | 0.343 | 0.342 | 5.55 |
| 53) | tert-amyl methyl ether | | | | | | | | | |
| | 1.372 | 1.330 | 1.224 | 1.092 | 0.975 | 1.293 | 1.478 | | 1.252 | 13.70 |
| 54) | 2,2,4-trimethylpentane | | | | | | | | | |
| | 1.515 | 1.529 | 1.343 | 1.224 | 1.084 | 1.414 | 1.604 | | 1.388 | 13.31 |
| 55) | n-butyl alcohol | | | | | | | | | |
| | 0.028 | 0.030 | 0.028 | 0.025 | 0.022 | 0.028 | 0.030 | | 0.027 | 11.06 |
| 56) | benzene | | | | | | | | | |
| | 1.714 | 1.994 | 1.692 | 1.543 | 1.388 | 1.812 | 1.236 | 1.627 | 1.786 | | 1.644 | 13.94 |
| 57) | heptane | | | | | | | | | |
| | 0.326 | 0.376 | 0.323 | 0.319 | 0.314 | 0.365 | 0.283 | 0.311 | 0.341 | | 0.329 | 8.64 |
| 58) | 1,2-dichloroethane | | | | | | | | | |
| | 0.561 | 0.553 | 0.516 | 0.469 | 0.643 | 0.437 | 0.542 | 0.595 | | 0.539 | 12.22 |
| 59) | trichloroethene | | | | | | | | | |
| | 0.403 | 0.484 | 0.413 | 0.414 | 0.394 | 0.458 | 0.369 | 0.415 | 0.401 | 0.480 | 0.423 | 9.01 |
| 60) | ethyl acrylate | | | | | | | | | |
| | 0.858 | 0.837 | 0.808 | 0.720 | 0.656 | 0.825 | 0.884 | | 0.798 | 10.17 |
| 61) | 2-nitropropane | | | | | | | | | |
| | 0.205 | 0.181 | 0.195 | 0.184 | 0.232 | 0.174 | 0.193 | 0.215 | | 0.197 | 9.70 |
| 62) | 2-chloroethyl vinyl ether | | | | | | | | | |
| | 0.325 | 0.356 | 0.343 | 0.304 | 0.263 | 0.354 | 0.231 | 0.312 | 0.362 | 0.294 | 0.314 | 13.67 |
| 63) | methyl methacrylate | | | | | | | | | |
| | 0.158 | 0.167 | 0.156 | 0.144 | 0.180 | 0.130 | 0.159 | 0.154 | | 0.156 | 9.35 |
| 64) | 1,2-dichloropropane | | | | | | | | | |
| | 0.476 | 0.502 | 0.448 | 0.423 | 0.387 | 0.492 | 0.346 | 0.442 | 0.506 | 0.417 | 0.444 | 11.79 |
| 65) | methylcyclohexane | | | | | | | | | |
| | 0.798 | 0.789 | 0.753 | 0.698 | 0.883 | 0.634 | 0.742 | 0.761 | | 0.757 | 9.64 |
| 66) | dibromomethane | | | | | | | | | |
| | 0.256 | 0.306 | 0.245 | 0.240 | 0.228 | 0.283 | 0.216 | 0.248 | 0.293 | | 0.257 | 11.81 |
| 67) | bromodichloromethane | | | | | | | | | |
| | 0.589 | 0.675 | 0.555 | 0.572 | 0.539 | 0.667 | 0.510 | 0.574 | 0.605 | 0.659 | 0.594 | 9.51 |
| 68) | cis-1,3-dichloropropene | | | | | | | | | |
| | 0.751 | 0.853 | 0.702 | 0.702 | 0.652 | 0.698 | 0.610 | 0.723 | 0.780 | 0.661 | 0.713 | 9.70 |
| 69) | epichlorohydrin | | | | | | | | | |
| | 0.091 | 0.092 | 0.085 | 0.081 | 0.099 | 0.075 | 0.087 | 0.095 | | 0.088 | 9.04 |
| 70) | 4-methyl-2-pentanone | | | | | | | | | |
| | 0.305 | 0.307 | 0.276 | 0.243 | 0.329 | 0.215 | 0.286 | 0.331 | | 0.286 | 14.30 |
| 71) | 3-methyl-1-butanol | | | | | | | | | |
| | 0.027 | 0.029 | 0.026 | 0.022 | 0.020 | 0.026 | 0.031 | | 0.026 | 14.47 |
| 72) I | chlorobenzene-d5 | ---------- | ISTD | ---------- | | | | | | |
| 73) | toluene-d8 (s) | | | | | | | | | |
| | 1.370 | 1.366 | 1.384 | 1.246 | 1.239 | 1.388 | 1.215 | 1.297 | 1.350 | 1.384 | 1.324 | 5.15 |
| 74) | toluene | | | | | | | | | |
| | 1.150 | 1.203 | 1.149 | 1.047 | 0.941 | 1.309 | 0.863 | 1.068 | 1.158 | 1.225 | 1.111 | 12.08 |
| 75) | trans-1,3-dichloropropene | | | | | | | | | |
| | 0.732 | 0.691 | 0.677 | 0.624 | 0.843 | 0.574 | 0.702 | 0.761 | | 0.701 | 11.76 |
| 76) | ethyl methacrylate | | | | | | | | | |
| | 0.791 | 0.801 | 0.710 | 0.627 | 0.560 | 0.740 | 0.807 | | 0.720 | 13.18 |
| 77) | 1,1,2-trichloroethane | | | | | | | | | |
| | 0.390 | 0.410 | 0.374 | 0.364 | 0.332 | 0.428 | 0.309 | 0.373 | 0.408 | 0.344 | 0.373 | 10.05 |
| 78) | 2-hexanone | | | | | | | | | |
| | 0.358 | 0.387 | 0.369 | 0.307 | 0.270 | 0.417 | 0.225 | 0.340 | 0.369 | 0.304 | 0.335 | 17.34 |
| 79) | tetrachloroethene | | | | | | | | | |
| | 0.460 | 0.512 | 0.484 | 0.441 | 0.408 | 0.548 | 0.380 | 0.449 | 0.520 | 0.398 | 0.460 | 12.13 |
| 80) | 1,3-dichloropropane | | | | | | | | | |

```
      0.735 0.835 0.780 0.673 0.610 0.843 0.551 0.739 0.816 0.805  0.739   13.42
 81)  butyl acetate
      0.505       0.516 0.448 0.404       0.367 0.472 0.502        0.459   12.22
 82)  dibromochloromethane
      0.462 0.529 0.483 0.429 0.403 0.511 0.379 0.451 0.461        0.457   10.56
 83)  1,2-dibromoethane
      0.478 0.551 0.463 0.449 0.416 0.515 0.393 0.447 0.498 0.407  0.462   10.84
 84)  n-butyl ether
      2.171       2.154 1.917 1.677       1.414 2.086 2.177        1.942   15.19
 85)  chlorobenzene
      1.132 1.221 1.149 1.074 0.986 1.210 0.903 1.105 1.137 1.307  1.122   10.36
 86)  1,1,1,2-tetrachloroethane
      0.397       0.422 0.359 0.324 0.471 0.289 0.384 0.394        0.380   14.90
 87)  ethylbenzene
      2.087 2.323 2.106 1.786 1.553 2.365 1.317 1.980 2.283 2.299  2.010   17.69
 88)  m,p-xylene
      0.832 0.915 0.811 0.712 0.638 0.882 0.561 0.755 0.845 0.877  0.783   14.69
 89)  o-xylene
      0.848 0.820 0.859 0.734 0.660 0.891 0.590 0.753 0.808        0.773   12.81
 90)  butyl acrylate
      1.171       1.156 1.113 0.992       0.862 1.171 1.254        1.103   12.02
 91)  styrene
      1.349 1.431 1.336 1.183 1.046 1.486 0.911 1.268 1.371 1.369  1.275   14.06
 92)  bromoform
      0.358 0.392 0.349 0.334 0.305 0.399 0.282 0.336 0.361        0.346   10.92
 93)  isopropylbenzene
      2.165 2.220 2.145 1.900 1.666 2.386 1.428 1.998 2.227        2.015   15.14
 94)  cis-1,4-dichloro-2-butene
      0.211       0.205 0.215 0.211 0.191 0.193 0.216 0.196        0.205    4.92

 95) I   1,4-dichlorobenzene-d ----------------ISTD--------------------
 96)  4-bromofluorobenzene (s)
      1.152 1.102 1.109 1.189 1.194 1.128 1.211 1.168 1.133 1.114  1.150    3.38
 97)  bromobenzene
      1.098 1.167 1.042 1.104 1.015 1.221 0.974 1.101 1.138 0.975  1.083    7.52
 98)  1,1,2,2-tetrachloroethane
      1.695 1.734 1.575 1.672 1.534 1.878 1.454 1.657 1.618 1.862  1.668    8.04
 99)  trans-1,4-dichloro-2-butene
      0.408 0.463 0.407 0.443 0.416 0.403 0.398 0.429 0.424        0.421    5.03
100)  1,2,3-trichloropropane
      0.473       0.460 0.456 0.408 0.485 0.395 0.459 0.465        0.450    7.01
101)  n-propylbenzene
      5.589       5.319 5.183 4.658 5.667 4.207 5.239 5.749        5.201   10.19
102)  2-chlorotoluene
      1.044       1.023 1.043 0.967 1.122 0.943 1.029 1.058        1.029    5.37
103)  4-chlorotoluene
      1.036 1.117 1.028 0.997 0.938 1.135 0.909 1.014 1.216 0.916  1.031    9.75
104)  1,3,5-trimethylbenzene
      3.796 4.079 3.749 3.688 3.300 4.156 2.996 3.731 3.902 4.291  3.769   10.33
105)  tert-butylbenzene
      3.345 3.282 3.163 3.183 2.884 3.445 2.683 3.190 3.375 3.525  3.208    8.00
106)  1,2,4-trimethylbenzene
      3.934       3.696 3.682 3.299 4.213 2.990 3.726 3.952        3.686   10.49
107)  sec-butylbenzene
      4.907 5.228 4.762 4.685 4.220 5.145 3.805 4.701 4.735 4.693  4.688    8.87
108)  1,3-dichlorobenzene
      1.968 1.943 1.792 1.958 1.800 2.151 1.710 1.963 1.873 1.710  1.887    7.28
109)  p-isopropyltoluene
      3.790 4.086 3.639 3.555 3.157 4.072 2.828 3.604 3.846 3.768  3.635   10.73
110)  1,4-dichlorobenzene
```

# Initial Calibration Summary

**Job Number:** JD54302 **Sample:** VL10548-ICC10548
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348715.D
**Project:** EPT, Ithaca, NY

```
       1.785 1.931 1.761 1.822 1.714 1.892 1.615 1.814 1.946 2.190  1.847    8.47
111)  1,2,3-trimethylbenzene
       3.689       3.615 3.470 3.124 4.160 2.845 3.600 3.759        3.533   11.34
112)  1,2-dichlorobenzene
       1.829 1.818 1.719 1.778 1.629 1.934 1.529 1.791 1.897 1.904  1.783    7.14
113)  n-butylbenzene
       1.898 1.986 1.785 1.950 1.838 1.894 1.719 1.894 1.782 1.772  1.852    4.65
114)  1,2-dibromo-3-chloropropane
       0.411 0.431 0.413 0.459 0.454 0.357 0.469 0.418 0.453        0.429    8.05
115)  1,3,5-trichlorobenzene
       1.285 1.273 1.218 1.390 1.300 1.166 1.251 1.308 1.192 1.196  1.258    5.36
116)  1,2,4-trichlorobenzene
       1.033 0.994 0.929 1.205 1.125 1.023 1.115 1.087 0.933        1.049    8.76
117)  hexachlorobutadiene
       0.459 0.486 0.440 0.467 0.448 0.535 0.445 0.473 0.447        0.467    6.40
118)  naphthalene
       3.517 3.893 3.321 3.851 3.567 3.735 3.435 3.749 3.553 3.261  3.588    6.01
119)  1,2,3-trichlorobenzene
       0.978 0.968 0.872 1.097 1.045 1.054 1.031 1.012 0.968        1.003    6.52
120)  hexachloroethane
       0.726 0.677 0.653 0.740 0.700 0.712 0.678 0.700 0.582        0.685    6.84
121)  benzyl chloride
       2.704 3.276 2.693 2.930 2.655 2.886 2.526 2.871 2.772 3.113  2.843    7.89
122)  2-methylnaphthalene
       1.340             1.964 1.956       2.025 1.652              1.788   16.19

123)     pentafluorobenzene(a) ----------------ISTD---------------------
124)  Freon 142B
       0.808       0.856 0.802 0.800 0.968 0.738 0.804 0.924        0.837    8.97
125)  vinyl bromide
       0.141       0.147 0.148 0.145 0.160 0.130 0.147 0.129        0.144    6.98
126)  allyl chloride
       0.344       0.387 0.359 0.341 0.401 0.314 0.376 0.392        0.364    8.20

127)     1,4-dichlorobenzene-d ----------------ISTD---------------------
128)  pentachloroethane
       0.625       0.636 0.618 0.639 0.759 0.591 0.667 0.558        0.637    9.31
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           ML10548.M         Fri Oct 28 18:08:02 2022   1
```

# Initial Calibration Verification



**Job Number:** JD54302 **Sample:** VL10548-ICV10548
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348720.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VL10548\L348720.D Vial: 14
Acq On : 27 Oct 2022 6:33 am Operator: PrashanS
Sample : ICV10548-50 Inst : GCMSL
Misc : MS63290,VL10548,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10548.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Fri Oct 28 17:50:59 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 100 | 0.00 | 3.06 |
| 2 | | 1,4-dioxane | 0.099 | 0.095 | 4.0 | 96 | 0.00 | 5.28 |
| 3 | | ethanol | 0.135 | 0.137 | -1.5 | 100 | 0.00 | 2.49 |
| 4 | M | tertiary butyl alcohol | 1.497 | 1.648 | -10.1 | 108 | 0.00 | 3.12 |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 99 | 0.00 | 4.28 |
| 6 | | chlorodifluoromethane | | ----------NA---------- | | | | |
| 7 | | dichlorodifluoromethane | 1.137 | 1.025 | 9.9 | 79 | 0.00 | 1.63 |
| 8 | | chloromethane | 0.873 | 0.779 | 10.8 | 83 | 0.00 | 1.80 |
| 9 | | vinyl chloride | 0.904 | 0.875 | 3.2 | 88 | 0.00 | 1.88 |
| 10 | | 1,3-butadiene | 0.654 | 0.842 | -28.7 | 124 | 0.00 | 1.91 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 11 | | bromomethane | 50.000 | 45.505 | 9.0 | 94 | 0.00 | 2.13 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 12 | | chloroethane | 0.469 | 0.473 | -0.9 | 95 | 0.00 | 2.21 |
| 13 | | trichlorofluoromethane | 0.973 | 0.984 | -1.1 | 91 | 0.00 | 2.39 |
| 14 | | ethyl ether | 0.407 | 0.384 | 5.7 | 92 | 0.00 | 2.58 |
| 15 | | acrolein | 0.201 | 0.208 | -3.5 | 97 | 0.00 | 2.68 |
| 16 | | freon 113 | 0.463 | 0.418 | 9.7 | 87 | 0.00 | 2.75 |
| 17 | | 1,1-dichloroethene | 0.544 | 0.514 | 5.5 | 93 | 0.00 | 2.76 |
| 18 | | acetone | 0.134 | 0.118 | 11.9 | 86 | 0.00 | 2.77 |
| 19 | | acetonitrile | | ----------NA---------- | | | | |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | | iodomethane | 50.000 | 40.021 | 20.0 | 78 | 0.00 | 2.87 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | | iso-butyl alcohol | 0.062 | 0.067 | -8.1 | 106 | 0.00 | 4.43 |
| 22 | | carbon disulfide | 1.849 | 1.662 | 10.1 | 93 | 0.00 | 2.93 |
| 23 | | methylene chloride | 0.612 | 0.573 | 6.4 | 92 | 0.00 | 3.09 |
| 24 | | methyl acetate | 0.175 | 0.190 | -8.6 | 101 | 0.00 | 2.98 |
| 25 | | methyl tert butyl ether | 1.841 | 1.844 | -0.2 | 97 | 0.00 | 3.26 |
| 26 | | trans-1,2-dichloroethene | 0.574 | 0.535 | 6.8 | 94 | 0.00 | 3.27 |
| 27 | | hexane | 1.062 | 0.989 | 6.9 | 93 | 0.00 | 3.45 |
| 28 | | di-isopropyl ether | 2.071 | 2.039 | 1.5 | 97 | 0.00 | 3.56 |
| 29 | | ethyl tert-butyl ether | 2.120 | 2.073 | 2.2 | 97 | 0.00 | 3.81 |
| 30 | | 2-butanone | 0.143 | 0.149 | -4.2 | 101 | 0.00 | 3.93 |
| 31 | M | 1,1-dichloroethane | 1.097 | 1.062 | 3.2 | 96 | 0.00 | 3.57 |
| 32 | | chloroprene | 0.990 | 0.947 | 4.3 | 96 | 0.00 | 3.62 |
| 33 | | acrylonitrile | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD54302 **Sample:** VL10548-ICV10548
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348720.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 34 | | vinyl acetate | 0.157 | 0.118 | 24.8 | 70 | 0.00 | 3.54 |
| 35 | | ethyl acetate | 0.175 | 0.172 | 1.7 | 101 | 0.00 | 3.94 |
| 36 | | 2,2-dichloropropane | 0.877 | 0.803 | 8.4 | 95 | 0.00 | 3.96 |
| 37 | | cis-1,2-dichloroethene | 0.619 | 0.588 | 5.0 | 96 | 0.00 | 3.95 |
| 38 | | propionitrile | 0.152 | 0.146 | 3.9 | 94 | 0.00 | 3.97 |
| 39 | | methyl acrylate | 0.147 | 0.137 | 6.8 | 98 | 0.00 | 3.98 |
| 40 | | bromochloromethane | 0.273 | 0.267 | 2.2 | 95 | 0.00 | 4.13 |
| 41 | | tetrahydrofuran | 0.160 | 0.157 | 1.9 | 96 | 0.00 | 4.13 |
| 42 | | chloroform | 1.070 | 1.063 | 0.7 | 101 | 0.00 | 4.18 |
| 43 | S | dibromofluoromethane (s) | 0.416 | 0.438 | -5.3 | 99 | 0.00 | 4.29 |
| 44 | | methacrylonitrile | 0.418 | 0.424 | -1.4 | 101 | 0.00 | 4.08 |
| 45 | | 1,1,1-trichloroethane | 0.891 | 0.861 | 3.4 | 97 | 0.00 | 4.31 |
| 46 | | cyclohexane | 0.930 | 0.906 | 2.6 | 98 | 0.00 | 4.38 |
| 47 | | 1,1-dichloropropene | 0.807 | 0.764 | 5.3 | 97 | 0.00 | 4.42 |
| 48 | | carbon tetrachloride | 0.710 | 0.671 | 5.5 | 95 | 0.00 | 4.43 |
| 49 | | isopropyl acetate | 0.182 | 0.192 | -5.5 | 103 | 0.00 | 4.54 |
| 50 | | tert amyl alcohol | 0.061 | 0.062 | -1.6 | 102 | 0.00 | 4.52 |
| 51 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 4.85 |
| 52 | S | 1,2-dichloroethane-d4 (s) | 0.342 | 0.333 | 2.6 | 103 | 0.00 | 4.54 |
| 53 | | tert-amyl methyl ether | 1.252 | 1.153 | 7.9 | 95 | 0.00 | 4.63 |
| 54 | | 2,2,4-trimethylpentane | 1.388 | 1.214 | 12.5 | 91 | 0.00 | 4.63 |
| 55 | | n-butyl alcohol | 0.027 | 0.029 | -7.4 | 102 | 0.00 | 4.90 |
| 56 | M | benzene | 1.644 | 1.460 | 11.2 | 95 | 0.00 | 4.57 |
| 57 | | heptane | 0.329 | 0.295 | 10.3 | 93 | 0.00 | 4.74 |
| 58 | | 1,2-dichloroethane | 0.539 | 0.497 | 7.8 | 97 | 0.00 | 4.60 |
| 59 | | trichloroethene | 0.423 | 0.409 | 3.3 | 99 | 0.00 | 5.04 |
| 60 | | ethyl acrylate | 0.798 | 0.787 | 1.4 | 98 | 0.00 | 5.06 |
| 61 | | 2-nitropropane | 0.197 | 0.205 | -4.1 | 106 | 0.00 | 5.59 |
| 62 | | 2-chloroethyl vinyl ether | 0.314 | 0.266 | 15.3 | 88 | 0.00 | 5.62 |
| 63 | | methyl methacrylate | 0.156 | 0.165 | -5.8 | 107 | 0.00 | 5.24 |
| 64 | | 1,2-dichloropropane | 0.444 | 0.406 | 8.6 | 97 | 0.00 | 5.24 |
| 65 | | methylcyclohexane | 0.757 | 0.660 | 12.8 | 88 | 0.00 | 5.23 |
| 66 | | dibromomethane | 0.257 | 0.233 | 9.3 | 97 | 0.00 | 5.31 |
| 67 | | bromodichloromethane | 0.594 | 0.573 | 3.5 | 101 | 0.00 | 5.43 |
| 68 | | cis-1,3-dichloropropene | 0.713 | 0.703 | 1.4 | 101 | 0.00 | 5.76 |
| 69 | | epichlorohydrin | 0.088 | 0.087 | 1.1 | 102 | 0.00 | 5.67 |
| 70 | | 4-methyl-2-pentanone | 0.286 | 0.282 | 1.4 | 103 | 0.00 | 5.86 |
| 71 | | 3-methyl-1-butanol | 0.026 | 0.026 | 0.0 | 103 | 0.00 | 5.88 |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 7.24 |
| 73 | S | toluene-d8 (s) | 1.324 | 1.237 | 6.6 | 100 | 0.00 | 5.99 |
| 74 | | toluene | 1.111 | 1.025 | 7.7 | 99 | 0.00 | 6.05 |
| 75 | | trans-1,3-dichloropropene | 0.701 | 0.687 | 2.0 | 102 | 0.00 | 6.22 |
| 76 | | ethyl methacrylate | 0.720 | 0.695 | 3.5 | 99 | 0.00 | 6.24 |
| 77 | | 1,1,2-trichloroethane | 0.373 | 0.363 | 2.7 | 101 | 0.00 | 6.39 |
| 78 | | 2-hexanone | 0.335 | 0.310 | 7.5 | 102 | 0.00 | 6.55 |
| 79 | | tetrachloroethene | | ----------NA---------- | | | | |
| 80 | | 1,3-dichloropropane | 0.739 | 0.669 | 9.5 | 100 | 0.00 | 6.53 |
| 81 | | butyl acetate | 0.459 | 0.469 | -2.2 | 106 | 0.00 | 6.64 |
| 82 | | dibromochloromethane | 0.457 | 0.441 | 3.5 | 104 | 0.00 | 6.72 |
| 83 | | 1,2-dibromoethane | 0.462 | 0.450 | 2.6 | 101 | 0.00 | 6.84 |
| 84 | | n-butyl ether | 1.942 | 1.914 | 1.4 | 101 | 0.00 | 7.31 |
| 85 | | chlorobenzene | 1.122 | 1.093 | 2.6 | 103 | 0.00 | 7.27 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.380 | 0.367 | 3.4 | 103 | 0.00 | 7.34 |
| 87 | | ethylbenzene | 2.010 | 1.815 | 9.7 | 103 | 0.00 | 7.34 |
| 88 | | m,p-xylene | 0.783 | 0.729 | 6.9 | 103 | 0.00 | 7.46 |
| 89 | | o-xylene | 0.773 | 0.760 | 1.7 | 105 | 0.00 | 7.81 |
| 90 | | butyl acrylate | 1.103 | 1.137 | -3.1 | 103 | 0.00 | 7.73 |
| 91 | | styrene | 1.275 | 1.228 | 3.7 | 105 | 0.00 | 7.83 |

# Initial Calibration Verification

**Job Number:** JD54302 **Sample:** VL10548-ICV10548
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348720.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 92 | | bromoform | 0.346 | 0.342 | 1.2 | 103 | 0.00 | 8.01 |
| 93 | | isopropylbenzene | 2.015 | 1.940 | 3.7 | 103 | 0.00 | 8.15 |
| 94 | | cis-1,4-dichloro-2-butene | 0.205 | 0.212 | -3.4 | 100 | 0.00 | 8.20 |
| 95 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 9.43 |
| 96 | S | 4-bromofluorobenzene (s) | 1.150 | 1.181 | -2.7 | 100 | 0.00 | 8.32 |
| 97 | | bromobenzene | 1.083 | 1.136 | -4.9 | 104 | 0.00 | 8.46 |
| 98 | | 1,1,2,2-tetrachloroethane | 1.668 | 1.677 | -0.5 | 101 | 0.00 | 8.43 |
| 99 | | trans-1,4-dichloro-2-bute | 0.421 | 0.478 | -13.5 | 109 | 0.00 | 8.47 |
| 100 | | 1,2,3-trichloropropane | 0.450 | 0.472 | -4.9 | 104 | 0.00 | 8.50 |
| 101 | | n-propylbenzene | 5.201 | 5.366 | -3.2 | 104 | 0.00 | 8.54 |
| 102 | | 2-chlorotoluene | 1.029 | 1.058 | -2.8 | 102 | 0.00 | 8.64 |
| 103 | | 4-chlorotoluene | 1.031 | 1.057 | -2.5 | 107 | 0.00 | 8.75 |
| 104 | | 1,3,5-trimethylbenzene | 3.769 | 3.777 | -0.2 | 103 | 0.00 | 8.71 |
| 105 | | tert-butylbenzene | 3.208 | 3.357 | -4.6 | 106 | 0.00 | 9.02 |
| 106 | | 1,2,4-trimethylbenzene | 3.686 | 3.730 | -1.2 | 102 | 0.00 | 9.07 |
| 107 | | sec-butylbenzene | 4.688 | 4.917 | -4.9 | 106 | 0.00 | 9.23 |
| 108 | | 1,3-dichlorobenzene | 1.887 | 2.008 | -6.4 | 103 | 0.00 | 9.36 |
| 109 | | p-isopropyltoluene | 3.635 | 3.685 | -1.4 | 105 | 0.00 | 9.38 |
| 110 | | 1,4-dichlorobenzene | 1.847 | 1.942 | -5.1 | 107 | 0.00 | 9.46 |
| 111 | | 1,2,3-trimethylbenzene | | ----------NA---------- | | | | |
| 112 | | 1,2-dichlorobenzene | 1.783 | 1.857 | -4.2 | 105 | 0.00 | 9.81 |
| 113 | | n-butylbenzene | 1.852 | 2.044 | -10.4 | 106 | 0.00 | 9.78 |
| 114 | | 1,2-dibromo-3-chloropropa | 0.429 | 0.490 | -14.2 | 108 | 0.00 | 10.58 |
| 115 | | 1,3,5-trichlorobenzene | 1.258 | 1.426 | -13.4 | 103 | 0.00 | 10.76 |
| 116 | | 1,2,4-trichlorobenzene | 1.049 | 1.240 | -18.2 | 104 | 0.00 | 11.39 |
| 117 | | hexachlorobutadiene | 0.467 | 0.507 | -8.6 | 109 | 0.00 | 11.53 |
| 118 | | naphthalene | 3.588 | 3.963 | -10.5 | 104 | 0.00 | 11.65 |
| 119 | | 1,2,3-trichlorobenzene | 1.003 | 1.131 | -12.8 | 104 | 0.00 | 11.88 |
| 120 | | hexachloroethane | 0.685 | 0.772 | -12.7 | 105 | 0.00 | 10.08 |
| 121 | | benzyl chloride | 2.843 | 2.823 | 0.7 | 97 | 0.00 | 9.56 |
| 122 | | 2-methylnaphthalene | 1.788 | 2.041 | -14.1 | 105 | 0.00 | 12.78 |
| 123 | | pentafluorobenzene(a) | 1.000 | 1.000 | 0.0 | 99 | 0.00 | 4.28 |
| 124 | | Freon 142B | | ----------NA---------- | | | | |
| 125 | | vinyl bromide | | ----------NA---------- | | | | |
| 126 | | allyl chloride | | ----------NA---------- | | | | |
| 127 | | 1,4-dichlorobenzene-d4(a) | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 9.43 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L348715.D ML10548.M Fri Oct 28 17:52:51 2022 1

# Initial Calibration Verification



**Job Number:** JD54302 **Sample:** VL10548-ICV10548
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348721.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VL10548\L348721.D Vial: 15
Acq On : 27 Oct 2022 6:56 am Operator: PrashanS
Sample : ICV10548-50 Inst : GCMSL
Misc : MS63290,VL10548,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10548.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Thu Oct 27 19:06:54 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 3.06 |
| 2 | | 1,4-dioxane | | ----------NA---------- | | | | |
| 3 | | ethanol | | ----------NA---------- | | | | |
| 4 | M | tertiary butyl alcohol | | ----------NA---------- | | | | |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 110 | 0.00 | 4.28 |
| 6 | | chlorodifluoromethane | 0.973 | 0.968 | 0.5 | 105 | 0.00 | 1.65 |
| 7 | | dichlorodifluoromethane | | ----------NA---------- | | | | |
| 8 | | chloromethane | | ----------NA---------- | | | | |
| 9 | | vinyl chloride | | ----------NA---------- | | | | |
| 10 | | 1,3-butadiene | | ----------NA---------- | | | | |
| 11 | | bromomethane | | ----------NA---------- | | | | |
| 12 | | chloroethane | | ----------NA---------- | | | | |
| 13 | | trichlorofluoromethane | | ----------NA---------- | | | | |
| 14 | | ethyl ether | | ----------NA---------- | | | | |
| 15 | | acrolein | | ----------NA---------- | | | | |
| 16 | | freon 113 | | ----------NA---------- | | | | |
| 17 | | 1,1-dichloroethene | | ----------NA---------- | | | | |
| 18 | | acetone | | ----------NA---------- | | | | |
| 19 | | acetonitrile | 0.073 | 0.076 | -4.1 | 110 | 0.00 | 2.96 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | | iodomethane | | ----------NA---------- | | | | |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | | iso-butyl alcohol | | ----------NA---------- | | | | |
| 22 | | carbon disulfide | | ----------NA---------- | | | | |
| 23 | | methylene chloride | | ----------NA---------- | | | | |
| 24 | | methyl acetate | | ----------NA---------- | | | | |
| 25 | | methyl tert butyl ether | | ----------NA---------- | | | | |
| 26 | | trans-1,2-dichloroethene | | ----------NA---------- | | | | |
| 27 | | hexane | | ----------NA---------- | | | | |
| 28 | | di-isopropyl ether | | ----------NA---------- | | | | |
| 29 | | ethyl tert-butyl ether | | ----------NA---------- | | | | |
| 30 | | 2-butanone | | ----------NA---------- | | | | |
| 31 | M | 1,1-dichloroethane | | ----------NA---------- | | | | |
| 32 | | chloroprene | | ----------NA---------- | | | | |
| 33 | | acrylonitrile | 0.411 | 0.377 | 8.3 | 95 | 0.00 | 3.24 |
| 34 | | vinyl acetate | | ----------NA---------- | | | | |
| 35 | | ethyl acetate | | ----------NA---------- | | | | |
| 36 | | 2,2-dichloropropane | | ----------NA---------- | | | | |
| 37 | | cis-1,2-dichloroethene | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD54302 **Sample:** VL10548-ICV10548
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348721.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | | propionitrile | | ----------NA---------- | | | | |
| 39 | | methyl acrylate | | ----------NA---------- | | | | |
| 40 | | bromochloromethane | | ----------NA---------- | | | | |
| 41 | | tetrahydrofuran | | ----------NA---------- | | | | |
| 42 | | chloroform | | ----------NA---------- | | | | |
| 43 | S | dibromofluoromethane (s) | 0.416 | 0.424 | -1.9 | 107 | 0.00 | 4.29 |
| 44 | | methacrylonitrile | | ----------NA---------- | | | | |
| 45 | | 1,1,1-trichloroethane | | ----------NA---------- | | | | |
| 46 | | cyclohexane | | ----------NA---------- | | | | |
| 47 | | 1,1-dichloropropene | | ----------NA---------- | | | | |
| 48 | | carbon tetrachloride | | ----------NA---------- | | | | |
| 49 | | isopropyl acetate | | ----------NA---------- | | | | |
| 50 | | tert amyl alcohol | | ----------NA---------- | | | | |
| 51 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 109 | 0.00 | 4.85 |
| 52 | S | 1,2-dichloroethane-d4 (s) | 0.342 | 0.359 | -5.0 | 120 | 0.00 | 4.54 |
| 53 | | tert-amyl methyl ether | | ----------NA---------- | | | | |
| 54 | | 2,2,4-trimethylpentane | | ----------NA---------- | | | | |
| 55 | | n-butyl alcohol | | ----------NA---------- | | | | |
| 56 | M | benzene | | ----------NA---------- | | | | |
| 57 | | heptane | | ----------NA---------- | | | | |
| 58 | | 1,2-dichloroethane | | ----------NA---------- | | | | |
| 59 | | trichloroethene | | ----------NA---------- | | | | |
| 60 | | ethyl acrylate | | ----------NA---------- | | | | |
| 61 | | 2-nitropropane | | ----------NA---------- | | | | |
| 62 | | 2-chloroethyl vinyl ether | | ----------NA---------- | | | | |
| 63 | | methyl methacrylate | | ----------NA---------- | | | | |
| 64 | | 1,2-dichloropropane | | ----------NA---------- | | | | |
| 65 | | methylcyclohexane | | ----------NA---------- | | | | |
| 66 | | dibromomethane | | ----------NA---------- | | | | |
| 67 | | bromodichloromethane | | ----------NA---------- | | | | |
| 68 | | cis-1,3-dichloropropene | | ----------NA---------- | | | | |
| 69 | | epichlorohydrin | | ----------NA---------- | | | | |
| 70 | | 4-methyl-2-pentanone | | ----------NA---------- | | | | |
| 71 | | 3-methyl-1-butanol | | ----------NA---------- | | | | |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 7.24 |
| 73 | S | toluene-d8 (s) | 1.324 | 1.395 | -5.4 | 113 | 0.00 | 5.99 |
| 74 | | toluene | | ----------NA---------- | | | | |
| 75 | | trans-1,3-dichloropropene | | ----------NA---------- | | | | |
| 76 | | ethyl methacrylate | | ----------NA---------- | | | | |
| 77 | | 1,1,2-trichloroethane | | ----------NA---------- | | | | |
| 78 | | 2-hexanone | | ----------NA---------- | | | | |
| 79 | | tetrachloroethene | 0.460 | 0.494 | -7.4 | 114 | 0.00 | 6.48 |
| 80 | | 1,3-dichloropropane | | ----------NA---------- | | | | |
| 81 | | butyl acetate | | ----------NA---------- | | | | |
| 82 | | dibromochloromethane | | ----------NA---------- | | | | |
| 83 | | 1,2-dibromoethane | | ----------NA---------- | | | | |
| 84 | | n-butyl ether | | ----------NA---------- | | | | |
| 85 | | chlorobenzene | | ----------NA---------- | | | | |
| 86 | | 1,1,1,2-tetrachloroethane | | ----------NA---------- | | | | |
| 87 | | ethylbenzene | | ----------NA---------- | | | | |
| 88 | | m,p-xylene | | ----------NA---------- | | | | |
| 89 | | o-xylene | | ----------NA---------- | | | | |
| 90 | | butyl acrylate | | ----------NA---------- | | | | |
| 91 | | styrene | | ----------NA---------- | | | | |
| 92 | | bromoform | | ----------NA---------- | | | | |
| 93 | | isopropylbenzene | | ----------NA---------- | | | | |
| 94 | | cis-1,4-dichloro-2-butene | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD54302 **Sample:** VL10548-ICV10548
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348721.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 95 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 112 | 0.00 | 9.43 |
| 96 | S | 4-bromofluorobenzene (s) | 1.150 | 1.112 | 3.3 | 105 | 0.00 | 8.32 |
| 97 | | bromobenzene | | ----------NA---------- | | | | |
| 98 | | 1,1,2,2-tetrachloroethane | | ----------NA---------- | | | | |
| 99 | | trans-1,4-dichloro-2-bute | | ----------NA---------- | | | | |
| 100 | | 1,2,3-trichloropropane | | ----------NA---------- | | | | |
| 101 | | n-propylbenzene | | ----------NA---------- | | | | |
| 102 | | 2-chlorotoluene | | ----------NA---------- | | | | |
| 103 | | 4-chlorotoluene | | ----------NA---------- | | | | |
| 104 | | 1,3,5-trimethylbenzene | | ----------NA---------- | | | | |
| 105 | | tert-butylbenzene | | ----------NA---------- | | | | |
| 106 | | 1,2,4-trimethylbenzene | | ----------NA---------- | | | | |
| 107 | | sec-butylbenzene | | ----------NA---------- | | | | |
| 108 | | 1,3-dichlorobenzene | | ----------NA---------- | | | | |
| 109 | | p-isopropyltoluene | | ----------NA---------- | | | | |
| 110 | | 1,4-dichlorobenzene | | ----------NA---------- | | | | |
| 111 | | 1,2,3-trimethylbenzene | 3.533 | 3.616 | -2.3 | 117 | 0.00 | 9.48 |
| 112 | | 1,2-dichlorobenzene | | ----------NA---------- | | | | |
| 113 | | n-butylbenzene | | ----------NA---------- | | | | |
| 114 | | 1,2-dibromo-3-chloropropa | | ----------NA---------- | | | | |
| 115 | | 1,3,5-trichlorobenzene | | ----------NA---------- | | | | |
| 116 | | 1,2,4-trichlorobenzene | | ----------NA---------- | | | | |
| 117 | | hexachlorobutadiene | | ----------NA---------- | | | | |
| 118 | | naphthalene | | ----------NA---------- | | | | |
| 119 | | 1,2,3-trichlorobenzene | | ----------NA---------- | | | | |
| 120 | | hexachloroethane | | ----------NA---------- | | | | |
| 121 | | benzyl chloride | | ----------NA---------- | | | | |
| 122 | | 2-methylnaphthalene | | ----------NA---------- | | | | |
| 123 | | pentafluorobenzene(a) | 1.000 | 1.000 | 0.0 | 110 | 0.00 | 4.28 |
| 124 | | Freon 142B | | ----------NA---------- | | | | |
| 125 | | vinyl bromide | | ----------NA---------- | | | | |
| 126 | | allyl chloride | | ----------NA---------- | | | | |
| 127 | | 1,4-dichlorobenzene-d4(a) | 1.000 | 1.000 | 0.0 | 112 | 0.00 | 9.43 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L348715.D ML10548.M Thu Oct 27 19:08:29 2022 1

# Continuing Calibration Summary



**Job Number:** JD54302 **Sample:** VL10552-CC10548
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348799.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\An...022\vl10552\l348799.d Vial: 2
Acq On : 29 Oct 2022 10:33 am Operator: BridgetK
Sample : cc10548-20 Inst : GCMSL
Misc : MS63359,VL10552,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10548.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Fri Oct 28 18:07:24 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 97 | 0.00 | 3.06 |
| 2 | | 1,4-dioxane | 0.099 | 0.077 | 22.2# | 79 | 0.00 | 5.28 |
| 3 | | ethanol | 0.135 | 0.119 | 11.9 | 88 | 0.00 | 2.49 |
| 4 | M | tertiary butyl alcohol | 1.497 | 1.409 | 5.9 | 92 | 0.00 | 3.12 |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 109 | 0.00 | 4.28 |
| 6 | | chlorodifluoromethane | 0.973 | 0.846 | 13.1 | 95 | 0.00 | 1.65 |
| 7 | | dichlorodifluoromethane | 1.137 | 0.903 | 20.6# | 83 | 0.00 | 1.64 |
| 8 | | chloromethane | 0.873 | 0.723 | 17.2 | 90 | 0.00 | 1.80 |
| 9 | | vinyl chloride | 0.904 | 0.737 | 18.5 | 86 | 0.00 | 1.88 |
| 10 | | 1,3-butadiene | 0.654 | 0.822 | -25.7# | 130 | 0.00 | 1.91 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 11 | | bromomethane | 20.000 | 24.801 | -24.0# | 156 | 0.00 | 2.14 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 12 | | chloroethane | 0.469 | 0.398 | 15.1 | 90 | 0.00 | 2.22 |
| 13 | | trichlorofluoromethane | 0.973 | 0.859 | 11.7 | 92 | 0.00 | 2.40 |
| 14 | | ethyl ether | 0.407 | 0.355 | 12.8 | 96 | 0.00 | 2.58 |
| 15 | | acrolein | 0.201 | 0.207 | -3.0 | 116 | 0.00 | 2.68 |
| 16 | | freon 113 | 0.463 | 0.404 | 12.7 | 92 | 0.00 | 2.75 |
| 17 | | 1,1-dichloroethene | 0.544 | 0.475 | 12.7 | 93 | 0.00 | 2.76 |
| 18 | | acetone | 0.134 | 0.104 | 22.4# | 83 | 0.00 | 2.77 |
| 19 | | acetonitrile | 0.073 | 0.069 | 5.5 | 100 | 0.00 | 2.96 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | | iodomethane | 20.000 | 21.151 | -5.8 | 143 | 0.00 | 2.87 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | | iso-butyl alcohol | 0.062 | 0.056 | 9.7 | 95 | 0.00 | 4.43 |
| 22 | | carbon disulfide | 1.849 | 1.532 | 17.1 | 94 | 0.00 | 2.93 |
| 23 | | methylene chloride | 0.612 | 0.543 | 11.3 | 98 | 0.00 | 3.09 |
| 24 | | methyl acetate | 0.175 | 0.160 | 8.6 | 93 | 0.00 | 2.98 |
| 25 | | methyl tert butyl ether | 1.841 | 1.787 | 2.9 | 99 | 0.00 | 3.26 |
| 26 | | trans-1,2-dichloroethene | 0.574 | 0.506 | 11.8 | 95 | 0.00 | 3.27 |
| 27 | | hexane | 1.062 | 0.928 | 12.6 | 98 | 0.00 | 3.45 |
| 28 | | di-isopropyl ether | 2.071 | 1.958 | 5.5 | 98 | 0.00 | 3.56 |
| 29 | | ethyl tert-butyl ether | 2.120 | 1.992 | 6.0 | 100 | 0.00 | 3.81 |
| 30 | | 2-butanone | 0.143 | 0.130 | 9.1 | 95 | 0.00 | 3.93 |
| 31 | M | 1,1-dichloroethane | 1.097 | 1.012 | 7.7 | 98 | 0.00 | 3.57 |
| 32 | | chloroprene | 0.990 | 0.842 | 14.9 | 92 | 0.00 | 3.62 |
| 33 | | acrylonitrile | 0.411 | 0.360 | 12.4 | 94 | 0.00 | 3.24 |

# Continuing Calibration Summary

**Job Number:** JD54302 **Sample:** VL10552-CC10548
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348799.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 34 | | vinyl acetate | 0.157 | 0.158 | -0.6 | 101 | 0.00 | 3.54 |
| 35 | | ethyl acetate | 0.175 | 0.161 | 8.0 | 101 | 0.00 | 3.94 |
| 36 | | 2,2-dichloropropane | 0.877 | 0.833 | 5.0 | 102 | 0.00 | 3.97 |
| 37 | | cis-1,2-dichloroethene | 0.619 | 0.537 | 13.2 | 94 | 0.00 | 3.96 |
| 38 | | propionitrile | 0.152 | 0.144 | 5.3 | 98 | 0.00 | 3.98 |
| 39 | | methyl acrylate | 0.147 | 0.135 | 8.2 | 104 | 0.00 | 3.98 |
| 40 | | bromochloromethane | 0.273 | 0.251 | 8.1 | 97 | 0.00 | 4.12 |
| 41 | | tetrahydrofuran | 0.160 | 0.151 | 5.6 | 101 | 0.00 | 4.14 |
| 42 | | chloroform | 1.070 | 0.939 | 12.2 | 97 | 0.00 | 4.18 |
| 43 | S | dibromofluoromethane (s) | 0.416 | 0.408 | 1.9 | 105 | 0.00 | 4.29 |
| 44 | | methacrylonitrile | 0.418 | 0.376 | 10.0 | 101 | 0.00 | 4.09 |
| 45 | | 1,1,1-trichloroethane | 0.891 | 0.745 | 16.4 | 92 | 0.00 | 4.32 |
| 46 | | cyclohexane | 0.930 | 0.696 | 25.2# | 80 | 0.00 | 4.38 |
| 47 | | 1,1-dichloropropene | 0.807 | 0.692 | 14.3 | 93 | 0.00 | 4.43 |
| 48 | | carbon tetrachloride | 0.710 | 0.602 | 15.2 | 91 | 0.00 | 4.43 |
| 49 | | isopropyl acetate | 0.182 | 0.180 | 1.1 | 102 | 0.00 | 4.55 |
| 50 | | tert amyl alcohol | 0.061 | 0.052 | 14.8 | 91 | 0.00 | 4.53 |
| 51 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 4.85 |
| 52 | S | 1,2-dichloroethane-d4 (s) | 0.342 | 0.358 | -4.7 | 106 | 0.00 | 4.55 |
| 53 | | tert-amyl methyl ether | 1.252 | 1.226 | 2.1 | 98 | 0.00 | 4.64 |
| 54 | | 2,2,4-trimethylpentane | 1.388 | 1.309 | 5.7 | 95 | 0.00 | 4.64 |
| 55 | | n-butyl alcohol | 0.027 | 0.024 | 11.1 | 89 | 0.00 | 4.91 |
| 56 | M | benzene | 1.644 | 1.463 | 11.0 | 93 | 0.00 | 4.58 |
| 57 | | heptane | 0.329 | 0.301 | 8.5 | 100 | 0.00 | 4.75 |
| 58 | | 1,2-dichloroethane | 0.539 | 0.529 | 1.9 | 101 | 0.00 | 4.60 |
| 59 | | trichloroethene | 0.423 | 0.373 | 11.8 | 93 | 0.00 | 5.05 |
| 60 | | ethyl acrylate | 0.798 | 0.811 | -1.6 | 101 | 0.00 | 5.06 |
| 61 | | 2-nitropropane | 0.197 | 0.183 | 7.1 | 98 | 0.00 | 5.59 |
| 62 | | 2-chloroethyl vinyl ether | 0.314 | 0.303 | 3.5 | 100 | 0.00 | 5.62 |
| 63 | | methyl methacrylate | 0.156 | 0.161 | -3.2 | 104 | 0.00 | 5.24 |
| 64 | | 1,2-dichloropropane | 0.444 | 0.422 | 5.0 | 98 | 0.00 | 5.24 |
| 65 | | methylcyclohexane | 0.757 | 0.689 | 9.0 | 95 | 0.00 | 5.23 |
| 66 | | dibromomethane | 0.257 | 0.242 | 5.8 | 100 | 0.00 | 5.31 |
| 67 | | bromodichloromethane | 0.594 | 0.534 | 10.1 | 96 | 0.00 | 5.43 |
| 68 | | cis-1,3-dichloropropene | 0.713 | 0.653 | 8.4 | 93 | 0.00 | 5.77 |
| 69 | | epichlorohydrin | 0.088 | 0.084 | 4.5 | 100 | 0.00 | 5.67 |
| 70 | | 4-methyl-2-pentanone | 0.286 | 0.280 | 2.1 | 101 | 0.00 | 5.86 |
| 71 | | 3-methyl-1-butanol | 0.026 | 0.022 | 15.4 | 87 | 0.00 | 5.89 |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 7.24 |
| 73 | S | toluene-d8 (s) | 1.324 | 1.280 | 3.3 | 104 | 0.00 | 6.00 |
| 74 | | toluene | 1.111 | 0.965 | 13.1 | 95 | 0.00 | 6.05 |
| 75 | | trans-1,3-dichloropropene | 0.701 | 0.645 | 8.0 | 97 | 0.00 | 6.22 |
| 76 | | ethyl methacrylate | 0.720 | 0.716 | 0.6 | 102 | 0.00 | 6.24 |
| 77 | | 1,1,2-trichloroethane | 0.373 | 0.358 | 4.0 | 101 | 0.00 | 6.39 |
| 78 | | 2-hexanone | 0.335 | 0.316 | 5.7 | 98 | 0.00 | 6.56 |
| 79 | | tetrachloroethene | 0.460 | 0.414 | 10.0 | 97 | 0.00 | 6.49 |
| 80 | | 1,3-dichloropropane | 0.739 | 0.698 | 5.5 | 99 | 0.00 | 6.53 |
| 81 | | butyl acetate | 0.459 | 0.442 | 3.7 | 98 | 0.00 | 6.64 |
| 82 | | dibromochloromethane | 0.457 | 0.413 | 9.6 | 96 | 0.00 | 6.72 |
| 83 | | 1,2-dibromoethane | 0.462 | 0.446 | 3.5 | 105 | 0.00 | 6.85 |
| 84 | | n-butyl ether | 1.942 | 1.880 | 3.2 | 95 | 0.00 | 7.31 |
| 85 | | chlorobenzene | 1.122 | 1.022 | 8.9 | 97 | 0.00 | 7.27 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.380 | 0.349 | 8.2 | 96 | 0.00 | 7.34 |
| 87 | | ethylbenzene | 2.010 | 1.762 | 12.3 | 93 | 0.00 | 7.34 |
| 88 | | m,p-xylene | 0.783 | 0.690 | 11.9 | 96 | 0.00 | 7.46 |
| 89 | | o-xylene | 0.773 | 0.698 | 9.7 | 97 | 0.00 | 7.81 |
| 90 | | butyl acrylate | 1.103 | 1.099 | 0.4 | 99 | 0.00 | 7.73 |
| 91 | | styrene | 1.275 | 1.174 | 7.9 | 97 | 0.00 | 7.83 |

# Continuing Calibration Summary

**Job Number:** JD54302 **Sample:** VL10552-CC10548
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348799.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 92 | | bromoform | 0.346 | 0.300 | 13.3 | 94 | 0.00 | 8.01 |
| 93 | | isopropylbenzene | 2.015 | 1.816 | 9.9 | 95 | 0.00 | 8.15 |
| 94 | | cis-1,4-dichloro-2-butene | 0.205 | 0.128 | 37.6# | 62 | 0.00 | 8.20 |
| 95 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 9.43 |
| 96 | S | 4-bromofluorobenzene (s) | 1.150 | 1.181 | -2.7 | 106 | 0.00 | 8.32 |
| 97 | | bromobenzene | 1.083 | 1.035 | 4.4 | 98 | 0.00 | 8.47 |
| 98 | | 1,1,2,2-tetrachloroethane | 1.668 | 1.633 | 2.1 | 103 | 0.00 | 8.43 |
| 99 | | trans-1,4-dichloro-2-bute | 0.421 | 0.276 | 34.4# | 67 | 0.00 | 8.47 |
| 100 | | 1,2,3-trichloropropane | 0.450 | 0.433 | 3.8 | 99 | 0.00 | 8.50 |
| 101 | | n-propylbenzene | 5.201 | 4.904 | 5.7 | 98 | 0.00 | 8.54 |
| 102 | | 2-chlorotoluene | 1.029 | 0.946 | 8.1 | 96 | 0.00 | 8.64 |
| 103 | | 4-chlorotoluene | 1.031 | 0.961 | 6.8 | 99 | 0.00 | 8.75 |
| 104 | | 1,3,5-trimethylbenzene | 3.769 | 3.429 | 9.0 | 96 | 0.00 | 8.71 |
| 105 | | tert-butylbenzene | 3.208 | 2.877 | 10.3 | 94 | 0.00 | 9.02 |
| 106 | | 1,2,4-trimethylbenzene | 3.686 | 3.461 | 6.1 | 97 | 0.00 | 9.07 |
| 107 | | sec-butylbenzene | 4.688 | 4.335 | 7.5 | 96 | 0.00 | 9.23 |
| 108 | | 1,3-dichlorobenzene | 1.887 | 1.801 | 4.6 | 96 | 0.00 | 9.36 |
| 109 | | p-isopropyltoluene | 3.635 | 3.310 | 8.9 | 96 | 0.00 | 9.38 |
| 110 | | 1,4-dichlorobenzene | 1.847 | 1.659 | 10.2 | 96 | 0.00 | 9.46 |
| 111 | | 1,2,3-trimethylbenzene | 3.533 | 3.291 | 6.8 | 95 | 0.00 | 9.48 |
| 112 | | 1,2-dichlorobenzene | 1.783 | 1.703 | 4.5 | 99 | 0.00 | 9.81 |
| 113 | | n-butylbenzene | 1.852 | 1.751 | 5.5 | 97 | 0.00 | 9.78 |
| 114 | | 1,2-dibromo-3-chloropropa | 0.429 | 0.388 | 9.6 | 97 | 0.00 | 10.57 |
| 115 | | 1,3,5-trichlorobenzene | 1.258 | 1.256 | 0.2 | 100 | 0.00 | 10.76 |
| 116 | | 1,2,4-trichlorobenzene | 1.049 | 1.054 | -0.5 | 101 | 0.00 | 11.39 |
| 117 | | hexachlorobutadiene | 0.467 | 0.439 | 6.0 | 97 | 0.00 | 11.53 |
| 118 | | naphthalene | 3.588 | 3.462 | 3.5 | 96 | 0.00 | 11.66 |
| 119 | | 1,2,3-trichlorobenzene | 1.003 | 0.960 | 4.3 | 99 | 0.00 | 11.88 |
| 120 | | hexachloroethane | 0.685 | 0.633 | 7.6 | 94 | 0.00 | 10.08 |
| 121 | | benzyl chloride | 2.843 | 2.934 | -3.2 | 107 | 0.00 | 9.56 |
| 122 | | 2-methylnaphthalene | 1.788 | 1.425 | 20.3# | 90 | 0.00 | 12.78 |
| 123 | | pentafluorobenzene(a) | 1.000 | 1.000 | 0.0 | 100 | 0.00 | 4.28 |
| 124 | | Freon 142B | | ----------NA---------- | | | | |
| 125 | | vinyl bromide | | ----------NA---------- | | | | |
| 126 | | allyl chloride | | ----------NA---------- | | | | |
| 127 | | 1,4-dichlorobenzene-d4(a) | 1.000 | 1.000 | 0.0 | 93 | 0.00 | 9.43 |
| 128 | | pentachloroethane | | ----------NA---------- | | | | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L348714.D ML10548.M Tue Nov 01 12:45:30 2022

# Run Sequence Report



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V2A9596 | **Method:** SW846 8260D | **Instrument ID:** GCMS2A |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2A9596-BFB | 2A220735.D | 10/13/22 17:42 | n/a | BFB Tune |
| V2A9596-IC9596 | 2A220736.D | 10/13/22 18:18 | n/a | Initial cal 0.2 |
| V2A9596-IC9596 | 2A220737.D | 10/13/22 18:37 | n/a | Initial cal 0.5 |
| V2A9596-IC9596 | 2A220738.D | 10/13/22 19:06 | n/a | Initial cal 1 |
| V2A9596-IC9596 | 2A220739.D | 10/13/22 19:34 | n/a | Initial cal 2 |
| V2A9596-IC9596 | 2A220740.D | 10/13/22 20:03 | n/a | Initial cal 4 |
| V2A9596-IC9596 | 2A220741.D | 10/13/22 20:32 | n/a | Initial cal 8 |
| V2A9596-IC9596 | 2A220742.D | 10/13/22 21:02 | n/a | Initial cal 20 |
| V2A9596-ICC9596 | 2A220743.D | 10/13/22 21:30 | n/a | Initial cal 50 |
| V2A9596-IC9596 | 2A220744.D | 10/13/22 22:00 | n/a | Initial cal 100 |
| V2A9596-IC9596 | 2A220745.D | 10/13/22 22:28 | n/a | Initial cal 200 |
| V2A9596-ICV9596 | 2A220748.D | 10/13/22 23:54 | n/a | Initial cal verification 50 |
| V2A9596-ICV9596 | 2A220749.D | 10/14/22 00:22 | n/a | Initial cal verification 50 |

# Run Sequence Report



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V2A9619 | **Method:** SW846 8260D | **Instrument ID:** GCMS2A |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2A9619-BFB | 2A221287.D | 10/27/22 22:49 | n/a | BFB Tune |
| V2A9619-CC9596 | 2A221287.D | 10/27/22 22:49 | n/a | Continuing cal 50 |
| V2A9619-BS | 2A221289.D | 10/27/22 23:46 | n/a | Blank Spike |
| V2A9619-MB | 2A221291.D | 10/28/22 00:43 | n/a | Method Blank |
| JD54302-5 | 2A221292.D | 10/28/22 01:11 | n/a | TRIP BLANK |
| JD54302-4 | 2A221293.D | 10/28/22 01:40 | n/a | WINF |
| ZZZZZZ | 2A221294.D | 10/28/22 02:08 | n/a | (unrelated sample) |
| ZZZZZZ | 2A221295.D | 10/28/22 02:37 | n/a | (unrelated sample) |
| JD54302-4MS | 2A221296.D | 10/28/22 03:05 | n/a | Matrix Spike |
| JD54302-4MSD | 2A221297.D | 10/28/22 03:33 | n/a | Matrix Spike Duplicate |
| ZZZZZZ | 2A221299.D | 10/28/22 04:30 | n/a | (unrelated sample) |
| ZZZZZZ | 2A221300.D | 10/28/22 04:58 | n/a | (unrelated sample) |
| ZZZZZZ | 2A221303.D | 10/28/22 06:23 | n/a | (unrelated sample) |
| ZZZZZZ | 2A221306.D | 10/28/22 07:48 | n/a | (unrelated sample) |
| ZZZZZZ | 2A221307.D | 10/28/22 08:16 | n/a | (unrelated sample) |
| JD54302-1 | 2A221308.D | 10/28/22 08:44 | n/a | WPOST GAC |

# Run Sequence Report



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** VL10548 | **Method:** SW846 8260D | **Instrument ID:** GCMSL |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| VL10548-BFB | L348707.D | 10/27/22 01:23 | n/a | BFB Tune |
| VL10548-IC10548 | L348708.D | 10/27/22 01:55 | n/a | Initial cal 0.2 |
| VL10548-IC10548 | L348709.D | 10/27/22 02:18 | n/a | Initial cal 0.5 |
| VL10548-IC10548 | L348710.D | 10/27/22 02:41 | n/a | Initial cal 1 |
| VL10548-IC10548 | L348711.D | 10/27/22 03:04 | n/a | Initial cal 2 |
| VL10548-IC10548 | L348712.D | 10/27/22 03:27 | n/a | Initial cal 4 |
| VL10548-IC10548 | L348713.D | 10/27/22 03:50 | n/a | Initial cal 8 |
| VL10548-IC10548 | L348714.D | 10/27/22 04:14 | n/a | Initial cal 20 |
| VL10548-ICC10548 | L348715.D | 10/27/22 04:37 | n/a | Initial cal 50 |
| VL10548-IC10548 | L348716.D | 10/27/22 05:00 | n/a | Initial cal 100 |
| VL10548-IC10548 | L348717.D | 10/27/22 05:23 | n/a | Initial cal 200 |
| VL10548-ICV10548 | L348720.D | 10/27/22 06:33 | n/a | Initial cal verification 50 |
| VL10548-ICV10548 | L348721.D | 10/27/22 06:56 | n/a | Initial cal verification 50 |

# Run Sequence Report



**Job Number:** JD54302
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** VL10552 | **Method:** SW846 8260D | **Instrument ID:** GCMSL |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| VL10552-BFB | L348799.D | 10/29/22 10:33 | n/a | BFB Tune |
| VL10552-CC10548 | L348799.D | 10/29/22 10:33 | n/a | Continuing cal 20 |
| VL10552-BS | L348801.D | 10/29/22 11:38 | n/a | Blank Spike |
| VL10552-MB | L348803.D | 10/29/22 12:24 | n/a | Method Blank |
| JD54302-4 | L348804.D | 10/29/22 12:47 | n/a | WINF |
| ZZZZZZ | L348805.D | 10/29/22 13:10 | n/a | (unrelated sample) |
| ZZZZZZ | L348806.D | 10/29/22 13:33 | n/a | (unrelated sample) |
| ZZZZZZ | L348807.D | 10/29/22 13:57 | n/a | (unrelated sample) |
| ZZZZZZ | L348808.D | 10/29/22 14:20 | n/a | (unrelated sample) |
| JD54108-4 | L348809.D | 10/29/22 14:43 | n/a | (used for QC only; not part of job JD54302) |
| ZZZZZZ | L348810.D | 10/29/22 15:06 | n/a | (unrelated sample) |
| JD54108-4MS | L348811.D | 10/29/22 15:29 | n/a | Matrix Spike |
| JD54108-4MSD | L348812.D | 10/29/22 15:52 | n/a | Matrix Spike Duplicate |
| ZZZZZZ | L348814.D | 10/29/22 16:38 | n/a | (unrelated sample) |
| ZZZZZZ | L348815.D | 10/29/22 17:01 | n/a | (unrelated sample) |
| JD54302-2 | L348816.D | 10/29/22 17:24 | n/a | WMID GAC |
| JD54302-3 | L348817.D | 10/29/22 17:48 | n/a | WAS |
| ZZZZZZ | L348818.D | 10/29/22 18:11 | n/a | (unrelated sample) |
| ZZZZZZ | L348819.D | 10/29/22 18:34 | n/a | (unrelated sample) |
| ZZZZZZ | L348820.D | 10/29/22 18:57 | n/a | (unrelated sample) |
| ZZZZZZ | L348821.D | 10/29/22 19:20 | n/a | (unrelated sample) |
| ZZZZZZ | L348822.D | 10/29/22 19:43 | n/a | (unrelated sample) |
| ZZZZZZ | L348823.D | 10/29/22 20:06 | n/a | (unrelated sample) |
| ZZZZZZ | L348824.D | 10/29/22 20:29 | n/a | (unrelated sample) |
| ZZZZZZ | L348825.D | 10/29/22 20:52 | n/a | (unrelated sample) |
| ZZZZZZ | L348826.D | 10/29/22 21:15 | n/a | (unrelated sample) |
| ZZZZZZ | L348827.D | 10/29/22 21:39 | n/a | (unrelated sample) |
| ZZZZZZ | L348828.D | 10/29/22 22:02 | n/a | (unrelated sample) |
| ZZZZZZ | L348829.D | 10/29/22 22:25 | n/a | (unrelated sample) |

## MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221308.d
Acq On : 28 Oct 2022 8:44 am
Operator : nickw
Sample : jd54302-1 Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 04:08:51 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

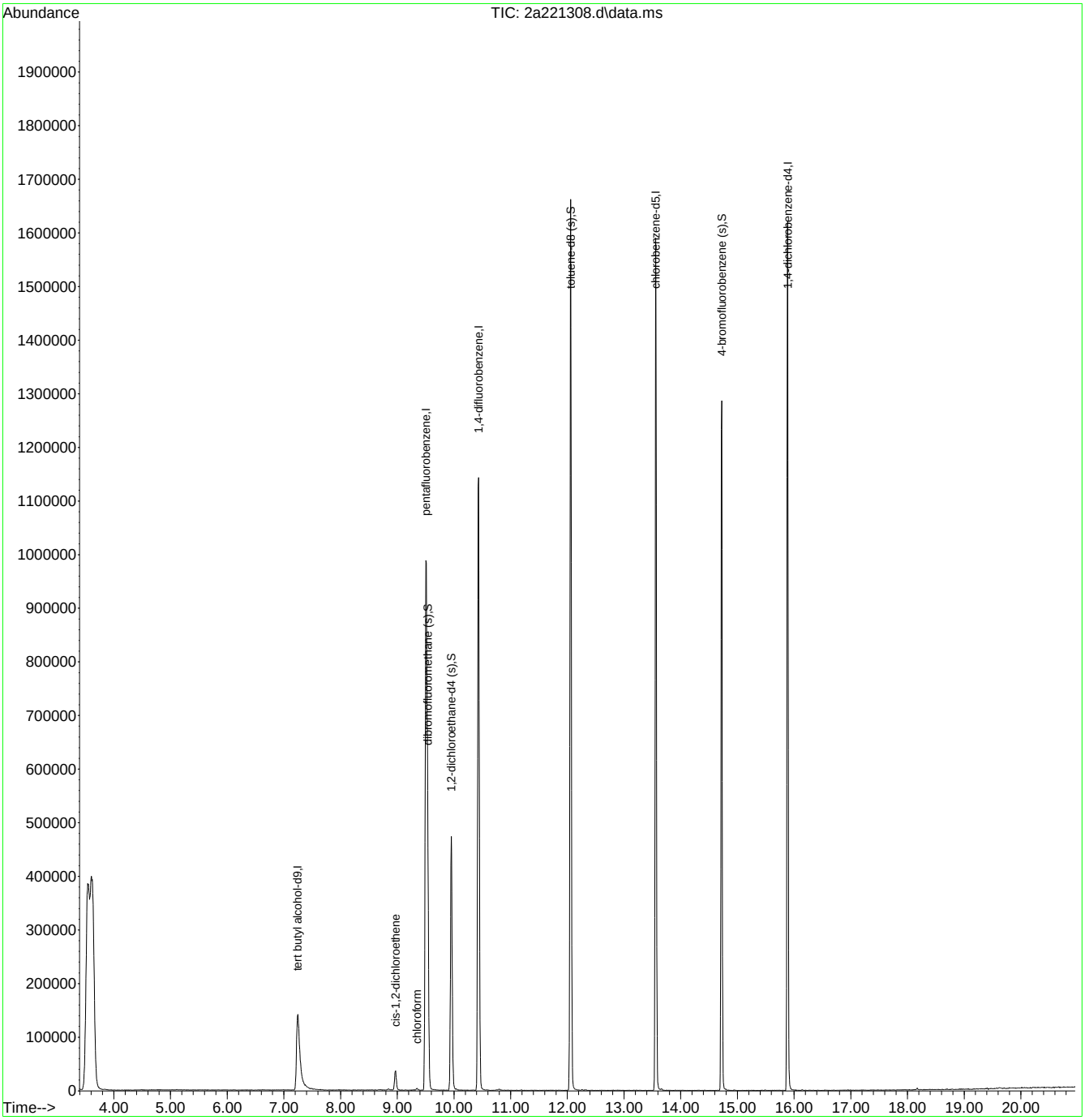
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.240 | 65 | 365080 | 500.00 | ug/L | -0.01 |
| 5) pentafluorobenzene | 9.505 | 168 | 769186 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.434 | 114 | 1031346 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.558 | 117 | 851185 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 430013 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 322723 | 47.58 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.16% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.951 | 65 | 347631 | 42.84 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 85.68% | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 1073745 | 49.58 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.16% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 385195 | 47.38 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.76% | | | |
| Target Compounds | | | | | | Qvalue |
| 36) cis-1,2-dichloroethene | 8.965 | 96 | 20424 | 2.98 | ug/L | 89 |
| 40) chloroform | 9.348 | 83 | 3809 | 0.33 | ug/L | 78 |

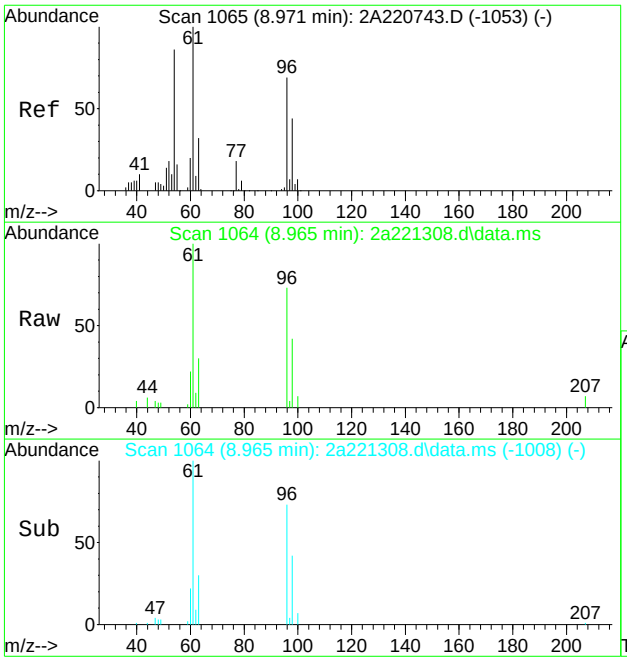
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221308.d
Acq On : 28 Oct 2022 8:44 am
Operator : nickw
Sample : jd54302-1 Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 04:08:51 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

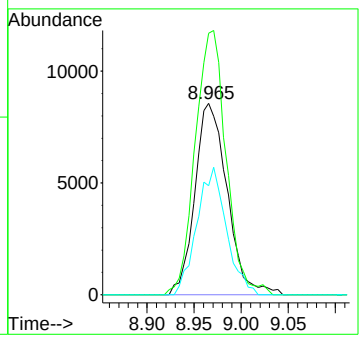


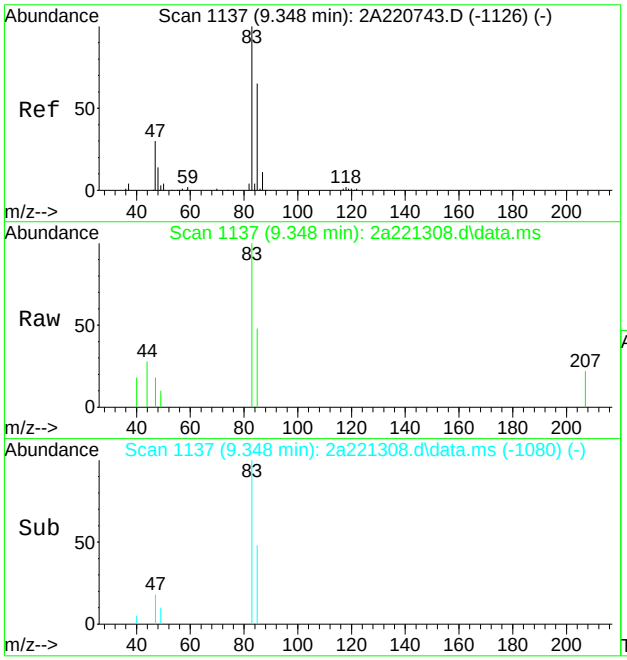



#36
cis-1,2-dichloroethene
Concen: 2.98 ug/L
RT: 8.965 min Scan# 1064
Delta R.T. -0.005 min
Lab File: 2a221308.d
Acq: 28 Oct 2022 8:44 am

Tgt Ion: 96 Resp: 20424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.6 | 122.8 | 182.8 |
| 98 | 57.0 | 33.3 | 93.3 |

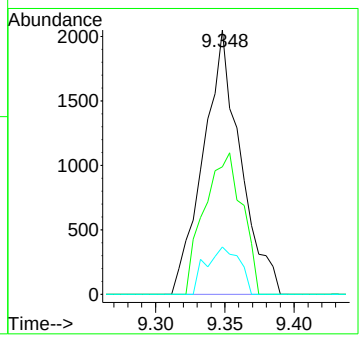



#40
chloroform
Concen: 0.33 ug/L
RT: 9.348 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 2a221308.d
Acq: 28 Oct 2022 8:44 am

Tgt Ion: 83 Resp: 3809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 48.2 | 34.5 | 94.5 |
| 47 | 17.9 | 0.7 | 60.7 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 1, 2022\vl10552\
Data File : l348816.d
Acq On : 29 Oct 2022 5:24 pm
Operator : BridgetK
Sample : jd54302-2 Inst : GCMSL
Misc : MS63421,VL10552,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Nov 01 15:10:30 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

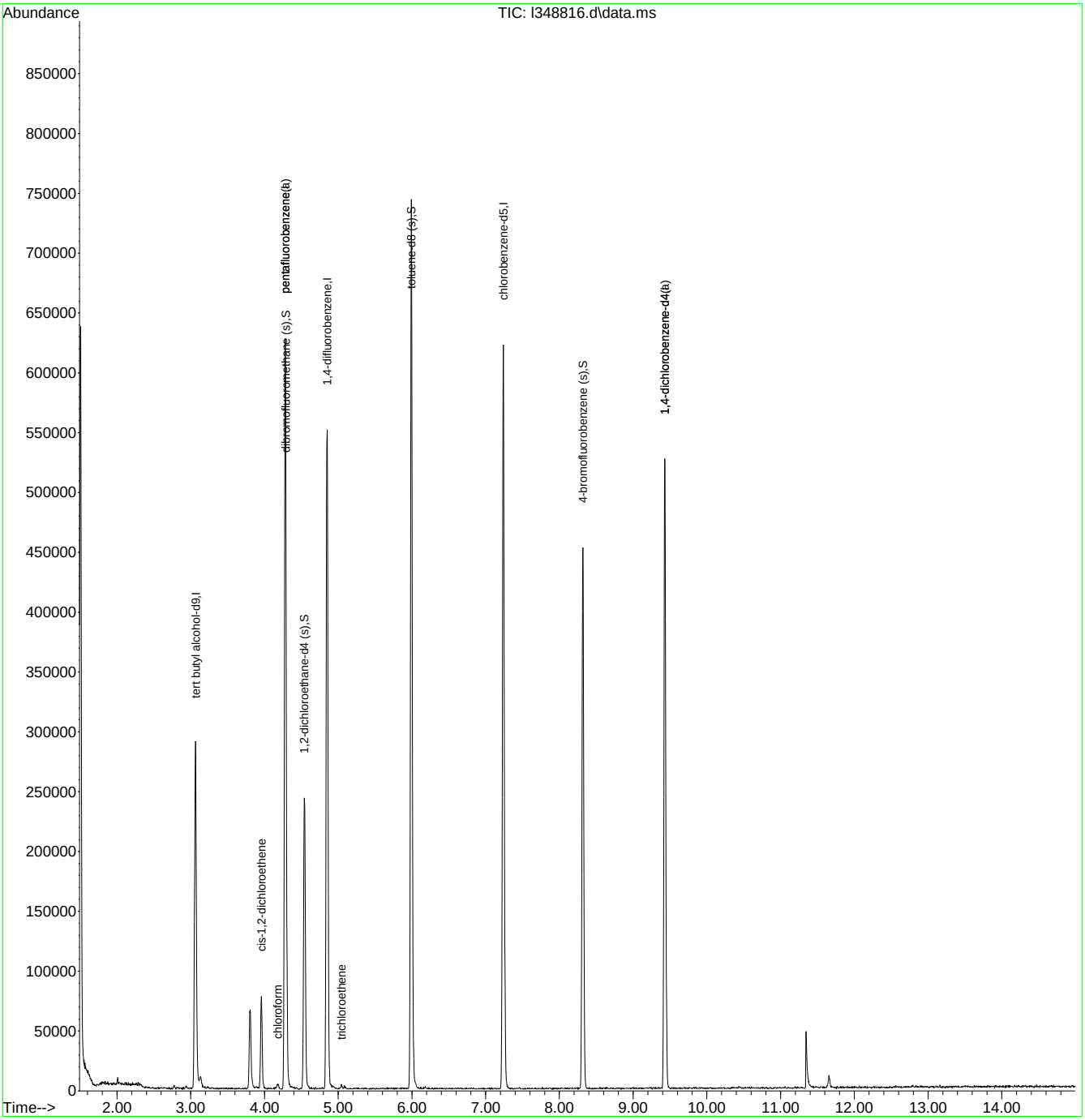
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.066 | 65 | 290742 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.282 | 168 | 271794 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.850 | 114 | 376162 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.241 | 117 | 330864 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.429 | 152 | 146132 | 50.00 | ug/L | 0.00 |
| 123) pentafluorobenzene(a) | 4.282 | 168 | 271528 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.429 | 152 | 146152 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.292 | 113 | 110066 | 48.65 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.30% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.542 | 65 | 141531 | 54.95 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 109.90% | | | |
| 73) toluene-d8 (s) | 5.993 | 98 | 459858 | 52.49 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.98% | | | |
| 96) 4-bromofluorobenzene (s) | 8.319 | 95 | 166930 | 49.67 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.34% | | | |
| Target Compounds | | | | | | Qvalue |
| 37) cis-1,2-dichloroethene | 3.958 | 96 | 27416 | 8.15 | ug/L | 88 |
| 42) chloroform | 4.180 | 83 | 3250 | 0.56 | ug/L | 86 |
| 59) trichloroethene | 5.046 | 95 | 1148 | 0.36 | ug/L # | 70 |

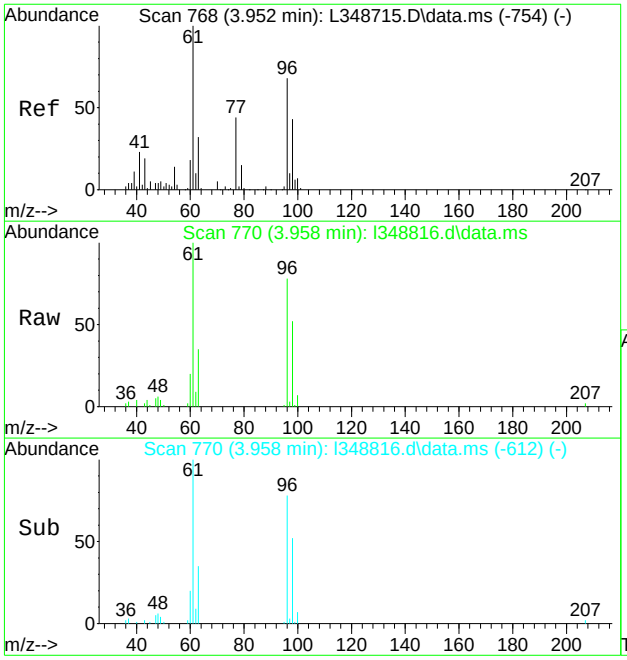
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 1, 2022\vl10552\
Data File : l348816.d
Acq On : 29 Oct 2022 5:24 pm
Operator : BridgetK
Sample : jd54302-2 Inst : GCMSL
Misc : MS63421,VL10552,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Nov 01 15:10:30 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

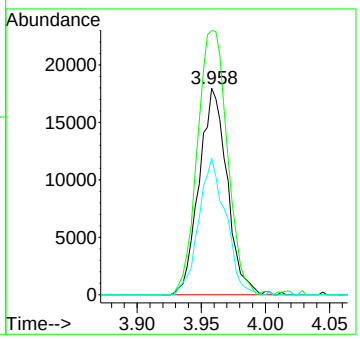


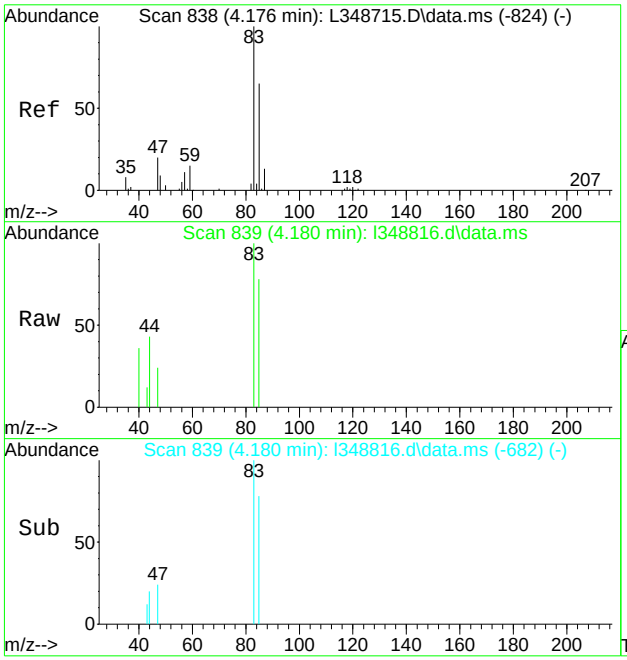



#37
cis-1,2-dichloroethene
Concen: 8.15 ug/L
RT: 3.958 min Scan# 770
Delta R.T. 0.006 min
Lab File: l348816.d
Acq: 29 Oct 2022 5:24 pm

Tgt Ion: 96 Resp: 27416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 127.9 | 116.7 | 176.7 |
| 98 | 66.2 | 32.6 | 92.6 |

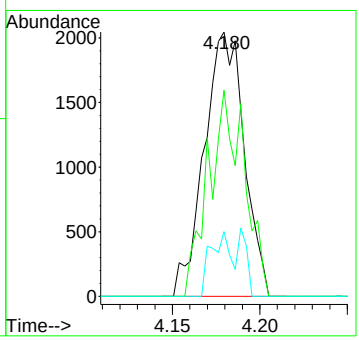


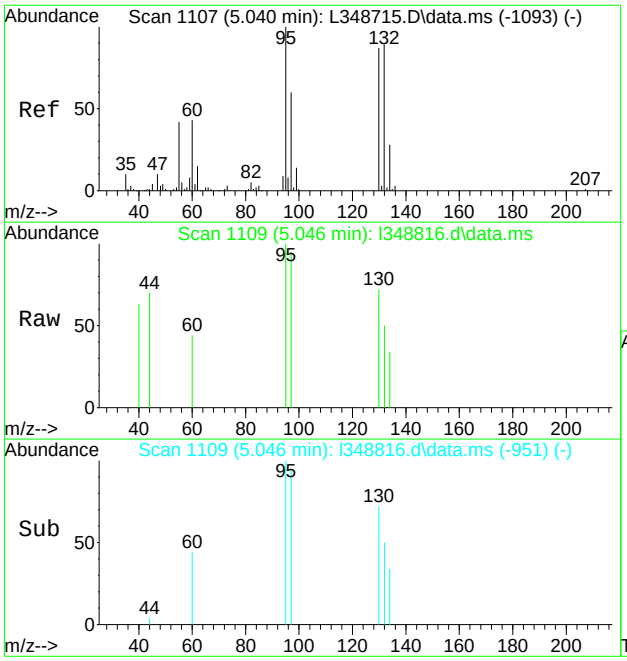




#42
chloroform
Concen: 0.56 ug/L
RT: 4.180 min Scan# 839
Delta R.T. 0.003 min
Lab File: l348816.d
Acq: 29 Oct 2022 5:24 pm

Tgt Ion: 83 Resp: 3250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 78.1 | 34.8 | 94.8 |
| 47 | 24.5 | 0.0 | 52.3 |

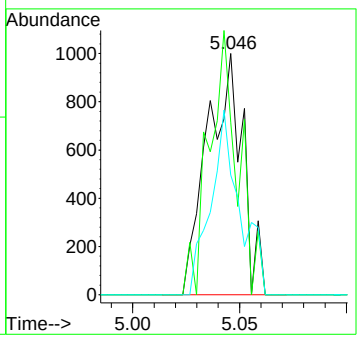





#59
trichloroethene
Concen: 0.36 ug/L
RT: 5.046 min Scan# 1109
Delta R.T. 0.006 min
Lab File: l348816.d
Acq: 29 Oct 2022 5:24 pm

Tgt Ion: 95 Resp: 1148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 71.6 | 57.2 | 117.2 |
| 132 | 49.6 | 58.8 | 118.8# |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 1, 2022\vl10552\
Data File : l348817.d
Acq On : 29 Oct 2022 5:48 pm
Operator : BridgetK
Sample : jd54302-3 Inst : GCMSL
Misc : MS63421,VL10552,5,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Nov 01 15:11:52 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

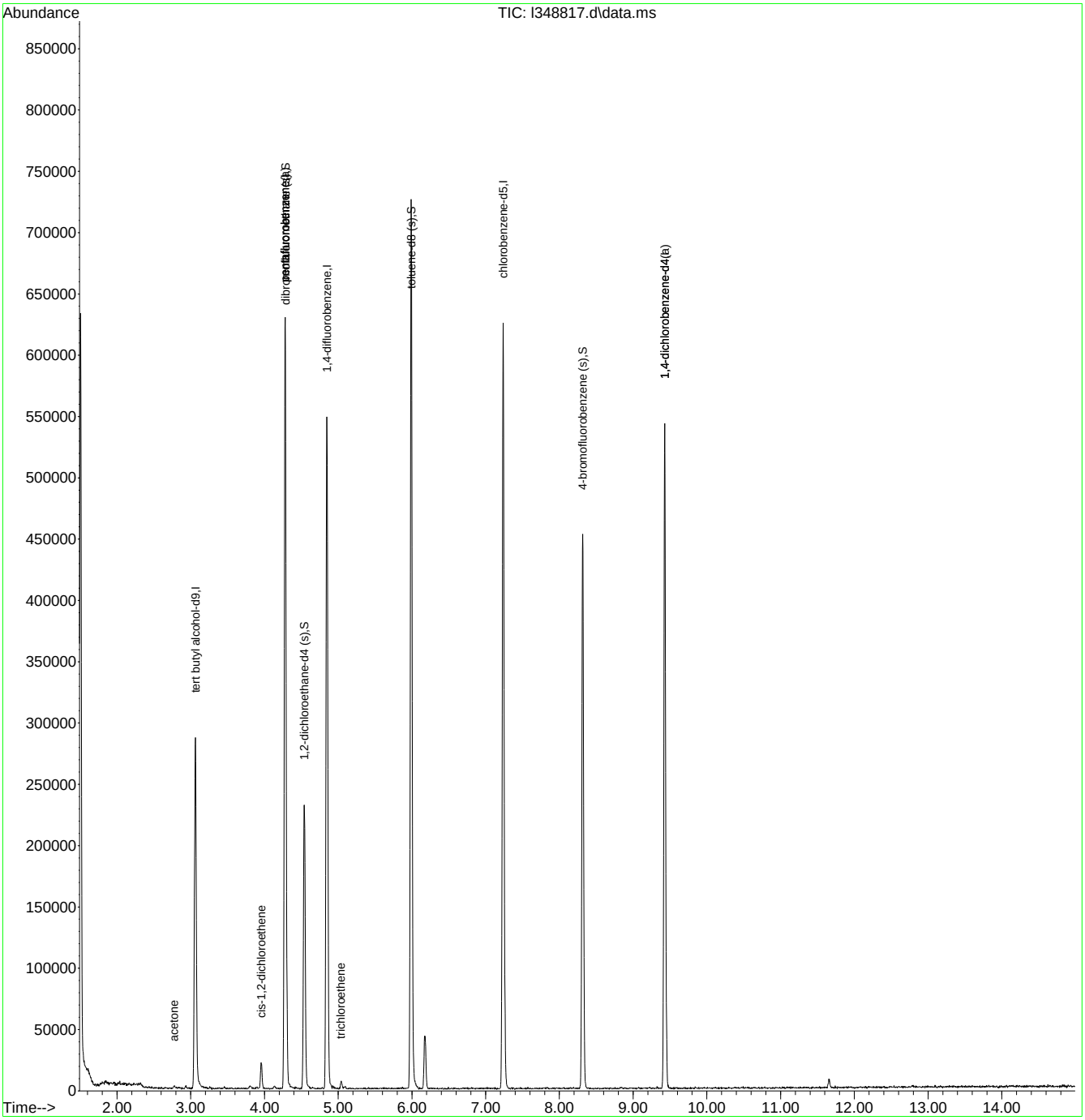
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.063 | 65 | 286526 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.279 | 168 | 267608 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.847 | 114 | 368037 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.238 | 117 | 334322 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.429 | 152 | 143706 | 50.00 | ug/L | 0.00 |
| 123) pentafluorobenzene(a) | 4.279 | 168 | 267608 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.429 | 152 | 143705 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.285 | 113 | 110832 | 49.76 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.52% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.542 | 65 | 136428 | 54.14 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 108.28% | | | |
| 73) toluene-d8 (s) | 5.989 | 98 | 459336 | 51.89 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.78% | | | |
| 96) 4-bromofluorobenzene (s) | 8.316 | 95 | 164096 | 49.65 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.30% | | | |
| Target Compounds | | | | | | Qvalue |
| 18) acetone | 2.771 | 58 | 739 | 1.03 | ug/L # | 14 |
| 37) cis-1,2-dichloroethene | 3.955 | 96 | 8000 | 2.42 | ug/L | 83 |
| 59) trichloroethene | 5.033 | 95 | 2125 | 0.68 | ug/L # | 62 |

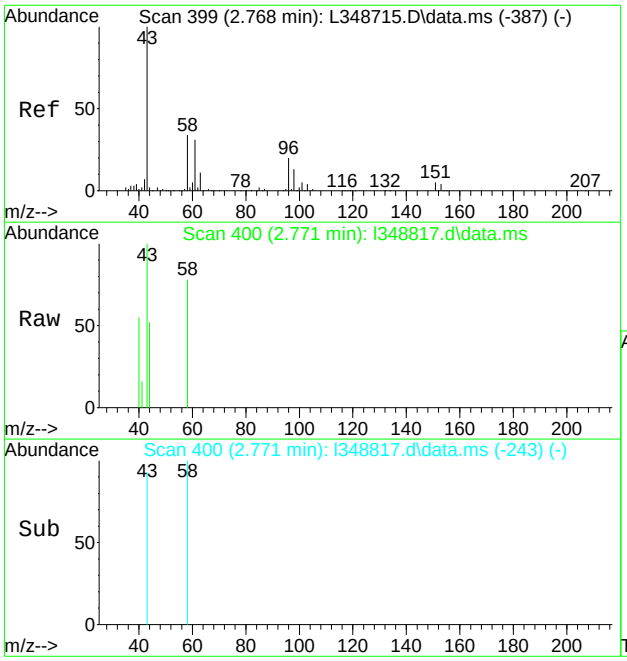
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 1, 2022\vl10552\
Data File : l348817.d
Acq On : 29 Oct 2022 5:48 pm
Operator : BridgetK
Sample : jd54302-3 Inst : GCMSL
Misc : MS63421,VL10552,5,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Nov 01 15:11:52 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

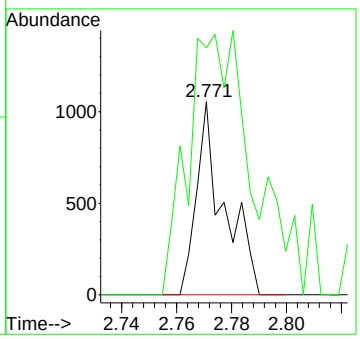


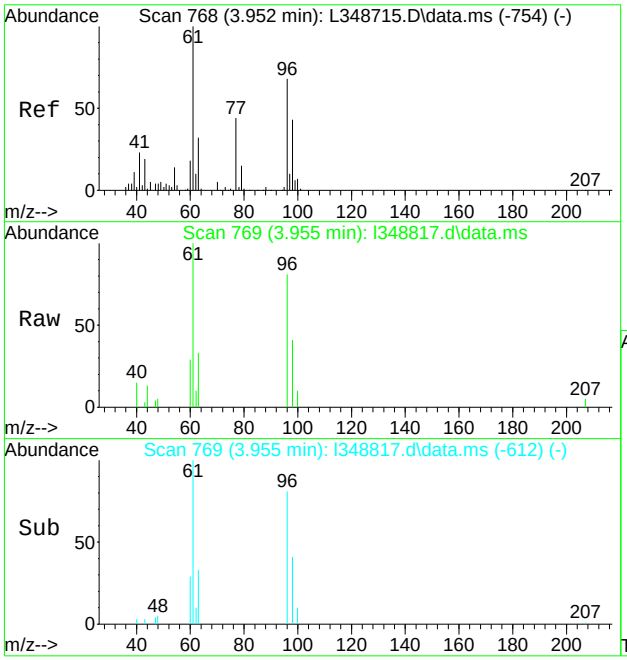



#18
acetone
Concen: 1.03 ug/L
RT: 2.771 min Scan# 400
Delta R.T. 0.003 min
Lab File: l348817.d
Acq: 29 Oct 2022 5:48 pm

Tgt Ion: 58 Resp: 739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 127.8 | 263.8 | 323.8# |

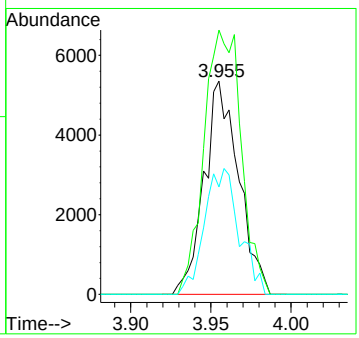


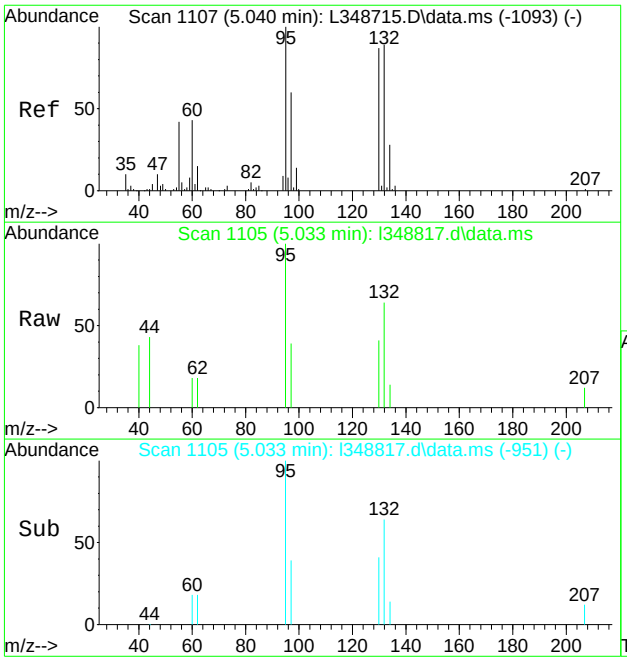




#37
cis-1,2-dichloroethene
Concen: 2.42 ug/L
RT: 3.955 min Scan# 769
Delta R.T. 0.003 min
Lab File: l348817.d
Acq: 29 Oct 2022 5:48 pm

Tgt Ion: 96 Resp: 8000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 124.0 | 116.7 | 176.7 |
| 98 | 50.3 | 32.6 | 92.6 |

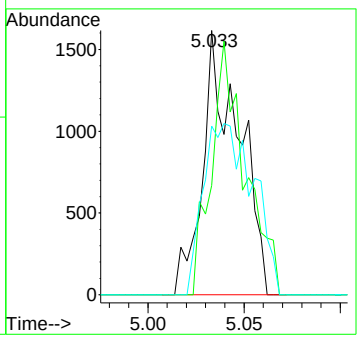





#59
trichloroethene
Concen: 0.68 ug/L
RT: 5.033 min Scan# 1105
Delta R.T. -0.007 min
Lab File: l348817.d
Acq: 29 Oct 2022 5:48 pm

Tgt Ion: 95 Resp: 2125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 41.4 | 57.2 | 117.2# |
| 132 | 63.8 | 58.8 | 118.8 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221293.d
Acq On : 28 Oct 2022 1:40 am
Operator : nickw
Sample : jd54302-4 Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 35 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:48:46 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

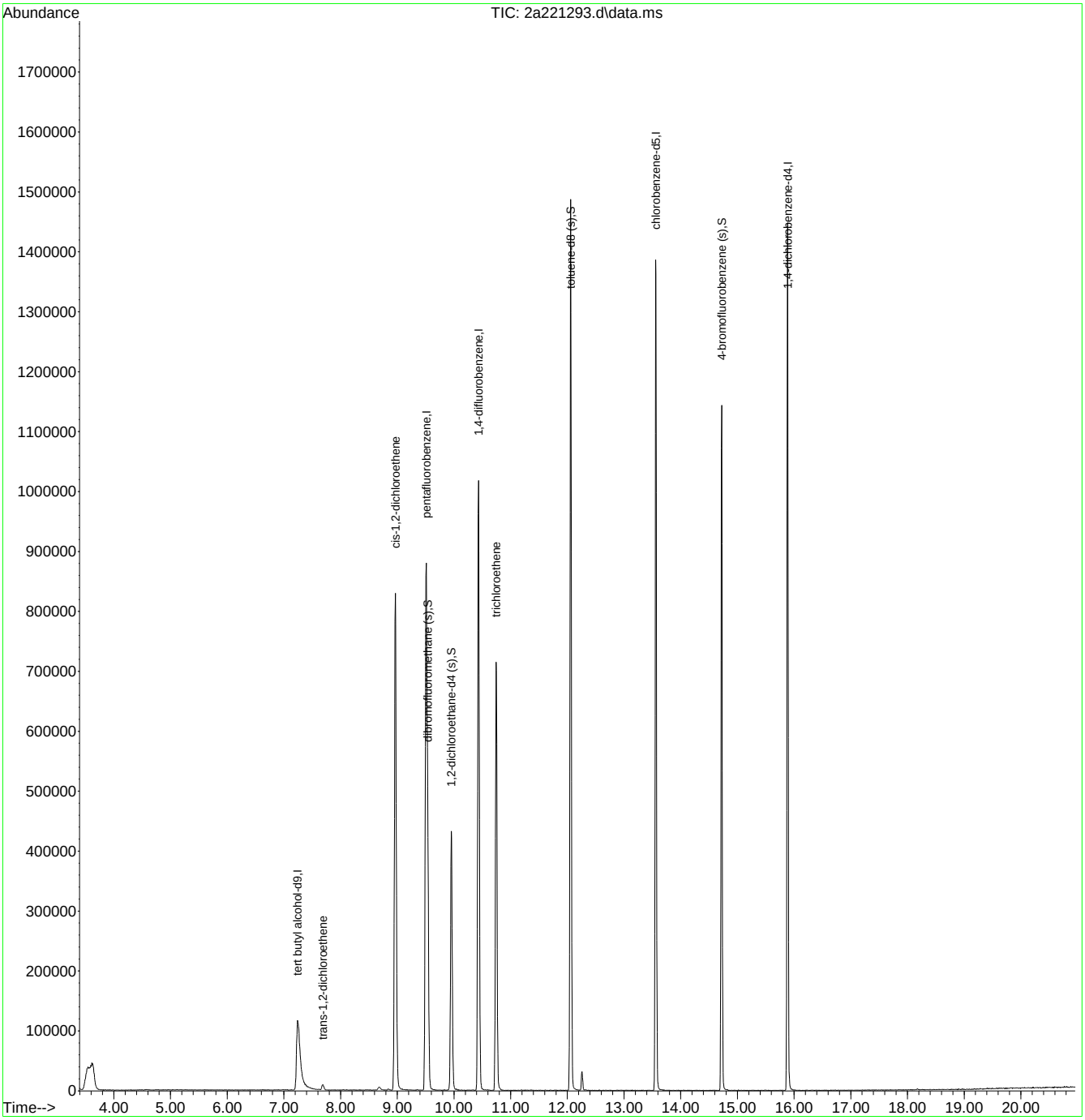
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.240 | 65 | 330645 | 500.00 | ug/L | -0.01 |
| 5) pentafluorobenzene | 9.511 | 168 | 662211 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.433 | 114 | 900265 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.564 | 117 | 739043 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 372515 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 287576 | 49.25 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.50% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.951 | 65 | 321453 | 45.38 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 90.76% | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 934518 | 49.70 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.40% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 337993 | 47.99 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.98% | | | |
| Target Compounds | | | | | | Qvalue |
| 25) trans-1,2-dichloroethene | 7.686 | 96 | 5309 | 0.97 | ug/L # | 83 |
| 36) cis-1,2-dichloroethene | 8.965 | 96 | 434027 | 73.46 | ug/L | 91 |
| 59) trichloroethene | 10.743 | 95 | 240106 | 42.12 | ug/L | 98 |

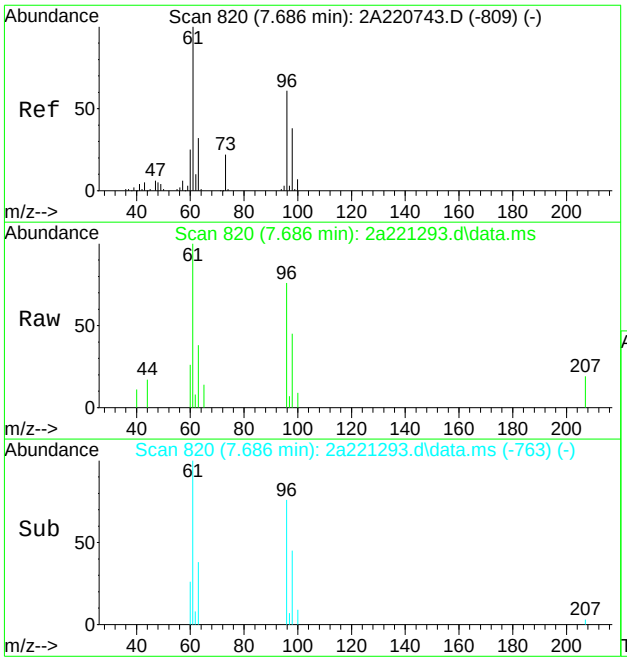
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221293.d
Acq On : 28 Oct 2022 1:40 am
Operator : nickw
Sample : jd54302-4 Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 35 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:48:46 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

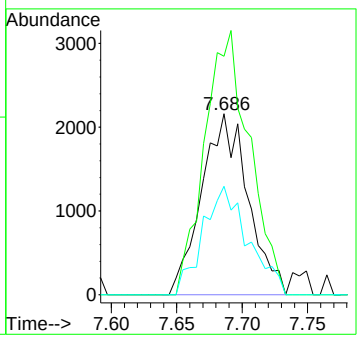


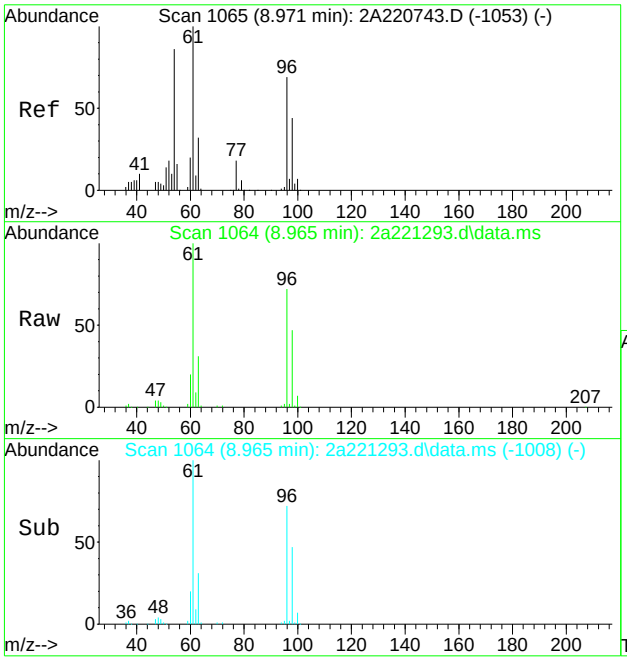



#25
trans-1,2-dichloroethene
Concen: 0.97 ug/L
RT: 7.686 min Scan# 820
Delta R.T. 0.000 min
Lab File: 2a221293.d
Acq: 28 Oct 2022 1:40 am

Tgt Ion: 96 Resp: 5309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.7 | 132.8 | 192.8# |
| 98 | 59.9 | 31.1 | 91.1 |

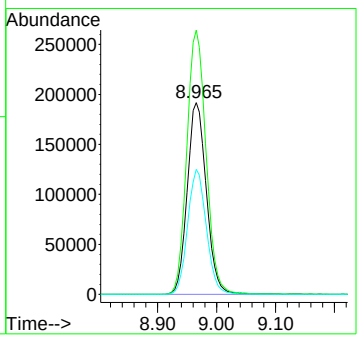


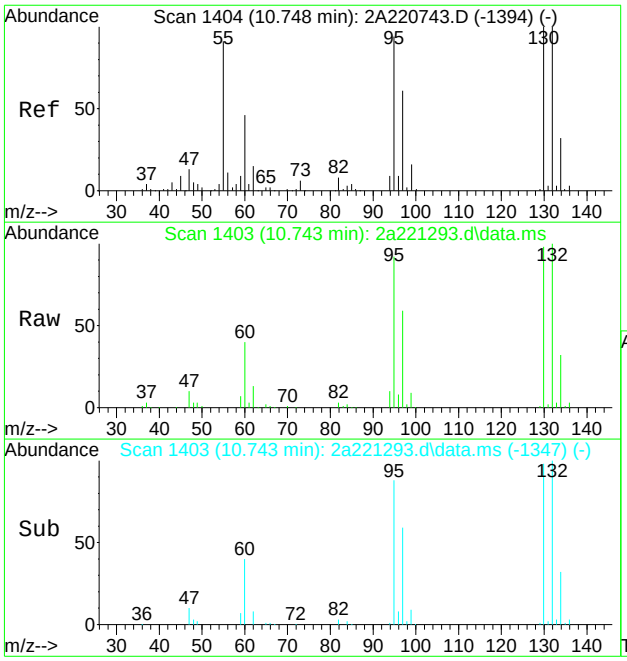




#36
cis-1,2-dichloroethene
Concen: 73.46 ug/L
RT: 8.965 min Scan# 1064
Delta R.T. -0.005 min
Lab File: 2a221293.d
Acq: 28 Oct 2022 1:40 am

Tgt Ion: 96 Resp: 434027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.0 | 122.8 | 182.8 |
| 98 | 65.3 | 33.3 | 93.3 |

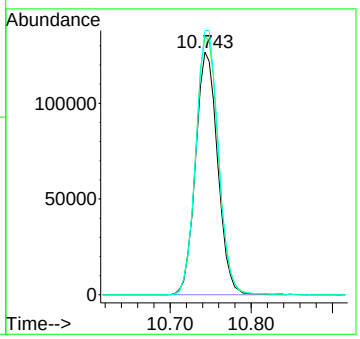





#59
trichloroethene
Concen: 42.12 ug/L
RT: 10.743 min Scan# 1403
Delta R.T. -0.005 min
Lab File: 2a221293.d
Acq: 28 Oct 2022 1:40 am

Tgt Ion: 95 Resp: 240106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 106.3 | 75.5 | 135.5 |
| 132 | 109.0 | 76.0 | 136.0 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348804.d
Acq On : 29 Oct 2022 12:47 pm
Operator : BridgetK
Sample : jd54302-4 Inst : GCMSL
Misc : MS63421,VL10552,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:31:20 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

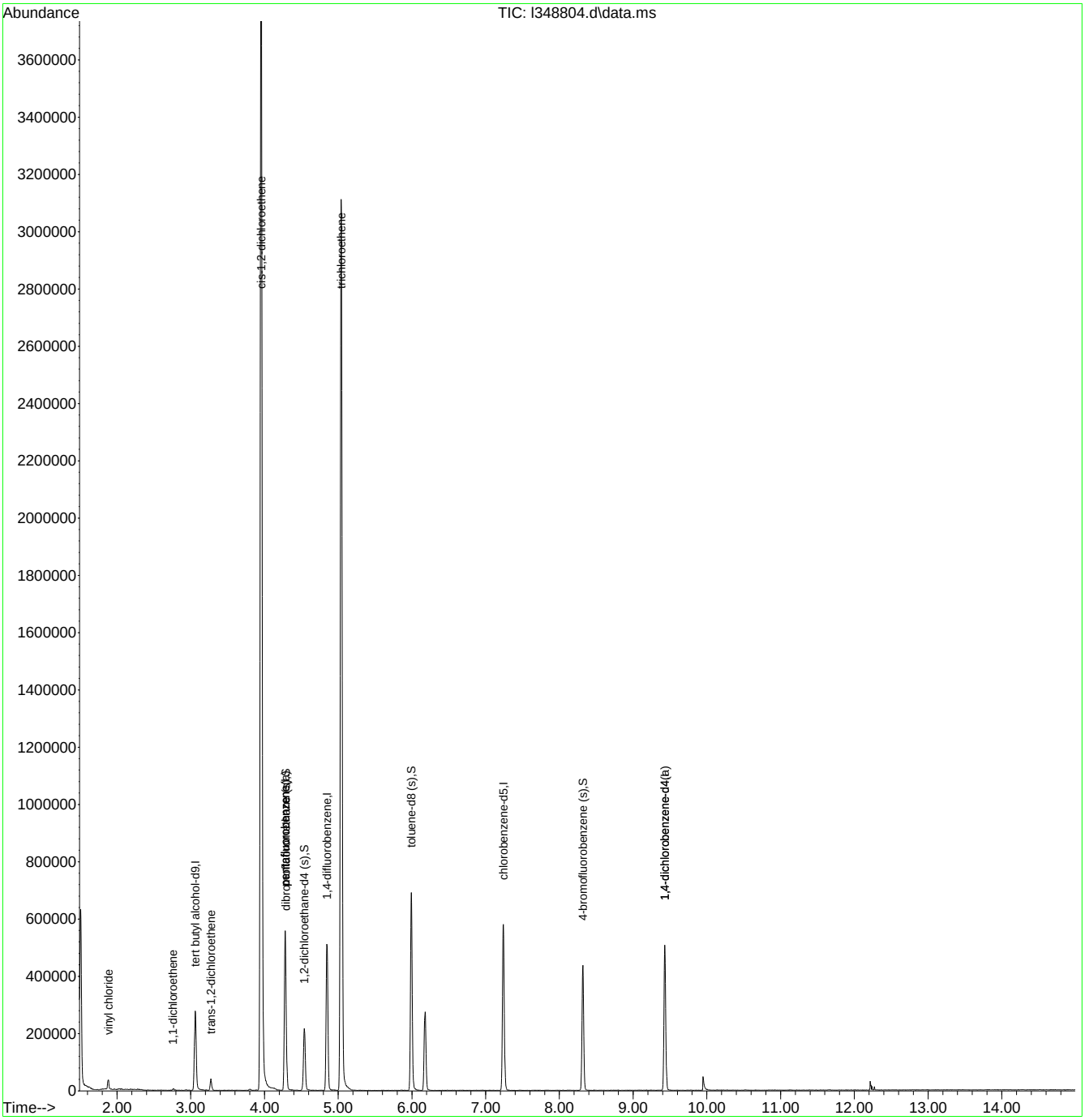
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.060 | 65 | 272742 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.282 | 168 | 235596 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.847 | 114 | 344342 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.241 | 117 | 312282 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.429 | 152 | 138323 | 50.00 | ug/L | 0.00 |
| 123) pentafluorobenzene(a) | 4.282 | 168 | 235596 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.429 | 152 | 138099 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.289 | 113 | 97629 | 49.79 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.58% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.542 | 65 | 126556 | 53.68 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 107.36% | | | |
| 73) toluene-d8 (s) | 5.993 | 98 | 426072 | 51.53 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.06% | | | |
| 96) 4-bromofluorobenzene (s) | 8.319 | 95 | 156653 | 49.24 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.48% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.882 | 62 | 24189 | 5.68 | ug/L | 98 |
| 17) 1,1-dichloroethene | 2.758 | 96 | 1505 | 0.59 | ug/L | 85 |
| 26) trans-1,2-dichloroethene | 3.275 | 96 | 11975 | 4.43 | ug/L | 86 |
| 37) cis-1,2-dichloroethene | 3.955 | 96 | 1700545 | 583.15 | ug/L | 82 |
| 59) trichloroethene | 5.040 | 95 | 988929 | 339.37 | ug/L | 89 |

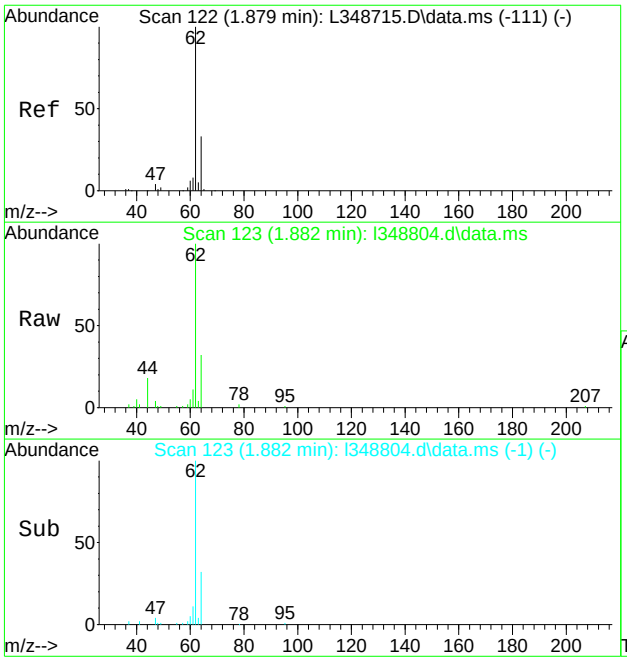
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348804.d
Acq On : 29 Oct 2022 12:47 pm
Operator : BridgetK
Sample : jd54302-4 Inst : GCMSL
Misc : MS63421,VL10552,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:31:20 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

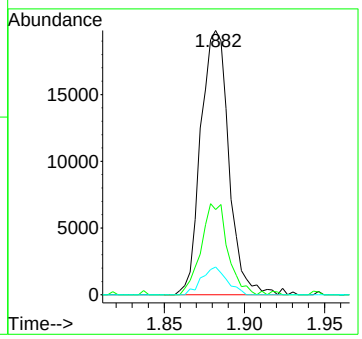


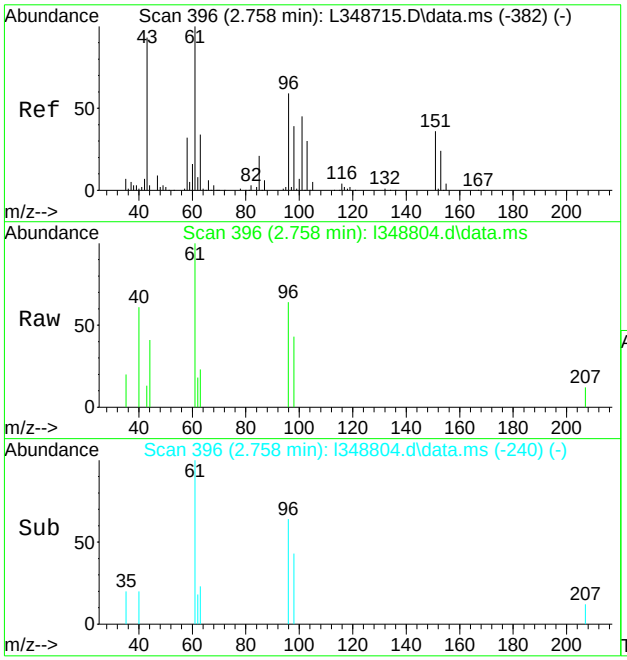



#9
vinyl chloride
Concen: 5.68 ug/L
RT: 1.882 min Scan# 123
Delta R.T. 0.003 min
Lab File: l348804.d
Acq: 29 Oct 2022 12:47 pm

Tgt Ion: 62 Resp: 24189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.3 | 2.8 | 62.8 |
| 61 | 10.5 | 0.0 | 37.9 |

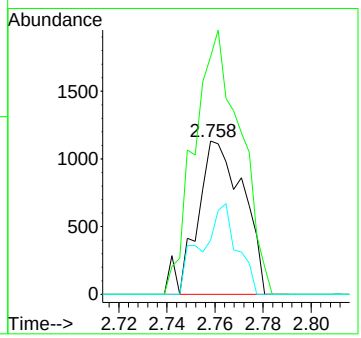


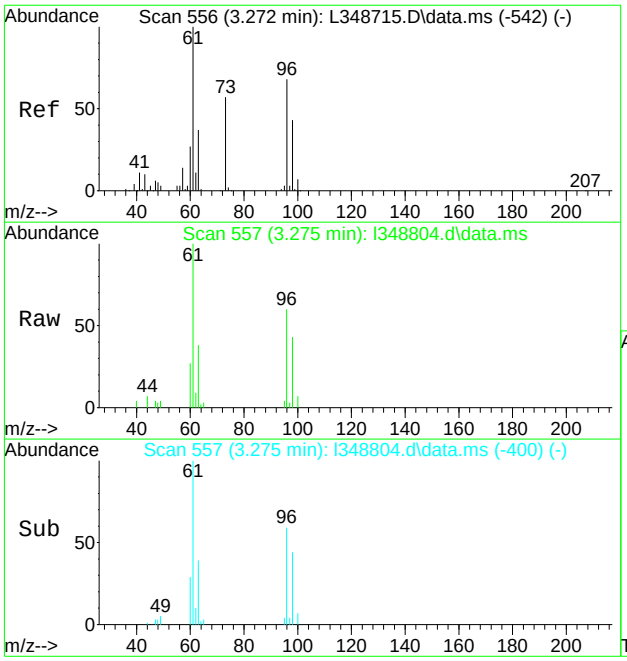




#17
1,1-dichloroethene
Concen: 0.59 ug/L
RT: 2.758 min Scan# 396
Delta R.T. 0.000 min
Lab File: l348804.d
Acq: 29 Oct 2022 12:47 pm

Tgt Ion: 96 Resp: 1505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 155.1 | 139.4 | 199.4 |
| 63 | 35.2 | 27.3 | 87.3 |

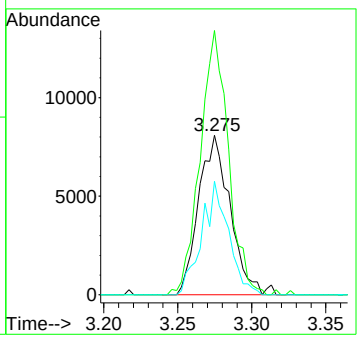


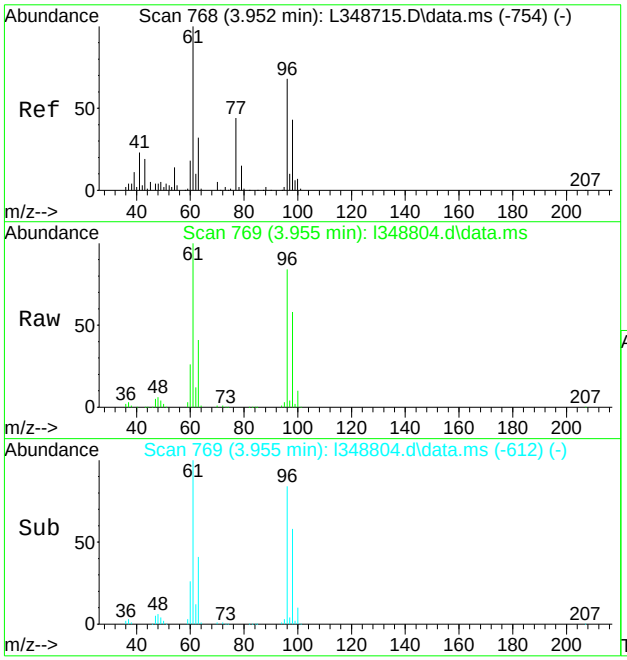



#26
trans-1,2-dichloroethene
Concen: 4.43 ug/L
RT: 3.275 min Scan# 557
Delta R.T. 0.003 min
Lab File: l348804.d
Acq: 29 Oct 2022 12:47 pm

Tgt Ion: 96 Resp: 11975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 165.7 | 116.5 | 176.5 |
| 98 | 71.1 | 32.4 | 92.4 |

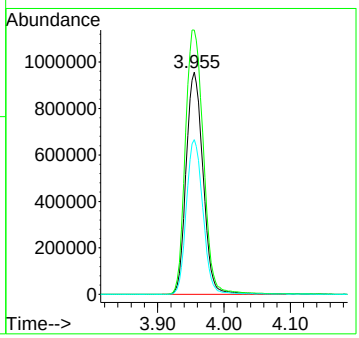


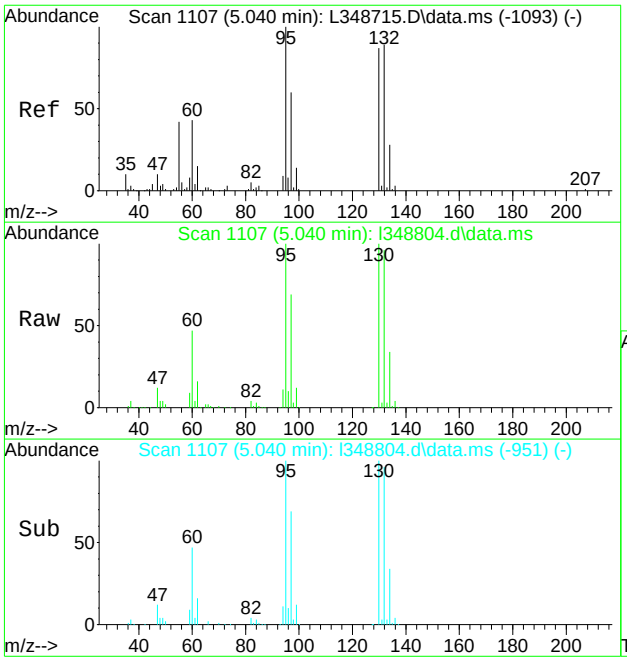




#37
cis-1,2-dichloroethene
Concen: 583.15 ug/L
RT: 3.955 min Scan# 769
Delta R.T. 0.003 min
Lab File: l348804.d
Acq: 29 Oct 2022 12:47 pm

Tgt Ion: 96 Resp: 1700545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 118.9 | 116.7 | 176.7 |
| 98 | 69.5 | 32.6 | 92.6 |

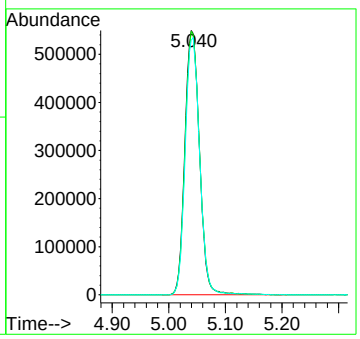





#59
trichloroethene
Concen: 339.37 ug/L
RT: 5.040 min Scan# 1107
Delta R.T. -0.000 min
Lab File: l348804.d
Acq: 29 Oct 2022 12:47 pm

Tgt Ion: 95 Resp: 988929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 99.6 | 57.2 | 117.2 |
| 132 | 96.3 | 58.8 | 118.8 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221292.d
Acq On : 28 Oct 2022 1:11 am
Operator : nickw
Sample : jd54302-5 Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:47:58 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

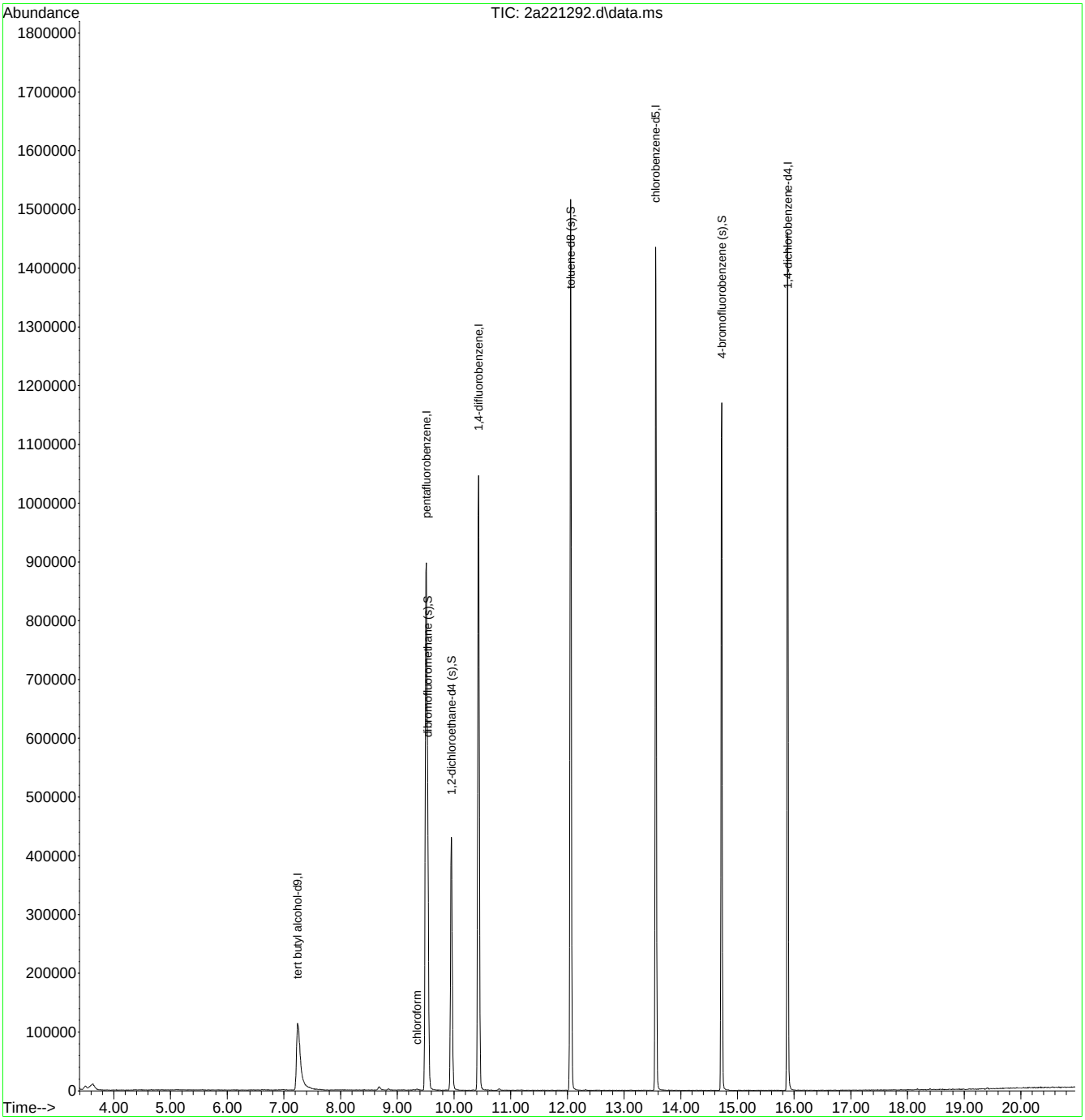
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.240 | 65 | 329182 | 500.00 | ug/L | -0.01 |
| 5) pentafluorobenzene | 9.511 | 168 | 680983 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.433 | 114 | 922186 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.558 | 117 | 758005 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 376768 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 295855 | 49.27 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.54% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.956 | 65 | 324794 | 44.76 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 89.52% | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 958632 | 49.71 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.42% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 346168 | 48.60 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.20% | | | |
| Target Compounds | | | | | | Qvalue |
| 40) chloroform | 9.343 | 83 | 2111 | 0.20 | ug/L | 84 |

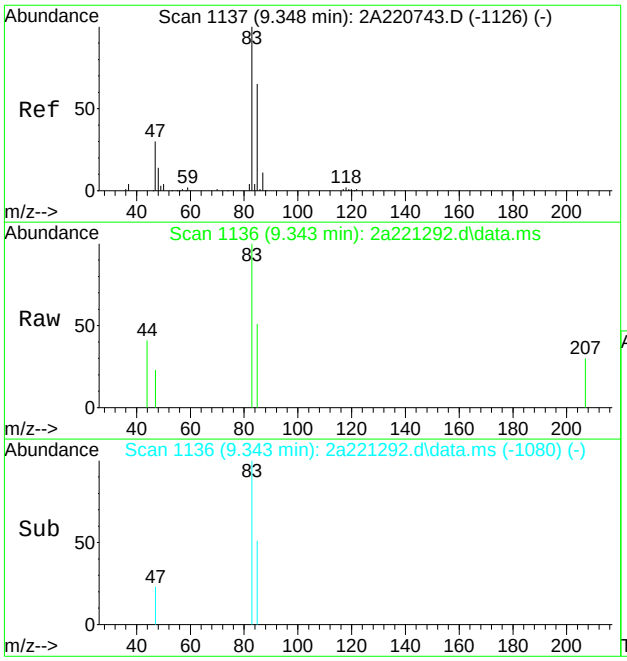
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221292.d
Acq On : 28 Oct 2022 1:11 am
Operator : nickw
Sample : jd54302-5 Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:47:58 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

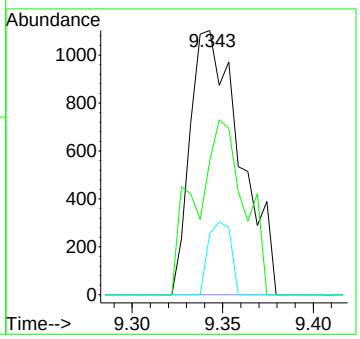





#40
chloroform
Concen: 0.20 ug/L
RT: 9.343 min Scan# 1136
Delta R.T. -0.005 min
Lab File: 2a221292.d
Acq: 28 Oct 2022 1:11 am

Tgt Ion: 83 Resp: 2111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 50.7 | 34.5 | 94.5 |
| 47 | 23.2 | 0.7 | 60.7 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221291.d
Acq On : 28 Oct 2022 12:43 am
Operator : nickw
Sample : mb Inst : GCMS2A
Misc : MS46075,V2A9619,5,,,,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:45:38 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

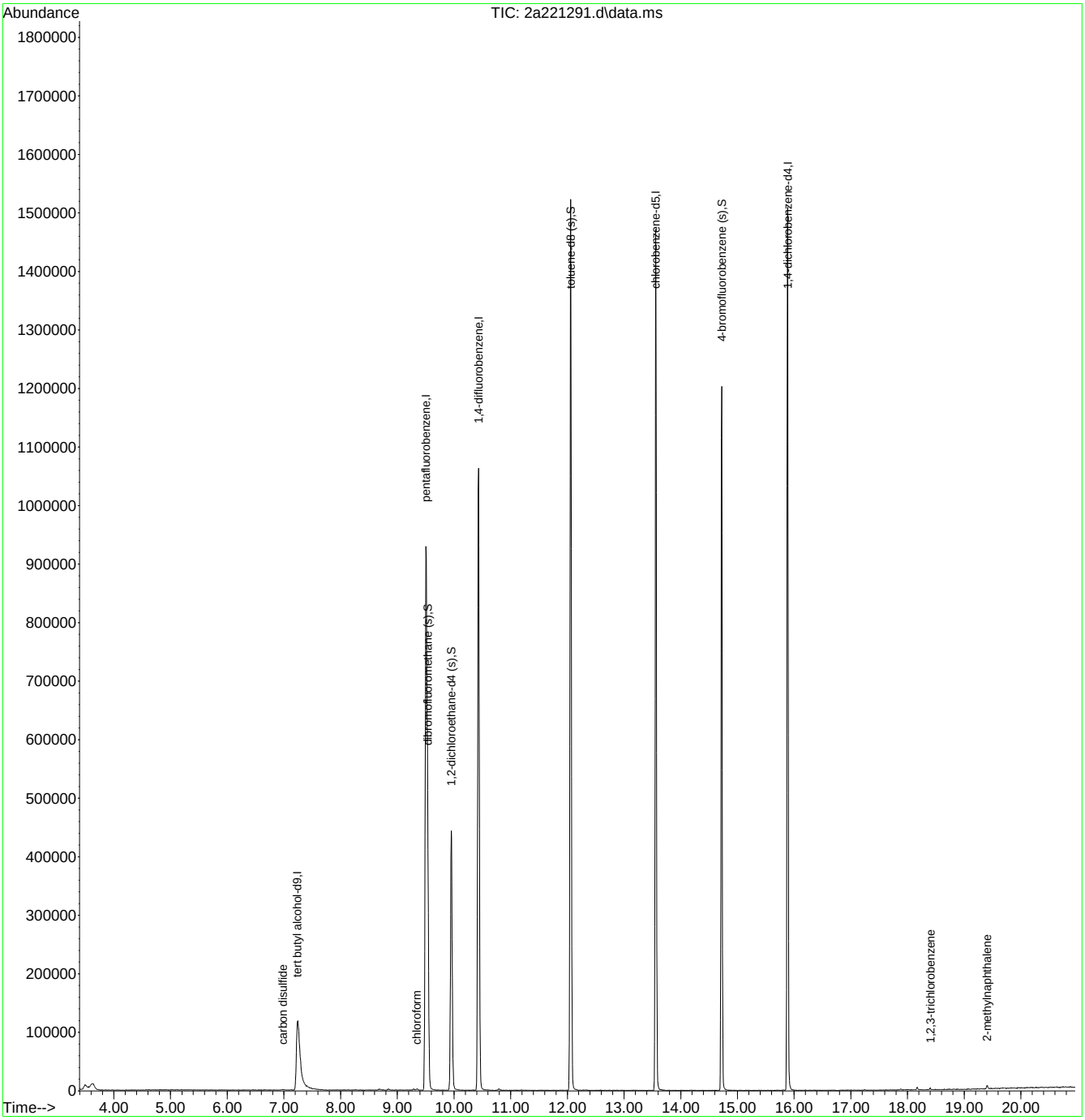
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.235 | 65 | 338300 | 500.00 | ug/L | -0.02 |
| 5) pentafluorobenzene | 9.505 | 168 | 695700 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.433 | 114 | 944877 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.558 | 117 | 772631 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 391363 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 297855 | 48.55 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.10% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.951 | 65 | 332797 | 44.76 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 89.52% | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 983486 | 50.03 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.06% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 352324 | 47.62 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.24% | | | |
| Target Compounds | | | | | | Qvalue |
| 21) carbon disulfide | 6.978 | 76 | 2292 | 0.13 | ug/L | 87 |
| 40) chloroform | 9.338 | 83 | 2333 | 0.22 | ug/L | 81 |
| 121) 1,2,3-trichlorobenzene | 18.403 | 180 | 1413 | 0.26 | ug/L # | 64 |
| 123) 2-methylnaphthalene | 19.404 | 142 | 4121 | 1.25 | ug/L | 85 |

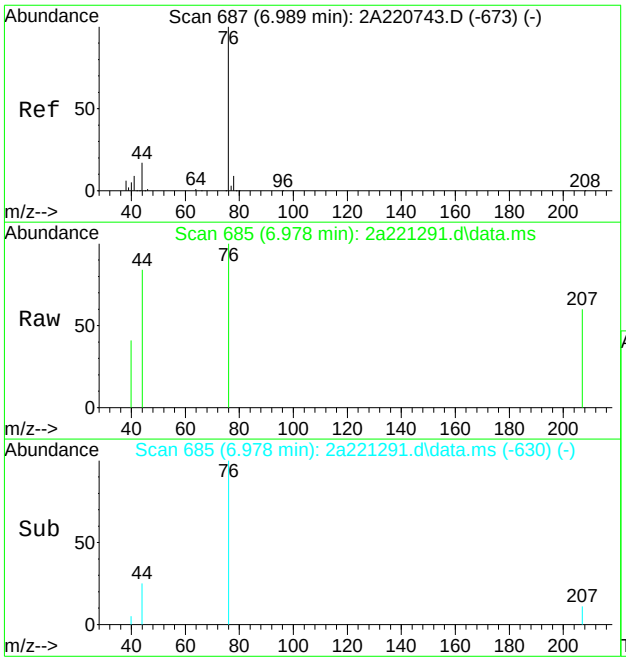
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221291.d
Acq On : 28 Oct 2022 12:43 am
Operator : nickw
Sample : mb Inst : GCMS2A
Misc : MS46075,V2A9619,5,,,,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:45:38 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

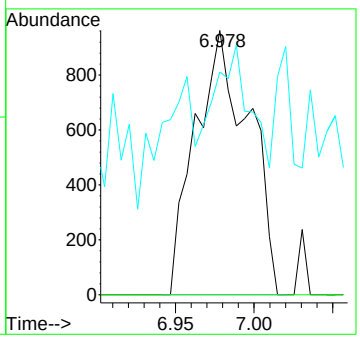


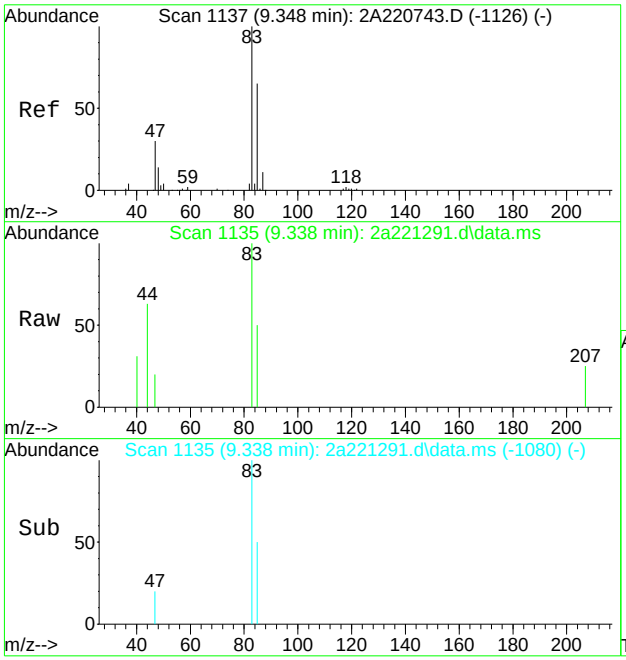



#21
carbon disulfide
Concen: 0.13 ug/L
RT: 6.978 min Scan# 685
Delta R.T. -0.010 min
Lab File: 2a221291.d
Acq: 28 Oct 2022 12:43 am

Tgt Ion: 76 Resp: 2292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 0.0 | 0.0 | 39.1 |
| 44 | 19.0 | 0.0 | 46.6 |

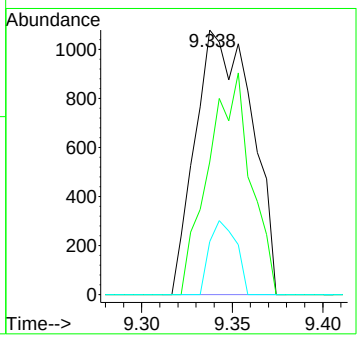


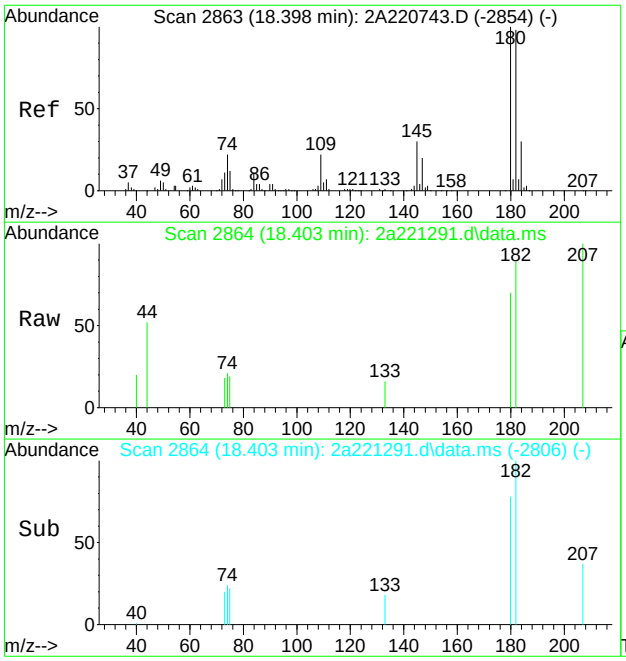




#40
chloroform
Concen: 0.22 ug/L
RT: 9.338 min Scan# 1135
Delta R.T. -0.011 min
Lab File: 2a221291.d
Acq: 28 Oct 2022 12:43 am

Tgt Ion: 83 Resp: 2333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 50.0 | 34.5 | 94.5 |
| 47 | 19.9 | 0.7 | 60.7 |

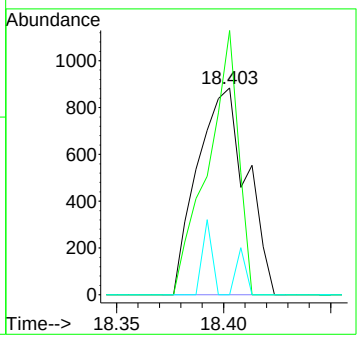


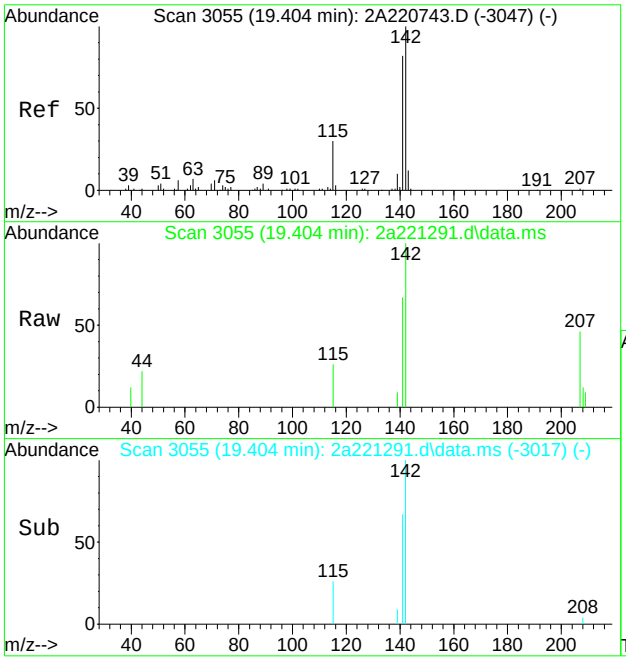



#121
1,2,3-trichlorobenzene
Concen: 0.26 ug/L
RT: 18.403 min Scan# 2864
Delta R.T. 0.005 min
Lab File: 2a221291.d
Acq: 28 Oct 2022 12:43 am

Tgt Ion:180 Resp: 1413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 127.8 | 68.3 | 128.3 |
| 184 | 0.0 | 0.5 | 60.5# |

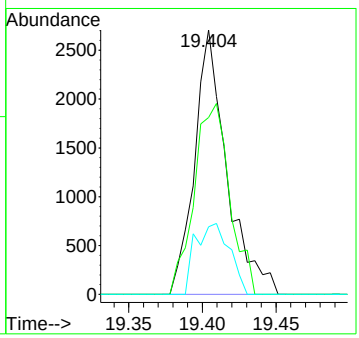



#123
2-methylnaphthalene
Concen: 1.25 ug/L
RT: 19.404 min Scan# 3055
Delta R.T. 0.000 min
Lab File: 2a221291.d
Acq: 28 Oct 2022 12:43 am

Tgt Ion:142 Resp: 4121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 66.9 | 62.1 | 102.1 |
| 115 | 25.6 | 9.8 | 49.8 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348803.d
Acq On : 29 Oct 2022 12:24 pm
Operator : BridgetK
Sample : mb Inst : GCMSL
Misc : MS46075,VL10552,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:27:12 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

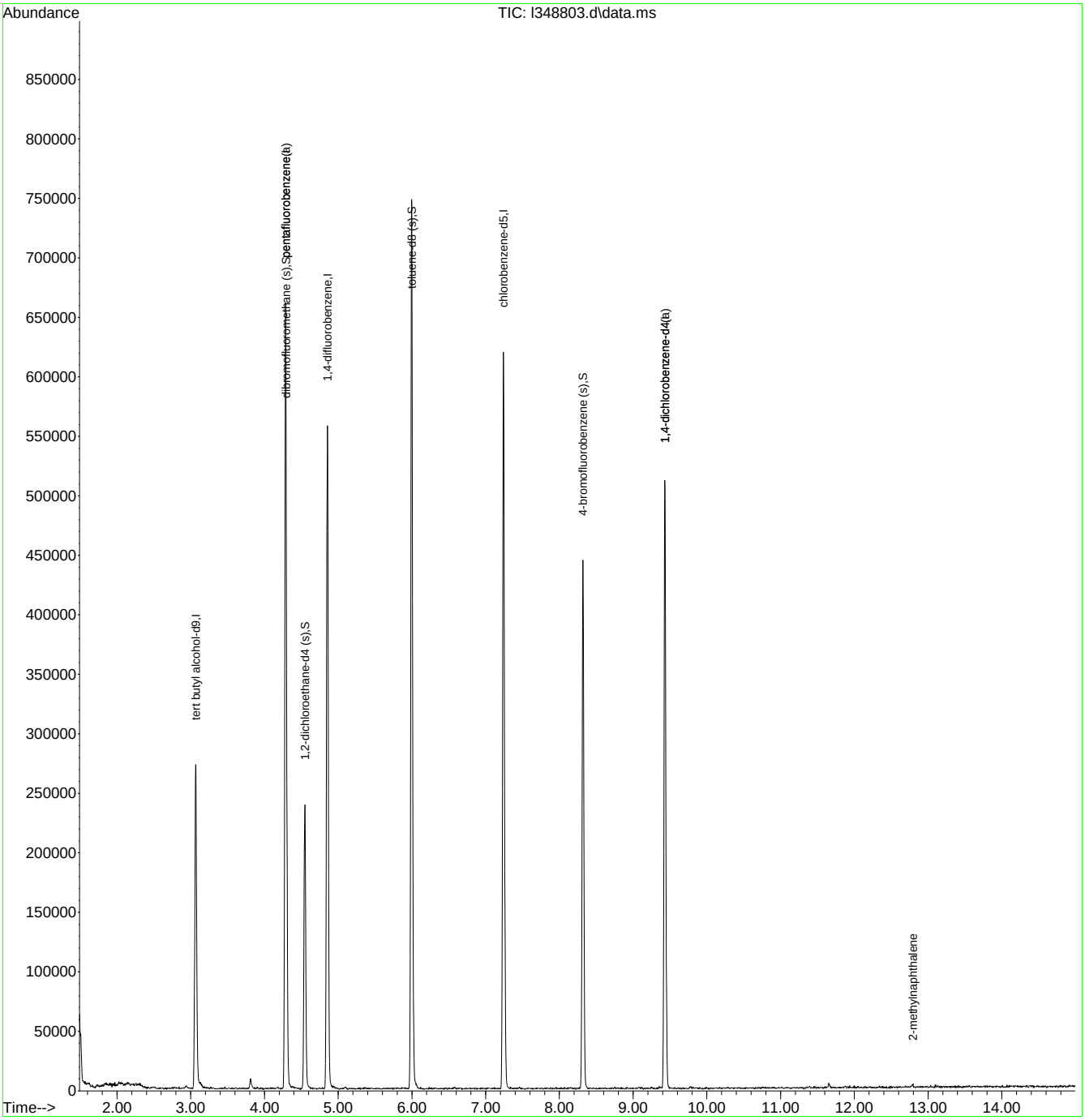
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.066 | 65 | 274853 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.289 | 168 | 274165 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.853 | 114 | 371986 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.241 | 117 | 326352 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.432 | 152 | 140271 | 50.00 | ug/L | 0.00 |
| 123) pentafluorobenzene(a) | 4.289 | 168 | 273072 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.432 | 152 | 140272 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.295 | 113 | 111665 | 48.93 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.86% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.549 | 65 | 135911 | 53.36 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 106.72% | | | |
| 73) toluene-d8 (s) | 5.999 | 98 | 460696 | 53.31 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.62% | | | |
| 96) 4-bromofluorobenzene (s) | 8.319 | 95 | 160869 | 49.87 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.74% | | | |
| Target Compounds | | | | | | Qvalue |
| 122) 2-methylnaphthalene | 12.795 | 142 | 1205 | 0.24 | ug/L | # 63 |

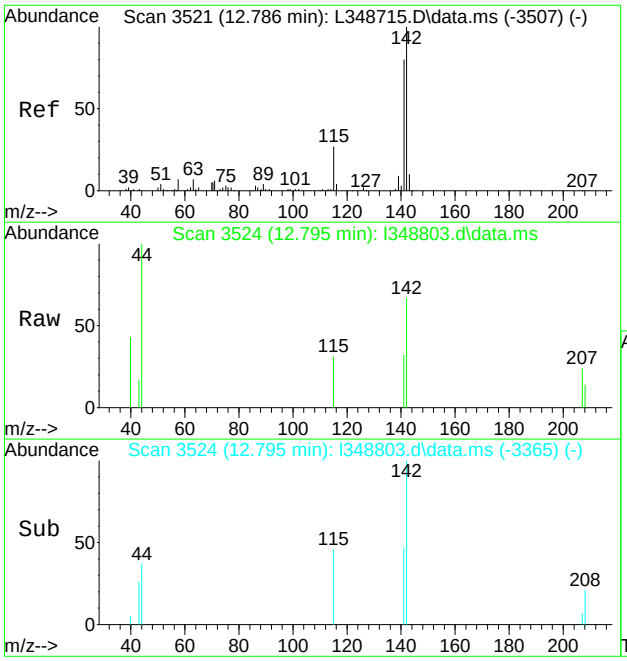
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348803.d
Acq On : 29 Oct 2022 12:24 pm
Operator : BridgetK
Sample : mb Inst : GCMSL
Misc : MS46075,VL10552,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:27:12 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

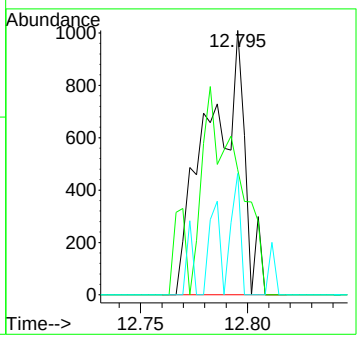





#122
2-methylnaphthalene
Concen: 0.24 ug/L
RT: 12.795 min Scan# 3524
Delta R.T. 0.009 min
Lab File: l348803.d
Acq: 29 Oct 2022 12:24 pm

Tgt Ion:142 Resp: 1205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 47.3 | 59.9 | 99.9# |
| 115 | 45.9 | 7.2 | 47.2 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221289.d
Acq On : 27 Oct 2022 11:46 pm
Operator : nickw
Sample : bs Inst : GCMS2A
Misc : MS46075,V2A9619,5,,,,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:42:14 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) tert butyl alcohol-d9 | 7.246 | 65 | 339350 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.511 | 168 | 690717 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.433 | 114 | 931670 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.563 | 117 | 743342 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 388243 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 297023 | 48.77 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.54% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.956 | 65 | 320447 | 43.71 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 87.42% | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 962166 | 50.88 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.76% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 345047 | 47.01 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.02% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.972 | 45 | 311350 | 4555.30 | ug/L | 100 |
| 3) tertiary butyl alcohol | 7.366 | 59 | 191205 | 220.08 | ug/L | 93 |
| 4) 1,4-dioxane | 11.083 | 88 | 66232 | 1303.25 | ug/L | 88 |
| 6) chlorodifluoromethane | 3.990 | 51 | 343327 | 35.79 | ug/L | 99 |
| 7) dichlorodifluoromethane | 3.963 | 85 | 337954 | 46.39 | ug/L | 98 |
| 8) chloromethane | 4.346 | 50 | 276266 | 25.46 | ug/L | 99 |
| 9) vinyl chloride | 4.572 | 62 | 240318 | 28.95 | ug/L | 98 |
| 10) 1,3-butadiene | 4.624 | 54 | 151309 | 23.97 | ug/L | 98 |
| 11) bromomethane | 5.190 | 94 | 214109 | 42.16 | ug/L | 98 |
| 12) chloroethane | 5.358 | 64 | 189941 | 42.73 | ug/L | 96 |
| 13) trichlorofluoromethane | 5.783 | 101 | 411614 | 46.05 | ug/L | 98 |
| 14) ethyl ether | 6.192 | 74 | 134503 | 43.33 | ug/L | 97 |
| 15) acrolein | 6.407 | 56 | 57137 | 42.70 | ug/L | 93 |
| 16) freon 113 | 6.616 | 151 | 211615 | 43.49 | ug/L | 94 |
| 17) 1,1-dichloroethene | 6.601 | 96 | 215229 | 42.37 | ug/L | 90 |
| 18) acetone | 6.601 | 43 | 352250 | 94.71 | ug/L | 90 |
| 19) acetonitrile | 7.015 | 41 | 394401 | 424.24 | ug/L | 96 |
| 20) iodomethane | 6.847 | 142 | 457864 | 47.27 | ug/L | 99 |
| 21) carbon disulfide | 6.983 | 76 | 701420 | 40.02 | ug/L | 93 |
| 22) methylene chloride | 7.303 | 84 | 242990 | 42.92 | ug/L | 91 |
| 23) methyl acetate | 7.062 | 43 | 239117 | 39.03 | ug/L | 92 |
| 24) methyl tert butyl ether | 7.660 | 73 | 695816 | 43.50 | ug/L | 94 |
| 25) trans-1,2-dichloroethene | 7.686 | 96 | 240167 | 41.94 | ug/L | 93 |
| 26) hexane | 8.043 | 57 | 412450 | 36.25 | ug/L | 96 |
| 27) di-isopropyl ether | 8.252 | 45 | 954679 | 38.64 | ug/L | 96 |
| 28) ethyl tert-butyl ether | 8.708 | 59 | 899638 | 42.12 | ug/L | 99 |
| 29) 2-butanone | 8.902 | 72 | 120330 | 151.53 | ug/L # | 89 |
| 30) 1,1-dichloroethane | 8.257 | 63 | 457300 | 41.37 | ug/L | 98 |
| 31) chloroprene | 8.357 | 53 | 420102 | 39.98 | ug/L | 94 |
| 33) vinyl acetate | 8.200 | 86 | 53056 | 63.42 | ug/L # | 61 |
| 34) ethyl acetate | 8.923 | 45 | 48869 | 40.96 | ug/L | 79 |
| 35) 2,2-dichloropropane | 8.997 | 77 | 298665 | 35.89 | ug/L | 98 |
| 36) cis-1,2-dichloroethene | 8.971 | 96 | 267027 | 43.33 | ug/L | 93 |
| 37) propionitrile | 8.976 | 54 | 452700 | 457.39 | ug/L | 87 |
| 38) bromochloromethane | 9.259 | 130 | 189754 | 48.24 | ug/L | 91 |
| 39) tetrahydrofuran | 9.285 | 42 | 93654 | 40.23 | ug/L | 93 |
| 40) chloroform | 9.348 | 83 | 436275 | 41.53 | ug/L | 95 |
| 41) tert-butyl formate | 9.385 | 59 | 234100 | 56.10 | ug/L | 96 |
| 42) isobutyl alcohol | 9.741 | 43 | 155631 | 418.49 | ug/L | 94 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221289.d
Acq On : 27 Oct 2022 11:46 pm
Operator : nickw
Sample : bs Inst : GCMS2A
Misc : MS46075,V2A9619,5,,,,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:42:14 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 44) | methacrylonitrile | 9.175 | 67 | 114410 | 46.93 | ug/L | | 93 |
| 45) | 1,1,1-trichloroethane | 9.605 | 97 | 391034 | 43.57 | ug/L | | 95 |
| 46) | cyclohexane | 9.715 | 84 | 357317 | 41.59 | ug/L | | 89 |
| 47) | 1,1-dichloropropene | 9.773 | 75 | 317723 | 41.59 | ug/L | | 98 |
| 48) | tert-amyl alcohol | 9.904 | 73 | 82080 | 209.28 | ug/L | | 96 |
| 49) | carbon tetrachloride | 9.799 | 117 | 353354 | 45.35 | ug/L | | 98 |
| 52) | 2,2,4-trimethylpentane | 10.119 | 57 | 1009404 | 38.86 | ug/L | | 95 |
| 53) | tert-amyl methyl ether | 10.103 | 73 | 739893 | 43.10 | ug/L | | 98 |
| 54) | n-butyl alcohol | 10.491 | 56 | 507021 | 2291.29 | ug/L | | 95 |
| 55) | benzene | 10.019 | 78 | 916585 | 43.28 | ug/L | | 99 |
| 56) | heptane | 10.281 | 57 | 208421 | 41.62 | ug/L | | 98 |
| 57) | isopropyl acetate | 9.941 | 87 | 59564 | 48.52 | ug/L | # | 71 |
| 58) | 1,2-dichloroethane | 10.045 | 62 | 350880 | 38.99 | ug/L | | 97 |
| 59) | trichloroethene | 10.743 | 95 | 258410 | 43.80 | ug/L | | 95 |
| 60) | ethyl acrylate | 10.737 | 55 | 424178 | 44.82 | ug/L | | 99 |
| 61) | 2-nitropropane | 11.498 | 41 | 62827 | 39.57 | ug/L | | 93 |
| 62) | 2-chloroethyl vinyl ether | 11.534 | 63 | 598152 | 483.16 | ug/L | | 97 |
| 63) | methyl methacrylate | 11.005 | 100 | 75541 | 49.64 | ug/L | # | 67 |
| 64) | 1,2-dichloropropane | 11.031 | 63 | 270123 | 43.26 | ug/L | | 98 |
| 65) | methylcyclohexane | 11.042 | 83 | 398941 | 40.74 | ug/L | | 95 |
| 66) | dibromomethane | 11.141 | 93 | 161023 | 47.41 | ug/L | | 93 |
| 67) | bromodichloromethane | 11.298 | 83 | 344760 | 44.80 | ug/L | | 98 |
| 68) | epichlorohydrin | 11.618 | 57 | 155932 | 222.62 | ug/L | | 98 |
| 69) | cis-1,3-dichloropropene | 11.755 | 75 | 387743 | 42.39 | ug/L | | 89 |
| 70) | 4-methyl-2-pentanone | 11.859 | 58 | 476228 | 178.86 | ug/L | | 87 |
| 71) | 3-methyl-1-butanol | 11.865 | 70 | 142569 | 885.15 | ug/L | | 93 |
| 74) | toluene | 12.132 | 92 | 543364 | 46.26 | ug/L | | 99 |
| 75) | trans-1,3-dichloropropene | 12.321 | 75 | 347773 | 47.13 | ug/L | | 98 |
| 76) | ethyl methacrylate | 12.316 | 69 | 309295 | 48.14 | ug/L | | 91 |
| 77) | 1,1,2-trichloroethane | 12.536 | 83 | 186990 | 49.48 | ug/L | | 96 |
| 78) | 2-hexanone | 12.704 | 58 | 445432 | 168.75 | ug/L | | 90 |
| 79) | tetrachloroethene | 12.683 | 166 | 295350 | 47.92 | ug/L | | 98 |
| 80) | 1,3-dichloropropane | 12.719 | 76 | 331924 | 46.43 | ug/L | | 99 |
| 81) | butyl acetate | 12.787 | 56 | 198033 | 46.67 | ug/L | | 86 |
| 82) | dibromochloromethane | 12.960 | 129 | 296155 | 54.16 | ug/L | | 97 |
| 83) | 1,2-dibromoethane | 13.113 | 107 | 249685 | 52.12 | ug/L | | 100 |
| 84) | n-butyl ether | 13.558 | 57 | 999656 | 40.73 | ug/L | | 98 |
| 85) | chlorobenzene | 13.595 | 112 | 620319 | 47.33 | ug/L | | 94 |
| 86) | 1,1,1,2-tetrachloroethane | 13.658 | 131 | 258644 | 51.82 | ug/L | | 100 |
| 87) | ethylbenzene | 13.653 | 91 | 949341 | 44.11 | ug/L | | 99 |
| 88) | m,p-xylene | 13.778 | 106 | 768323 | 91.68 | ug/L | | 97 |
| 89) | o-xylene | 14.177 | 91 | 752675 | 44.29 | ug/L | | 100 |
| 90) | styrene | 14.187 | 104 | 617940 | 46.92 | ug/L | | 99 |
| 91) | n-amyl acetate | 14.224 | 70 | 146212 | 44.17 | ug/L | # | 81 |
| 92) | bromoform | 14.408 | 173 | 219719 | 59.11 | ug/L | | 97 |
| 93) | butyl acrylate | 14.009 | 55 | 547769 | 45.21 | ug/L | | 97 |
| 94) | isopropylbenzene | 14.523 | 105 | 928754 | 43.99 | ug/L | | 97 |
| 95) | cis-1,4-dichloro-2-butene | 14.560 | 88 | 89983 | 47.48 | ug/L | # | 84 |
| 98) | bromobenzene | 14.900 | 156 | 301209 | 47.98 | ug/L | | 90 |
| 99) | 1,1,2,2-tetrachloroethane | 14.801 | 83 | 279201 | 47.83 | ug/L | | 99 |
| 100) | trans-1,4-dichloro-2-b... | 14.838 | 53 | 65962 | 39.36 | ug/L | | 88 |
| 101) | 1,2,3-trichloropropane | 14.885 | 110 | 75250 | 49.77 | ug/L | | 97 |
| 102) | n-propylbenzene | 14.937 | 91 | 1049895 | 41.78 | ug/L | | 98 |
| 103) | 2-chlorotoluene | 15.068 | 126 | 255847 | 45.99 | ug/L | | 90 |
| 104) | 4-chlorotoluene | 15.178 | 91 | 667224 | 42.61 | ug/L | | 97 |
| 105) | 1,3,5-trimethylbenzene | 15.094 | 105 | 757075 | 43.74 | ug/L | | 100 |
| 106) | tert-butylbenzene | 15.430 | 119 | 695331 | 45.01 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221289.d
Acq On : 27 Oct 2022 11:46 pm
Operator : nickw
Sample : bs Inst : GCMS2A
Misc : MS46075,V2A9619,5,,,,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:42:14 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

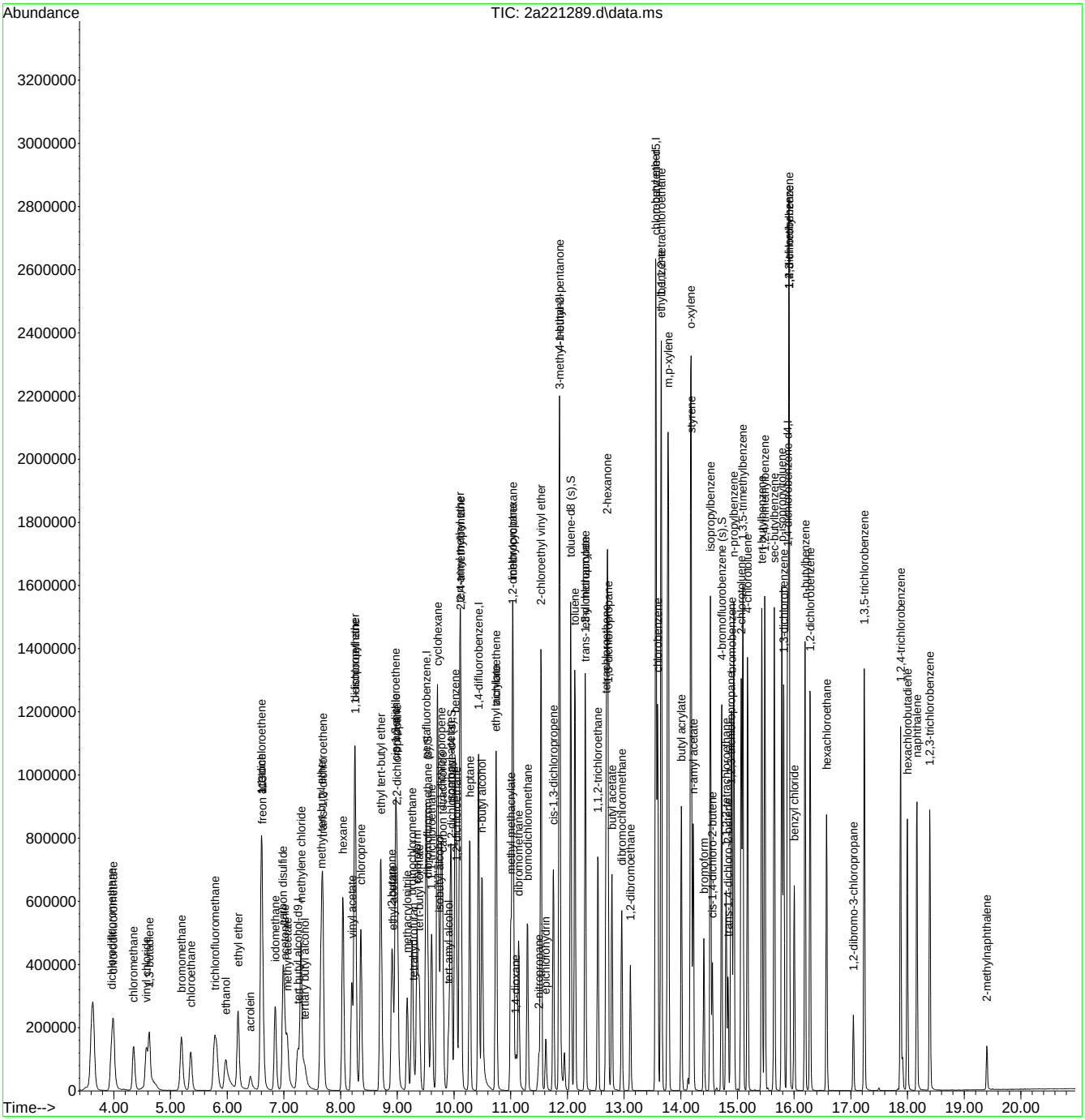
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 107) 1,2,4-trimethylbenzene | 15.482 | 105 | 762752 | 44.02 | ug/L | 100 |
| 108) sec-butylbenzene | 15.650 | 105 | 946340 | 42.34 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 15.818 | 146 | 514401 | 45.58 | ug/L | 98 |
| 110) p-isopropyltoluene | 15.781 | 119 | 854527 | 44.98 | ug/L | 100 |
| 111) benzyl chloride | 16.001 | 91 | 407380 | 44.79 | ug/L | 97 |
| 112) 1,2,3-trimethylbenzene | 15.912 | 105 | 774159 | 43.82 | ug/L | 100 |
| 113) 1,4-dichlorobenzene | 15.912 | 146 | 517974 | 45.69 | ug/L | 97 |
| 114) 1,2-dichlorobenzene | 16.285 | 146 | 506100 | 46.84 | ug/L | 98 |
| 115) n-butylbenzene | 16.195 | 92 | 397439 | 42.70 | ug/L | 96 |
| 116) 1,2-dibromo-3-chloropr... | 17.045 | 157 | 69202 | 57.55 | ug/L | 97 |
| 117) 1,3,5-trichlorobenzene | 17.239 | 180 | 414544 | 50.37 | ug/L | 99 |
| 118) 1,2,4-trichlorobenzene | 17.878 | 180 | 353633 | 53.27 | ug/L | 99 |
| 119) hexachlorobutadiene | 17.999 | 225 | 175180 | 49.45 | ug/L | 98 |
| 120) naphthalene | 18.167 | 128 | 680464 | 55.52 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 18.392 | 180 | 284301 | 53.10 | ug/L | 97 |
| 122) hexachloroethane | 16.573 | 201 | 143772 | 52.21 | ug/L | 96 |
| 123) 2-methylnaphthalene | 19.399 | 142 | 71453 | 21.86 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221289.d
Acq On : 27 Oct 2022 11:46 pm
Operator : nickw
Sample : bs Inst : GCMS2A
Misc : MS46075,V2A9619,5,,,,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:42:14 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348801.d
Acq On : 29 Oct 2022 11:38 am
Operator : BridgetK
Sample : bs Inst : GCMSL
Misc : MS46075,VL10552,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:24:07 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.066 | 65 | 227484 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.282 | 168 | 232878 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.850 | 114 | 328511 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.241 | 117 | 313175 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.433 | 152 | 123919 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.282 | 168 | 232878 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.433 | 152 | 123920 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.292 | 113 | 95288 | 49.16 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.32% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.542 | 65 | 112536 | 50.03 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.06% | | | | |
| 73) toluene-d8 (s) | 5.996 | 98 | 394047 | 47.52 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.04% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.319 | 95 | 146075 | 51.25 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.50% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.280 | 88 | 42164 | 935.87 | ug/L | | 91 |
| 3) ethanol | 2.485 | 45 | 256234 | 4165.60 | ug/L | | 99 |
| 4) tertiary butyl alcohol | 3.121 | 59 | 161036 | 236.36 | ug/L | | 97 |
| 6) chlorodifluoromethane | 1.651 | 51 | 217116 | 47.92 | ug/L | # | 98 |
| 7) dichlorodifluoromethane | 1.635 | 85 | 222331 | 41.99 | ug/L | | 98 |
| 8) chloromethane | 1.795 | 50 | 173810 | 42.72 | ug/L | | 98 |
| 9) vinyl chloride | 1.879 | 62 | 179081 | 42.53 | ug/L | | 99 |
| 10) 1,3-butadiene | 1.911 | 54 | 181234 | 59.49 | ug/L | | 98 |
| 11) bromomethane | 2.132 | 96 | 65876 | 60.22 | ug/L | | 92 |
| 12) chloroethane | 2.213 | 64 | 93249 | 42.69 | ug/L | | 95 |
| 13) trichlorofluoromethane | 2.395 | 101 | 203319 | 44.85 | ug/L | | 95 |
| 14) ethyl ether | 2.578 | 74 | 88367 | 46.64 | ug/L | | 95 |
| 15) acrolein | 2.678 | 56 | 43317 | 46.21 | ug/L | | 97 |
| 16) freon 113 | 2.755 | 151 | 97860 | 45.41 | ug/L | | 99 |
| 17) 1,1-dichloroethene | 2.761 | 96 | 112085 | 44.25 | ug/L | | 96 |
| 18) acetone | 2.771 | 58 | 102275 | 163.61 | ug/L | | 95 |
| 19) acetonitrile | 2.963 | 40 | 148206 | 436.94 | ug/L | | 89 |
| 20) iodomethane | 2.877 | 142 | 110247 | 61.99 | ug/L | | 98 |
| 21) iso-butyl alcohol | 4.430 | 43 | 118074 | 407.51 | ug/L | | 94 |
| 22) carbon disulfide | 2.935 | 76 | 365318 | 42.42 | ug/L | | 98 |
| 23) methylene chloride | 3.089 | 84 | 128610 | 45.09 | ug/L | | 97 |
| 24) methyl acetate | 2.976 | 74 | 37941 | 46.54 | ug/L | | 97 |
| 25) methyl tert butyl ether | 3.255 | 73 | 413843 | 48.27 | ug/L | | 99 |
| 26) trans-1,2-dichloroethene | 3.275 | 96 | 117072 | 43.82 | ug/L | | 95 |
| 27) hexane | 3.451 | 57 | 219640 | 44.41 | ug/L | | 97 |
| 28) di-isopropyl ether | 3.564 | 45 | 438514 | 45.46 | ug/L | | 98 |
| 29) ethyl tert-butyl ether | 3.807 | 59 | 444717 | 45.05 | ug/L | | 100 |
| 30) 2-butanone | 3.929 | 72 | 117589 | 176.40 | ug/L | | 99 |
| 31) 1,1-dichloroethane | 3.573 | 63 | 229465 | 44.92 | ug/L | | 98 |
| 32) chloroprene | 3.621 | 53 | 202266 | 43.88 | ug/L | | 97 |
| 33) acrylonitrile | 3.252 | 53 | 3790 | 1.98 | ug/L | # | 47 |
| 34) vinyl acetate | 3.544 | 86 | 35760 | 49.04 | ug/L | # | 76 |
| 35) ethyl acetate | 3.936 | 45 | 34884 | 42.69 | ug/L | # | 45 |
| 36) 2,2-dichloropropane | 3.968 | 77 | 178417 | 43.68 | ug/L | | 95 |
| 37) cis-1,2-dichloroethene | 3.961 | 96 | 124986 | 43.36 | ug/L | | 97 |
| 38) propionitrile | 3.977 | 54 | 304358 | 429.22 | ug/L | | 98 |
| 39) methyl acrylate | 3.987 | 85 | 29091 | 42.55 | ug/L | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348801.d
Acq On : 29 Oct 2022 11:38 am
Operator : BridgetK
Sample : bs Inst : GCMSL
Misc : MS46075,VL10552,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:24:07 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 40) bromochloromethane | 4.128 | 128 | 57936 | 45.56 | ug/L | | 93 |
| 41) tetrahydrofuran | 4.135 | 72 | 32800 | 44.14 | ug/L | | 93 |
| 42) chloroform | 4.180 | 83 | 213720 | 42.88 | ug/L | | 99 |
| 44) methacrylonitrile | 4.087 | 67 | 85333 | 43.85 | ug/L | | 92 |
| 45) 1,1,1-trichloroethane | 4.321 | 97 | 181788 | 43.78 | ug/L | | 98 |
| 46) cyclohexane | 4.379 | 84 | 163857 | 37.81 | ug/L | | 99 |
| 47) 1,1-dichloropropene | 4.427 | 75 | 159438 | 42.42 | ug/L | | 98 |
| 48) carbon tetrachloride | 4.433 | 117 | 140134 | 42.40 | ug/L | | 96 |
| 49) isopropyl acetate | 4.545 | 87 | 40642 | 47.87 | ug/L | # | 84 |
| 50) tert amyl alcohol | 4.520 | 55 | 56209 | 197.48 | ug/L | | 96 |
| 53) tert-amyl methyl ether | 4.635 | 73 | 372521 | 45.29 | ug/L | | 100 |
| 54) 2,2,4-trimethylpentane | 4.638 | 57 | 402631 | 44.16 | ug/L | | 99 |
| 55) n-butyl alcohol | 4.908 | 56 | 355232 | 1985.60 | ug/L | | 99 |
| 56) benzene | 4.578 | 78 | 460704 | 42.67 | ug/L | | 98 |
| 57) heptane | 4.748 | 57 | 95276 | 44.13 | ug/L | | 97 |
| 58) 1,2-dichloroethane | 4.600 | 62 | 162224 | 45.77 | ug/L | | 98 |
| 59) trichloroethene | 5.043 | 95 | 124421 | 44.76 | ug/L | | 94 |
| 60) ethyl acrylate | 5.062 | 55 | 247564 | 47.19 | ug/L | | 100 |
| 61) 2-nitropropane | 5.595 | 41 | 58186 | 44.86 | ug/L | | 98 |
| 62) 2-chloroethyl vinyl ether | 5.624 | 63 | 461806 | 223.61 | ug/L | | 99 |
| 63) methyl methacrylate | 5.242 | 100 | 47844 | 46.67 | ug/L | | 95 |
| 64) 1,2-dichloropropane | 5.242 | 63 | 126164 | 43.25 | ug/L | | 98 |
| 65) methylcyclohexane | 5.232 | 83 | 217032 | 43.62 | ug/L | | 100 |
| 66) dibromomethane | 5.312 | 93 | 75210 | 44.49 | ug/L | | 95 |
| 67) bromodichloromethane | 5.431 | 83 | 176524 | 45.20 | ug/L | | 97 |
| 68) cis-1,3-dichloropropene | 5.771 | 75 | 211999 | 45.23 | ug/L | | 97 |
| 69) epichlorohydrin | 5.678 | 57 | 125538 | 216.96 | ug/L | | 96 |
| 70) 4-methyl-2-pentanone | 5.864 | 58 | 331702 | 176.24 | ug/L | | 97 |
| 71) 3-methyl-1-butanol | 5.890 | 70 | 135851 | 801.37 | ug/L | | 96 |
| 74) toluene | 6.054 | 92 | 291014 | 41.82 | ug/L | | 94 |
| 75) trans-1,3-dichloropropene | 6.224 | 75 | 192406 | 43.84 | ug/L | | 95 |
| 76) ethyl methacrylate | 6.243 | 69 | 208177 | 46.19 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 6.394 | 83 | 106545 | 45.60 | ug/L | | 99 |
| 78) 2-hexanone | 6.557 | 58 | 344262 | 164.30 | ug/L | | 94 |
| 79) tetrachloroethene | 6.487 | 166 | 123455 | 42.85 | ug/L | | 93 |
| 80) 1,3-dichloropropane | 6.538 | 76 | 199658 | 43.16 | ug/L | | 99 |
| 81) butyl acetate | 6.638 | 56 | 131337 | 45.66 | ug/L | | 98 |
| 82) dibromochloromethane | 6.728 | 129 | 123839 | 43.30 | ug/L | | 98 |
| 83) 1,2-dibromoethane | 6.843 | 107 | 131750 | 45.55 | ug/L | | 99 |
| 84) n-butyl ether | 7.312 | 57 | 549131 | 45.14 | ug/L | | 99 |
| 85) chlorobenzene | 7.270 | 112 | 308209 | 43.85 | ug/L | | 96 |
| 86) 1,1,1,2-tetrachloroethane | 7.340 | 131 | 103408 | 43.44 | ug/L | | 99 |
| 87) ethylbenzene | 7.344 | 91 | 507637 | 40.32 | ug/L | | 98 |
| 88) m,p-xylene | 7.456 | 106 | 404828 | 82.54 | ug/L | | 100 |
| 89) o-xylene | 7.812 | 106 | 210162 | 43.38 | ug/L | | 98 |
| 90) butyl acrylate | 7.732 | 55 | 326517 | 47.28 | ug/L | | 98 |
| 91) styrene | 7.831 | 104 | 338253 | 42.36 | ug/L | | 98 |
| 92) bromoform | 8.011 | 173 | 91505 | 42.18 | ug/L | | 98 |
| 93) isopropylbenzene | 8.149 | 105 | 536032 | 42.47 | ug/L | | 99 |
| 94) cis-1,4-dichloro-2-butene | 8.204 | 88 | 42722 | 33.27 | ug/L | | 98 |
| 97) bromobenzene | 8.460 | 156 | 123513 | 46.00 | ug/L | | 95 |
| 98) 1,1,2,2-tetrachloroethane | 8.435 | 83 | 192551 | 46.58 | ug/L | | 98 |
| 99) trans-1,4-dichloro-2-b... | 8.473 | 53 | 37228 | 35.67 | ug/L | # | 79 |
| 100) 1,2,3-trichloropropane | 8.496 | 110 | 52198 | 46.77 | ug/L | | 97 |
| 101) n-propylbenzene | 8.541 | 91 | 578333 | 44.86 | ug/L | | 99 |
| 102) 2-chlorotoluene | 8.640 | 126 | 117329 | 46.03 | ug/L | | 99 |
| 103) 4-chlorotoluene | 8.752 | 126 | 117192 | 45.88 | ug/L | # | 85 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348801.d
Acq On : 29 Oct 2022 11:38 am
Operator : BridgetK
Sample : bs Inst : GCMSL
Misc : MS46075,VL10552,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:24:07 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

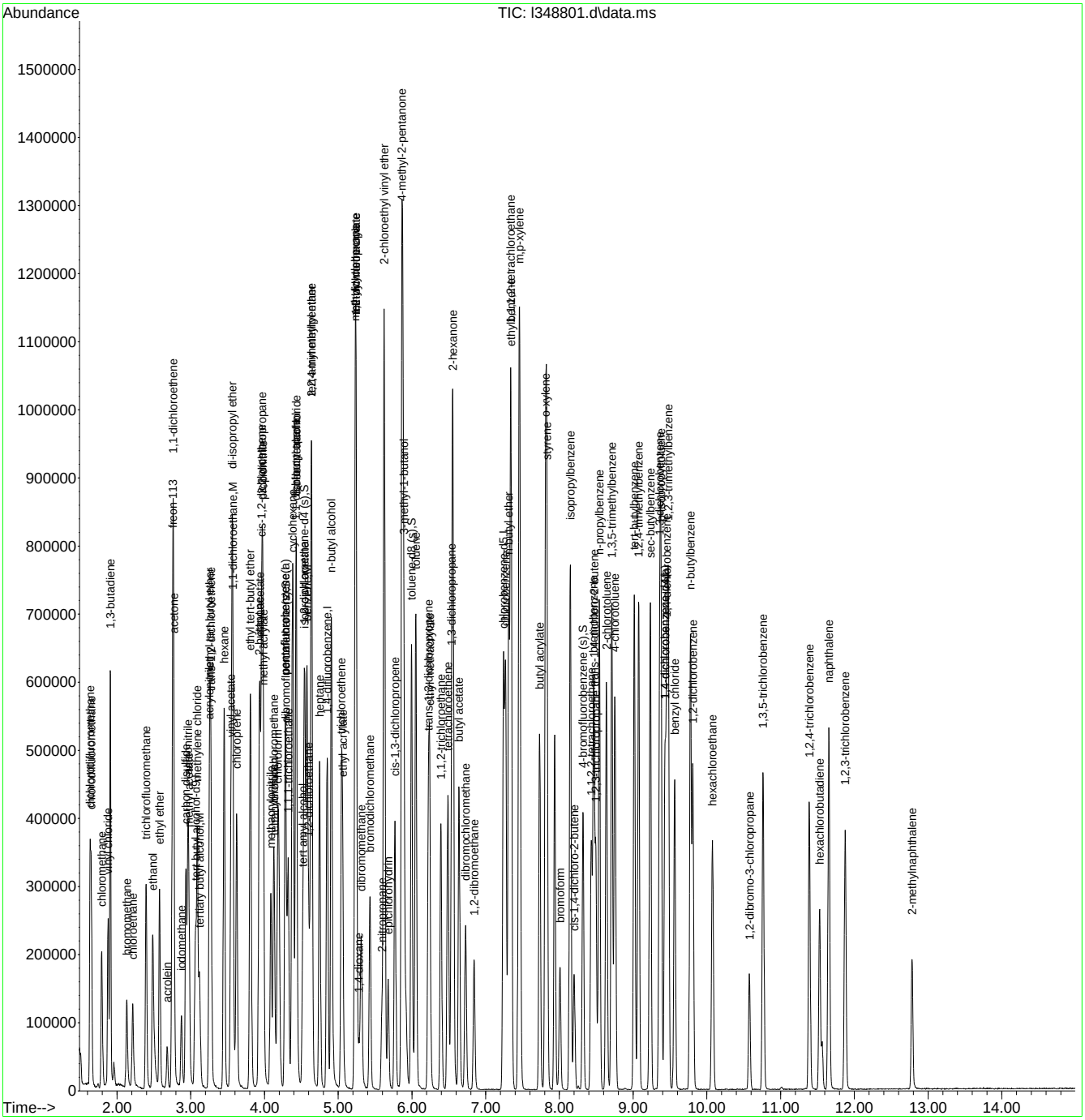
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) 1,3,5-trimethylbenzene | 8.711 | 105 | 410462 | 43.95 | ug/L | 98 |
| 105) tert-butylbenzene | 9.015 | 119 | 358620 | 45.11 | ug/L | 99 |
| 106) 1,2,4-trimethylbenzene | 9.073 | 105 | 407438 | 44.60 | ug/L | 99 |
| 107) sec-butylbenzene | 9.234 | 105 | 527073 | 45.36 | ug/L | 98 |
| 108) 1,3-dichlorobenzene | 9.362 | 146 | 217828 | 46.59 | ug/L | 99 |
| 109) p-isopropyltoluene | 9.378 | 119 | 391974 | 43.51 | ug/L | 98 |
| 110) 1,4-dichlorobenzene | 9.455 | 146 | 208592 | 45.57 | ug/L | 99 |
| 111) 1,2,3-trimethylbenzene | 9.474 | 105 | 392852 | 44.87 | ug/L | 98 |
| 112) 1,2-dichlorobenzene | 9.811 | 146 | 202919 | 45.93 | ug/L | 97 |
| 113) n-butylbenzene | 9.776 | 92 | 218246 | 47.56 | ug/L | 94 |
| 114) 1,2-dibromo-3-chloropr... | 10.581 | 157 | 49726 | 46.72 | ug/L | 97 |
| 115) 1,3,5-trichlorobenzene | 10.761 | 180 | 157963 | 50.67 | ug/L | 96 |
| 116) 1,2,4-trichlorobenzene | 11.390 | 180 | 136303 | 52.41 | ug/L | 98 |
| 117) hexachlorobutadiene | 11.531 | 225 | 54996 | 47.54 | ug/L | 91 |
| 118) naphthalene | 11.653 | 128 | 431543 | 48.53 | ug/L | 99 |
| 119) 1,2,3-trichlorobenzene | 11.875 | 180 | 123406 | 49.66 | ug/L | 97 |
| 120) hexachloroethane | 10.074 | 119 | 80238 | 47.24 | ug/L | 98 |
| 121) benzyl chloride | 9.564 | 91 | 344142 | 48.85 | ug/L | 99 |
| 122) 2-methylnaphthalene | 12.783 | 142 | 102005 | 23.02 | ug/L | 94 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348801.d
Acq On : 29 Oct 2022 11:38 am
Operator : BridgetK
Sample : bs Inst : GCMSL
Misc : MS46075,VL10552,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:24:07 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
MoHui Huang
11/01/22 21:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221296.d
Acq On : 28 Oct 2022 3:05 am
Operator : nickw
Sample : jd54302-4ms Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 03:10:24 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.246 | 65 | 336992 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.505 | 168 | 692668 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.433 | 114 | 939455 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.558 | 117 | 757568 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 391814 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 300051 | 49.12 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.24% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.951 | 65 | 316966 | 42.88 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 85.76% | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 972253 | 50.45 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.90% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 347029 | 46.85 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.70% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 5.972 | 45 | 320229 | 4717.99 | ug/L | 98 |
| 3) tertiary butyl alcohol | 7.356 | 59 | 198227 | 229.76 | ug/L | 89 |
| 4) 1,4-dioxane | 11.078 | 88 | 61359 | 1215.82 | ug/L | 91 |
| 6) chlorodifluoromethane | 3.990 | 51 | 283130 | 29.43 | ug/L | 97 |
| 7) dichlorodifluoromethane | 3.958 | 85 | 321919 | 44.06 | ug/L | 99 |
| 8) chloromethane | 4.346 | 50 | 253359 | 23.28 | ug/L | 98 |
| 9) vinyl chloride | 4.572 | 62 | 221873 | 26.65 | ug/L | 97 |
| 10) 1,3-butadiene | 4.619 | 54 | 133749 | 21.13 | ug/L | 94 |
| 11) bromomethane | 5.190 | 94 | 196054 | 38.49 | ug/L | 96 |
| 12) chloroethane | 5.358 | 64 | 177294 | 39.78 | ug/L | 96 |
| 13) trichlorofluoromethane | 5.793 | 101 | 385568 | 43.02 | ug/L | 100 |
| 14) ethyl ether | 6.192 | 74 | 122401 | 39.32 | ug/L | 93 |
| 15) acrolein | 6.412 | 56 | 49367 | 36.79 | ug/L | 83 |
| 16) freon 113 | 6.611 | 151 | 190912 | 39.12 | ug/L | 95 |
| 17) 1,1-dichloroethene | 6.601 | 96 | 189346 | 37.17 | ug/L | 90 |
| 18) acetone | 6.601 | 43 | 308035 | 82.58 | ug/L | 91 |
| 19) acetonitrile | 7.015 | 41 | 374248 | 401.43 | ug/L | 95 |
| 20) iodomethane | 6.842 | 142 | 412496 | 42.47 | ug/L | 97 |
| 21) carbon disulfide | 6.984 | 76 | 622275 | 35.40 | ug/L | 93 |
| 22) methylene chloride | 7.298 | 84 | 226264 | 39.86 | ug/L | 91 |
| 23) methyl acetate | 7.057 | 43 | 219161 | 35.67 | ug/L | 96 |
| 24) methyl tert butyl ether | 7.655 | 73 | 649058 | 40.46 | ug/L | 95 |
| 25) trans-1,2-dichloroethene | 7.686 | 96 | 218346 | 38.03 | ug/L | 92 |
| 26) hexane | 8.037 | 57 | 357045 | 31.29 | ug/L | 97 |
| 27) di-isopropyl ether | 8.252 | 45 | 888467 | 35.86 | ug/L | 97 |
| 28) ethyl tert-butyl ether | 8.709 | 59 | 850692 | 39.71 | ug/L | 98 |
| 29) 2-butanone | 8.903 | 72 | 116533 | 146.34 | ug/L | 94 |
| 30) 1,1-dichloroethane | 8.252 | 63 | 417848 | 37.70 | ug/L | 100 |
| 31) chloroprene | 8.357 | 53 | 378306 | 35.90 | ug/L | 94 |
| 33) vinyl acetate | 8.200 | 86 | 49407 | 58.89 | ug/L # | 65 |
| 34) ethyl acetate | 8.918 | 45 | 47280 | 39.52 | ug/L | 86 |
| 35) 2,2-dichloropropane | 8.997 | 77 | 270539 | 32.42 | ug/L | 98 |
| 36) cis-1,2-dichloroethene | 8.965 | 96 | 636559 | 103.01 | ug/L | 92 |
| 37) propionitrile | 8.976 | 54 | 436851 | 440.13 | ug/L | 88 |
| 38) bromochloromethane | 9.259 | 130 | 177026 | 44.88 | ug/L | 89 |
| 39) tetrahydrofuran | 9.280 | 42 | 91048 | 39.00 | ug/L | 94 |
| 40) chloroform | 9.348 | 83 | 406652 | 38.60 | ug/L | 95 |
| 41) tert-butyl formate | 9.385 | 59 | 150218 | 35.89 | ug/L | 96 |
| 42) isobutyl alcohol | 9.747 | 43 | 153679 | 412.08 | ug/L | 90 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221296.d
Acq On : 28 Oct 2022 3:05 am
Operator : nickw
Sample : jd54302-4ms Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 03:10:24 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) methacrylonitrile | 9.175 | 67 | 109674 | 44.86 | ug/L | | 86 |
| 45) 1,1,1-trichloroethane | 9.605 | 97 | 357698 | 39.74 | ug/L | | 96 |
| 46) cyclohexane | 9.715 | 84 | 340224 | 39.49 | ug/L | # | 84 |
| 47) 1,1-dichloropropene | 9.773 | 75 | 286607 | 37.41 | ug/L | | 95 |
| 48) tert-amyl alcohol | 9.904 | 73 | 85252 | 216.76 | ug/L | | 97 |
| 49) carbon tetrachloride | 9.799 | 117 | 324813 | 41.57 | ug/L | | 99 |
| 52) 2,2,4-trimethylpentane | 10.114 | 57 | 894093 | 34.13 | ug/L | | 96 |
| 53) tert-amyl methyl ether | 10.103 | 73 | 718509 | 41.51 | ug/L | | 98 |
| 54) n-butyl alcohol | 10.491 | 56 | 508376 | 2278.37 | ug/L | | 93 |
| 55) benzene | 10.019 | 78 | 843291 | 39.49 | ug/L | | 98 |
| 56) heptane | 10.276 | 57 | 183100 | 36.26 | ug/L | | 99 |
| 57) isopropyl acetate | 9.935 | 87 | 56813 | 45.90 | ug/L | # | 78 |
| 58) 1,2-dichloroethane | 10.046 | 62 | 329973 | 36.37 | ug/L | | 97 |
| 59) trichloroethene | 10.743 | 95 | 443823 | 74.60 | ug/L | | 98 |
| 60) ethyl acrylate | 10.732 | 55 | 406959 | 42.65 | ug/L | | 99 |
| 61) 2-nitropropane | 11.498 | 41 | 64436m | 40.25 | ug/L | | |
| 63) methyl methacrylate | 11.000 | 100 | 71193 | 46.40 | ug/L | # | 73 |
| 64) 1,2-dichloropropane | 11.031 | 63 | 254815 | 40.47 | ug/L | | 100 |
| 65) methylcyclohexane | 11.042 | 83 | 356516 | 36.11 | ug/L | | 95 |
| 66) dibromomethane | 11.141 | 93 | 153496 | 44.82 | ug/L | | 94 |
| 67) bromodichloromethane | 11.293 | 83 | 329474 | 42.46 | ug/L | | 100 |
| 68) epichlorohydrin | 11.618 | 57 | 144852 | 205.09 | ug/L | | 96 |
| 69) cis-1,3-dichloropropene | 11.755 | 75 | 376774 | 40.85 | ug/L | | 87 |
| 70) 4-methyl-2-pentanone | 11.860 | 58 | 474007 | 176.55 | ug/L | | 87 |
| 71) 3-methyl-1-butanol | 11.865 | 70 | 146738 | 903.48 | ug/L | | 89 |
| 74) toluene | 12.132 | 92 | 514716 | 43.00 | ug/L | | 99 |
| 75) trans-1,3-dichloropropene | 12.316 | 75 | 332767 | 44.25 | ug/L | | 100 |
| 76) ethyl methacrylate | 12.316 | 69 | 311654 | 47.59 | ug/L | | 88 |
| 77) 1,1,2-trichloroethane | 12.536 | 83 | 182954 | 47.50 | ug/L | | 95 |
| 78) 2-hexanone | 12.704 | 58 | 451815 | 167.96 | ug/L | # | 87 |
| 79) tetrachloroethene | 12.683 | 166 | 273113 | 43.48 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 12.714 | 76 | 323776 | 44.44 | ug/L | | 100 |
| 81) butyl acetate | 12.788 | 56 | 197728 | 45.73 | ug/L | | 87 |
| 82) dibromochloromethane | 12.961 | 129 | 293563 | 52.68 | ug/L | | 97 |
| 83) 1,2-dibromoethane | 13.113 | 107 | 239931 | 49.14 | ug/L | | 99 |
| 84) n-butyl ether | 13.558 | 57 | 968593 | 38.73 | ug/L | | 98 |
| 85) chlorobenzene | 13.595 | 112 | 599999 | 44.92 | ug/L | | 95 |
| 86) 1,1,1,2-tetrachloroethane | 13.658 | 131 | 251300 | 49.41 | ug/L | | 99 |
| 87) ethylbenzene | 13.653 | 91 | 900084 | 41.03 | ug/L | | 99 |
| 88) m,p-xylene | 13.773 | 106 | 731814 | 85.68 | ug/L | | 98 |
| 89) o-xylene | 14.172 | 91 | 726861 | 41.97 | ug/L | | 98 |
| 90) styrene | 14.188 | 104 | 600022 | 44.71 | ug/L | | 99 |
| 91) n-amyl acetate | 14.219 | 70 | 150064 | 44.48 | ug/L | # | 86 |
| 92) bromoform | 14.408 | 173 | 215171 | 56.80 | ug/L | | 98 |
| 93) butyl acrylate | 14.009 | 55 | 561518 | 45.48 | ug/L | | 98 |
| 94) isopropylbenzene | 14.523 | 105 | 896385 | 41.66 | ug/L | | 98 |
| 95) cis-1,4-dichloro-2-butene | 14.560 | 88 | 86045 | 44.55 | ug/L | # | 83 |
| 98) bromobenzene | 14.901 | 156 | 294134 | 46.43 | ug/L | | 89 |
| 99) 1,1,2,2-tetrachloroethane | 14.801 | 83 | 276686 | 46.96 | ug/L | | 98 |
| 100) trans-1,4-dichloro-2-b... | 14.832 | 53 | 62708 | 37.08 | ug/L | | 88 |
| 101) 1,2,3-trichloropropane | 14.885 | 110 | 75445 | 49.45 | ug/L | | 98 |
| 102) n-propylbenzene | 14.937 | 91 | 1011520 | 39.89 | ug/L | | 98 |
| 103) 2-chlorotoluene | 15.068 | 126 | 250105 | 44.55 | ug/L | | 89 |
| 104) 4-chlorotoluene | 15.178 | 91 | 647709 | 40.98 | ug/L | | 97 |
| 105) 1,3,5-trimethylbenzene | 15.095 | 105 | 722106 | 41.34 | ug/L | | 100 |
| 106) tert-butylbenzene | 15.430 | 119 | 672560 | 43.14 | ug/L | | 97 |
| 107) 1,2,4-trimethylbenzene | 15.483 | 105 | 732855 | 41.91 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221296.d
Acq On : 28 Oct 2022 3:05 am
Operator : nickw
Sample : jd54302-4ms Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 03:10:24 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

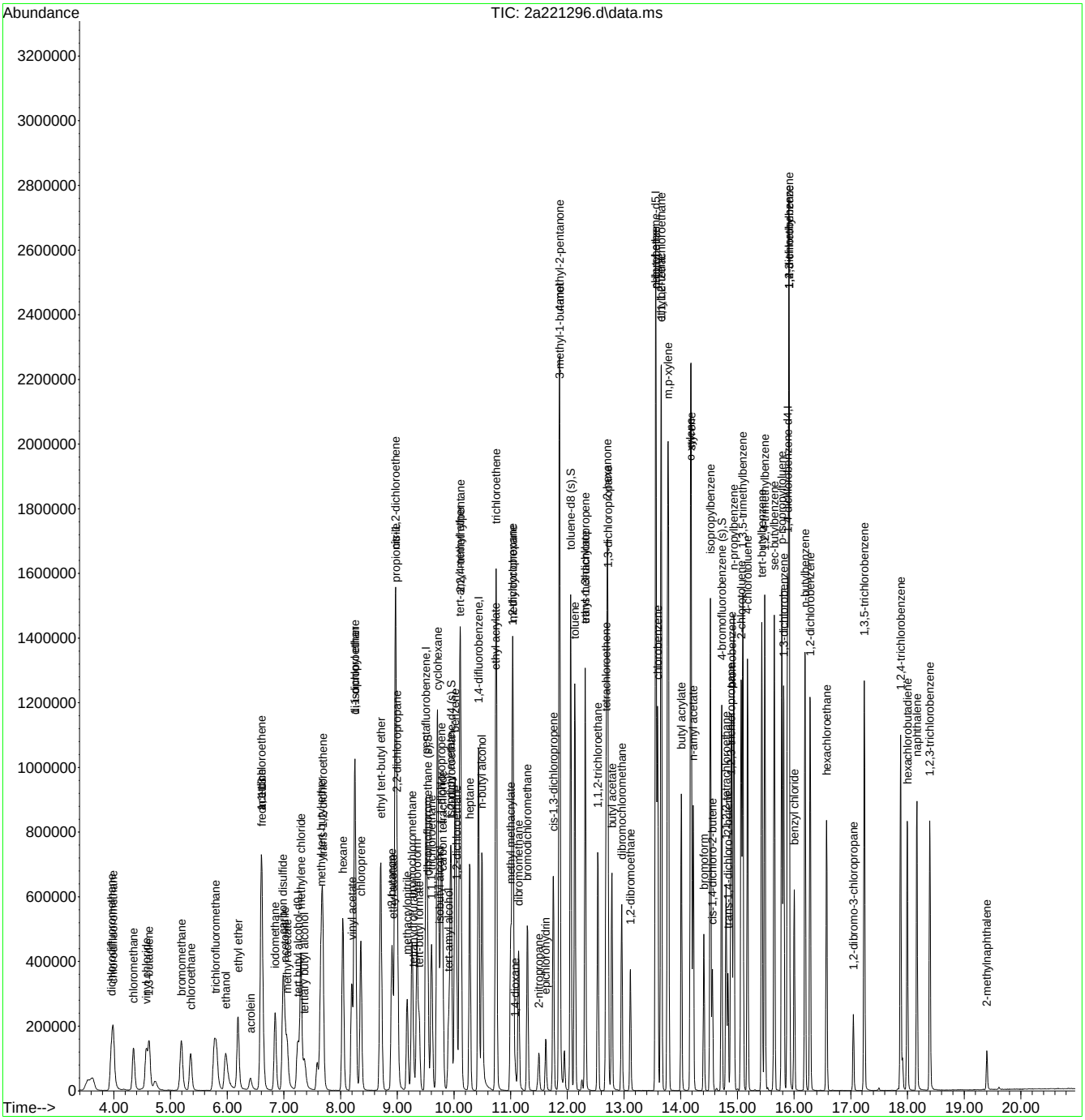
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 108) sec-butylbenzene | 15.650 | 105 | 906690 | 40.20 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 15.818 | 146 | 496089 | 43.56 | ug/L | 98 |
| 110) p-isopropyltoluene | 15.781 | 119 | 817311 | 42.63 | ug/L | 100 |
| 111) benzyl chloride | 16.002 | 91 | 384739 | 41.91 | ug/L | 99 |
| 112) 1,2,3-trimethylbenzene | 15.912 | 105 | 755134 | 42.36 | ug/L | 99 |
| 113) 1,4-dichlorobenzene | 15.912 | 146 | 501182 | 43.81 | ug/L | 98 |
| 114) 1,2-dichlorobenzene | 16.285 | 146 | 497127 | 45.59 | ug/L | 99 |
| 115) n-butylbenzene | 16.190 | 92 | 379082 | 40.36 | ug/L | 100 |
| 116) 1,2-dibromo-3-chloropr... | 17.045 | 157 | 68586 | 56.52 | ug/L | 98 |
| 117) 1,3,5-trichlorobenzene | 17.239 | 180 | 394173 | 47.46 | ug/L | 99 |
| 118) 1,2,4-trichlorobenzene | 17.879 | 180 | 337415 | 50.37 | ug/L | 99 |
| 119) hexachlorobutadiene | 17.999 | 225 | 169211 | 47.33 | ug/L | 97 |
| 120) naphthalene | 18.167 | 128 | 658762 | 53.26 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 18.392 | 180 | 272584 | 50.45 | ug/L | 98 |
| 122) hexachloroethane | 16.573 | 201 | 140735 | 50.64 | ug/L | 98 |
| 123) 2-methylnaphthalene | 19.399 | 142 | 60770 | 18.42 | ug/L | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221296.d
Acq On : 28 Oct 2022 3:05 am
Operator : nickw
Sample : jd54302-4ms Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 03:10:24 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



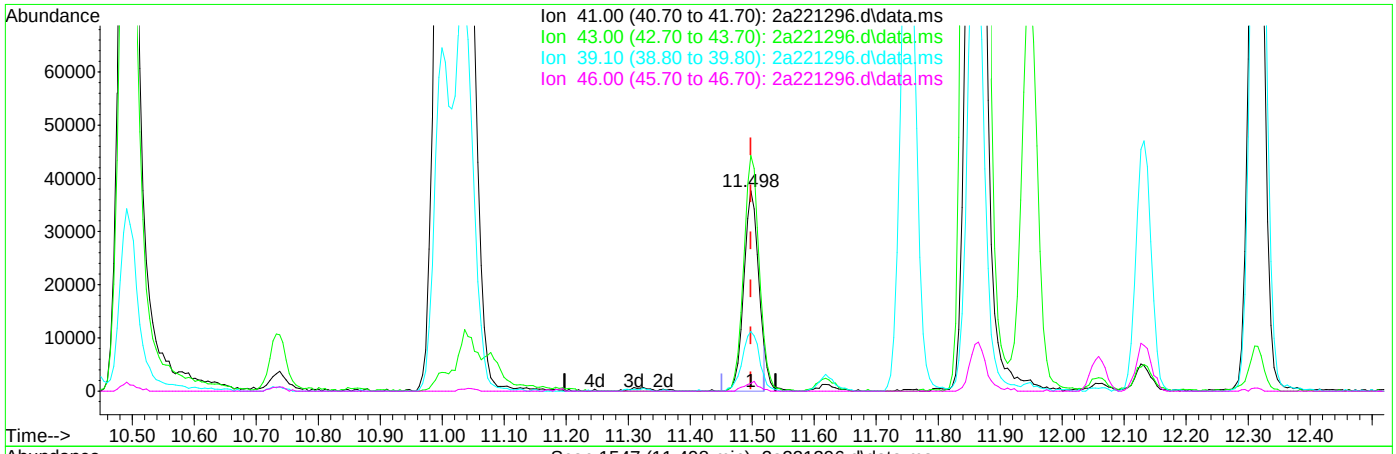
**Sample Number:** JD54302-4MS
**Lab FileID:** 2A221296.D
**Injection Time:** 10/28/22 03:05
**Method:** SW846 8260D
**Analyst approved:** 10/29/22 04:26 Nelson Festin
**Supervisor approved:** 11/01/22 21:04 MoHui Huang

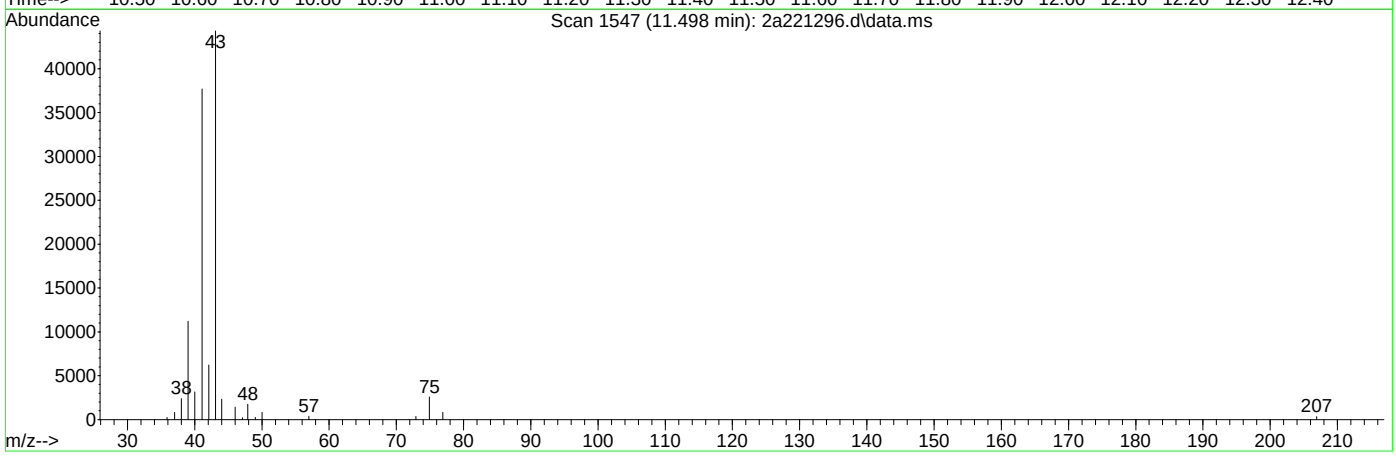
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| 2-Nitropropane | 79-46-9 | | 11.50 | Poor instrument integration |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221296.d
Acq On : 28 Oct 2022 3:05 am
Operator : nickw
Sample : jd54302-4ms Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 28 03:28:14 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration




TIC: 2a221296.d\data.ms

(61) 2-nitropropane

11.498min (+0.000) 38.70ug/L

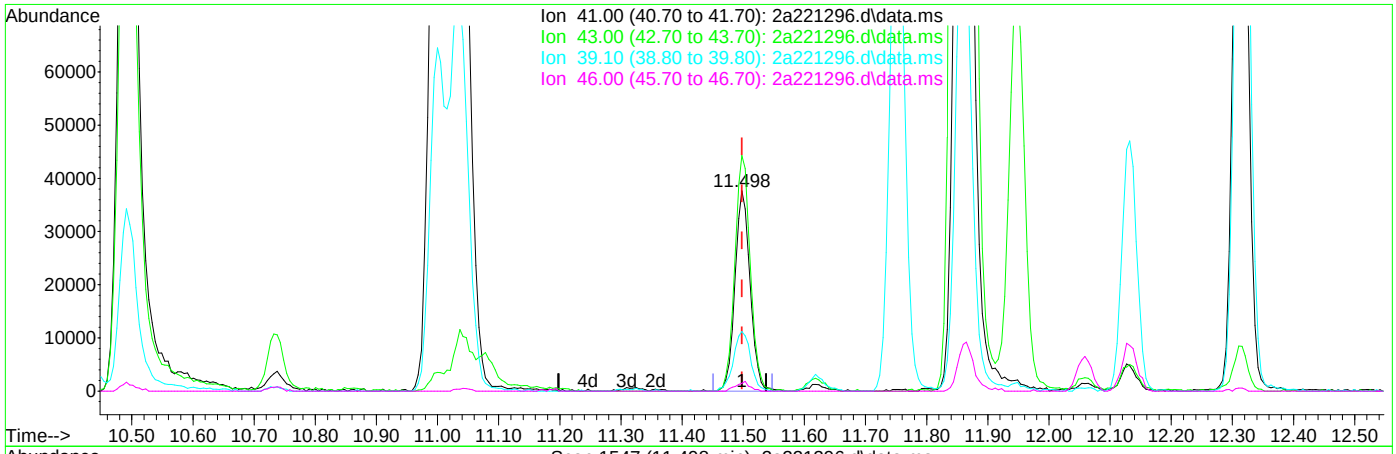
response 61958

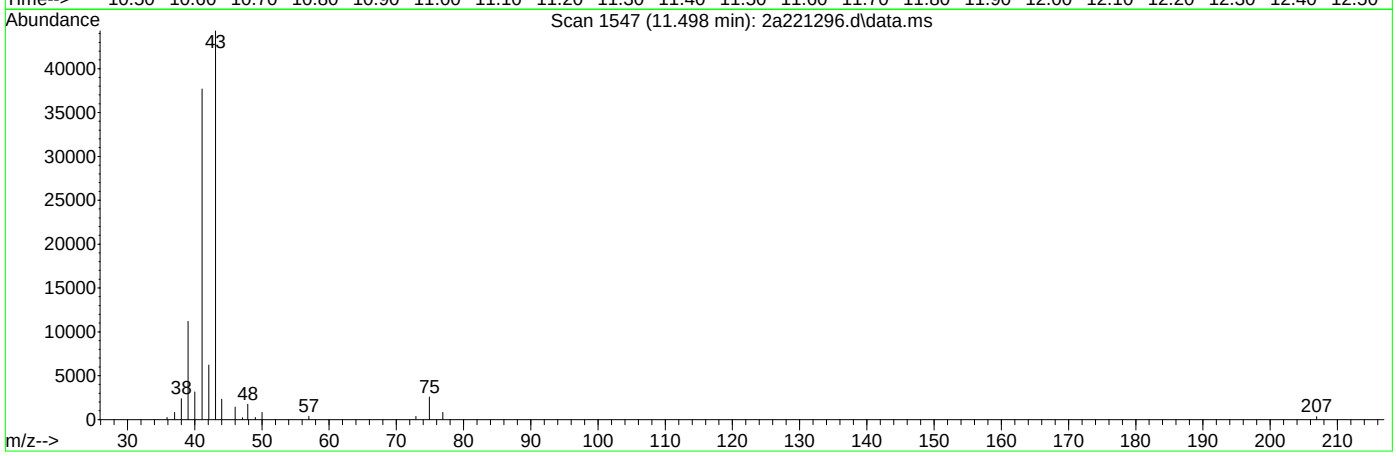
| Ion | Exp% | Act% |
|---|---|---|
| 41.00 | 100 | 100 |
| 43.00 | 121.10 | 117.58 |
| 39.10 | 36.30 | 29.70 |
| 46.00 | 3.40 | 3.79 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221296.d
Acq On : 28 Oct 2022 3:05 am
Operator : nickw
Sample : jd54302-4ms Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 28 03:28:14 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration




TIC: 2a221296.d\data.ms

(61) 2-nitropropane

11.498min (+0.000) 40.25ug/L m

response 64436

| Ion | Exp% | Act% |
|---|---|---|
| 41.00 | 100 | 100 |
| 43.00 | 121.10 | 117.58 |
| 39.10 | 36.30 | 29.70 |
| 46.00 | 3.40 | 3.79 |

Manual Integrations APPROVED (compounds with "m" flag)
MoHui Huang
11/01/22 21:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221297.d
Acq On : 28 Oct 2022 3:33 am
Operator : nickw
Sample : jd54302-4msd Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 03:12:17 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 7.240 | 65 | 352105 | 500.00 | ug/L | | -0.01 |
| 5) pentafluorobenzene | 9.505 | 168 | 722243 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 10.433 | 114 | 968078 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 13.558 | 117 | 771344 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 397974 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 9.532 | 113 | 310453 | 48.75 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.50% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.951 | 65 | 327528 | 43.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 86.00% | | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 995679 | 50.74 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.48% | | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 356927 | 47.44 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.88% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) ethanol | 5.966 | 45 | 340386 | 4799.72 | ug/L | | 95 |
| 3) tertiary butyl alcohol | 7.356 | 59 | 209452 | 232.35 | ug/L | | 90 |
| 4) 1,4-dioxane | 11.078 | 88 | 70251 | 1332.26 | ug/L | | 94 |
| 6) chlorodifluoromethane | 3.979 | 51 | 289504 | 28.86 | ug/L | | 96 |
| 7) dichlorodifluoromethane | 3.953 | 85 | 330911 | 43.44 | ug/L | | 99 |
| 8) chloromethane | 4.336 | 50 | 256870 | 22.64 | ug/L | | 97 |
| 9) vinyl chloride | 4.561 | 62 | 231081 | 26.62 | ug/L | | 96 |
| 10) 1,3-butadiene | 4.614 | 54 | 138356 | 20.96 | ug/L | | 97 |
| 11) bromomethane | 5.180 | 94 | 204567 | 38.52 | ug/L | | 100 |
| 12) chloroethane | 5.348 | 64 | 186164 | 40.06 | ug/L | | 95 |
| 13) trichlorofluoromethane | 5.772 | 101 | 405129 | 43.35 | ug/L | | 99 |
| 14) ethyl ether | 6.186 | 74 | 127530 | 39.29 | ug/L | | 91 |
| 15) acrolein | 6.401 | 56 | 51099 | 36.52 | ug/L | | 88 |
| 16) freon 113 | 6.601 | 151 | 200817 | 39.47 | ug/L | | 92 |
| 17) 1,1-dichloroethene | 6.590 | 96 | 200937 | 37.83 | ug/L | | 88 |
| 18) acetone | 6.595 | 43 | 319198 | 82.07 | ug/L | | 89 |
| 19) acetonitrile | 7.010 | 41 | 382160 | 393.13 | ug/L | | 97 |
| 20) iodomethane | 6.837 | 142 | 431886 | 42.64 | ug/L | | 96 |
| 21) carbon disulfide | 6.978 | 76 | 656704 | 35.83 | ug/L | | 93 |
| 22) methylene chloride | 7.293 | 84 | 236149 | 39.89 | ug/L | | 89 |
| 23) methyl acetate | 7.057 | 43 | 226002 | 35.28 | ug/L | | 92 |
| 24) methyl tert butyl ether | 7.649 | 73 | 678041 | 40.54 | ug/L | | 93 |
| 25) trans-1,2-dichloroethene | 7.681 | 96 | 232143 | 38.77 | ug/L | | 93 |
| 26) hexane | 8.037 | 57 | 378889 | 31.84 | ug/L | | 96 |
| 27) di-isopropyl ether | 8.247 | 45 | 905658 | 35.06 | ug/L | | 94 |
| 28) ethyl tert-butyl ether | 8.703 | 59 | 875970 | 39.22 | ug/L | | 98 |
| 29) 2-butanone | 8.897 | 72 | 122910 | 148.02 | ug/L | # | 84 |
| 30) 1,1-dichloroethane | 8.252 | 63 | 433657 | 37.52 | ug/L | | 99 |
| 31) chloroprene | 8.352 | 53 | 383565 | 34.91 | ug/L | | 91 |
| 33) vinyl acetate | 8.189 | 86 | 52074 | 59.53 | ug/L | # | 59 |
| 34) ethyl acetate | 8.913 | 45 | 47532 | 38.10 | ug/L | | 92 |
| 35) 2,2-dichloropropane | 8.992 | 77 | 276453 | 31.77 | ug/L | | 97 |
| 36) cis-1,2-dichloroethene | 8.960 | 96 | 656211 | 101.84 | ug/L | | 91 |
| 37) propionitrile | 8.976 | 54 | 455648 | 440.27 | ug/L | | 96 |
| 38) bromochloromethane | 9.254 | 130 | 186967 | 45.46 | ug/L | | 88 |
| 39) tetrahydrofuran | 9.275 | 42 | 94887 | 38.98 | ug/L | | 93 |
| 40) chloroform | 9.343 | 83 | 419909 | 38.23 | ug/L | | 94 |
| 41) tert-butyl formate | 9.385 | 59 | 152769 | 35.01 | ug/L | | 95 |
| 42) isobutyl alcohol | 9.741 | 43 | 153775 | 395.45 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221297.d
Acq On : 28 Oct 2022 3:33 am
Operator : nickw
Sample : jd54302-4msd Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 03:12:17 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 44) | methacrylonitrile | 9.170 | 67 | 116840 | 45.83 | ug/L | # | 82 |
| 45) | 1,1,1-trichloroethane | 9.600 | 97 | 372559 | 39.70 | ug/L | | 95 |
| 46) | cyclohexane | 9.710 | 84 | 352462 | 39.24 | ug/L | | 87 |
| 47) | 1,1-dichloropropene | 9.773 | 75 | 299957 | 37.55 | ug/L | | 95 |
| 48) | tert-amyl alcohol | 9.904 | 73 | 90726 | 221.23 | ug/L | | 92 |
| 49) | carbon tetrachloride | 9.799 | 117 | 337641 | 41.44 | ug/L | | 98 |
| 52) | 2,2,4-trimethylpentane | 10.114 | 57 | 934614 | 34.62 | ug/L | | 95 |
| 53) | tert-amyl methyl ether | 10.103 | 73 | 739811 | 41.48 | ug/L | | 96 |
| 54) | n-butyl alcohol | 10.491 | 56 | 549091 | 2388.08 | ug/L | | 93 |
| 55) | benzene | 10.014 | 78 | 889648 | 40.43 | ug/L | | 98 |
| 56) | heptane | 10.276 | 57 | 191388 | 36.78 | ug/L | | 99 |
| 57) | isopropyl acetate | 9.935 | 87 | 59690 | 46.80 | ug/L | # | 60 |
| 58) | 1,2-dichloroethane | 10.040 | 62 | 339799 | 36.34 | ug/L | | 99 |
| 59) | trichloroethene | 10.743 | 95 | 460171 | 75.07 | ug/L | | 95 |
| 60) | ethyl acrylate | 10.732 | 55 | 423733 | 43.09 | ug/L | | 98 |
| 61) | 2-nitropropane | 11.498 | 41 | 65473m | 39.68 | ug/L | | |
| 63) | methyl methacrylate | 11.005 | 100 | 77285 | 48.88 | ug/L | # | 57 |
| 64) | 1,2-dichloropropane | 11.031 | 63 | 267033 | 41.16 | ug/L | | 98 |
| 65) | methylcyclohexane | 11.042 | 83 | 379214 | 37.27 | ug/L | | 95 |
| 66) | dibromomethane | 11.136 | 93 | 160846 | 45.58 | ug/L | | 94 |
| 67) | bromodichloromethane | 11.293 | 83 | 343327 | 42.94 | ug/L | | 96 |
| 68) | epichlorohydrin | 11.618 | 57 | 150066 | 206.19 | ug/L | | 95 |
| 69) | cis-1,3-dichloropropene | 11.749 | 75 | 392131 | 41.26 | ug/L | | 89 |
| 70) | 4-methyl-2-pentanone | 11.859 | 58 | 493397 | 178.34 | ug/L | # | 86 |
| 71) | 3-methyl-1-butanol | 11.865 | 70 | 157830 | 943.04 | ug/L | # | 84 |
| 74) | toluene | 12.132 | 92 | 538887 | 44.22 | ug/L | | 99 |
| 75) | trans-1,3-dichloropropene | 12.316 | 75 | 345587 | 45.13 | ug/L | | 97 |
| 76) | ethyl methacrylate | 12.316 | 69 | 327544 | 49.13 | ug/L | | 86 |
| 77) | 1,1,2-trichloroethane | 12.536 | 83 | 191504 | 48.83 | ug/L | | 94 |
| 78) | 2-hexanone | 12.704 | 58 | 471976 | 172.32 | ug/L | # | 88 |
| 79) | tetrachloroethene | 12.683 | 166 | 292911 | 45.80 | ug/L | | 99 |
| 80) | 1,3-dichloropropane | 12.714 | 76 | 337292 | 45.47 | ug/L | | 99 |
| 81) | butyl acetate | 12.787 | 56 | 209298 | 47.54 | ug/L | | 85 |
| 82) | dibromochloromethane | 12.960 | 129 | 305688 | 53.87 | ug/L | | 98 |
| 83) | 1,2-dibromoethane | 13.113 | 107 | 251928 | 50.68 | ug/L | | 99 |
| 84) | n-butyl ether | 13.558 | 57 | 1015841 | 39.89 | ug/L | | 98 |
| 85) | chlorobenzene | 13.590 | 112 | 628428 | 46.20 | ug/L | | 97 |
| 86) | 1,1,1,2-tetrachloroethane | 13.658 | 131 | 263347 | 50.85 | ug/L | | 100 |
| 87) | ethylbenzene | 13.653 | 91 | 951061 | 42.58 | ug/L | | 99 |
| 88) | m,p-xylene | 13.773 | 106 | 765590 | 88.04 | ug/L | | 96 |
| 89) | o-xylene | 14.172 | 91 | 760120 | 43.10 | ug/L | | 99 |
| 90) | styrene | 14.187 | 104 | 631757 | 46.23 | ug/L | | 97 |
| 91) | n-amyl acetate | 14.219 | 70 | 154978 | 45.12 | ug/L | # | 83 |
| 92) | bromoform | 14.408 | 173 | 228337 | 59.20 | ug/L | | 100 |
| 93) | butyl acrylate | 14.009 | 55 | 581550 | 46.26 | ug/L | | 98 |
| 94) | isopropylbenzene | 14.523 | 105 | 939528 | 42.89 | ug/L | | 98 |
| 95) | cis-1,4-dichloro-2-butene | 14.560 | 88 | 91407 | 46.48 | ug/L | # | 84 |
| 98) | bromobenzene | 14.900 | 156 | 307616 | 47.80 | ug/L | | 88 |
| 99) | 1,1,2,2-tetrachloroethane | 14.801 | 83 | 293338 | 49.02 | ug/L | | 99 |
| 100) | trans-1,4-dichloro-2-b... | 14.832 | 53 | 66658 | 38.81 | ug/L | | 91 |
| 101) | 1,2,3-trichloropropane | 14.885 | 110 | 79865 | 51.53 | ug/L | | 95 |
| 102) | n-propylbenzene | 14.937 | 91 | 1055281 | 40.97 | ug/L | | 97 |
| 103) | 2-chlorotoluene | 15.068 | 126 | 259915 | 45.58 | ug/L | | 85 |
| 104) | 4-chlorotoluene | 15.178 | 91 | 678727 | 42.28 | ug/L | | 96 |
| 105) | 1,3,5-trimethylbenzene | 15.094 | 105 | 758324 | 42.74 | ug/L | | 99 |
| 106) | tert-butylbenzene | 15.430 | 119 | 697686 | 44.06 | ug/L | | 97 |
| 107) | 1,2,4-trimethylbenzene | 15.482 | 105 | 763705 | 43.00 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221297.d
Acq On : 28 Oct 2022 3:33 am
Operator : nickw
Sample : jd54302-4msd Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 03:12:17 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

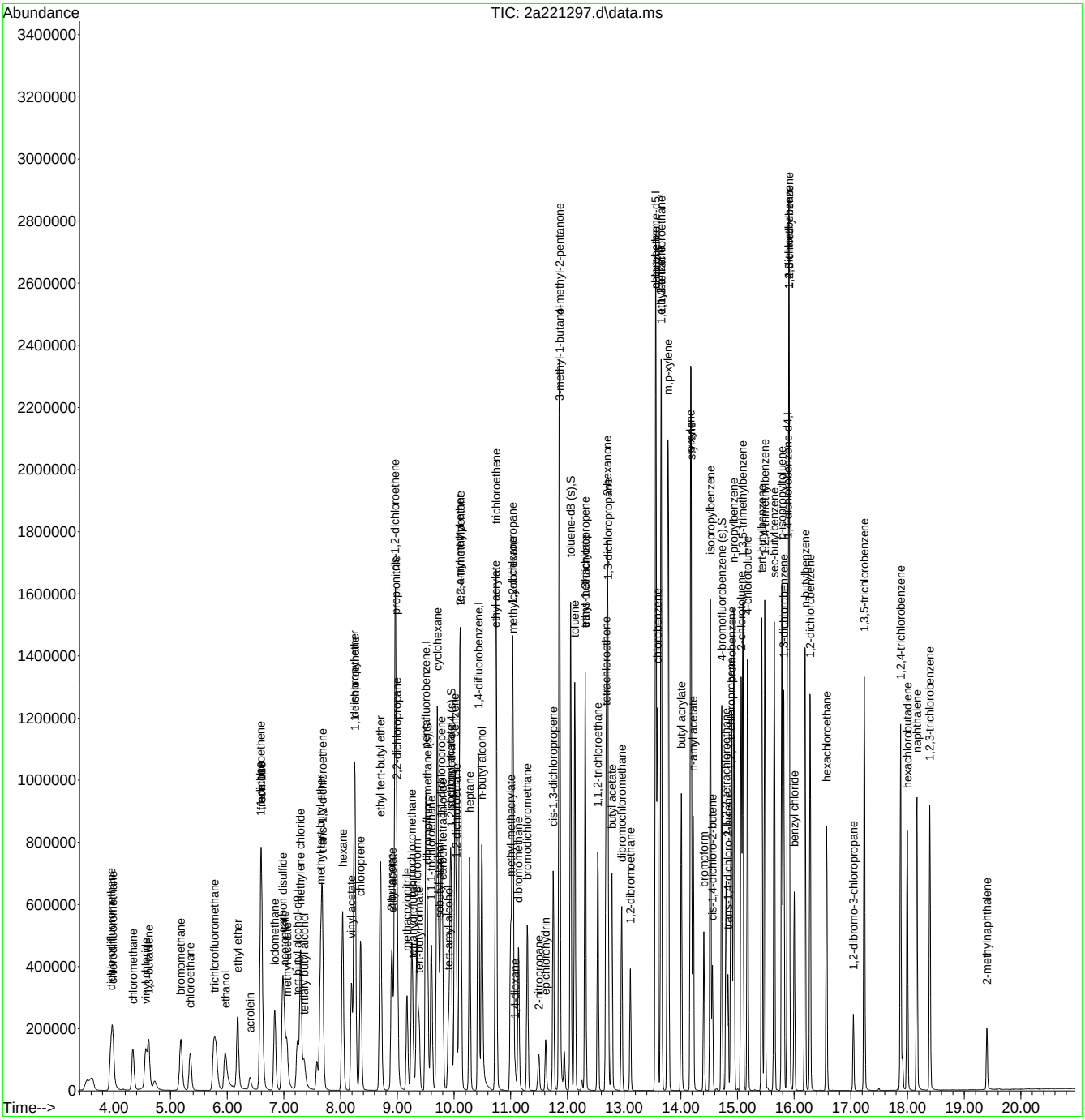
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 108) sec-butylbenzene | 15.650 | 105 | 939328 | 41.00 | ug/L | 98 |
| 109) 1,3-dichlorobenzene | 15.818 | 146 | 519869 | 44.94 | ug/L | 98 |
| 110) p-isopropyltoluene | 15.781 | 119 | 859019 | 44.11 | ug/L | 99 |
| 111) benzyl chloride | 16.001 | 91 | 397448 | 42.63 | ug/L | 98 |
| 112) 1,2,3-trimethylbenzene | 15.912 | 105 | 780958 | 43.13 | ug/L | 99 |
| 113) 1,4-dichlorobenzene | 15.907 | 146 | 517637 | 44.54 | ug/L | 98 |
| 114) 1,2-dichlorobenzene | 16.285 | 146 | 515380 | 46.54 | ug/L | 98 |
| 115) n-butylbenzene | 16.195 | 92 | 391726 | 41.06 | ug/L | 98 |
| 116) 1,2-dibromo-3-chloropr... | 17.045 | 157 | 72239 | 58.61 | ug/L | 98 |
| 117) 1,3,5-trichlorobenzene | 17.239 | 180 | 407526 | 48.31 | ug/L | 99 |
| 118) 1,2,4-trichlorobenzene | 17.878 | 180 | 359900 | 52.89 | ug/L | 98 |
| 119) hexachlorobutadiene | 17.999 | 225 | 177507 | 48.88 | ug/L | 97 |
| 120) naphthalene | 18.167 | 128 | 713513 | 56.79 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 18.392 | 180 | 295962 | 53.93 | ug/L | 95 |
| 122) hexachloroethane | 16.573 | 201 | 143124 | 50.70 | ug/L | 98 |
| 123) 2-methylnaphthalene | 19.404 | 142 | 103319 | 30.83 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221297.d
Acq On : 28 Oct 2022 3:33 am
Operator : nickw
Sample : jd54302-4msd Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 03:12:17 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



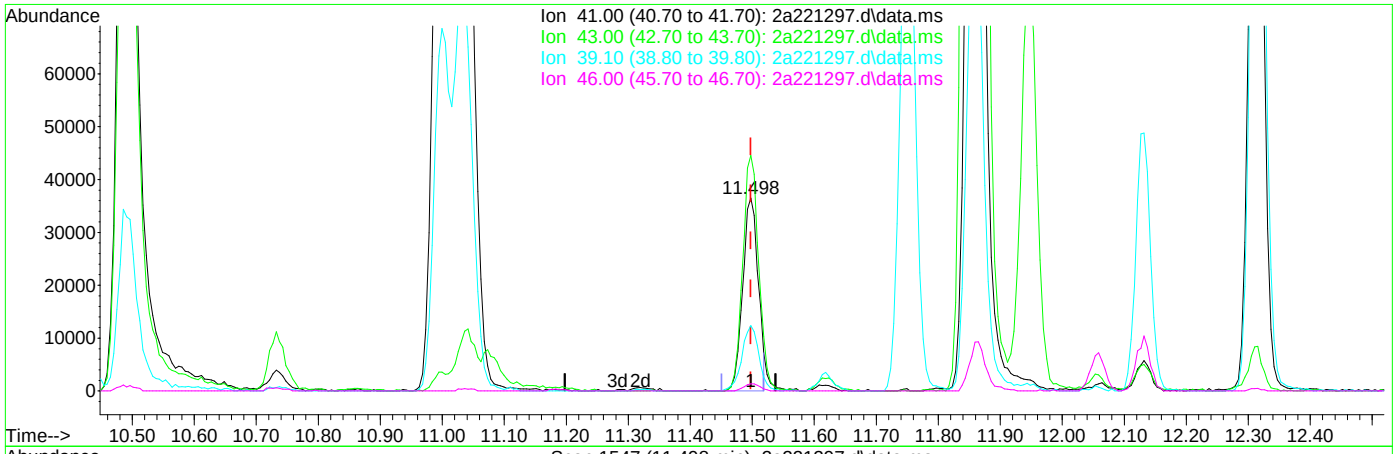
**Sample Number:** JD54302-4MSD
**Lab FileID:** 2A221297.D
**Injection Time:** 10/28/22 03:33
**Method:** SW846 8260D
**Analyst approved:** 10/29/22 04:26 Nelson Festin
**Supervisor approved:** 11/01/22 21:04 MoHui Huang

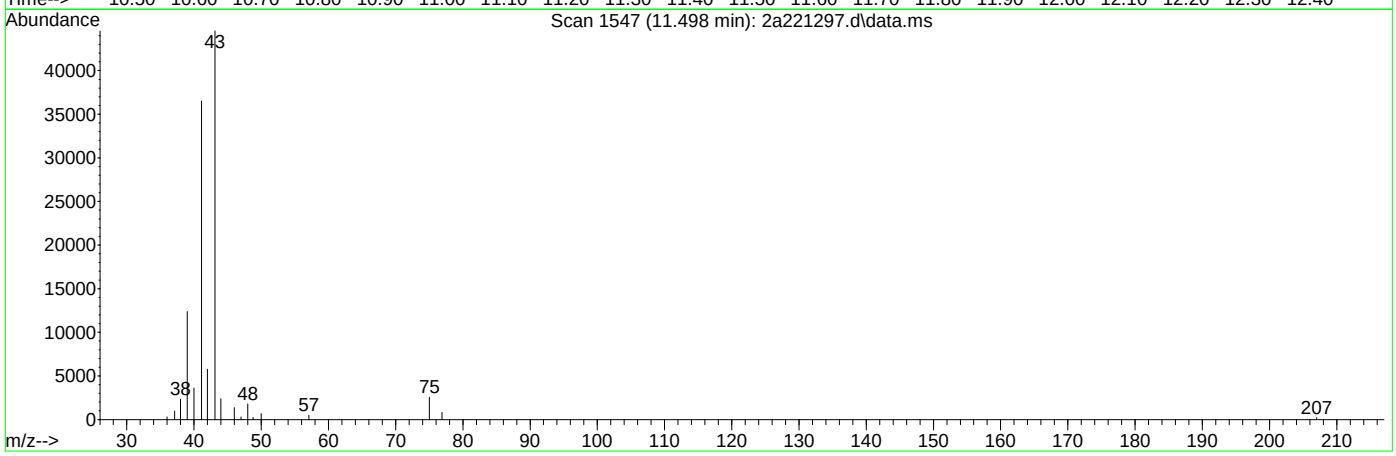
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| 2-Nitropropane | 79-46-9 | | 11.50 | Poor instrument integration |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221297.d
Acq On : 28 Oct 2022 3:33 am
Operator : nickw
Sample : jd54302-4msd Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 28 03:56:34 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration




TIC: 2a221297.d\data.ms

(61) 2-nitropropane

11.498min (-0.000) 38.27ug/L

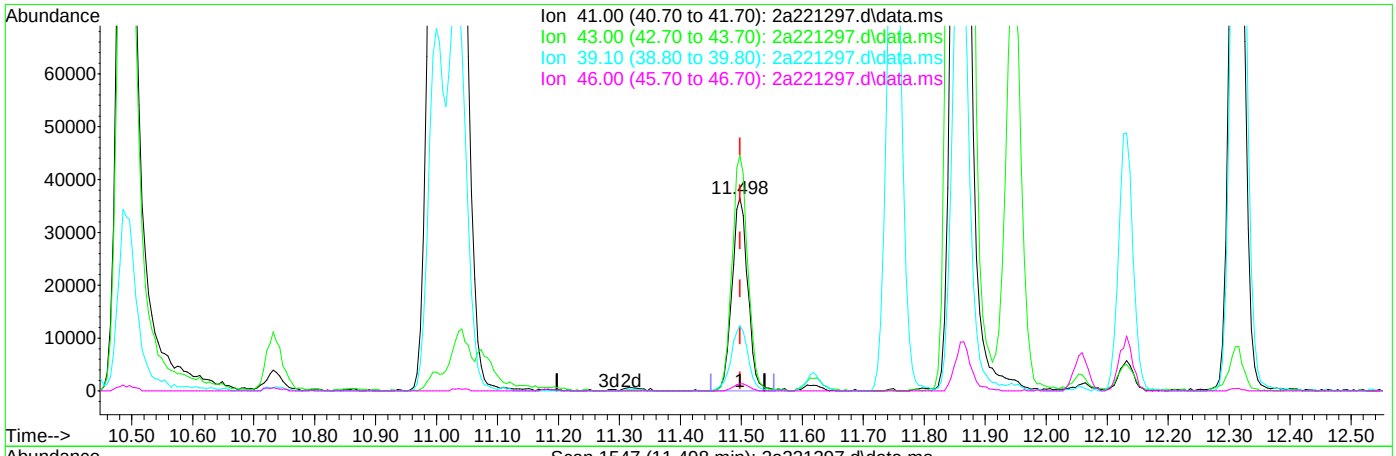
response 63132

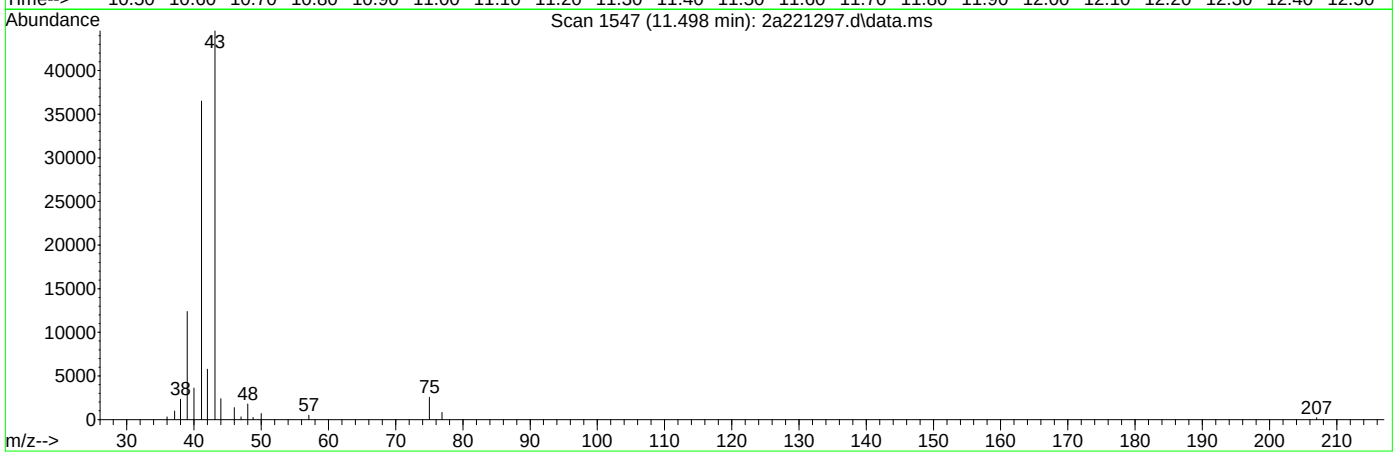
| Ion | Exp% | Act% |
|---|---|---|
| 41.00 | 100 | 100 |
| 43.00 | 121.10 | 122.02 |
| 39.10 | 36.30 | 33.96 |
| 46.00 | 3.40 | 3.76 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221297.d
Acq On : 28 Oct 2022 3:33 am
Operator : nickw
Sample : jd54302-4msd Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 28 03:56:34 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration




TIC: 2a221297.d\data.ms

(61) 2-nitropropane

11.498min (-0.000) 39.68ug/L m

response 65473

| Ion | Exp% | Act% |
|---|---|---|
| 41.00 | 100 | 100 |
| 43.00 | 121.10 | 122.02 |
| 39.10 | 36.30 | 33.96 |
| 46.00 | 3.40 | 3.76 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348811.d
Acq On : 29 Oct 2022 3:29 pm
Operator : BridgetK
Sample : jd54108-4ms Inst : GCMSL
Misc : MS63384,VL10552,5,,,,50
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 23:04:32 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.063 | 65 | 226681 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.279 | 168 | 219235 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.850 | 114 | 312116 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.238 | 117 | 298775 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.433 | 152 | 121679 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.279 | 168 | 219235 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.433 | 152 | 121601 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.289 | 113 | 90441 | 49.56 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.12% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.542 | 65 | 106943 | 50.04 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.08% | | | | |
| 73) toluene-d8 (s) | 5.993 | 98 | 376485 | 47.59 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.18% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.316 | 95 | 140914 | 50.35 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.70% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.280 | 88 | 42234 | 940.75 | ug/L | | 93 |
| 3) ethanol | 2.485 | 45 | 255147 | 4162.62 | ug/L | | 100 |
| 4) tertiary butyl alcohol | 3.117 | 59 | 161940 | 238.53 | ug/L | | 97 |
| 6) chlorodifluoromethane | 1.654 | 51 | 172934 | 40.55 | ug/L | # | 99 |
| 7) dichlorodifluoromethane | 1.635 | 85 | 166011 | 33.30 | ug/L | | 98 |
| 8) chloromethane | 1.795 | 50 | 113995 | 29.76 | ug/L | | 98 |
| 9) vinyl chloride | 1.879 | 62 | 125704 | 31.71 | ug/L | | 98 |
| 10) 1,3-butadiene | 1.908 | 54 | 158707 | 55.34 | ug/L | | 98 |
| 11) bromomethane | 2.132 | 96 | 47812 | 46.78 | ug/L | | 97 |
| 12) chloroethane | 2.213 | 64 | 69741 | 33.91 | ug/L | | 97 |
| 13) trichlorofluoromethane | 2.395 | 101 | 169336 | 39.68 | ug/L | | 100 |
| 14) ethyl ether | 2.578 | 74 | 83431 | 46.77 | ug/L | | 96 |
| 15) acrolein | 2.678 | 56 | 36931 | 41.85 | ug/L | | 95 |
| 16) freon 113 | 2.752 | 151 | 91280 | 44.99 | ug/L | | 99 |
| 17) 1,1-dichloroethene | 2.758 | 96 | 106636 | 44.72 | ug/L | | 96 |
| 18) acetone | 2.771 | 58 | 82450 | 140.11 | ug/L | | 97 |
| 19) acetonitrile | 2.963 | 40 | 143785 | 450.28 | ug/L | | 91 |
| 20) iodomethane | 2.874 | 142 | 73316 | 44.36 | ug/L | | 97 |
| 21) iso-butyl alcohol | 4.430 | 43 | 116767 | 428.07 | ug/L | | 97 |
| 22) carbon disulfide | 2.931 | 76 | 329374 | 40.63 | ug/L | | 99 |
| 23) methylene chloride | 3.089 | 84 | 126160 | 46.99 | ug/L | | 96 |
| 24) methyl acetate | 2.976 | 74 | 34364 | 44.77 | ug/L | # | 79 |
| 25) methyl tert butyl ether | 3.255 | 73 | 389866 | 48.31 | ug/L | | 99 |
| 26) trans-1,2-dichloroethene | 3.275 | 96 | 113003 | 44.93 | ug/L | | 97 |
| 27) hexane | 3.451 | 57 | 207316 | 44.52 | ug/L | | 97 |
| 28) di-isopropyl ether | 3.560 | 45 | 432419 | 47.61 | ug/L | | 91 |
| 29) ethyl tert-butyl ether | 3.811 | 59 | 436940 | 47.02 | ug/L | | 99 |
| 30) 2-butanone | 3.929 | 72 | 108223 | 172.46 | ug/L | # | 86 |
| 31) 1,1-dichloroethane | 3.570 | 63 | 228148 | 47.44 | ug/L | | 97 |
| 32) chloroprene | 3.618 | 53 | 197492 | 45.51 | ug/L | | 98 |
| 33) acrylonitrile | 3.236 | 53 | 65102 | 36.12 | ug/L | | 90 |
| 34) vinyl acetate | 3.544 | 86 | 35270 | 51.38 | ug/L | # | 87 |
| 35) ethyl acetate | 3.939 | 45 | 34427 | 44.75 | ug/L | # | 66 |
| 36) 2,2-dichloropropane | 3.968 | 77 | 178509 | 46.42 | ug/L | | 97 |
| 37) cis-1,2-dichloroethene | 3.958 | 96 | 124645 | 45.93 | ug/L | | 93 |
| 38) propionitrile | 3.974 | 54 | 300798 | 450.60 | ug/L | | 94 |
| 39) methyl acrylate | 3.984 | 85 | 28752 | 44.68 | ug/L | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348811.d
Acq On : 29 Oct 2022 3:29 pm
Operator : BridgetK
Sample : jd54108-4ms Inst : GCMSL
Misc : MS63384,VL10552,5,,,,50
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 23:04:32 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 40) bromochloromethane | 4.128 | 128 | 59095 | 49.37 | ug/L | 92 |
| 41) tetrahydrofuran | 4.135 | 72 | 31736 | 45.37 | ug/L | 93 |
| 42) chloroform | 4.180 | 83 | 216556 | 46.15 | ug/L | 98 |
| 44) methacrylonitrile | 4.083 | 67 | 83483 | 45.57 | ug/L | 95 |
| 45) 1,1,1-trichloroethane | 4.318 | 97 | 178939 | 45.78 | ug/L | 93 |
| 46) cyclohexane | 4.375 | 84 | 126426 | 30.99 | ug/L | 90 |
| 47) 1,1-dichloropropene | 4.423 | 75 | 162497 | 45.93 | ug/L | 99 |
| 48) carbon tetrachloride | 4.430 | 117 | 141095 | 45.35 | ug/L | 99 |
| 49) isopropyl acetate | 4.545 | 87 | 39297 | 49.16 | ug/L | 97 |
| 50) tert amyl alcohol | 4.520 | 55 | 56823 | 212.06 | ug/L | 97 |
| 53) tert-amyl methyl ether | 4.635 | 73 | 370116 | 47.36 | ug/L | 99 |
| 54) 2,2,4-trimethylpentane | 4.635 | 57 | 405322 | 46.79 | ug/L | 99 |
| 55) n-butyl alcohol | 4.905 | 56 | 369580 | 2174.31 | ug/L | 99 |
| 56) benzene | 4.574 | 78 | 472190 | 46.03 | ug/L | 99 |
| 57) heptane | 4.744 | 57 | 98803 | 48.17 | ug/L | 96 |
| 58) 1,2-dichloroethane | 4.597 | 62 | 162802 | 48.35 | ug/L | 99 |
| 59) trichloroethene | 5.040 | 95 | 127228 | 48.17 | ug/L | 96 |
| 60) ethyl acrylate | 5.059 | 55 | 252265 | 50.61 | ug/L | 100 |
| 61) 2-nitropropane | 5.588 | 41 | 58341 | 47.34 | ug/L | 98 |
| 62) 2-chloroethyl vinyl ether | 5.624 | 63 | 378922 | 193.11 | ug/L | 97 |
| 63) methyl methacrylate | 5.239 | 100 | 47807 | 49.08 | ug/L | 98 |
| 64) 1,2-dichloropropane | 5.239 | 63 | 131303 | 47.38 | ug/L | 98 |
| 65) methylcyclohexane | 5.229 | 83 | 219044 | 46.33 | ug/L | 98 |
| 66) dibromomethane | 5.309 | 93 | 76438 | 47.59 | ug/L | 97 |
| 67) bromodichloromethane | 5.431 | 83 | 180469 | 48.64 | ug/L | 98 |
| 68) cis-1,3-dichloropropene | 5.768 | 75 | 219878 | 49.38 | ug/L | 97 |
| 69) epichlorohydrin | 5.675 | 57 | 123769 | 225.14 | ug/L | 96 |
| 70) 4-methyl-2-pentanone | 5.864 | 58 | 337165 | 188.55 | ug/L | 95 |
| 71) 3-methyl-1-butanol | 5.887 | 70 | 138035 | 857.02 | ug/L | 98 |
| 74) toluene | 6.050 | 92 | 323312 | 48.70 | ug/L | 99 |
| 75) trans-1,3-dichloropropene | 6.220 | 75 | 201637 | 48.16 | ug/L | 98 |
| 76) ethyl methacrylate | 6.240 | 69 | 216576 | 50.37 | ug/L | 98 |
| 77) 1,1,2-trichloroethane | 6.391 | 83 | 108953 | 48.88 | ug/L | 99 |
| 78) 2-hexanone | 6.551 | 58 | 349424 | 174.80 | ug/L | 96 |
| 79) tetrachloroethene | 6.487 | 166 | 132818 | 48.33 | ug/L | 92 |
| 80) 1,3-dichloropropane | 6.535 | 76 | 206159 | 46.71 | ug/L | 100 |
| 81) butyl acetate | 6.638 | 56 | 137603 | 50.15 | ug/L | 100 |
| 82) dibromochloromethane | 6.724 | 129 | 129658 | 47.52 | ug/L | 98 |
| 83) 1,2-dibromoethane | 6.840 | 107 | 135303 | 49.03 | ug/L | 97 |
| 84) n-butyl ether | 7.308 | 57 | 590374 | 50.87 | ug/L | 99 |
| 85) chlorobenzene | 7.267 | 112 | 324596 | 48.40 | ug/L | 96 |
| 86) 1,1,1,2-tetrachloroethane | 7.337 | 131 | 108829 | 47.92 | ug/L | 99 |
| 87) ethylbenzene | 7.340 | 91 | 561071 | 46.71 | ug/L | 98 |
| 88) m,p-xylene | 7.456 | 106 | 448690 | 95.90 | ug/L | 98 |
| 89) o-xylene | 7.809 | 106 | 231543 | 50.10 | ug/L | 94 |
| 90) butyl acrylate | 7.729 | 55 | 342359 | 51.96 | ug/L | 99 |
| 91) styrene | 7.828 | 104 | 357096 | 46.87 | ug/L | 99 |
| 92) bromoform | 8.005 | 173 | 92683 | 44.78 | ug/L | 94 |
| 93) isopropylbenzene | 8.146 | 105 | 574274 | 47.69 | ug/L | 99 |
| 94) cis-1,4-dichloro-2-butene | 8.197 | 88 | 43374 | 35.41 | ug/L | 92 |
| 97) bromobenzene | 8.460 | 156 | 130540 | 49.51 | ug/L | 98 |
| 98) 1,1,2,2-tetrachloroethane | 8.431 | 83 | 197356 | 48.62 | ug/L | 93 |
| 99) trans-1,4-dichloro-2-b... | 8.467 | 53 | 38226 | 37.30 | ug/L | 98 |
| 100) 1,2,3-trichloropropane | 8.492 | 110 | 53259 | 48.60 | ug/L | 95 |
| 101) n-propylbenzene | 8.537 | 91 | 615722 | 48.64 | ug/L | 99 |
| 102) 2-chlorotoluene | 8.634 | 126 | 122947 | 49.12 | ug/L | 98 |
| 103) 4-chlorotoluene | 8.749 | 126 | 119283 | 47.56 | ug/L | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348811.d
Acq On : 29 Oct 2022 3:29 pm
Operator : BridgetK
Sample : jd54108-4ms Inst : GCMSL
Misc : MS63384,VL10552,5,,,,50
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 23:04:32 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

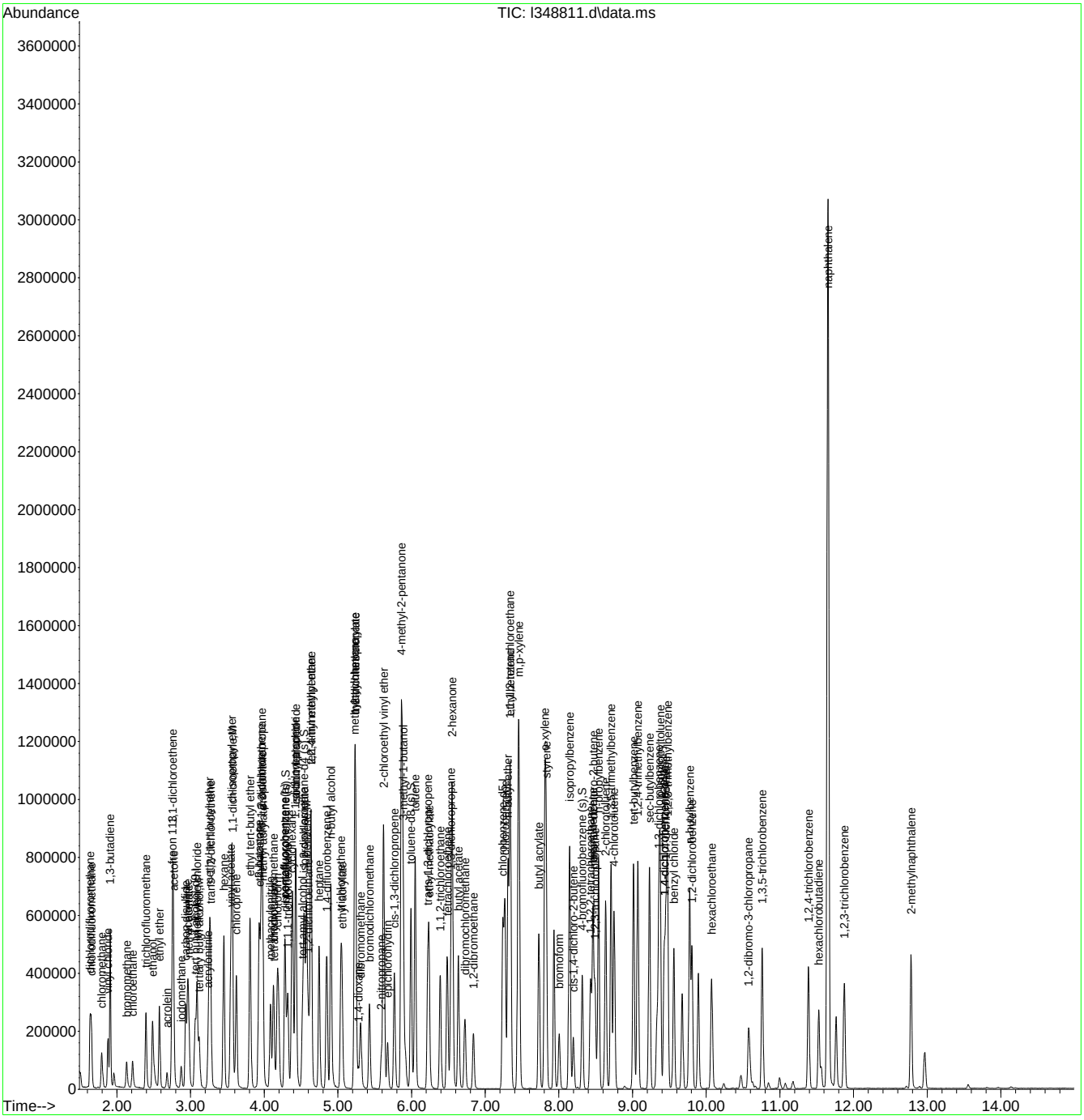
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) 1,3,5-trimethylbenzene | 8.707 | 105 | 438959 | 47.86 | ug/L | 99 |
| 105) tert-butylbenzene | 9.015 | 119 | 379688 | 48.64 | ug/L | 98 |
| 106) 1,2,4-trimethylbenzene | 9.070 | 105 | 454989 | 50.72 | ug/L | 99 |
| 107) sec-butylbenzene | 9.230 | 105 | 555959 | 48.73 | ug/L | 100 |
| 108) 1,3-dichlorobenzene | 9.356 | 146 | 223086 | 48.59 | ug/L | 99 |
| 109) p-isopropyltoluene | 9.375 | 119 | 427163 | 48.29 | ug/L | 100 |
| 110) 1,4-dichlorobenzene | 9.452 | 146 | 213950 | 47.60 | ug/L | 97 |
| 111) 1,2,3-trimethylbenzene | 9.474 | 105 | 419649 | 48.81 | ug/L | 98 |
| 112) 1,2-dichlorobenzene | 9.808 | 146 | 207644 | 47.86 | ug/L | 98 |
| 113) n-butylbenzene | 9.776 | 92 | 224848 | 49.90 | ug/L | 97 |
| 114) 1,2-dibromo-3-chloropr... | 10.572 | 157 | 49224 | 47.10 | ug/L | 94 |
| 115) 1,3,5-trichlorobenzene | 10.761 | 180 | 160090 | 52.30 | ug/L | 98 |
| 116) 1,2,4-trichlorobenzene | 11.390 | 180 | 140026 | 54.83 | ug/L | 94 |
| 117) hexachlorobutadiene | 11.528 | 225 | 56942 | 50.13 | ug/L | 92 |
| 118) naphthalene | 11.653 | 128 | 2471108 | 282.99 | ug/L | 89 |
| 119) 1,2,3-trichlorobenzene | 11.875 | 180 | 121845 | 49.93 | ug/L | 95 |
| 120) hexachloroethane | 10.074 | 119 | 89679 | 53.77 | ug/L | 97 |
| 121) benzyl chloride | 9.561 | 91 | 358542 | 51.83 | ug/L | 98 |
| 122) 2-methylnaphthalene | 12.783 | 142 | 238592 | 54.85 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348811.d
Acq On : 29 Oct 2022 3:29 pm
Operator : BridgetK
Sample : jd54108-4ms Inst : GCMSL
Misc : MS63384,VL10552,5,,,,50
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 23:04:32 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348812.d
Acq On : 29 Oct 2022 3:52 pm
Operator : BridgetK
Sample : jd54108-4msd Inst : GCMSL
Misc : MS63384,VL10552,5,,,,50
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 23:15:28 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.066 | 65 | 240780 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.282 | 168 | 221872 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.853 | 114 | 316921 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.241 | 117 | 303090 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.429 | 152 | 119648 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.282 | 168 | 221872 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.429 | 152 | 119684 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.295 | 113 | 91822 | 49.72 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.44% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.545 | 65 | 108649 | 50.07 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.14% | | | | |
| 73) toluene-d8 (s) | 5.996 | 98 | 386034 | 48.10 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.20% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.319 | 95 | 143599 | 52.18 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.36% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.287 | 88 | 48363 | 1014.19 | ug/L | | 97 |
| 3) ethanol | 2.489 | 45 | 281213 | 4319.23 | ug/L | | 99 |
| 4) tertiary butyl alcohol | 3.121 | 59 | 170256 | 236.10 | ug/L | | 99 |
| 6) chlorodifluoromethane | 1.654 | 51 | 165709 | 38.39 | ug/L | # | 99 |
| 7) dichlorodifluoromethane | 1.638 | 85 | 161053 | 31.92 | ug/L | | 98 |
| 8) chloromethane | 1.795 | 50 | 109113 | 28.15 | ug/L | | 97 |
| 9) vinyl chloride | 1.882 | 62 | 122165 | 30.45 | ug/L | | 98 |
| 10) 1,3-butadiene | 1.911 | 54 | 154319 | 53.17 | ug/L | | 98 |
| 11) bromomethane | 2.132 | 96 | 46692 | 45.19 | ug/L | | 92 |
| 12) chloroethane | 2.213 | 64 | 67315 | 32.34 | ug/L | | 93 |
| 13) trichlorofluoromethane | 2.399 | 101 | 166596 | 38.57 | ug/L | | 96 |
| 14) ethyl ether | 2.582 | 74 | 84587 | 46.86 | ug/L | | 96 |
| 15) acrolein | 2.681 | 56 | 37508 | 42.00 | ug/L | | 95 |
| 16) freon 113 | 2.758 | 151 | 88504 | 43.11 | ug/L | | 97 |
| 17) 1,1-dichloroethene | 2.761 | 96 | 101360 | 42.00 | ug/L | | 98 |
| 18) acetone | 2.774 | 58 | 85369 | 143.34 | ug/L | | 97 |
| 19) acetonitrile | 2.967 | 40 | 153776 | 475.85 | ug/L | | 91 |
| 20) iodomethane | 2.877 | 142 | 88264 | 52.40 | ug/L | | 97 |
| 21) iso-butyl alcohol | 4.433 | 43 | 121133 | 438.80 | ug/L | | 95 |
| 22) carbon disulfide | 2.938 | 76 | 320043 | 39.01 | ug/L | | 98 |
| 23) methylene chloride | 3.095 | 84 | 124322 | 45.75 | ug/L | | 97 |
| 24) methyl acetate | 2.979 | 74 | 37356 | 48.09 | ug/L | | 88 |
| 25) methyl tert butyl ether | 3.259 | 73 | 392617 | 48.07 | ug/L | | 98 |
| 26) trans-1,2-dichloroethene | 3.278 | 96 | 109246 | 42.92 | ug/L | | 97 |
| 27) hexane | 3.458 | 57 | 204599 | 43.42 | ug/L | | 99 |
| 28) di-isopropyl ether | 3.567 | 45 | 429648 | 46.75 | ug/L | | 98 |
| 29) ethyl tert-butyl ether | 3.811 | 59 | 446134 | 47.43 | ug/L | | 99 |
| 30) 2-butanone | 3.933 | 72 | 115451 | 181.79 | ug/L | | 94 |
| 31) 1,1-dichloroethane | 3.573 | 63 | 220966 | 45.40 | ug/L | | 98 |
| 32) chloroprene | 3.624 | 53 | 193138 | 43.97 | ug/L | | 97 |
| 33) acrylonitrile | 3.239 | 53 | 66306 | 36.35 | ug/L | | 98 |
| 34) vinyl acetate | 3.547 | 86 | 35929 | 51.71 | ug/L | # | 88 |
| 35) ethyl acetate | 3.945 | 45 | 38947 | 50.03 | ug/L | | 92 |
| 36) 2,2-dichloropropane | 3.971 | 77 | 174372 | 44.81 | ug/L | | 97 |
| 37) cis-1,2-dichloroethene | 3.961 | 96 | 123412 | 44.94 | ug/L | | 98 |
| 38) propionitrile | 3.981 | 54 | 316224 | 468.07 | ug/L | | 95 |
| 39) methyl acrylate | 3.990 | 85 | 31007 | 47.61 | ug/L | # | 73 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348812.d
Acq On : 29 Oct 2022 3:52 pm
Operator : BridgetK
Sample : jd54108-4msd Inst : GCMSL
Misc : MS63384,VL10552,5,,,,50
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 23:15:28 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 40) bromochloromethane | 4.128 | 128 | 58553 | 48.33 | ug/L | | 89 |
| 41) tetrahydrofuran | 4.138 | 72 | 31887 | 45.04 | ug/L | # | 76 |
| 42) chloroform | 4.183 | 83 | 214214 | 45.11 | ug/L | | 99 |
| 44) methacrylonitrile | 4.090 | 67 | 87153 | 47.00 | ug/L | | 97 |
| 45) 1,1,1-trichloroethane | 4.321 | 97 | 177030 | 44.75 | ug/L | | 97 |
| 46) cyclohexane | 4.379 | 84 | 122617 | 29.70 | ug/L | | 88 |
| 47) 1,1-dichloropropene | 4.430 | 75 | 158557 | 44.28 | ug/L | | 98 |
| 48) carbon tetrachloride | 4.436 | 117 | 139069 | 44.16 | ug/L | | 98 |
| 49) isopropyl acetate | 4.549 | 87 | 40688 | 50.30 | ug/L | # | 92 |
| 50) tert amyl alcohol | 4.523 | 55 | 58377 | 215.27 | ug/L | | 96 |
| 53) tert-amyl methyl ether | 4.635 | 73 | 378190 | 47.66 | ug/L | | 99 |
| 54) 2,2,4-trimethylpentane | 4.638 | 57 | 396269 | 45.05 | ug/L | | 98 |
| 55) n-butyl alcohol | 4.908 | 56 | 387259 | 2243.78 | ug/L | | 99 |
| 56) benzene | 4.574 | 78 | 470199 | 45.14 | ug/L | | 98 |
| 57) heptane | 4.748 | 57 | 94987 | 45.61 | ug/L | | 99 |
| 58) 1,2-dichloroethane | 4.600 | 62 | 164465 | 48.10 | ug/L | | 100 |
| 59) trichloroethene | 5.043 | 95 | 123583 | 46.08 | ug/L | | 90 |
| 60) ethyl acrylate | 5.062 | 55 | 257125 | 50.81 | ug/L | | 99 |
| 61) 2-nitropropane | 5.592 | 41 | 59390 | 47.46 | ug/L | | 93 |
| 62) 2-chloroethyl vinyl ether | 5.624 | 63 | 360272 | 180.82 | ug/L | | 98 |
| 63) methyl methacrylate | 5.245 | 100 | 48951 | 49.49 | ug/L | # | 88 |
| 64) 1,2-dichloropropane | 5.242 | 63 | 132786 | 47.19 | ug/L | | 95 |
| 65) methylcyclohexane | 5.232 | 83 | 212452 | 44.26 | ug/L | | 98 |
| 66) dibromomethane | 5.312 | 93 | 78805 | 48.32 | ug/L | | 99 |
| 67) bromodichloromethane | 5.431 | 83 | 179302 | 47.59 | ug/L | | 99 |
| 68) cis-1,3-dichloropropene | 5.768 | 75 | 221524 | 48.99 | ug/L | | 97 |
| 69) epichlorohydrin | 5.678 | 57 | 132741 | 237.80 | ug/L | | 96 |
| 70) 4-methyl-2-pentanone | 5.867 | 58 | 349799 | 192.65 | ug/L | | 96 |
| 71) 3-methyl-1-butanol | 5.890 | 70 | 145925 | 892.27 | ug/L | | 96 |
| 74) toluene | 6.054 | 92 | 321698 | 47.76 | ug/L | | 98 |
| 75) trans-1,3-dichloropropene | 6.220 | 75 | 205902 | 48.48 | ug/L | | 99 |
| 76) ethyl methacrylate | 6.240 | 69 | 219785 | 50.39 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 6.391 | 83 | 109673 | 48.51 | ug/L | | 98 |
| 78) 2-hexanone | 6.554 | 58 | 364969 | 179.98 | ug/L | | 98 |
| 79) tetrachloroethene | 6.487 | 166 | 131048 | 47.00 | ug/L | | 93 |
| 80) 1,3-dichloropropane | 6.535 | 76 | 209142 | 46.71 | ug/L | | 100 |
| 81) butyl acetate | 6.641 | 56 | 139012 | 49.94 | ug/L | | 97 |
| 82) dibromochloromethane | 6.724 | 129 | 130284 | 47.07 | ug/L | | 95 |
| 83) 1,2-dibromoethane | 6.843 | 107 | 137260 | 49.03 | ug/L | | 96 |
| 84) n-butyl ether | 7.311 | 57 | 598633 | 50.84 | ug/L | | 99 |
| 85) chlorobenzene | 7.270 | 112 | 324940 | 47.76 | ug/L | | 97 |
| 86) 1,1,1,2-tetrachloroethane | 7.337 | 131 | 110134 | 47.81 | ug/L | | 96 |
| 87) ethylbenzene | 7.344 | 91 | 557022 | 45.72 | ug/L | | 99 |
| 88) m,p-xylene | 7.456 | 106 | 445016 | 93.76 | ug/L | | 97 |
| 89) o-xylene | 7.812 | 106 | 231994 | 49.48 | ug/L | | 98 |
| 90) butyl acrylate | 7.732 | 55 | 346224 | 51.80 | ug/L | | 98 |
| 91) styrene | 7.828 | 104 | 357339 | 46.24 | ug/L | | 98 |
| 92) bromoform | 8.005 | 173 | 94826 | 45.17 | ug/L | | 95 |
| 93) isopropylbenzene | 8.146 | 105 | 566436 | 46.37 | ug/L | | 98 |
| 94) cis-1,4-dichloro-2-butene | 8.197 | 88 | 45553 | 36.66 | ug/L | | 92 |
| 97) bromobenzene | 8.463 | 156 | 130418 | 50.30 | ug/L | | 95 |
| 98) 1,1,2,2-tetrachloroethane | 8.428 | 83 | 200791 | 50.30 | ug/L | | 96 |
| 99) trans-1,4-dichloro-2-b... | 8.467 | 53 | 38892 | 38.59 | ug/L | | 94 |
| 100) 1,2,3-trichloropropane | 8.496 | 110 | 56017 | 51.99 | ug/L | | 99 |
| 101) n-propylbenzene | 8.540 | 91 | 613442 | 49.29 | ug/L | | 97 |
| 102) 2-chlorotoluene | 8.637 | 126 | 122206 | 49.65 | ug/L | | 98 |
| 103) 4-chlorotoluene | 8.752 | 126 | 119500 | 48.45 | ug/L | | 88 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348812.d
Acq On : 29 Oct 2022 3:52 pm
Operator : BridgetK
Sample : jd54108-4msd Inst : GCMSL
Misc : MS63384,VL10552,5,,,,50
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 23:15:28 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

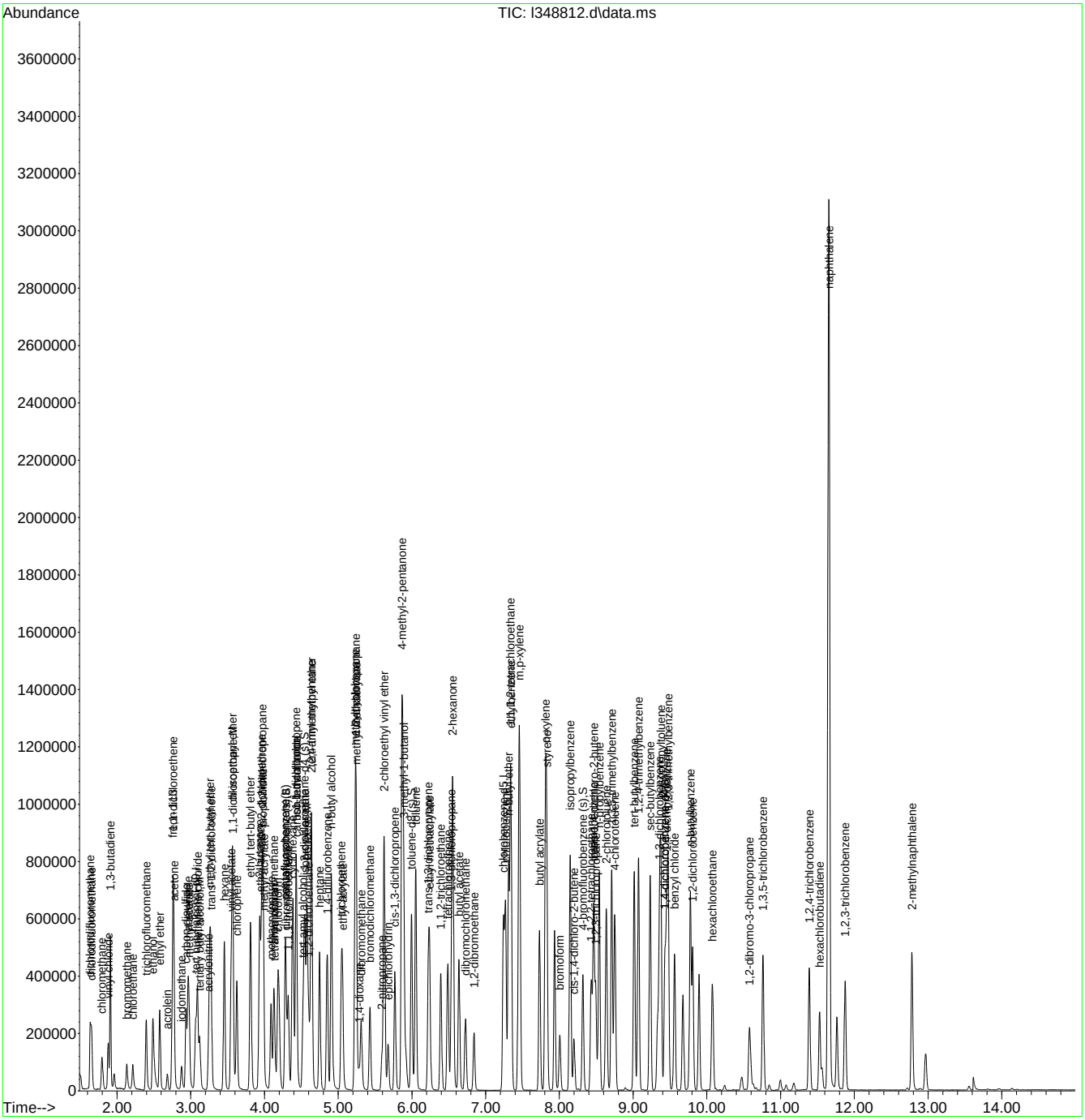
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) 1,3,5-trimethylbenzene | 8.711 | 105 | 439038 | 48.68 | ug/L | 99 |
| 105) tert-butylbenzene | 9.015 | 119 | 377588 | 49.19 | ug/L | 99 |
| 106) 1,2,4-trimethylbenzene | 9.073 | 105 | 456242 | 51.72 | ug/L | 99 |
| 107) sec-butylbenzene | 9.230 | 105 | 549675 | 49.00 | ug/L | 99 |
| 108) 1,3-dichlorobenzene | 9.356 | 146 | 223879 | 49.59 | ug/L | 99 |
| 109) p-isopropyltoluene | 9.375 | 119 | 415845 | 47.81 | ug/L | 98 |
| 110) 1,4-dichlorobenzene | 9.455 | 146 | 212450 | 48.07 | ug/L | 96 |
| 111) 1,2,3-trimethylbenzene | 9.474 | 105 | 416726 | 49.30 | ug/L | 100 |
| 112) 1,2-dichlorobenzene | 9.808 | 146 | 208754 | 48.93 | ug/L | 97 |
| 113) n-butylbenzene | 9.776 | 92 | 224244 | 50.61 | ug/L | 98 |
| 114) 1,2-dibromo-3-chloropr... | 10.575 | 157 | 51184 | 49.81 | ug/L | 96 |
| 115) 1,3,5-trichlorobenzene | 10.761 | 180 | 158098 | 52.52 | ug/L | 98 |
| 116) 1,2,4-trichlorobenzene | 11.390 | 180 | 139046 | 55.37 | ug/L | 98 |
| 117) hexachlorobutadiene | 11.531 | 225 | 57107 | 51.13 | ug/L | 94 |
| 118) naphthalene | 11.656 | 128 | 2506744 | 291.94 | ug/L | 90 |
| 119) 1,2,3-trichlorobenzene | 11.875 | 180 | 124578 | 51.92 | ug/L | 95 |
| 120) hexachloroethane | 10.078 | 119 | 83789 | 51.09 | ug/L | 96 |
| 121) benzyl chloride | 9.561 | 91 | 365311 | 53.71 | ug/L | 98 |
| 122) 2-methylnaphthalene | 12.783 | 142 | 255520 | 59.74 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348812.d
Acq On : 29 Oct 2022 3:52 pm
Operator : BridgetK
Sample : jd54108-4msd Inst : GCMSL
Misc : MS63384,VL10552,5,,,,50
ALS Vial : 15 Sample Multiplier: 1

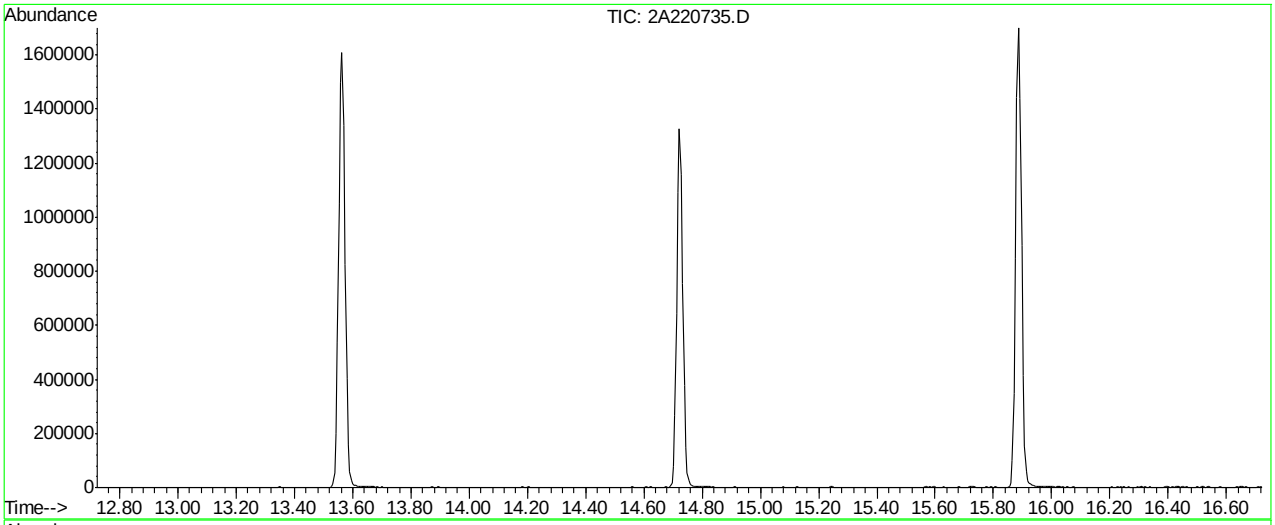
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 23:15:28 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

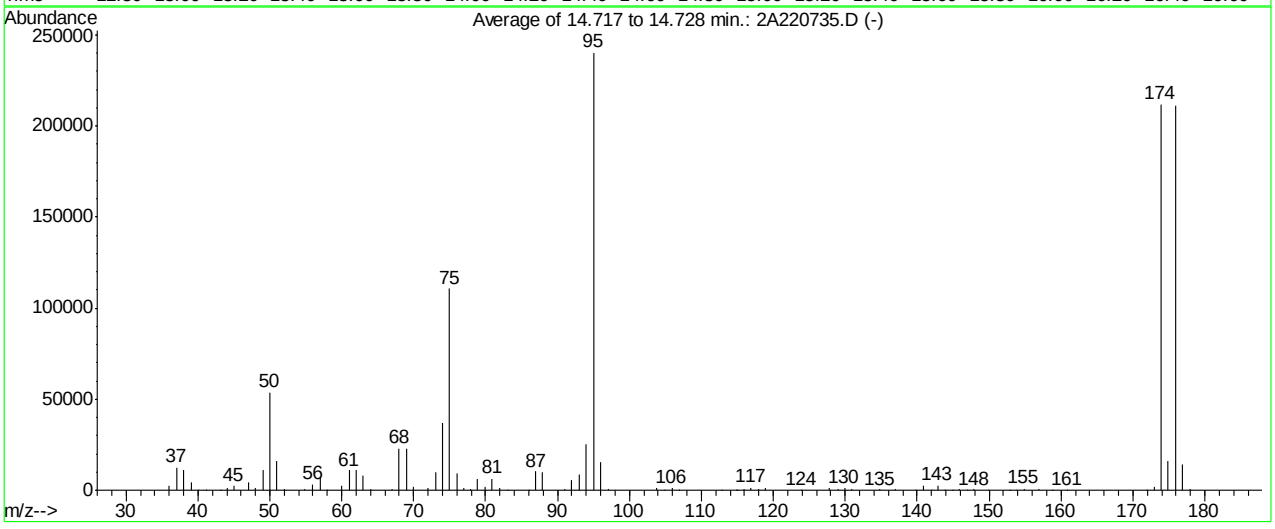


SW-846 Method 8260

Data File : C:\MSDChem\1\DATA\V2A9596\2A220735.D  Vial: 1
Acq On : 13 Oct 2022 5:42 pm  Operator: PrashanS
Sample : BFB  Inst : GCMS2A
Misc : MS62754,V2A9596,5,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9596.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022




AutoFind: Scans 2161, 2162, 2163; Background Corrected with Scan 2153

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 22.3 | 53573 | PASS |
| 75 | 95 | 30 | 60 | 46.0 | 110642 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 240298 | PASS |
| 96 | 95 | 5 | 9 | 6.5 | 15575 | PASS |
| 173 | 174 | 0.00 | 2 | 0.9 | 1954 | PASS |
| 174 | 95 | 50 | 120 | 88.1 | 211797 | PASS |
| 175 | 174 | 5 | 9 | 7.5 | 15782 | PASS |
| 176 | 174 | 95 | 101 | 99.5 | 210837 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 14168 | PASS |

2A220735.D M2A9596.M Fri Oct 14 18:42:38 2022 MS2A

Average of 14.717 to 14.728 min.: 2A220735.D
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.00 | 2671 | 49.00 | 11236 | 63.00 | 7819 | 76.95 | 1274 |
| 37.05 | 12574 | 50.00 | 53573 | 64.05 | 674 | 77.95 | 892 |
| 38.00 | 11150 | 51.00 | 16030 | 66.95 | 548 | 78.90 | 5935 |
| 39.05 | 4455 | 52.00 | 739 | 68.00 | 23077 | 79.90 | 1660 |
| 40.00 | 183 | 54.90 | 519 | 69.00 | 22570 | 80.90 | 6261 |
| 41.10 | 68 | 56.00 | 3351 | 70.00 | 1721 | 81.95 | 1383 |
| 43.10 | 71 | 57.00 | 6893 | 71.95 | 1039 | 83.00 | 90 |
| 44.00 | 956 | 57.95 | 291 | 73.00 | 9680 | 85.95 | 239 |
| 45.00 | 2343 | 60.00 | 2218 | 74.00 | 36728 | 86.95 | 10342 |
| 47.00 | 4205 | 61.00 | 10952 | 75.00 | 110642 | 87.95 | 9967 |
| 48.00 | 1464 | 62.00 | 10823 | 76.00 | 9032 | 90.95 | 859 |

Average of 14.717 to 14.728 min.: 2A220735.D
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 91.95 | 5615 | 114.80 | 91 | 134.85 | 396 | 149.85 | 187 |
| 93.00 | 8797 | 115.00 | 98 | 136.95 | 361 | 152.90 | 75 |
| 94.00 | 25088 | 115.90 | 752 | 139.80 | 189 | 153.80 | 68 |
| 95.00 | 240298 | 116.90 | 1392 | 140.90 | 2189 | 154.90 | 676 |
| 96.00 | 15575 | 117.90 | 682 | 142.00 | 307 | 156.95 | 449 |
| 97.00 | 528 | 118.90 | 1262 | 142.85 | 2481 | 158.80 | 244 |
| 103.85 | 1028 | 123.90 | 85 | 143.90 | 68 | 160.90 | 206 |
| 104.80 | 320 | 127.85 | 946 | 144.85 | 135 | 171.90 | 79 |
| 105.95 | 1068 | 128.95 | 443 | 145.85 | 348 | 173.00 | 1954 |
| 106.95 | 245 | 129.90 | 990 | 146.90 | 185 | 173.90 | 211797 |
| 112.85 | 184 | 130.90 | 371 | 147.90 | 608 | 174.90 | 15782 |

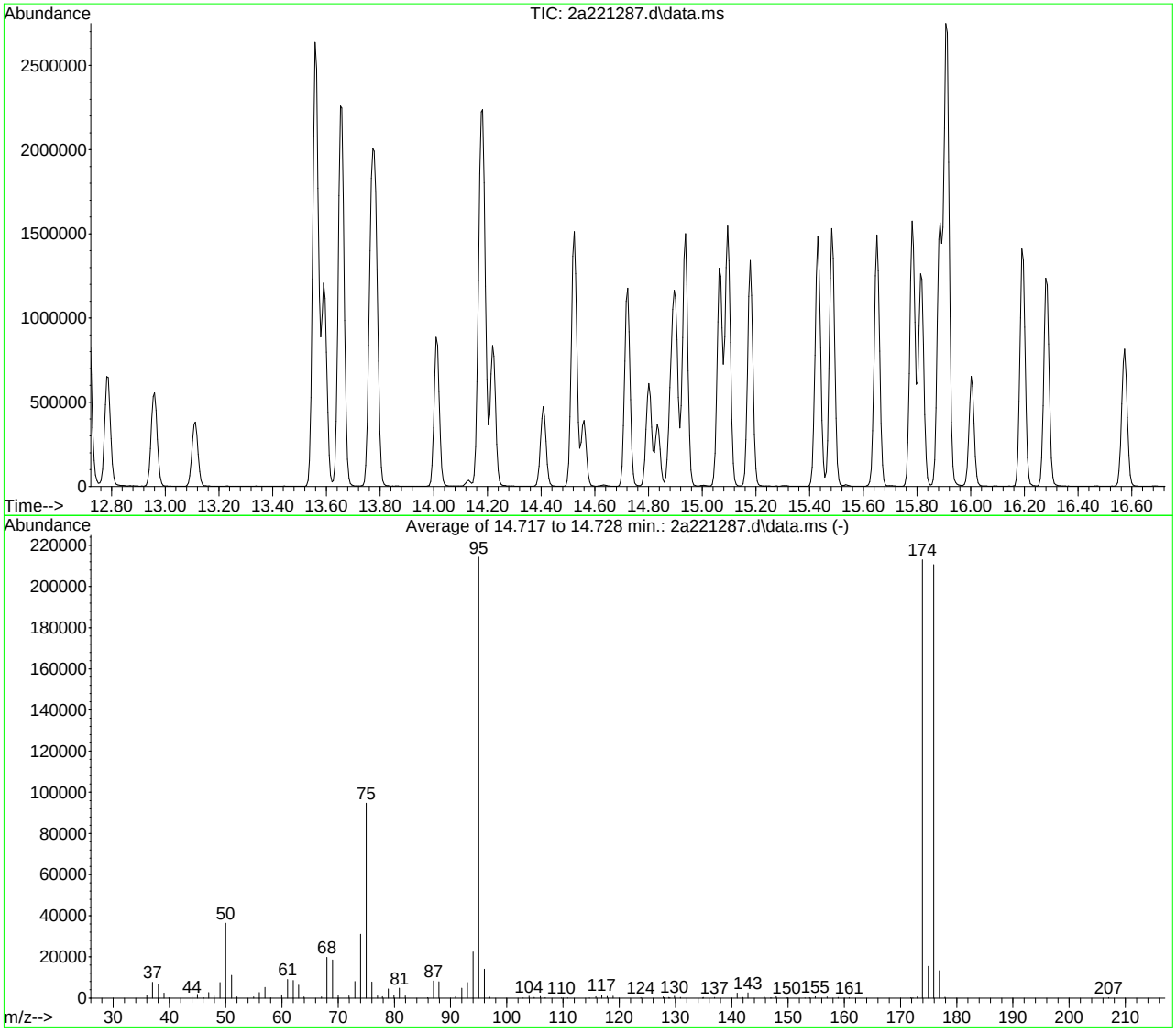
Average of 14.717 to 14.728 min.: 2A220735.D
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 175.90 | 210837 | | | | | | |
| 176.95 | 14168 | | | | | | |
| 177.95 | 440 | | | | | | |

SW-846 Method 8260

Data File : C:\msdchem\1\data\ne...22\v2a9619\2a221287.d Vial: 29
Acq On : 27 Oct 2022 10:49 pm Operator: nickw
Sample : bfb Inst : GCMS2A
Misc : MS63376,V2A9619,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9596.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022




AutoFind: Scans 2161, 2162, 2163; Background Corrected with Scan 2153

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 17.0 | 36341 | PASS |
| 75 | 95 | 30 | 60 | 44.2 | 94723 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 214251 | PASS |
| 96 | 95 | 5 | 9 | 6.5 | 14024 | PASS |
| 173 | 174 | 0.00 | 2 | 0.3 | 628 | PASS |
| 174 | 95 | 50 | 120 | 99.4 | 213035 | PASS |
| 175 | 174 | 5 | 9 | 7.3 | 15475 | PASS |
| 176 | 174 | 95 | 101 | 98.9 | 210667 | PASS |
| 177 | 176 | 5 | 9 | 6.3 | 13250 | PASS |

2a221287.d M2A9596.M Sat Oct 29 02:35:13 2022

Average of 14.717 to 14.728 min.: 2a221287.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.00 | 1445 | 50.00 | 36341 | 63.95 | 589 | 77.85 | 681 |
| 37.00 | 7677 | 51.05 | 10994 | 67.05 | 527 | 78.90 | 4477 |
| 38.05 | 6807 | 52.00 | 552 | 68.00 | 19774 | 79.95 | 1362 |
| 39.05 | 2475 | 55.00 | 546 | 69.00 | 18499 | 80.90 | 4786 |
| 39.90 | 97 | 56.00 | 2660 | 70.00 | 1425 | 81.95 | 1115 |
| 44.00 | 795 | 57.00 | 5160 | 71.95 | 1010 | 85.90 | 244 |
| 45.00 | 1842 | 58.00 | 69 | 73.00 | 8078 | 86.95 | 8282 |
| 46.10 | 82 | 59.95 | 1539 | 74.00 | 31045 | 87.90 | 7962 |
| 47.00 | 2633 | 61.00 | 9016 | 75.00 | 94723 | 90.90 | 642 |
| 47.95 | 1027 | 62.00 | 8518 | 76.00 | 7855 | 92.00 | 4875 |
| 49.00 | 7515 | 63.00 | 6313 | 77.00 | 1089 | 93.00 | 7575 |

Average of 14.717 to 14.728 min.: 2a221287.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 94.00 | 22389 | 114.70 | 76 | 130.85 | 335 | 147.90 | 637 |
| 95.00 | 214251 | 115.85 | 651 | 134.80 | 87 | 149.80 | 85 |
| 96.00 | 14024 | 116.90 | 1450 | 134.95 | 257 | 150.00 | 83 |
| 96.95 | 430 | 117.85 | 821 | 136.95 | 352 | 153.00 | 85 |
| 102.90 | 71 | 118.90 | 988 | 139.90 | 83 | 153.85 | 170 |
| 103.95 | 997 | 123.85 | 158 | 140.95 | 2382 | 154.85 | 664 |
| 104.85 | 346 | 127.80 | 613 | 141.95 | 282 | 156.95 | 525 |
| 105.95 | 853 | 128.00 | 255 | 142.90 | 2537 | 158.90 | 367 |
| 106.85 | 175 | 128.80 | 285 | 145.80 | 397 | 160.90 | 183 |
| 109.70 | 75 | 129.00 | 144 | 146.90 | 72 | 171.85 | 191 |
| 110.80 | 69 | 129.80 | 992 | 147.10 | 113 | 172.20 | 132 |

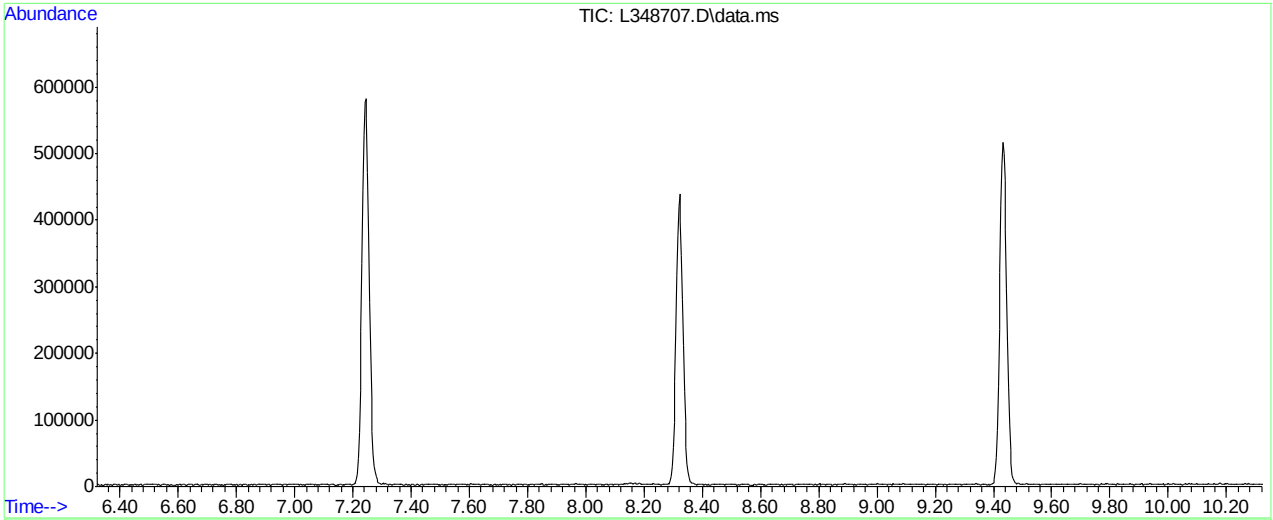
Average of 14.717 to 14.728 min.: 2a221287.d\data.ms
bfb
Modified:subtracted

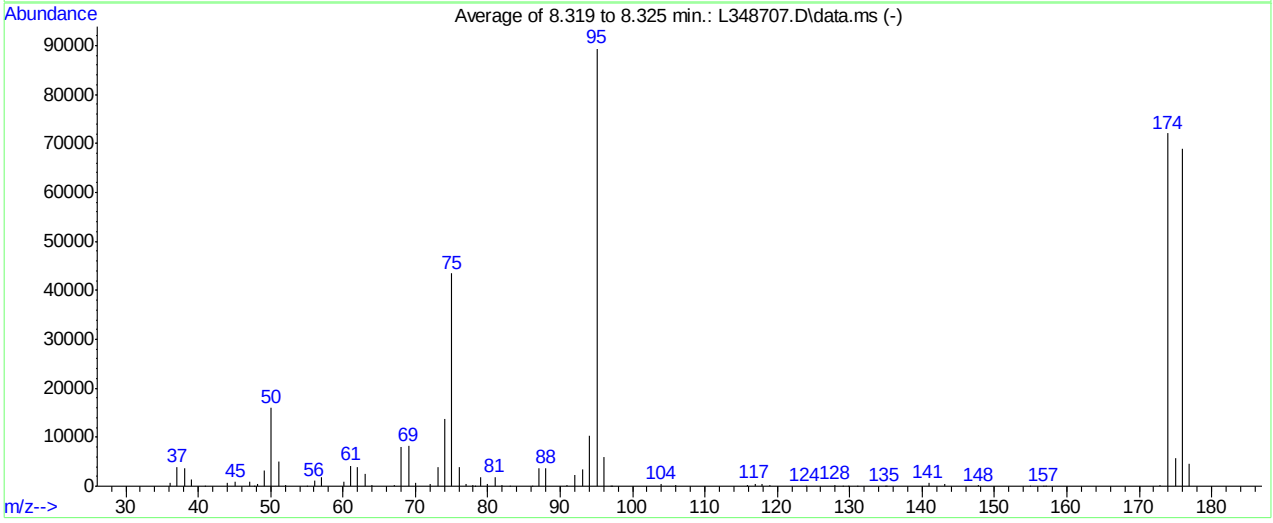
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 173.00 | 628 | | | | | | |
| 173.90 | 213035 | | | | | | |
| 174.95 | 15475 | | | | | | |
| 175.90 | 210667 | | | | | | |
| 176.90 | 13250 | | | | | | |
| 177.90 | 417 | | | | | | |
| 207.00 | 182 | | | | | | |

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\VL10548\L348707.D  Vial: 1
Acq On : 27 Oct 2022 1:23 am  Operator: PrashanS
Sample : BFB  Inst : GCMSL
Misc : MS63290,VL10548,5,,,,1  Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10548.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um




AutoFind: Scans 2129, 2130, 2131; Background Corrected with Scan 2114

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 17.9 | 15976 | PASS |
| 75 | 95 | 30 | 60 | 48.6 | 43467 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 89389 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 6041 | PASS |
| 173 | 174 | 0.00 | 2 | 0.4 | 262 | PASS |
| 174 | 95 | 50 | 120 | 80.7 | 72101 | PASS |
| 175 | 174 | 5 | 9 | 8.0 | 5774 | PASS |
| 176 | 174 | 95 | 101 | 95.7 | 69016 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 4622 | PASS |

L348707.D ML10548.M Thu Oct 27 18:58:44 2022 1

Average of 8.319 to 8.325 min.: L348707.D\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.05 | 761 | 50.10 | 15976 | 67.05 | 247 | 78.30 | 108 |
| 37.10 | 3986 | 51.10 | 4994 | 68.05 | 8069 | 79.00 | 1840 |
| 38.05 | 3636 | 52.10 | 205 | 69.05 | 8192 | 79.95 | 461 |
| 39.05 | 1440 | 55.00 | 65 | 70.05 | 722 | 80.95 | 1949 |
| 40.90 | 87 | 56.05 | 1092 | 72.05 | 424 | 82.00 | 301 |
| 44.00 | 587 | 57.05 | 1933 | 73.05 | 3863 | 83.00 | 67 |
| 45.10 | 830 | 60.05 | 947 | 74.05 | 13782 | 86.20 | 73 |
| 47.05 | 940 | 61.05 | 4226 | 75.05 | 43467 | 87.00 | 3702 |
| 47.80 | 106 | 62.05 | 3985 | 76.05 | 3929 | 88.00 | 3730 |
| 48.15 | 509 | 63.10 | 2550 | 77.00 | 512 | 91.00 | 322 |
| 49.05 | 3268 | 64.00 | 280 | 77.90 | 253 | 92.05 | 2223 |

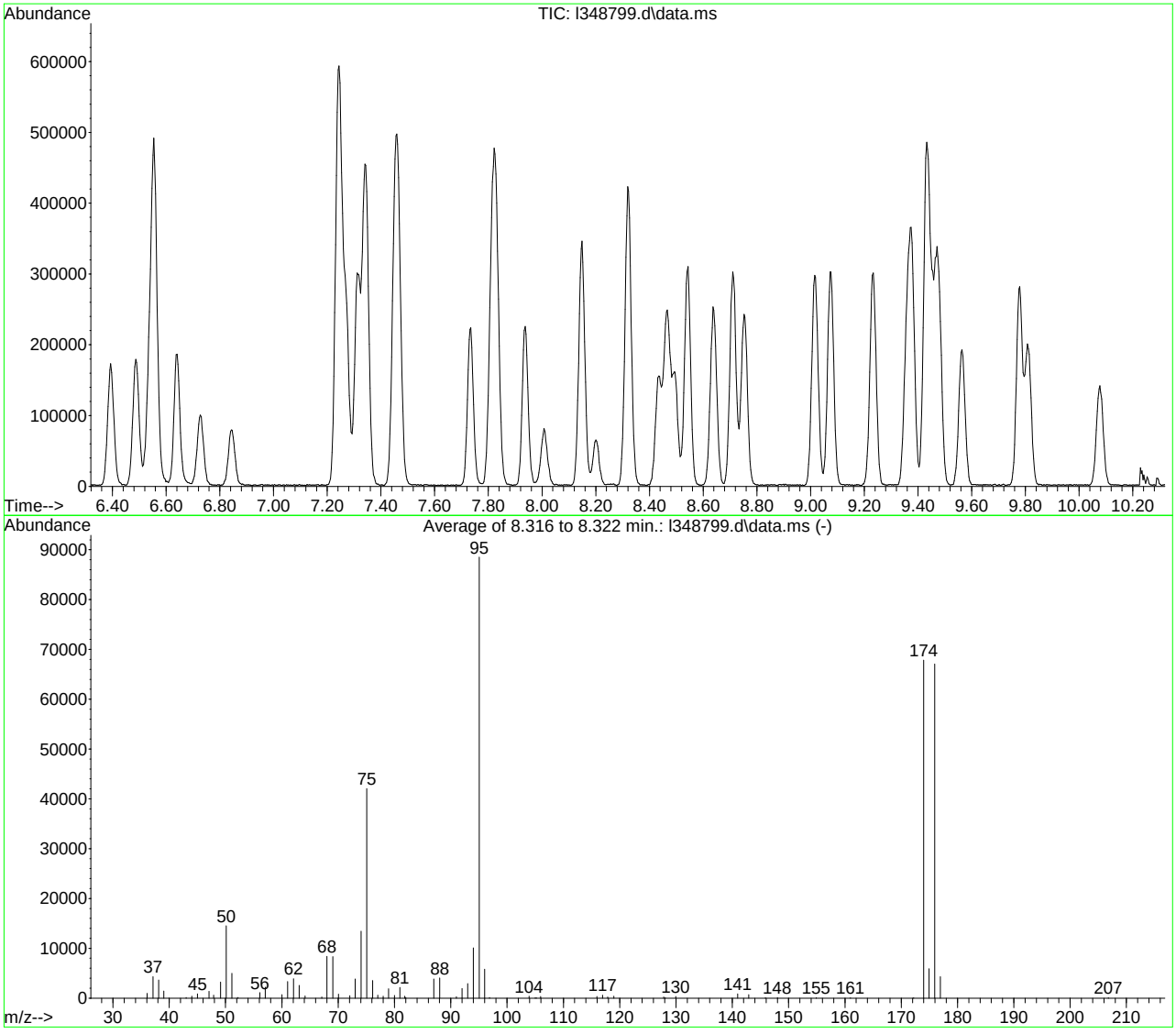
Average of 8.319 to 8.325 min.: L348707.D\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 93.05 | 3490 | 118.90 | 346 | 154.90 | 77 | | |
| 94.05 | 10243 | 123.90 | 109 | 156.80 | 100 | | |
| 95.05 | 89389 | 127.95 | 240 | 157.00 | 87 | | |
| 96.05 | 6041 | 129.00 | 94 | 172.90 | 262 | | |
| 97.00 | 88 | 129.80 | 70 | 173.95 | 72101 | | |
| 97.20 | 84 | 131.00 | 75 | 175.00 | 5774 | | |
| 103.95 | 436 | 134.90 | 117 | 176.00 | 69016 | | |
| 106.00 | 310 | 135.10 | 83 | 176.95 | 4622 | | |
| 115.90 | 183 | 140.95 | 649 | | | | |
| 116.90 | 555 | 143.05 | 526 | | | | |
| 117.80 | 417 | 147.80 | 226 | | | | |

SW-846 Method 8260

Data File : C:\msdchem\1\data\An...022\vl10552\l348799.d Vial: 2
Acq On : 29 Oct 2022 10:33 am Operator: BridgetK
Sample : bfb Inst : GCMSL
Misc : MS63359,VL10552,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10548.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um




AutoFind: Scans 2128, 2129, 2130; Background Corrected with Scan 2114

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 16.4 | 14503 | PASS |
| 75 | 95 | 30 | 60 | 47.5 | 42040 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 88509 | PASS |
| 96 | 95 | 5 | 9 | 6.6 | 5804 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 76.6 | 67835 | PASS |
| 175 | 174 | 5 | 9 | 8.7 | 5932 | PASS |
| 176 | 174 | 95 | 101 | 98.9 | 67064 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 4290 | PASS |

l348799.d ML10548.M Mon Oct 31 22:18:00 2022

Average of 8.316 to 8.322 min.: l348799.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.05 | 968 | 51.10 | 5002 | 69.05 | 8309 | 80.95 | 2166 |
| 37.10 | 4329 | 52.20 | 145 | 70.05 | 782 | 81.80 | 364 |
| 38.10 | 3646 | 56.10 | 1125 | 72.05 | 491 | 82.00 | 153 |
| 39.05 | 1431 | 57.05 | 2218 | 73.00 | 3833 | 87.00 | 3828 |
| 43.00 | 139 | 60.00 | 680 | 74.05 | 13416 | 88.05 | 4053 |
| 44.00 | 405 | 61.00 | 3325 | 75.05 | 42040 | 91.00 | 310 |
| 45.00 | 837 | 62.05 | 3912 | 76.10 | 3539 | 92.00 | 1934 |
| 47.05 | 1347 | 63.05 | 2539 | 77.05 | 590 | 93.00 | 2907 |
| 47.90 | 588 | 64.10 | 460 | 78.00 | 399 | 94.00 | 10064 |
| 49.10 | 3224 | 67.10 | 228 | 78.95 | 1882 | 95.05 | 88509 |
| 50.10 | 14503 | 68.00 | 8374 | 80.00 | 544 | 96.00 | 5804 |

Average of 8.316 to 8.322 min.: l348799.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 96.90 | 127 | 129.95 | 312 | 176.95 | 4290 | | |
| 103.90 | 396 | 140.95 | 840 | 206.80 | 75 | | |
| 105.00 | 79 | 142.90 | 701 | | | | |
| 105.20 | 77 | 145.90 | 81 | | | | |
| 105.95 | 357 | 148.00 | 87 | | | | |
| 115.95 | 340 | 154.90 | 82 | | | | |
| 116.95 | 586 | 161.00 | 78 | | | | |
| 117.85 | 210 | 172.20 | 73 | | | | |
| 118.95 | 381 | 174.00 | 67835 | | | | |
| 127.80 | 236 | 174.95 | 5932 | | | | |
| 128.10 | 75 | 175.95 | 67064 | | | | |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220736.D
Acq On : 13 Oct 2022 6:18 pm
Operator : PrashanS
Sample : IC9596-0.2
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 14 18:43:52 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 346171 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 9.52 | 168 | 640998 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 876432 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 772505 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 390174 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 280281 | 49.61 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.22% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.96 | 65 | 347801 | 51.38 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 102.76% | | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 973540 | 49.46 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.92% | | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 374154 | 51.04 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.08% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 6) chlorodifluoromethane | 3.99 | 51 | 1632 | 0.19 | ug/L | | 67 |
| 9) vinyl chloride | 4.57 | 62 | 1360 | 0.18 | ug/L | # | 51 |
| 12) chloroethane | 5.36 | 64 | 648 | 0.16 | ug/L | | 62 |
| 20) iodomethane | 6.85 | 142 | 1557 | 0.17 | ug/L | | 83 |
| 24) methyl tert butyl ether | 7.68 | 73 | 3412 | 0.24 | ug/L | | 96 |
| 25) trans-1,2-dichloroethene | 7.70 | 96 | 1123 | 0.23 | ug/L | # | 67 |
| 27) di-isopropyl ether | 8.26 | 45 | 5050 | 0.23 | ug/L | # | 65 |
| 28) ethyl tert-butyl ether | 8.72 | 59 | 4252 | 0.22 | ug/L | | 92 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 1875 | 0.19 | ug/L | | 85 |
| 31) chloroprene | 8.38 | 53 | 1950 | 0.20 | ug/L | # | 56 |
| 35) 2,2-dichloropropane | 9.01 | 77 | 1674 | 0.23 | ug/L | | 81 |
| 36) cis-1,2-dichloroethene | 8.98 | 96 | 1208 | 0.22 | ug/L | # | 49 |
| 38) bromochloromethane | 9.26 | 130 | 623 | 0.17 | ug/L | # | 54 |
| 45) 1,1,1-trichloroethane | 9.61 | 97 | 1589 | 0.19 | ug/L | # | 71 |
| 46) cyclohexane | 9.73 | 84 | 1656 | 0.21 | ug/L | # | 36 |
| 47) 1,1-dichloropropene | 9.78 | 75 | 1431 | 0.20 | ug/L | # | 80 |
| 48) tert-amyl alcohol | 9.92 | 73 | 407 | 1.18 | ug/L | # | 47 |
| 49) carbon tetrachloride | 9.80 | 117 | 1380 | 0.19 | ug/L | # | 61 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 5060 | 0.21 | ug/L | | 92 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 3702 | 0.24 | ug/L | | 90 |
| 55) benzene | 10.02 | 78 | 4102 | 0.21 | ug/L | | 93 |
| 56) heptane | 10.29 | 57 | 1097 | 0.24 | ug/L | | 81 |
| 59) trichloroethene | 10.75 | 95 | 1045 | 0.19 | ug/L | | 80 |
| 64) 1,2-dichloropropane | 11.04 | 63 | 1140 | 0.20 | ug/L | | 99 |
| 65) methylcyclohexane | 11.05 | 83 | 1950 | 0.22 | ug/L | | 87 |
| 66) dibromomethane | 11.15 | 93 | 483 | 0.15 | ug/L | | 72 |
| 67) bromodichloromethane | 11.30 | 83 | 1541 | 0.22 | ug/L | | 78 |
| 69) cis-1,3-dichloropropene | 11.76 | 75 | 1697 | 0.20 | ug/L | | 79 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 1730 | 0.68 | ug/L | # | 74 |
| 74) toluene | 12.14 | 92 | 2463 | 0.20 | ug/L | | 87 |
| 75) trans-1,3-dichloropropene | 12.33 | 75 | 1416 | 0.18 | ug/L | | 81 |
| 76) ethyl methacrylate | 12.34 | 69 | 1143 | 0.16 | ug/L | | 88 |
| 77) 1,1,2-trichloroethane | 12.55 | 83 | 645 | 0.16 | ug/L | | 87 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220736.D
Acq On : 13 Oct 2022 6:18 pm
Operator : PrashanS
Sample : IC9596-0.2
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 14 18:43:52 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

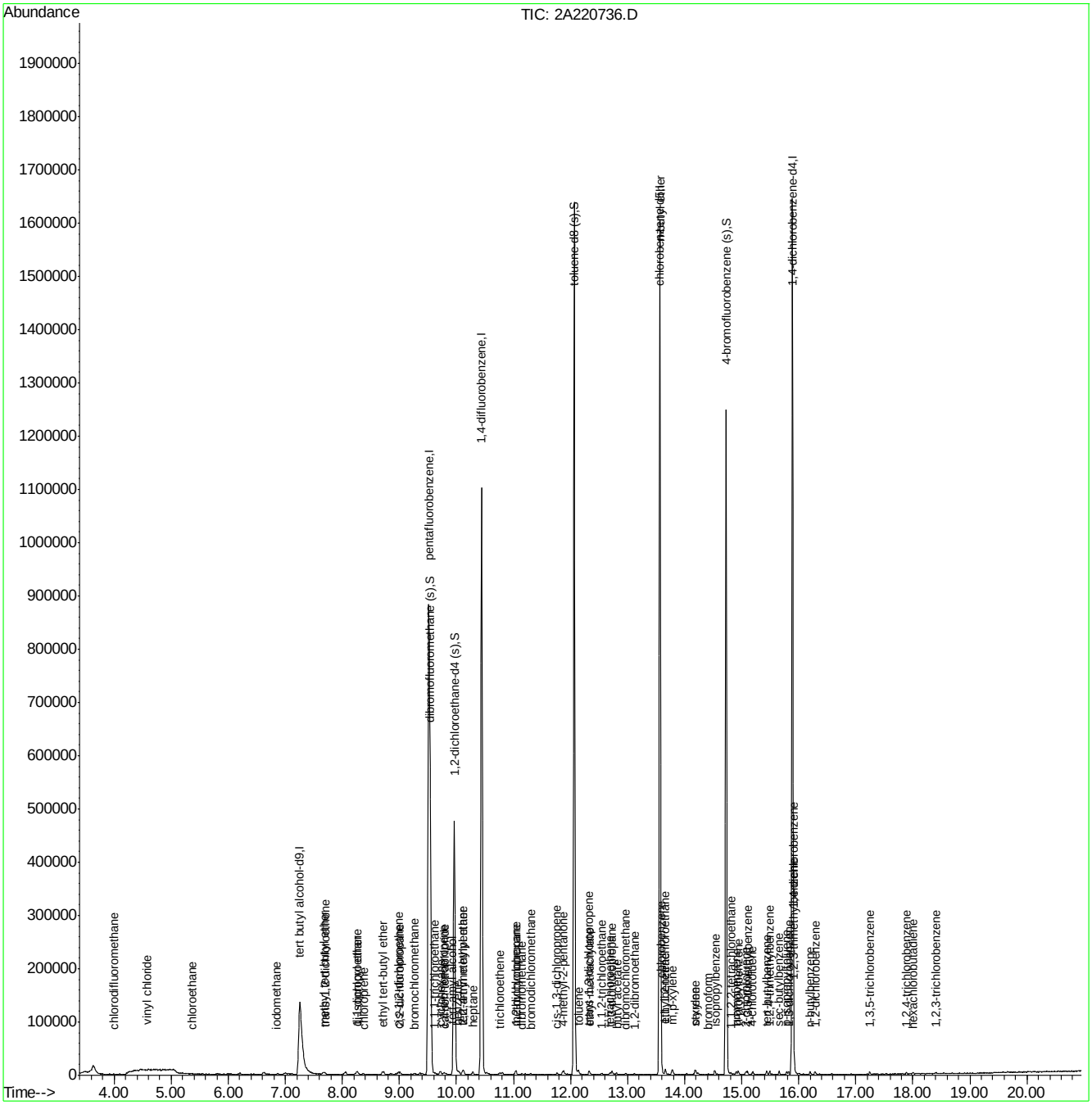
| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 79) tetrachloroethene | 12.69 | 166 | 1466 | 0.24 | ug/L | | 89 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 1466 | 0.20 | ug/L | | 77 |
| 81) butyl acetate | 12.81 | 56 | 762 | 0.17 | ug/L | # | 65 |
| 82) dibromochloromethane | 12.96 | 129 | 1290 | 0.22 | ug/L | | 71 |
| 83) 1,2-dibromoethane | 13.12 | 107 | 837 | 0.17 | ug/L | | 98 |
| 84) n-butyl ether | 13.57 | 57 | 5709 | 0.23 | ug/L | # | 1 |
| 85) chlorobenzene | 13.59 | 112 | 2749 | 0.20 | ug/L | | 78 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 970 | 0.18 | ug/L | | 86 |
| 87) ethylbenzene | 13.66 | 91 | 4933 | 0.23 | ug/L | | 88 |
| 88) m,p-xylene | 13.79 | 106 | 3576 | 0.41 | ug/L | | 97 |
| 89) o-xylene | 14.18 | 91 | 3613 | 0.21 | ug/L | | 84 |
| 90) styrene | 14.20 | 104 | 2417 | 0.17 | ug/L | | 92 |
| 92) bromoform | 14.42 | 173 | 755 | 0.18 | ug/L | | 92 |
| 94) isopropylbenzene | 14.53 | 105 | 4879 | 0.23 | ug/L | | 91 |
| 98) bromobenzene | 14.90 | 156 | 1411 | 0.23 | ug/L | # | 79 |
| 99) 1,1,2,2-tetrachloroethane | 14.81 | 83 | 1168 | 0.20 | ug/L | | 81 |
| 102) n-propylbenzene | 14.94 | 91 | 5445 | 0.22 | ug/L | | 96 |
| 103) 2-chlorotoluene | 15.08 | 126 | 1107 | 0.20 | ug/L | # | 77 |
| 104) 4-chlorotoluene | 15.19 | 91 | 3311 | 0.22 | ug/L | | 97 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 3668 | 0.22 | ug/L | | 92 |
| 106) tert-butylbenzene | 15.44 | 119 | 3085 | 0.20 | ug/L | | 91 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 3472 | 0.20 | ug/L | | 91 |
| 108) sec-butylbenzene | 15.66 | 105 | 4797 | 0.22 | ug/L | | 90 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 2477 | 0.23 | ug/L | | 91 |
| 110) p-isopropyltoluene | 15.79 | 119 | 3596 | 0.19 | ug/L | | 89 |
| 112) 1,2,3-trimethylbenzene | 15.92 | 105 | 3773 | 0.22 | ug/L | | 94 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 2564 | 0.23 | ug/L | | 86 |
| 114) 1,2-dichlorobenzene | 16.29 | 146 | 2305 | 0.22 | ug/L | | 74 |
| 115) n-butylbenzene | 16.20 | 92 | 1867 | 0.20 | ug/L | # | 66 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 1588 | 0.19 | ug/L | # | 73 |
| 118) 1,2,4-trichlorobenzene | 17.89 | 180 | 1168 | 0.16 | ug/L | | 89 |
| 119) hexachlorobutadiene | 18.00 | 225 | 812 | 0.23 | ug/L | # | 64 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 1048 | 0.18 | ug/L | | 78 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220736.D
Acq On : 13 Oct 2022 6:18 pm
Operator : PrashanS
Sample : IC9596-0.2
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 14 18:43:52 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220737.D
Acq On : 13 Oct 2022 6:37 pm
Operator : PrashanS
Sample : IC9596-0.5
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 14 18:44:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 352634 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 645584 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 10.43 | 114 | 878119 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 771580 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 393384 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 284762 | 50.04 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.08% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.96 | 65 | 349478 | 51.53 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 103.06% | | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 980120 | 49.85 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.70% | | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 374914 | 50.73 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.46% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 3073 | 44.44 | ug/L | # | 37 |
| 6) chlorodifluoromethane | 3.99 | 51 | 4445 | 0.51 | ug/L | | 67 |
| 7) dichlorodifluoromethane | 3.96 | 85 | 3058 | 0.45 | ug/L | | 83 |
| 8) chloromethane | 4.34 | 50 | 5903 | 0.61 | ug/L | | 83 |
| 9) vinyl chloride | 4.58 | 62 | 3776 | 0.49 | ug/L | | 89 |
| 11) bromomethane | 5.17 | 94 | 2589 | 0.57 | ug/L | | 72 |
| 12) chloroethane | 5.38 | 64 | 1909 | 0.46 | ug/L | | 68 |
| 13) trichlorofluoromethane | 5.79 | 101 | 3673 | 0.43 | ug/L | | 94 |
| 14) ethyl ether | 6.21 | 74 | 1379 | 0.48 | ug/L | # | 48 |
| 16) freon 113 | 6.62 | 151 | 2153 | 0.48 | ug/L | # | 89 |
| 17) 1,1-dichloroethene | 6.61 | 96 | 2420 | 0.54 | ug/L | # | 68 |
| 20) iodomethane | 6.85 | 142 | 4263 | 0.47 | ug/L | | 96 |
| 21) carbon disulfide | 6.99 | 76 | 8538 | 0.55 | ug/L | | 81 |
| 22) methylene chloride | 7.30 | 84 | 2692 | 0.53 | ug/L | | 98 |
| 24) methyl tert butyl ether | 7.66 | 73 | 6997 | 0.49 | ug/L | | 93 |
| 25) trans-1,2-dichloroethene | 7.70 | 96 | 2729 | 0.54 | ug/L | | 90 |
| 26) hexane | 8.04 | 57 | 5373 | 0.52 | ug/L | | 92 |
| 27) di-isopropyl ether | 8.25 | 45 | 11756 | 0.54 | ug/L | | 87 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 10100 | 0.52 | ug/L | | 90 |
| 30) 1,1-dichloroethane | 8.25 | 63 | 5091 | 0.50 | ug/L | | 91 |
| 31) chloroprene | 8.36 | 53 | 4936 | 0.51 | ug/L | | 95 |
| 35) 2,2-dichloropropane | 8.99 | 77 | 3892 | 0.53 | ug/L | | 91 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 2866 | 0.52 | ug/L | # | 70 |
| 37) propionitrile | 9.00 | 54 | 4114 | 4.45 | ug/L | | 63 |
| 38) bromochloromethane | 9.26 | 130 | 1841 | 0.50 | ug/L | | 79 |
| 39) tetrahydrofuran | 9.29 | 42 | 928 | 0.44 | ug/L | # | 48 |
| 40) chloroform | 9.35 | 83 | 5616 | 0.61 | ug/L | | 99 |
| 41) tert-butyl formate | 9.39 | 59 | 1905 | 0.51 | ug/L | | 92 |
| 44) methacrylonitrile | 9.18 | 67 | 988 | 0.43 | ug/L | # | 79 |
| 45) 1,1,1-trichloroethane | 9.61 | 97 | 4295 | 0.52 | ug/L | | 87 |
| 46) cyclohexane | 9.72 | 84 | 3915 | 0.50 | ug/L | # | 71 |
| 47) 1,1-dichloropropene | 9.78 | 75 | 3325 | 0.47 | ug/L | | 92 |
| 48) tert-amyl alcohol | 9.91 | 73 | 917 | 2.63 | ug/L | # | 48 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220737.D
Acq On : 13 Oct 2022 6:37 pm
Operator : PrashanS
Sample : IC9596-0.5
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 14 18:44:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 49) carbon tetrachloride | 9.80 | 117 | 3314 | 0.45 ug/L | | 92 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 11926 | 0.50 ug/L | | 94 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 7673 | 0.50 ug/L | | 91 |
| 55) benzene | 10.02 | 78 | 9740 | 0.50 ug/L | | 99 |
| 56) heptane | 10.28 | 57 | 2266 | 0.50 ug/L | # | 82 |
| 58) 1,2-dichloroethane | 10.05 | 62 | 4799 | 0.61 ug/L | | 85 |
| 59) trichloroethene | 10.75 | 95 | 2657 | 0.48 ug/L | | 81 |
| 64) 1,2-dichloropropane | 11.04 | 63 | 2743 | 0.47 ug/L | | 83 |
| 65) methylcyclohexane | 11.05 | 83 | 4474 | 0.50 ug/L | | 87 |
| 66) dibromomethane | 11.15 | 93 | 1614 | 0.50 ug/L | | 92 |
| 67) bromodichloromethane | 11.30 | 83 | 3316 | 0.46 ug/L | | 85 |
| 68) epichlorohydrin | 11.63 | 57 | 1409 | 2.12 ug/L | # | 55 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 4149 | 0.48 ug/L | | 88 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 4811 | 1.88 ug/L | | 94 |
| 74) toluene | 12.13 | 92 | 5880 | 0.49 ug/L | | 93 |
| 75) trans-1,3-dichloropropene | 12.33 | 75 | 3637 | 0.46 ug/L | | 94 |
| 76) ethyl methacrylate | 12.33 | 69 | 2844 | 0.41 ug/L | | 98 |
| 77) 1,1,2-trichloroethane | 12.55 | 83 | 1884 | 0.47 ug/L | | 92 |
| 78) 2-hexanone | 12.72 | 58 | 4815 | 1.72 ug/L | # | 84 |
| 79) tetrachloroethene | 12.69 | 166 | 3006 | 0.50 ug/L | | 87 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 3184 | 0.43 ug/L | | 85 |
| 81) butyl acetate | 12.80 | 56 | 2216 | 0.49 ug/L | # | 73 |
| 82) dibromochloromethane | 12.96 | 129 | 2591 | 0.45 ug/L | | 96 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 2492 | 0.50 ug/L | | 83 |
| 84) n-butyl ether | 13.56 | 57 | 12361 | 0.49 ug/L | # | 1 |
| 85) chlorobenzene | 13.60 | 112 | 6422 | 0.47 ug/L | | 90 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 2322 | 0.44 ug/L | | 85 |
| 87) ethylbenzene | 13.66 | 91 | 11248 | 0.52 ug/L | | 94 |
| 88) m,p-xylene | 13.78 | 106 | 8410 | 0.97 ug/L | | 94 |
| 89) o-xylene | 14.18 | 91 | 8631 | 0.50 ug/L | | 95 |
| 90) styrene | 14.19 | 104 | 6280 | 0.44 ug/L | | 96 |
| 92) bromoform | 14.42 | 173 | 1688 | 0.41 ug/L | | 70 |
| 94) isopropylbenzene | 14.53 | 105 | 10904 | 0.51 ug/L | | 91 |
| 98) bromobenzene | 14.91 | 156 | 2966 | 0.48 ug/L | | 94 |
| 99) 1,1,2,2-tetrachloroethane | 14.81 | 83 | 3074 | 0.53 ug/L | | 98 |
| 101) 1,2,3-trichloropropane | 14.88 | 110 | 678 | 0.44 ug/L | | 84 |
| 102) n-propylbenzene | 14.94 | 91 | 12412 | 0.50 ug/L | | 92 |
| 103) 2-chlorotoluene | 15.07 | 126 | 2680 | 0.48 ug/L | # | 85 |
| 104) 4-chlorotoluene | 15.18 | 91 | 7949 | 0.52 ug/L | | 95 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 8834 | 0.52 ug/L | | 96 |
| 106) tert-butylbenzene | 15.43 | 119 | 7529 | 0.49 ug/L | | 90 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 8578 | 0.49 ug/L | | 96 |
| 108) sec-butylbenzene | 15.65 | 105 | 11355 | 0.52 ug/L | | 96 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 5440 | 0.49 ug/L | | 93 |
| 110) p-isopropyltoluene | 15.79 | 119 | 9169 | 0.47 ug/L | | 96 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 9075 | 0.52 ug/L | | 92 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 5653 | 0.51 ug/L | | 91 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 5375 | 0.50 ug/L | | 94 |
| 115) n-butylbenzene | 16.20 | 92 | 4451 | 0.46 ug/L | # | 76 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 3817 | 0.45 ug/L | | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220737.D
Acq On : 13 Oct 2022 6:37 pm
Operator : PrashanS
Sample : IC9596-0.5
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 14 18:44:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

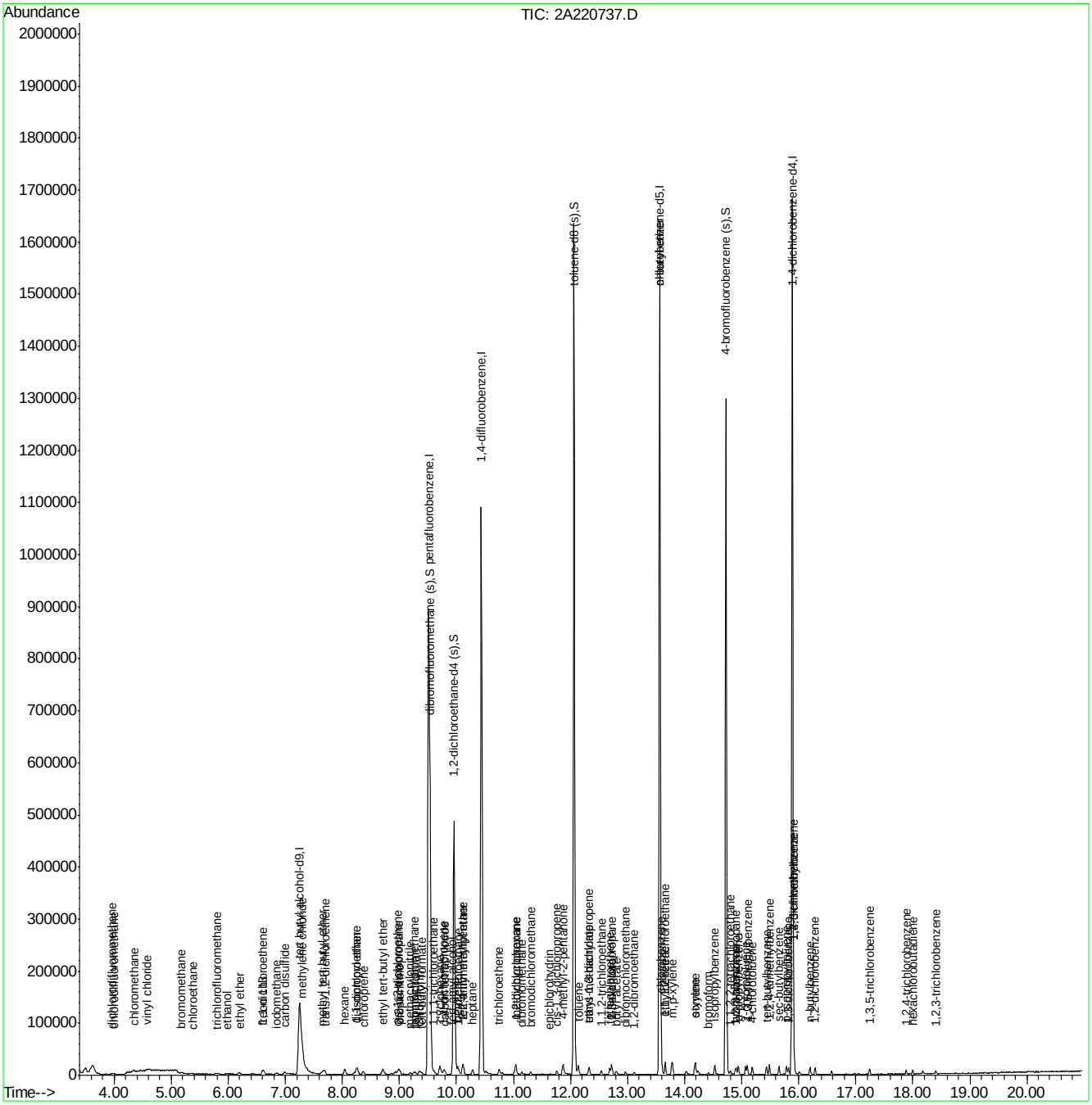
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 118) 1,2,4-trichlorobenzene | 17.89 | 180 | 2920 | 0.40 | ug/L | 90 |
| 119) hexachlorobutadiene | 18.00 | 225 | 1651 | 0.46 | ug/L | 87 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 2409 | 0.41 | ug/L | 85 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220737.D
Acq On : 13 Oct 2022 6:37 pm
Operator : PrashanS
Sample : IC9596-0.5
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 14 18:44:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220738.D
Acq On : 13 Oct 2022 7:06 pm
Operator : PrashanS
Sample : IC9596-1
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 18:45:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:01:31 2022
QLast Update : Fri Oct 14 09:05:34 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 350767 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 642531 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 10.43 | 114 | 880843 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 775180 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 394172 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 285034 | 50.31 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.62% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 351586 | 50.73 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.46% | | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 977538 | 49.57 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.14% | | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 375150 | 50.34 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.68% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 6750 | 95.54 | ug/L | | 69 |
| 3) tertiary butyl alcohol | 7.37 | 59 | 4235 | 4.72 | ug/L | | 68 |
| 6) chlorodifluoromethane | 3.99 | 51 | 9192 | 1.03 | ug/L | | 98 |
| 7) dichlorodifluoromethane | 3.97 | 85 | 6610 | 0.98 | ug/L | | 89 |
| 8) chloromethane | 4.35 | 50 | 10613 | 1.05 | ug/L | | 96 |
| 9) vinyl chloride | 4.57 | 62 | 7736 | 1.00 | ug/L | | 84 |
| 11) bromomethane | 5.20 | 94 | 4734 | 1.00 | ug/L | | 79 |
| 12) chloroethane | 5.36 | 64 | 4202 | 1.02 | ug/L | | 94 |
| 13) trichlorofluoromethane | 5.80 | 101 | 7577 | 0.91 | ug/L | | 92 |
| 14) ethyl ether | 6.19 | 74 | 2757 | 0.95 | ug/L | # | 66 |
| 16) freon 113 | 6.61 | 151 | 4511 | 1.00 | ug/L | # | 85 |
| 17) 1,1-dichloroethene | 6.61 | 96 | 5079 | 1.07 | ug/L | | 94 |
| 18) acetone | 6.62 | 43 | 15722 | 4.24 | ug/L | | 88 |
| 19) acetonitrile | 7.03 | 41 | 9454 | 10.93 | ug/L | | 80 |
| 20) iodomethane | 6.84 | 142 | 9276 | 1.03 | ug/L | | 94 |
| 21) carbon disulfide | 6.98 | 76 | 17763 | 1.06 | ug/L | | 92 |
| 22) methylene chloride | 7.30 | 84 | 5278 | 1.00 | ug/L | | 89 |
| 23) methyl acetate | 7.07 | 43 | 6086 | 1.07 | ug/L | | 68 |
| 24) methyl tert butyl ether | 7.67 | 73 | 14951 | 1.00 | ug/L | | 93 |
| 25) trans-1,2-dichloroethene | 7.69 | 96 | 5747 | 1.08 | ug/L | | 96 |
| 26) hexane | 8.04 | 57 | 11574 | 1.06 | ug/L | | 95 |
| 27) di-isopropyl ether | 8.25 | 45 | 23915 | 1.04 | ug/L | | 95 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 19782 | 1.00 | ug/L | | 99 |
| 29) 2-butanone | 8.91 | 72 | 2811 | 3.96 | ug/L | # | 45 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 10864 | 1.06 | ug/L | | 95 |
| 31) chloroprene | 8.36 | 53 | 9832 | 1.01 | ug/L | | 91 |
| 32) acrylonitrile | 7.60 | 53 | 2019 | 0.82 | ug/L | # | 80 |
| 33) vinyl acetate | 8.21 | 86 | 593 | 0.76 | ug/L | # | 1 |
| 34) ethyl acetate | 8.93 | 45 | 1083 | 0.98 | ug/L | # | 55 |
| 35) 2,2-dichloropropane | 8.99 | 77 | 8315 | 1.07 | ug/L | | 88 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 6125 | 1.07 | ug/L | | 85 |
| 37) propionitrile | 8.99 | 54 | 8607 | 9.35 | ug/L | | 96 |
| 38) bromochloromethane | 9.26 | 130 | 3585 | 0.98 | ug/L | | 82 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220738.D
Acq On : 13 Oct 2022 7:06 pm
Operator : PrashanS
Sample : IC9596-1
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 18:45:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:01:31 2022
QLast Update : Fri Oct 14 09:05:34 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 39) tetrahydrofuran | 9.29 | 42 | 2239 | 1.03 ug/L | | 92 |
| 40) chloroform | 9.35 | 83 | 10647 | 1.09 ug/L | | 97 |
| 41) tert-butyl formate | 9.39 | 59 | 3901 | 1.00 ug/L | | 91 |
| 44) methacrylonitrile | 9.19 | 67 | 2208 | 0.97 ug/L | | 84 |
| 45) 1,1,1-trichloroethane | 9.60 | 97 | 8667 | 1.04 ug/L | | 95 |
| 46) cyclohexane | 9.72 | 84 | 7865 | 0.98 ug/L | # | 67 |
| 47) 1,1-dichloropropene | 9.78 | 75 | 7162 | 1.01 ug/L | | 93 |
| 48) tert-amyl alcohol | 9.92 | 73 | 2005 | 5.50 ug/L | # | 41 |
| 49) carbon tetrachloride | 9.80 | 117 | 7187 | 0.99 ug/L | | 99 |
| 52) 2,2,4-trimethylpentane | 10.11 | 57 | 25009 | 1.02 ug/L | | 97 |
| 53) tert-amyl methyl ether | 10.10 | 73 | 16421 | 1.01 ug/L | | 95 |
| 54) n-butyl alcohol | 10.51 | 56 | 10020 | 50.36 ug/L | | 93 |
| 55) benzene | 10.02 | 78 | 20455 | 1.02 ug/L | | 95 |
| 56) heptane | 10.28 | 57 | 4548 | 0.96 ug/L | | 92 |
| 57) isopropyl acetate | 9.95 | 87 | 899 | 0.77 ug/L | # | 19 |
| 58) 1,2-dichloroethane | 10.04 | 62 | 9259 | 1.09 ug/L | | 94 |
| 59) trichloroethene | 10.74 | 95 | 5444 | 0.98 ug/L | | 75 |
| 60) ethyl acrylate | 10.74 | 55 | 9185 | 1.03 ug/L | | 98 |
| 61) 2-nitropropane | 11.50 | 41 | 1461 | 0.97 ug/L | # | 75 |
| 63) methyl methacrylate | 11.01 | 100 | 1221 | 0.85 ug/L | # | 70 |
| 64) 1,2-dichloropropane | 11.04 | 63 | 5874 | 0.99 ug/L | | 99 |
| 65) methylcyclohexane | 11.04 | 83 | 9293 | 1.00 ug/L | | 93 |
| 66) dibromomethane | 11.15 | 93 | 3240 | 1.01 ug/L | | 92 |
| 67) bromodichloromethane | 11.29 | 83 | 7250 | 1.00 ug/L | | 97 |
| 68) epichlorohydrin | 11.63 | 57 | 3449 | 5.21 ug/L | | 93 |
| 69) cis-1,3-dichloropropene | 11.76 | 75 | 8507 | 0.98 ug/L | | 93 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 9422 | 3.74 ug/L | | 93 |
| 71) 3-methyl-1-butanol | 11.89 | 70 | 2469 | 16.64 ug/L | # | 61 |
| 74) toluene | 12.14 | 92 | 12543 | 1.02 ug/L | | 98 |
| 75) trans-1,3-dichloropropene | 12.33 | 75 | 7796 | 1.01 ug/L | | 94 |
| 76) ethyl methacrylate | 12.33 | 69 | 6223 | 0.93 ug/L | | 89 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 4039 | 1.02 ug/L | | 91 |
| 78) 2-hexanone | 12.71 | 58 | 10743 | 4.01 ug/L | | 98 |
| 79) tetrachloroethene | 12.69 | 166 | 6643 | 1.03 ug/L | | 92 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 7397 | 0.99 ug/L | | 95 |
| 81) butyl acetate | 12.80 | 56 | 4525 | 1.02 ug/L | # | 80 |
| 82) dibromochloromethane | 12.96 | 129 | 5079 | 0.89 ug/L | | 91 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 5174 | 1.04 ug/L | | 96 |
| 84) n-butyl ether | 13.56 | 57 | 24763 | 0.97 ug/L | # | 41 |
| 85) chlorobenzene | 13.59 | 112 | 13630 | 1.00 ug/L | | 96 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 5178 | 0.99 ug/L | | 94 |
| 87) ethylbenzene | 13.66 | 91 | 22935 | 1.02 ug/L | | 91 |
| 88) m,p-xylene | 13.78 | 106 | 16982 | 1.94 ug/L | | 96 |
| 89) o-xylene | 14.18 | 91 | 18224 | 1.03 ug/L | | 94 |
| 90) styrene | 14.19 | 104 | 13428 | 0.98 ug/L | | 96 |
| 91) n-amyl acetate | 14.23 | 70 | 2794 | 0.81 ug/L | | 92 |
| 92) bromoform | 14.41 | 173 | 3461 | 0.89 ug/L | | 91 |
| 93) butyl acrylate | 14.02 | 55 | 10472 | 0.85 ug/L | | 98 |
| 94) isopropylbenzene | 14.52 | 105 | 22370 | 1.02 ug/L | | 98 |
| 98) bromobenzene | 14.90 | 156 | 6265 | 0.98 ug/L | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220738.D
Acq On : 13 Oct 2022 7:06 pm
Operator : PrashanS
Sample : IC9596-1
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 18:45:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:01:31 2022
QLast Update : Fri Oct 14 09:05:34 2022
Response via : Initial Calibration

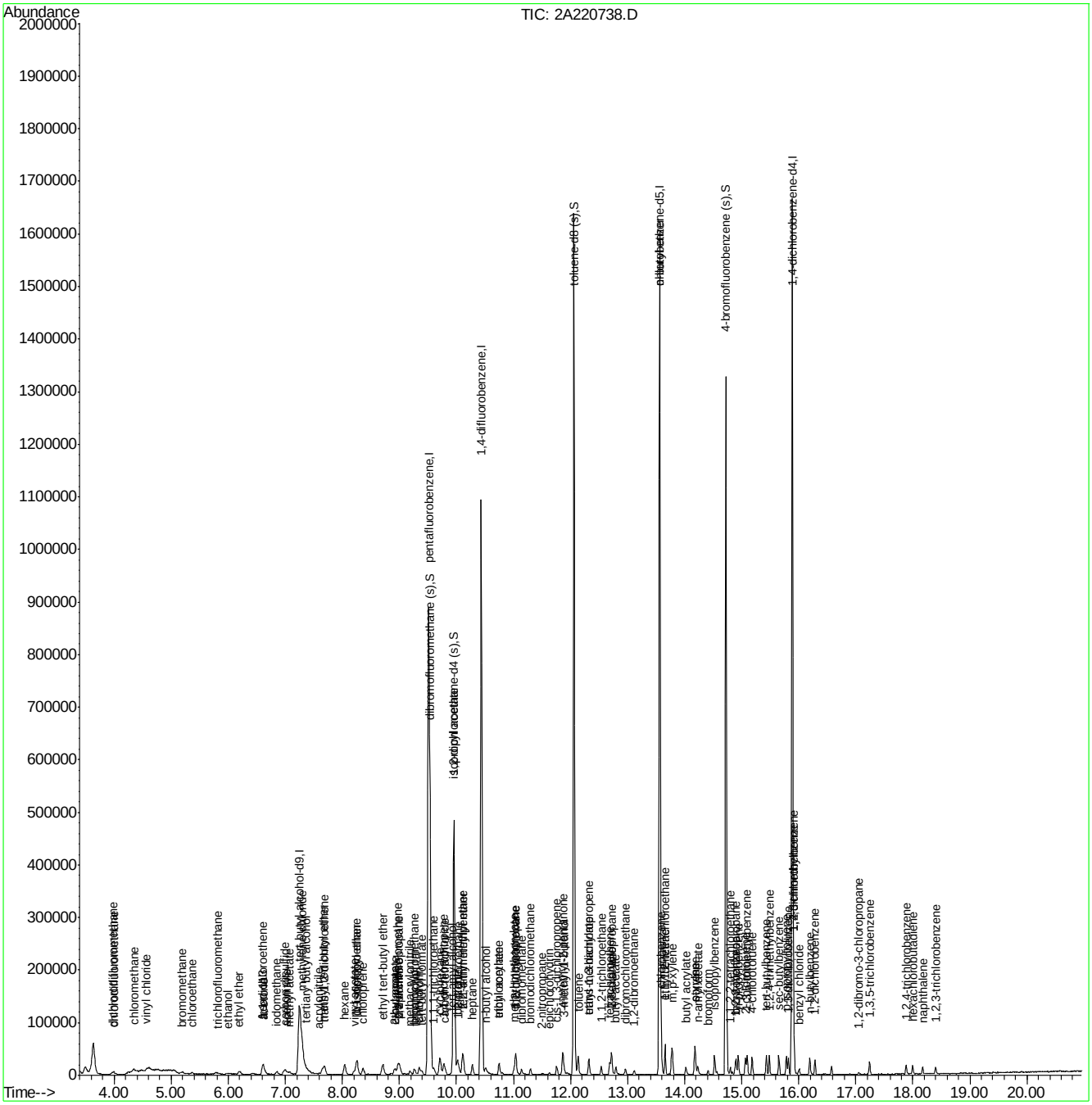
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 5896 | 0.99 | ug/L | 91 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 1506 | 0.98 | ug/L | 91 |
| 102) n-propylbenzene | 14.94 | 91 | 26686 | 1.05 | ug/L | 94 |
| 103) 2-chlorotoluene | 15.07 | 126 | 5662 | 1.00 | ug/L | 99 |
| 104) 4-chlorotoluene | 15.18 | 91 | 16472 | 1.04 | ug/L | 91 |
| 105) 1,3,5-trimethylbenzene | 15.09 | 105 | 17868 | 1.02 | ug/L | 92 |
| 106) tert-butylbenzene | 15.43 | 119 | 16084 | 1.03 | ug/L | 100 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 17642 | 1.00 | ug/L | 96 |
| 108) sec-butylbenzene | 15.65 | 105 | 23049 | 1.02 | ug/L | 93 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 11885 | 1.04 | ug/L | 95 |
| 110) p-isopropyltoluene | 15.79 | 119 | 19482 | 1.01 | ug/L | 95 |
| 111) benzyl chloride | 16.01 | 91 | 7317 | 0.82 | ug/L | 92 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 18241 | 1.02 | ug/L | 98 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 11635 | 1.01 | ug/L | 90 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 10566 | 0.96 | ug/L | 95 |
| 115) n-butylbenzene | 16.20 | 92 | 8920 | 0.94 | ug/L | 92 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 1056 | 0.86 | ug/L | 97 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 8175 | 0.98 | ug/L | 98 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 6484 | 0.96 | ug/L | 89 |
| 119) hexachlorobutadiene | 18.00 | 225 | 3369 | 0.94 | ug/L | 83 |
| 120) naphthalene | 18.18 | 128 | 10322 | 0.86 | ug/L | 97 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 4793 | 0.88 | ug/L | 95 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220738.D
Acq On : 13 Oct 2022 7:06 pm
Operator : PrashanS
Sample : IC9596-1
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 18:45:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:01:31 2022
QLast Update : Fri Oct 14 09:05:34 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220739.D
Acq On : 13 Oct 2022 7:34 pm
Operator : PrashanS
Sample : IC9596-2
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 18:45:50 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 359118 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 640339 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.43 | 114 | 880120 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 772316 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 397328 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 282777 | 50.10 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.20% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 351128 | 51.65 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 103.30% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 982565 | 49.93 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.86% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 373196 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 14963 | 212.46 | ug/L | 91 |
| 3) tertiary butyl alcohol | 7.37 | 59 | 10265 | 11.45 | ug/L | 81 |
| 4) 1,4-dioxane | 11.08 | 88 | 2096 | 37.24 | ug/L # | 77 |
| 6) chlorodifluoromethane | 3.98 | 51 | 19564 | 2.24 | ug/L | 94 |
| 7) dichlorodifluoromethane | 3.96 | 85 | 14532 | 2.15 | ug/L | 88 |
| 8) chloromethane | 4.34 | 50 | 21663 | 2.27 | ug/L | 98 |
| 9) vinyl chloride | 4.57 | 62 | 16451 | 2.14 | ug/L | 98 |
| 10) 1,3-butadiene | 4.62 | 54 | 12666 | 2.26 | ug/L | 95 |
| 11) bromomethane | 5.20 | 94 | 9841 | 2.20 | ug/L | 95 |
| 12) chloroethane | 5.36 | 64 | 9243 | 2.24 | ug/L | 90 |
| 13) trichlorofluoromethane | 5.78 | 101 | 17540 | 2.07 | ug/L | 97 |
| 14) ethyl ether | 6.20 | 74 | 6280 | 2.20 | ug/L | 83 |
| 15) acrolein | 6.43 | 56 | 3110 | 2.63 | ug/L | 73 |
| 16) freon 113 | 6.61 | 151 | 9766 | 2.19 | ug/L | 95 |
| 17) 1,1-dichloroethene | 6.61 | 96 | 10177 | 2.29 | ug/L | 98 |
| 18) acetone | 6.61 | 43 | 33325 | 10.39 | ug/L | 95 |
| 19) acetonitrile | 7.03 | 41 | 18037 | 22.08 | ug/L | 87 |
| 20) iodomethane | 6.84 | 142 | 19663 | 2.19 | ug/L | 99 |
| 21) carbon disulfide | 6.98 | 76 | 34632 | 2.26 | ug/L | 93 |
| 22) methylene chloride | 7.30 | 84 | 11558 | 2.28 | ug/L | 96 |
| 23) methyl acetate | 7.07 | 43 | 13204 | 2.49 | ug/L | 96 |
| 24) methyl tert butyl ether | 7.66 | 73 | 32672 | 2.31 | ug/L | 95 |
| 25) trans-1,2-dichloroethene | 7.68 | 96 | 12002 | 2.41 | ug/L | 94 |
| 26) hexane | 8.04 | 57 | 22743 | 2.23 | ug/L | 94 |
| 27) di-isopropyl ether | 8.25 | 45 | 50750 | 2.35 | ug/L | 96 |
| 28) ethyl tert-butyl ether | 8.70 | 59 | 43528 | 2.28 | ug/L | 95 |
| 29) 2-butanone | 8.91 | 72 | 6150 | 8.34 | ug/L # | 89 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 22136 | 2.21 | ug/L | 96 |
| 31) chloroprene | 8.36 | 53 | 20357 | 2.11 | ug/L | 96 |
| 32) acrylonitrile | 7.60 | 53 | 4635 | 1.84 | ug/L | 94 |
| 33) vinyl acetate | 8.20 | 86 | 1487 | 1.88 | ug/L # | 54 |
| 34) ethyl acetate | 8.92 | 45 | 2390 | 2.25 | ug/L | 83 |
| 35) 2,2-dichloropropane | 8.99 | 77 | 16857 | 2.33 | ug/L | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220739.D
Acq On : 13 Oct 2022 7:34 pm
Operator : PrashanS
Sample : IC9596-2
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 18:45:50 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 12062 | 2.20 | ug/L | | 94 |
| 37) propionitrile | 8.98 | 54 | 21084 | 22.98 | ug/L | | 84 |
| 38) bromochloromethane | 9.26 | 130 | 7979 | 2.18 | ug/L | | 96 |
| 39) tetrahydrofuran | 9.29 | 42 | 4986 | 2.39 | ug/L | | 90 |
| 40) chloroform | 9.34 | 83 | 21163 | 2.32 | ug/L | | 95 |
| 41) tert-butyl formate | 9.38 | 59 | 8789 | 2.35 | ug/L | | 94 |
| 42) isobutyl alcohol | 9.76 | 43 | 6474 | 17.85 | ug/L | # | 76 |
| 44) methacrylonitrile | 9.19 | 67 | 4978 | 2.18 | ug/L | | 86 |
| 45) 1,1,1-trichloroethane | 9.60 | 97 | 17852 | 2.19 | ug/L | | 95 |
| 46) cyclohexane | 9.72 | 84 | 17116 | 2.21 | ug/L | | 95 |
| 47) 1,1-dichloropropene | 9.77 | 75 | 15385 | 2.19 | ug/L | | 90 |
| 48) tert-amyl alcohol | 9.91 | 73 | 3704 | 10.71 | ug/L | # | 76 |
| 49) carbon tetrachloride | 9.80 | 117 | 15694 | 2.15 | ug/L | | 98 |
| 52) 2,2,4-trimethylpentane | 10.11 | 57 | 53214 | 2.24 | ug/L | | 98 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 35680 | 2.32 | ug/L | | 99 |
| 54) n-butyl alcohol | 10.51 | 56 | 22390 | 103.72 | ug/L | | 97 |
| 55) benzene | 10.02 | 78 | 42884 | 2.20 | ug/L | | 98 |
| 56) heptane | 10.28 | 57 | 10192 | 2.25 | ug/L | | 94 |
| 57) isopropyl acetate | 9.94 | 87 | 2395 | 2.05 | ug/L | # | 81 |
| 58) 1,2-dichloroethane | 10.05 | 62 | 18629 | 2.35 | ug/L | | 97 |
| 59) trichloroethene | 10.74 | 95 | 11847 | 2.12 | ug/L | | 96 |
| 60) ethyl acrylate | 10.74 | 55 | 19705 | 2.23 | ug/L | | 95 |
| 61) 2-nitropropane | 11.50 | 41 | 2841 | 1.77 | ug/L | | 83 |
| 62) 2-chloroethyl vinyl ether | 11.54 | 63 | 2420 | 1.52 | ug/L | | 86 |
| 63) methyl methacrylate | 11.01 | 100 | 2830 | 1.95 | ug/L | # | 61 |
| 64) 1,2-dichloropropane | 11.04 | 63 | 13031 | 2.23 | ug/L | | 90 |
| 65) methylcyclohexane | 11.04 | 83 | 19521 | 2.18 | ug/L | | 96 |
| 66) dibromomethane | 11.14 | 93 | 7135 | 2.19 | ug/L | | 91 |
| 67) bromodichloromethane | 11.29 | 83 | 15814 | 2.21 | ug/L | | 95 |
| 68) epichlorohydrin | 11.62 | 57 | 7149 | 10.74 | ug/L | | 95 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 18471 | 2.14 | ug/L | | 96 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 22907 | 8.92 | ug/L | | 99 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 6117 | 38.13 | ug/L | # | 86 |
| 74) toluene | 12.13 | 92 | 25673 | 2.12 | ug/L | | 93 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 16286 | 2.07 | ug/L | | 96 |
| 76) ethyl methacrylate | 12.32 | 69 | 15004 | 2.15 | ug/L | | 91 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 8796 | 2.19 | ug/L | | 96 |
| 78) 2-hexanone | 12.71 | 58 | 24395 | 8.73 | ug/L | | 96 |
| 79) tetrachloroethene | 12.69 | 166 | 14258 | 2.36 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 16588 | 2.22 | ug/L | | 97 |
| 81) butyl acetate | 12.79 | 56 | 9310 | 2.08 | ug/L | # | 84 |
| 82) dibromochloromethane | 12.96 | 129 | 11643 | 2.00 | ug/L | | 96 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 10537 | 2.10 | ug/L | | 96 |
| 84) n-butyl ether | 13.56 | 57 | 55171 | 2.19 | ug/L | | 73 |
| 85) chlorobenzene | 13.60 | 112 | 28957 | 2.13 | ug/L | | 96 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 11252 | 2.14 | ug/L | | 94 |
| 87) ethylbenzene | 13.66 | 91 | 48706 | 2.24 | ug/L | | 95 |
| 88) m,p-xylene | 13.78 | 106 | 37198 | 4.29 | ug/L | | 94 |
| 89) o-xylene | 14.18 | 91 | 38582 | 2.22 | ug/L | | 100 |
| 90) styrene | 14.19 | 104 | 28864 | 2.02 | ug/L | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220739.D
Acq On : 13 Oct 2022 7:34 pm
Operator : PrashanS
Sample : IC9596-2
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 18:45:50 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

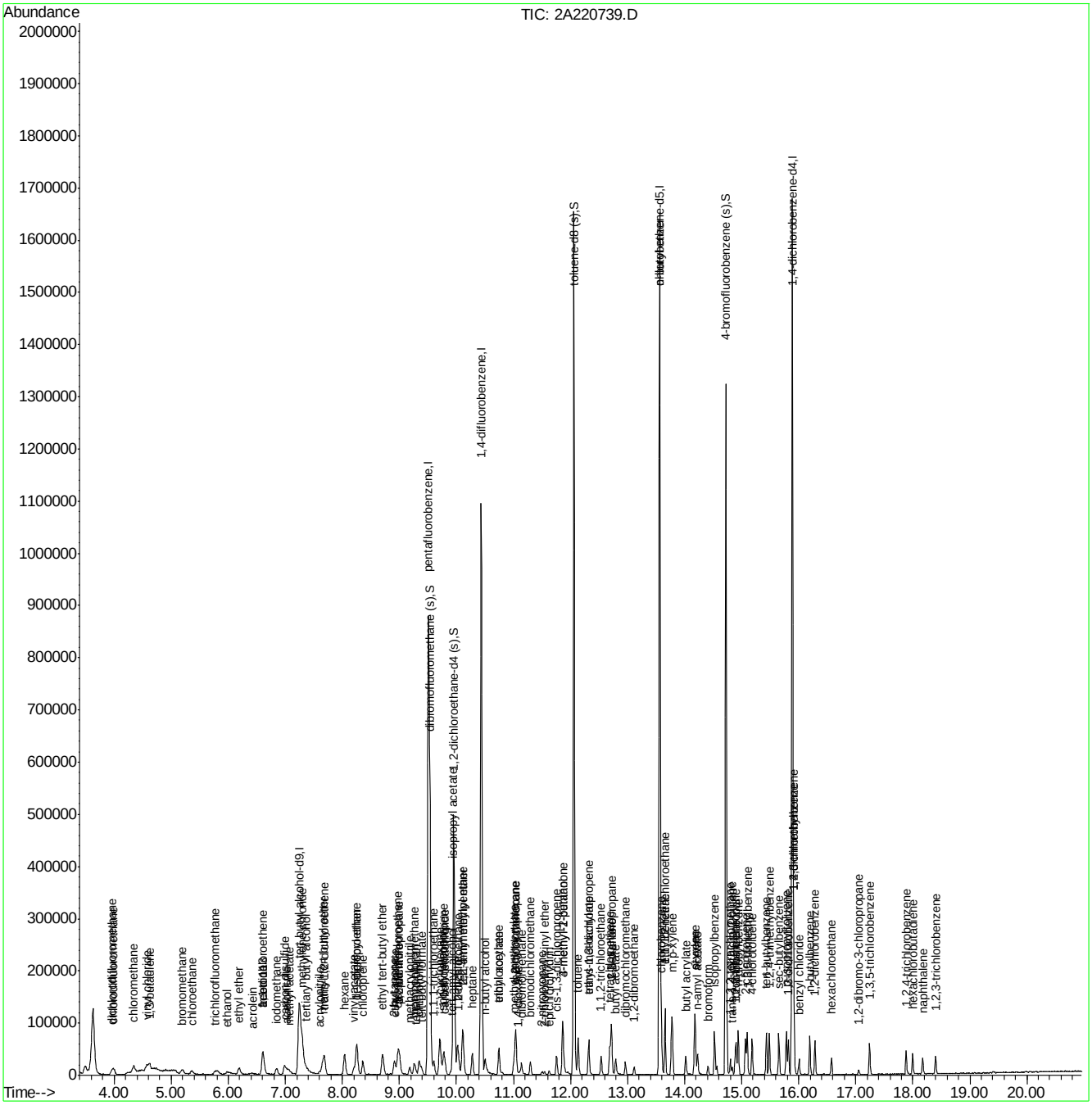
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) n-amyl acetate | 14.23 | 70 | 6710 | 1.85 | ug/L | 92 |
| 92) bromoform | 14.41 | 173 | 7738 | 1.86 | ug/L | 94 |
| 93) butyl acrylate | 14.02 | 55 | 25656 | 1.91 | ug/L | 98 |
| 94) isopropylbenzene | 14.52 | 105 | 47402 | 2.23 | ug/L | 99 |
| 98) bromobenzene | 14.90 | 156 | 13975 | 2.23 | ug/L | 96 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 13119 | 2.22 | ug/L | 99 |
| 100) trans-1,4-dichloro-2-buten | 14.84 | 53 | 2823 | 1.50 | ug/L | 86 |
| 101) 1,2,3-trichloropropane | 14.88 | 110 | 3313 | 2.14 | ug/L | 94 |
| 102) n-propylbenzene | 14.94 | 91 | 56458 | 2.27 | ug/L | 98 |
| 103) 2-chlorotoluene | 15.07 | 126 | 12014 | 2.13 | ug/L | 93 |
| 104) 4-chlorotoluene | 15.18 | 91 | 34603 | 2.24 | ug/L | 99 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 37364 | 2.16 | ug/L | 99 |
| 106) tert-butylbenzene | 15.44 | 119 | 34178 | 2.20 | ug/L | 95 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 38603 | 2.20 | ug/L | 99 |
| 108) sec-butylbenzene | 15.66 | 105 | 47900 | 2.15 | ug/L | 98 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 24803 | 2.23 | ug/L | 96 |
| 110) p-isopropyltoluene | 15.79 | 119 | 42458 | 2.16 | ug/L | 96 |
| 111) benzyl chloride | 16.01 | 91 | 17703 | 1.72 | ug/L | 94 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 39261 | 2.23 | ug/L | 95 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 25130 | 2.24 | ug/L | 96 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 23992 | 2.21 | ug/L | 96 |
| 115) n-butylbenzene | 16.20 | 92 | 19382 | 2.00 | ug/L | 93 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 2400 | 1.85 | ug/L | 89 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 18024 | 2.10 | ug/L | 94 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 13758 | 1.87 | ug/L | 87 |
| 119) hexachlorobutadiene | 18.00 | 225 | 7305 | 2.00 | ug/L | 96 |
| 120) naphthalene | 18.17 | 128 | 24216 | 1.77 | ug/L | 94 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 10704 | 1.80 | ug/L | 98 |
| 122) hexachloroethane | 16.57 | 201 | 4066 | 1.32 | ug/L | 90 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220739.D
Acq On : 13 Oct 2022 7:34 pm
Operator : PrashanS
Sample : IC9596-2
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 18:45:50 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220740.D
Acq On : 13 Oct 2022 8:03 pm
Operator : PrashanS
Sample : IC9596-4
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 14 18:46:04 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 344694 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 644206 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.43 | 114 | 875319 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 777140 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 394940 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 283673 | 49.96 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.92% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.96 | 65 | 348345 | 51.52 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 103.04% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 978492 | 49.41 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.82% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 373931 | 50.40 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.80% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.99 | 45 | 28045 | 414.87 | ug/L | 92 |
| 3) tertiary butyl alcohol | 7.37 | 59 | 18253 | 21.21 | ug/L | 90 |
| 4) 1,4-dioxane | 11.08 | 88 | 4896 | 90.64 | ug/L | 92 |
| 6) chlorodifluoromethane | 4.00 | 51 | 37269 | 4.25 | ug/L | 98 |
| 7) dichlorodifluoromethane | 3.97 | 85 | 27159 | 4.00 | ug/L | 99 |
| 8) chloromethane | 4.36 | 50 | 40045 | 4.18 | ug/L | 93 |
| 9) vinyl chloride | 4.58 | 62 | 32278 | 4.17 | ug/L | 98 |
| 10) 1,3-butadiene | 4.63 | 54 | 25652 | 4.56 | ug/L | 89 |
| 11) bromomethane | 5.20 | 94 | 19520 | 4.34 | ug/L | 81 |
| 12) chloroethane | 5.36 | 64 | 17273 | 4.16 | ug/L | 97 |
| 13) trichlorofluoromethane | 5.79 | 101 | 33802 | 3.96 | ug/L | 88 |
| 14) ethyl ether | 6.20 | 74 | 12275 | 4.28 | ug/L | 89 |
| 15) acrolein | 6.43 | 56 | 5176 | 4.35 | ug/L | 74 |
| 16) freon 113 | 6.62 | 151 | 18285 | 4.07 | ug/L | 86 |
| 17) 1,1-dichloroethene | 6.61 | 96 | 19893 | 4.44 | ug/L | 99 |
| 18) acetone | 6.61 | 43 | 59335 | 18.38 | ug/L | 95 |
| 19) acetonitrile | 7.02 | 41 | 37473 | 45.59 | ug/L | 91 |
| 20) iodomethane | 6.85 | 142 | 37978 | 4.20 | ug/L | 98 |
| 21) carbon disulfide | 6.99 | 76 | 68183 | 4.43 | ug/L | 95 |
| 22) methylene chloride | 7.30 | 84 | 21968 | 4.32 | ug/L | 97 |
| 23) methyl acetate | 7.07 | 43 | 24441 | 4.57 | ug/L | 95 |
| 24) methyl tert butyl ether | 7.66 | 73 | 61429 | 4.32 | ug/L | 99 |
| 25) trans-1,2-dichloroethene | 7.69 | 96 | 21153 | 4.22 | ug/L | 98 |
| 26) hexane | 8.04 | 57 | 41808 | 4.07 | ug/L | 96 |
| 27) di-isopropyl ether | 8.25 | 45 | 95561 | 4.40 | ug/L | 96 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 82522 | 4.29 | ug/L | 96 |
| 29) 2-butanone | 8.90 | 72 | 12300 | 16.57 | ug/L # | 83 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 43241 | 4.29 | ug/L | 97 |
| 31) chloroprene | 8.36 | 53 | 39948 | 4.12 | ug/L | 97 |
| 32) acrylonitrile | 7.59 | 53 | 10592 | 4.17 | ug/L | 95 |
| 33) vinyl acetate | 8.20 | 86 | 3616 | 4.55 | ug/L # | 59 |
| 34) ethyl acetate | 8.92 | 45 | 4778 | 4.46 | ug/L | 83 |
| 35) 2,2-dichloropropane | 9.00 | 77 | 31922 | 4.39 | ug/L | 92 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220740.D
Acq On : 13 Oct 2022 8:03 pm
Operator : PrashanS
Sample : IC9596-4
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 14 18:46:04 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 23758 | 4.30 | ug/L | | 96 |
| 37) propionitrile | 8.98 | 54 | 39668 | 42.97 | ug/L | | 80 |
| 38) bromochloromethane | 9.26 | 130 | 15329 | 4.16 | ug/L | | 94 |
| 39) tetrahydrofuran | 9.29 | 42 | 9627 | 4.58 | ug/L | | 94 |
| 40) chloroform | 9.35 | 83 | 39185 | 4.26 | ug/L | | 97 |
| 41) tert-butyl formate | 9.39 | 59 | 16024 | 4.26 | ug/L | | 96 |
| 42) isobutyl alcohol | 9.75 | 43 | 13394 | 36.71 | ug/L | | 96 |
| 44) methacrylonitrile | 9.18 | 67 | 9274 | 4.04 | ug/L | | 98 |
| 45) 1,1,1-trichloroethane | 9.61 | 97 | 33721 | 4.11 | ug/L | | 98 |
| 46) cyclohexane | 9.72 | 84 | 31916 | 4.09 | ug/L | | 88 |
| 47) 1,1-dichloropropene | 9.77 | 75 | 28759 | 4.07 | ug/L | | 95 |
| 48) tert-amyl alcohol | 9.91 | 73 | 7237 | 20.80 | ug/L | | 97 |
| 49) carbon tetrachloride | 9.80 | 117 | 29802 | 4.06 | ug/L | | 96 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 98722 | 4.18 | ug/L | | 96 |
| 53) tert-amyl methyl ether | 10.10 | 73 | 67164 | 4.39 | ug/L | | 96 |
| 54) n-butyl alcohol | 10.51 | 56 | 39776 | 185.27 | ug/L | | 98 |
| 55) benzene | 10.02 | 78 | 83104 | 4.28 | ug/L | | 99 |
| 56) heptane | 10.28 | 57 | 19114 | 4.23 | ug/L | | 96 |
| 57) isopropyl acetate | 9.95 | 87 | 4948 | 4.26 | ug/L | # | 64 |
| 58) 1,2-dichloroethane | 10.05 | 62 | 34925 | 4.42 | ug/L | | 95 |
| 59) trichloroethene | 10.75 | 95 | 23254 | 4.18 | ug/L | | 96 |
| 60) ethyl acrylate | 10.74 | 55 | 36652 | 4.17 | ug/L | | 95 |
| 61) 2-nitropropane | 11.50 | 41 | 6009 | 3.77 | ug/L | # | 79 |
| 62) 2-chloroethyl vinyl ether | 11.54 | 63 | 7146 | 4.50 | ug/L | | 87 |
| 63) methyl methacrylate | 11.00 | 100 | 5996 | 4.16 | ug/L | # | 88 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 24786 | 4.27 | ug/L | | 99 |
| 65) methylcyclohexane | 11.05 | 83 | 36023 | 4.04 | ug/L | | 94 |
| 66) dibromomethane | 11.14 | 93 | 13652 | 4.22 | ug/L | | 99 |
| 67) bromodichloromethane | 11.29 | 83 | 29937 | 4.20 | ug/L | | 97 |
| 68) epichlorohydrin | 11.62 | 57 | 13779 | 20.82 | ug/L | | 99 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 36020 | 4.19 | ug/L | | 95 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 43417 | 17.00 | ug/L | | 93 |
| 71) 3-methyl-1-butanol | 11.88 | 70 | 12098 | 75.83 | ug/L | | 98 |
| 74) toluene | 12.13 | 92 | 50695 | 4.17 | ug/L | | 99 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 31017 | 3.92 | ug/L | | 96 |
| 76) ethyl methacrylate | 12.32 | 69 | 28473 | 4.05 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 16427 | 4.06 | ug/L | | 94 |
| 78) 2-hexanone | 12.71 | 58 | 45944 | 16.33 | ug/L | # | 87 |
| 79) tetrachloroethene | 12.69 | 166 | 26023 | 4.28 | ug/L | | 96 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 31000 | 4.12 | ug/L | | 95 |
| 81) butyl acetate | 12.79 | 56 | 17801 | 3.95 | ug/L | | 98 |
| 82) dibromochloromethane | 12.96 | 129 | 22526 | 3.85 | ug/L | | 95 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 21151 | 4.19 | ug/L | | 94 |
| 84) n-butyl ether | 13.56 | 57 | 107193 | 4.23 | ug/L | | 89 |
| 85) chlorobenzene | 13.59 | 112 | 57178 | 4.19 | ug/L | | 86 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 21091 | 3.98 | ug/L | | 94 |
| 87) ethylbenzene | 13.66 | 91 | 93417 | 4.27 | ug/L | | 97 |
| 88) m,p-xylene | 13.78 | 106 | 71388 | 8.18 | ug/L | | 85 |
| 89) o-xylene | 14.18 | 91 | 74265 | 4.25 | ug/L | | 97 |
| 90) styrene | 14.19 | 104 | 59085 | 4.12 | ug/L | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220740.D
Acq On : 13 Oct 2022 8:03 pm
Operator : PrashanS
Sample : IC9596-4
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 14 18:46:04 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

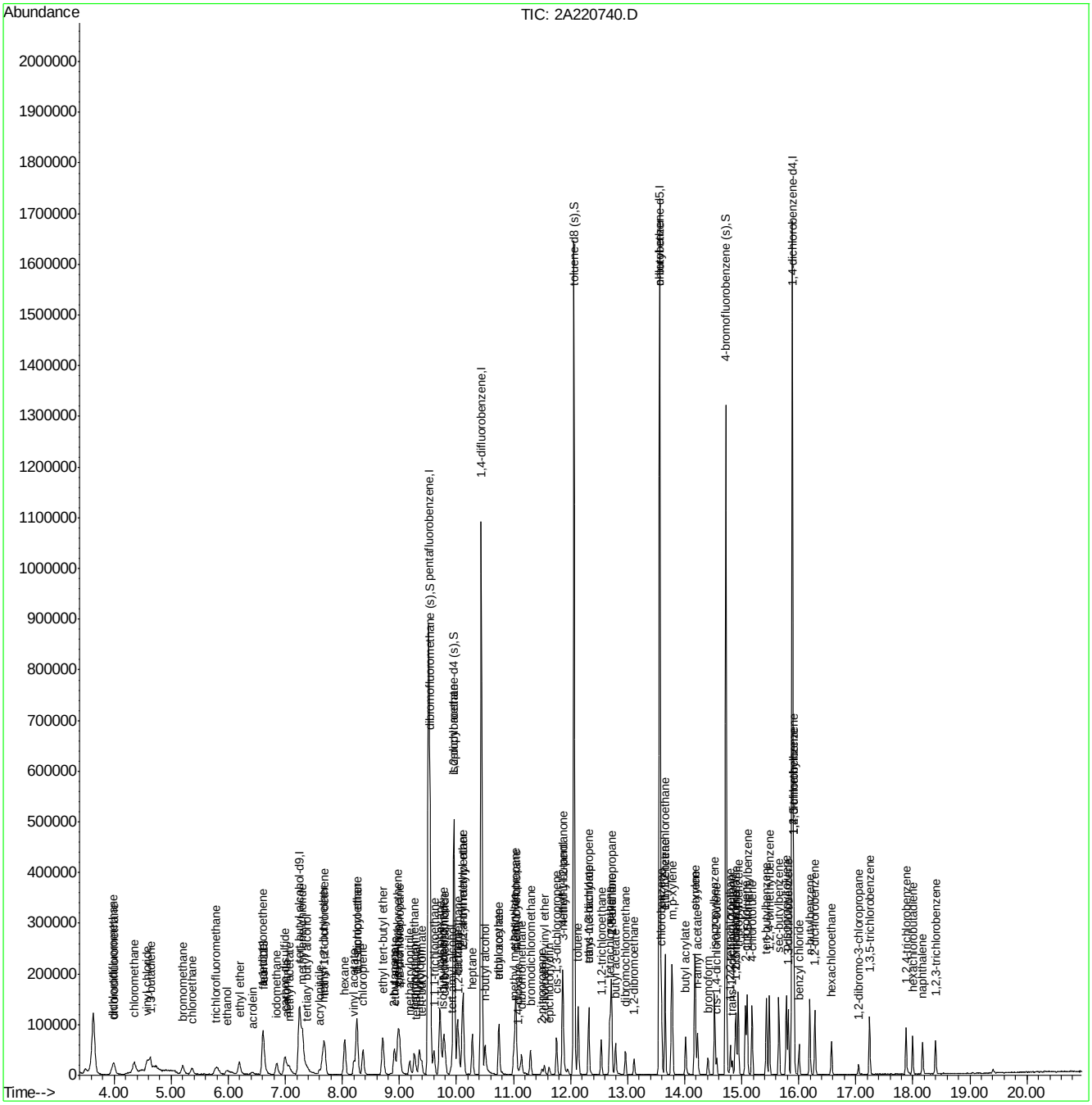
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) n-amyl acetate | 14.22 | 70 | 13702 | 3.76 | ug/L | 88 |
| 92) bromoform | 14.41 | 173 | 15268 | 3.66 | ug/L | 94 |
| 93) butyl acrylate | 14.01 | 55 | 51307 | 3.80 | ug/L | 96 |
| 94) isopropylbenzene | 14.52 | 105 | 90703 | 4.24 | ug/L | 97 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 6235 | 2.95 | ug/L | 92 |
| 98) bromobenzene | 14.91 | 156 | 26487 | 4.26 | ug/L | 92 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 24154 | 4.11 | ug/L | 97 |
| 100) trans-1,4-dichloro-2-buten | 14.84 | 53 | 5780 | 3.09 | ug/L | 90 |
| 101) 1,2,3-trichloropropane | 14.88 | 110 | 6601 | 4.30 | ug/L | 95 |
| 102) n-propylbenzene | 14.94 | 91 | 108048 | 4.37 | ug/L | 93 |
| 103) 2-chlorotoluene | 15.07 | 126 | 23486 | 4.18 | ug/L | 98 |
| 104) 4-chlorotoluene | 15.18 | 91 | 68211 | 4.44 | ug/L | 91 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 73026 | 4.24 | ug/L | 96 |
| 106) tert-butylbenzene | 15.44 | 119 | 64513 | 4.17 | ug/L | 98 |
| 107) 1,2,4-trimethylbenzene | 15.48 | 105 | 74036 | 4.25 | ug/L | 95 |
| 108) sec-butylbenzene | 15.65 | 105 | 95274 | 4.31 | ug/L | 95 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 47407 | 4.29 | ug/L | 97 |
| 110) p-isopropyltoluene | 15.79 | 119 | 80437 | 4.12 | ug/L | 98 |
| 111) benzyl chloride | 16.01 | 91 | 35538 | 3.47 | ug/L | 91 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 74697 | 4.28 | ug/L | 94 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 47592 | 4.27 | ug/L | 94 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 45879 | 4.25 | ug/L | 99 |
| 115) n-butylbenzene | 16.20 | 92 | 38112 | 3.95 | ug/L | 97 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 4817 | 3.74 | ug/L | 90 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 33767 | 3.96 | ug/L | 98 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 26843 | 3.67 | ug/L | 99 |
| 119) hexachlorobutadiene | 18.00 | 225 | 14087 | 3.88 | ug/L | 90 |
| 120) naphthalene | 18.17 | 128 | 49198 | 3.63 | ug/L | 96 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 21833 | 3.70 | ug/L | 95 |
| 122) hexachloroethane | 16.58 | 201 | 9628 | 3.13 | ug/L | 94 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220740.D
Acq On : 13 Oct 2022 8:03 pm
Operator : PrashanS
Sample : IC9596-4
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 14 18:46:04 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220741.D
Acq On : 13 Oct 2022 8:32 pm
Operator : PrashanS
Sample : IC9596-8
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 14 08:54:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 354327 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 646048 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 10.43 | 114 | 882011 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 778679 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 396655 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 286810 | 50.36 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.72% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.96 | 65 | 347114 | 50.95 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.90% | | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 984562 | 49.62 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.24% | | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 373649 | 50.14 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.28% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 5.99 | 45 | 53577 | 771.02 | ug/L | | 96 |
| 3) tertiary butyl alcohol | 7.37 | 59 | 34601 | 39.11 | ug/L | | 85 |
| 4) 1,4-dioxane | 11.08 | 88 | 10644 | 191.69 | ug/L | | 89 |
| 6) chlorodifluoromethane | 3.99 | 51 | 74693 | 8.49 | ug/L | | 99 |
| 7) dichlorodifluoromethane | 3.97 | 85 | 57151 | 8.39 | ug/L | | 97 |
| 8) chloromethane | 4.35 | 50 | 81532 | 8.48 | ug/L | | 97 |
| 9) vinyl chloride | 4.57 | 62 | 63963 | 8.23 | ug/L | | 98 |
| 10) 1,3-butadiene | 4.63 | 54 | 48844 | 8.65 | ug/L | | 96 |
| 11) bromomethane | 5.21 | 94 | 37569 | 8.32 | ug/L | | 99 |
| 12) chloroethane | 5.37 | 64 | 34824 | 8.37 | ug/L | | 94 |
| 13) trichlorofluoromethane | 5.79 | 101 | 68700 | 8.02 | ug/L | | 93 |
| 14) ethyl ether | 6.20 | 74 | 22983 | 7.99 | ug/L | | 93 |
| 15) acrolein | 6.42 | 56 | 8872 | 7.44 | ug/L | | 90 |
| 16) freon 113 | 6.62 | 151 | 36977 | 8.21 | ug/L | | 95 |
| 17) 1,1-dichloroethene | 6.61 | 96 | 37596 | 8.38 | ug/L | | 97 |
| 18) acetone | 6.61 | 43 | 109913 | 33.95 | ug/L | | 96 |
| 19) acetonitrile | 7.03 | 41 | 69465 | 84.27 | ug/L | | 97 |
| 20) iodomethane | 6.85 | 142 | 72960 | 8.04 | ug/L | | 97 |
| 21) carbon disulfide | 6.99 | 76 | 131475 | 8.51 | ug/L | | 98 |
| 22) methylene chloride | 7.30 | 84 | 40765 | 7.99 | ug/L | | 96 |
| 23) methyl acetate | 7.07 | 43 | 45614 | 8.51 | ug/L | | 98 |
| 24) methyl tert butyl ether | 7.67 | 73 | 116976 | 8.20 | ug/L | | 98 |
| 25) trans-1,2-dichloroethene | 7.69 | 96 | 40970 | 8.16 | ug/L | | 99 |
| 26) hexane | 8.04 | 57 | 85876 | 8.33 | ug/L | | 97 |
| 27) di-isopropyl ether | 8.25 | 45 | 184569 | 8.48 | ug/L | | 98 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 160208 | 8.31 | ug/L | | 99 |
| 29) 2-butanone | 8.91 | 72 | 23907 | 32.12 | ug/L | # | 78 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 84350 | 8.35 | ug/L | | 94 |
| 31) chloroprene | 8.36 | 53 | 79564 | 8.18 | ug/L | | 97 |
| 32) acrylonitrile | 7.60 | 53 | 19970 | 7.84 | ug/L | | 95 |
| 33) vinyl acetate | 8.20 | 86 | 6652 | 8.35 | ug/L | # | 84 |
| 34) ethyl acetate | 8.92 | 45 | 9134 | 8.50 | ug/L | | 88 |
| 35) 2,2-dichloropropane | 9.00 | 77 | 61232 | 8.40 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220741.D
Acq On : 13 Oct 2022 8:32 pm
Operator : PrashanS
Sample : IC9596-8
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 14 08:54:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 44100 | 7.97 | ug/L | | 99 |
| 37) propionitrile | 8.98 | 54 | 76312 | 82.44 | ug/L | | 84 |
| 38) bromochloromethane | 9.26 | 130 | 29963 | 8.11 | ug/L | | 94 |
| 39) tetrahydrofuran | 9.29 | 42 | 17960 | 8.52 | ug/L | | 98 |
| 40) chloroform | 9.35 | 83 | 77116 | 8.37 | ug/L | | 97 |
| 41) tert-butyl formate | 9.39 | 59 | 30378 | 8.05 | ug/L | | 97 |
| 42) isobutyl alcohol | 9.75 | 43 | 26487 | 72.38 | ug/L | # | 87 |
| 44) methacrylonitrile | 9.18 | 67 | 17979 | 7.81 | ug/L | | 97 |
| 45) 1,1,1-trichloroethane | 9.61 | 97 | 66666 | 8.10 | ug/L | | 99 |
| 46) cyclohexane | 9.72 | 84 | 64688 | 8.26 | ug/L | | 95 |
| 47) 1,1-dichloropropene | 9.77 | 75 | 57737 | 8.15 | ug/L | | 95 |
| 48) tert-amyl alcohol | 9.90 | 73 | 14345 | 41.11 | ug/L | | 94 |
| 49) carbon tetrachloride | 9.80 | 117 | 57582 | 7.82 | ug/L | | 96 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 201958 | 8.49 | ug/L | | 98 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 129502 | 8.39 | ug/L | | 98 |
| 54) n-butyl alcohol | 10.50 | 56 | 80771 | 373.37 | ug/L | | 99 |
| 55) benzene | 10.02 | 78 | 164112 | 8.39 | ug/L | | 97 |
| 56) heptane | 10.28 | 57 | 37170 | 8.17 | ug/L | | 98 |
| 57) isopropyl acetate | 9.94 | 87 | 9772 | 8.34 | ug/L | | 98 |
| 58) 1,2-dichloroethane | 10.05 | 62 | 65079 | 8.18 | ug/L | | 98 |
| 59) trichloroethene | 10.75 | 95 | 45736 | 8.16 | ug/L | | 97 |
| 60) ethyl acrylate | 10.74 | 55 | 70067 | 7.92 | ug/L | | 99 |
| 61) 2-nitropropane | 11.50 | 41 | 11365 | 7.08 | ug/L | | 94 |
| 62) 2-chloroethyl vinyl ether | 11.54 | 63 | 22219 | 13.88 | ug/L | | 98 |
| 63) methyl methacrylate | 11.00 | 100 | 11673 | 8.03 | ug/L | # | 94 |
| 64) 1,2-dichloropropane | 11.04 | 63 | 47382 | 8.10 | ug/L | | 97 |
| 65) methylcyclohexane | 11.04 | 83 | 74880 | 8.34 | ug/L | | 97 |
| 66) dibromomethane | 11.14 | 93 | 25836 | 7.92 | ug/L | | 92 |
| 67) bromodichloromethane | 11.29 | 83 | 56786 | 7.91 | ug/L | | 95 |
| 68) epichlorohydrin | 11.62 | 57 | 26477 | 39.70 | ug/L | | 93 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 69490 | 8.03 | ug/L | | 96 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 84132 | 32.69 | ug/L | | 95 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 24155 | 150.25 | ug/L | | 89 |
| 74) toluene | 12.13 | 92 | 99257 | 8.14 | ug/L | | 98 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 61462 | 7.75 | ug/L | | 97 |
| 76) ethyl methacrylate | 12.32 | 69 | 55176 | 7.83 | ug/L | | 95 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 32084 | 7.92 | ug/L | | 95 |
| 78) 2-hexanone | 12.71 | 58 | 91410 | 32.43 | ug/L | | 89 |
| 79) tetrachloroethene | 12.69 | 166 | 51064 | 8.39 | ug/L | | 96 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 60659 | 8.04 | ug/L | | 96 |
| 81) butyl acetate | 12.79 | 56 | 35790 | 7.92 | ug/L | | 93 |
| 82) dibromochloromethane | 12.96 | 129 | 43823 | 7.48 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 40160 | 7.94 | ug/L | | 98 |
| 84) n-butyl ether | 13.56 | 57 | 212115 | 8.35 | ug/L | | 96 |
| 85) chlorobenzene | 13.59 | 112 | 112421 | 8.22 | ug/L | | 95 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 41855 | 7.89 | ug/L | | 98 |
| 87) ethylbenzene | 13.66 | 91 | 182671 | 8.34 | ug/L | | 99 |
| 88) m,p-xylene | 13.78 | 106 | 142561 | 16.30 | ug/L | | 91 |
| 89) o-xylene | 14.18 | 91 | 145932 | 8.34 | ug/L | | 97 |
| 90) styrene | 14.19 | 104 | 113822 | 7.91 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220741.D
Acq On : 13 Oct 2022 8:32 pm
Operator : PrashanS
Sample : IC9596-8
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 14 08:54:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

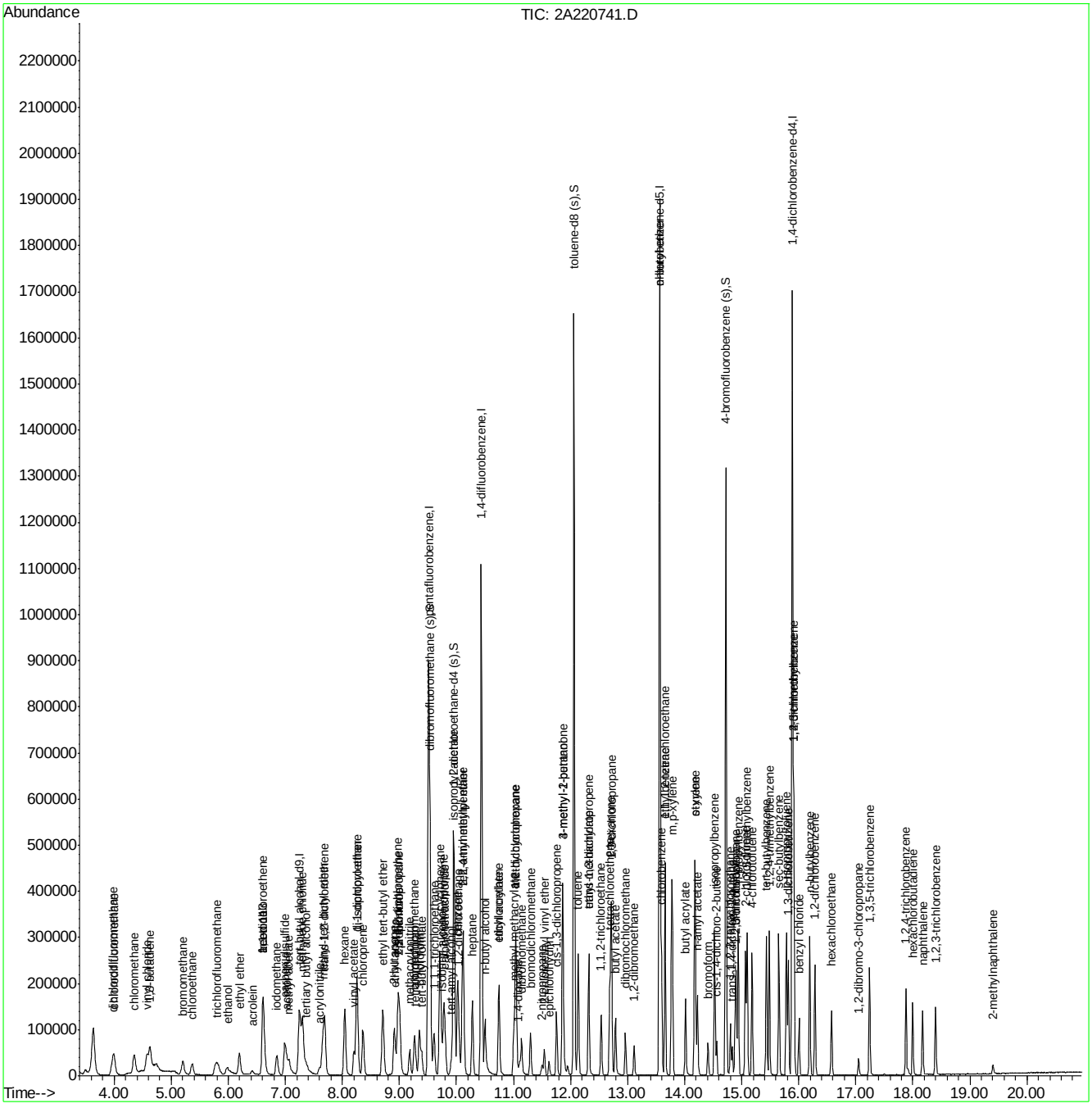
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) n-amyl acetate | 14.22 | 70 | 27773 | 7.60 | ug/L | 93 |
| 92) bromoform | 14.41 | 173 | 30614 | 7.32 | ug/L | 99 |
| 93) butyl acrylate | 14.01 | 55 | 103238 | 7.62 | ug/L | 99 |
| 94) isopropylbenzene | 14.52 | 105 | 176670 | 8.25 | ug/L | 97 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 13751 | 6.50 | ug/L | 98 |
| 98) bromobenzene | 14.90 | 156 | 50871 | 8.15 | ug/L | 99 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 47381 | 8.03 | ug/L | 97 |
| 100) trans-1,4-dichloro-2-buten | 14.84 | 53 | 12573 | 6.69 | ug/L | 94 |
| 101) 1,2,3-trichloropropane | 14.88 | 110 | 12479 | 8.09 | ug/L | 96 |
| 102) n-propylbenzene | 14.94 | 91 | 213118 | 8.58 | ug/L | 96 |
| 103) 2-chlorotoluene | 15.07 | 126 | 45730 | 8.11 | ug/L | 96 |
| 104) 4-chlorotoluene | 15.18 | 91 | 130322 | 8.45 | ug/L | 99 |
| 105) 1,3,5-trimethylbenzene | 15.09 | 105 | 146003 | 8.44 | ug/L | 96 |
| 106) tert-butylbenzene | 15.44 | 119 | 129349 | 8.32 | ug/L | 98 |
| 107) 1,2,4-trimethylbenzene | 15.48 | 105 | 148251 | 8.47 | ug/L | 95 |
| 108) sec-butylbenzene | 15.65 | 105 | 189560 | 8.54 | ug/L | 97 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 93964 | 8.48 | ug/L | 96 |
| 110) p-isopropyltoluene | 15.79 | 119 | 160718 | 8.20 | ug/L | 99 |
| 111) benzyl chloride | 16.01 | 91 | 73532 | 7.14 | ug/L | 95 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 148800 | 8.48 | ug/L | 96 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 92600 | 8.27 | ug/L | 98 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 89329 | 8.24 | ug/L | 98 |
| 115) n-butylbenzene | 16.20 | 92 | 77245 | 7.98 | ug/L | 96 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 9337 | 7.22 | ug/L | 92 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 69139 | 8.07 | ug/L | 95 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 56739 | 7.73 | ug/L | 98 |
| 119) hexachlorobutadiene | 18.00 | 225 | 29112 | 7.98 | ug/L | 97 |
| 120) naphthalene | 18.17 | 128 | 101974 | 7.49 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 44519 | 7.51 | ug/L | 93 |
| 122) hexachloroethane | 16.57 | 201 | 20600 | 6.68 | ug/L | 95 |
| 123) 2-methylnaphthalene | 19.41 | 142 | 11017 | 3.26 | ug/L | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220741.D
Acq On : 13 Oct 2022 8:32 pm
Operator : PrashanS
Sample : IC9596-8
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 14 08:54:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220742.D
Acq On : 13 Oct 2022 9:02 pm
Operator : PrashanS
Sample : IC9596-20
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 14 08:54:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.24 | 65 | 346823 | 500.00 | ug/L | -0.01 |
| 5) pentafluorobenzene | 9.51 | 168 | 651580 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.43 | 114 | 888040 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 779163 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 403372 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 287291 | 50.02 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.04% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 348155 | 50.76 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.52% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 988907 | 49.81 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.62% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 377968 | 49.88 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.76% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.97 | 45 | 129721 | 1907.18 | ug/L | 98 |
| 3) tertiary butyl alcohol | 7.36 | 59 | 82613 | 95.41 | ug/L | 87 |
| 4) 1,4-dioxane | 11.08 | 88 | 25576 | 470.58 | ug/L | 92 |
| 6) chlorodifluoromethane | 3.99 | 51 | 179798 | 20.27 | ug/L | 99 |
| 7) dichlorodifluoromethane | 3.96 | 85 | 135636 | 19.75 | ug/L | 97 |
| 8) chloromethane | 4.35 | 50 | 185984 | 19.18 | ug/L | 98 |
| 9) vinyl chloride | 4.57 | 62 | 153417 | 19.58 | ug/L | 99 |
| 10) 1,3-butadiene | 4.62 | 54 | 118018 | 20.73 | ug/L | 97 |
| 11) bromomethane | 5.19 | 94 | 90530 | 19.88 | ug/L | 95 |
| 12) chloroethane | 5.36 | 64 | 82969 | 19.77 | ug/L | 98 |
| 13) trichlorofluoromethane | 5.78 | 101 | 167852 | 19.43 | ug/L | 95 |
| 14) ethyl ether | 6.19 | 74 | 56519 | 19.49 | ug/L | 99 |
| 15) acrolein | 6.41 | 56 | 23228 | 19.31 | ug/L | 86 |
| 16) freon 113 | 6.62 | 151 | 89656 | 19.74 | ug/L | 98 |
| 17) 1,1-dichloroethene | 6.60 | 96 | 90692 | 20.03 | ug/L | 98 |
| 18) acetone | 6.61 | 43 | 260921 | 79.91 | ug/L | 97 |
| 19) acetonitrile | 7.01 | 41 | 164663 | 198.07 | ug/L | 97 |
| 20) iodomethane | 6.84 | 142 | 182307 | 19.93 | ug/L | 100 |
| 21) carbon disulfide | 6.98 | 76 | 317335 | 20.37 | ug/L | 99 |
| 22) methylene chloride | 7.30 | 84 | 103043 | 20.01 | ug/L | 99 |
| 23) methyl acetate | 7.06 | 43 | 105246 | 19.47 | ug/L | 99 |
| 24) methyl tert butyl ether | 7.66 | 73 | 289213 | 20.09 | ug/L | 97 |
| 25) trans-1,2-dichloroethene | 7.69 | 96 | 102501 | 20.24 | ug/L | 98 |
| 26) hexane | 8.04 | 57 | 204386 | 19.67 | ug/L | 97 |
| 27) di-isopropyl ether | 8.25 | 45 | 452291 | 20.61 | ug/L | 97 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 394584 | 20.30 | ug/L | 99 |
| 29) 2-butanone | 8.91 | 72 | 58378 | 77.76 | ug/L # | 75 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 205435 | 20.17 | ug/L | 97 |
| 31) chloroprene | 8.36 | 53 | 195026 | 19.88 | ug/L | 98 |
| 32) acrylonitrile | 7.59 | 53 | 49487 | 19.26 | ug/L | 96 |
| 33) vinyl acetate | 8.19 | 86 | 16161 | 20.11 | ug/L | 98 |
| 34) ethyl acetate | 8.92 | 45 | 21495 | 19.84 | ug/L | 89 |
| 35) 2,2-dichloropropane | 9.00 | 77 | 149610 | 20.34 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220742.D
Acq On : 13 Oct 2022 9:02 pm
Operator : PrashanS
Sample : IC9596-20
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 14 08:54:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 111102 | 19.90 | ug/L | | 99 |
| 37) propionitrile | 8.98 | 54 | 184983 | 198.13 | ug/L | | 83 |
| 38) bromochloromethane | 9.26 | 130 | 73154 | 19.63 | ug/L | | 94 |
| 39) tetrahydrofuran | 9.28 | 42 | 41445 | 19.50 | ug/L | | 98 |
| 40) chloroform | 9.35 | 83 | 183794 | 19.77 | ug/L | | 97 |
| 41) tert-butyl formate | 9.38 | 59 | 75325 | 19.80 | ug/L | | 97 |
| 42) isobutyl alcohol | 9.75 | 43 | 68714 | 186.18 | ug/L | | 89 |
| 44) methacrylonitrile | 9.18 | 67 | 45519 | 19.61 | ug/L | | 95 |
| 45) 1,1,1-trichloroethane | 9.60 | 97 | 164706 | 19.85 | ug/L | | 99 |
| 46) cyclohexane | 9.72 | 84 | 155175 | 19.66 | ug/L | | 96 |
| 47) 1,1-dichloropropene | 9.77 | 75 | 143139 | 20.03 | ug/L | | 97 |
| 48) tert-amyl alcohol | 9.91 | 73 | 34141 | 97.01 | ug/L | | 92 |
| 49) carbon tetrachloride | 9.80 | 117 | 146253 | 19.70 | ug/L | | 99 |
| 52) 2,2,4-trimethylpentane | 10.11 | 57 | 486246 | 20.30 | ug/L | | 98 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 316611 | 20.38 | ug/L | | 99 |
| 54) n-butyl alcohol | 10.50 | 56 | 207140 | 951.01 | ug/L | | 97 |
| 55) benzene | 10.02 | 78 | 397014 | 20.17 | ug/L | | 98 |
| 56) heptane | 10.28 | 57 | 87786 | 19.17 | ug/L | | 98 |
| 57) isopropyl acetate | 9.94 | 87 | 22930 | 19.44 | ug/L | # | 94 |
| 58) 1,2-dichloroethane | 10.05 | 62 | 159313 | 19.89 | ug/L | | 97 |
| 59) trichloroethene | 10.75 | 95 | 112003 | 19.84 | ug/L | | 96 |
| 60) ethyl acrylate | 10.74 | 55 | 175890 | 19.74 | ug/L | | 99 |
| 61) 2-nitropropane | 11.50 | 41 | 28990 | 17.93 | ug/L | | 94 |
| 62) 2-chloroethyl vinyl ether | 11.53 | 63 | 102762 | 63.77 | ug/L | | 95 |
| 63) methyl methacrylate | 11.00 | 100 | 29755 | 20.34 | ug/L | # | 83 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 117717 | 20.00 | ug/L | | 97 |
| 65) methylcyclohexane | 11.04 | 83 | 181173 | 20.03 | ug/L | | 98 |
| 66) dibromomethane | 11.14 | 93 | 62905 | 19.16 | ug/L | | 94 |
| 67) bromodichloromethane | 11.29 | 83 | 143754 | 19.90 | ug/L | | 99 |
| 68) epichlorohydrin | 11.62 | 57 | 63816 | 95.05 | ug/L | | 98 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 171092 | 19.63 | ug/L | | 99 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 203790 | 78.65 | ug/L | | 93 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 62234 | 384.48 | ug/L | | 99 |
| 74) toluene | 12.13 | 92 | 240635 | 19.72 | ug/L | | 98 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 154202 | 19.43 | ug/L | | 97 |
| 76) ethyl methacrylate | 12.32 | 69 | 139297 | 19.75 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 77959 | 19.24 | ug/L | | 98 |
| 78) 2-hexanone | 12.71 | 58 | 224217 | 79.51 | ug/L | | 95 |
| 79) tetrachloroethene | 12.68 | 166 | 123121 | 20.22 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 148687 | 19.70 | ug/L | | 98 |
| 81) butyl acetate | 12.79 | 56 | 86772 | 19.19 | ug/L | | 95 |
| 82) dibromochloromethane | 12.96 | 129 | 112020 | 19.10 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 98554 | 19.48 | ug/L | | 98 |
| 84) n-butyl ether | 13.56 | 57 | 517508 | 20.35 | ug/L | | 100 |
| 85) chlorobenzene | 13.59 | 112 | 274041 | 20.02 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 104890 | 19.75 | ug/L | | 98 |
| 87) ethylbenzene | 13.66 | 91 | 449625 | 20.51 | ug/L | | 100 |
| 88) m,p-xylene | 13.78 | 106 | 351038 | 40.11 | ug/L | | 95 |
| 89) o-xylene | 14.18 | 91 | 357509 | 20.42 | ug/L | | 98 |
| 90) styrene | 14.19 | 104 | 286629 | 19.91 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220742.D
Acq On : 13 Oct 2022 9:02 pm
Operator : PrashanS
Sample : IC9596-20
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 14 08:54:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

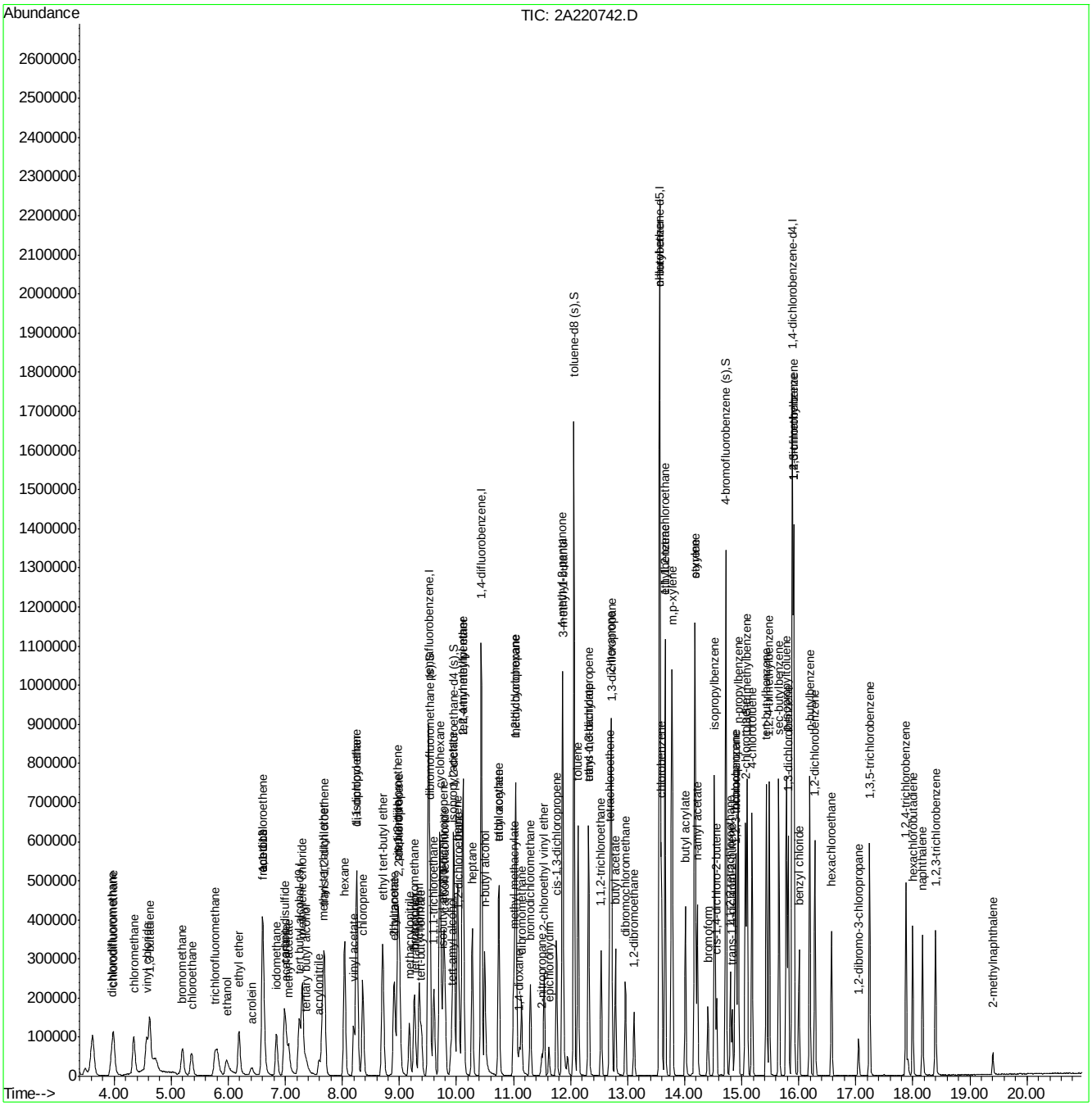
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) n-amyl acetate | 14.22 | 70 | 70207 | 19.21 | ug/L | 90 |
| 92) bromoform | 14.41 | 173 | 77223 | 18.45 | ug/L | 100 |
| 93) butyl acrylate | 14.01 | 55 | 265116 | 19.57 | ug/L | 99 |
| 94) isopropylbenzene | 14.52 | 105 | 439713 | 20.52 | ug/L | 99 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 37497 | 17.72 | ug/L | 95 |
| 98) bromobenzene | 14.90 | 156 | 127249 | 20.04 | ug/L | 98 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 116663 | 19.45 | ug/L | 98 |
| 100) trans-1,4-dichloro-2-buten | 14.83 | 53 | 34081 | 17.84 | ug/L | 91 |
| 101) 1,2,3-trichloropropane | 14.88 | 110 | 30867 | 19.67 | ug/L | 99 |
| 102) n-propylbenzene | 14.94 | 91 | 522191 | 20.68 | ug/L | 99 |
| 103) 2-chlorotoluene | 15.07 | 126 | 114708 | 20.01 | ug/L | 98 |
| 104) 4-chlorotoluene | 15.18 | 91 | 315915 | 20.15 | ug/L | 98 |
| 105) 1,3,5-trimethylbenzene | 15.09 | 105 | 354958 | 20.18 | ug/L | 98 |
| 106) tert-butylbenzene | 15.43 | 119 | 322164 | 20.39 | ug/L | 98 |
| 107) 1,2,4-trimethylbenzene | 15.48 | 105 | 361844 | 20.33 | ug/L | 97 |
| 108) sec-butylbenzene | 15.65 | 105 | 461365 | 20.43 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 229867 | 20.39 | ug/L | 98 |
| 110) p-isopropyltoluene | 15.79 | 119 | 405318 | 20.33 | ug/L | 98 |
| 111) benzyl chloride | 16.01 | 91 | 196181 | 18.74 | ug/L | 98 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 364073 | 20.40 | ug/L | 97 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 228359 | 20.05 | ug/L | 98 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 223766 | 20.29 | ug/L | 98 |
| 115) n-butylbenzene | 16.20 | 92 | 197544 | 20.06 | ug/L | 97 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 25109 | 19.09 | ug/L | 98 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 174648 | 20.03 | ug/L | 99 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 143303 | 19.20 | ug/L | 99 |
| 119) hexachlorobutadiene | 18.00 | 225 | 71345 | 19.22 | ug/L | 96 |
| 120) naphthalene | 18.17 | 128 | 260998 | 18.84 | ug/L | 97 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 115198 | 19.11 | ug/L | 97 |
| 122) hexachloroethane | 16.58 | 201 | 55901 | 17.82 | ug/L | 95 |
| 123) 2-methylnaphthalene | 19.40 | 142 | 27902 | 8.11 | ug/L | 93 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220742.D
Acq On : 13 Oct 2022 9:02 pm
Operator : PrashanS
Sample : IC9596-20
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 14 08:54:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220743.D
Acq On : 13 Oct 2022 9:30 pm
Operator : PrashanS
Sample : ICC9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 08:54:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 355678 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 657167 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.43 | 114 | 902756 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 785268 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 406067 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 289638 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.96 | 65 | 348647 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.00% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1000489 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 381430 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.97 | 45 | 348768 | 5000.00 | ug/L | 100 |
| 3) tertiary butyl alcohol | 7.37 | 59 | 222006 | 250.00 | ug/L | 100 |
| 4) 1,4-dioxane | 11.08 | 88 | 69672 | 1250.00 | ug/L | 100 |
| 6) chlorodifluoromethane | 4.00 | 51 | 447033 | 49.97 | ug/L | 100 |
| 7) dichlorodifluoromethane | 3.96 | 85 | 346330 | 50.00 | ug/L | 100 |
| 8) chloromethane | 4.35 | 50 | 488899 | 50.00 | ug/L | 100 |
| 9) vinyl chloride | 4.57 | 62 | 395178 | 50.00 | ug/L | 100 |
| 10) 1,3-butadiene | 4.63 | 54 | 287048 | 50.00 | ug/L | 100 |
| 11) bromomethane | 5.20 | 94 | 229621 | 50.00 | ug/L | 100 |
| 12) chloroethane | 5.36 | 64 | 211672 | 50.00 | ug/L | 100 |
| 13) trichlorofluoromethane | 5.79 | 101 | 435637 | 50.00 | ug/L | 100 |
| 14) ethyl ether | 6.19 | 74 | 146231 | 50.00 | ug/L | 100 |
| 15) acrolein | 6.41 | 56 | 60647 | 50.00 | ug/L | 100 |
| 16) freon 113 | 6.62 | 151 | 229086 | 50.00 | ug/L | 100 |
| 17) 1,1-dichloroethene | 6.60 | 96 | 228293 | 50.00 | ug/L | 100 |
| 18) acetone | 6.61 | 43 | 658642 | 200.00 | ug/L | 100 |
| 19) acetonitrile | 7.01 | 41 | 419240 | 500.00 | ug/L | 100 |
| 20) iodomethane | 6.85 | 142 | 461373 | 50.00 | ug/L | 100 |
| 21) carbon disulfide | 6.99 | 76 | 786827 | 50.08 | ug/L | 100 |
| 22) methylene chloride | 7.30 | 84 | 259625 | 50.00 | ug/L | 100 |
| 23) methyl acetate | 7.06 | 43 | 272525 | 50.00 | ug/L | 100 |
| 24) methyl tert butyl ether | 7.66 | 73 | 725863 | 50.00 | ug/L | 100 |
| 25) trans-1,2-dichloroethene | 7.69 | 96 | 255412 | 50.00 | ug/L | 100 |
| 26) hexane | 8.04 | 57 | 524067 | 50.00 | ug/L | 100 |
| 27) di-isopropyl ether | 8.25 | 45 | 1106575 | 50.00 | ug/L | 100 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 980123 | 50.00 | ug/L | 100 |
| 29) 2-butanone | 8.90 | 72 | 151436 | 200.00 | ug/L | 100 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 513570 | 50.00 | ug/L | 100 |
| 31) chloroprene | 8.36 | 53 | 494750 | 50.00 | ug/L | 100 |
| 32) acrylonitrile | 7.59 | 53 | 129599 | 50.00 | ug/L | 100 |
| 33) vinyl acetate | 8.20 | 86 | 40527 | 50.00 | ug/L | 100 |
| 34) ethyl acetate | 8.92 | 45 | 54628 | 50.00 | ug/L | 100 |
| 35) 2,2-dichloropropane | 9.00 | 77 | 370967 | 50.00 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220743.D
Acq On : 13 Oct 2022 9:30 pm
Operator : PrashanS
Sample : ICC9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 08:54:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 281573 | 50.00 | ug/L | 100 |
| 37) propionitrile | 8.98 | 54 | 470824 | 500.00 | ug/L | 100 |
| 38) bromochloromethane | 9.26 | 130 | 187898 | 50.00 | ug/L | 100 |
| 39) tetrahydrofuran | 9.28 | 42 | 107164 | 50.00 | ug/L | 100 |
| 40) chloroform | 9.35 | 83 | 468871 | 50.00 | ug/L | 100 |
| 41) tert-butyl formate | 9.38 | 59 | 191855 | 50.00 | ug/L | 100 |
| 42) isobutyl alcohol | 9.75 | 43 | 186123 | 500.00 | ug/L | 100 |
| 44) methacrylonitrile | 9.18 | 67 | 117084 | 50.00 | ug/L | 100 |
| 45) 1,1,1-trichloroethane | 9.61 | 97 | 418444 | 50.00 | ug/L | 100 |
| 46) cyclohexane | 9.72 | 84 | 398074 | 50.00 | ug/L | 100 |
| 47) 1,1-dichloropropene | 9.77 | 75 | 360363 | 50.00 | ug/L | 100 |
| 48) tert-amyl alcohol | 9.90 | 73 | 88740 | 250.00 | ug/L | 100 |
| 49) carbon tetrachloride | 9.80 | 117 | 374475 | 50.00 | ug/L | 100 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 1217620 | 50.00 | ug/L | 100 |
| 53) tert-amyl methyl ether | 10.10 | 73 | 789588 | 50.00 | ug/L | 100 |
| 54) n-butyl alcohol | 10.50 | 56 | 552981 | 2497.43 | ug/L | 100 |
| 55) benzene | 10.02 | 78 | 1000680 | 50.00 | ug/L | 100 |
| 56) heptane | 10.28 | 57 | 232801 | 50.00 | ug/L | 100 |
| 57) isopropyl acetate | 9.94 | 87 | 59946 | 50.00 | ug/L | 100 |
| 58) 1,2-dichloroethane | 10.05 | 62 | 407115 | 50.00 | ug/L | 100 |
| 59) trichloroethene | 10.75 | 95 | 286964 | 50.00 | ug/L | 100 |
| 60) ethyl acrylate | 10.74 | 55 | 452963 | 50.00 | ug/L | 100 |
| 61) 2-nitropropane | 11.50 | 41 | 78644 | 47.84 | ug/L | 100 |
| 62) 2-chloroethyl vinyl ether | 11.53 | 63 | 409541 | 250.00 | ug/L | 100 |
| 63) methyl methacrylate | 11.00 | 100 | 74363 | 50.00 | ug/L | 100 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 299185 | 50.00 | ug/L | 100 |
| 65) methylcyclohexane | 11.04 | 83 | 459696 | 50.00 | ug/L | 100 |
| 66) dibromomethane | 11.14 | 93 | 166886 | 50.00 | ug/L | 100 |
| 67) bromodichloromethane | 11.29 | 83 | 367243 | 50.00 | ug/L | 100 |
| 68) epichlorohydrin | 11.62 | 57 | 170637 | 250.00 | ug/L | 100 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 442964 | 50.00 | ug/L | 100 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 526820 | 200.00 | ug/L | 100 |
| 71) 3-methyl-1-butanol | 11.86 | 70 | 164546 | 1000.00 | ug/L | 100 |
| 74) toluene | 12.13 | 92 | 614937 | 50.00 | ug/L | 100 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 399960 | 50.00 | ug/L | 100 |
| 76) ethyl methacrylate | 12.32 | 69 | 355352 | 50.00 | ug/L | 100 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 204199 | 50.00 | ug/L | 100 |
| 78) 2-hexanone | 12.71 | 58 | 568431 | 200.00 | ug/L | 100 |
| 79) tetrachloroethene | 12.69 | 166 | 306836 | 50.00 | ug/L | 100 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 380305 | 50.00 | ug/L | 100 |
| 81) butyl acetate | 12.79 | 56 | 227915 | 50.00 | ug/L | 100 |
| 82) dibromochloromethane | 12.96 | 129 | 295521 | 50.00 | ug/L | 100 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 254926 | 50.00 | ug/L | 100 |
| 84) n-butyl ether | 13.56 | 57 | 1281555 | 50.00 | ug/L | 100 |
| 85) chlorobenzene | 13.60 | 112 | 689930 | 50.00 | ug/L | 100 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 267638 | 50.00 | ug/L | 100 |
| 87) ethylbenzene | 13.66 | 91 | 1104569 | 50.00 | ug/L | 100 |
| 88) m,p-xylene | 13.78 | 106 | 881963 | 100.00 | ug/L | 100 |
| 89) o-xylene | 14.18 | 91 | 882300 | 50.00 | ug/L | 100 |
| 90) styrene | 14.19 | 104 | 725359 | 50.00 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220743.D
Acq On : 13 Oct 2022 9:30 pm
Operator : PrashanS
Sample : ICC9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 08:54:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

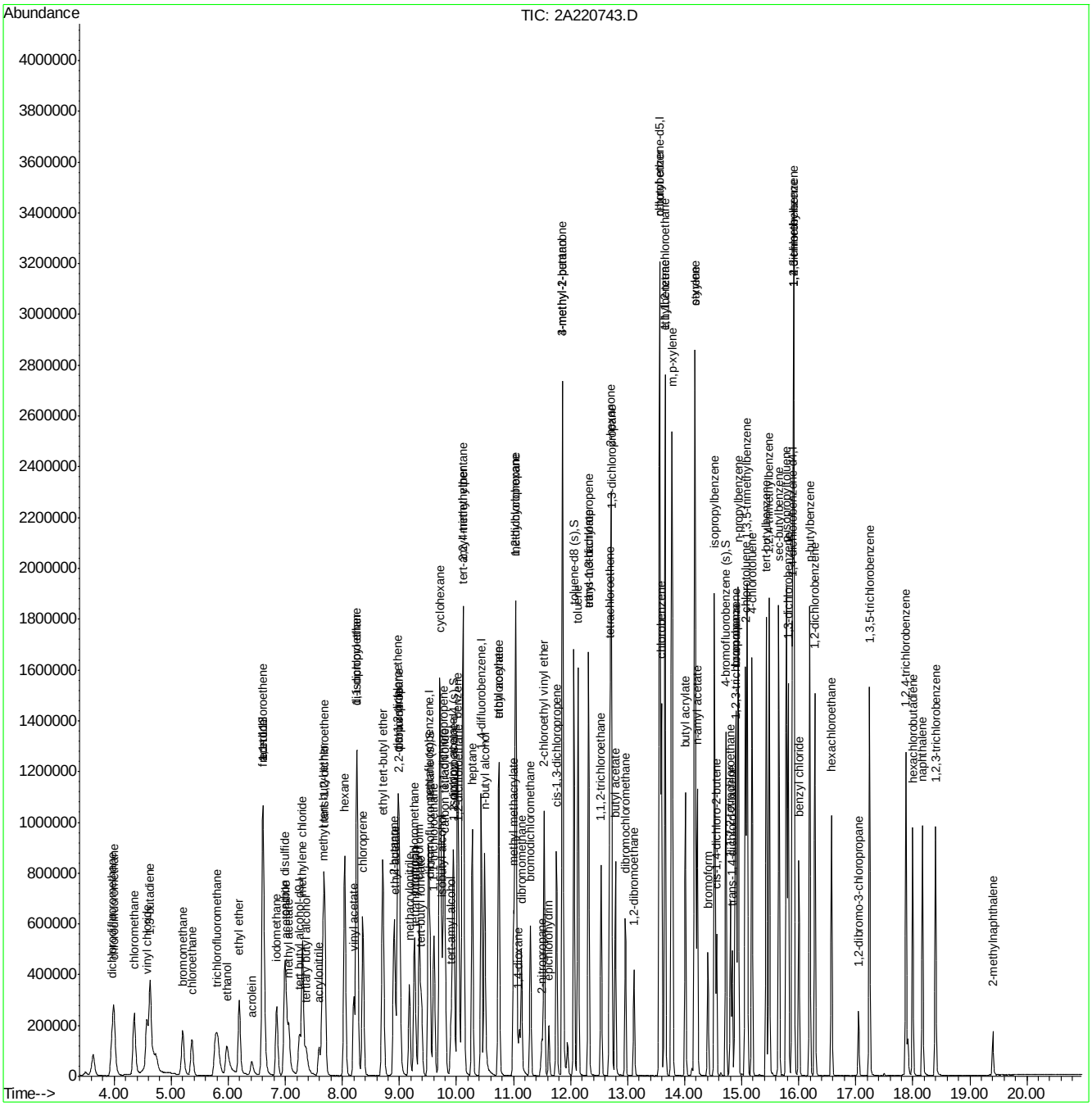
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) n-amyl acetate | 14.22 | 70 | 184146 | 50.00 | ug/L | 100 |
| 92) bromoform | 14.41 | 173 | 210962 | 50.00 | ug/L | 100 |
| 93) butyl acrylate | 14.01 | 55 | 682821 | 50.00 | ug/L | 100 |
| 94) isopropylbenzene | 14.52 | 105 | 1079569 | 50.00 | ug/L | 100 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 106663 | 50.00 | ug/L | 100 |
| 98) bromobenzene | 14.90 | 156 | 319640 | 50.00 | ug/L | 100 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 301947 | 50.00 | ug/L | 100 |
| 100) trans-1,4-dichloro-2-buten | 14.84 | 53 | 96143 | 50.00 | ug/L | 100 |
| 101) 1,2,3-trichloropropane | 14.88 | 110 | 78997 | 50.00 | ug/L | 100 |
| 102) n-propylbenzene | 14.94 | 91 | 1270856 | 50.00 | ug/L | 100 |
| 103) 2-chlorotoluene | 15.07 | 126 | 288100 | 49.92 | ug/L | 100 |
| 104) 4-chlorotoluene | 15.18 | 91 | 789076 | 50.00 | ug/L | 100 |
| 105) 1,3,5-trimethylbenzene | 15.09 | 105 | 885224 | 50.00 | ug/L | 100 |
| 106) tert-butylbenzene | 15.43 | 119 | 795397 | 50.00 | ug/L | 100 |
| 107) 1,2,4-trimethylbenzene | 15.48 | 105 | 895702 | 50.00 | ug/L | 100 |
| 108) sec-butylbenzene | 15.65 | 105 | 1136765 | 50.00 | ug/L | 100 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 567444 | 50.00 | ug/L | 100 |
| 110) p-isopropyltoluene | 15.79 | 119 | 1003295 | 50.00 | ug/L | 100 |
| 111) benzyl chloride | 16.01 | 91 | 526928 | 50.00 | ug/L | 100 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 898097 | 50.00 | ug/L | 100 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 573156 | 50.00 | ug/L | 100 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 555066 | 50.00 | ug/L | 100 |
| 115) n-butylbenzene | 16.20 | 92 | 495662 | 50.00 | ug/L | 100 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 66195 | 50.00 | ug/L | 100 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 438779 | 50.00 | ug/L | 100 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 375703 | 50.00 | ug/L | 100 |
| 119) hexachlorobutadiene | 18.00 | 225 | 186808 | 50.00 | ug/L | 100 |
| 120) naphthalene | 18.17 | 128 | 697154 | 50.00 | ug/L | 100 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 303381 | 50.00 | ug/L | 100 |
| 122) hexachloroethane | 16.57 | 201 | 157897 | 50.00 | ug/L | 100 |
| 123) 2-methylnaphthalene | 19.40 | 142 | 86573 | 25.00 | ug/L | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220743.D
Acq On : 13 Oct 2022 9:30 pm
Operator : PrashanS
Sample : ICC9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 08:54:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220744.D
Acq On : 13 Oct 2022 10:00 pm
Operator : PrashanS
Sample : IC9596-100
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 14 08:54:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.26 | 65 | 350857 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 664172 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.43 | 114 | 903653 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 786281 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 407136 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 293155 | 50.07 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.14% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.96 | 65 | 348012 | 49.86 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.72% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1011110 | 50.47 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.94% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 383097 | 50.09 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.18% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 776904 | 11290.87 | ug/L | 100 |
| 3) tertiary butyl alcohol | 7.37 | 59 | 465789 | 531.73 | ug/L | 92 |
| 4) 1,4-dioxane | 11.08 | 88 | 148175 | 2694.97 | ug/L | 95 |
| 6) chlorodifluoromethane | 4.00 | 51 | 918194 | 101.56 | ug/L | 98 |
| 7) dichlorodifluoromethane | 3.96 | 85 | 732544 | 104.64 | ug/L | 99 |
| 8) chloromethane | 4.35 | 50 | 1014108 | 102.62 | ug/L | 98 |
| 9) vinyl chloride | 4.57 | 62 | 837774 | 104.88 | ug/L | 99 |
| 10) 1,3-butadiene | 4.63 | 54 | 588500 | 101.43 | ug/L | 99 |
| 11) bromomethane | 5.20 | 94 | 492359 | 106.08 | ug/L | 99 |
| 12) chloroethane | 5.36 | 64 | 459176 | 107.32 | ug/L | 98 |
| 13) trichlorofluoromethane | 5.81 | 101 | 926361 | 105.20 | ug/L | 99 |
| 14) ethyl ether | 6.19 | 74 | 307533 | 104.04 | ug/L | 94 |
| 15) acrolein | 6.41 | 56 | 128535 | 104.85 | ug/L | 99 |
| 16) freon 113 | 6.62 | 151 | 478259 | 103.28 | ug/L | 97 |
| 17) 1,1-dichloroethene | 6.60 | 96 | 480566 | 104.14 | ug/L | 99 |
| 18) acetone | 6.61 | 43 | 1337746 | 401.93 | ug/L | 97 |
| 19) acetonitrile | 7.02 | 41 | 874889 | 1032.42 | ug/L | 99 |
| 20) iodomethane | 6.85 | 142 | 974164 | 104.46 | ug/L | 99 |
| 21) carbon disulfide | 6.99 | 76 | 1649556 | 103.88 | ug/L | 99 |
| 22) methylene chloride | 7.30 | 84 | 550052 | 104.81 | ug/L | 98 |
| 23) methyl acetate | 7.06 | 43 | 562756 | 102.16 | ug/L | 98 |
| 24) methyl tert butyl ether | 7.66 | 73 | 1520412 | 103.63 | ug/L | 100 |
| 25) trans-1,2-dichloroethene | 7.69 | 96 | 534588 | 103.55 | ug/L | 97 |
| 26) hexane | 8.04 | 57 | 1106141 | 104.42 | ug/L | 99 |
| 27) di-isopropyl ether | 8.25 | 45 | 2253033 | 100.73 | ug/L | 98 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 1997564 | 100.83 | ug/L | 98 |
| 29) 2-butanone | 8.90 | 72 | 313723 | 409.96 | ug/L # | 86 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 1078284 | 103.87 | ug/L | 100 |
| 31) chloroprene | 8.36 | 53 | 1024107 | 102.41 | ug/L | 98 |
| 32) acrylonitrile | 7.59 | 53 | 274173 | 104.66 | ug/L | 96 |
| 33) vinyl acetate | 8.20 | 86 | 82846 | 101.14 | ug/L # | 84 |
| 34) ethyl acetate | 8.92 | 45 | 113864 | 103.12 | ug/L | 97 |
| 35) 2,2-dichloropropane | 9.00 | 77 | 774110 | 103.24 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220744.D
Acq On : 13 Oct 2022 10:00 pm
Operator : PrashanS
Sample : IC9596-100
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 14 08:54:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 588514 | 103.40 | ug/L | | 98 |
| 37) propionitrile | 8.98 | 54 | 958634 | 1007.30 | ug/L | | 97 |
| 38) bromochloromethane | 9.26 | 130 | 394511 | 103.87 | ug/L | | 99 |
| 39) tetrahydrofuran | 9.28 | 42 | 219890 | 101.51 | ug/L | | 98 |
| 40) chloroform | 9.35 | 83 | 968186 | 102.16 | ug/L | | 98 |
| 41) tert-butyl formate | 9.39 | 59 | 401230 | 103.46 | ug/L | | 97 |
| 42) isobutyl alcohol | 9.75 | 43 | 394264 | 1047.98 | ug/L | | 94 |
| 44) methacrylonitrile | 9.18 | 67 | 247440 | 104.55 | ug/L | | 96 |
| 45) 1,1,1-trichloroethane | 9.61 | 97 | 882330 | 104.32 | ug/L | | 100 |
| 46) cyclohexane | 9.72 | 84 | 853063 | 106.02 | ug/L | | 99 |
| 47) 1,1-dichloropropene | 9.78 | 75 | 749003 | 102.83 | ug/L | | 97 |
| 48) tert-amyl alcohol | 9.91 | 73 | 183070 | 510.31 | ug/L | | 99 |
| 49) carbon tetrachloride | 9.80 | 117 | 794232 | 104.93 | ug/L | | 99 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 2621684 | 107.55 | ug/L | | 99 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 1614283 | 102.12 | ug/L | | 98 |
| 54) n-butyl alcohol | 10.50 | 56 | 1125949 | 5080.09 | ug/L | | 100 |
| 55) benzene | 10.02 | 78 | 2036293 | 101.64 | ug/L | | 98 |
| 56) heptane | 10.28 | 57 | 513981 | 110.28 | ug/L | | 98 |
| 57) isopropyl acetate | 9.94 | 87 | 125464 | 104.54 | ug/L | # | 87 |
| 58) 1,2-dichloroethane | 10.05 | 62 | 832807 | 102.18 | ug/L | | 100 |
| 59) trichloroethene | 10.75 | 95 | 589519 | 102.61 | ug/L | | 100 |
| 60) ethyl acrylate | 10.74 | 55 | 907997 | 100.13 | ug/L | | 99 |
| 61) 2-nitropropane | 11.50 | 41 | 167477 | 101.77 | ug/L | | 98 |
| 62) 2-chloroethyl vinyl ether | 11.54 | 63 | 1120366 | 683.24 | ug/L | | 97 |
| 63) methyl methacrylate | 11.01 | 100 | 156104 | 104.86 | ug/L | | 93 |
| 64) 1,2-dichloropropane | 11.04 | 63 | 616379 | 102.91 | ug/L | | 99 |
| 65) methylcyclohexane | 11.04 | 83 | 999133 | 108.57 | ug/L | | 98 |
| 66) dibromomethane | 11.14 | 93 | 348683 | 104.36 | ug/L | | 99 |
| 67) bromodichloromethane | 11.30 | 83 | 762573 | 103.72 | ug/L | | 100 |
| 68) epichlorohydrin | 11.62 | 57 | 351643 | 514.68 | ug/L | | 99 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 908686 | 102.47 | ug/L | | 99 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 1055120 | 400.16 | ug/L | | 90 |
| 71) 3-methyl-1-butanol | 11.86 | 70 | 339896 | 2063.61 | ug/L | | 94 |
| 74) toluene | 12.13 | 92 | 1255776 | 101.97 | ug/L | | 93 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 822327 | 102.67 | ug/L | | 100 |
| 76) ethyl methacrylate | 12.32 | 69 | 729445 | 102.50 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 414664 | 101.40 | ug/L | | 97 |
| 78) 2-hexanone | 12.71 | 58 | 1135257 | 398.92 | ug/L | | 92 |
| 79) tetrachloroethene | 12.69 | 166 | 634633 | 103.28 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 782543 | 102.75 | ug/L | | 98 |
| 81) butyl acetate | 12.79 | 56 | 471110 | 103.22 | ug/L | | 95 |
| 82) dibromochloromethane | 12.96 | 129 | 622967 | 105.27 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 527441 | 103.32 | ug/L | | 98 |
| 84) n-butyl ether | 13.56 | 57 | 2519200 | 98.16 | ug/L | | 97 |
| 85) chlorobenzene | 13.60 | 112 | 1409437 | 102.01 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 566247 | 105.65 | ug/L | | 99 |
| 87) ethylbenzene | 13.66 | 91 | 2172550 | 98.22 | ug/L | | 95 |
| 88) m,p-xylene | 13.78 | 106 | 1805471 | 204.45 | ug/L | | 93 |
| 89) o-xylene | 14.18 | 91 | 1752030 | 99.16 | ug/L | | 95 |
| 90) styrene | 14.19 | 104 | 1464564 | 100.82 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220744.D
Acq On : 13 Oct 2022 10:00 pm
Operator : PrashanS
Sample : IC9596-100
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 14 08:54:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

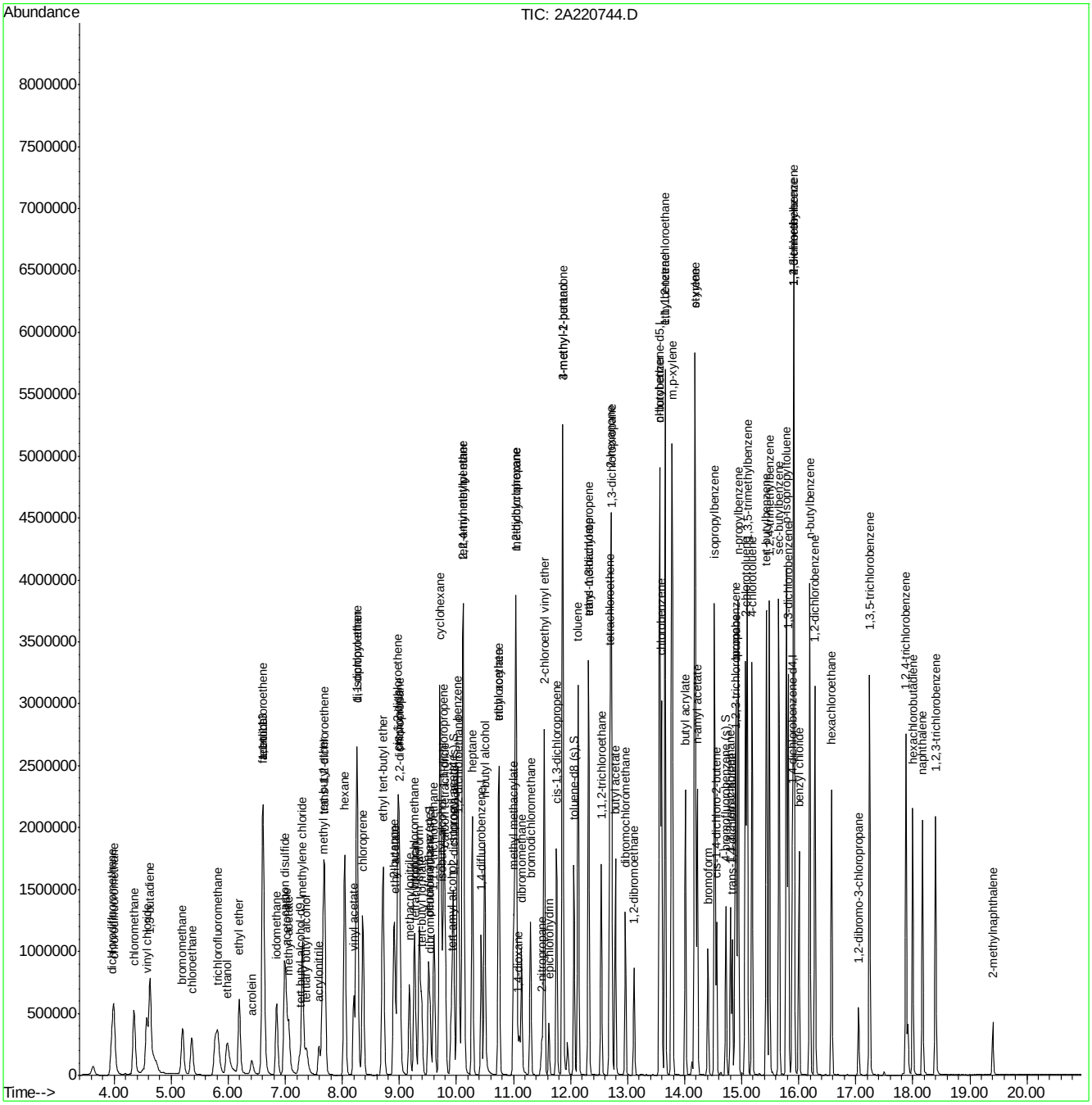
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) n-amyl acetate | 14.22 | 70 | 384080 | 104.15 | ug/L | 94 |
| 92) bromoform | 14.41 | 173 | 446232 | 105.62 | ug/L | 99 |
| 93) butyl acrylate | 14.01 | 55 | 1361166 | 99.54 | ug/L | 95 |
| 94) isopropylbenzene | 14.52 | 105 | 2184847 | 101.06 | ug/L | 97 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 237183 | 111.04 | ug/L | 98 |
| 98) bromobenzene | 14.90 | 156 | 656977 | 102.50 | ug/L | 98 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 612533 | 101.16 | ug/L | 99 |
| 100) trans-1,4-dichloro-2-buten | 14.84 | 53 | 211085 | 109.49 | ug/L | 96 |
| 101) 1,2,3-trichloropropane | 14.88 | 110 | 162375 | 102.50 | ug/L | 96 |
| 102) n-propylbenzene | 14.94 | 91 | 2537246 | 99.56 | ug/L | 97 |
| 103) 2-chlorotoluene | 15.07 | 126 | 605555 | 104.66 | ug/L | 93 |
| 104) 4-chlorotoluene | 15.18 | 91 | 1594464 | 100.77 | ug/L | 98 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 1815376 | 102.27 | ug/L | 98 |
| 106) tert-butylbenzene | 15.44 | 119 | 1673461 | 104.92 | ug/L | 99 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 1822971 | 101.49 | ug/L | 97 |
| 108) sec-butylbenzene | 15.66 | 105 | 2365548 | 103.77 | ug/L | 96 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 1173579 | 103.14 | ug/L | 98 |
| 110) p-isopropyltoluene | 15.79 | 119 | 2087820 | 103.77 | ug/L | 96 |
| 111) benzyl chloride | 16.01 | 91 | 1087237 | 102.90 | ug/L | 99 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 1816841 | 100.88 | ug/L | 98 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 1172979 | 102.06 | ug/L | 99 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 1138720 | 102.31 | ug/L | 98 |
| 115) n-butylbenzene | 16.20 | 92 | 1089989 | 109.66 | ug/L | 93 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 142353 | 107.24 | ug/L | 99 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 952033 | 108.20 | ug/L | 99 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 811077 | 107.66 | ug/L | 96 |
| 119) hexachlorobutadiene | 18.00 | 225 | 417342 | 111.41 | ug/L | 100 |
| 120) naphthalene | 18.17 | 128 | 1460831 | 104.50 | ug/L | 100 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 659397 | 108.39 | ug/L | 99 |
| 122) hexachloroethane | 16.58 | 201 | 371145 | 117.22 | ug/L | 96 |
| 123) 2-methylnaphthalene | 19.40 | 142 | 210040 | 60.49 | ug/L | 95 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220744.D
Acq On : 13 Oct 2022 10:00 pm
Operator : PrashanS
Sample : IC9596-100
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 14 08:54:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220745.D
Acq On : 13 Oct 2022 10:28 pm
Operator : PrashanS
Sample : IC9596-200
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 14 08:54:37 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 352959 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 675260 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.43 | 114 | 915731 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 786812 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 414947 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 295880 | 49.71 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.42% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 353927 | 50.04 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.08% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1025972 | 51.17 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.34% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 391802 | 50.26 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.52% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 1698970 | 24544.37 | ug/L | 100 |
| 3) tertiary butyl alcohol | 7.37 | 59 | 912520 | 1035.50 | ug/L | 96 |
| 4) 1,4-dioxane | 11.08 | 88 | 293333 | 5303.29 | ug/L | 95 |
| 6) chlorodifluoromethane | 3.98 | 51 | 1707913 | 185.80 | ug/L | 97 |
| 7) dichlorodifluoromethane | 3.95 | 85 | 1384179 | 194.48 | ug/L | 99 |
| 8) chloromethane | 4.34 | 50 | 1883959 | 187.51 | ug/L | 96 |
| 9) vinyl chloride | 4.56 | 62 | 1575373 | 193.98 | ug/L | 100 |
| 10) 1,3-butadiene | 4.62 | 54 | 1083734 | 183.71 | ug/L | 100 |
| 11) bromomethane | 5.19 | 94 | 933173 | 197.75 | ug/L | 99 |
| 12) chloroethane | 5.35 | 64 | 872648 | 200.61 | ug/L | 98 |
| 13) trichlorofluoromethane | 5.79 | 101 | 1769083 | 197.61 | ug/L | 97 |
| 14) ethyl ether | 6.19 | 74 | 587671 | 195.56 | ug/L | 94 |
| 15) acrolein | 6.40 | 56 | 249071 | 199.84 | ug/L | 98 |
| 16) freon 113 | 6.61 | 151 | 916636 | 194.70 | ug/L | 99 |
| 17) 1,1-dichloroethene | 6.60 | 96 | 905654 | 193.04 | ug/L | 96 |
| 18) acetone | 6.60 | 43 | 2339722 | 691.43 | ug/L | 96 |
| 19) acetonitrile | 7.01 | 41 | 1665001 | 1932.53 | ug/L | 99 |
| 20) iodomethane | 6.84 | 142 | 1827426 | 192.74 | ug/L | 99 |
| 21) carbon disulfide | 6.98 | 76 | 3001183 | 185.90 | ug/L | 98 |
| 22) methylene chloride | 7.30 | 84 | 1037520 | 194.46 | ug/L | 95 |
| 23) methyl acetate | 7.06 | 43 | 1084139 | 193.58 | ug/L | 96 |
| 24) methyl tert butyl ether | 7.65 | 73 | 2816163 | 188.79 | ug/L | 100 |
| 25) trans-1,2-dichloroethene | 7.68 | 96 | 1018644 | 194.07 | ug/L | 95 |
| 26) hexane | 8.04 | 57 | 1987795 | 184.57 | ug/L | 99 |
| 27) di-isopropyl ether | 8.25 | 45 | 4037200 | 177.53 | ug/L | 97 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 3619844 | 179.71 | ug/L | 96 |
| 29) 2-butanone | 8.90 | 72 | 594410 | 764.00 | ug/L # | 80 |
| 30) 1,1-dichloroethane | 8.25 | 63 | 1986071 | 188.18 | ug/L | 98 |
| 31) chloroprene | 8.35 | 53 | 1901326 | 187.00 | ug/L | 96 |
| 32) acrylonitrile | 7.59 | 53 | 531067 | 199.40 | ug/L | 97 |
| 33) vinyl acetate | 8.19 | 86 | 161228 | 193.59 | ug/L # | 74 |
| 34) ethyl acetate | 8.92 | 45 | 218587 | 194.71 | ug/L | 94 |
| 35) 2,2-dichloropropane | 9.00 | 77 | 1432995 | 187.97 | ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220745.D
Acq On : 13 Oct 2022 10:28 pm
Operator : PrashanS
Sample : IC9596-200
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 14 08:54:37 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 1115141 | 192.71 | ug/L | | 97 |
| 37) propionitrile | 8.98 | 54 | 1788583 | 1848.52 | ug/L | | 94 |
| 38) bromochloromethane | 9.26 | 130 | 750575 | 194.38 | ug/L | | 96 |
| 39) tetrahydrofuran | 9.28 | 42 | 421247 | 191.28 | ug/L | | 99 |
| 40) chloroform | 9.35 | 83 | 1796262 | 186.42 | ug/L | | 97 |
| 41) tert-butyl formate | 9.38 | 59 | 781168 | 198.13 | ug/L | | 95 |
| 42) isobutyl alcohol | 9.75 | 43 | 734272 | 1919.69 | ug/L | | 95 |
| 44) methacrylonitrile | 9.18 | 67 | 475808 | 197.75 | ug/L | | 95 |
| 45) 1,1,1-trichloroethane | 9.61 | 97 | 1642228 | 190.97 | ug/L | | 98 |
| 46) cyclohexane | 9.72 | 84 | 1614732 | 197.38 | ug/L | | 90 |
| 47) 1,1-dichloropropene | 9.77 | 75 | 1407461 | 190.05 | ug/L | | 95 |
| 48) tert-amyl alcohol | 9.91 | 73 | 364853 | 1000.33 | ug/L | | 97 |
| 49) carbon tetrachloride | 9.80 | 117 | 1493151 | 194.02 | ug/L | | 97 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 4396366 | 177.97 | ug/L | | 97 |
| 53) tert-amyl methyl ether | 10.10 | 73 | 2932956 | 183.10 | ug/L | | 98 |
| 54) n-butyl alcohol | 10.50 | 56 | 2147958 | 9563.40 | ug/L | | 97 |
| 55) benzene | 10.02 | 78 | 3676870 | 181.12 | ug/L | | 96 |
| 56) heptane | 10.28 | 57 | 889909 | 188.42 | ug/L | | 99 |
| 57) isopropyl acetate | 9.94 | 87 | 247983 | 203.91 | ug/L | # | 76 |
| 58) 1,2-dichloroethane | 10.05 | 62 | 1556075 | 188.40 | ug/L | | 97 |
| 59) trichloroethene | 10.74 | 95 | 1115259 | 191.57 | ug/L | | 98 |
| 60) ethyl acrylate | 10.73 | 55 | 1695048 | 184.46 | ug/L | | 98 |
| 61) 2-nitropropane | 11.50 | 41 | 330862 | 198.41 | ug/L | | 96 |
| 62) 2-chloroethyl vinyl ether | 11.53 | 63 | 2323351 | 1398.17 | ug/L | | 94 |
| 63) methyl methacrylate | 11.00 | 100 | 303082 | 200.90 | ug/L | # | 88 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 1159125 | 190.97 | ug/L | | 97 |
| 65) methylcyclohexane | 11.04 | 83 | 1795504 | 192.53 | ug/L | | 96 |
| 66) dibromomethane | 11.14 | 93 | 665254 | 196.49 | ug/L | | 99 |
| 67) bromodichloromethane | 11.29 | 83 | 1422658 | 190.95 | ug/L | | 96 |
| 68) epichlorohydrin | 11.62 | 57 | 676410 | 976.97 | ug/L | | 98 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 1694443 | 188.55 | ug/L | | 99 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 1946621 | 728.54 | ug/L | # | 74 |
| 71) 3-methyl-1-butanol | 11.86 | 70 | 658137 | 3943.04 | ug/L | | 87 |
| 74) toluene | 12.13 | 92 | 2313197 | 187.71 | ug/L | # | 86 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 1525568 | 190.34 | ug/L | | 97 |
| 76) ethyl methacrylate | 12.32 | 69 | 1360231 | 191.02 | ug/L | | 98 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 781824 | 191.06 | ug/L | | 99 |
| 78) 2-hexanone | 12.71 | 58 | 2036472 | 715.12 | ug/L | # | 83 |
| 79) tetrachloroethene | 12.69 | 166 | 1177318 | 191.47 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 1456871 | 191.16 | ug/L | | 96 |
| 81) butyl acetate | 12.79 | 56 | 897509 | 196.51 | ug/L | | 86 |
| 82) dibromochloromethane | 12.96 | 129 | 1178178 | 198.95 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 991122 | 194.01 | ug/L | | 98 |
| 84) n-butyl ether | 13.56 | 57 | 4259484 | 165.86 | ug/L | | 91 |
| 85) chlorobenzene | 13.60 | 112 | 2524343 | 182.58 | ug/L | | 94 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 1042938 | 194.46 | ug/L | | 96 |
| 87) ethylbenzene | 13.66 | 91 | 3675438 | 166.05 | ug/L | | 89 |
| 88) m,p-xylene | 13.78 | 106 | 3265026 | 369.47 | ug/L | | 83 |
| 89) o-xylene | 14.18 | 91 | 3047807 | 172.38 | ug/L | | 91 |
| 90) styrene | 14.19 | 104 | 2589311 | 178.13 | ug/L | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220745.D
Acq On : 13 Oct 2022 10:28 pm
Operator : PrashanS
Sample : IC9596-200
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 14 08:54:37 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

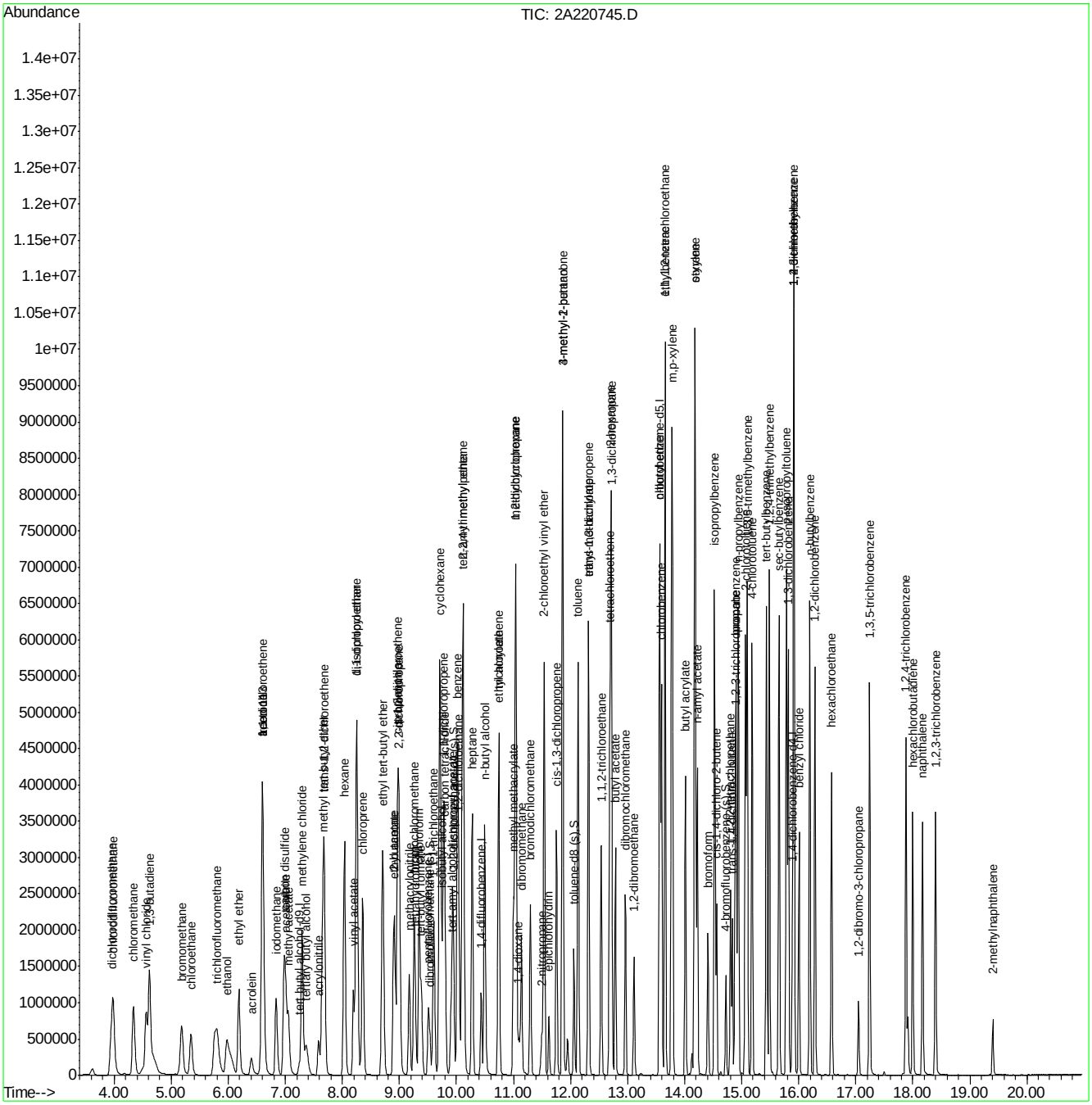
| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 91) n-amyl acetate | 14.22 | 70 | 744115 | 201.65 ug/L # | 82 |
| 92) bromoform | 14.41 | 173 | 855307 | 202.32 ug/L | 99 |
| 93) butyl acrylate | 14.01 | 55 | 2435538 | 177.99 ug/L | 89 |
| 94) isopropylbenzene | 14.52 | 105 | 3710505 | 171.51 ug/L | 91 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 463202 | 216.71 ug/L | 98 |
| 98) bromobenzene | 14.90 | 156 | 1212296 | 185.58 ug/L | 98 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 1137167 | 184.28 ug/L | 97 |
| 100) trans-1,4-dichloro-2-buten | 14.84 | 53 | 406175 | 206.71 ug/L | 96 |
| 101) 1,2,3-trichloropropane | 14.88 | 110 | 314923 | 195.06 ug/L | 98 |
| 102) n-propylbenzene | 14.94 | 91 | 4186222 | 161.18 ug/L | 89 |
| 103) 2-chlorotoluene | 15.07 | 126 | 1113698 | 188.86 ug/L # | 85 |
| 104) 4-chlorotoluene | 15.18 | 91 | 2801962 | 173.75 ug/L | 94 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 3084447 | 170.49 ug/L | 92 |
| 106) tert-butylbenzene | 15.44 | 119 | 2859966 | 175.93 ug/L | 96 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 3116021 | 170.22 ug/L | 91 |
| 108) sec-butylbenzene | 15.66 | 105 | 3848194 | 165.64 ug/L | 91 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 2076972 | 179.09 ug/L | 94 |
| 110) p-isopropyltoluene | 15.79 | 119 | 3426395 | 167.10 ug/L | 90 |
| 111) benzyl chloride | 16.01 | 91 | 1987667 | 184.57 ug/L | 96 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 3043288 | 165.80 ug/L | 92 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 2041631 | 174.29 ug/L | 96 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 2007171 | 176.94 ug/L | 94 |
| 115) n-butylbenzene | 16.20 | 92 | 1827566 | 180.41 ug/L | 87 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 267041 | 197.39 ug/L | 99 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 1574841 | 175.62 ug/L | 98 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 1356429 | 176.66 ug/L | 97 |
| 119) hexachlorobutadiene | 18.00 | 225 | 690185 | 180.78 ug/L | 99 |
| 120) naphthalene | 18.17 | 128 | 2492725 | 174.95 ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 1105382 | 178.28 ug/L | 99 |
| 122) hexachloroethane | 16.57 | 201 | 674608 | 209.05 ug/L | 98 |
| 123) 2-methylnaphthalene | 19.40 | 142 | 389985 | 110.21 ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220745.D
Acq On : 13 Oct 2022 10:28 pm
Operator : PrashanS
Sample : IC9596-200
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 14 08:54:37 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220748.D
Acq On : 13 Oct 2022 11:54 pm
Operator : PrashanS
Sample : ICV9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 14 18:46:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.24 | 65 | 369812 | 500.00 | ug/L | -0.01 |
| 5) pentafluorobenzene | 9.51 | 168 | 693907 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.43 | 114 | 940173 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 821608 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 428192 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 303264 | 49.56 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.12% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 366109 | 49.49 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.98% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1048982 | 50.18 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.36% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 400404 | 49.46 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.92% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.97 | 45 | 366441 | 4919.71 | ug/L | 96 |
| 3) tertiary butyl alcohol | 7.36 | 59 | 238222 | 251.61 | ug/L | 90 |
| 4) 1,4-dioxane | 11.08 | 88 | 73032 | 1318.69 | ug/L | 92 |
| 7) dichlorodifluoromethane | 3.95 | 85 | 363599 | 49.68 | ug/L | 99 |
| 8) chloromethane | 4.34 | 50 | 459118 | 42.11 | ug/L | 99 |
| 9) vinyl chloride | 4.56 | 62 | 406804 | 48.78 | ug/L | 98 |
| 10) 1,3-butadiene | 4.62 | 54 | 477174 | 75.24 | ug/L | 97 |
| 11) bromomethane | 5.19 | 94 | 247158 | 48.44 | ug/L | 100 |
| 12) chloroethane | 5.35 | 64 | 228201 | 51.11 | ug/L | 100 |
| 13) trichlorofluoromethane | 5.78 | 101 | 451462 | 50.28 | ug/L | 98 |
| 14) ethyl ether | 6.19 | 74 | 164117 | 52.63 | ug/L | 89 |
| 15) acrolein | 6.41 | 56 | 61942 | 46.08 | ug/L | 97 |
| 16) freon 113 | 6.61 | 151 | 237422 | 48.57 | ug/L | 96 |
| 17) 1,1-dichloroethene | 6.60 | 96 | 253842 | 49.74 | ug/L | 98 |
| 18) acetone | 6.60 | 43 | 571171 | 152.86 | ug/L | 99 |
| 20) iodomethane | 6.84 | 142 | 502572 | 51.65 | ug/L | 99 |
| 21) carbon disulfide | 6.98 | 76 | 902402 | 51.25 | ug/L | 100 |
| 22) methylene chloride | 7.30 | 84 | 287149 | 50.49 | ug/L | 98 |
| 23) methyl acetate | 7.06 | 43 | 327572 | 53.22 | ug/L | 96 |
| 24) methyl tert butyl ether | 7.65 | 73 | 814742 | 50.70 | ug/L | 99 |
| 25) trans-1,2-dichloroethene | 7.68 | 96 | 281405 | 48.92 | ug/L | 99 |
| 26) hexane | 8.04 | 57 | 525349 | 45.96 | ug/L | 99 |
| 27) di-isopropyl ether | 8.25 | 45 | 1186631 | 47.81 | ug/L | 99 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 1044759 | 48.69 | ug/L | 100 |
| 29) 2-butanone | 8.90 | 72 | 150131 | 188.19 | ug/L | 99 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 560419 | 50.47 | ug/L | 100 |
| 31) chloroprene | 8.36 | 53 | 566044 | 53.63 | ug/L | 98 |
| 33) vinyl acetate | 8.19 | 86 | 29260 | 34.82 | ug/L # | 94 |
| 34) ethyl acetate | 8.92 | 45 | 58923 | 49.16 | ug/L | 96 |
| 35) 2,2-dichloropropane | 9.00 | 77 | 381368 | 45.61 | ug/L | 99 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 304351 | 49.16 | ug/L | 99 |
| 37) propionitrile | 8.98 | 54 | 462999 | 465.64 | ug/L | 93 |
| 38) bromochloromethane | 9.26 | 130 | 205519 | 52.01 | ug/L | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220748.D
Acq On : 13 Oct 2022 11:54 pm
Operator : PrashanS
Sample : ICV9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 14 18:46:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 39) tetrahydrofuran | 9.28 | 42 | 115256 | 49.28 | ug/L | | 98 |
| 40) chloroform | 9.35 | 83 | 535983 | 50.79 | ug/L | | 97 |
| 41) tert-butyl formate | 9.38 | 59 | 106290 | 25.35 | ug/L | | 99 |
| 42) isobutyl alcohol | 9.74 | 43 | 184173 | 492.97 | ug/L | | 92 |
| 44) methacrylonitrile | 9.17 | 67 | 128585 | 52.50 | ug/L | | 94 |
| 45) 1,1,1-trichloroethane | 9.60 | 97 | 461517 | 51.19 | ug/L | | 98 |
| 46) cyclohexane | 9.71 | 84 | 433866 | 50.27 | ug/L | | 96 |
| 47) 1,1-dichloropropene | 9.77 | 75 | 394583 | 51.41 | ug/L | | 98 |
| 48) tert-amyl alcohol | 9.90 | 73 | 92471 | 234.69 | ug/L | | 92 |
| 49) carbon tetrachloride | 9.80 | 117 | 414725 | 52.98 | ug/L | | 99 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 1256769 | 47.94 | ug/L | | 99 |
| 53) tert-amyl methyl ether | 10.10 | 73 | 828943 | 47.86 | ug/L | | 99 |
| 54) n-butyl alcohol | 10.49 | 56 | 565608 | 2532.93 | ug/L | | 98 |
| 55) benzene | 10.02 | 78 | 1092064 | 51.10 | ug/L | | 100 |
| 56) heptane | 10.28 | 57 | 272587 | 53.94 | ug/L | | 98 |
| 57) isopropyl acetate | 9.94 | 87 | 65963 | 53.25 | ug/L | | 95 |
| 58) 1,2-dichloroethane | 10.04 | 62 | 442286 | 48.71 | ug/L | | 100 |
| 59) trichloroethene | 10.74 | 95 | 321667 | 54.03 | ug/L | | 98 |
| 60) ethyl acrylate | 10.73 | 55 | 457147 | 47.87 | ug/L | | 100 |
| 61) 2-nitropropane | 11.50 | 41 | 85805 | 53.55 | ug/L | | 95 |
| 62) 2-chloroethyl vinyl ether | 11.53 | 63 | 447556 | 358.25 | ug/L | | 99 |
| 63) methyl methacrylate | 11.00 | 100 | 84599 | 55.09 | ug/L | # | 68 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 324121 | 51.44 | ug/L | | 99 |
| 65) methylcyclohexane | 11.04 | 83 | 508216 | 51.43 | ug/L | | 99 |
| 66) dibromomethane | 11.14 | 93 | 180115 | 52.55 | ug/L | | 98 |
| 67) bromodichloromethane | 11.29 | 83 | 401420 | 51.69 | ug/L | | 99 |
| 68) epichlorohydrin | 11.62 | 57 | 169746 | 240.15 | ug/L | | 99 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 468358 | 50.74 | ug/L | | 99 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 561202 | 208.87 | ug/L | | 99 |
| 71) 3-methyl-1-butanol | 11.86 | 70 | 172605 | 1061.94 | ug/L | | 98 |
| 74) toluene | 12.13 | 92 | 662446 | 51.03 | ug/L | | 99 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 429282 | 52.63 | ug/L | | 98 |
| 76) ethyl methacrylate | 12.32 | 69 | 365065 | 51.40 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 218562 | 52.32 | ug/L | | 98 |
| 78) 2-hexanone | 12.70 | 58 | 565706 | 193.90 | ug/L | | 100 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 415139 | 52.54 | ug/L | | 98 |
| 81) butyl acetate | 12.79 | 56 | 245119 | 52.27 | ug/L | | 99 |
| 82) dibromochloromethane | 12.96 | 129 | 324893 | 53.76 | ug/L | | 97 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 279601 | 52.80 | ug/L | | 100 |
| 84) n-butyl ether | 13.56 | 57 | 1327410 | 48.94 | ug/L | | 100 |
| 85) chlorobenzene | 13.59 | 112 | 755546 | 52.15 | ug/L | | 99 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 292537 | 53.03 | ug/L | | 98 |
| 87) ethylbenzene | 13.66 | 91 | 1202070 | 50.53 | ug/L | | 99 |
| 88) m,p-xylene | 13.78 | 106 | 972871 | 105.03 | ug/L | | 96 |
| 89) o-xylene | 14.18 | 91 | 955114 | 50.85 | ug/L | | 100 |
| 90) styrene | 14.19 | 104 | 787031 | 54.07 | ug/L | | 100 |
| 91) n-amyl acetate | 14.22 | 70 | 195898 | 53.55 | ug/L | | 95 |
| 92) bromoform | 14.41 | 173 | 228785 | 55.69 | ug/L | | 98 |
| 93) butyl acrylate | 14.01 | 55 | 705087 | 52.65 | ug/L | | 99 |
| 94) isopropylbenzene | 14.52 | 105 | 1170881 | 50.18 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220748.D
Acq On : 13 Oct 2022 11:54 pm
Operator : PrashanS
Sample : ICV9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 14 18:46:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

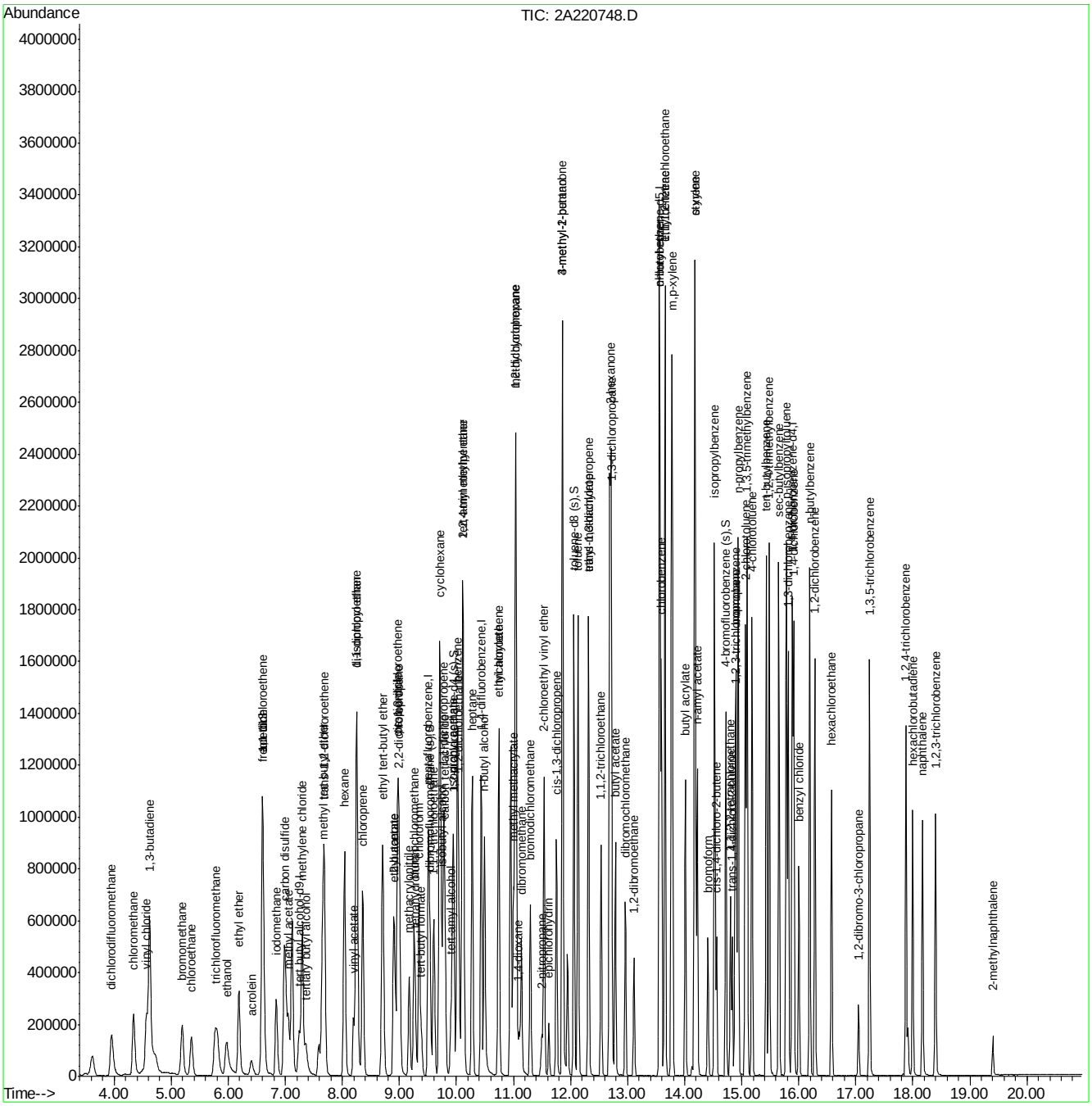
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 104124 | 49.71 | ug/L | 98 |
| 98) bromobenzene | 14.90 | 156 | 347580 | 50.20 | ug/L | 99 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 309798 | 48.12 | ug/L | 99 |
| 100) trans-1,4-dichloro-2-buten | 14.84 | 53 | 104955 | 56.79 | ug/L | 97 |
| 101) 1,2,3-trichloropropane | 14.88 | 110 | 87149 | 52.26 | ug/L | 99 |
| 102) n-propylbenzene | 14.94 | 91 | 1375289 | 49.62 | ug/L | 99 |
| 103) 2-chlorotoluene | 15.07 | 126 | 317899 | 51.82 | ug/L | 96 |
| 104) 4-chlorotoluene | 15.18 | 91 | 860331 | 49.81 | ug/L | 99 |
| 105) 1,3,5-trimethylbenzene | 15.09 | 105 | 956487 | 50.10 | ug/L | 98 |
| 106) tert-butylbenzene | 15.43 | 119 | 862045 | 50.60 | ug/L | 100 |
| 107) 1,2,4-trimethylbenzene | 15.48 | 105 | 967301 | 50.62 | ug/L | 99 |
| 108) sec-butylbenzene | 15.65 | 105 | 1225575 | 49.72 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 617830 | 49.64 | ug/L | 100 |
| 110) p-isopropyltoluene | 15.78 | 119 | 1080357 | 51.56 | ug/L | 98 |
| 111) benzyl chloride | 16.01 | 91 | 497101 | 49.55 | ug/L | 98 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 628301 | 50.25 | ug/L | 99 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 597742 | 50.16 | ug/L | 99 |
| 115) n-butylbenzene | 16.20 | 92 | 531648 | 51.79 | ug/L | 100 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 71654 | 54.03 | ug/L | 100 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 467050 | 51.46 | ug/L | 100 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 392872 | 53.66 | ug/L | 100 |
| 119) hexachlorobutadiene | 18.00 | 225 | 194688 | 49.83 | ug/L | 99 |
| 120) naphthalene | 18.17 | 128 | 717383 | 53.07 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 314127 | 53.20 | ug/L | 97 |
| 122) hexachloroethane | 16.57 | 201 | 172567 | 56.81 | ug/L | 99 |
| 123) 2-methylnaphthalene | 19.40 | 142 | 77521 | 21.50 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220748.D
Acq On : 13 Oct 2022 11:54 pm
Operator : PrashanS
Sample : ICV9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 14 18:46:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220749.D
Acq On : 14 Oct 2022 12:22 am
Operator : PrashanS
Sample : ICV9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 14 18:47:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

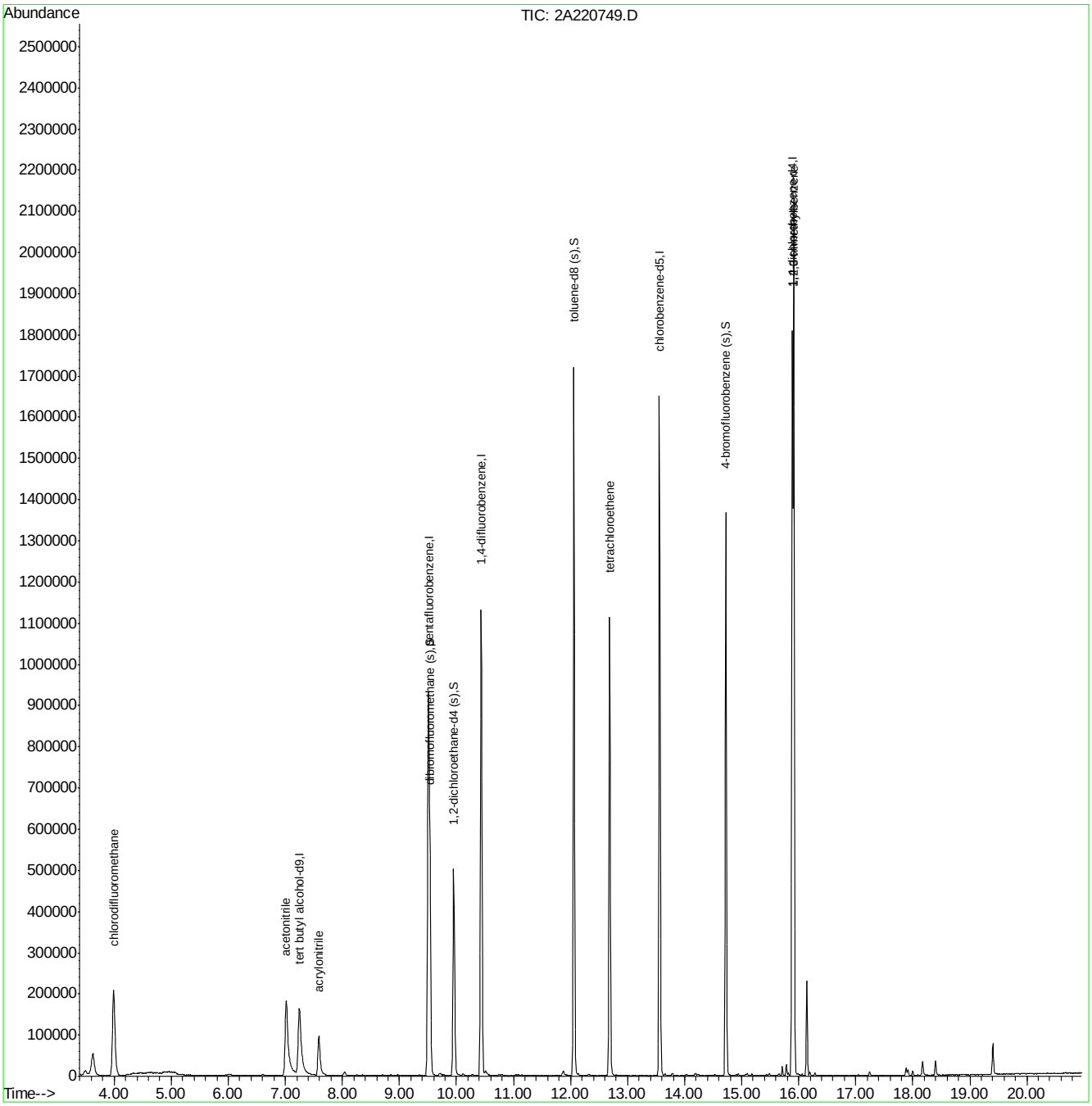
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 359110 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 680609 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.43 | 114 | 919619 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 818949 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 415765 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 298177 | 49.68 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.36% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 367046 | 50.72 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.44% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1025873 | 49.24 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.48% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 398267 | 50.67 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.34% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 6) chlorodifluoromethane | 3.99 | 51 | 468309 | 49.55 | ug/L | 100 |
| 19) acetonitrile | 7.01 | 41 | 399593 | 436.20 | ug/L | 98 |
| 32) acrylonitrile | 7.59 | 53 | 109016 | 41.96 | ug/L | 95 |
| 79) tetrachloroethene | 12.68 | 166 | 303799 | 44.74 | ug/L | 98 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 985335 | 52.09 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220749.D
Acq On : 14 Oct 2022 12:22 am
Operator : PrashanS
Sample : ICV9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 14 18:47:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221287.d
Acq On : 27 Oct 2022 10:49 pm
Operator : nickw
Sample : cc9596-50 Inst : GCMS2A
Misc : MS63376,V2A9619,5,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:37:22 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.246 | 65 | 323515 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.506 | 168 | 662808 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.434 | 114 | 900072 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.558 | 117 | 731213 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 377292 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 289453 | 49.52 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.04% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.951 | 65 | 312097 | 44.07 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 88.14% | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 926332 | 49.80 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.60% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 335954 | 47.10 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.20% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 5.966 | 45 | 295151 | 4529.66 | ug/L | 99 |
| 3) tertiary butyl alcohol | 7.361 | 59 | 187216 | 226.04 | ug/L | 92 |
| 4) 1,4-dioxane | 11.078 | 88 | 63659 | 1313.94 | ug/L | 89 |
| 6) chlorodifluoromethane | 3.985 | 51 | 336539 | 36.56 | ug/L | 96 |
| 7) dichlorodifluoromethane | 3.964 | 85 | 326945 | 46.76 | ug/L | 97 |
| 8) chloromethane | 4.346 | 50 | 264542 | 25.40 | ug/L | 97 |
| 9) vinyl chloride | 4.572 | 62 | 228612 | 28.70 | ug/L | 94 |
| 10) 1,3-butadiene | 4.619 | 54 | 144629 | 23.88 | ug/L | 94 |
| 11) bromomethane | 5.191 | 94 | 205064 | 42.08 | ug/L | 99 |
| 12) chloroethane | 5.358 | 64 | 181077 | 42.45 | ug/L | 97 |
| 13) trichlorofluoromethane | 5.783 | 101 | 394567 | 46.00 | ug/L | 100 |
| 14) ethyl ether | 6.187 | 74 | 132088 | 44.34 | ug/L | 96 |
| 15) acrolein | 6.407 | 56 | 53749 | 41.86 | ug/L | 93 |
| 16) freon 113 | 6.611 | 151 | 204805 | 43.86 | ug/L | 94 |
| 17) 1,1-dichloroethene | 6.601 | 96 | 203948 | 41.84 | ug/L | 91 |
| 18) acetone | 6.601 | 43 | 365595 | 102.43 | ug/L | 89 |
| 19) acetonitrile | 7.010 | 41 | 384072 | 430.52 | ug/L | 96 |
| 20) iodomethane | 6.842 | 142 | 441686 | 47.52 | ug/L | 97 |
| 21) carbon disulfide | 6.984 | 76 | 669160 | 39.78 | ug/L | 94 |
| 22) methylene chloride | 7.298 | 84 | 238412 | 43.89 | ug/L | 91 |
| 23) methyl acetate | 7.057 | 43 | 232118 | 39.48 | ug/L | 98 |
| 24) methyl tert butyl ether | 7.655 | 73 | 671316 | 43.74 | ug/L | 94 |
| 25) trans-1,2-dichloroethene | 7.681 | 96 | 229787 | 41.82 | ug/L | 93 |
| 26) hexane | 8.037 | 57 | 393238 | 36.01 | ug/L | 98 |
| 27) di-isopropyl ether | 8.247 | 45 | 934862 | 39.44 | ug/L | 97 |
| 28) ethyl tert-butyl ether | 8.709 | 59 | 874280 | 42.65 | ug/L | 99 |
| 29) 2-butanone | 8.903 | 72 | 119495 | 156.82 | ug/L | 100 |
| 30) 1,1-dichloroethane | 8.258 | 63 | 444613 | 41.92 | ug/L | 100 |
| 31) chloroprene | 8.357 | 53 | 400514 | 39.72 | ug/L | 93 |
| 33) vinyl acetate | 8.195 | 86 | 48007 | 59.80 | ug/L # | 76 |
| 34) ethyl acetate | 8.924 | 45 | 49137 | 42.92 | ug/L | 81 |
| 35) 2,2-dichloropropane | 8.997 | 77 | 294095 | 36.83 | ug/L | 97 |
| 36) cis-1,2-dichloroethene | 8.965 | 96 | 259829 | 43.94 | ug/L | 94 |
| 37) propionitrile | 8.976 | 54 | 438784 | 461.99 | ug/L | 91 |
| 38) bromochloromethane | 9.259 | 130 | 182558 | 48.36 | ug/L | 89 |
| 39) tetrahydrofuran | 9.280 | 42 | 95645 | 42.81 | ug/L | 93 |
| 40) chloroform | 9.348 | 83 | 419283 | 41.60 | ug/L | 95 |
| 41) tert-butyl formate | 9.385 | 59 | 221760 | 55.38 | ug/L | 97 |
| 42) isobutyl alcohol | 9.747 | 43 | 141016 | 395.16 | ug/L | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221287.d
Acq On : 27 Oct 2022 10:49 pm
Operator : nickw
Sample : cc9596-50 Inst : GCMS2A
Misc : MS63376,V2A9619,5,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:37:22 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 44) | methacrylonitrile | 9.170 | 67 | 112454 | 48.07 | ug/L | | 89 |
| 45) | 1,1,1-trichloroethane | 9.605 | 97 | 376799 | 43.75 | ug/L | | 95 |
| 46) | cyclohexane | 9.715 | 84 | 339826 | 41.22 | ug/L | | 85 |
| 47) | 1,1-dichloropropene | 9.773 | 75 | 306032 | 41.75 | ug/L | | 96 |
| 48) | tert-amyl alcohol | 9.904 | 73 | 78867 | 209.56 | ug/L | | 92 |
| 49) | carbon tetrachloride | 9.799 | 117 | 340463 | 45.53 | ug/L | | 98 |
| 52) | 2,2,4-trimethylpentane | 10.114 | 57 | 984826 | 39.24 | ug/L | | 97 |
| 53) | tert-amyl methyl ether | 10.103 | 73 | 724148 | 43.67 | ug/L | | 98 |
| 54) | n-butyl alcohol | 10.491 | 56 | 488692 | 2285.99 | ug/L | | 95 |
| 55) | benzene | 10.019 | 78 | 881441 | 43.08 | ug/L | | 99 |
| 56) | heptane | 10.276 | 57 | 202024 | 41.76 | ug/L | | 97 |
| 57) | isopropyl acetate | 9.935 | 87 | 56214 | 47.40 | ug/L | # | 76 |
| 58) | 1,2-dichloroethane | 10.040 | 62 | 341494 | 39.28 | ug/L | | 98 |
| 59) | trichloroethene | 10.743 | 95 | 251505 | 44.13 | ug/L | | 99 |
| 60) | ethyl acrylate | 10.732 | 55 | 411245 | 44.98 | ug/L | | 98 |
| 61) | 2-nitropropane | 11.498 | 41 | 63689 | 41.52 | ug/L | | 94 |
| 62) | 2-chloroethyl vinyl ether | 11.535 | 63 | 562206 | 470.07 | ug/L | | 97 |
| 63) | methyl methacrylate | 11.000 | 100 | 72873 | 49.57 | ug/L | # | 67 |
| 64) | 1,2-dichloropropane | 11.031 | 63 | 263418 | 43.67 | ug/L | | 100 |
| 65) | methylcyclohexane | 11.042 | 83 | 375319 | 39.68 | ug/L | | 98 |
| 66) | dibromomethane | 11.141 | 93 | 154839 | 47.19 | ug/L | | 93 |
| 67) | bromodichloromethane | 11.293 | 83 | 331520 | 44.60 | ug/L | | 98 |
| 68) | epichlorohydrin | 11.618 | 57 | 148073 | 218.82 | ug/L | | 98 |
| 69) | cis-1,3-dichloropropene | 11.755 | 75 | 374563 | 42.39 | ug/L | | 89 |
| 70) | 4-methyl-2-pentanone | 11.860 | 58 | 464428 | 180.56 | ug/L | | 87 |
| 71) | 3-methyl-1-butanol | 11.865 | 70 | 136499 | 877.21 | ug/L | | 93 |
| 74) | toluene | 12.132 | 92 | 519085 | 44.93 | ug/L | | 99 |
| 75) | trans-1,3-dichloropropene | 12.316 | 75 | 335042 | 46.16 | ug/L | | 99 |
| 76) | ethyl methacrylate | 12.311 | 69 | 303064 | 47.95 | ug/L | | 92 |
| 77) | 1,1,2-trichloroethane | 12.536 | 83 | 180604 | 48.58 | ug/L | | 95 |
| 78) | 2-hexanone | 12.704 | 58 | 438540 | 168.90 | ug/L | | 90 |
| 79) | tetrachloroethene | 12.683 | 166 | 286425 | 47.24 | ug/L | | 97 |
| 80) | 1,3-dichloropropane | 12.720 | 76 | 323007 | 45.93 | ug/L | | 99 |
| 81) | butyl acetate | 12.788 | 56 | 192828 | 46.20 | ug/L | | 86 |
| 82) | dibromochloromethane | 12.961 | 129 | 285356 | 53.05 | ug/L | | 99 |
| 83) | 1,2-dibromoethane | 13.113 | 107 | 243898 | 51.76 | ug/L | | 99 |
| 84) | n-butyl ether | 13.558 | 57 | 966104 | 40.02 | ug/L | | 98 |
| 85) | chlorobenzene | 13.590 | 112 | 597361 | 46.33 | ug/L | | 98 |
| 86) | 1,1,1,2-tetrachloroethane | 13.658 | 131 | 249354 | 50.79 | ug/L | | 99 |
| 87) | ethylbenzene | 13.653 | 91 | 913383 | 43.14 | ug/L | | 99 |
| 88) | m,p-xylene | 13.773 | 106 | 731423 | 88.72 | ug/L | | 99 |
| 89) | o-xylene | 14.172 | 91 | 731324 | 43.75 | ug/L | | 100 |
| 90) | styrene | 14.188 | 104 | 598442 | 46.20 | ug/L | | 99 |
| 91) | n-amyl acetate | 14.219 | 70 | 144389 | 44.35 | ug/L | | 88 |
| 92) | bromoform | 14.408 | 173 | 211011 | 57.71 | ug/L | | 99 |
| 93) | butyl acrylate | 14.009 | 55 | 536216 | 44.99 | ug/L | | 98 |
| 94) | isopropylbenzene | 14.523 | 105 | 900345 | 43.35 | ug/L | | 98 |
| 95) | cis-1,4-dichloro-2-butene | 14.560 | 88 | 91280 | 48.97 | ug/L | # | 82 |
| 98) | bromobenzene | 14.901 | 156 | 291290 | 47.75 | ug/L | | 91 |
| 99) | 1,1,2,2-tetrachloroethane | 14.801 | 83 | 269150 | 47.44 | ug/L | | 99 |
| 100) | trans-1,4-dichloro-2-b... | 14.832 | 53 | 65734 | 40.37 | ug/L | | 89 |
| 101) | 1,2,3-trichloropropane | 14.885 | 110 | 75534 | 51.41 | ug/L | | 99 |
| 102) | n-propylbenzene | 14.937 | 91 | 1012810 | 41.47 | ug/L | | 98 |
| 103) | 2-chlorotoluene | 15.068 | 126 | 250735 | 46.38 | ug/L | | 88 |
| 104) | 4-chlorotoluene | 15.178 | 91 | 649737 | 42.69 | ug/L | | 96 |
| 105) | 1,3,5-trimethylbenzene | 15.095 | 105 | 728448 | 43.30 | ug/L | | 100 |
| 106) | tert-butylbenzene | 15.430 | 119 | 673151 | 44.84 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221287.d
Acq On : 27 Oct 2022 10:49 pm
Operator : nickw
Sample : cc9596-50 Inst : GCMS2A
Misc : MS63376,V2A9619,5,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:37:22 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

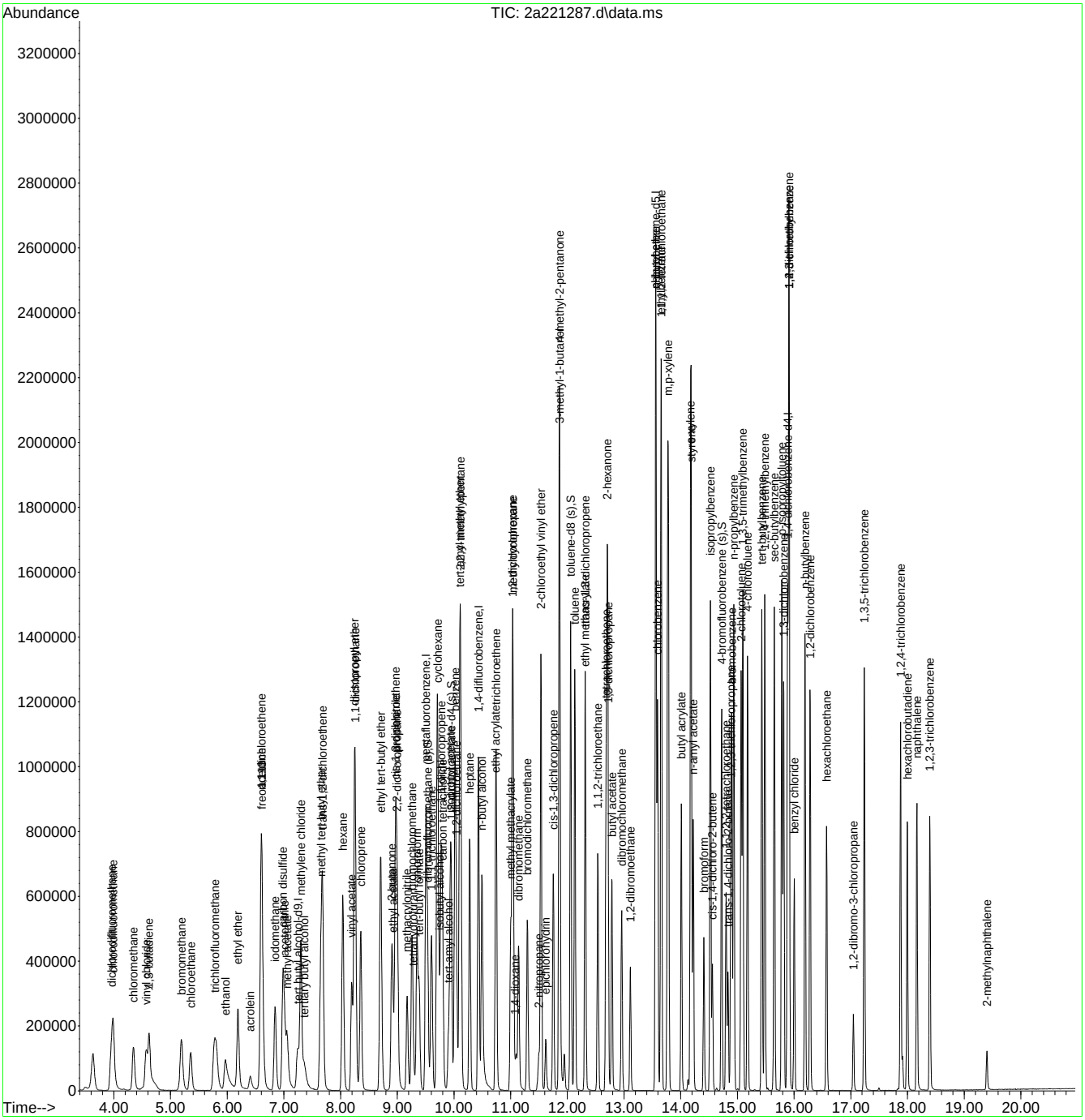
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 107) 1,2,4-trimethylbenzene | 15.483 | 105 | 737436 | 43.79 | ug/L | 99 |
| 108) sec-butylbenzene | 15.650 | 105 | 909072 | 41.86 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 15.813 | 146 | 497174 | 45.33 | ug/L | 99 |
| 110) p-isopropyltoluene | 15.781 | 119 | 832809 | 45.11 | ug/L | 99 |
| 111) benzyl chloride | 16.002 | 91 | 402612 | 45.55 | ug/L | 99 |
| 112) 1,2,3-trimethylbenzene | 15.913 | 105 | 746005 | 43.46 | ug/L | 99 |
| 113) 1,4-dichlorobenzene | 15.913 | 146 | 497090 | 45.12 | ug/L | 99 |
| 114) 1,2-dichlorobenzene | 16.285 | 146 | 494918 | 47.14 | ug/L | 97 |
| 115) n-butylbenzene | 16.190 | 92 | 383997 | 42.45 | ug/L | 99 |
| 116) 1,2-dibromo-3-chloropr... | 17.045 | 157 | 66770 | 57.14 | ug/L | 98 |
| 117) 1,3,5-trichlorobenzene | 17.239 | 180 | 399972 | 50.01 | ug/L | 97 |
| 118) 1,2,4-trichlorobenzene | 17.879 | 180 | 343894 | 53.31 | ug/L | 98 |
| 119) hexachlorobutadiene | 17.999 | 225 | 170402 | 49.50 | ug/L | 99 |
| 120) naphthalene | 18.167 | 128 | 655448 | 55.03 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 18.392 | 180 | 274639 | 52.79 | ug/L | 99 |
| 122) hexachloroethane | 16.573 | 201 | 134972 | 50.43 | ug/L | 97 |
| 123) 2-methylnaphthalene | 19.404 | 142 | 61473 | 19.35 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221287.d
Acq On : 27 Oct 2022 10:49 pm
Operator : nickw
Sample : cc9596-50 Inst : GCMS2A
Misc : MS63376,V2A9619,5,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:37:22 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348708.D
Acq On : 27 Oct 2022 1:55 am
Operator : PrashanS
Sample : IC10548-0.2
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 19:00:31 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.063 | 65 | 273490 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.282 | 168 | 264112 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.850 | 114 | 364197 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.241 | 117 | 315275 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.436 | 152 | 138144 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.282 | 168 | 264042 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.436 | 152 | 138239 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.289 | 113 | 106096 | 46.19 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.38% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.542 | 65 | 125041 | 52.72 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 105.44% | | | | |
| 73) toluene-d8 (s) | 5.996 | 98 | 436466 | 55.57 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 111.14% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.319 | 95 | 153892 | 46.86 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.72% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 6) chlorodifluoromethane | 1.654 | 51 | 1169 | 0.22 | ug/L | # | 64 |
| 9) vinyl chloride | 1.875 | 62 | 934 | 0.18 | ug/L | # | 49 |
| 12) chloroethane | 2.216 | 64 | 501 | 0.19 | ug/L | | 48 |
| 13) trichlorofluoromethane | 2.392 | 101 | 866 | 0.15 | ug/L | | 79 |
| 16) freon 113 | 2.761 | 151 | 478 | 0.19 | ug/L | # | 66 |
| 25) methyl tert butyl ether | 3.262 | 73 | 1682 | 0.17 | ug/L | | 73 |
| 29) ethyl tert-butyl ether | 3.817 | 59 | 2178 | 0.20 | ug/L | | 91 |
| 30) 2-butanone | 3.939 | 72 | 559 | 0.73 | ug/L | # | 52 |
| 45) 1,1,1-trichloroethane | 4.317 | 97 | 1109 | 0.24 | ug/L | # | 1 |
| 50) tert amyl alcohol | 4.523 | 55 | 634 | 2.01 | ug/L | # | 13 |
| 59) trichloroethene | 5.052 | 95 | 699 | 0.23 | ug/L | # | 59 |
| 62) 2-chloroethyl vinyl ether | 5.630 | 63 | 2143 | 0.97 | ug/L | | 77 |
| 64) 1,2-dichloropropane | 5.254 | 63 | 607 | 0.20 | ug/L | # | 42 |
| 67) bromodichloromethane | 5.434 | 83 | 960 | 0.23 | ug/L | | 93 |
| 68) cis-1,3-dichloropropene | 5.771 | 75 | 963 | 0.19 | ug/L | | 77 |
| 74) toluene | 6.050 | 92 | 1545 | 0.23 | ug/L | | 96 |
| 77) 1,1,2-trichloroethane | 6.387 | 83 | 434 | 0.19 | ug/L | # | 37 |
| 78) 2-hexanone | 6.570 | 58 | 1531 | 0.79 | ug/L | # | 50 |
| 79) tetrachloroethene | 6.487 | 166 | 502 | 0.18 | ug/L | # | 39 |
| 80) 1,3-dichloropropane | 6.548 | 76 | 1015 | 0.24 | ug/L | # | 50 |
| 83) 1,2-dibromoethane | 6.840 | 107 | 513 | 0.18 | ug/L | | 74 |
| 85) chlorobenzene | 7.270 | 112 | 1648 | 0.24 | ug/L | # | 58 |
| 87) ethylbenzene | 7.347 | 91 | 2899 | 0.26 | ug/L | | 71 |
| 88) m,p-xylene | 7.456 | 106 | 2213 | 0.49 | ug/L | # | 93 |
| 91) styrene | 7.834 | 104 | 1726 | 0.23 | ug/L | # | 70 |
| 97) bromobenzene | 8.463 | 156 | 539 | 0.18 | ug/L | # | 52 |
| 98) 1,1,2,2-tetrachloroethane | 8.441 | 83 | 1029 | 0.22 | ug/L | | 90 |
| 103) 4-chlorotoluene | 8.759 | 126 | 506 | 0.18 | ug/L | # | 86 |
| 104) 1,3,5-trimethylbenzene | 8.714 | 105 | 2371 | 0.23 | ug/L | | 67 |
| 105) tert-butylbenzene | 9.019 | 119 | 1948 | 0.22 | ug/L | | 85 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348708.D
Acq On : 27 Oct 2022 1:55 am
Operator : PrashanS
Sample : IC10548-0.2
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 19:00:31 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

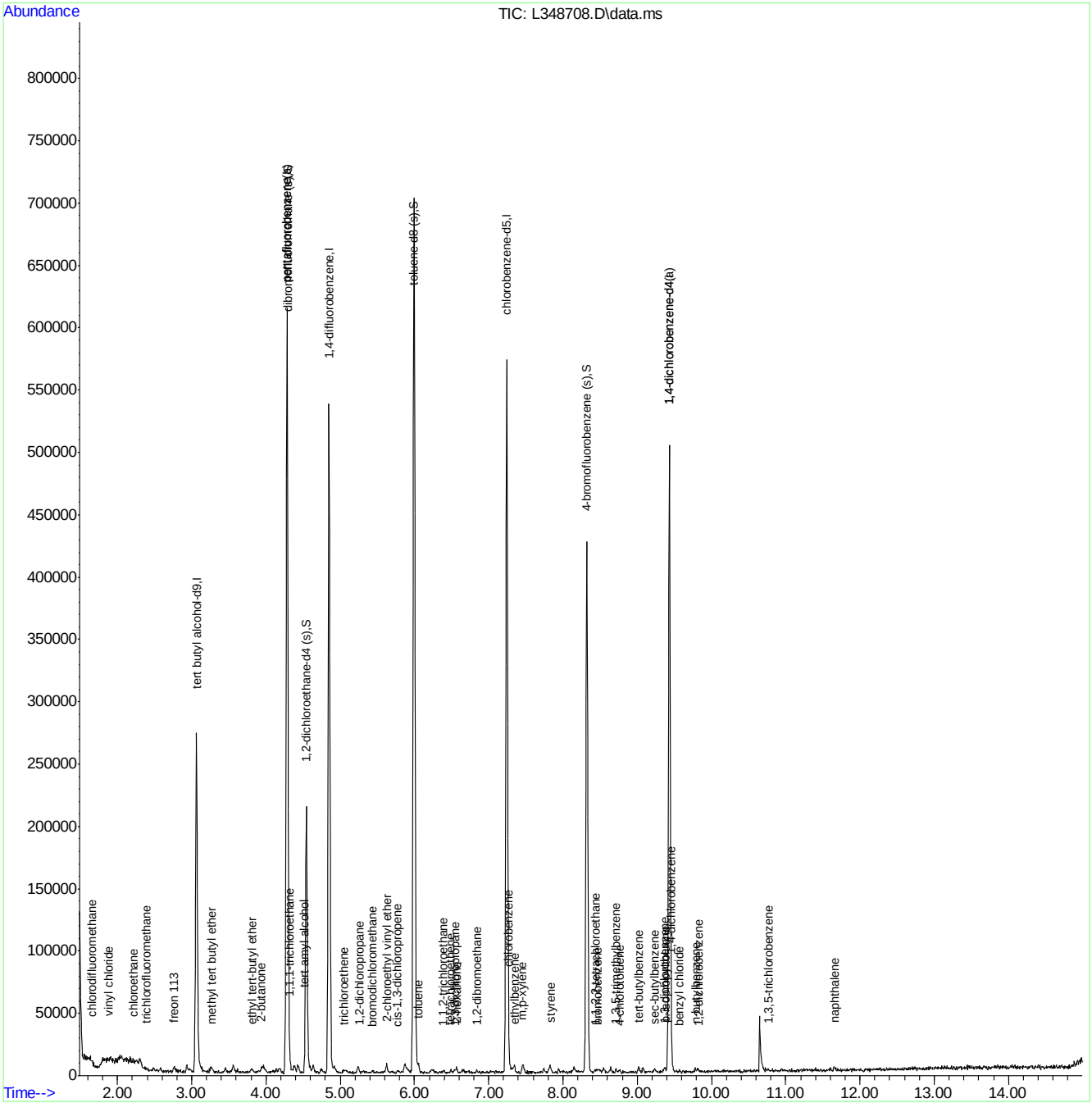
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 107) sec-butylbenzene | 9.234 | 105 | 2593 | 0.20 | ug/L | | 91 |
| 108) 1,3-dichlorobenzene | 9.365 | 146 | 945 | 0.17 | ug/L | | 87 |
| 109) p-isopropyltoluene | 9.375 | 119 | 2082 | 0.21 | ug/L | # | 65 |
| 110) 1,4-dichlorobenzene | 9.458 | 146 | 1210 | 0.24 | ug/L | | 77 |
| 112) 1,2-dichlorobenzene | 9.821 | 146 | 1052 | 0.21 | ug/L | # | 69 |
| 113) n-butylbenzene | 9.785 | 92 | 979 | 0.18 | ug/L | | 84 |
| 115) 1,3,5-trichlorobenzene | 10.764 | 180 | 661 | 0.17 | ug/L | # | 60 |
| 118) naphthalene | 11.656 | 128 | 1802 | 0.17 | ug/L | | 71 |
| 121) benzyl chloride | 9.570 | 91 | 1720 | 0.21 | ug/L | | 60 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348708.D
Acq On : 27 Oct 2022 1:55 am
Operator : PrashanS
Sample : IC10548-0.2
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 19:00:31 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348709.D
Acq On : 27 Oct 2022 2:18 am
Operator : PrashanS
Sample : IC10548-0.5
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 27 19:02:13 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.066 | 65 | 284878 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.282 | 168 | 252162 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.850 | 114 | 348592 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.241 | 117 | 312395 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.433 | 152 | 136984 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.282 | 168 | 252588 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.433 | 152 | 136985 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.292 | 113 | 102329 | 46.66 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.32% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.545 | 65 | 125090 | 55.11 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 110.22% | | | | |
| 73) toluene-d8 (s) | 5.996 | 98 | 426828 | 54.85 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 109.70% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.322 | 95 | 150976 | 46.36 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.72% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 3) ethanol | 2.488 | 45 | 4326 | 55.44 | ug/L | | 92 |
| 4) tertiary butyl alcohol | 3.124 | 59 | 2423 | 2.78 | ug/L | | 87 |
| 6) chlorodifluoromethane | 1.654 | 51 | 2418 | 0.48 | ug/L | # | 75 |
| 7) dichlorodifluoromethane | 1.635 | 85 | 2441 | 0.38 | ug/L | | 84 |
| 8) chloromethane | 1.799 | 50 | 2347 | 0.50 | ug/L | | 69 |
| 9) vinyl chloride | 1.882 | 62 | 2218 | 0.45 | ug/L | | 85 |
| 10) 1,3-butadiene | 1.908 | 54 | 1532 | 0.45 | ug/L | | 81 |
| 12) chloroethane | 2.212 | 64 | 1287 | 0.52 | ug/L | | 57 |
| 13) trichlorofluoromethane | 2.395 | 101 | 2309 | 0.43 | ug/L | | 87 |
| 14) ethyl ether | 2.575 | 74 | 1244 | 0.60 | ug/L | # | 59 |
| 16) freon 113 | 2.764 | 151 | 1247 | 0.52 | ug/L | # | 54 |
| 23) methylene chloride | 3.095 | 84 | 1711 | 0.55 | ug/L | | 86 |
| 24) methyl acetate | 2.976 | 74 | 387 | 0.42 | ug/L | # | 78 |
| 25) methyl tert butyl ether | 3.265 | 73 | 5013 | 0.53 | ug/L | | 95 |
| 27) hexane | 3.454 | 57 | 3155 | 0.60 | ug/L | | 79 |
| 29) ethyl tert-butyl ether | 3.811 | 59 | 5985 | 0.56 | ug/L | | 90 |
| 30) 2-butanone | 3.932 | 72 | 1733 | 2.36 | ug/L | # | 68 |
| 33) acrylonitrile | 3.243 | 53 | 1006 | 0.46 | ug/L | | 80 |
| 34) vinyl acetate | 3.551 | 86 | 375 | 0.45 | ug/L | # | 1 |
| 35) ethyl acetate | 3.942 | 45 | 373 | 0.44 | ug/L | # | 1 |
| 40) bromochloromethane | 4.131 | 128 | 685 | 0.49 | ug/L | # | 57 |
| 41) tetrahydrofuran | 4.131 | 72 | 438 | 0.54 | ug/L | # | 48 |
| 44) methacrylonitrile | 4.093 | 67 | 1190 | 0.57 | ug/L | # | 51 |
| 45) 1,1,1-trichloroethane | 4.321 | 97 | 2369 | 0.53 | ug/L | # | 32 |
| 47) 1,1-dichloropropene | 4.433 | 75 | 2044 | 0.52 | ug/L | | 87 |
| 48) carbon tetrachloride | 4.427 | 117 | 1927 | 0.55 | ug/L | | 91 |
| 56) benzene | 4.581 | 78 | 6950 | 0.65 | ug/L | | 97 |
| 57) heptane | 4.754 | 57 | 1309 | 0.59 | ug/L | # | 73 |
| 59) trichloroethene | 5.046 | 95 | 1688 | 0.59 | ug/L | | 93 |
| 62) 2-chloroethyl vinyl ether | 5.624 | 63 | 6202 | 2.93 | ug/L | | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348709.D
Acq On : 27 Oct 2022 2:18 am
Operator : PrashanS
Sample : IC10548-0.5
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 27 19:02:13 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

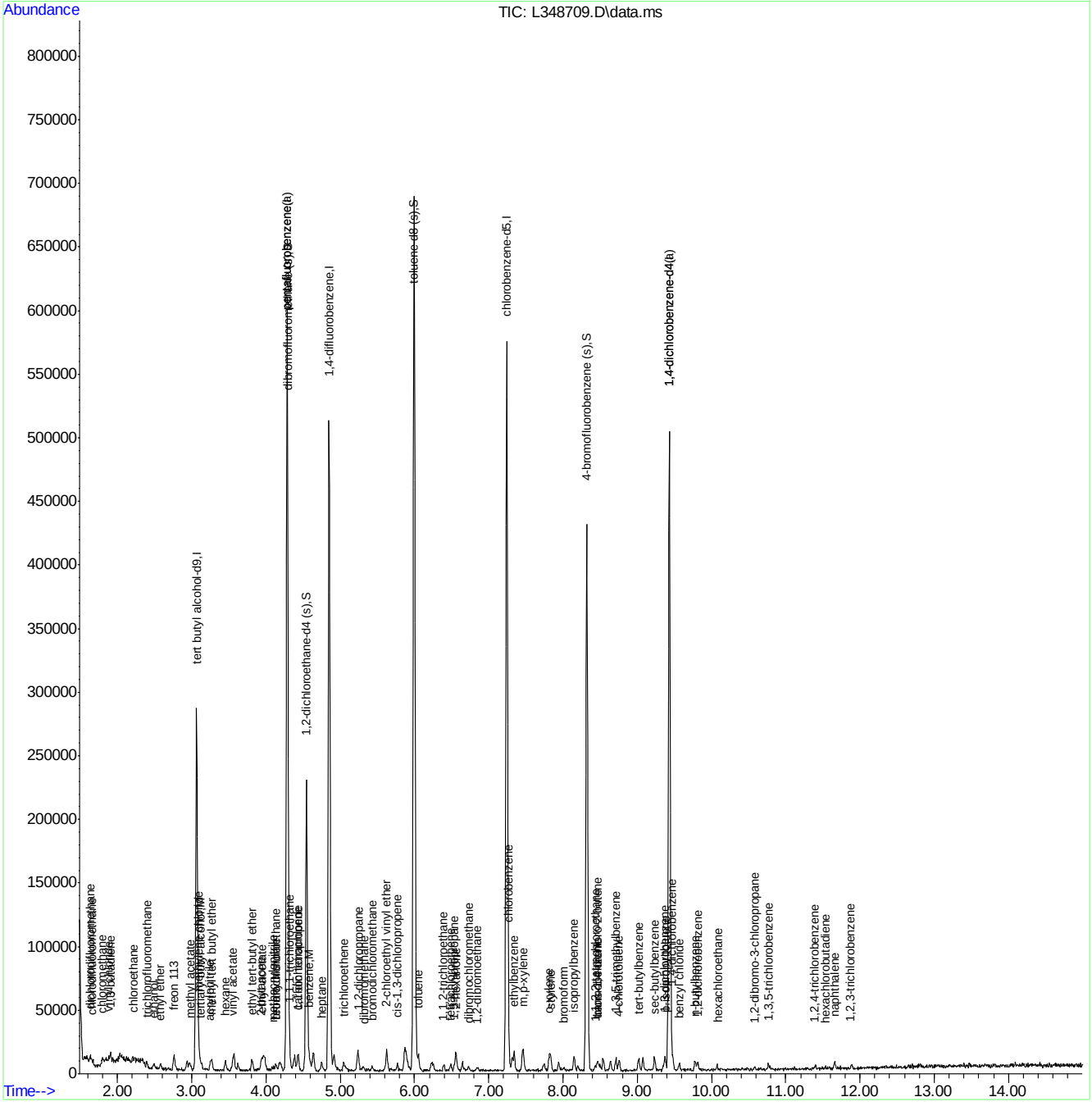
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 64) | 1,2-dichloropropane | 5.245 | 63 | 1751 | 0.59 | ug/L | | 78 |
| 66) | dibromomethane | 5.325 | 93 | 1066 | 0.64 | ug/L | # | 77 |
| 67) | bromodichloromethane | 5.431 | 83 | 2353 | 0.59 | ug/L | | 96 |
| 68) | cis-1,3-dichloropropene | 5.771 | 75 | 2975 | 0.61 | ug/L | | 88 |
| 74) | toluene | 6.054 | 92 | 3757 | 0.57 | ug/L | | 96 |
| 77) | 1,1,2-trichloroethane | 6.390 | 83 | 1280 | 0.56 | ug/L | | 83 |
| 78) | 2-hexanone | 6.564 | 58 | 4840 | 2.53 | ug/L | | 93 |
| 79) | tetrachloroethene | 6.490 | 166 | 1599 | 0.58 | ug/L | | 81 |
| 80) | 1,3-dichloropropane | 6.538 | 76 | 2609 | 0.62 | ug/L | | 97 |
| 82) | dibromochloromethane | 6.727 | 129 | 1652 | 0.62 | ug/L | | 78 |
| 83) | 1,2-dibromoethane | 6.846 | 107 | 1720 | 0.61 | ug/L | | 92 |
| 85) | chlorobenzene | 7.267 | 112 | 3815 | 0.57 | ug/L | | 86 |
| 87) | ethylbenzene | 7.344 | 91 | 7257 | 0.65 | ug/L | | 98 |
| 88) | m,p-xylene | 7.459 | 106 | 5718 | 1.29 | ug/L | | 82 |
| 89) | o-xylene | 7.815 | 106 | 2562 | 0.56 | ug/L | | 86 |
| 91) | styrene | 7.828 | 104 | 4470 | 0.60 | ug/L | | 67 |
| 92) | bromoform | 8.008 | 173 | 1226 | 0.59 | ug/L | | 74 |
| 93) | isopropylbenzene | 8.146 | 105 | 6935 | 0.58 | ug/L | | 87 |
| 97) | bromobenzene | 8.470 | 156 | 1599 | 0.53 | ug/L | # | 58 |
| 98) | 1,1,2,2-tetrachloroethane | 8.438 | 83 | 2375 | 0.52 | ug/L | | 68 |
| 99) | trans-1,4-dichloro-2-b... | 8.463 | 53 | 634 | 0.52 | ug/L | # | 42 |
| 103) | 4-chlorotoluene | 8.752 | 126 | 1530 | 0.56 | ug/L | # | 51 |
| 104) | 1,3,5-trimethylbenzene | 8.714 | 105 | 5587 | 0.55 | ug/L | | 86 |
| 105) | tert-butylbenzene | 9.022 | 119 | 4496 | 0.52 | ug/L | | 89 |
| 107) | sec-butylbenzene | 9.237 | 105 | 7161 | 0.56 | ug/L | | 86 |
| 108) | 1,3-dichlorobenzene | 9.365 | 146 | 2661 | 0.50 | ug/L | | 89 |
| 109) | p-isopropyltoluene | 9.378 | 119 | 5597 | 0.57 | ug/L | | 86 |
| 110) | 1,4-dichlorobenzene | 9.461 | 146 | 2645 | 0.53 | ug/L | | 95 |
| 112) | 1,2-dichlorobenzene | 9.814 | 146 | 2490 | 0.51 | ug/L | | 79 |
| 113) | n-butylbenzene | 9.776 | 92 | 2720 | 0.51 | ug/L | # | 65 |
| 114) | 1,2-dibromo-3-chloropr... | 10.578 | 157 | 590 | 0.47 | ug/L | # | 65 |
| 115) | 1,3,5-trichlorobenzene | 10.771 | 180 | 1744 | 0.46 | ug/L | # | 59 |
| 116) | 1,2,4-trichlorobenzene | 11.390 | 180 | 1362 | 0.41 | ug/L | | 80 |
| 117) | hexachlorobutadiene | 11.538 | 225 | 666 | 0.52 | ug/L | # | 18 |
| 118) | naphthalene | 11.656 | 128 | 5333 | 0.51 | ug/L | | 90 |
| 119) | 1,2,3-trichlorobenzene | 11.874 | 180 | 1326 | 0.44 | ug/L | # | 47 |
| 120) | hexachloroethane | 10.084 | 119 | 927 | 0.46 | ug/L | # | 58 |
| 121) | benzyl chloride | 9.567 | 91 | 4487 | 0.56 | ug/L | | 91 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348709.D
Acq On : 27 Oct 2022 2:18 am
Operator : PrashanS
Sample : IC10548-0.5
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 27 19:02:13 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348710.D
Acq On : 27 Oct 2022 2:41 am
Operator : PrashanS
Sample : IC10548-1
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 17:51:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.063 | 65 | 268266 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.279 | 168 | 252786 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.847 | 114 | 347413 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.238 | 117 | 307527 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.433 | 152 | 132401 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.279 | 168 | 253888 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.433 | 152 | 132401 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.289 | 113 | 101426 | 46.13 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.26% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.542 | 65 | 120163 | 53.12 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 106.24% | | | | |
| 73) toluene-d8 (s) | 5.993 | 98 | 426929 | 55.73 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 111.46% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.319 | 95 | 149376 | 47.46 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.92% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.284 | 88 | 1440 | 26.89 | ug/L | # | 61 |
| 3) ethanol | 2.482 | 45 | 8275 | 112.62 | ug/L | | 88 |
| 4) tertiary butyl alcohol | 3.118 | 59 | 3741 | 4.56 | ug/L | | 80 |
| 6) chlorodifluoromethane | 1.657 | 51 | 5413 | 1.06 | ug/L | # | 86 |
| 7) dichlorodifluoromethane | 1.635 | 85 | 5576 | 0.86 | ug/L | | 95 |
| 8) chloromethane | 1.795 | 50 | 4303 | 0.92 | ug/L | | 80 |
| 9) vinyl chloride | 1.876 | 62 | 4727 | 0.95 | ug/L | | 92 |
| 10) 1,3-butadiene | 1.911 | 54 | 3613 | 1.07 | ug/L | | 92 |
| 12) chloroethane | 2.213 | 64 | 2526 | 1.02 | ug/L | | 95 |
| 13) trichlorofluoromethane | 2.392 | 101 | 5007 | 0.92 | ug/L | | 93 |
| 14) ethyl ether | 2.578 | 74 | 1976 | 0.95 | ug/L | # | 76 |
| 16) freon 113 | 2.748 | 151 | 2417 | 1.01 | ug/L | | 89 |
| 17) 1,1-dichloroethene | 2.761 | 96 | 2910 | 1.06 | ug/L | # | 72 |
| 18) acetone | 2.771 | 58 | 3186 | 4.65 | ug/L | # | 73 |
| 22) carbon disulfide | 2.935 | 76 | 11932 | 1.33 | ug/L | | 95 |
| 23) methylene chloride | 3.092 | 84 | 3238 | 1.04 | ug/L | | 77 |
| 24) methyl acetate | 2.980 | 74 | 863 | 0.92 | ug/L | | 95 |
| 25) methyl tert butyl ether | 3.255 | 73 | 10009 | 1.05 | ug/L | | 91 |
| 26) trans-1,2-dichloroethene | 3.278 | 96 | 3487 | 1.22 | ug/L | | 89 |
| 27) hexane | 3.451 | 57 | 5424 | 1.02 | ug/L | | 85 |
| 29) ethyl tert-butyl ether | 3.807 | 59 | 11518 | 1.08 | ug/L | | 91 |
| 30) 2-butanone | 3.936 | 72 | 2929 | 3.97 | ug/L | # | 58 |
| 31) 1,1-dichloroethane | 3.567 | 63 | 6025 | 1.09 | ug/L | | 90 |
| 32) chloroprene | 3.618 | 53 | 5524 | 1.12 | ug/L | | 79 |
| 33) acrylonitrile | 3.236 | 53 | 2201 | 1.00 | ug/L | | 85 |
| 34) vinyl acetate | 3.544 | 86 | 720 | 0.85 | ug/L | # | 1 |
| 36) 2,2-dichloropropane | 3.968 | 77 | 5092 | 1.21 | ug/L | | 95 |
| 37) cis-1,2-dichloroethene | 3.958 | 96 | 3214 | 1.05 | ug/L | # | 63 |
| 39) methyl acrylate | 3.994 | 85 | 785 | 1.12 | ug/L | # | 1 |
| 40) bromochloromethane | 4.122 | 128 | 1293 | 0.93 | ug/L | | 84 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348710.D
Acq On : 27 Oct 2022 2:41 am
Operator : PrashanS
Sample : IC10548-1
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 17:51:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) tetrahydrofuran | 4.135 | 72 | 777 | 0.96 | ug/L | # | 52 |
| 42) chloroform | 4.180 | 83 | 6459 | 1.23 | ug/L | | 91 |
| 44) methacrylonitrile | 4.090 | 67 | 2347 | 1.12 | ug/L | | 93 |
| 45) 1,1,1-trichloroethane | 4.314 | 97 | 4857 | 1.09 | ug/L | # | 70 |
| 46) cyclohexane | 4.382 | 84 | 5111 | 1.10 | ug/L | | 83 |
| 47) 1,1-dichloropropene | 4.424 | 75 | 4945 | 1.25 | ug/L | | 90 |
| 48) carbon tetrachloride | 4.433 | 117 | 3916 | 1.11 | ug/L | | 99 |
| 49) isopropyl acetate | 4.545 | 87 | 1026 | 1.10 | ug/L | # | 45 |
| 56) benzene | 4.571 | 78 | 12588 | 1.17 | ug/L | | 98 |
| 57) heptane | 4.744 | 57 | 2538 | 1.15 | ug/L | | 90 |
| 58) 1,2-dichloroethane | 4.597 | 62 | 4466 | 1.24 | ug/L | | 83 |
| 59) trichloroethene | 5.040 | 95 | 3183 | 1.11 | ug/L | | 79 |
| 61) 2-nitropropane | 5.595 | 41 | 1612 | 1.19 | ug/L | | 87 |
| 62) 2-chloroethyl vinyl ether | 5.620 | 63 | 12285 | 5.82 | ug/L | | 94 |
| 63) methyl methacrylate | 5.235 | 100 | 1248 | 1.15 | ug/L | # | 46 |
| 64) 1,2-dichloropropane | 5.239 | 63 | 3421 | 1.16 | ug/L | | 83 |
| 65) methylcyclohexane | 5.229 | 83 | 6132 | 1.17 | ug/L | | 75 |
| 66) dibromomethane | 5.303 | 93 | 1967 | 1.18 | ug/L | | 84 |
| 67) bromodichloromethane | 5.431 | 83 | 4632 | 1.17 | ug/L | | 76 |
| 68) cis-1,3-dichloropropene | 5.768 | 75 | 4853 | 0.99 | ug/L | | 91 |
| 69) epichlorohydrin | 5.681 | 57 | 3451 | 5.84 | ug/L | | 82 |
| 70) 4-methyl-2-pentanone | 5.868 | 58 | 9144 | 4.78 | ug/L | | 90 |
| 74) toluene | 6.044 | 92 | 8049 | 1.25 | ug/L | | 79 |
| 75) trans-1,3-dichloropropene | 6.217 | 75 | 5187 | 1.25 | ug/L | | 91 |
| 77) 1,1,2-trichloroethane | 6.394 | 83 | 2632 | 1.18 | ug/L | | 95 |
| 78) 2-hexanone | 6.554 | 58 | 10248 | 5.43 | ug/L | | 97 |
| 79) tetrachloroethene | 6.490 | 166 | 3372 | 1.24 | ug/L | | 69 |
| 80) 1,3-dichloropropane | 6.538 | 76 | 5182 | 1.25 | ug/L | | 85 |
| 82) dibromochloromethane | 6.731 | 129 | 3144 | 1.19 | ug/L | | 88 |
| 83) 1,2-dibromoethane | 6.843 | 107 | 3168 | 1.15 | ug/L | | 87 |
| 85) chlorobenzene | 7.270 | 112 | 7440 | 1.13 | ug/L | | 90 |
| 86) 1,1,1,2-tetrachloroethane | 7.334 | 131 | 2899 | 1.31 | ug/L | | 71 |
| 87) ethylbenzene | 7.340 | 91 | 14549 | 1.32 | ug/L | | 99 |
| 88) m,p-xylene | 7.453 | 106 | 10849 | 2.48 | ug/L | | 90 |
| 89) o-xylene | 7.812 | 106 | 5478 | 1.21 | ug/L | | 91 |
| 91) styrene | 7.828 | 104 | 9139 | 1.26 | ug/L | | 90 |
| 92) bromoform | 8.005 | 173 | 2456 | 1.19 | ug/L | | 70 |
| 93) isopropylbenzene | 8.146 | 105 | 14678 | 1.26 | ug/L | | 88 |
| 94) cis-1,4-dichloro-2-butene | 8.197 | 88 | 1176 | 0.89 | ug/L | # | 80 |
| 97) bromobenzene | 8.464 | 156 | 3232 | 1.11 | ug/L | # | 69 |
| 98) 1,1,2,2-tetrachloroethane | 8.428 | 83 | 4974 | 1.12 | ug/L | | 86 |
| 99) trans-1,4-dichloro-2-b... | 8.467 | 53 | 1068 | 0.91 | ug/L | # | 65 |
| 100) 1,2,3-trichloropropane | 8.499 | 110 | 1285 | 1.06 | ug/L | # | 39 |
| 101) n-propylbenzene | 8.541 | 91 | 15007 | 1.09 | ug/L | | 91 |
| 102) 2-chlorotoluene | 8.637 | 126 | 2972 | 1.08 | ug/L | | 94 |
| 103) 4-chlorotoluene | 8.759 | 126 | 3006 | 1.14 | ug/L | # | 66 |
| 104) 1,3,5-trimethylbenzene | 8.707 | 105 | 11006 | 1.13 | ug/L | | 82 |
| 105) tert-butylbenzene | 9.015 | 119 | 9123 | 1.08 | ug/L | | 87 |
| 106) 1,2,4-trimethylbenzene | 9.076 | 105 | 11156 | 1.14 | ug/L | | 98 |
| 107) sec-butylbenzene | 9.234 | 105 | 13624 | 1.10 | ug/L | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348710.D
Acq On : 27 Oct 2022 2:41 am
Operator : PrashanS
Sample : IC10548-1
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 17:51:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 108) 1,3-dichlorobenzene | 9.359 | 146 | 5696 | 1.10 | ug/L | | 99 |
| 109) p-isopropyltoluene | 9.378 | 119 | 10784 | 1.15 | ug/L | | 96 |
| 110) 1,4-dichlorobenzene | 9.458 | 146 | 5010 | 1.04 | ug/L | | 81 |
| 111) 1,2,3-trimethylbenzene | 9.484 | 105 | 11015 | 1.20 | ug/L | | 84 |
| 112) 1,2-dichlorobenzene | 9.811 | 146 | 5120 | 1.09 | ug/L | | 91 |
| 113) n-butylbenzene | 9.773 | 92 | 5015 | 0.97 | ug/L | # | 73 |
| 114) 1,2-dibromo-3-chloropr... | 10.581 | 157 | 946 | 0.78 | ug/L | # | 75 |
| 115) 1,3,5-trichlorobenzene | 10.768 | 180 | 3088 | 0.84 | ug/L | | 88 |
| 116) 1,2,4-trichlorobenzene | 11.393 | 180 | 2709 | 0.85 | ug/L | | 98 |
| 117) hexachlorobutadiene | 11.534 | 225 | 1418 | 1.15 | ug/L | # | 69 |
| 118) naphthalene | 11.656 | 128 | 9891 | 0.97 | ug/L | | 89 |
| 119) 1,2,3-trichlorobenzene | 11.871 | 180 | 2792 | 0.96 | ug/L | # | 64 |
| 120) hexachloroethane | 10.081 | 119 | 1886 | 0.96 | ug/L | | 82 |
| 121) benzyl chloride | 9.561 | 91 | 7643 | 0.99 | ug/L | | 87 |

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

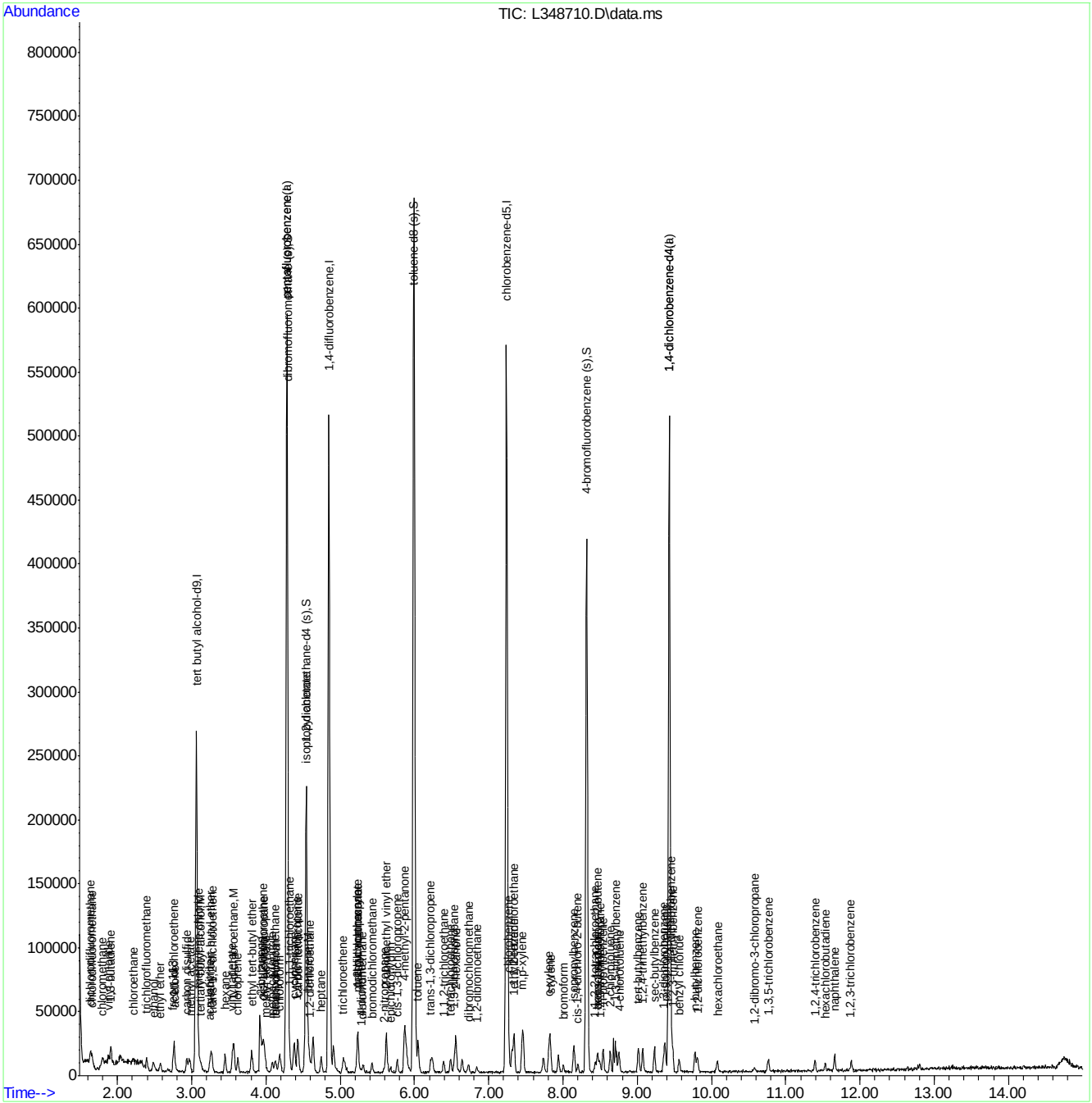
7.6.16

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348710.D
Acq On : 27 Oct 2022 2:41 am
Operator : PrashanS
Sample : IC10548-1
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 17:51:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348711.D
Acq On : 27 Oct 2022 3:04 am
Operator : PrashanS
Sample : IC10548-2
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 27 19:04:02 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.066 | 65 | 287293 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.285 | 168 | 251349 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.850 | 114 | 353916 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.241 | 117 | 315209 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.433 | 152 | 135822 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.285 | 168 | 250900 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.433 | 152 | 135844 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.292 | 113 | 102152 | 46.73 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.46% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.545 | 65 | 129125 | 56.03 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 112.06% | | | | |
| 73) toluene-d8 (s) | 5.996 | 98 | 425384 | 54.17 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 108.34% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.322 | 95 | 153826 | 47.64 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.28% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.283 | 88 | 3093 | 53.93 | ug/L | | 97 |
| 3) ethanol | 2.485 | 45 | 15355 | 195.14 | ug/L | | 97 |
| 4) tertiary butyl alcohol | 3.127 | 59 | 8866 | 10.09 | ug/L | | 92 |
| 6) chlorodifluoromethane | 1.661 | 51 | 9388 | 1.85 | ug/L | # | 100 |
| 7) dichlorodifluoromethane | 1.638 | 85 | 10960 | 1.70 | ug/L | | 89 |
| 8) chloromethane | 1.802 | 50 | 8465 | 1.81 | ug/L | | 89 |
| 9) vinyl chloride | 1.882 | 62 | 8743 | 1.77 | ug/L | | 95 |
| 10) 1,3-butadiene | 1.911 | 54 | 6628 | 1.97 | ug/L | | 98 |
| 11) bromomethane | 2.139 | 96 | 1256 | 1.12 | ug/L | | 78 |
| 12) chloroethane | 2.216 | 64 | 4843 | 1.97 | ug/L | | 92 |
| 13) trichlorofluoromethane | 2.402 | 101 | 10039 | 1.86 | ug/L | | 76 |
| 14) ethyl ether | 2.585 | 74 | 4262 | 2.06 | ug/L | | 80 |
| 15) acrolein | 2.687 | 56 | 2189 | 2.06 | ug/L | | 92 |
| 16) freon 113 | 2.758 | 151 | 4636 | 1.94 | ug/L | | 92 |
| 17) 1,1-dichloroethene | 2.761 | 96 | 5980 | 2.19 | ug/L | | 85 |
| 18) acetone | 2.774 | 58 | 5348 | 7.85 | ug/L | | 99 |
| 19) acetonitrile | 2.963 | 40 | 7290 | 19.24 | ug/L | | 97 |
| 20) iodomethane | 2.877 | 142 | 1624 | 0.85 | ug/L | | 81 |
| 22) carbon disulfide | 2.935 | 76 | 20057 | 2.25 | ug/L | | 96 |
| 23) methylene chloride | 3.095 | 84 | 6707 | 2.16 | ug/L | | 82 |
| 24) methyl acetate | 2.979 | 74 | 1888 | 2.03 | ug/L | # | 56 |
| 25) methyl tert butyl ether | 3.259 | 73 | 20012 | 2.11 | ug/L | | 89 |
| 26) trans-1,2-dichloroethene | 3.275 | 96 | 5864 | 2.07 | ug/L | | 86 |
| 27) hexane | 3.454 | 57 | 11521 | 2.18 | ug/L | | 91 |
| 28) di-isopropyl ether | 3.567 | 45 | 23612 | 2.27 | ug/L | | 90 |
| 29) ethyl tert-butyl ether | 3.814 | 59 | 22935 | 2.17 | ug/L | | 95 |
| 30) 2-butanone | 3.929 | 72 | 5856 | 7.98 | ug/L | # | 74 |
| 31) 1,1-dichloroethane | 3.576 | 63 | 11680 | 2.12 | ug/L | | 88 |
| 32) chloroprene | 3.621 | 53 | 10682 | 2.18 | ug/L | | 96 |
| 33) acrylonitrile | 3.243 | 53 | 4084 | 1.87 | ug/L | | 81 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348711.D
Acq On : 27 Oct 2022 3:04 am
Operator : PrashanS
Sample : IC10548-2
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 27 19:04:02 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 34) vinyl acetate | 3.544 | 86 | 1777 | 2.12 | ug/L | # | 70 |
| 35) ethyl acetate | 3.945 | 45 | 2009 | 2.39 | ug/L | # | 58 |
| 36) 2,2-dichloropropane | 3.968 | 77 | 10177 | 2.43 | ug/L | | 91 |
| 37) cis-1,2-dichloroethene | 3.965 | 96 | 7186 | 2.36 | ug/L | | 78 |
| 39) methyl acrylate | 3.997 | 85 | 1731 | 2.48 | ug/L | # | 38 |
| 40) bromochloromethane | 4.125 | 128 | 3056 | 2.20 | ug/L | | 78 |
| 41) tetrahydrofuran | 4.138 | 72 | 1702 | 2.11 | ug/L | # | 78 |
| 42) chloroform | 4.180 | 83 | 12192 | 2.34 | ug/L | | 92 |
| 44) methacrylonitrile | 4.093 | 67 | 4276 | 2.06 | ug/L | # | 78 |
| 45) 1,1,1-trichloroethane | 4.324 | 97 | 8704 | 1.97 | ug/L | | 97 |
| 46) cyclohexane | 4.379 | 84 | 9394 | 2.04 | ug/L | | 87 |
| 47) 1,1-dichloropropene | 4.427 | 75 | 8170 | 2.08 | ug/L | | 94 |
| 48) carbon tetrachloride | 4.433 | 117 | 7575 | 2.16 | ug/L | | 85 |
| 49) isopropyl acetate | 4.545 | 87 | 1568 | 1.69 | ug/L | # | 75 |
| 50) tert amyl alcohol | 4.520 | 55 | 3958 | 13.16 | ug/L | # | 80 |
| 53) tert-amyl methyl ether | 4.635 | 73 | 20927 | 2.42 | ug/L | | 94 |
| 54) 2,2,4-trimethylpentane | 4.638 | 57 | 22713 | 2.39 | ug/L | | 86 |
| 55) n-butyl alcohol | 4.908 | 56 | 21360 | 106.76 | ug/L | | 96 |
| 56) benzene | 4.577 | 78 | 25288 | 2.31 | ug/L | | 94 |
| 57) heptane | 4.751 | 57 | 4834 | 2.14 | ug/L | | 87 |
| 58) 1,2-dichloroethane | 4.597 | 62 | 8422 | 2.30 | ug/L | | 94 |
| 59) trichloroethene | 5.043 | 95 | 5683 | 1.94 | ug/L | | 91 |
| 60) ethyl acrylate | 5.062 | 55 | 12519 | 2.19 | ug/L | | 93 |
| 61) 2-nitropropane | 5.595 | 41 | 3037 | 2.20 | ug/L | # | 61 |
| 62) 2-chloroethyl vinyl ether | 5.627 | 63 | 25652 | 11.93 | ug/L | | 95 |
| 63) methyl methacrylate | 5.248 | 100 | 2183 | 1.98 | ug/L | # | 71 |
| 64) 1,2-dichloropropane | 5.242 | 63 | 7169 | 2.39 | ug/L | | 88 |
| 65) methylcyclohexane | 5.229 | 83 | 10778 | 2.02 | ug/L | | 98 |
| 66) dibromomethane | 5.309 | 93 | 4150 | 2.44 | ug/L | | 83 |
| 67) bromodichloromethane | 5.428 | 83 | 8562 | 2.12 | ug/L | | 94 |
| 68) cis-1,3-dichloropropene | 5.771 | 75 | 11042 | 2.22 | ug/L | | 91 |
| 69) epichlorohydrin | 5.681 | 57 | 6705 | 11.13 | ug/L | | 87 |
| 70) 4-methyl-2-pentanone | 5.871 | 58 | 18754 | 9.62 | ug/L | | 98 |
| 71) 3-methyl-1-butanol | 5.890 | 70 | 8790 | 48.29 | ug/L | | 94 |
| 74) toluene | 6.054 | 92 | 14598 | 2.21 | ug/L | | 86 |
| 75) trans-1,3-dichloropropene | 6.220 | 75 | 9600 | 2.25 | ug/L | | 90 |
| 76) ethyl methacrylate | 6.243 | 69 | 10173 | 2.27 | ug/L | | 84 |
| 77) 1,1,2-trichloroethane | 6.394 | 83 | 5142 | 2.24 | ug/L | | 91 |
| 78) 2-hexanone | 6.554 | 58 | 18591 | 9.62 | ug/L | | 87 |
| 79) tetrachloroethene | 6.487 | 166 | 6556 | 2.36 | ug/L | | 87 |
| 80) 1,3-dichloropropane | 6.541 | 76 | 10286 | 2.43 | ug/L | | 93 |
| 81) butyl acetate | 6.644 | 56 | 6327 | 2.24 | ug/L | | 94 |
| 82) dibromochloromethane | 6.724 | 129 | 5818 | 2.15 | ug/L | | 94 |
| 83) 1,2-dibromoethane | 6.843 | 107 | 6280 | 2.22 | ug/L | | 93 |
| 84) n-butyl ether | 7.315 | 57 | 27443 | 2.27 | ug/L | | 96 |
| 85) chlorobenzene | 7.273 | 112 | 14331 | 2.12 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 7.340 | 131 | 4973 | 2.20 | ug/L | | 94 |
| 87) ethylbenzene | 7.344 | 91 | 28788 | 2.56 | ug/L | | 89 |
| 88) m,p-xylene | 7.456 | 106 | 21320 | 4.75 | ug/L | | 93 |
| 89) o-xylene | 7.812 | 106 | 10183 | 2.20 | ug/L | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348711.D
Acq On : 27 Oct 2022 3:04 am
Operator : PrashanS
Sample : IC10548-2
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 27 19:04:02 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

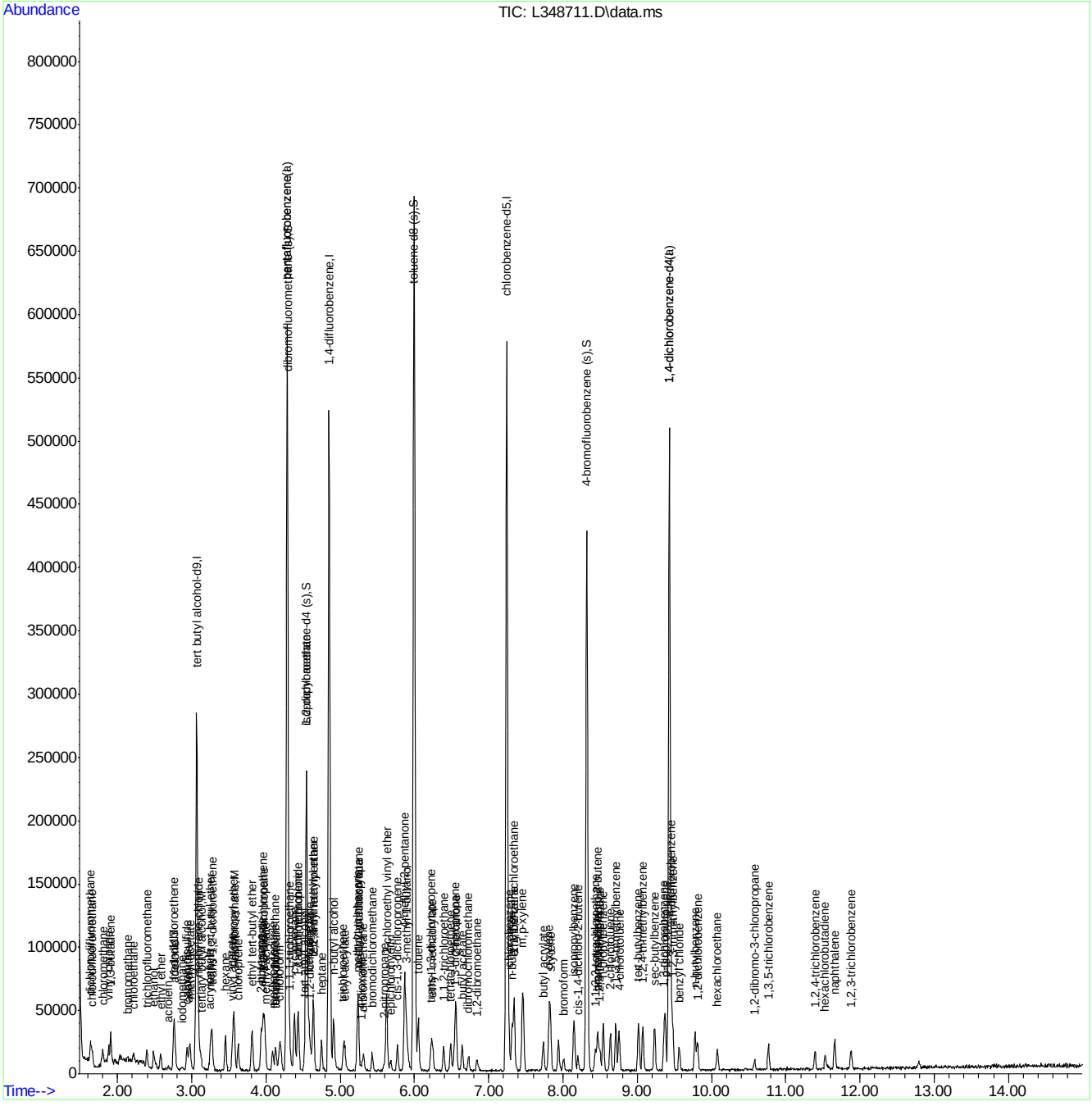
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 90) butyl acrylate | 7.738 | 55 | 15807 | 2.25 | ug/L | | 95 |
| 91) styrene | 7.835 | 104 | 17284 | 2.32 | ug/L | | 93 |
| 92) bromoform | 8.005 | 173 | 4554 | 2.16 | ug/L | | 90 |
| 93) isopropylbenzene | 8.149 | 105 | 28082 | 2.34 | ug/L | | 97 |
| 94) cis-1,4-dichloro-2-butene | 8.207 | 88 | 2474 | 1.82 | ug/L | | 90 |
| 97) bromobenzene | 8.463 | 156 | 6183 | 2.06 | ug/L | # | 76 |
| 98) 1,1,2,2-tetrachloroethane | 8.435 | 83 | 8793 | 1.94 | ug/L | | 87 |
| 99) trans-1,4-dichloro-2-b... | 8.470 | 53 | 2302 | 1.91 | ug/L | | 85 |
| 100) 1,2,3-trichloropropane | 8.492 | 110 | 2528 | 2.04 | ug/L | | 87 |
| 101) n-propylbenzene | 8.544 | 91 | 31235 | 2.22 | ug/L | | 93 |
| 102) 2-chlorotoluene | 8.640 | 126 | 5747 | 2.03 | ug/L | | 93 |
| 103) 4-chlorotoluene | 8.759 | 126 | 6608 | 2.44 | ug/L | # | 53 |
| 104) 1,3,5-trimethylbenzene | 8.714 | 105 | 21197 | 2.12 | ug/L | | 88 |
| 105) tert-butylbenzene | 9.015 | 119 | 18338 | 2.12 | ug/L | | 97 |
| 106) 1,2,4-trimethylbenzene | 9.076 | 105 | 21473 | 2.15 | ug/L | | 94 |
| 107) sec-butylbenzene | 9.234 | 105 | 25722 | 2.02 | ug/L | | 91 |
| 108) 1,3-dichlorobenzene | 9.359 | 146 | 10174 | 1.91 | ug/L | | 93 |
| 109) p-isopropyltoluene | 9.381 | 119 | 20897 | 2.16 | ug/L | | 94 |
| 110) 1,4-dichlorobenzene | 9.458 | 146 | 10571 | 2.14 | ug/L | | 91 |
| 111) 1,2,3-trimethylbenzene | 9.477 | 105 | 20420 | 2.17 | ug/L | | 92 |
| 112) 1,2-dichlorobenzene | 9.818 | 146 | 10304 | 2.13 | ug/L | | 88 |
| 113) n-butylbenzene | 9.779 | 92 | 9683 | 1.83 | ug/L | | 88 |
| 114) 1,2-dibromo-3-chloropr... | 10.581 | 157 | 2462 | 1.97 | ug/L | | 86 |
| 115) 1,3,5-trichlorobenzene | 10.767 | 180 | 6474 | 1.71 | ug/L | # | 73 |
| 116) 1,2,4-trichlorobenzene | 11.393 | 180 | 5071 | 1.55 | ug/L | | 91 |
| 117) hexachlorobutadiene | 11.528 | 225 | 2428 | 1.91 | ug/L | | 93 |
| 118) naphthalene | 11.663 | 128 | 19305 | 1.85 | ug/L | | 95 |
| 119) 1,2,3-trichlorobenzene | 11.878 | 180 | 5257 | 1.76 | ug/L | | 86 |
| 120) hexachloroethane | 10.078 | 119 | 3164 | 1.57 | ug/L | | 85 |
| 121) benzyl chloride | 9.567 | 91 | 15061 | 1.89 | ug/L | | 90 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348711.D
Acq On : 27 Oct 2022 3:04 am
Operator : PrashanS
Sample : IC10548-2
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 27 19:04:02 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348712.D
Acq On : 27 Oct 2022 3:27 am
Operator : PrashanS
Sample : IC10548-4
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 27 19:04:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.066 | 65 | 279687 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.282 | 168 | 245159 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.850 | 114 | 343111 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.244 | 117 | 302187 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.433 | 152 | 131580 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.282 | 168 | 246007 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.433 | 152 | 131599 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.292 | 113 | 99117 | 46.49 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.98% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.545 | 65 | 120490 | 53.93 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 107.86% | | | | |
| 73) toluene-d8 (s) | 5.996 | 98 | 418100 | 55.54 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 111.08% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.319 | 95 | 145910 | 46.65 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.30% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.280 | 88 | 5292 | 94.78 | ug/L | | 99 |
| 3) ethanol | 2.488 | 45 | 29849 | 389.66 | ug/L | | 100 |
| 4) tertiary butyl alcohol | 3.124 | 59 | 17059 | 19.94 | ug/L | | 96 |
| 6) chlorodifluoromethane | 1.657 | 51 | 18166 | 3.67 | ug/L | # | 96 |
| 7) dichlorodifluoromethane | 1.638 | 85 | 21876 | 3.47 | ug/L | | 91 |
| 8) chloromethane | 1.802 | 50 | 16971 | 3.73 | ug/L | | 90 |
| 9) vinyl chloride | 1.879 | 62 | 17271 | 3.58 | ug/L | | 97 |
| 10) 1,3-butadiene | 1.911 | 54 | 13639 | 4.15 | ug/L | | 98 |
| 11) bromomethane | 2.139 | 96 | 2943 | 2.68 | ug/L | | 86 |
| 12) chloroethane | 2.216 | 64 | 8907 | 3.71 | ug/L | | 87 |
| 13) trichlorofluoromethane | 2.402 | 101 | 18970 | 3.61 | ug/L | | 97 |
| 14) ethyl ether | 2.588 | 74 | 7961 | 3.95 | ug/L | | 87 |
| 15) acrolein | 2.691 | 56 | 3832 | 3.70 | ug/L | | 87 |
| 16) freon 113 | 2.758 | 151 | 9437 | 4.06 | ug/L | | 95 |
| 17) 1,1-dichloroethene | 2.761 | 96 | 11114 | 4.16 | ug/L | | 95 |
| 18) acetone | 2.777 | 58 | 10479 | 15.76 | ug/L | | 99 |
| 19) acetonitrile | 2.967 | 40 | 15764 | 42.65 | ug/L | | 82 |
| 20) iodomethane | 2.877 | 142 | 3457 | 1.85 | ug/L | | 87 |
| 21) iso-butyl alcohol | 4.433 | 43 | 14703 | 47.73 | ug/L | | 90 |
| 22) carbon disulfide | 2.938 | 76 | 36179 | 4.16 | ug/L | | 96 |
| 23) methylene chloride | 3.095 | 84 | 11408 | 3.77 | ug/L | | 85 |
| 24) methyl acetate | 2.983 | 74 | 3623 | 4.00 | ug/L | # | 88 |
| 25) methyl tert butyl ether | 3.262 | 73 | 36630 | 3.96 | ug/L | | 93 |
| 26) trans-1,2-dichloroethene | 3.281 | 96 | 11613 | 4.20 | ug/L | | 93 |
| 27) hexane | 3.454 | 57 | 20445 | 3.97 | ug/L | | 94 |
| 28) di-isopropyl ether | 3.567 | 45 | 43849 | 4.32 | ug/L | | 95 |
| 29) ethyl tert-butyl ether | 3.811 | 59 | 41600 | 4.03 | ug/L | | 90 |
| 30) 2-butanone | 3.936 | 72 | 10636 | 14.87 | ug/L | # | 70 |
| 31) 1,1-dichloroethane | 3.576 | 63 | 22211 | 4.14 | ug/L | | 92 |
| 32) chloroprene | 3.628 | 53 | 19911 | 4.17 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348712.D
Acq On : 27 Oct 2022 3:27 am
Operator : PrashanS
Sample : IC10548-4
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 27 19:04:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 33) acrylonitrile | 3.246 | 53 | 7469 | 3.51 | ug/L | | 86 |
| 34) vinyl acetate | 3.554 | 86 | 2913 | 3.56 | ug/L | # | 84 |
| 35) ethyl acetate | 3.945 | 45 | 3940 | 4.80 | ug/L | # | 56 |
| 36) 2,2-dichloropropane | 3.968 | 77 | 17783 | 4.36 | ug/L | | 96 |
| 37) cis-1,2-dichloroethene | 3.965 | 96 | 12619 | 4.24 | ug/L | | 96 |
| 38) propionitrile | 3.981 | 54 | 33665 | 44.98 | ug/L | | 83 |
| 39) methyl acrylate | 3.981 | 85 | 2927 | 4.29 | ug/L | # | 83 |
| 40) bromochloromethane | 4.131 | 128 | 5538 | 4.09 | ug/L | # | 82 |
| 41) tetrahydrofuran | 4.147 | 72 | 3244 | 4.12 | ug/L | | 85 |
| 42) chloroform | 4.186 | 83 | 21055 | 4.14 | ug/L | | 83 |
| 44) methacrylonitrile | 4.087 | 67 | 7859 | 3.88 | ug/L | | 88 |
| 45) 1,1,1-trichloroethane | 4.327 | 97 | 16346 | 3.79 | ug/L | | 90 |
| 46) cyclohexane | 4.382 | 84 | 18929 | 4.20 | ug/L | | 96 |
| 47) 1,1-dichloropropene | 4.430 | 75 | 15912 | 4.16 | ug/L | | 94 |
| 48) carbon tetrachloride | 4.436 | 117 | 13919 | 4.08 | ug/L | | 93 |
| 49) isopropyl acetate | 4.552 | 87 | 3779 | 4.18 | ug/L | # | 87 |
| 50) tert amyl alcohol | 4.523 | 55 | 5919 | 20.17 | ug/L | | 95 |
| 53) tert-amyl methyl ether | 4.638 | 73 | 36495 | 4.35 | ug/L | | 96 |
| 54) 2,2,4-trimethylpentane | 4.638 | 57 | 41961 | 4.55 | ug/L | | 93 |
| 55) n-butyl alcohol | 4.911 | 56 | 40866 | 210.68 | ug/L | | 100 |
| 56) benzene | 4.577 | 78 | 46433 | 4.38 | ug/L | | 97 |
| 57) heptane | 4.748 | 57 | 8854 | 4.05 | ug/L | | 95 |
| 58) 1,2-dichloroethane | 4.600 | 62 | 15188 | 4.29 | ug/L | | 90 |
| 59) trichloroethene | 5.049 | 95 | 11331 | 3.99 | ug/L | | 96 |
| 60) ethyl acrylate | 5.062 | 55 | 22984 | 4.14 | ug/L | | 94 |
| 61) 2-nitropropane | 5.595 | 41 | 4979 | 3.72 | ug/L | | 89 |
| 62) 2-chloroethyl vinyl ether | 5.627 | 63 | 47031 | 22.56 | ug/L | | 98 |
| 63) methyl methacrylate | 5.242 | 100 | 4586 | 4.29 | ug/L | | 92 |
| 64) 1,2-dichloropropane | 5.245 | 63 | 12300 | 4.24 | ug/L | | 89 |
| 65) methylcyclohexane | 5.232 | 83 | 21656 | 4.19 | ug/L | | 96 |
| 66) dibromomethane | 5.316 | 93 | 6725 | 4.08 | ug/L | | 85 |
| 67) bromodichloromethane | 5.434 | 83 | 15233 | 3.88 | ug/L | | 89 |
| 68) cis-1,3-dichloropropene | 5.771 | 75 | 19269 | 4.00 | ug/L | | 89 |
| 69) epichlorohydrin | 5.678 | 57 | 12670 | 21.70 | ug/L | | 93 |
| 70) 4-methyl-2-pentanone | 5.867 | 58 | 33735 | 17.84 | ug/L | | 94 |
| 71) 3-methyl-1-butanol | 5.893 | 70 | 15666 | 88.77 | ug/L | | 92 |
| 74) toluene | 6.054 | 92 | 27768 | 4.39 | ug/L | | 91 |
| 75) trans-1,3-dichloropropene | 6.220 | 75 | 16716 | 4.09 | ug/L | | 94 |
| 76) ethyl methacrylate | 6.243 | 69 | 19371 | 4.51 | ug/L | | 90 |
| 77) 1,1,2-trichloroethane | 6.391 | 83 | 9037 | 4.11 | ug/L | | 87 |
| 78) 2-hexanone | 6.554 | 58 | 35656 | 19.24 | ug/L | | 93 |
| 79) tetrachloroethene | 6.490 | 166 | 11690 | 4.39 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 6.541 | 76 | 18857 | 4.64 | ug/L | | 98 |
| 81) butyl acetate | 6.644 | 56 | 12472 | 4.60 | ug/L | | 81 |
| 82) dibromochloromethane | 6.724 | 129 | 11687 | 4.51 | ug/L | | 87 |
| 83) 1,2-dibromoethane | 6.846 | 107 | 11203 | 4.13 | ug/L | | 96 |
| 84) n-butyl ether | 7.311 | 57 | 52072 | 4.50 | ug/L | | 94 |
| 85) chlorobenzene | 7.270 | 112 | 27783 | 4.28 | ug/L | | 95 |
| 86) 1,1,1,2-tetrachloroethane | 7.337 | 131 | 10192 | 4.70 | ug/L | | 85 |
| 87) ethylbenzene | 7.344 | 91 | 50917 | 4.72 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348712.D
Acq On : 27 Oct 2022 3:27 am
Operator : PrashanS
Sample : IC10548-4
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 27 19:04:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

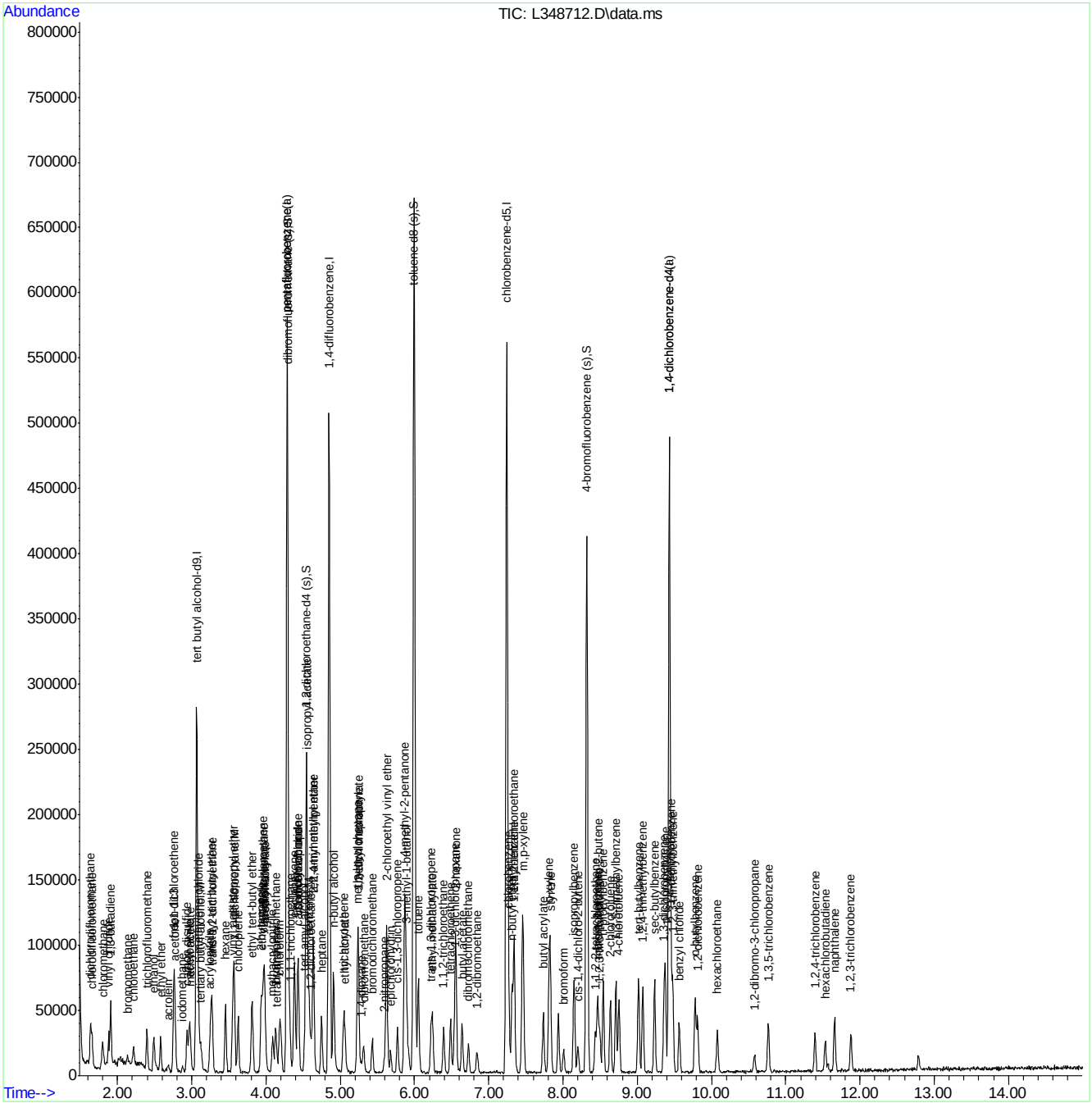
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 88) m,p-xylene | 7.459 | 106 | 39203 | 9.11 | ug/L | | 94 |
| 89) o-xylene | 7.815 | 106 | 20761 | 4.68 | ug/L | | 99 |
| 90) butyl acrylate | 7.735 | 55 | 27949 | 4.15 | ug/L | | 98 |
| 91) styrene | 7.831 | 104 | 32292 | 4.52 | ug/L | | 99 |
| 92) bromoform | 8.008 | 173 | 8428 | 4.17 | ug/L | | 92 |
| 93) isopropylbenzene | 8.149 | 105 | 51865 | 4.52 | ug/L | | 97 |
| 94) cis-1,4-dichloro-2-butene | 8.200 | 88 | 4966 | 3.82 | ug/L | | 90 |
| 97) bromobenzene | 8.467 | 156 | 10966 | 3.77 | ug/L | | 87 |
| 98) 1,1,2,2-tetrachloroethane | 8.435 | 83 | 16581 | 3.77 | ug/L | | 96 |
| 99) trans-1,4-dichloro-2-b... | 8.473 | 53 | 4280 | 3.67 | ug/L | | 90 |
| 100) 1,2,3-trichloropropane | 8.492 | 110 | 4841 | 4.03 | ug/L | | 88 |
| 101) n-propylbenzene | 8.540 | 91 | 55990 | 4.11 | ug/L | | 92 |
| 102) 2-chlorotoluene | 8.643 | 126 | 10765 | 3.92 | ug/L | | 92 |
| 103) 4-chlorotoluene | 8.755 | 126 | 10816 | 4.12 | ug/L | # | 82 |
| 104) 1,3,5-trimethylbenzene | 8.711 | 105 | 39467 | 4.07 | ug/L | | 93 |
| 105) tert-butylbenzene | 9.019 | 119 | 33298 | 3.98 | ug/L | | 93 |
| 106) 1,2,4-trimethylbenzene | 9.073 | 105 | 38903 | 4.01 | ug/L | | 93 |
| 107) sec-butylbenzene | 9.234 | 105 | 50123 | 4.07 | ug/L | | 95 |
| 108) 1,3-dichlorobenzene | 9.362 | 146 | 18859 | 3.66 | ug/L | | 92 |
| 109) p-isopropyltoluene | 9.378 | 119 | 38302 | 4.09 | ug/L | | 94 |
| 110) 1,4-dichlorobenzene | 9.458 | 146 | 18540 | 3.87 | ug/L | | 94 |
| 111) 1,2,3-trimethylbenzene | 9.477 | 105 | 38048 | 4.17 | ug/L | | 95 |
| 112) 1,2-dichlorobenzene | 9.808 | 146 | 18098 | 3.87 | ug/L | | 88 |
| 113) n-butylbenzene | 9.776 | 92 | 18785 | 3.66 | ug/L | | 96 |
| 114) 1,2-dibromo-3-chloropr... | 10.578 | 157 | 4346 | 3.60 | ug/L | # | 76 |
| 115) 1,3,5-trichlorobenzene | 10.767 | 180 | 12822 | 3.51 | ug/L | | 85 |
| 116) 1,2,4-trichlorobenzene | 11.396 | 180 | 9779 | 3.08 | ug/L | | 81 |
| 117) hexachlorobutadiene | 11.538 | 225 | 4633 | 3.77 | ug/L | # | 72 |
| 118) naphthalene | 11.660 | 128 | 34954 | 3.45 | ug/L | | 96 |
| 119) 1,2,3-trichlorobenzene | 11.875 | 180 | 9183 | 3.18 | ug/L | | 92 |
| 120) hexachloroethane | 10.071 | 119 | 6873 | 3.53 | ug/L | # | 66 |
| 121) benzyl chloride | 9.567 | 91 | 28347 | 3.68 | ug/L | | 96 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348712.D
Acq On : 27 Oct 2022 3:27 am
Operator : PrashanS
Sample : IC10548-4
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 27 19:04:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348713.D
Acq On : 27 Oct 2022 3:50 am
Operator : PrashanS
Sample : IC10548-8
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 08:49:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.060 | 65 | 251783 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.279 | 168 | 239569 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.847 | 114 | 336556 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.241 | 117 | 298907 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.433 | 152 | 125181 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.279 | 168 | 239853 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.433 | 152 | 125145 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.289 | 113 | 98002 | 47.04 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.08% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.542 | 65 | 121155 | 55.28 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 110.56% | | | | |
| 73) toluene-d8 (s) | 5.993 | 98 | 409644 | 55.02 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 110.04% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.319 | 95 | 144151 | 48.44 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.88% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.277 | 88 | 9519 | 189.38 | ug/L | | 87 |
| 3) ethanol | 2.489 | 45 | 54018 | 783.31 | ug/L | | 94 |
| 4) tertiary butyl alcohol | 3.118 | 59 | 30435 | 39.51 | ug/L | | 97 |
| 6) chlorodifluoromethane | 1.657 | 51 | 36555 | 7.57 | ug/L | # | 92 |
| 7) dichlorodifluoromethane | 1.638 | 85 | 43224 | 7.02 | ug/L | | 98 |
| 8) chloromethane | 1.799 | 50 | 32152 | 7.22 | ug/L | | 98 |
| 9) vinyl chloride | 1.879 | 62 | 35028 | 7.44 | ug/L | | 98 |
| 10) 1,3-butadiene | 1.911 | 54 | 26650 | 8.29 | ug/L | | 90 |
| 11) bromomethane | 2.132 | 96 | 5954 | 5.56 | ug/L | | 95 |
| 12) chloroethane | 2.216 | 64 | 17344 | 7.40 | ug/L | | 90 |
| 13) trichlorofluoromethane | 2.396 | 101 | 38016 | 7.41 | ug/L | | 96 |
| 14) ethyl ether | 2.578 | 74 | 14951 | 7.58 | ug/L | | 93 |
| 15) acrolein | 2.681 | 56 | 7388 | 7.29 | ug/L | | 98 |
| 16) freon 113 | 2.755 | 151 | 17242 | 7.59 | ug/L | | 96 |
| 17) 1,1-dichloroethene | 2.758 | 96 | 21216 | 8.13 | ug/L | | 90 |
| 18) acetone | 2.768 | 58 | 20511 | 31.57 | ug/L | | 86 |
| 19) acetonitrile | 2.964 | 40 | 28278 | 78.29 | ug/L | | 92 |
| 20) iodomethane | 2.874 | 142 | 8561 | 4.69 | ug/L | | 87 |
| 21) iso-butyl alcohol | 4.433 | 43 | 25586 | 85.00 | ug/L | | 90 |
| 22) carbon disulfide | 2.935 | 76 | 70370 | 8.28 | ug/L | | 98 |
| 23) methylene chloride | 3.085 | 84 | 23093 | 7.80 | ug/L | | 99 |
| 24) methyl acetate | 2.980 | 74 | 6701 | 7.57 | ug/L | | 88 |
| 25) methyl tert butyl ether | 3.256 | 73 | 73383 | 8.12 | ug/L | | 99 |
| 26) trans-1,2-dichloroethene | 3.275 | 96 | 21844 | 8.08 | ug/L | | 94 |
| 27) hexane | 3.448 | 57 | 40015 | 7.95 | ug/L | | 97 |
| 28) di-isopropyl ether | 3.560 | 45 | 83884 | 8.46 | ug/L | | 98 |
| 29) ethyl tert-butyl ether | 3.807 | 59 | 80657 | 7.99 | ug/L | | 96 |
| 30) 2-butanone | 3.929 | 72 | 21015 | 30.06 | ug/L | | 90 |
| 31) 1,1-dichloroethane | 3.570 | 63 | 45508 | 8.68 | ug/L | | 94 |
| 32) chloroprene | 3.618 | 53 | 38746 | 8.31 | ug/L | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348713.D
Acq On : 27 Oct 2022 3:50 am
Operator : PrashanS
Sample : IC10548-8
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 08:49:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 33) acrylonitrile | 3.236 | 53 | 15826 | 7.62 | ug/L | | 96 |
| 34) vinyl acetate | 3.544 | 86 | 6073 | 7.60 | ug/L | # | 54 |
| 35) ethyl acetate | 3.939 | 45 | 7082 | 8.82 | ug/L | # | 68 |
| 36) 2,2-dichloropropane | 3.968 | 77 | 34905 | 8.76 | ug/L | | 94 |
| 37) cis-1,2-dichloroethene | 3.958 | 96 | 25391 | 8.73 | ug/L | | 81 |
| 38) propionitrile | 3.978 | 54 | 63808 | 87.25 | ug/L | | 95 |
| 39) methyl acrylate | 3.981 | 85 | 5994 | 9.00 | ug/L | | 96 |
| 40) bromochloromethane | 4.122 | 128 | 10763 | 8.13 | ug/L | | 95 |
| 41) tetrahydrofuran | 4.138 | 72 | 5942 | 7.72 | ug/L | # | 76 |
| 42) chloroform | 4.176 | 83 | 40540 | 8.16 | ug/L | | 97 |
| 44) methacrylonitrile | 4.087 | 67 | 15612 | 7.88 | ug/L | | 100 |
| 45) 1,1,1-trichloroethane | 4.318 | 97 | 33063 | 7.84 | ug/L | | 96 |
| 46) cyclohexane | 4.375 | 84 | 36935 | 8.40 | ug/L | | 97 |
| 47) 1,1-dichloropropene | 4.424 | 75 | 32380 | 8.65 | ug/L | | 92 |
| 48) carbon tetrachloride | 4.433 | 117 | 27786 | 8.33 | ug/L | | 97 |
| 49) isopropyl acetate | 4.542 | 87 | 6887 | 7.79 | ug/L | # | 88 |
| 50) tert amyl alcohol | 4.520 | 55 | 12188 | 42.51 | ug/L | | 94 |
| 53) tert-amyl methyl ether | 4.635 | 73 | 73883 | 8.97 | ug/L | | 95 |
| 54) 2,2,4-trimethylpentane | 4.635 | 57 | 81579 | 9.02 | ug/L | | 95 |
| 55) n-butyl alcohol | 4.902 | 56 | 75555 | 397.11 | ug/L | | 93 |
| 56) benzene | 4.574 | 78 | 92305 | 8.89 | ug/L | | 98 |
| 57) heptane | 4.744 | 57 | 17565 | 8.19 | ug/L | | 96 |
| 58) 1,2-dichloroethane | 4.597 | 62 | 30192 | 8.69 | ug/L | | 92 |
| 59) trichloroethene | 5.043 | 95 | 21712 | 7.79 | ug/L | | 96 |
| 60) ethyl acrylate | 5.062 | 55 | 46191 | 8.49 | ug/L | | 95 |
| 61) 2-nitropropane | 5.592 | 41 | 11059 | 8.43 | ug/L | | 87 |
| 62) 2-chloroethyl vinyl ether | 5.620 | 63 | 87578 | 42.82 | ug/L | | 97 |
| 63) methyl methacrylate | 5.242 | 100 | 8498 | 8.10 | ug/L | # | 89 |
| 64) 1,2-dichloropropane | 5.242 | 63 | 25620 | 9.00 | ug/L | | 84 |
| 65) methylcyclohexane | 5.229 | 83 | 42971 | 8.48 | ug/L | | 96 |
| 66) dibromomethane | 5.309 | 93 | 13810 | 8.54 | ug/L | | 86 |
| 67) bromodichloromethane | 5.425 | 83 | 31721 | 8.24 | ug/L | | 97 |
| 68) cis-1,3-dichloropropene | 5.768 | 75 | 40417 | 8.55 | ug/L | | 95 |
| 69) epichlorohydrin | 5.672 | 57 | 24528 | 42.82 | ug/L | | 93 |
| 70) 4-methyl-2-pentanone | 5.868 | 58 | 65651 | 35.40 | ug/L | | 94 |
| 71) 3-methyl-1-butanol | 5.887 | 70 | 28958 | 167.28 | ug/L | | 98 |
| 74) toluene | 6.047 | 92 | 54999 | 8.79 | ug/L | | 92 |
| 75) trans-1,3-dichloropropene | 6.224 | 75 | 34996 | 8.65 | ug/L | | 94 |
| 76) ethyl methacrylate | 6.243 | 69 | 37836 | 8.91 | ug/L | | 87 |
| 77) 1,1,2-trichloroethane | 6.394 | 83 | 18629 | 8.57 | ug/L | | 95 |
| 78) 2-hexanone | 6.554 | 58 | 68529 | 37.39 | ug/L | | 92 |
| 79) tetrachloroethene | 6.487 | 166 | 21988 | 8.35 | ug/L | | 95 |
| 80) 1,3-dichloropropane | 6.538 | 76 | 35164 | 8.75 | ug/L | | 99 |
| 81) butyl acetate | 6.638 | 56 | 24130 | 9.00 | ug/L | | 96 |
| 82) dibromochloromethane | 6.724 | 129 | 22095 | 8.61 | ug/L | | 97 |
| 83) 1,2-dibromoethane | 6.843 | 107 | 22884 | 8.52 | ug/L | | 95 |
| 84) n-butyl ether | 7.312 | 57 | 103808 | 9.06 | ug/L | | 98 |
| 85) chlorobenzene | 7.267 | 112 | 54117 | 8.43 | ug/L | | 97 |
| 86) 1,1,1,2-tetrachloroethane | 7.337 | 131 | 18996 | 8.85 | ug/L | | 92 |
| 87) ethylbenzene | 7.344 | 91 | 99820 | 9.35 | ug/L | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348713.D
Acq On : 27 Oct 2022 3:50 am
Operator : PrashanS
Sample : IC10548-8
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 08:49:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

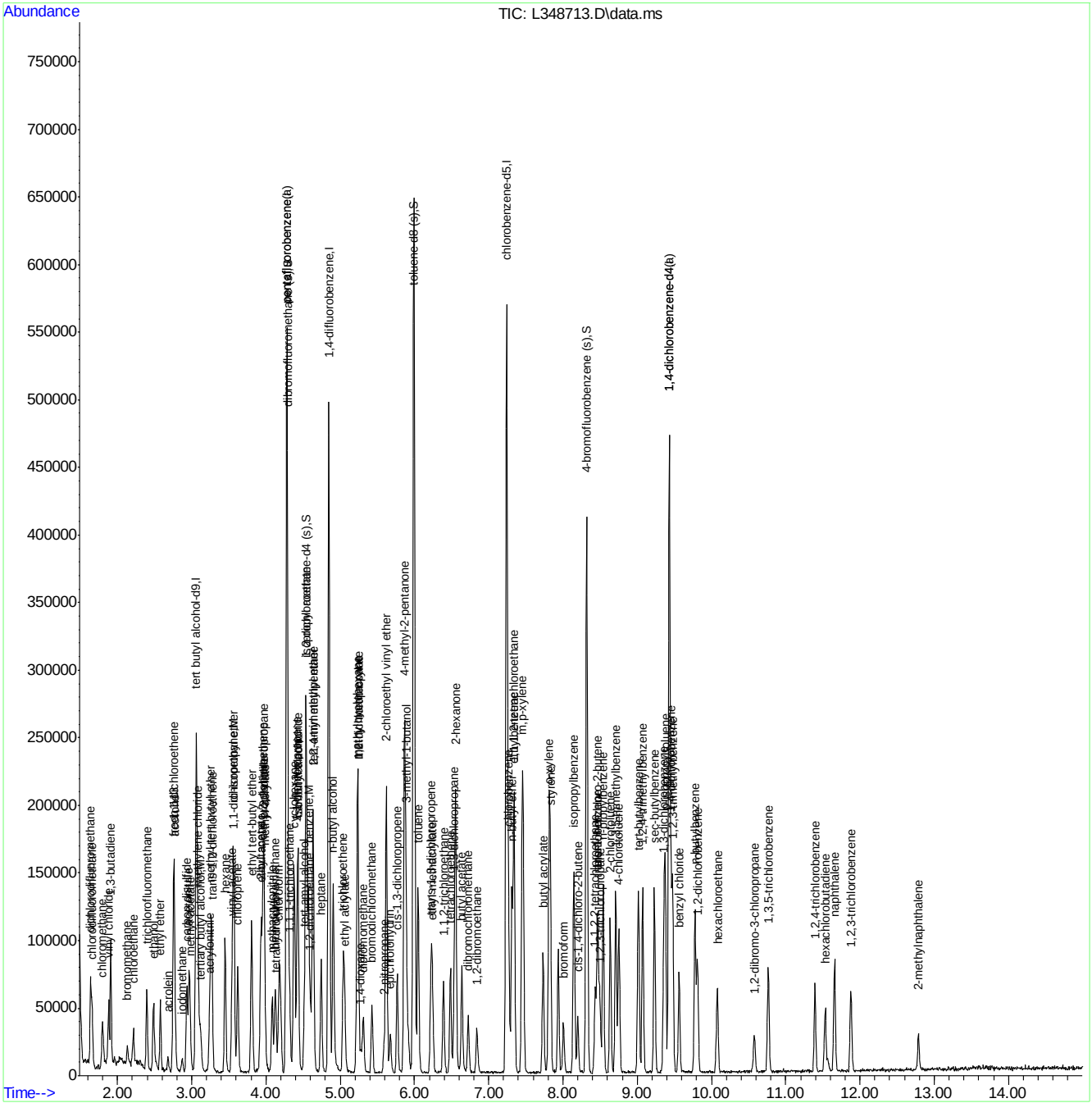
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 88) m,p-xylene | 7.453 | 106 | 79607 | 18.70 | ug/L | 92 |
| 89) o-xylene | 7.812 | 106 | 40560 | 9.25 | ug/L | 95 |
| 90) butyl acrylate | 7.732 | 55 | 55986 | 8.41 | ug/L | 96 |
| 91) styrene | 7.831 | 104 | 64513 | 9.12 | ug/L | 98 |
| 92) bromoform | 8.005 | 173 | 17126 | 8.57 | ug/L | 98 |
| 93) isopropylbenzene | 8.146 | 105 | 103550 | 9.12 | ug/L | 96 |
| 94) cis-1,4-dichloro-2-butene | 8.200 | 88 | 10080 | 7.83 | ug/L | 96 |
| 97) bromobenzene | 8.464 | 156 | 21984 | 7.95 | ug/L | 96 |
| 98) 1,1,2,2-tetrachloroethane | 8.431 | 83 | 33951 | 8.11 | ug/L | 96 |
| 99) trans-1,4-dichloro-2-b... | 8.470 | 53 | 8165 | 7.35 | ug/L | 99 |
| 100) 1,2,3-trichloropropane | 8.502 | 110 | 9483 | 8.31 | ug/L | 84 |
| 101) n-propylbenzene | 8.544 | 91 | 111946 | 8.63 | ug/L | 97 |
| 102) 2-chlorotoluene | 8.637 | 126 | 20915 | 8.01 | ug/L | 91 |
| 103) 4-chlorotoluene | 8.752 | 126 | 20757 | 8.31 | ug/L | 94 |
| 104) 1,3,5-trimethylbenzene | 8.711 | 105 | 76026 | 8.23 | ug/L | 98 |
| 105) tert-butylbenzene | 9.019 | 119 | 66989 | 8.41 | ug/L | 96 |
| 106) 1,2,4-trimethylbenzene | 9.073 | 105 | 78786 | 8.55 | ug/L | 99 |
| 107) sec-butylbenzene | 9.230 | 105 | 98286 | 8.38 | ug/L | 96 |
| 108) 1,3-dichlorobenzene | 9.362 | 146 | 39420 | 8.04 | ug/L | 96 |
| 109) p-isopropyltoluene | 9.375 | 119 | 75913 | 8.53 | ug/L | 95 |
| 110) 1,4-dichlorobenzene | 9.455 | 146 | 35757 | 7.84 | ug/L | 96 |
| 111) 1,2,3-trimethylbenzene | 9.478 | 105 | 73877 | 8.50 | ug/L | 93 |
| 112) 1,2-dichlorobenzene | 9.808 | 146 | 36642 | 8.23 | ug/L | 94 |
| 113) n-butylbenzene | 9.779 | 92 | 38014 | 7.79 | ug/L | 97 |
| 114) 1,2-dibromo-3-chloropr... | 10.581 | 157 | 8236 | 7.17 | ug/L | 90 |
| 115) 1,3,5-trichlorobenzene | 10.764 | 180 | 25735 | 7.40 | ug/L | 94 |
| 116) 1,2,4-trichlorobenzene | 11.393 | 180 | 20692 | 6.86 | ug/L | 89 |
| 117) hexachlorobutadiene | 11.535 | 225 | 9198 | 7.87 | ug/L | 87 |
| 118) naphthalene | 11.656 | 128 | 70433 | 7.31 | ug/L | 97 |
| 119) 1,2,3-trichlorobenzene | 11.878 | 180 | 19588 | 7.13 | ug/L | 94 |
| 120) hexachloroethane | 10.081 | 119 | 14535 | 7.84 | ug/L | 95 |
| 121) benzyl chloride | 9.564 | 91 | 54158 | 7.38 | ug/L | 98 |
| 122) 2-methylnaphthalene | 12.789 | 142 | 13415 | 2.73 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348713.D
Acq On : 27 Oct 2022 3:50 am
Operator : PrashanS
Sample : IC10548-8
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 08:49:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348714.D
Acq On : 27 Oct 2022 4:14 am
Operator : PrashanS
Sample : IC10548-20
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 08:57:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.060 | 65 | 253373 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.282 | 168 | 223344 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.847 | 114 | 324550 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.241 | 117 | 297358 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.433 | 152 | 121279 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.282 | 168 | 223265 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.433 | 152 | 121315 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.289 | 113 | 94399 | 48.60 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.20% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.539 | 65 | 112624 | 53.29 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 106.58% | | | | |
| 73) toluene-d8 (s) | 5.993 | 98 | 385621 | 52.06 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.12% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.319 | 95 | 141705 | 49.15 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.30% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.277 | 88 | 24000 | 474.49 | ug/L | | 92 |
| 3) ethanol | 2.482 | 45 | 133011 | 1916.69 | ug/L | | 99 |
| 4) tertiary butyl alcohol | 3.117 | 59 | 75291 | 97.12 | ug/L | | 95 |
| 6) chlorodifluoromethane | 1.657 | 51 | 86404 | 19.19 | ug/L | # | 99 |
| 7) dichlorodifluoromethane | 1.638 | 85 | 104915 | 18.28 | ug/L | | 97 |
| 8) chloromethane | 1.799 | 50 | 78135 | 18.83 | ug/L | | 99 |
| 9) vinyl chloride | 1.879 | 62 | 83649 | 19.05 | ug/L | | 96 |
| 10) 1,3-butadiene | 1.908 | 54 | 61521 | 20.53 | ug/L | | 95 |
| 11) bromomethane | 2.132 | 96 | 17422 | 17.44 | ug/L | | 89 |
| 12) chloroethane | 2.212 | 64 | 43011 | 19.67 | ug/L | | 98 |
| 13) trichlorofluoromethane | 2.392 | 101 | 90091 | 18.83 | ug/L | | 99 |
| 14) ethyl ether | 2.578 | 74 | 35772 | 19.46 | ug/L | | 93 |
| 15) acrolein | 2.681 | 56 | 17278 | 18.29 | ug/L | | 91 |
| 16) freon 113 | 2.752 | 151 | 42759 | 20.19 | ug/L | | 96 |
| 17) 1,1-dichloroethene | 2.758 | 96 | 49798 | 20.48 | ug/L | | 98 |
| 18) acetone | 2.768 | 58 | 48748 | 80.48 | ug/L | | 97 |
| 19) acetonitrile | 2.960 | 40 | 66647 | 197.92 | ug/L | | 89 |
| 20) iodomethane | 2.874 | 142 | 25597 | 15.03 | ug/L | | 93 |
| 21) iso-butyl alcohol | 4.430 | 43 | 57035 | 203.24 | ug/L | | 100 |
| 22) carbon disulfide | 2.931 | 76 | 157655 | 19.89 | ug/L | | 99 |
| 23) methylene chloride | 3.089 | 84 | 53625 | 19.43 | ug/L | | 97 |
| 24) methyl acetate | 2.976 | 74 | 16808 | 20.36 | ug/L | # | 84 |
| 25) methyl tert butyl ether | 3.255 | 73 | 175084 | 20.79 | ug/L | | 97 |
| 26) trans-1,2-dichloroethene | 3.271 | 96 | 51821 | 20.56 | ug/L | | 96 |
| 27) hexane | 3.448 | 57 | 91836 | 19.56 | ug/L | | 97 |
| 28) di-isopropyl ether | 3.560 | 45 | 194533 | 21.04 | ug/L | | 97 |
| 29) ethyl tert-butyl ether | 3.807 | 59 | 194064 | 20.63 | ug/L | | 97 |
| 30) 2-butanone | 3.926 | 72 | 53255 | 81.71 | ug/L | | 96 |
| 31) 1,1-dichloroethane | 3.567 | 63 | 100221 | 20.50 | ug/L | | 98 |
| 32) chloroprene | 3.624 | 53 | 88946 | 20.46 | ug/L | | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348714.D
Acq On : 27 Oct 2022 4:14 am
Operator : PrashanS
Sample : IC10548-20
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 08:57:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 33) acrylonitrile | 3.233 | 53 | 37068 | 19.14 | ug/L | | 88 |
| 34) vinyl acetate | 3.541 | 86 | 15084 | 20.25 | ug/L | # | 93 |
| 35) ethyl acetate | 3.936 | 45 | 15487 | 20.69 | ug/L | # | 58 |
| 36) 2,2-dichloropropane | 3.965 | 77 | 79600 | 21.42 | ug/L | | 97 |
| 37) cis-1,2-dichloroethene | 3.955 | 96 | 55558 | 20.49 | ug/L | | 95 |
| 38) propionitrile | 3.974 | 54 | 143010 | 209.76 | ug/L | | 97 |
| 39) methyl acrylate | 3.977 | 85 | 12598 | 20.29 | ug/L | # | 75 |
| 40) bromochloromethane | 4.122 | 128 | 25087 | 20.32 | ug/L | | 96 |
| 41) tetrahydrofuran | 4.131 | 72 | 14525 | 20.23 | ug/L | | 91 |
| 42) chloroform | 4.176 | 83 | 94011 | 20.30 | ug/L | | 94 |
| 44) methacrylonitrile | 4.083 | 67 | 36064 | 19.53 | ug/L | | 89 |
| 45) 1,1,1-trichloroethane | 4.314 | 97 | 78412 | 19.95 | ug/L | | 90 |
| 46) cyclohexane | 4.378 | 84 | 84444 | 20.59 | ug/L | | 96 |
| 47) 1,1-dichloropropene | 4.423 | 75 | 71941 | 20.62 | ug/L | | 98 |
| 48) carbon tetrachloride | 4.430 | 117 | 64280 | 20.66 | ug/L | | 90 |
| 49) isopropyl acetate | 4.545 | 87 | 17010 | 20.63 | ug/L | # | 87 |
| 50) tert amyl alcohol | 4.520 | 55 | 27706 | 103.65 | ug/L | | 93 |
| 53) tert-amyl methyl ether | 4.632 | 73 | 167818 | 21.13 | ug/L | | 98 |
| 54) 2,2,4-trimethylpentane | 4.635 | 57 | 183601 | 21.06 | ug/L | | 96 |
| 55) n-butyl alcohol | 4.905 | 56 | 180849 | 985.68 | ug/L | | 98 |
| 56) benzene | 4.571 | 78 | 211155 | 21.08 | ug/L | | 99 |
| 57) heptane | 4.741 | 57 | 40337 | 19.51 | ug/L | | 93 |
| 58) 1,2-dichloroethane | 4.597 | 62 | 70300 | 20.97 | ug/L | | 97 |
| 59) trichloroethene | 5.040 | 95 | 53837 | 20.04 | ug/L | | 95 |
| 60) ethyl acrylate | 5.056 | 55 | 107080 | 20.41 | ug/L | | 97 |
| 61) 2-nitropropane | 5.591 | 41 | 25118 | 19.85 | ug/L | | 96 |
| 62) 2-chloroethyl vinyl ether | 5.620 | 63 | 202231 | 102.54 | ug/L | | 96 |
| 63) methyl methacrylate | 5.242 | 100 | 20671 | 20.44 | ug/L | # | 89 |
| 64) 1,2-dichloropropane | 5.238 | 63 | 57383 | 20.89 | ug/L | | 95 |
| 65) methylcyclohexane | 5.229 | 83 | 96363 | 19.71 | ug/L | | 99 |
| 66) dibromomethane | 5.309 | 93 | 32201 | 20.64 | ug/L | | 97 |
| 67) bromodichloromethane | 5.428 | 83 | 74555 | 20.09 | ug/L | | 99 |
| 68) cis-1,3-dichloropropene | 5.765 | 75 | 93885 | 20.59 | ug/L | | 97 |
| 69) epichlorohydrin | 5.675 | 57 | 56180 | 101.71 | ug/L | | 93 |
| 70) 4-methyl-2-pentanone | 5.864 | 58 | 148670 | 83.12 | ug/L | | 90 |
| 71) 3-methyl-1-butanol | 5.887 | 70 | 68017 | 407.45 | ug/L | | 96 |
| 74) toluene | 6.047 | 92 | 127034 | 20.41 | ug/L | | 92 |
| 75) trans-1,3-dichloropropene | 6.217 | 75 | 83534 | 20.75 | ug/L | | 98 |
| 76) ethyl methacrylate | 6.240 | 69 | 88072 | 20.85 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 6.394 | 83 | 44396 | 20.53 | ug/L | | 92 |
| 78) 2-hexanone | 6.554 | 58 | 161932 | 88.81 | ug/L | | 99 |
| 79) tetrachloroethene | 6.484 | 166 | 53376 | 20.37 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 6.535 | 76 | 87887 | 21.97 | ug/L | | 95 |
| 81) butyl acetate | 6.638 | 56 | 56189 | 21.07 | ug/L | | 96 |
| 82) dibromochloromethane | 6.724 | 129 | 53637 | 21.02 | ug/L | | 100 |
| 83) 1,2-dibromoethane | 6.843 | 107 | 53212 | 19.92 | ug/L | | 97 |
| 84) n-butyl ether | 7.311 | 57 | 248174 | 21.77 | ug/L | | 97 |
| 85) chlorobenzene | 7.270 | 112 | 131439 | 20.59 | ug/L | | 95 |
| 86) 1,1,1,2-tetrachloroethane | 7.340 | 131 | 45658 | 21.39 | ug/L | | 99 |
| 87) ethylbenzene | 7.340 | 91 | 235474 | 22.16 | ug/L | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348714.D
Acq On : 27 Oct 2022 4:14 am
Operator : PrashanS
Sample : IC10548-20
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 08:57:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

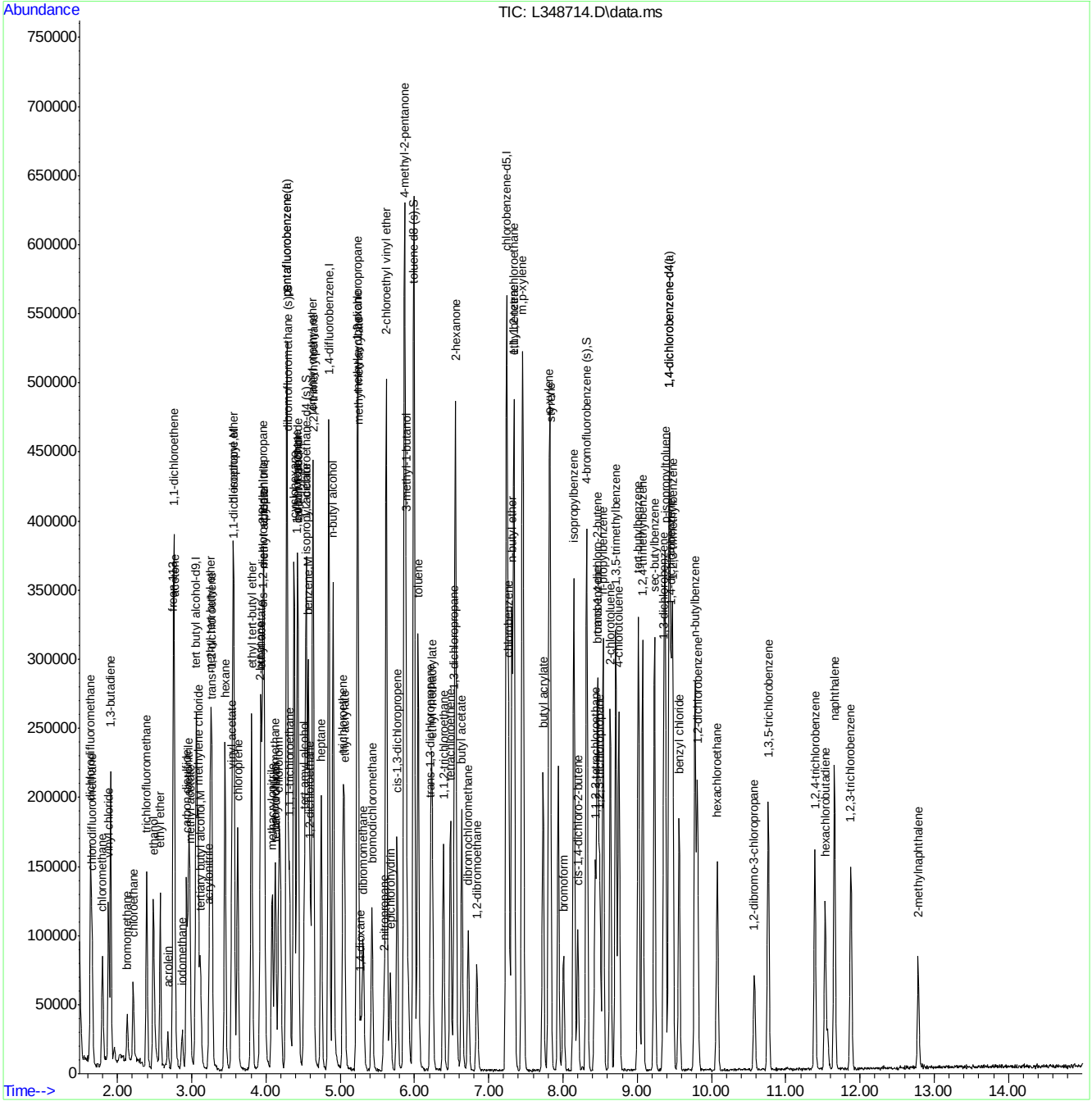
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 88) m,p-xylene | 7.456 | 106 | 179599 | 42.40 | ug/L | 98 |
| 89) o-xylene | 7.815 | 106 | 89515 | 20.52 | ug/L | 97 |
| 90) butyl acrylate | 7.732 | 55 | 139329 | 21.05 | ug/L | 97 |
| 91) styrene | 7.828 | 104 | 150770 | 21.42 | ug/L | 96 |
| 92) bromoform | 8.008 | 173 | 40020 | 20.12 | ug/L | 92 |
| 93) isopropylbenzene | 8.149 | 105 | 237639 | 21.03 | ug/L | 99 |
| 94) cis-1,4-dichloro-2-butene | 8.200 | 88 | 25736 | 20.10 | ug/L | 91 |
| 97) bromobenzene | 8.463 | 156 | 53398 | 19.94 | ug/L | 95 |
| 98) 1,1,2,2-tetrachloroethane | 8.435 | 83 | 80371 | 19.82 | ug/L | 98 |
| 99) trans-1,4-dichloro-2-b... | 8.467 | 53 | 20792 | 19.33 | ug/L | 90 |
| 100) 1,2,3-trichloropropane | 8.492 | 110 | 22246 | 20.11 | ug/L | 89 |
| 101) n-propylbenzene | 8.540 | 91 | 254174 | 20.22 | ug/L | 96 |
| 102) 2-chlorotoluene | 8.637 | 126 | 49915 | 19.73 | ug/L | 93 |
| 103) 4-chlorotoluene | 8.752 | 126 | 49206 | 20.34 | ug/L | 99 |
| 104) 1,3,5-trimethylbenzene | 8.711 | 105 | 180979 | 20.23 | ug/L | 100 |
| 105) tert-butylbenzene | 9.015 | 119 | 154776 | 20.05 | ug/L | 96 |
| 106) 1,2,4-trimethylbenzene | 9.076 | 105 | 180752 | 20.24 | ug/L | 98 |
| 107) sec-butylbenzene | 9.234 | 105 | 228063 | 20.07 | ug/L | 98 |
| 108) 1,3-dichlorobenzene | 9.359 | 146 | 95229 | 20.05 | ug/L | 97 |
| 109) p-isopropyltoluene | 9.378 | 119 | 174854 | 20.28 | ug/L | 95 |
| 110) 1,4-dichlorobenzene | 9.458 | 146 | 87996 | 19.91 | ug/L | 97 |
| 111) 1,2,3-trimethylbenzene | 9.477 | 105 | 174654 | 20.75 | ug/L | 98 |
| 112) 1,2-dichlorobenzene | 9.808 | 146 | 86868 | 20.14 | ug/L | 97 |
| 113) n-butylbenzene | 9.779 | 92 | 91871 | 19.43 | ug/L | 99 |
| 114) 1,2-dibromo-3-chloropr... | 10.575 | 157 | 20273 | 18.21 | ug/L | 93 |
| 115) 1,3,5-trichlorobenzene | 10.764 | 180 | 63458 | 18.82 | ug/L | 95 |
| 116) 1,2,4-trichlorobenzene | 11.396 | 180 | 52743 | 18.04 | ug/L | 89 |
| 117) hexachlorobutadiene | 11.531 | 225 | 22947 | 20.26 | ug/L | 96 |
| 118) naphthalene | 11.656 | 128 | 181860 | 19.47 | ug/L | 99 |
| 119) 1,2,3-trichlorobenzene | 11.874 | 180 | 49090 | 18.46 | ug/L | 97 |
| 120) hexachloroethane | 10.078 | 119 | 33978 | 18.92 | ug/L | 94 |
| 121) benzyl chloride | 9.561 | 91 | 139257 | 19.60 | ug/L | 99 |
| 122) 2-methylnaphthalene | 12.786 | 142 | 40080 | 8.41 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348714.D
Acq On : 27 Oct 2022 4:14 am
Operator : PrashanS
Sample : IC10548-20
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 08:57:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348715.D
Acq On : 27 Oct 2022 4:37 am
Operator : PrashanS
Sample : ICC10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 08:57:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.060 | 65 | 246731 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.279 | 168 | 216854 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.847 | 114 | 317373 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.241 | 117 | 303269 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.429 | 152 | 120454 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.279 | 168 | 216067 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.429 | 152 | 120452 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.289 | 113 | 94301 | 50.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.539 | 65 | 103334 | 50.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.00% | | | | |
| 73) toluene-d8 (s) | 5.989 | 98 | 377732 | 50.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.316 | 95 | 143167 | 50.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.277 | 88 | 61568 | 1250.00 | ug/L | | 100 |
| 3) ethanol | 2.485 | 45 | 337886 | 5000.00 | ug/L | | 100 |
| 4) tertiary butyl alcohol | 3.118 | 59 | 188721 | 250.00 | ug/L | | 100 |
| 6) chlorodifluoromethane | 1.654 | 51 | 218639 | 50.00 | ug/L | # | 100 |
| 7) dichlorodifluoromethane | 1.635 | 85 | 278580 | 50.00 | ug/L | | 100 |
| 8) chloromethane | 1.795 | 50 | 201474 | 50.00 | ug/L | | 100 |
| 9) vinyl chloride | 1.879 | 62 | 213116 | 50.00 | ug/L | | 100 |
| 10) 1,3-butadiene | 1.908 | 54 | 145446 | 50.00 | ug/L | | 100 |
| 11) bromomethane | 2.126 | 96 | 48499 | 50.00 | ug/L | | 100 |
| 12) chloroethane | 2.209 | 64 | 106145 | 50.00 | ug/L | | 100 |
| 13) trichlorofluoromethane | 2.392 | 101 | 232214 | 50.00 | ug/L | | 100 |
| 14) ethyl ether | 2.578 | 74 | 89232 | 50.00 | ug/L | | 100 |
| 15) acrolein | 2.681 | 56 | 45849 | 50.00 | ug/L | | 100 |
| 16) freon 113 | 2.748 | 151 | 102832 | 50.00 | ug/L | | 100 |
| 17) 1,1-dichloroethene | 2.758 | 96 | 118041 | 50.00 | ug/L | | 100 |
| 18) acetone | 2.768 | 58 | 117625 | 200.00 | ug/L | | 100 |
| 19) acetonitrile | 2.960 | 40 | 163475 | 500.00 | ug/L | | 100 |
| 20) iodomethane | 2.870 | 142 | 82656 | 50.00 | ug/L | | 100 |
| 21) iso-butyl alcohol | 4.427 | 43 | 136235 | 500.00 | ug/L | | 100 |
| 22) carbon disulfide | 2.931 | 76 | 384754 | 50.00 | ug/L | | 100 |
| 23) methylene chloride | 3.089 | 84 | 134007 | 50.00 | ug/L | | 100 |
| 24) methyl acetate | 2.973 | 74 | 40082 | 50.00 | ug/L | | 100 |
| 25) methyl tert butyl ether | 3.252 | 73 | 408857 | 50.00 | ug/L | | 100 |
| 26) trans-1,2-dichloroethene | 3.272 | 96 | 122355 | 50.00 | ug/L | | 100 |
| 27) hexane | 3.448 | 57 | 227933 | 50.00 | ug/L | | 100 |
| 28) di-isopropyl ether | 3.560 | 45 | 448892 | 50.00 | ug/L | | 100 |
| 29) ethyl tert-butyl ether | 3.807 | 59 | 456634 | 50.00 | ug/L | | 100 |
| 30) 2-butanone | 3.926 | 72 | 126563 | 200.00 | ug/L | | 100 |
| 31) 1,1-dichloroethane | 3.567 | 63 | 237317 | 50.00 | ug/L | | 100 |
| 32) chloroprene | 3.618 | 53 | 211062 | 50.00 | ug/L | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348715.D
Acq On : 27 Oct 2022 4:37 am
Operator : PrashanS
Sample : ICC10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 08:57:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 33) acrylonitrile | 3.233 | 53 | 94014 | 50.00 | ug/L | 100 |
| 34) vinyl acetate | 3.541 | 86 | 36156 | 50.00 | ug/L | 100 |
| 35) ethyl acetate | 3.939 | 45 | 36332 | 50.00 | ug/L | 100 |
| 36) 2,2-dichloropropane | 3.965 | 77 | 180413 | 50.00 | ug/L | 100 |
| 37) cis-1,2-dichloroethene | 3.952 | 96 | 131614 | 50.00 | ug/L | 100 |
| 38) propionitrile | 3.974 | 54 | 330982 | 500.00 | ug/L | 100 |
| 39) methyl acrylate | 3.984 | 85 | 30145 | 50.00 | ug/L | 100 |
| 40) bromochloromethane | 4.122 | 128 | 59935 | 50.00 | ug/L | 100 |
| 41) tetrahydrofuran | 4.132 | 72 | 34849 | 50.00 | ug/L | 100 |
| 42) chloroform | 4.176 | 83 | 224821 | 50.00 | ug/L | 100 |
| 44) methacrylonitrile | 4.083 | 67 | 89642 | 50.00 | ug/L | 100 |
| 45) 1,1,1-trichloroethane | 4.318 | 97 | 190786 | 50.00 | ug/L | 100 |
| 46) cyclohexane | 4.375 | 84 | 199121 | 50.00 | ug/L | 100 |
| 47) 1,1-dichloropropene | 4.420 | 75 | 169354 | 50.00 | ug/L | 100 |
| 48) carbon tetrachloride | 4.430 | 117 | 151039 | 50.00 | ug/L | 100 |
| 49) isopropyl acetate | 4.545 | 87 | 40025 | 50.00 | ug/L | 100 |
| 50) tert amyl alcohol | 4.520 | 55 | 64884 | 250.00 | ug/L | 100 |
| 53) tert-amyl methyl ether | 4.629 | 73 | 388384 | 50.00 | ug/L | 100 |
| 54) 2,2,4-trimethylpentane | 4.632 | 57 | 426203 | 50.00 | ug/L | 100 |
| 55) n-butyl alcohol | 4.905 | 56 | 448546 | 2500.00 | ug/L | 100 |
| 56) benzene | 4.571 | 78 | 489783 | 50.00 | ug/L | 100 |
| 57) heptane | 4.741 | 57 | 101088 | 50.00 | ug/L | 100 |
| 58) 1,2-dichloroethane | 4.594 | 62 | 163885 | 50.00 | ug/L | 100 |
| 59) trichloroethene | 5.040 | 95 | 131340 | 50.00 | ug/L | 100 |
| 60) ethyl acrylate | 5.056 | 55 | 256581 | 50.00 | ug/L | 100 |
| 61) 2-nitropropane | 5.592 | 41 | 61864 | 50.00 | ug/L | 100 |
| 62) 2-chloroethyl vinyl ether | 5.620 | 63 | 482154 | 250.00 | ug/L | 100 |
| 63) methyl methacrylate | 5.235 | 100 | 49452 | 50.00 | ug/L | 100 |
| 64) 1,2-dichloropropane | 5.239 | 63 | 134277 | 50.00 | ug/L | 100 |
| 65) methylcyclohexane | 5.226 | 83 | 238992 | 50.00 | ug/L | 100 |
| 66) dibromomethane | 5.306 | 93 | 76270 | 50.00 | ug/L | 100 |
| 67) bromodichloromethane | 5.425 | 83 | 181461 | 50.00 | ug/L | 100 |
| 68) cis-1,3-dichloropropene | 5.765 | 75 | 222922 | 50.00 | ug/L | 100 |
| 69) epichlorohydrin | 5.675 | 57 | 135041 | 250.00 | ug/L | 100 |
| 70) 4-methyl-2-pentanone | 5.864 | 58 | 349809 | 200.00 | ug/L | 100 |
| 71) 3-methyl-1-butanol | 5.887 | 70 | 163241 | 1000.00 | ug/L | 100 |
| 74) toluene | 6.047 | 92 | 317417 | 50.00 | ug/L | 100 |
| 75) trans-1,3-dichloropropene | 6.221 | 75 | 205246 | 50.00 | ug/L | 100 |
| 76) ethyl methacrylate | 6.237 | 69 | 215371 | 50.00 | ug/L | 100 |
| 77) 1,1,2-trichloroethane | 6.391 | 83 | 110259 | 50.00 | ug/L | 100 |
| 78) 2-hexanone | 6.551 | 58 | 371900 | 200.00 | ug/L | 100 |
| 79) tetrachloroethene | 6.487 | 166 | 133633 | 50.00 | ug/L | 100 |
| 80) 1,3-dichloropropane | 6.535 | 76 | 203960 | 50.00 | ug/L | 100 |
| 81) butyl acetate | 6.638 | 56 | 135978 | 50.00 | ug/L | 100 |
| 82) dibromochloromethane | 6.721 | 129 | 130147 | 50.00 | ug/L | 100 |
| 83) 1,2-dibromoethane | 6.843 | 107 | 136194 | 50.00 | ug/L | 100 |
| 84) n-butyl ether | 7.312 | 57 | 581270 | 50.00 | ug/L | 100 |
| 85) chlorobenzene | 7.267 | 112 | 325567 | 50.00 | ug/L | 100 |
| 86) 1,1,1,2-tetrachloroethane | 7.337 | 131 | 108871 | 50.00 | ug/L | 100 |
| 87) ethylbenzene | 7.340 | 91 | 541759 | 50.00 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348715.D
Acq On : 27 Oct 2022 4:37 am
Operator : PrashanS
Sample : ICC10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 08:57:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

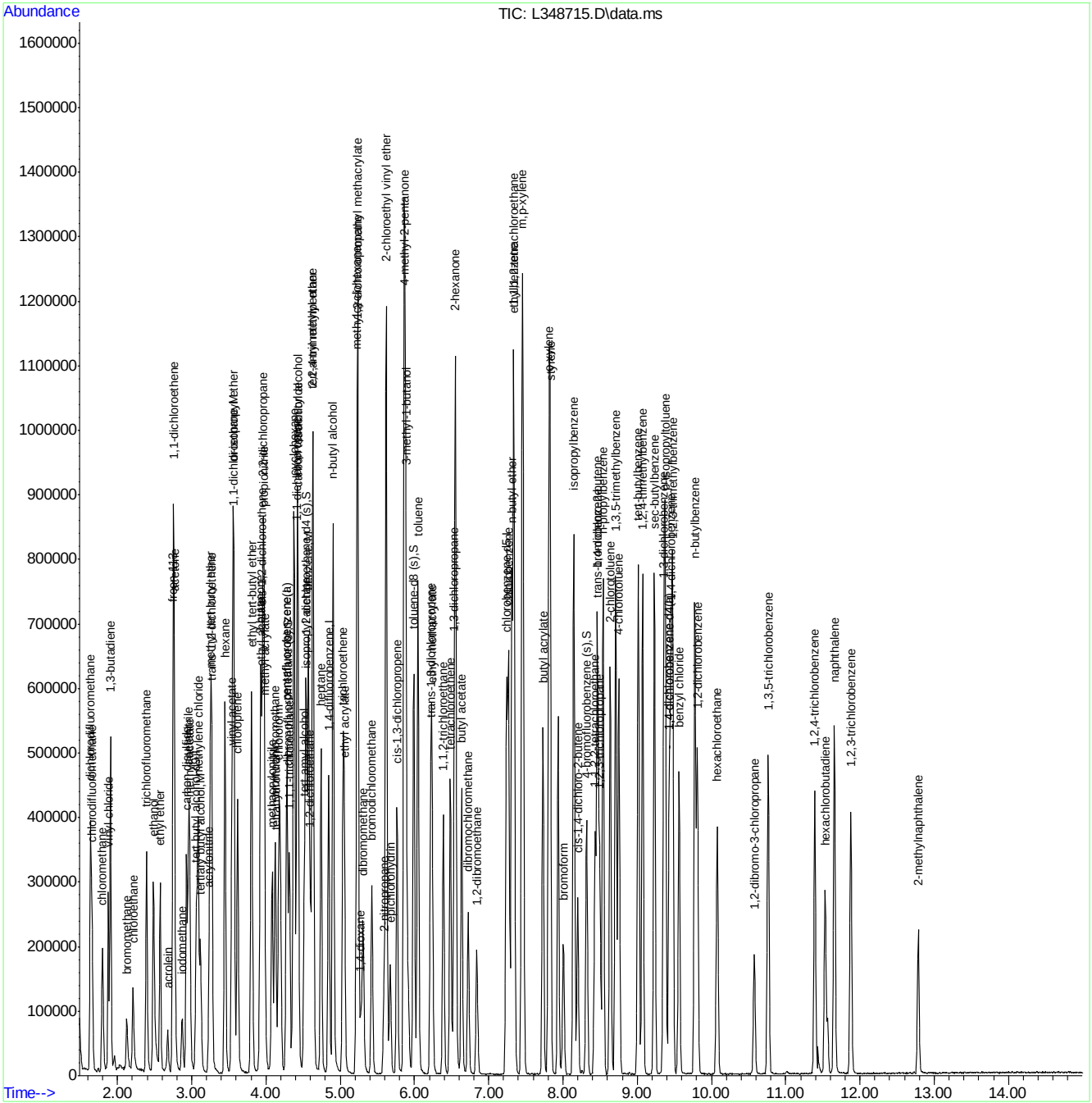
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 88) | m,p-xylene | 7.456 | 106 | 431955 | 100.00 | ug/L | 100 |
| 89) | o-xylene | 7.812 | 106 | 222468 | 50.00 | ug/L | 100 |
| 90) | butyl acrylate | 7.732 | 55 | 337598 | 50.00 | ug/L | 100 |
| 91) | styrene | 7.828 | 104 | 358866 | 50.00 | ug/L | 100 |
| 92) | bromoform | 8.008 | 173 | 101429 | 50.00 | ug/L | 100 |
| 93) | isopropylbenzene | 8.146 | 105 | 576163 | 50.00 | ug/L | 100 |
| 94) | cis-1,4-dichloro-2-butene | 8.200 | 88 | 65295 | 50.00 | ug/L | 100 |
| 97) | bromobenzene | 8.464 | 156 | 132995 | 50.00 | ug/L | 100 |
| 98) | 1,1,2,2-tetrachloroethane | 8.431 | 83 | 201379 | 50.00 | ug/L | 100 |
| 99) | trans-1,4-dichloro-2-b... | 8.470 | 53 | 53419 | 50.00 | ug/L | 100 |
| 100) | 1,2,3-trichloropropane | 8.492 | 110 | 54935 | 50.00 | ug/L | 100 |
| 101) | n-propylbenzene | 8.541 | 91 | 624299 | 50.00 | ug/L | 100 |
| 102) | 2-chlorotoluene | 8.637 | 126 | 125658 | 50.00 | ug/L | 100 |
| 103) | 4-chlorotoluene | 8.752 | 126 | 120142 | 50.00 | ug/L | 100 |
| 104) | 1,3,5-trimethylbenzene | 8.711 | 105 | 444241 | 50.00 | ug/L | 100 |
| 105) | tert-butylbenzene | 9.015 | 119 | 383395 | 50.00 | ug/L | 100 |
| 106) | 1,2,4-trimethylbenzene | 9.073 | 105 | 443542 | 50.00 | ug/L | 100 |
| 107) | sec-butylbenzene | 9.230 | 105 | 564380 | 50.00 | ug/L | 100 |
| 108) | 1,3-dichlorobenzene | 9.359 | 146 | 235862 | 50.00 | ug/L | 100 |
| 109) | p-isopropyltoluene | 9.378 | 119 | 428262 | 50.00 | ug/L | 100 |
| 110) | 1,4-dichlorobenzene | 9.455 | 146 | 219494 | 50.00 | ug/L | 100 |
| 111) | 1,2,3-trimethylbenzene | 9.478 | 105 | 418015 | 50.00 | ug/L | 100 |
| 112) | 1,2-dichlorobenzene | 9.811 | 146 | 214204 | 50.00 | ug/L | 100 |
| 113) | n-butylbenzene | 9.776 | 92 | 234843 | 50.00 | ug/L | 100 |
| 114) | 1,2-dibromo-3-chloropr... | 10.578 | 157 | 55278 | 50.00 | ug/L | 100 |
| 115) | 1,3,5-trichlorobenzene | 10.764 | 180 | 167402 | 50.00 | ug/L | 100 |
| 116) | 1,2,4-trichlorobenzene | 11.390 | 180 | 145170 | 50.00 | ug/L | 100 |
| 117) | hexachlorobutadiene | 11.531 | 225 | 56233 | 50.00 | ug/L | 100 |
| 118) | naphthalene | 11.656 | 128 | 463847 | 50.00 | ug/L | 100 |
| 119) | 1,2,3-trichlorobenzene | 11.878 | 180 | 132092 | 50.00 | ug/L | 100 |
| 120) | hexachloroethane | 10.078 | 119 | 89162 | 50.00 | ug/L | 100 |
| 121) | benzyl chloride | 9.564 | 91 | 352889 | 50.00 | ug/L | 100 |
| 122) | 2-methylnaphthalene | 12.786 | 142 | 118302 | 25.00 | ug/L | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348715.D
Acq On : 27 Oct 2022 4:37 am
Operator : PrashanS
Sample : ICC10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 08:57:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348716.D
Acq On : 27 Oct 2022 5:00 am
Operator : PrashanS
Sample : IC10548-100
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 08:57:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.066 | 65 | 236238 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.279 | 168 | 204150 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.847 | 114 | 304073 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.241 | 117 | 295346 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.432 | 152 | 114742 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.279 | 168 | 203541 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.432 | 152 | 114835 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.289 | 113 | 88230 | 49.69 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.38% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.539 | 65 | 97364 | 49.17 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.34% | | | | |
| 73) toluene-d8 (s) | 5.992 | 98 | 366034 | 49.75 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.50% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.319 | 95 | 136978 | 50.22 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.44% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.283 | 88 | 110320 | 2339.29 | ug/L | | 91 |
| 3) ethanol | 2.488 | 45 | 583783 | 9022.47 | ug/L | | 98 |
| 4) tertiary butyl alcohol | 3.121 | 59 | 324925 | 449.55 | ug/L | | 96 |
| 6) chlorodifluoromethane | 1.654 | 51 | 380837 | 92.51 | ug/L | # | 99 |
| 7) dichlorodifluoromethane | 1.635 | 85 | 495158 | 94.40 | ug/L | | 98 |
| 8) chloromethane | 1.798 | 50 | 363108 | 95.72 | ug/L | | 99 |
| 9) vinyl chloride | 1.879 | 62 | 373111 | 92.98 | ug/L | | 98 |
| 10) 1,3-butadiene | 1.908 | 54 | 250031 | 91.30 | ug/L | | 97 |
| 11) bromomethane | 2.116 | 96 | 101946 | 111.64 | ug/L | | 91 |
| 12) chloroethane | 2.206 | 64 | 183818 | 91.98 | ug/L | | 99 |
| 13) trichlorofluoromethane | 2.389 | 101 | 414671 | 94.84 | ug/L | | 98 |
| 14) ethyl ether | 2.575 | 74 | 155913 | 92.80 | ug/L | | 92 |
| 15) acrolein | 2.678 | 56 | 81247 | 94.12 | ug/L | | 97 |
| 16) freon 113 | 2.748 | 151 | 180610 | 93.28 | ug/L | | 98 |
| 17) 1,1-dichloroethene | 2.758 | 96 | 201375 | 90.61 | ug/L | | 99 |
| 18) acetone | 2.771 | 58 | 204716 | 369.74 | ug/L | | 97 |
| 19) acetonitrile | 2.960 | 40 | 284051 | 922.85 | ug/L | | 91 |
| 20) iodomethane | 2.873 | 142 | 166123 | 106.74 | ug/L | | 99 |
| 21) iso-butyl alcohol | 4.433 | 43 | 225396 | 878.71 | ug/L | | 95 |
| 22) carbon disulfide | 2.931 | 76 | 678558 | 93.67 | ug/L | | 98 |
| 23) methylene chloride | 3.085 | 84 | 232675 | 92.22 | ug/L | | 93 |
| 24) methyl acetate | 2.973 | 74 | 69814 | 92.51 | ug/L | | 91 |
| 25) methyl tert butyl ether | 3.252 | 73 | 687556 | 89.32 | ug/L | | 99 |
| 26) trans-1,2-dichloroethene | 3.271 | 96 | 213528 | 92.69 | ug/L | | 96 |
| 27) hexane | 3.448 | 57 | 407651 | 94.99 | ug/L | | 99 |
| 28) di-isopropyl ether | 3.560 | 45 | 754173 | 89.23 | ug/L | | 98 |
| 29) ethyl tert-butyl ether | 3.804 | 59 | 783252 | 91.10 | ug/L | | 99 |
| 30) 2-butanone | 3.926 | 72 | 225871 | 379.14 | ug/L | # | 88 |
| 31) 1,1-dichloroethane | 3.567 | 63 | 403364 | 90.27 | ug/L | | 100 |
| 32) chloroprene | 3.618 | 53 | 373511 | 93.99 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348716.D
Acq On : 27 Oct 2022 5:00 am
Operator : PrashanS
Sample : IC10548-100
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 08:57:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 33) acrylonitrile | 3.233 | 53 | 171360 | 96.81 | ug/L | | 99 |
| 34) vinyl acetate | 3.538 | 86 | 60606 | 89.03 | ug/L | | 96 |
| 35) ethyl acetate | 3.936 | 45 | 63755 | 93.20 | ug/L | # | 69 |
| 36) 2,2-dichloropropane | 3.964 | 77 | 307501 | 90.52 | ug/L | | 100 |
| 37) cis-1,2-dichloroethene | 3.955 | 96 | 222031 | 89.60 | ug/L | | 99 |
| 38) propionitrile | 3.974 | 54 | 570069 | 914.77 | ug/L | | 99 |
| 39) methyl acrylate | 3.981 | 85 | 55603 | 97.97 | ug/L | | 96 |
| 40) bromochloromethane | 4.122 | 128 | 104869 | 92.93 | ug/L | | 93 |
| 41) tetrahydrofuran | 4.131 | 72 | 60985 | 92.94 | ug/L | | 95 |
| 42) chloroform | 4.176 | 83 | 388554 | 91.79 | ug/L | | 98 |
| 44) methacrylonitrile | 4.086 | 67 | 159467 | 94.48 | ug/L | | 99 |
| 45) 1,1,1-trichloroethane | 4.314 | 97 | 342348 | 95.30 | ug/L | | 99 |
| 46) cyclohexane | 4.372 | 84 | 360522 | 96.16 | ug/L | | 87 |
| 47) 1,1-dichloropropene | 4.423 | 75 | 298290 | 93.55 | ug/L | | 97 |
| 48) carbon tetrachloride | 4.430 | 117 | 261097 | 91.81 | ug/L | | 96 |
| 49) isopropyl acetate | 4.542 | 87 | 72464 | 96.16 | ug/L | # | 90 |
| 50) tert amyl alcohol | 4.523 | 55 | 111977 | 458.30 | ug/L | | 96 |
| 53) tert-amyl methyl ether | 4.632 | 73 | 663792 | 89.19 | ug/L | | 99 |
| 54) 2,2,4-trimethylpentane | 4.632 | 57 | 744248 | 91.13 | ug/L | | 98 |
| 55) n-butyl alcohol | 4.911 | 56 | 755161 | 4393.04 | ug/L | | 99 |
| 56) benzene | 4.574 | 78 | 844049 | 89.93 | ug/L | | 98 |
| 57) heptane | 4.744 | 57 | 190659 | 98.43 | ug/L | | 92 |
| 58) 1,2-dichloroethane | 4.593 | 62 | 285478 | 90.91 | ug/L | | 98 |
| 59) trichloroethene | 5.039 | 95 | 239732 | 95.26 | ug/L | | 93 |
| 60) ethyl acrylate | 5.059 | 55 | 437809 | 89.05 | ug/L | | 99 |
| 61) 2-nitropropane | 5.591 | 41 | 111827 | 94.33 | ug/L | | 98 |
| 62) 2-chloroethyl vinyl ether | 5.620 | 63 | 800620 | 433.28 | ug/L | | 98 |
| 63) methyl methacrylate | 5.235 | 100 | 87648 | 92.50 | ug/L | | 97 |
| 64) 1,2-dichloropropane | 5.238 | 63 | 235220 | 91.42 | ug/L | | 99 |
| 65) methylcyclohexane | 5.229 | 83 | 424753 | 92.75 | ug/L | | 99 |
| 66) dibromomethane | 5.309 | 93 | 138491 | 94.76 | ug/L | | 92 |
| 67) bromodichloromethane | 5.428 | 83 | 327637 | 94.23 | ug/L | | 99 |
| 68) cis-1,3-dichloropropene | 5.768 | 75 | 396661 | 92.86 | ug/L | | 96 |
| 69) epichlorohydrin | 5.675 | 57 | 245711 | 474.78 | ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 5.864 | 58 | 591449 | 352.95 | ug/L | | 95 |
| 71) 3-methyl-1-butanol | 5.890 | 70 | 272519 | 1742.45 | ug/L | | 98 |
| 74) toluene | 6.047 | 92 | 555558 | 89.86 | ug/L | | 100 |
| 75) trans-1,3-dichloropropene | 6.220 | 75 | 368530 | 92.19 | ug/L | | 98 |
| 76) ethyl methacrylate | 6.240 | 69 | 370591 | 88.34 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 6.390 | 83 | 195937 | 91.24 | ug/L | | 98 |
| 78) 2-hexanone | 6.554 | 58 | 638172 | 352.40 | ug/L | | 99 |
| 79) tetrachloroethene | 6.487 | 166 | 241106 | 92.63 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 6.535 | 76 | 360339 | 90.71 | ug/L | | 99 |
| 81) butyl acetate | 6.638 | 56 | 238836 | 90.18 | ug/L | | 98 |
| 82) dibromochloromethane | 6.727 | 129 | 238204 | 93.97 | ug/L | | 95 |
| 83) 1,2-dibromoethane | 6.843 | 107 | 245962 | 92.72 | ug/L | | 99 |
| 84) n-butyl ether | 7.311 | 57 | 990855 | 87.52 | ug/L | | 98 |
| 85) chlorobenzene | 7.266 | 112 | 582351 | 91.84 | ug/L | | 97 |
| 86) 1,1,1,2-tetrachloroethane | 7.337 | 131 | 191249 | 90.19 | ug/L | | 99 |
| 87) ethylbenzene | 7.340 | 91 | 917127 | 86.91 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348716.D
Acq On : 27 Oct 2022 5:00 am
Operator : PrashanS
Sample : IC10548-100
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 08:57:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

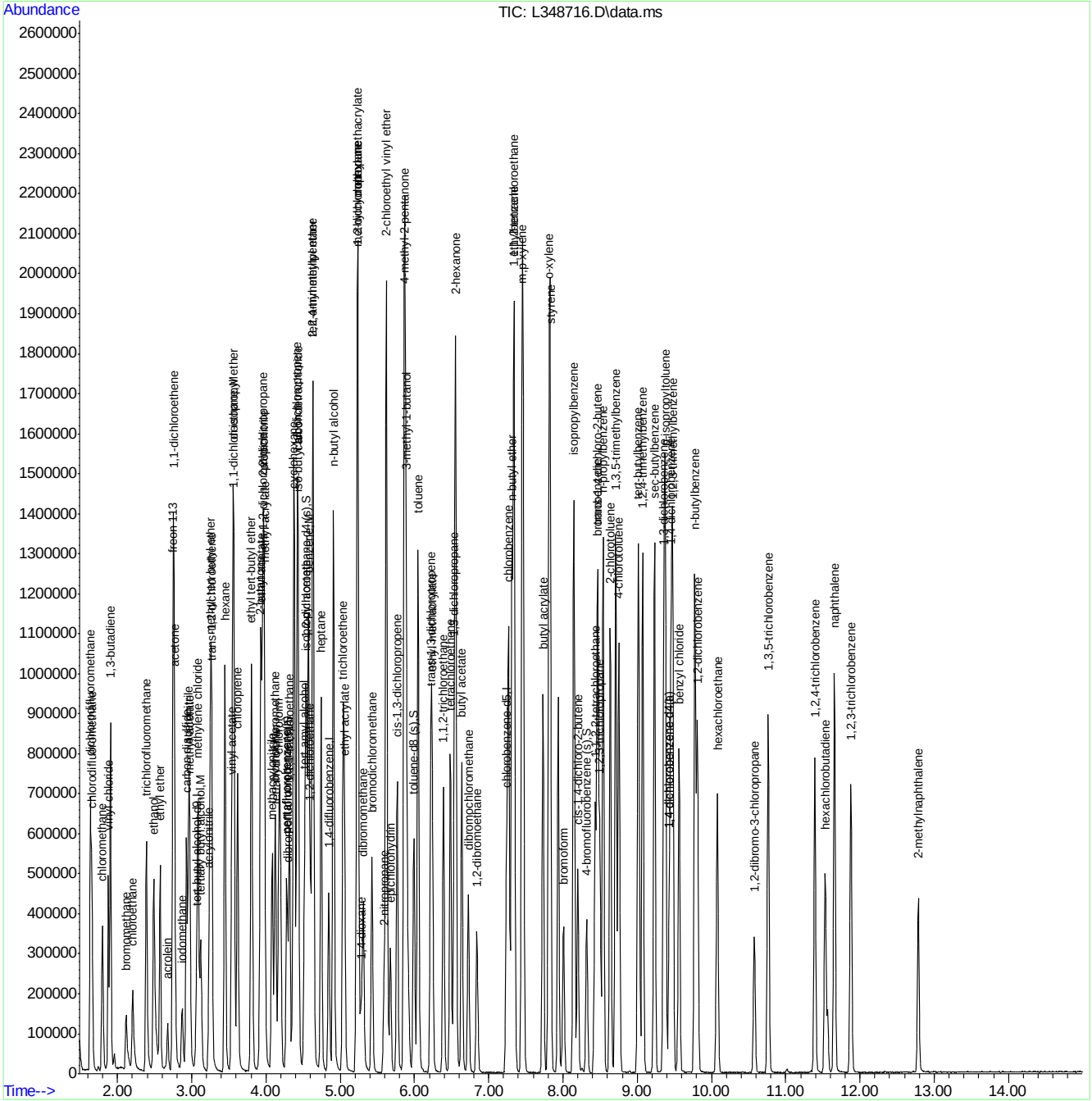
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 88) m,p-xylene | 7.456 | 106 | 754267 | 179.30 | ug/L | 99 |
| 89) o-xylene | 7.815 | 106 | 389739 | 89.94 | ug/L | 95 |
| 90) butyl acrylate | 7.732 | 55 | 585899 | 89.10 | ug/L | 98 |
| 91) styrene | 7.828 | 104 | 618148 | 88.44 | ug/L | 97 |
| 92) bromoform | 8.004 | 173 | 179994 | 91.11 | ug/L | 94 |
| 93) isopropylbenzene | 8.146 | 105 | 983847 | 87.67 | ug/L | 95 |
| 94) cis-1,4-dichloro-2-butene | 8.200 | 88 | 124792 | 98.12 | ug/L | 93 |
| 97) bromobenzene | 8.463 | 156 | 233036 | 91.97 | ug/L | 97 |
| 98) 1,1,2,2-tetrachloroethane | 8.434 | 83 | 352132 | 91.78 | ug/L | 96 |
| 99) trans-1,4-dichloro-2-b... | 8.467 | 53 | 95480 | 93.82 | ug/L | 86 |
| 100) 1,2,3-trichloropropane | 8.495 | 110 | 93700 | 89.53 | ug/L | 95 |
| 101) n-propylbenzene | 8.540 | 91 | 1068860 | 89.87 | ug/L | 95 |
| 102) 2-chlorotoluene | 8.637 | 126 | 221851 | 92.67 | ug/L | 94 |
| 103) 4-chlorotoluene | 8.752 | 126 | 215210 | 94.02 | ug/L | 95 |
| 104) 1,3,5-trimethylbenzene | 8.710 | 105 | 757195 | 89.47 | ug/L | 98 |
| 105) tert-butylbenzene | 9.015 | 119 | 661816 | 90.61 | ug/L | 98 |
| 106) 1,2,4-trimethylbenzene | 9.076 | 105 | 756980 | 89.58 | ug/L | 98 |
| 107) sec-butylbenzene | 9.233 | 105 | 968483 | 90.07 | ug/L | 98 |
| 108) 1,3-dichlorobenzene | 9.359 | 146 | 412982 | 91.91 | ug/L | 95 |
| 109) p-isopropyltoluene | 9.378 | 119 | 724395 | 88.78 | ug/L | 99 |
| 110) 1,4-dichlorobenzene | 9.458 | 146 | 393340 | 94.06 | ug/L | 96 |
| 111) 1,2,3-trimethylbenzene | 9.477 | 105 | 716992 | 90.03 | ug/L | 98 |
| 112) 1,2-dichlorobenzene | 9.811 | 146 | 373882 | 91.62 | ug/L | 98 |
| 113) n-butylbenzene | 9.776 | 92 | 421706 | 94.25 | ug/L | 96 |
| 114) 1,2-dibromo-3-chloropr... | 10.578 | 157 | 104202 | 98.94 | ug/L | 96 |
| 115) 1,3,5-trichlorobenzene | 10.764 | 180 | 298285 | 93.53 | ug/L | 95 |
| 116) 1,2,4-trichlorobenzene | 11.393 | 180 | 258102 | 93.32 | ug/L | 99 |
| 117) hexachlorobutadiene | 11.531 | 225 | 102718 | 95.88 | ug/L | 99 |
| 118) naphthalene | 11.656 | 128 | 818666 | 92.64 | ug/L | 98 |
| 119) 1,2,3-trichlorobenzene | 11.878 | 180 | 239770 | 95.28 | ug/L | 99 |
| 120) hexachloroethane | 10.081 | 119 | 160617 | 94.55 | ug/L | 95 |
| 121) benzyl chloride | 9.564 | 91 | 609262 | 90.62 | ug/L | 99 |
| 122) 2-methylnaphthalene | 12.783 | 142 | 224478 | 49.80 | ug/L | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348716.D
Acq On : 27 Oct 2022 5:00 am
Operator : PrashanS
Sample : IC10548-100
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 08:57:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348717.D
Acq On : 27 Oct 2022 5:23 am
Operator : PrashanS
Sample : IC10548-200
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 28 17:51:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.076 | 65 | 198716 | 500.00 | ug/L | | 0.02 |
| 5) pentafluorobenzene | 4.279 | 168 | 191757 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.847 | 114 | 293073 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.241 | 117 | 289829 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.432 | 152 | 105209 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.279 | 168 | 191721 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.432 | 152 | 105207 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.285 | 113 | 85053 | 51.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.00% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.542 | 65 | 89874 | 47.09 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 94.18% | | | | |
| 73) toluene-d8 (s) | 5.992 | 98 | 352086 | 48.77 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.54% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.319 | 95 | 127446 | 50.96 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.92% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.290 | 88 | 198971 | 5015.75 | ug/L | | 99 |
| 3) ethanol | 2.501 | 45 | 936864 | 17213.42 | ug/L | | 100 |
| 4) tertiary butyl alcohol | 3.130 | 59 | 561160 | 922.99 | ug/L | | 97 |
| 6) chlorodifluoromethane | 1.654 | 51 | 666951 | 172.49 | ug/L | # | 99 |
| 7) dichlorodifluoromethane | 1.635 | 85 | 886842 | 180.00 | ug/L | | 96 |
| 8) chloromethane | 1.798 | 50 | 644663 | 180.93 | ug/L | | 97 |
| 9) vinyl chloride | 1.879 | 62 | 647546 | 171.81 | ug/L | | 98 |
| 10) 1,3-butadiene | 1.904 | 54 | 416604 | 161.96 | ug/L | | 99 |
| 12) chloroethane | 2.196 | 64 | 304258 | 162.08 | ug/L | | 95 |
| 13) trichlorofluoromethane | 2.386 | 101 | 732181 | 178.29 | ug/L | | 98 |
| 14) ethyl ether | 2.575 | 74 | 278920 | 176.74 | ug/L | | 93 |
| 15) acrolein | 2.678 | 56 | 152718 | 188.34 | ug/L | | 97 |
| 16) freon 113 | 2.745 | 151 | 318052 | 174.89 | ug/L | | 99 |
| 17) 1,1-dichloroethene | 2.755 | 96 | 356835 | 170.93 | ug/L | | 96 |
| 18) acetone | 2.771 | 58 | 363440 | 698.84 | ug/L | | 86 |
| 19) acetonitrile | 2.963 | 40 | 487615 | 1686.60 | ug/L | | 93 |
| 21) iso-butyl alcohol | 4.439 | 43 | 381033 | 1581.47 | ug/L | | 95 |
| 22) carbon disulfide | 2.928 | 76 | 1192324 | 175.23 | ug/L | | 98 |
| 23) methylene chloride | 3.085 | 84 | 424154 | 178.97 | ug/L | | 98 |
| 24) methyl acetate | 2.973 | 74 | 122729 | 173.13 | ug/L | | 99 |
| 25) methyl tert butyl ether | 3.255 | 73 | 1185092 | 163.90 | ug/L | | 98 |
| 26) trans-1,2-dichloroethene | 3.268 | 96 | 372983 | 172.37 | ug/L | | 97 |
| 27) hexane | 3.445 | 57 | 708417 | 175.74 | ug/L | | 98 |
| 28) di-isopropyl ether | 3.560 | 45 | 1251336 | 157.62 | ug/L | | 97 |
| 29) ethyl tert-butyl ether | 3.804 | 59 | 1364602 | 168.98 | ug/L | | 96 |
| 30) 2-butanone | 3.929 | 72 | 401267 | 717.09 | ug/L | # | 82 |
| 31) 1,1-dichloroethane | 3.567 | 63 | 687600 | 163.83 | ug/L | | 99 |
| 32) chloroprene | 3.618 | 53 | 654536 | 175.35 | ug/L | | 94 |
| 33) acrylonitrile | 3.233 | 53 | 304899 | 183.38 | ug/L | | 97 |
| 34) vinyl acetate | 3.541 | 86 | 115245 | 180.23 | ug/L | # | 75 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348717.D
Acq On : 27 Oct 2022 5:23 am
Operator : PrashanS
Sample : IC10548-200
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 28 17:51:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) ethyl acetate | 3.939 | 45 | 111664 | 173.78 | ug/L | | 96 |
| 36) 2,2-dichloropropane | 3.964 | 77 | 539538 | 169.10 | ug/L | | 99 |
| 37) cis-1,2-dichloroethene | 3.955 | 96 | 400506 | 172.07 | ug/L | | 99 |
| 38) propionitrile | 3.980 | 54 | 943727 | 1612.23 | ug/L | | 83 |
| 39) methyl acrylate | 3.980 | 85 | 95850 | 179.79 | ug/L | | 96 |
| 40) bromochloromethane | 4.122 | 128 | 190550 | 179.77 | ug/L | | 97 |
| 41) tetrahydrofuran | 4.131 | 72 | 112089 | 181.87 | ug/L | | 91 |
| 42) chloroform | 4.176 | 83 | 689858 | 173.50 | ug/L | | 96 |
| 44) methacrylonitrile | 4.083 | 67 | 294151 | 185.54 | ug/L | | 98 |
| 45) 1,1,1-trichloroethane | 4.317 | 97 | 619135 | 183.50 | ug/L | | 97 |
| 46) cyclohexane | 4.375 | 84 | 631620 | 179.36 | ug/L | | 94 |
| 47) 1,1-dichloropropene | 4.423 | 75 | 527813 | 176.23 | ug/L | | 96 |
| 48) carbon tetrachloride | 4.430 | 117 | 463620 | 173.56 | ug/L | | 95 |
| 49) isopropyl acetate | 4.542 | 87 | 134017 | 189.33 | ug/L | | 98 |
| 50) tert amyl alcohol | 4.529 | 55 | 185534 | 808.43 | ug/L | # | 85 |
| 53) tert-amyl methyl ether | 4.632 | 73 | 1143249 | 159.38 | ug/L | | 96 |
| 54) 2,2,4-trimethylpentane | 4.632 | 57 | 1271201 | 161.50 | ug/L | | 97 |
| 55) n-butyl alcohol | 4.918 | 56 | 1267827 | 7652.22 | ug/L | | 99 |
| 56) benzene | 4.571 | 78 | 1449377 | 160.23 | ug/L | | 93 |
| 57) heptane | 4.744 | 57 | 332279 | 177.98 | ug/L | | 95 |
| 58) 1,2-dichloroethane | 4.597 | 62 | 511862 | 169.11 | ug/L | | 96 |
| 59) trichloroethene | 5.039 | 95 | 432508 | 178.30 | ug/L | | 91 |
| 60) ethyl acrylate | 5.059 | 55 | 769500 | 162.39 | ug/L | | 98 |
| 61) 2-nitropropane | 5.591 | 41 | 203801 | 178.37 | ug/L | | 99 |
| 62) 2-chloroethyl vinyl ether | 5.620 | 63 | 1351929 | 759.11 | ug/L | | 93 |
| 63) methyl methacrylate | 5.238 | 100 | 152957 | 167.47 | ug/L | # | 89 |
| 64) 1,2-dichloropropane | 5.238 | 63 | 405932 | 163.69 | ug/L | | 97 |
| 65) methylcyclohexane | 5.226 | 83 | 743185 | 168.38 | ug/L | | 97 |
| 66) dibromomethane | 5.309 | 93 | 253529 | 179.99 | ug/L | | 92 |
| 67) bromodichloromethane | 5.428 | 83 | 597712 | 178.35 | ug/L | | 97 |
| 68) cis-1,3-dichloropropene | 5.768 | 75 | 715575 | 173.81 | ug/L | | 95 |
| 69) epichlorohydrin | 5.678 | 57 | 437226 | 876.55 | ug/L | | 96 |
| 70) 4-methyl-2-pentanone | 5.864 | 58 | 1005907 | 622.80 | ug/L | # | 83 |
| 71) 3-methyl-1-butanol | 5.893 | 70 | 464775 | 3083.24 | ug/L | | 97 |
| 74) toluene | 6.047 | 92 | 1000311 | 164.88 | ug/L | | 95 |
| 75) trans-1,3-dichloropropene | 6.220 | 75 | 665768 | 169.71 | ug/L | | 96 |
| 76) ethyl methacrylate | 6.240 | 69 | 649033 | 157.67 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 6.390 | 83 | 357667 | 169.72 | ug/L | | 99 |
| 78) 2-hexanone | 6.554 | 58 | 1044571 | 587.80 | ug/L | | 93 |
| 79) tetrachloroethene | 6.483 | 166 | 440865 | 172.60 | ug/L | | 95 |
| 80) 1,3-dichloropropane | 6.535 | 76 | 638538 | 163.79 | ug/L | | 97 |
| 81) butyl acetate | 6.637 | 56 | 425488 | 163.71 | ug/L | | 96 |
| 82) dibromochloromethane | 6.724 | 129 | 439496 | 176.68 | ug/L | | 96 |
| 83) 1,2-dibromoethane | 6.843 | 107 | 455399 | 174.94 | ug/L | | 93 |
| 84) n-butyl ether | 7.311 | 57 | 1639545 | 147.57 | ug/L | | 93 |
| 85) chlorobenzene | 7.266 | 112 | 1047214 | 168.29 | ug/L | | 99 |
| 86) 1,1,1,2-tetrachloroethane | 7.337 | 131 | 335179 | 161.07 | ug/L | | 97 |
| 87) ethylbenzene | 7.340 | 91 | 1526824 | 147.45 | ug/L | | 92 |
| 88) m,p-xylene | 7.456 | 106 | 1301686 | 315.32 | ug/L | | 89 |
| 89) o-xylene | 7.812 | 106 | 684045 | 160.87 | ug/L | | 92 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348717.D
Acq On : 27 Oct 2022 5:23 am
Operator : PrashanS
Sample : IC10548-200
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 28 17:51:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

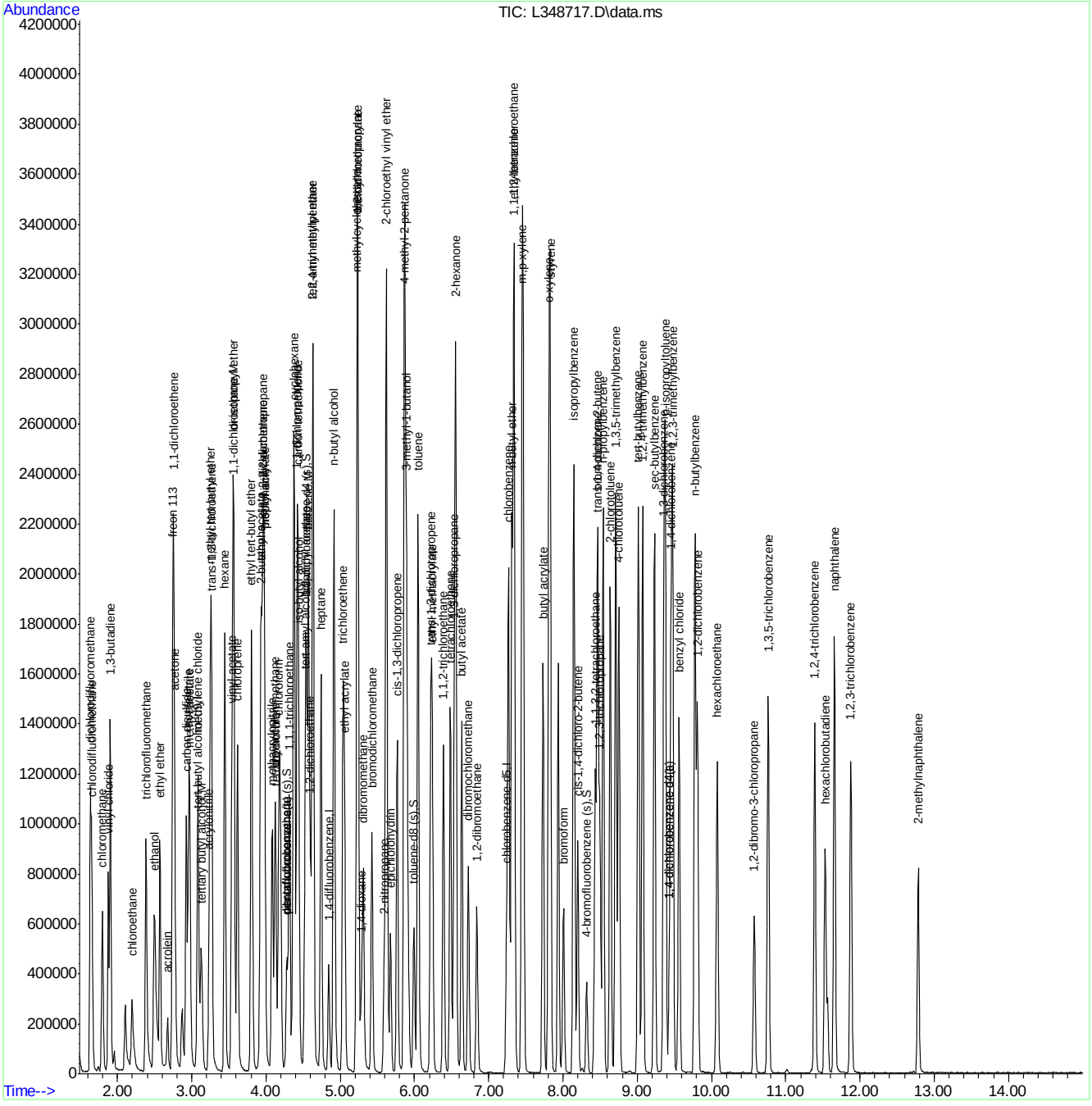
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 90) | butyl acrylate | 7.732 | 55 | 999080 | 154.83 | ug/L | | 97 |
| 91) | styrene | 7.828 | 104 | 1055691 | 153.91 | ug/L | | 96 |
| 92) | bromoform | 8.008 | 173 | 326696 | 168.51 | ug/L | | 93 |
| 93) | isopropylbenzene | 8.146 | 105 | 1655581 | 150.34 | ug/L | | 92 |
| 94) | cis-1,4-dichloro-2-butene | 8.200 | 88 | 224131 | 179.59 | ug/L | | 96 |
| 97) | bromobenzene | 8.463 | 156 | 409858 | 176.42 | ug/L | | 96 |
| 98) | 1,1,2,2-tetrachloroethane | 8.434 | 83 | 611976 | 173.96 | ug/L | | 95 |
| 99) | trans-1,4-dichloro-2-b... | 8.470 | 53 | 167373 | 179.36 | ug/L | | 93 |
| 100) | 1,2,3-trichloropropane | 8.495 | 110 | 166348 | 173.34 | ug/L | | 94 |
| 101) | n-propylbenzene | 8.540 | 91 | 1770344 | 162.33 | ug/L | | 93 |
| 102) | 2-chlorotoluene | 8.637 | 126 | 396722 | 180.73 | ug/L | | 90 |
| 103) | 4-chlorotoluene | 8.752 | 126 | 382581 | 182.29 | ug/L | # | 86 |
| 104) | 1,3,5-trimethylbenzene | 8.710 | 105 | 1260800 | 162.47 | ug/L | | 95 |
| 105) | tert-butylbenzene | 9.015 | 119 | 1129275 | 168.61 | ug/L | | 95 |
| 106) | 1,2,4-trimethylbenzene | 9.073 | 105 | 1258214 | 162.39 | ug/L | | 95 |
| 107) | sec-butylbenzene | 9.233 | 105 | 1601223 | 162.41 | ug/L | | 95 |
| 108) | 1,3-dichlorobenzene | 9.359 | 146 | 719590 | 174.65 | ug/L | | 97 |
| 109) | p-isopropyltoluene | 9.378 | 119 | 1190188 | 159.09 | ug/L | | 97 |
| 110) | 1,4-dichlorobenzene | 9.455 | 146 | 679843 | 177.31 | ug/L | | 95 |
| 111) | 1,2,3-trimethylbenzene | 9.477 | 105 | 1197339 | 163.97 | ug/L | | 96 |
| 112) | 1,2-dichlorobenzene | 9.811 | 146 | 643476 | 171.97 | ug/L | | 96 |
| 113) | n-butylbenzene | 9.776 | 92 | 723527 | 176.37 | ug/L | | 93 |
| 114) | 1,2-dibromo-3-chloropr... | 10.575 | 157 | 197330 | 204.35 | ug/L | | 97 |
| 115) | 1,3,5-trichlorobenzene | 10.764 | 180 | 526650 | 180.09 | ug/L | | 99 |
| 116) | 1,2,4-trichlorobenzene | 11.390 | 180 | 469282 | 185.05 | ug/L | | 97 |
| 117) | hexachlorobutadiene | 11.531 | 225 | 187366 | 190.74 | ug/L | | 98 |
| 118) | naphthalene | 11.656 | 128 | 1445629 | 178.41 | ug/L | | 95 |
| 119) | 1,2,3-trichlorobenzene | 11.874 | 180 | 433991 | 188.08 | ug/L | | 98 |
| 120) | hexachloroethane | 10.077 | 119 | 285379 | 183.22 | ug/L | | 98 |
| 121) | benzyl chloride | 9.564 | 91 | 1063169 | 172.47 | ug/L | | 97 |
| 122) | 2-methylnaphthalene | 12.786 | 142 | 426140 | 103.10 | ug/L | | 94 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348717.D
Acq On : 27 Oct 2022 5:23 am
Operator : PrashanS
Sample : IC10548-200
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 28 17:51:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348720.D
Acq On : 27 Oct 2022 6:33 am
Operator : PrashanS
Sample : ICV10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 28 17:52:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 17:50:59 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.063 | 65 | 247503 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.279 | 168 | 214189 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.847 | 114 | 319370 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.241 | 117 | 306171 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.433 | 152 | 121496 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.279 | 168 | 214338 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.433 | 152 | 121478 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.289 | 113 | 93713 | 52.56 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 105.12% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.539 | 65 | 106435 | 48.67 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 97.34% | | | | |
| 73) toluene-d8 (s) | 5.993 | 98 | 378791 | 46.72 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.44% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.322 | 95 | 143466 | 51.34 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.68% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.277 | 88 | 59087 | 1205.42 | ug/L | | 96 |
| 3) ethanol | 2.485 | 45 | 337933 | 5049.43 | ug/L | | 99 |
| 4) tertiary butyl alcohol | 3.117 | 59 | 203916 | 275.09 | ug/L | | 95 |
| 7) dichlorodifluoromethane | 1.635 | 85 | 219598 | 45.09 | ug/L | | 99 |
| 8) chloromethane | 1.799 | 50 | 166949 | 44.62 | ug/L | | 97 |
| 9) vinyl chloride | 1.879 | 62 | 187316 | 48.37 | ug/L | | 98 |
| 10) 1,3-butadiene | 1.908 | 54 | 180296 | 64.34 | ug/L | | 98 |
| 11) bromomethane | 2.129 | 96 | 45400 | 45.50 | ug/L | | 93 |
| 12) chloroethane | 2.209 | 64 | 101266 | 50.40 | ug/L | | 96 |
| 13) trichlorofluoromethane | 2.392 | 101 | 210758 | 50.55 | ug/L | | 98 |
| 14) ethyl ether | 2.578 | 74 | 82239 | 47.19 | ug/L | | 94 |
| 15) acrolein | 2.678 | 56 | 44610 | 51.74 | ug/L | | 92 |
| 16) freon 113 | 2.748 | 151 | 89480 | 45.14 | ug/L | | 98 |
| 17) 1,1-dichloroethene | 2.758 | 96 | 110031 | 47.23 | ug/L | | 97 |
| 18) acetone | 2.768 | 58 | 101121 | 175.88 | ug/L | | 99 |
| 20) iodomethane | 2.870 | 142 | 64300 | 40.02 | ug/L | | 95 |
| 21) iso-butyl alcohol | 4.427 | 43 | 144054 | 540.55 | ug/L | | 99 |
| 22) carbon disulfide | 2.931 | 76 | 355902 | 44.94 | ug/L | | 99 |
| 23) methylene chloride | 3.085 | 84 | 122627 | 46.75 | ug/L | | 99 |
| 24) methyl acetate | 2.976 | 74 | 40595 | 54.13 | ug/L | | 92 |
| 25) methyl tert butyl ether | 3.255 | 73 | 394940 | 50.09 | ug/L | | 98 |
| 26) trans-1,2-dichloroethene | 3.275 | 96 | 114637 | 46.66 | ug/L | | 95 |
| 27) hexane | 3.451 | 57 | 211899 | 46.58 | ug/L | | 97 |
| 28) di-isopropyl ether | 3.560 | 45 | 436789 | 49.23 | ug/L | | 100 |
| 29) ethyl tert-butyl ether | 3.807 | 59 | 444082 | 48.91 | ug/L | | 99 |
| 30) 2-butanone | 3.929 | 72 | 127299 | 207.63 | ug/L | | 97 |
| 31) 1,1-dichloroethane | 3.570 | 63 | 227424 | 48.41 | ug/L | | 97 |
| 32) chloroprene | 3.618 | 53 | 202857 | 47.84 | ug/L | | 98 |
| 34) vinyl acetate | 3.541 | 86 | 25189 | 37.56 | ug/L | # | 92 |
| 35) ethyl acetate | 3.936 | 45 | 36747 | 48.89 | ug/L | # | 60 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348720.D
Acq On : 27 Oct 2022 6:33 am
Operator : PrashanS
Sample : ICV10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 28 17:52:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 17:50:59 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) 2,2-dichloropropane | 3.965 | 77 | 172075 | 45.80 | ug/L | | 99 |
| 37) cis-1,2-dichloroethene | 3.955 | 96 | 125988 | 47.52 | ug/L | | 96 |
| 38) propionitrile | 3.974 | 54 | 311724 | 477.96 | ug/L | | 99 |
| 39) methyl acrylate | 3.984 | 85 | 29437 | 46.82 | ug/L | | 98 |
| 40) bromochloromethane | 4.125 | 128 | 57141 | 48.86 | ug/L | | 97 |
| 41) tetrahydrofuran | 4.131 | 72 | 33604 | 49.17 | ug/L | | 88 |
| 42) chloroform | 4.176 | 83 | 227713 | 49.67 | ug/L | | 98 |
| 44) methacrylonitrile | 4.083 | 67 | 90799 | 50.73 | ug/L | | 95 |
| 45) 1,1,1-trichloroethane | 4.314 | 97 | 184464 | 48.30 | ug/L | | 96 |
| 46) cyclohexane | 4.379 | 84 | 194161 | 48.71 | ug/L | | 95 |
| 47) 1,1-dichloropropene | 4.423 | 75 | 163731 | 47.37 | ug/L | | 99 |
| 48) carbon tetrachloride | 4.430 | 117 | 143809 | 47.31 | ug/L | | 98 |
| 49) isopropyl acetate | 4.542 | 87 | 41104 | 52.63 | ug/L | | 97 |
| 50) tert amyl alcohol | 4.520 | 55 | 65974 | 252.01 | ug/L | # | 88 |
| 53) tert-amyl methyl ether | 4.629 | 73 | 368264 | 46.06 | ug/L | | 99 |
| 54) 2,2,4-trimethylpentane | 4.632 | 57 | 387657 | 43.74 | ug/L | | 98 |
| 55) n-butyl alcohol | 4.905 | 56 | 457490 | 2630.37 | ug/L | | 100 |
| 56) benzene | 4.571 | 78 | 466236 | 44.41 | ug/L | | 98 |
| 57) heptane | 4.744 | 57 | 94249 | 44.91 | ug/L | | 98 |
| 58) 1,2-dichloroethane | 4.597 | 62 | 158621 | 46.03 | ug/L | | 99 |
| 59) trichloroethene | 5.043 | 95 | 130518 | 48.29 | ug/L | | 93 |
| 60) ethyl acrylate | 5.059 | 55 | 251210 | 49.26 | ug/L | | 98 |
| 61) 2-nitropropane | 5.591 | 41 | 65627 | 52.04 | ug/L | | 94 |
| 62) 2-chloroethyl vinyl ether | 5.620 | 63 | 425130 | 211.74 | ug/L | | 100 |
| 63) methyl methacrylate | 5.239 | 100 | 52745 | 52.92 | ug/L | # | 87 |
| 64) 1,2-dichloropropane | 5.239 | 63 | 129604 | 45.70 | ug/L | | 97 |
| 65) methylcyclohexane | 5.229 | 83 | 210872 | 43.59 | ug/L | | 98 |
| 66) dibromomethane | 5.309 | 93 | 74266 | 45.19 | ug/L | | 94 |
| 67) bromodichloromethane | 5.428 | 83 | 183144 | 48.24 | ug/L | | 97 |
| 68) cis-1,3-dichloropropene | 5.765 | 75 | 224388 | 49.24 | ug/L | | 95 |
| 69) epichlorohydrin | 5.672 | 57 | 138269 | 245.81 | ug/L | | 96 |
| 70) 4-methyl-2-pentanone | 5.864 | 58 | 359663 | 196.56 | ug/L | | 98 |
| 71) 3-methyl-1-butanol | 5.883 | 70 | 167584 | 1016.85 | ug/L | | 97 |
| 74) toluene | 6.050 | 92 | 313975 | 46.15 | ug/L | | 98 |
| 75) trans-1,3-dichloropropene | 6.220 | 75 | 210331 | 49.02 | ug/L | | 96 |
| 76) ethyl methacrylate | 6.240 | 69 | 212903 | 48.32 | ug/L | | 95 |
| 77) 1,1,2-trichloroethane | 6.391 | 83 | 111121 | 48.65 | ug/L | | 98 |
| 78) 2-hexanone | 6.554 | 58 | 379810 | 185.41 | ug/L | | 96 |
| 80) 1,3-dichloropropane | 6.535 | 76 | 204898 | 45.30 | ug/L | | 99 |
| 81) butyl acetate | 6.638 | 56 | 143556 | 51.05 | ug/L | | 92 |
| 82) dibromochloromethane | 6.724 | 129 | 135099 | 48.32 | ug/L | | 95 |
| 83) 1,2-dibromoethane | 6.840 | 107 | 137809 | 48.73 | ug/L | | 96 |
| 84) n-butyl ether | 7.311 | 57 | 586119 | 49.28 | ug/L | | 100 |
| 85) chlorobenzene | 7.267 | 112 | 334552 | 48.68 | ug/L | | 97 |
| 86) 1,1,1,2-tetrachloroethane | 7.337 | 131 | 112282 | 48.25 | ug/L | | 99 |
| 87) ethylbenzene | 7.340 | 91 | 555752 | 45.15 | ug/L | | 98 |
| 88) m,p-xylene | 7.456 | 106 | 446552 | 93.13 | ug/L | | 98 |
| 89) o-xylene | 7.812 | 106 | 232734 | 49.14 | ug/L | | 97 |
| 90) butyl acrylate | 7.732 | 55 | 348228 | 51.57 | ug/L | | 98 |
| 91) styrene | 7.828 | 104 | 376031 | 48.17 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348720.D
Acq On : 27 Oct 2022 6:33 am
Operator : PrashanS
Sample : ICV10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 28 17:52:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 17:50:59 2022
Response via : Initial Calibration

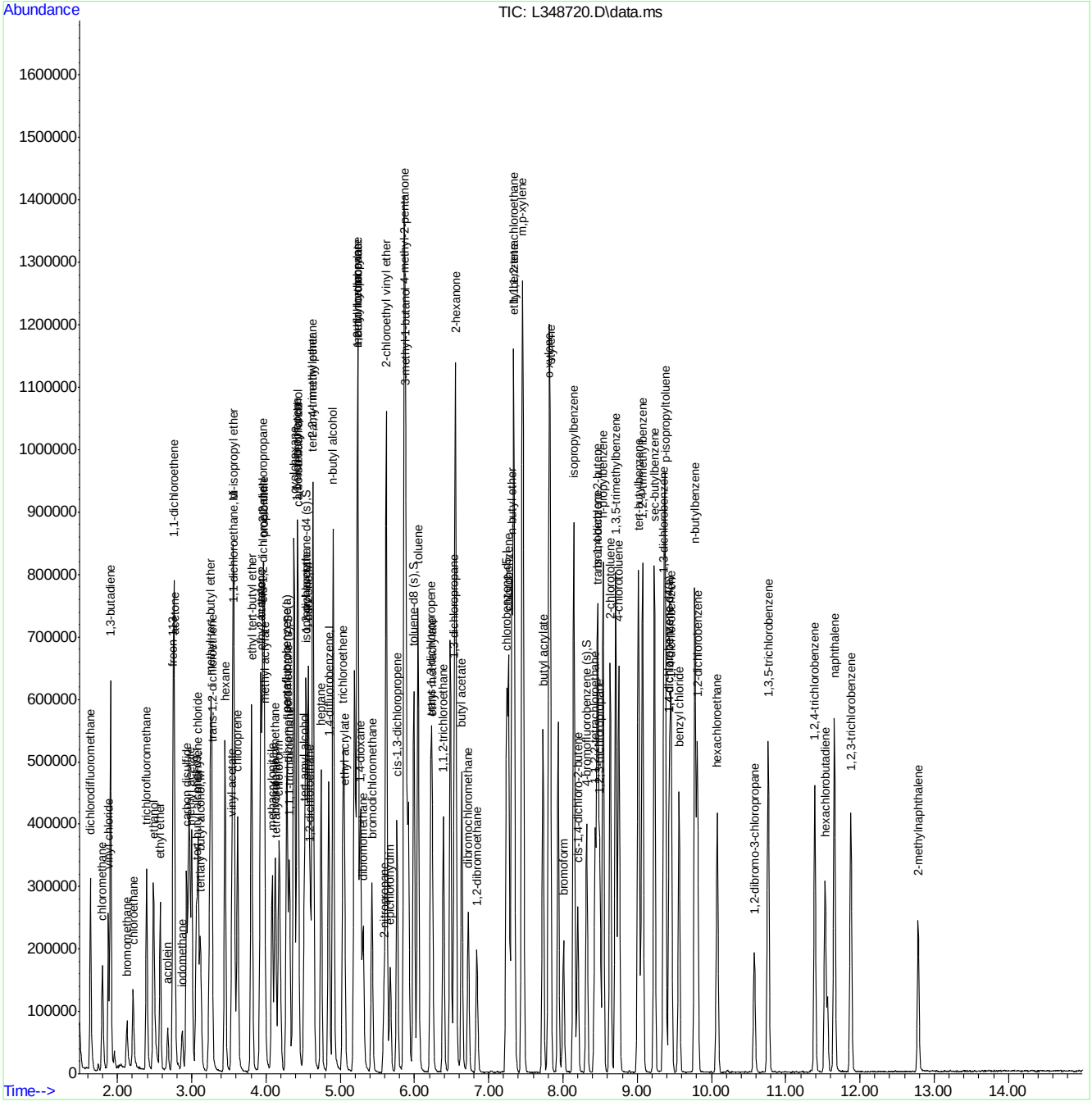
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 92) bromoform | 8.008 | 173 | 104635 | 49.34 | ug/L | 96 |
| 93) isopropylbenzene | 8.146 | 105 | 593882 | 48.13 | ug/L | 99 |
| 94) cis-1,4-dichloro-2-butene | 8.200 | 88 | 64997 | 51.78 | ug/L | 95 |
| 97) bromobenzene | 8.463 | 156 | 137981 | 52.41 | ug/L | 94 |
| 98) 1,1,2,2-tetrachloroethane | 8.431 | 83 | 203808 | 50.28 | ug/L | 94 |
| 99) trans-1,4-dichloro-2-b... | 8.470 | 53 | 58061 | 56.74 | ug/L | 97 |
| 100) 1,2,3-trichloropropane | 8.496 | 110 | 57290 | 52.36 | ug/L | 96 |
| 101) n-propylbenzene | 8.540 | 91 | 651935 | 51.58 | ug/L | 98 |
| 102) 2-chlorotoluene | 8.637 | 126 | 128598 | 51.45 | ug/L | 97 |
| 103) 4-chlorotoluene | 8.752 | 126 | 128455 | 51.29 | ug/L | 98 |
| 104) 1,3,5-trimethylbenzene | 8.707 | 105 | 458853 | 50.11 | ug/L | 98 |
| 105) tert-butylbenzene | 9.019 | 119 | 407915 | 52.33 | ug/L | 100 |
| 106) 1,2,4-trimethylbenzene | 9.073 | 105 | 453136 | 50.59 | ug/L | 98 |
| 107) sec-butylbenzene | 9.230 | 105 | 597405 | 52.44 | ug/L | 99 |
| 108) 1,3-dichlorobenzene | 9.359 | 146 | 243935 | 53.21 | ug/L | 96 |
| 109) p-isopropyltoluene | 9.378 | 119 | 447700 | 50.69 | ug/L | 98 |
| 110) 1,4-dichlorobenzene | 9.458 | 146 | 235902 | 52.56 | ug/L | 96 |
| 112) 1,2-dichlorobenzene | 9.808 | 146 | 225581 | 52.07 | ug/L | 98 |
| 113) n-butylbenzene | 9.776 | 92 | 248303 | 55.19 | ug/L | 95 |
| 114) 1,2-dibromo-3-chloropr... | 10.581 | 157 | 59549 | 57.07 | ug/L | 95 |
| 115) 1,3,5-trichlorobenzene | 10.764 | 180 | 173246 | 56.68 | ug/L | 97 |
| 116) 1,2,4-trichlorobenzene | 11.390 | 180 | 150609 | 59.06 | ug/L | 97 |
| 117) hexachlorobutadiene | 11.531 | 225 | 61541 | 54.26 | ug/L | 92 |
| 118) naphthalene | 11.653 | 128 | 481526 | 55.23 | ug/L | 98 |
| 119) 1,2,3-trichlorobenzene | 11.878 | 180 | 137422 | 56.40 | ug/L | 95 |
| 120) hexachloroethane | 10.078 | 119 | 93764 | 56.30 | ug/L | 98 |
| 121) benzyl chloride | 9.564 | 91 | 342932 | 49.65 | ug/L | 99 |
| 122) 2-methylnaphthalene | 12.783 | 142 | 123960 | 28.54 | ug/L | 93 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348720.D
Acq On : 27 Oct 2022 6:33 am
Operator : PrashanS
Sample : ICV10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 28 17:52:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 17:50:59 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348721.D
Acq On : 27 Oct 2022 6:56 am
Operator : PrashanS
Sample : ICV10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 27 19:08:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 19:06:54 2022
Response via : Initial Calibration

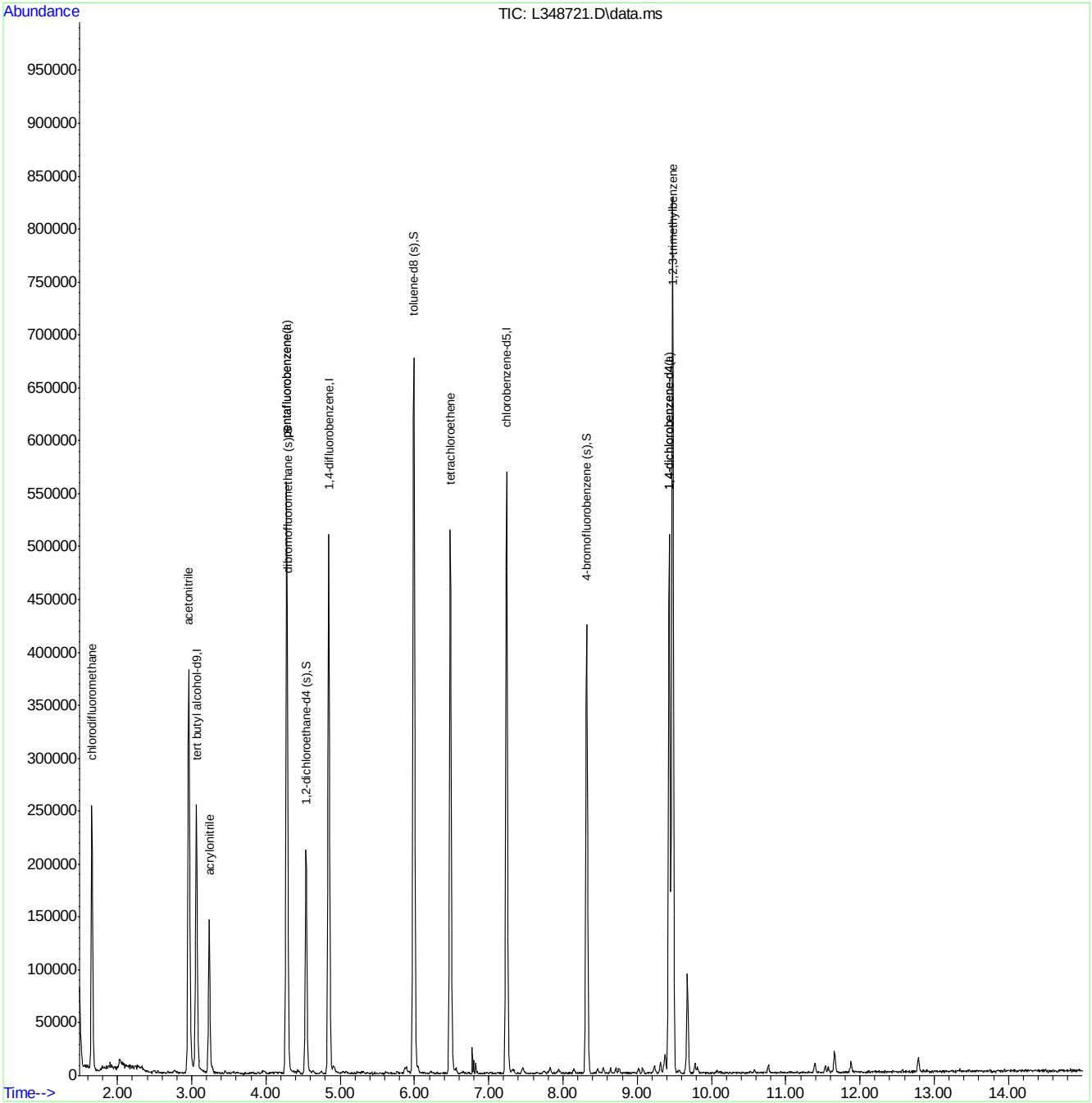
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.063 | 65 | 252630 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.279 | 168 | 237506 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.847 | 114 | 345732 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.241 | 117 | 307317 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.433 | 152 | 135096 | 50.00 | ug/L | 0.00 |
| 123) pentafluorobenzene(a) | 4.279 | 168 | 237706 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.433 | 152 | 135096 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.289 | 113 | 100761 | 50.97 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.94% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.539 | 65 | 124009 | 52.39 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 104.78% | | | |
| 73) toluene-d8 (s) | 5.993 | 98 | 428648 | 52.68 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 105.36% | | | |
| 96) 4-bromofluorobenzene (s) | 8.319 | 95 | 150210 | 48.34 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.68% | | | |
| Target Compounds | | | | | | Qvalue |
| 6) chlorodifluoromethane | 1.654 | 51 | 229869 | 49.75 | ug/L # | 99 |
| 19) acetonitrile | 2.960 | 40 | 179733 | 519.56 | ug/L | 86 |
| 33) acrylonitrile | 3.236 | 53 | 89622 | 45.90 | ug/L | 92 |
| 79) tetrachloroethene | 6.484 | 166 | 151906 | 53.74 | ug/L | 92 |
| 111) 1,2,3-trimethylbenzene | 9.477 | 105 | 488449 | 51.17 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348721.D
Acq On : 27 Oct 2022 6:56 am
Operator : PrashanS
Sample : ICV10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 27 19:08:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 19:06:54 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348799.d
Acq On : 29 Oct 2022 10:33 am
Operator : BridgetK
Sample : cc10548-20 Inst : GCMSL
Misc : MS63359,VL10552,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:19:58 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.063 | 65 | 246849 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.282 | 168 | 242496 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.850 | 114 | 334022 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.244 | 117 | 312296 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.432 | 152 | 126617 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.282 | 168 | 242358 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.432 | 152 | 126677 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.289 | 113 | 98861 | 48.98 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.96% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.545 | 65 | 119733 | 52.35 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 104.70% | | | | |
| 73) toluene-d8 (s) | 5.996 | 98 | 399652 | 48.33 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.66% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.319 | 95 | 149592 | 51.37 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.74% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.280 | 88 | 18958 | 387.78 | ug/L | | 98 |
| 3) ethanol | 2.485 | 45 | 117059 | 1753.74 | ug/L | | 98 |
| 4) tertiary butyl alcohol | 3.120 | 59 | 69563 | 94.09 | ug/L | | 94 |
| 6) chlorodifluoromethane | 1.651 | 51 | 82105 | 17.40 | ug/L | # | 94 |
| 7) dichlorodifluoromethane | 1.638 | 85 | 87552 | 15.88 | ug/L | | 98 |
| 8) chloromethane | 1.795 | 50 | 70164 | 16.56 | ug/L | | 99 |
| 9) vinyl chloride | 1.882 | 62 | 71534 | 16.32 | ug/L | | 97 |
| 10) 1,3-butadiene | 1.908 | 54 | 79710 | 25.13 | ug/L | | 97 |
| 11) bromomethane | 2.135 | 96 | 27213 | 24.80 | ug/L | | 97 |
| 12) chloroethane | 2.216 | 64 | 38587 | 16.96 | ug/L | | 95 |
| 13) trichlorofluoromethane | 2.398 | 101 | 83323 | 17.65 | ug/L | | 96 |
| 14) ethyl ether | 2.578 | 74 | 34398 | 17.43 | ug/L | | 97 |
| 15) acrolein | 2.681 | 56 | 20065 | 20.56 | ug/L | | 94 |
| 16) freon 113 | 2.755 | 151 | 39191 | 17.46 | ug/L | | 99 |
| 17) 1,1-dichloroethene | 2.761 | 96 | 46120 | 17.49 | ug/L | | 92 |
| 18) acetone | 2.771 | 58 | 40409 | 62.08 | ug/L | | 97 |
| 19) acetonitrile | 2.960 | 40 | 66478 | 188.21 | ug/L | | 92 |
| 20) iodomethane | 2.873 | 142 | 36723 | 21.15 | ug/L | | 97 |
| 21) iso-butyl alcohol | 4.430 | 43 | 54132 | 179.41 | ug/L | | 97 |
| 22) carbon disulfide | 2.934 | 76 | 148584 | 16.57 | ug/L | | 99 |
| 23) methylene chloride | 3.088 | 84 | 52668 | 17.73 | ug/L | | 99 |
| 24) methyl acetate | 2.983 | 74 | 15564 | 18.33 | ug/L | | 88 |
| 25) methyl tert butyl ether | 3.255 | 73 | 173362 | 19.42 | ug/L | | 98 |
| 26) trans-1,2-dichloroethene | 3.275 | 96 | 49061 | 17.64 | ug/L | | 99 |
| 27) hexane | 3.454 | 57 | 90042 | 17.48 | ug/L | | 98 |
| 28) di-isopropyl ether | 3.563 | 45 | 189897 | 18.90 | ug/L | | 98 |
| 29) ethyl tert-butyl ether | 3.810 | 59 | 193251 | 18.80 | ug/L | | 95 |
| 30) 2-butanone | 3.929 | 72 | 50349 | 72.54 | ug/L | | 97 |
| 31) 1,1-dichloroethane | 3.573 | 63 | 98147 | 18.45 | ug/L | | 98 |
| 32) chloroprene | 3.624 | 53 | 81706 | 17.02 | ug/L | | 96 |
| 33) acrylonitrile | 3.236 | 53 | 34871 | 17.49 | ug/L | | 95 |
| 34) vinyl acetate | 3.544 | 86 | 15296 | 20.14 | ug/L | # | 85 |
| 35) ethyl acetate | 3.936 | 45 | 15629 | 18.37 | ug/L | # | 41 |
| 36) 2,2-dichloropropane | 3.971 | 77 | 80805 | 19.00 | ug/L | | 96 |
| 37) cis-1,2-dichloroethene | 3.958 | 96 | 52054 | 17.34 | ug/L | | 89 |
| 38) propionitrile | 3.977 | 54 | 139972 | 189.57 | ug/L | | 91 |
| 39) methyl acrylate | 3.984 | 85 | 13080 | 18.37 | ug/L | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348799.d
Acq On : 29 Oct 2022 10:33 am
Operator : BridgetK
Sample : cc10548-20 Inst : GCMSL
Misc : MS63359,VL10552,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:19:58 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 40) bromochloromethane | 4.125 | 128 | 24375 | 18.41 | ug/L | | 93 |
| 41) tetrahydrofuran | 4.141 | 72 | 14601 | 18.87 | ug/L | | 98 |
| 42) chloroform | 4.179 | 83 | 91043 | 17.54 | ug/L | | 94 |
| 44) methacrylonitrile | 4.086 | 67 | 36483 | 18.00 | ug/L | | 98 |
| 45) 1,1,1-trichloroethane | 4.324 | 97 | 72299 | 16.72 | ug/L | | 95 |
| 46) cyclohexane | 4.378 | 84 | 67551 | 14.97 | ug/L | | 94 |
| 47) 1,1-dichloropropene | 4.430 | 75 | 67158 | 17.16 | ug/L | | 93 |
| 48) carbon tetrachloride | 4.433 | 117 | 58387 | 16.96 | ug/L | | 98 |
| 49) isopropyl acetate | 4.545 | 87 | 17430 | 19.71 | ug/L | # | 81 |
| 50) tert amyl alcohol | 4.526 | 55 | 25295 | 85.34 | ug/L | | 95 |
| 53) tert-amyl methyl ether | 4.638 | 73 | 163785 | 19.58 | ug/L | | 98 |
| 54) 2,2,4-trimethylpentane | 4.638 | 57 | 174920 | 18.87 | ug/L | | 95 |
| 55) n-butyl alcohol | 4.908 | 56 | 161071 | 885.47 | ug/L | | 99 |
| 56) benzene | 4.577 | 78 | 195524 | 17.81 | ug/L | | 99 |
| 57) heptane | 4.751 | 57 | 40199 | 18.31 | ug/L | | 96 |
| 58) 1,2-dichloroethane | 4.600 | 62 | 70656 | 19.61 | ug/L | | 97 |
| 59) trichloroethene | 5.046 | 95 | 49898 | 17.65 | ug/L | | 93 |
| 60) ethyl acrylate | 5.062 | 55 | 108322 | 20.31 | ug/L | | 98 |
| 61) 2-nitropropane | 5.591 | 41 | 24495 | 18.57 | ug/L | | 94 |
| 62) 2-chloroethyl vinyl ether | 5.623 | 63 | 202612 | 96.49 | ug/L | | 98 |
| 63) methyl methacrylate | 5.242 | 100 | 21465 | 20.59 | ug/L | | 95 |
| 64) 1,2-dichloropropane | 5.242 | 63 | 56386 | 19.01 | ug/L | | 99 |
| 65) methylcyclohexane | 5.229 | 83 | 91998 | 18.18 | ug/L | | 94 |
| 66) dibromomethane | 5.312 | 93 | 32305 | 18.79 | ug/L | | 95 |
| 67) bromodichloromethane | 5.431 | 83 | 71372 | 17.97 | ug/L | | 98 |
| 68) cis-1,3-dichloropropene | 5.771 | 75 | 87244 | 18.31 | ug/L | | 93 |
| 69) epichlorohydrin | 5.675 | 57 | 56115 | 95.38 | ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 5.864 | 58 | 149495 | 78.12 | ug/L | | 96 |
| 71) 3-methyl-1-butanol | 5.887 | 70 | 59423 | 344.74 | ug/L | | 90 |
| 74) toluene | 6.053 | 92 | 120511 | 17.37 | ug/L | | 90 |
| 75) trans-1,3-dichloropropene | 6.223 | 75 | 80614 | 18.42 | ug/L | | 95 |
| 76) ethyl methacrylate | 6.240 | 69 | 89407 | 19.89 | ug/L | | 95 |
| 77) 1,1,2-trichloroethane | 6.394 | 83 | 44687 | 19.18 | ug/L | | 93 |
| 78) 2-hexanone | 6.557 | 58 | 157910 | 75.58 | ug/L | | 93 |
| 79) tetrachloroethene | 6.487 | 166 | 51729 | 18.01 | ug/L | | 93 |
| 80) 1,3-dichloropropane | 6.535 | 76 | 87247 | 18.91 | ug/L | | 98 |
| 81) butyl acetate | 6.637 | 56 | 55183 | 19.24 | ug/L | | 88 |
| 82) dibromochloromethane | 6.724 | 129 | 51576 | 18.09 | ug/L | | 94 |
| 83) 1,2-dibromoethane | 6.846 | 107 | 55665 | 19.30 | ug/L | | 98 |
| 84) n-butyl ether | 7.311 | 57 | 234891 | 19.36 | ug/L | | 98 |
| 85) chlorobenzene | 7.270 | 112 | 127659 | 18.21 | ug/L | | 91 |
| 86) 1,1,1,2-tetrachloroethane | 7.340 | 131 | 43611 | 18.37 | ug/L | | 97 |
| 87) ethylbenzene | 7.343 | 91 | 220150 | 17.54 | ug/L | | 98 |
| 88) m,p-xylene | 7.456 | 106 | 172425 | 35.26 | ug/L | | 98 |
| 89) o-xylene | 7.812 | 106 | 87131 | 18.04 | ug/L | | 97 |
| 90) butyl acrylate | 7.735 | 55 | 137287 | 19.93 | ug/L | | 99 |
| 91) styrene | 7.831 | 104 | 146593 | 18.41 | ug/L | | 96 |
| 92) bromoform | 8.008 | 173 | 37461 | 17.32 | ug/L | | 99 |
| 93) isopropylbenzene | 8.149 | 105 | 226893 | 18.03 | ug/L | | 99 |
| 94) cis-1,4-dichloro-2-butene | 8.203 | 88 | 15935 | 12.45 | ug/L | | 88 |
| 97) bromobenzene | 8.467 | 156 | 52418 | 19.10 | ug/L | | 94 |
| 98) 1,1,2,2-tetrachloroethane | 8.434 | 83 | 82702 | 19.58 | ug/L | | 96 |
| 99) trans-1,4-dichloro-2-b... | 8.470 | 53 | 13987 | 13.12 | ug/L | | 94 |
| 100) 1,2,3-trichloropropane | 8.495 | 110 | 21933 | 19.24 | ug/L | | 94 |
| 101) n-propylbenzene | 8.544 | 91 | 248397 | 18.86 | ug/L | | 98 |
| 102) 2-chlorotoluene | 8.640 | 126 | 47891 | 18.39 | ug/L | | 96 |
| 103) 4-chlorotoluene | 8.752 | 126 | 48676 | 18.65 | ug/L | | 89 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348799.d
Acq On : 29 Oct 2022 10:33 am
Operator : BridgetK
Sample : cc10548-20 Inst : GCMSL
Misc : MS63359,VL10552,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:19:58 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) 1,3,5-trimethylbenzene | 8.710 | 105 | 173657 | 18.20 | ug/L | 97 |
| 105) tert-butylbenzene | 9.018 | 119 | 145718 | 17.94 | ug/L | 98 |
| 106) 1,2,4-trimethylbenzene | 9.073 | 105 | 175286 | 18.78 | ug/L | 96 |
| 107) sec-butylbenzene | 9.233 | 105 | 219537 | 18.49 | ug/L | 97 |
| 108) 1,3-dichlorobenzene | 9.362 | 146 | 91217 | 19.09 | ug/L | 98 |
| 109) p-isopropyltoluene | 9.378 | 119 | 167640 | 18.21 | ug/L | 99 |
| 110) 1,4-dichlorobenzene | 9.458 | 146 | 84041 | 17.97 | ug/L | 96 |
| 111) 1,2,3-trimethylbenzene | 9.477 | 105 | 166681 | 18.63 | ug/L | 96 |
| 112) 1,2-dichlorobenzene | 9.811 | 146 | 86274 | 19.11 | ug/L | 93 |
| 113) n-butylbenzene | 9.776 | 92 | 88678 | 18.91 | ug/L | 97 |
| 114) 1,2-dibromo-3-chloropr... | 10.575 | 157 | 19675 | 18.09 | ug/L | 96 |
| 115) 1,3,5-trichlorobenzene | 10.764 | 180 | 63624 | 19.97 | ug/L | 95 |
| 116) 1,2,4-trichlorobenzene | 11.390 | 180 | 53382 | 20.09 | ug/L | 96 |
| 117) hexachlorobutadiene | 11.528 | 225 | 22239 | 18.82 | ug/L | 88 |
| 118) naphthalene | 11.656 | 128 | 175357 | 19.30 | ug/L | 98 |
| 119) 1,2,3-trichlorobenzene | 11.878 | 180 | 48624 | 19.15 | ug/L | 96 |
| 120) hexachloroethane | 10.077 | 119 | 32062 | 18.47 | ug/L | 94 |
| 121) benzyl chloride | 9.564 | 91 | 148576 | 20.64 | ug/L | 99 |
| 122) 2-methylnaphthalene | 12.779 | 142 | 36074 | 7.97 | ug/L | 89 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348799.d
Acq On : 29 Oct 2022 10:33 am
Operator : BridgetK
Sample : cc10548-20 Inst : GCMSL
Misc : MS63359,VL10552,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

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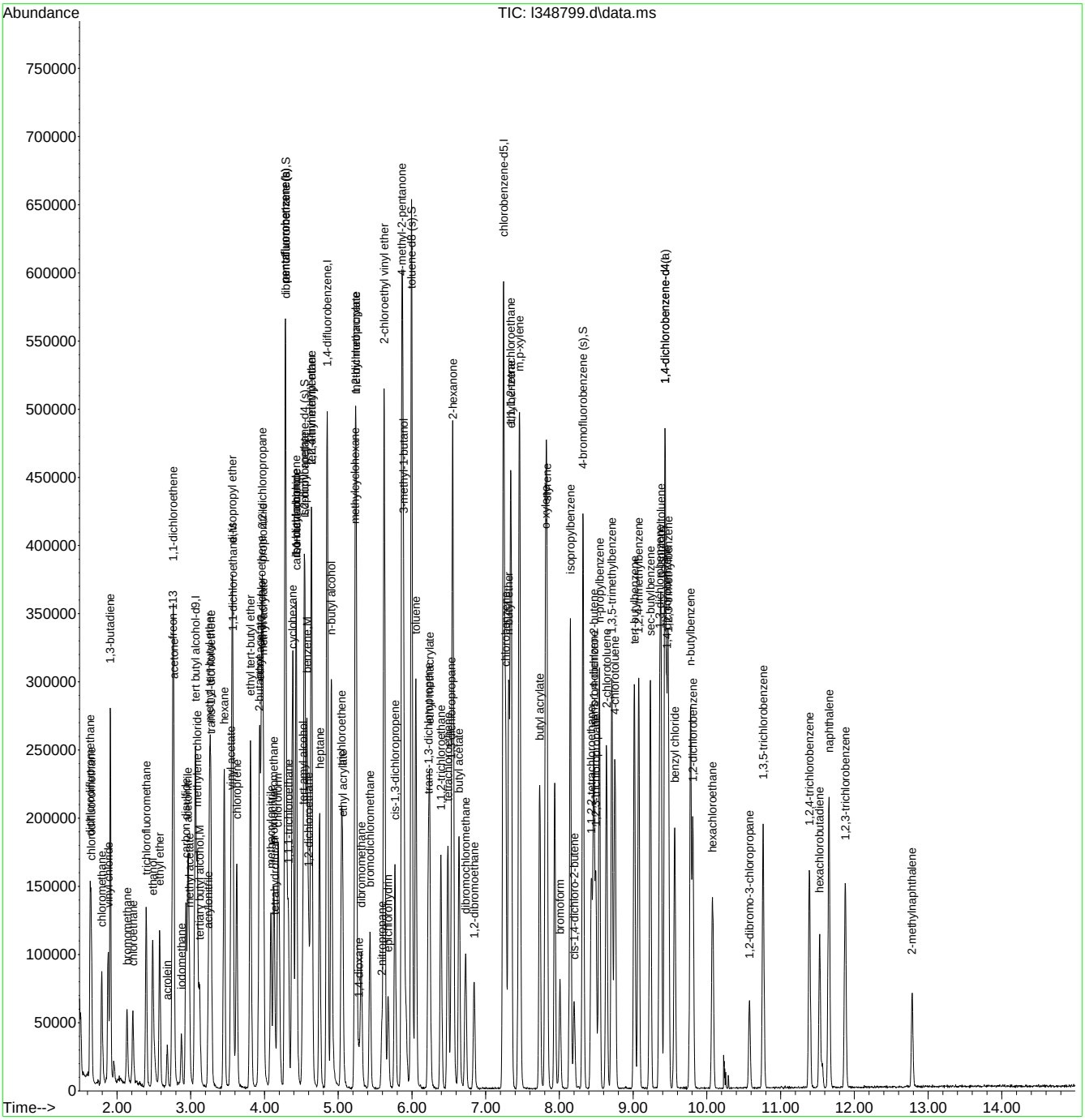
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:19:58 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration



# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | | |
|---|---|---|---|---|---|---|
| Standard | ABK: V022-2752-121.51 | EC: V022-2756-1.1 | AA: V022-2752-125.37 | EXT PA: V022-2752-137.1 | Column | Rxi-624(60mx0.25mmx1.4um) |
| Standard Concentration | 100-10,000ppm | 100ppm | 100ppm | 10/19/22 | Method | v8260d |
| Expiration Date | 10/21/2022 | 10/19/22 | 10/27/2022 | 11/3/2022 | Init Calib Date | 10/14/22 |
| Standard | EXT ABK: V022-2752-144.1 | EXT EC: V022-2752-147 | EXT Acrolein: V022-2752-128.1 | EXT Chlorodifluoromethane: | | |
| Standard Concentration | 100-10,000ppm | 100ppm | 10/19/22 | 10/19/22 | Analysis Date | 10/13/2022 |
| Expiration Date | 11/8/2022 | 10/18/22 | 10/27/2022 | 10/20/2022 | Sequence loaded by | Prashant S. |
| Internal Surrogate | V022-2752-135 | | | | Data processed by | Bridget K. |
| Internal Surrogate Concentration | 50/500ppm | | | | Batch ID | V2A9596 |
| Expiration Date | 10/30/2022 | | | | Matrix | AQ |
| | | | | | Approved By: | MOHUI |
| pH paper Lot# (wide range): | 222221 | 8/1/2024 | Initial Calibration Method | M2A9596 | Approved Date: | 10/28/2022 6:10:02 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2A | 220735 | BFB | | NA | | | 5 | | | 1 | ok | 5:42pm |
| 2A | 220736 | IC9596-0.2 | | NA | | AQ Initial Calibration | 5 | | | 2 | ok | 2ul abk,ec,aa/1000ml |
| 2A | 220737 | IC9596-0.5 | | NA | | AQ Initial Calibration | 5 | | | 3 | ok | 5ul abk,ec,aa/1000ml |
| 2A | 220738 | IC9596-1 | | NA | | AQ Initial Calibration | 5 | | | 4 | ok | 1ul abk,ec,aa/100ml |
| 2A | 220739 | IC9596-2 | | NA | | AQ Initial Calibration | 5 | | | 5 | ok | 2ul abk,ec,aa/100ml |
| 2A | 220740 | IC9596-4 | | NA | | AQ Initial Calibration | 5 | | | 6 | ok | 4ul abk,ec,aa/100ml |
| 2A | 220741 | IC9596-8 | | NA | | AQ Initial Calibration | 5 | | | 7 | ok | 8ul abk,ec,aa/100ml |
| 2A | 220742 | IC9596-20 | | NA | | AQ Initial Calibration | 5 | | | 8 | ok | 20ul abk,ec,aa/100ml |
| 2A | 220743 | ICC9596-50 | | NA | | AQ Initial Calibration | 5 | | | 9 | ok | 50ul abk,ec,aa/100ml |
| 2A | 220744 | IC9596-100 | | NA | | AQ Initial Calibration | 5 | | | 10 | ok | 100ul abk,ec,aa/100ml |
| 2A | 220745 | IC9596-200 | | NA | | AQ Initial Calibration | 5 | | | 11 | ok | 200ul abk,ec,aa/100ml |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2A | 220746 | IB | | NA | | | 5 | | | 12 | ok | |
| 2A | 220747 | IB | | NA | | | 5 | | | 13 | ok | |
| 2A | 220748 | ICV9596-50 | | NA | | AQ Initial Calibration | 5 | | | 14 | ok | 50ul EXT abk,ec,acrolein/100ml |
| 2A | 220749 | ICV9596-50 | | NA | | AQ Initial Calibration | 5 | | | 15 | ok | 50ul EXT PA, Chlorodifluoromethane/100ml |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | Column | Rxi-624(60mx0.25mmx1.4um) |
|---|---|---|---|---|---|---|
| Standard | ABK: V022-2756-10.10 | EC: V022-2756-13.8 | AA: V022-2752-125.8 | | Method | v8260d |
| Standard Concentration | 100-10,000ppm | 100ppm | 100ppm | | Init Calib Date | 10/14/22 |
| Expiration Date | 11/18/2022 | 10/27/22 | 10/27/2022 | | | |
| Internal Surrogate | V022-2752-135 | | | | | |
| Internal Surrogate Concentration | 250/2500ppm | | | | Analysis Date | 10/27/2022 |
| Expiration Date | 10/30/2022 | | | | Sequence loaded by | nickw |
| | | | | | Data processed by | nelsonf |
| | | | | | Batch ID | V2A9619 |
| Rough reviewed by | | | | | Matrix | AQ |
| | | | | | Approved By: | MOHUI |
| pH paper Lot# (wide range): | 222221 | 8/1/2024 | Initial Calibration Method | M2A9596 | Approved Date: | 11/1/2022 5:47:02 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2a | 221286 | IB | | NA | | | 5 | | | 1 | OK | |
| 2a | 221287 | BFB/CC9596-50 | | NA | | | 5 | | | 2 | OK/OK | 50uL ABK, AA, EC/ 100mL, (10:49PM) |
| 2a | 221288 | CC9596-1 | | NA | | | 5 | | | 3 | OK | 1uL ABK, AA, EC/ 100mL |
| 2a | 221289 | BS | | NA | | | 5 | | | 4 | OK | 50uL ABK, AA, EC/ 100mL |
| 2a | 221290 | IB | | NA | | | 5 | | | 5 | OK | |
| 2a | 221291 | MB | | NA | | | 5 | | | 6 | OK | |
| 2a | 221292 | JD54302-5 | 2 | NA | MS63421 | V8260TCL42 | 5 | | 1 | 7 | OK | |
| 2a | 221293 | JD54302-4 | 2 | 10X | MS63421 | V8260TCL42 | 5/50 | | 1 | 8 | RR | O/D |
| 2a | 221294 | JD54347-1 | 1 | NA | MS63447 | V8260TICS+ | 5 | | 1 | 9 | OK | |
| 2a | 221295 | JD54347-2 | 2 | NA | MS63447 | V8260TICS+ | 5 | | 1 | 10 | OK | |
| 2a | 221296 | JD54302-4MS | 2 | 10x | MS63421 | V8260TCL42 | 5/50 | | 1 | 11 | OK | 25uL ABK, AA, EC/ 50mL |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2a | 221297 | JD54302-4MSD | 2 | 10x | MS63421 | V8260TCL42 | 5/50 | | 1 | 12 | OK | 25uL ABK, AA, EC/ 50mL |
| 2a | 221298 | IB | | NA | | | 5 | | | 13 | OK | |
| 2a | 221299 | JD54347-3 | 2 | NA | MS63447 | V8260TICS+ | 5 | | 1 | 14 | OK | |
| 2a | 221300 | JD54347-4 | 1 | NA | MS63447 | V8260TICS+ | 5 | | 1 | 15 | OK | |
| 2a | 221301 | JD54250-4 | 2 | 10x | MS63398 | V8260TCL20+ | 5/50 | | 1 | 16 | RR | CC HIT, O/D |
| 2a | 221302 | JD54250-5 | 2 | 5x | MS63398 | V8260TCL20+ | 10/50 | | 1 | 17 | RR | CC HIT, O/D |
| 2a | 221303 | JD54250-1 | 2 | NA | MS63398 | V8260TCL20+ | 5 | | 1 | 18 | OK | |
| 2a | 221304 | JD54250-2 | 2 | NA | MS63398 | V8260TCL20+ | 5 | | 1 | 19 | RR | CC HIT |
| 2a | 221305 | JD54250-3 | 2 | NA | MS63398 | V8260TCL20+ | 5 | | 1 | 20 | RR | CC HIT, F/D |
| 2a | 221306 | JD54250-6 | 2 | NA | MS63398 | V8260TCL20+ | 5 | | 1 | 21 | OK | |
| 2a | 221307 | JD54250-7 | 4 | NA | MS63398 | V8260TCL20+ | 5 | | 1 | 22 | OK | |
| 2a | 221308 | JD54302-1 | 2 | NA | MS63421 | V8260TCL42 | 5 | | 1 | 23 | OK | 8:44A.M. |
| 2a | 221309 | JD54302-2 | 2 | NA | MS63421 | V8260TCL42 | 5 | | | 24 | NR | |
| 2a | 221310 | JD54302-3 | 2 | NA | MS63421 | V8260TCL42 | 5 | | | 25 | NR | |

# GCMS Volatile Run Log



| Standard / Reagents | Lot # | | | | | |
|---|---|---|---|---|---|---|
| Standard | ABK: V022-2756-10.25 | EC: V022-2756-13.2 | AA :V022-2756-24.21 | EXT PA v022-2752-137.1 | Column | Rxi-624(60mx0.25mmx1.4um) |
| Standard Concentration | 100-10,000ppm | 100ppm | 100ppm | 100ppm | Method | V8260D |
| Expiration Date | 11/18/22 | 10/27/22 | 11/27/2022 | 11/13/22 | Init Calib Date | 10/27/22 |
| Internal Surrogate | V022-2752-136 | | | | | |
| Internal Surrogate Concentration | 50/500ppm | | | | Analysis Date | 10/27/2022 |
| Expiration Date | 10/30/2022 | | | | Sequence loaded by | Prashant S |
| Standard | EXT ABK v022-2752-144.5 | EXT EC v022-2756-22.2 | EXT Acro v022-2756-25.4 | EXT Chlorodifluoromethane | Data processed by | Bridget Kelly |
| Standard Concentration | 100-10,000ppm | 100ppm | 100ppm | 100ppm | Batch ID | VL10548 |
| Expiration Date | 11/8/22 | 11/3/22 | 11/27/2022 | 11/24/22 | Matrix | AQ |
| | | | | | Approved By: | MOHUI |
| pH paper Lot# (narrow range): | 222221 | 8/1/2024 | Initial Calibration Method | ML10548 | Approved Date: | 11/8/2022 9:19:35 AM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | 348706 | IB | | NA | | | 5 | | | 1 | ok | |
| I | 348707 | BFB | | NA | | | 5 | | | 2 | ok | |
| I | 348708 | IC10548-0.2 | | NA | | | 5 | | | 3 | ok | 2 uL ABK EC AA / 1000 mL |
| I | 348709 | IC10548-0.5 | | NA | | | 5 | | | 4 | ok | 5 uL ABK EC AA / 1000 mL |
| I | 348710 | IC10548-1 | | NA | | | 5 | | | 5 | ok | 1 uL ABK EC AA / 100 mL |
| I | 348711 | IC10548-2 | | NA | | | 5 | | | 6 | ok | 2 uL ABK EC AA / 100 mL |
| I | 348712 | IC10548-4 | | NA | | | 5 | | | 7 | ok | 4 uL ABK EC AA / 100 mL |
| I | 348713 | IC10548-8 | | NA | | | 5 | | | 8 | ok | 8 uL ABK EC AA / 100 mL |
| I | 348714 | IC10548-20 | | NA | | | 5 | | | 9 | ok | 20 uL ABK EC AA / 100 mL |
| I | 348715 | ICC10548-50 | | NA | | | 5 | | | 10 | ok | 50 uL ABK EC AA / 100 mL |
| I | 348716 | IC10548-100 | | NA | | | 5 | | | 11 | ok | 100 uL ABK EC AA / 100 mL |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | 348717 | IC10548-200 | | NA | | | 5 | | | 12 | ok | 200 uL ABK EC AA / 100 mL |
| I | 348718 | IB | | NA | | | 5 | | | 13 | ok | |
| I | 348719 | IB | | NA | | | 5 | | | 14 | ok | |
| I | 348720 | ICV10548-50 | | NA | | | 5 | | | 15 | ok | 50 uL EXT ABK EC Acro / 100 mL |
| I | 348721 | ICV10548-50 | | NA | | | 5 | | | 16 | ok | 50 uL EXT PA Chlorodifluoromethane |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | | |
|---|---|---|---|---|---|---|
| Standard | ABK: V022-2756-10.24 | EC: V022-2756-16.2 | AA :V022-2756-24.1 | | Column | Rxi-624(60mx0.25mmx1.4um) |
| Standard Concentration | 100-10,000ppm | 100ppm | 100ppm | | Method | V8260D |
| Expiration Date | 11/18/22 | 11/1/2022 | 11/27/2022 | | Init Calib Date | 10/27/22 |
| Internal Surrogate | V022-2752-136 | | | | | |
| Internal Surrogate Concentration | 50/500ppm | | | | Analysis Date | 10/29/2022 |
| Expiration Date | 10/30/2022 | | | | Sequence loaded by | Bridget Kelly |
| | | | | | Data processed by | angieg |
| | | | | | Batch ID | VL10552 |
| Rough reviewed by | | | | | Matrix | AQ |
| | | | | | Approved By: | MEI |
| pH paper Lot# (narrow range): | 222221 | 8/1/2024 | Initial Calibration Method | ML10548 | Approved Date: | 11/1/2022 6:26:22 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | 348797 | IB | | NA | | | 5 | | | 1 | ok | |
| I | 348798 | CC10548-20 | | NA | | | 5 | | | 2 | not used | 20 uL ABK EC AA / 100 mL |
| I | 348799 | BFB/CC10548-20 | | NA | | | 5 | | | 3 | ok/ok | 10:33am 20 uL ABK EC AA / 100 mL |
| I | 348800 | CC10548-1 | | NA | | | 5 | | | 4 | ok | 1 uL ABK EC AA / 100 mL |
| I | 348801 | BS | | NA | | | 5 | | | 5 | ok | 50 uL ABK EC AA / 100 mL |
| I | 348802 | IB | | NA | | | 5 | | | 6 | ok | |
| I | 348803 | MB | | NA | | | 5 | | | 7 | ok | |
| I | 348804 | JD54302-4 | 1 | NA | MS63421 | V8260TCL42 | 5 | | 1 | 8 | rr | f/d |
| I | 348805 | JD54227-6 | 1 | 10x | MS63376 | V8260TCL20 | 5/50 | | 1 | 9 | ok | |
| I | 348806 | JD54227-6 | 1 | NA | MS63376 | V8260TCL20 | 5 | | 1 | 10 | rr | f/d |
| I | 348807 | JD54210-28 | 2 | 250x | MS63354 | V8260MASTD | 0.2/50 | | 1 | 11 | ok | |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | 348808 | JD54210-32 | 2 | 500x | MS63354 | V8260MASTD | 0.1/50 | | 1 | 12 | ok | |
| I | 348809 | JD54108-4 | 2 | 50x | MS63384 | V8260SL | 1/50 | | 1 | 13 | ok | dilution due to NT |
| I | 348810 | JD54108-5 | 2 | 50x | MS63384 | V8260SL | 1/50 | | 1 | 14 | ok | |
| I | 348811 | JD54108-4MS | 2 | 50x | MS63384 | V8260SL | 1/50 | | 1 | 15 | ok | 25 uL ABK EC AA / 50 mL |
| I | 348812 | JD54108-4MSD | 2 | 50x | MS63384 | V8260SL | 1/50 | | 1 | 16 | ok | 25 uL ABK EC AA / 50 mL |
| I | 348813 | IB | | NA | | | 5 | | | 17 | ok | |
| I | 348814 | JD54085-3 | 2 | NA | MS63305 | V8260MA8010L | 5 | | 1 | 18 | ok | |
| I | 348815 | JD54263-11 | 3 | NA | MS63401 | V8260CP51GTCL20 | 5 | | 1 | 19 | ok | |
| I | 348816 | JD54302-2 | 2 | NA | MS63421 | V8260TCL42 | 5 | | 1 | 20 | ok | |
| I | 348817 | JD54302-3 | 2 | NA | MS63421 | V8260TCL42 | 5 | | 1 | 21 | ok | |
| I | 348818 | JD54435-1 | 1 | NA | MS63499 | V8260BTXMT | 5 | | 1 | 22 | ok | |
| I | 348819 | JD54435-2 | 1 | NA | MS63499 | V8260BTXMT | 5 | | 1 | 23 | ok | |
| I | 348820 | JD54435-3 | 1 | NA | MS63499 | V8260BTXMT | 5 | | 1 | 24 | ok | |
| I | 348821 | JD54435-4 | 1 | 10x | MS63499 | V8260BTXMT | 5/50 | | 1 | 25 | ok | |
| I | 348822 | JD54435-5 | 2 | NA | MS63499 | V8260BTXMT | 5 | | 1 | 26 | ok | |
| I | 348823 | JD54435-6 | 2 | NA | MS63499 | V8260BTXMT | 5 | | 1 | 27 | ok | |
| I | 348824 | JD54435-7 | 1 | NA | MS63499 | V8260BTXMT | 5 | | 1 | 28 | ok | |
| I | 348825 | JD54435-8 | 1 | NA | MS63499 | V8260BTXMT | 5 | | 1 | 29 | ok | |
| I | 348826 | JD54085-1 | 2 | 2500x | MS63305 | V8260MA8010L | 20uL/50 mL | | 1 | 30 | ok | |
| I | 348827 | JD54085-1 | 2 | 250x | MS63305 | V8260MA8010L | 0.2/50 | | 1 | 31 | rr | f/d |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | 348828 | JD54085-2 | 2 | 500x | MS63305 | V8260MA8010L | 0.1/50 | | 1 | 32 | ok | |
| I | 348829 | JD54085-2 | 2 | 50x | MS63305 | V8260MA8010L | 1/50 | | 1 | 33 | rr | f/d; 10:25pm |
| I | 348830 | IB | | NA | | | 5 | | | 34 | ok | |

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*
*Automated Report*

Technical Report for

WSP USA Environment & Infrastructure Inc

EPT, Ithaca, NY

31405608.001 02

SGS Job Number: JD54338

Sampling Date: 10/24/22

Report to:

WSP
13530 DULLES TECHNOLOGY DRIVE Suite 300
Herndon, VA 20171
Nathaniel.Winston@wsp.com; jeffrey.baker@wsp.com

ATTN: Nathaniel Winston

Total number of pages in report: **640**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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SGS North America Inc.

# Sample Summary

WSP USA Environment & Infrastructure Inc

**Job No:** JD54338

EPT, Ithaca, NY
Project No: 31405608.001 02

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| This report contains results reported as ND = Not detected. The following applies: | | | | | | | |
| Organics ND = Not detected above the MDL | | | | | | | |
| JD54338-1 | 10/24/22 | 12:00 | NW | 10/25/22 | AIR | Soil Vapor Comp. | VPOST GAC |
| JD54338-2 | 10/24/22 | 12:20 | NW | 10/25/22 | AIR | Soil Vapor Comp. | VINF |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | WSP USA Environment & Infrastructure Inc | **Job No** | JD54338 |
| **Site:** | EPT, Ithaca, NY | **Report Date** | 11/10/2022 2:34:24 P |

On 10/25/2022, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of XXXXNO TEMPERATURE FOUNDXXXX C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD54338 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

## MS Volatiles By Method TO-15

**Matrix:** AIR **Batch ID:** V6W1137

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD53652-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

**Matrix:** AIR **Batch ID:** V6W1138

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD54423-15DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

# Summary of Hits

**Job Number:** JD54338
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 10/24/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **JD54338-1** | **VPOST GAC** | | | | | |
| Acetone (2-Propanone) | | 11.6 | 0.80 | 0.58 | ppbv | TO-15 |
| Benzene | | 3.0 | 0.80 | 0.25 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.53 J | 0.80 | 0.13 | ppbv | TO-15 |
| cis-1,2-Dichloroethylene | | 6.4 | 0.16 | 0.31 | ppbv | TO-15 |
| Ethanol | | 39.8 | 2.0 | 1.6 | ppbv | TO-15 |
| Ethyl Acetate | | 411 | 8.0 | 4.2 | ppbv | TO-15 |
| Heptane | | 0.42 J | 0.80 | 0.37 | ppbv | TO-15 |
| Isopropyl Alcohol | | 5.5 | 0.80 | 0.56 | ppbv | TO-15 |
| Methylene chloride | | 2.4 | 0.80 | 0.22 | ppbv | TO-15 |
| Toluene | | 11.3 | 0.80 | 0.23 | ppbv | TO-15 |
| Trichloroethylene | | 9.5 | 0.16 | 0.076 | ppbv | TO-15 |
| Trichlorofluoromethane | | 0.45 | 0.40 | 0.14 | ppbv | TO-15 |
| Vinyl chloride | | 1.5 | 0.16 | 0.28 | ppbv | TO-15 |
| Vinyl Acetate | | 7.7 | 0.80 | 0.45 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 27.6 | 1.9 | 1.4 | ug/m3 | TO-15 |
| Benzene | | 9.6 | 2.6 | 0.80 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 2.6 J | 4.0 | 0.64 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethylene | | 25 | 0.63 | 1.2 | ug/m3 | TO-15 |
| Ethanol | | 75.0 | 3.8 | 3.0 | ug/m3 | TO-15 |
| Ethyl Acetate | | 1480 | 29 | 15 | ug/m3 | TO-15 |
| Heptane | | 1.7 J | 3.3 | 1.5 | ug/m3 | TO-15 |
| Isopropyl Alcohol | | 14 | 2.0 | 1.4 | ug/m3 | TO-15 |
| Methylene chloride | | 8.3 | 2.8 | 0.76 | ug/m3 | TO-15 |
| Toluene | | 42.6 | 3.0 | 0.87 | ug/m3 | TO-15 |
| Trichloroethylene | | 51 | 0.86 | 0.41 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 2.5 | 2.2 | 0.79 | ug/m3 | TO-15 |
| Vinyl chloride | | 3.8 | 0.41 | 0.72 | ug/m3 | TO-15 |
| Vinyl Acetate | | 27 | 2.8 | 1.6 | ug/m3 | TO-15 |
| **JD54338-2** | **VINF** | | | | | |
| Acetone (2-Propanone) | | 8.8 | 0.80 | 0.58 | ppbv | TO-15 |
| Benzene | | 0.74 J | 0.80 | 0.25 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.50 J | 0.80 | 0.13 | ppbv | TO-15 |
| cis-1,2-Dichloroethylene | | 7.3 | 0.16 | 0.31 | ppbv | TO-15 |
| Ethanol | | 17.2 | 2.0 | 1.6 | ppbv | TO-15 |
| Ethyl Acetate | | 141 | 0.80 | 0.42 | ppbv | TO-15 |
| Isopropyl Alcohol | | 2.1 | 0.80 | 0.56 | ppbv | TO-15 |
| Methylene chloride | | 2.0 | 0.80 | 0.22 | ppbv | TO-15 |
| Toluene | | 2.6 | 0.80 | 0.23 | ppbv | TO-15 |
| Trichloroethylene | | 3.1 | 0.16 | 0.076 | ppbv | TO-15 |
| Vinyl Acetate | | 1.4 | 0.80 | 0.45 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 21 | 1.9 | 1.4 | ug/m3 | TO-15 |

# Summary of Hits

**Job Number:** JD54338
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 10/24/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| Benzene | | 2.4 J | 2.6 | 0.80 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 2.5 J | 4.0 | 0.64 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethylene | | 29 | 0.63 | 1.2 | ug/m3 | TO-15 |
| Ethanol | | 32.4 | 3.8 | 3.0 | ug/m3 | TO-15 |
| Ethyl Acetate | | 507 | 2.9 | 1.5 | ug/m3 | TO-15 |
| Isopropyl Alcohol | | 5.2 | 2.0 | 1.4 | ug/m3 | TO-15 |
| Methylene chloride | | 6.9 | 2.8 | 0.76 | ug/m3 | TO-15 |
| Toluene | | 9.8 | 3.0 | 0.87 | ug/m3 | TO-15 |
| Trichloroethylene | | 17 | 0.86 | 0.41 | ug/m3 | TO-15 |
| Vinyl Acetate | | 4.9 | 2.8 | 1.6 | ug/m3 | TO-15 |

## Sample Results

Report of Analysis

SGS North America Inc.

# Report of Analysis





**Client Sample ID:** VPOST GAC
**Lab Sample ID:** JD54338-1
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A502
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 10/24/22
**Date Received:** 10/25/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 6W26841.D | 1 | 11/03/22 21:12 | TCH | n/a | n/a | V6W1137 |
| Run #2 | 6W26868.D | 1 | 11/04/22 12:51 | TCH | n/a | n/a | V6W1138 |

| | Initial Volume |
|---|---|
| Run #1 | 100 ml |
| Run #2 | 10.0 ml |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 11.6 | 0.80 | 0.58 | ppbv | | 27.6 | 1.9 | 1.4 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.80 | 0.34 | ppbv | | ND | 1.8 | 0.75 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | 3.0 | 0.80 | 0.25 | ppbv | | 9.6 | 2.6 | 0.80 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.40 | 0.12 | ppbv | | ND | 2.7 | 0.80 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.16 | 0.28 | ppbv | | ND | 1.7 | 2.9 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.1 | 1.1 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.80 | 0.50 | ppbv | | ND | 4.1 | 2.6 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 0.80 | 0.18 | ppbv | | ND | 2.5 | 0.56 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.80 | 0.30 | ppbv | | ND | 3.7 | 1.4 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.80 | 0.27 | ppbv | | ND | 2.1 | 0.71 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 0.80 | 0.15 | ppbv | | ND | 3.9 | 0.73 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 0.80 | 0.36 | ppbv | | ND | 1.7 | 0.74 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.80 | 0.33 | ppbv | | ND | 2.5 | 1.0 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.80 | 0.29 | ppbv | | ND | 4.1 | 1.5 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.16 | 0.16 | ppbv | | ND | 1.0 | 1.0 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 0.80 | 0.44 | ppbv | | ND | 2.8 | 1.5 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.80 | 0.23 | ppbv | | ND | 3.2 | 0.93 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.16 | 0.24 | ppbv | | ND | 0.63 | 0.95 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.40 | 0.39 | ppbv | | ND | 3.1 | 3.0 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | 1.1 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.80 | 0.25 | ppbv | | ND | 3.7 | 1.2 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.80 | 0.47 | ppbv | | ND | 2.9 | 1.7 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.53 | 0.80 | 0.13 | ppbv | J | 2.6 | 4.0 | 0.64 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.40 | 0.21 | ppbv | | ND | 3.4 | 1.8 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | 1.1 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | 6.4 | 0.16 | 0.31 | ppbv | | 25 | 0.63 | 1.2 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.80 | 0.25 | ppbv | | ND | 3.6 | 1.1 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.40 | 0.16 | ppbv | | ND | 2.4 | 0.96 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.16 | 0.62 | ppbv | | ND | 0.96 | 3.7 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.40 | 0.76 | ppbv | | ND | 2.4 | 4.6 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.80 | 0.40 | ppbv | | ND | 3.6 | 1.8 | ug/m3 |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** VPOST GAC
**Lab Sample ID:** JD54338-1
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A502
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 10/24/22
**Date Received:** 10/25/22
**Percent Solids:** n/a

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64-17-5 | 46.07 | Ethanol | 39.8 | 2.0 | 1.6 | ppbv | | 75.0 | 3.8 | 3.0 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 411 [a] | 8.0 | 4.2 | ppbv | | 1480 [a] | 29 | 15 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 0.80 | 0.38 | ppbv | | ND | 3.9 | 1.9 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.40 | 0.12 | ppbv | | ND | 3.1 | 0.92 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.40 | 0.20 | ppbv | | ND | 2.8 | 1.4 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | 0.42 | 0.80 | 0.37 | ppbv | J | 1.7 | 3.3 | 1.5 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.36 | 0.25 | ppbv | | ND | 3.8 | 2.7 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | 1.6 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.80 | 0.58 | ppbv | | ND | 3.3 | 2.4 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 5.5 | 0.80 | 0.56 | ppbv | | 14 | 2.0 | 1.4 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | 2.4 | 0.80 | 0.22 | ppbv | | 8.3 | 2.8 | 0.76 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | ND | 0.80 | 0.44 | ppbv | | ND | 2.4 | 1.3 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.80 | 0.29 | ppbv | | ND | 3.3 | 1.2 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.80 | 0.32 | ppbv | | ND | 2.9 | 1.2 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.80 | 0.28 | ppbv | | ND | 3.3 | 1.1 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 2.0 | 0.57 | ppbv | | ND | 3.4 | 0.98 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 0.80 | 0.47 | ppbv | | ND | 3.4 | 2.0 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.40 | 0.19 | ppbv | | ND | 2.7 | 1.3 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.40 | 0.48 | ppbv | | ND | 3.0 | 3.6 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 0.80 | 0.35 | ppbv | | ND | 3.9 | 1.7 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 0.80 | 0.32 | ppbv | | ND | 3.9 | 1.6 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 0.80 | 0.38 | ppbv | | ND | 3.7 | 1.8 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 0.80 | 0.37 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | ND | 0.16 | 0.056 | ppbv | | ND | 1.1 | 0.38 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.80 | 0.36 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 11.3 | 0.80 | 0.23 | ppbv | | 42.6 | 3.0 | 0.87 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 9.5 | 0.16 | 0.076 | ppbv | | 51 | 0.86 | 0.41 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | 0.45 | 0.40 | 0.14 | ppbv | | 2.5 | 2.2 | 0.79 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | 1.5 | 0.16 | 0.28 | ppbv | | 3.8 | 0.41 | 0.72 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | 7.7 | 0.80 | 0.45 | ppbv | | 27 | 2.8 | 1.6 | ug/m3 |
| | 106.2 | m,p-Xylene | ND | 0.80 | 0.56 | ppbv | | ND | 3.5 | 2.4 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 99% | 97% | 65-128% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | VPOST GAC | | |
| **Lab Sample ID:** | JD54338-1 | **Date Sampled:** | 10/24/22 |
| **Matrix:** | AIR - Soil Vapor Comp. Summa ID: A502 | **Date Received:** | 10/25/22 |
| **Method:** | TO-15 | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





**Client Sample ID:** VINF
**Lab Sample ID:** JD54338-2
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A409
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 10/24/22
**Date Received:** 10/25/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 6W26842.D | 1.48 | 11/03/22 21:46 | TCH | n/a | n/a | V6W1137 |
| Run #2 | | | | | | | |

| | Initial Volume |
|---|---|
| Run #1 | 148 ml |
| Run #2 | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 8.8 | 0.80 | 0.58 | ppbv | | 21 | 1.9 | 1.4 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.80 | 0.34 | ppbv | | ND | 1.8 | 0.75 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | 0.74 | 0.80 | 0.25 | ppbv | J | 2.4 | 2.6 | 0.80 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.40 | 0.12 | ppbv | | ND | 2.7 | 0.80 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.16 | 0.28 | ppbv | | ND | 1.7 | 2.9 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.1 | 1.1 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.80 | 0.50 | ppbv | | ND | 4.1 | 2.6 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 0.80 | 0.18 | ppbv | | ND | 2.5 | 0.56 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.80 | 0.30 | ppbv | | ND | 3.7 | 1.4 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.80 | 0.27 | ppbv | | ND | 2.1 | 0.71 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 0.80 | 0.15 | ppbv | | ND | 3.9 | 0.73 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 0.80 | 0.36 | ppbv | | ND | 1.7 | 0.74 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.80 | 0.33 | ppbv | | ND | 2.5 | 1.0 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.80 | 0.29 | ppbv | | ND | 4.1 | 1.5 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.16 | 0.16 | ppbv | | ND | 1.0 | 1.0 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 0.80 | 0.44 | ppbv | | ND | 2.8 | 1.5 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.80 | 0.23 | ppbv | | ND | 3.2 | 0.93 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.16 | 0.24 | ppbv | | ND | 0.63 | 0.95 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.40 | 0.39 | ppbv | | ND | 3.1 | 3.0 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | 1.1 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.80 | 0.25 | ppbv | | ND | 3.7 | 1.2 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.80 | 0.47 | ppbv | | ND | 2.9 | 1.7 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.50 | 0.80 | 0.13 | ppbv | J | 2.5 | 4.0 | 0.64 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.40 | 0.21 | ppbv | | ND | 3.4 | 1.8 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | 1.1 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | 7.3 | 0.16 | 0.31 | ppbv | | 29 | 0.63 | 1.2 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.80 | 0.25 | ppbv | | ND | 3.6 | 1.1 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.40 | 0.16 | ppbv | | ND | 2.4 | 0.96 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.16 | 0.62 | ppbv | | ND | 0.96 | 3.7 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.40 | 0.76 | ppbv | | ND | 2.4 | 4.6 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.80 | 0.40 | ppbv | | ND | 3.6 | 1.8 | ug/m3 |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** VINF
**Lab Sample ID:** JD54338-2
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A409
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 10/24/22
**Date Received:** 10/25/22
**Percent Solids:** n/a

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64-17-5 | 46.07 | Ethanol | 17.2 | 2.0 | 1.6 | ppbv | | 32.4 | 3.8 | 3.0 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 141 | 0.80 | 0.42 | ppbv | | 507 | 2.9 | 1.5 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 0.80 | 0.38 | ppbv | | ND | 3.9 | 1.9 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.40 | 0.12 | ppbv | | ND | 3.1 | 0.92 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.40 | 0.20 | ppbv | | ND | 2.8 | 1.4 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | ND | 0.80 | 0.37 | ppbv | | ND | 3.3 | 1.5 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.36 | 0.25 | ppbv | | ND | 3.8 | 2.7 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | 1.6 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.80 | 0.58 | ppbv | | ND | 3.3 | 2.4 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 2.1 | 0.80 | 0.56 | ppbv | | 5.2 | 2.0 | 1.4 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | 2.0 | 0.80 | 0.22 | ppbv | | 6.9 | 2.8 | 0.76 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | ND | 0.80 | 0.44 | ppbv | | ND | 2.4 | 1.3 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.80 | 0.29 | ppbv | | ND | 3.3 | 1.2 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.80 | 0.32 | ppbv | | ND | 2.9 | 1.2 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.80 | 0.28 | ppbv | | ND | 3.3 | 1.1 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 2.0 | 0.57 | ppbv | | ND | 3.4 | 0.98 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 0.80 | 0.47 | ppbv | | ND | 3.4 | 2.0 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.40 | 0.19 | ppbv | | ND | 2.7 | 1.3 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.40 | 0.48 | ppbv | | ND | 3.0 | 3.6 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 0.80 | 0.35 | ppbv | | ND | 3.9 | 1.7 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 0.80 | 0.32 | ppbv | | ND | 3.9 | 1.6 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 0.80 | 0.38 | ppbv | | ND | 3.7 | 1.8 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 0.80 | 0.37 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | ND | 0.16 | 0.056 | ppbv | | ND | 1.1 | 0.38 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.80 | 0.36 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 2.6 | 0.80 | 0.23 | ppbv | | 9.8 | 3.0 | 0.87 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 3.1 | 0.16 | 0.076 | ppbv | | 17 | 0.86 | 0.41 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | ND | 0.40 | 0.14 | ppbv | | ND | 2.2 | 0.79 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | ND | 0.16 | 0.28 | ppbv | | ND | 0.41 | 0.72 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | 1.4 | 0.80 | 0.45 | ppbv | | 4.9 | 2.8 | 1.6 | ug/m3 |
| | 106.2 | m,p-Xylene | ND | 0.80 | 0.56 | ppbv | | ND | 3.5 | 2.4 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 65-128% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

## Misc. Forms

# Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle
- 2021 MDL Study - Method: TO-15

SGS

Air

# CHAIN OF CUSTODY - AIR

PAGE 1 OF 1

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking # 584473675729 | Bottle Order Control # TS-112321-189
SGS Quote # | SGS Job # JD54339

**Client / Reporting Information**

Company Name: WSP USA
Address: 40 La Riviere Dr. Ste 330
City: Buffalo State: NY Zip: 14202
Project Contact: Jeff Baker E-mail: Jeffrey.Baker@wsp.com
Phone #: 734-883-9723
Sampler(s) Name(s):

**Project Information**

Project Name: EPT, Ithaca, NY
Street:
City: Ithaca State: NY
Project #: 31405644.001 C'd
Client Purchase Order #:

**Weather Parameters**

Temperature (Fahrenheit) Start: Maximum: Stop: Minimum:
Atmoshpheric Pressure (inches of Hg) Start: Maximum: Stop: Minimum:
Other weather comment:

**Requested Analysis**

TO-15

| Lab Sample # | Field ID / Point of Collection | Air Type: Ind (I) Soil Vap (SV) Amb (A) | Air Type: Res (R) Non-Res (NR) | Sampling Equipment Info: Canister Serial # | Canister Size 6L or 1L | Flow Controller Serial # | Start Sampling Information: Date | Time (24hr clock) | Canister Pressure ("Hg) | Interior Temp (F) | Sampler Init. | Stop Sampling Information: Date | Time (24hr clock) | Canister Pressure ("Hg) | Interior Temp (F) | Sampler Init. | TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | VPOST 6IAC | SV | NR | A502 | 1-L | — | — | — | — | — | — | 10/24/22 | 1300 | - | 66 | NW | X |
| 2 | VINF | SV | NR | 1104 | 1-L | — | — | — | — | — | — | 10/24/22 | 1330 | - | 66 | NW | X |

WSP
EPT Ithaca NY
TS-112321-189



Please place on the back of original (white copy of COC
This will assist us in processing your samples
Thank You

**Turnaround Time**

- [ ] 15 Business Days
- [X] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days *
- [ ] 2 Business Days *
- [ ] 1 Business Day *
- [ ] Other

Approved by: Date:
* Approval needed for 1-3 Business Day TAT

**Data Deliverable Information**

All NJDEP TO-15 is mandatory Full T1
Comm A
Comm B
Reduced T2
Full T1
Other:
DKQP reporting
NYSCATS

**Comments / Remarks**

Initial Assessment: YB 10/25
Label Verification:
Sample inventory is verified upon receipt in the Laboratory

**Sample Custody must be documented below each time samples change possession, including courier delivery.**

| Relinquished by Laboratory: | Date / Time: | Received By: | Relinquished By: | Date / Time: | Received By: |
|---|---|---|---|---|---|
| 1 W. | 10/25/22 13:15 | 1 | 2 | | 2 |
| 3 | 10/24/22 1500 | 3 Fed Ex | 4 Fed Ex | 10/25/22 9:30 | 4 |
| 5 | | 5 | Custody Seal # | | |

http://www.sgs.com/en/terms-and-conditions

EHSA-QAC-0022-01-FORM-Dayton-Air COC
Rev.date:1/15/2021

# SGS Sample Receipt Summary

**Job Number:** JD54338 **Client:** WSP **Project:** EPT, ITHACA, NY

**Date / Time Received:** 10/25/2022 9:30:00 AM **Delivery Method:** Fed Ex **Airbill #'s:** 5894 7367 5179

**Cooler Temps (Raw Measured) °C:**

**Cooler Temps (Corrected) °C:**

| Cooler Security | Y | or | N | | Y | or | N |
|---|---|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | | ☐ | 3. COC Present: | ☑ | | ☐ |
| 2. Custody Seals Intact: | ☑ | | ☐ | 4. Smpl Dates/Time OK | ☑ | | ☐ |

| Cooler Temperature | Y | or | N |
|---|---|---|---|
| 1. Temp criteria achieved: | ☐ | | ☐ |
| 2. Cooler temp verification: | N/A | | |
| 3. Cooler media: | N/A | | |
| 4. No. Coolers: | N/A | | |

| Quality Control Preservation | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Trip Blank present / cooler: | ☐ | | ☐ | ☑ |
| 2. Trip Blank listed on COC: | ☐ | | ☐ | ☑ |
| 3. Samples preserved properly: | ☑ | | ☐ | |
| 4. VOCs headspace free: | ☐ | | ☐ | ☑ |

| Sample Integrity - Documentation | Y | or | N |
|---|---|---|---|
| 1. Sample labels present on bottles: | ☑ | | ☐ |
| 2. Container labeling complete: | ☑ | | ☐ |
| 3. Sample container label / COC agree: | ☑ | | ☐ |

| Sample Integrity - Condition | Y | or | N |
|---|---|---|---|
| 1. Sample recvd within HT: | ☑ | | ☐ |
| 2. All containers accounted for: | ☑ | | ☐ |
| 3. Condition of sample: | Intact | | |

| Sample Integrity - Instructions | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | | ☐ | |
| 4. Compositing instructions clear: | ☐ | | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | | ☐ | ☑ |

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

**JD54338: Chain of Custody**
**Page 2 of 2**

# Summa Canister and Flow Controller Log



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Received:** 10/25/22

**SUMMA CANISTERS**

| Shipping | | | | | | | Receiving | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Summa ID | L | Vac " Hg | Date Out | By | SCC Batch | SCC FileID | Sample Number | Date In | By | Vac " Hg | Pres psig | Final psig | Dil Fact |
| A502 | 1 | 29.4 | 10/04/22 | ML | CP11846 | 6W25454.D | JD54338-1 | 10/26/22 | JL | 0 | | | 1 |
| A409 | 1 | 29.4 | 10/04/22 | ML | CP11872 | 2W61627.D | JD54338-2 | 10/26/22 | JL | 8 | | 1.2 | 1.48 |

**SGS Bottle Order(s):**
TS-112321-189

| Prep Date | Room Temp(F) | Bar Pres "Hg |
|---|---|---|
| 10/04/22 | 70 | 29.92 |

# Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

**Job No:** JD54338

EPT, Ithaca, NY
Project No: 31405608.001 02

| Sample Number | Method | Analyzed | By | Prepped | By | Test Codes |
|---|---|---|---|---|---|---|
| JD54338-1 | Collected: 24-OCT-22 12:00 By: NW | | Received: 25-OCT-22 By: JK | | | |
| VPOST GAC | | | | | | |
| JD54338-1 | TO-15 | 03-NOV-22 21:12 | TCH | | | VTO15NYSVLL |
| JD54338-1 | TO-15 | 04-NOV-22 12:51 | TCH | | | VTO15NYSVLL |
| JD54338-2 | Collected: 24-OCT-22 12:20 By: NW | | Received: 25-OCT-22 By: JK | | | |
| VINF | | | | | | |
| JD54338-2 | TO-15 | 03-NOV-22 21:46 | TCH | | | VTO15NYSVLL |

**SGS North America Inc.-Dayton laboratory**
**TO-15 FINAL MDL for 2020-2021**

| METHOD | RI | LOGINNUM | SPEC_MAT | SAMPLENUM | CLIENTID | MEASUREDATE | INSTRUME | PARM_STO | PARM_SYN | FINAL MDL | RDLVALUE | COMMENT | UNITS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TO-15 | | JD18443D | STYA | JD18443D-4D | MDLV : 0.04 PPBV 2W | 12/30/21 4:00 | GCMS2W | 120-82-1 | 1,2,4-Trichlorobenzene | 0.121 | 0.2 | 2W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-4D | MDLV : 0.04 PPBV 2W | 12/30/21 4:00 | GCMS2W | 541-73-1 | m-Dichlorobenzene | 0.04 | 0.2 | 2W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-4D | MDLV : 0.04 PPBV 2W | 12/30/21 4:00 | GCMS2W | 91-20-3 | Naphthalene | 0.127 | 0.2 | 2W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-4D | MDLV : 0.04 PPBV 2W | 12/30/21 4:00 | GCMS2W | 127-18-4 | Tetrachloroethylene | 0.014 | 0.04 | 2W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-4D | MDLV : 0.04 PPBV 2W | 12/30/21 4:00 | GCMS2W | 79-01-6 | Trichloroethylene | 0.019 | 0.04 | 2W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.042 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 71-55-6 | 1,1,1-Trichloroethane | 0.037 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.048 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 79-00-5 | 1,1,2-Trichloroethane | 0.038 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-34-3 | 1,1-Dichloroethane | 0.057 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-35-4 | 1,1-Dichloroethylene | 0.059 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 96-18-4 | 1,2,3-Trichloropropane | 0.05 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 526-73-8 | 1,2,3-Trimethylbenzene | 0.099 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 95-63-6 | 1,2,4-Trimethylbenzene | 0.087 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 106-93-4 | 1,2-Dibromoethane (EDB) | 0.097 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 107-06-2 | 1,2-Dichloroethane | 0.07 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 78-87-5 | 1,2-Dichloropropane | 0.062 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 108-67-8 | 1,3,5-Trimethylbenzene | 0.062 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 106-99-0 | 1,3-Butadiene | 0.084 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 142-28-9 | 1,3-Dichloropropane | 0.057 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 123-91-1 | 1,4-Dioxane | 0.117 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 540-84-1 | 2,2,4-Trimethylpentane | 0.095 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 565-59-3 | 2,3-Dimethylpentane | 0.089 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 108-08-7 | 2,4-Dimethylpentane | 0.104 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 95-49-8 | 2-Chlorotoluene | 0.072 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 591-78-6 | 2-Hexanone | 0.145 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 107-05-1 | 3-Chloropropene | 0.083 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 622-96-8 | 4-Ethyltoluene | 0.095 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 67-64-1 | Acetone (2-Propanone) | 0.145 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-05-8 | Acetonitrile | 0.171 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 107-02-8 | Acrolein | 0.0883 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 107-13-1 | Acrylonitrile | 0.091 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 71-43-2 | Benzene | 0.062 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 100-44-7 | Benzyl Chloride | 0.125 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 108-86-1 | Bromobenzene | 0.154 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-27-4 | Bromodichloromethane | 0.03 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 593-60-2 | Bromoethene | 0.061 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-25-2 | Bromoform | 0.071 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 74-83-9 | Bromomethane | 0.069 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-15-0 | Carbon disulfide | 0.045 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 56-23-5 | Carbon tetrachloride | 0.04 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 108-90-7 | Chlorobenzene | 0.074 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-45-6 | Chlorodifluoromethane | 0.106 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-00-3 | Chloroethane | 0.068 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 67-66-3 | Chloroform | 0.037 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 74-87-3 | Chloromethane | 0.09 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 79-38-9 | Chlorotrifluoroethene | 0.024 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 156-59-2 | cis-1,2-Dichloroethylene | 0.077 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 10061-01-5 | cis-1,3-Dichloropropene | 0.062 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 110-82-7 | Cyclohexane | 0.11 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 124-48-1 | Dibromochloromethane | 0.052 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 74-95-3 | Dibromomethane | 0.053 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-71-8 | Dichlorodifluoromethane | 0.032 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-43-4 | Dichlorofluoromethane | 0.066 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 108-20-3 | Di-isopropyl ether | 0.082 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 64-17-5 | Ethanol | 0.394 | 0.5 | 5W Q-4 | I ppbv |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 141-78-6 | Ethyl Acetate | 0.104 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 140-88-5 | Ethyl Acrylate | 0.105 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 100-41-4 | Ethylbenzene | 0.061 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 76-13-1 | Freon 113 | 0.031 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 76-14-2 | Freon 114 | 0.05 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443B | STYA | JD18443B-1F | MDLV : 0.2 | PPBV | 3W | 4/27/21 | 5:01 | GCMS3W | 76-15-3 | Freon 115 | 0.0077 | 0.2 | 3W | Q-2 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 306-83-2 | Freon 123 | 0.083 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 354-23-4 | Freon 123A | 0.068 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 75-68-3 | Freon 142B | 0.07 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 75-37-6 | Freon 152A | 0.06 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 142-82-5 | Heptane | 0.092 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 87-68-3 | Hexachlorobutadiene | 0.062 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 67-72-1 | Hexachloroethane | 0.082 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 110-54-3 | Hexane | 0.112 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 74-88-4 | Iodomethane | 0.037 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 67-63-0 | Isopropyl Alcohol | 0.187 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 98-82-8 | Isopropylbenzene | 0.064 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | M,P-XYLEN | m,p-Xylene | 0.139 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 78-93-3 | Methyl ethyl ketone | 0.11 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 108-10-1 | Methyl Isobutyl Ketone | 0.073 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 1634-04-4 | Methyl Tert Butyl Ether | 0.08 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 75-09-2 | Methylene chloride | 0.056 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 80-62-6 | Methylmethacrylate | 0.07 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 106-97-8 | n-Butane | 0.106 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 104-51-8 | n-Butylbenzene | 0.106 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 111-84-2 | Nonane | 0.1 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 103-65-1 | n-Propylbenzene | 0.091 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 111-65-9 | Octane | 0.12 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 95-50-1 | o-Dichlorobenzene | 0.154 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 95-47-6 | o-Xylene | 0.077 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 106-46-7 | p-Dichlorobenzene | 0.191 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 109-66-0 | Pentane | 0.138 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 99-87-6 | p-Isopropyltoluene | 0.08 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 115-07-1 | Propylene | 0.142 | 0.5 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 135-98-8 | sec-Butylbenzene | 0.081 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 100-42-5 | Styrene | 0.118 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 98-06-6 | tert-Butylbenzene | 0.083 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 75-65-0 | Tertiary Butyl Alcohol | 0.093 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 109-99-9 | Tetrahydrofuran | 0.09 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 108-88-3 | Toluene | 0.057 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 156-60-5 | trans-1,2-Dichloroethylene | 0.069 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 10061-02-6 | trans-1,3-Dichloropropene | 0.101 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 75-69-4 | Trichlorofluoromethane | 0.036 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | TVHC AS EC | TVHC As Equiv Pentane | 0.136 | 10 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 108-05-4 | Vinyl Acetate | 0.112 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 75-01-4 | Vinyl chloride | 0.069 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-4E | MDLV : 0.1 | PPBV | 2W | 12/30/21 | 4:35 | GCMS2W | 67-63-0 | Isopropyl Alcohol | 0.141 | 0.2 | 2W | Q-4 | I | ppbv |

## MS Volatiles

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### QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Initial Calibration RT/ISTD Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

# Method Blank Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1137-MB | 6W26830.D | 1 | 11/03/22 | TCH | n/a | n/a | V6W1137 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD54338-1, JD54338-2

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | ND | 0.20 | 0.15 | ppbv | | ND | 0.48 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | ND | 0.20 | 0.084 | ppbv | | ND | 0.44 | ug/m3 |
| 71-43-2 | Benzene | ND | 0.20 | 0.062 | ppbv | | ND | 0.64 | ug/m3 |
| 75-27-4 | Bromodichloromethane | ND | 0.20 | 0.030 | ppbv | | ND | 1.3 | ug/m3 |
| 75-25-2 | Bromoform | ND | 0.20 | 0.071 | ppbv | | ND | 2.1 | ug/m3 |
| 74-83-9 | Bromomethane | ND | 0.20 | 0.069 | ppbv | | ND | 0.78 | ug/m3 |
| 593-60-2 | Bromoethene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 100-44-7 | Benzyl Chloride | ND | 0.20 | 0.13 | ppbv | | ND | 1.0 | ug/m3 |
| 75-15-0 | Carbon disulfide | ND | 0.20 | 0.045 | ppbv | | ND | 0.62 | ug/m3 |
| 108-90-7 | Chlorobenzene | ND | 0.20 | 0.074 | ppbv | | ND | 0.92 | ug/m3 |
| 75-00-3 | Chloroethane | ND | 0.20 | 0.068 | ppbv | | ND | 0.53 | ug/m3 |
| 67-66-3 | Chloroform | ND | 0.20 | 0.037 | ppbv | | ND | 0.98 | ug/m3 |
| 74-87-3 | Chloromethane | ND | 0.20 | 0.090 | ppbv | | ND | 0.41 | ug/m3 |
| 107-05-1 | 3-Chloropropene | ND | 0.20 | 0.083 | ppbv | | ND | 0.63 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.20 | 0.072 | ppbv | | ND | 1.0 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.20 | 0.040 | ppbv | | ND | 1.3 | ug/m3 |
| 110-82-7 | Cyclohexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.69 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.20 | 0.057 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.20 | 0.059 | ppbv | | ND | 0.79 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | 0.20 | 0.097 | ppbv | | ND | 1.5 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.20 | 0.070 | ppbv | | ND | 0.81 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.20 | 0.062 | ppbv | | ND | 0.92 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | ND | 0.20 | 0.12 | ppbv | | ND | 0.72 | ug/m3 |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.20 | 0.032 | ppbv | | ND | 0.99 | ug/m3 |
| 124-48-1 | Dibromochloromethane | ND | 0.20 | 0.052 | ppbv | | ND | 1.7 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.069 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.79 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.20 | 0.062 | ppbv | | ND | 0.91 | ug/m3 |
| 541-73-1 | m-Dichlorobenzene | ND | 0.20 | 0.040 | ppbv | | ND | 1.2 | ug/m3 |
| 95-50-1 | o-Dichlorobenzene | ND | 0.20 | 0.15 | ppbv | | ND | 1.2 | ug/m3 |
| 106-46-7 | p-Dichlorobenzene | ND | 0.20 | 0.19 | ppbv | | ND | 1.2 | ug/m3 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.20 | 0.10 | ppbv | | ND | 0.91 | ug/m3 |
| 64-17-5 | Ethanol | ND | 0.50 | 0.39 | ppbv | | ND | 0.94 | ug/m3 |
| 100-41-4 | Ethylbenzene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 141-78-6 | Ethyl Acetate | ND | 0.20 | 0.10 | ppbv | | ND | 0.72 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | ND | 0.20 | 0.095 | ppbv | | ND | 0.98 | ug/m3 |

# Method Blank Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1137-MB | 6W26830.D | 1 | 11/03/22 | TCH | n/a | n/a | V6W1137 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD54338-1, JD54338-2

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | 0.20 | 0.031 | ppbv | | ND | 1.5 | ug/m3 |
| 76-14-2 | Freon 114 | ND | 0.20 | 0.050 | ppbv | | ND | 1.4 | ug/m3 |
| 142-82-5 | Heptane | ND | 0.20 | 0.092 | ppbv | | ND | 0.82 | ug/m3 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.20 | 0.062 | ppbv | | ND | 2.1 | ug/m3 |
| 110-54-3 | Hexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| 591-78-6 | 2-Hexanone | ND | 0.20 | 0.15 | ppbv | | ND | 0.82 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | ND | 0.20 | 0.14 | ppbv | | ND | 0.49 | ug/m3 |
| 75-09-2 | Methylene chloride | ND | 0.20 | 0.056 | ppbv | | ND | 0.69 | ug/m3 |
| 78-93-3 | Methyl ethyl ketone | ND | 0.20 | 0.11 | ppbv | | ND | 0.59 | ug/m3 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | 0.20 | 0.073 | ppbv | | ND | 0.82 | ug/m3 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.20 | 0.080 | ppbv | | ND | 0.72 | ug/m3 |
| 80-62-6 | Methylmethacrylate | ND | 0.20 | 0.070 | ppbv | | ND | 0.82 | ug/m3 |
| 115-07-1 | Propylene | ND | 0.50 | 0.14 | ppbv | | ND | 0.86 | ug/m3 |
| 100-42-5 | Styrene | ND | 0.20 | 0.12 | ppbv | | ND | 0.85 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.20 | 0.037 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.20 | 0.038 | ppbv | | ND | 1.1 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.20 | 0.12 | ppbv | | ND | 1.5 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.20 | 0.087 | ppbv | | ND | 0.98 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.20 | 0.080 | ppbv | | ND | 0.98 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | 0.20 | 0.095 | ppbv | | ND | 0.93 | ug/m3 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 0.20 | 0.093 | ppbv | | ND | 0.61 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.040 | 0.014 | ppbv | | ND | 0.27 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | ND | 0.20 | 0.090 | ppbv | | ND | 0.59 | ug/m3 |
| 108-88-3 | Toluene | ND | 0.20 | 0.057 | ppbv | | ND | 0.75 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.20 | 0.036 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.20 | 0.069 | ppbv | | ND | 0.51 | ug/m3 |
| 108-05-4 | Vinyl Acetate | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| | m,p-Xylene | ND | 0.20 | 0.14 | ppbv | | ND | 0.87 | ug/m3 |
| 95-47-6 | o-Xylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |
| 1330-20-7 | Xylenes (total) | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |

# Method Blank Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1137-MB | 6W26830.D | 1 | 11/03/22 | TCH | n/a | n/a | V6W1137 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD54338-1, JD54338-2

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 98% | 65-128% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| 124-38-9 | Carbon dioxide | 1.66 | 6.3 | ppbv | JN |
| | Total TIC, Volatile | | 0 | ppbv | |

# Method Blank Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1138-MB | 6W26867.D | 1 | 11/04/22 | TCH | n/a | n/a | V6W1138 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD54338-1

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 141-78-6 | Ethyl Acetate | ND | 0.20 | 0.10 | ppbv | | ND | 0.72 | ug/m3 |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 98% | 65-128% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| 124-38-9 | Carbon dioxide | 1.66 | 5.5 | ppbv | JN |
| | Total TIC, Volatile | | 0 | ppbv | |

# Method Blank Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1083-MB | 6W25444.D | 1 | 08/11/22 | TCH | n/a | n/a | V6W1083 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V6W1083-SCC

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | ND | 0.20 | 0.15 | ppbv | | ND | 0.48 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | ND | 0.20 | 0.084 | ppbv | | ND | 0.44 | ug/m3 |
| 71-43-2 | Benzene | ND | 0.20 | 0.062 | ppbv | | ND | 0.64 | ug/m3 |
| 75-27-4 | Bromodichloromethane | ND | 0.20 | 0.030 | ppbv | | ND | 1.3 | ug/m3 |
| 75-25-2 | Bromoform | ND | 0.20 | 0.071 | ppbv | | ND | 2.1 | ug/m3 |
| 74-83-9 | Bromomethane | ND | 0.20 | 0.069 | ppbv | | ND | 0.78 | ug/m3 |
| 593-60-2 | Bromoethene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 100-44-7 | Benzyl Chloride | ND | 0.20 | 0.13 | ppbv | | ND | 1.0 | ug/m3 |
| 75-15-0 | Carbon disulfide | ND | 0.20 | 0.045 | ppbv | | ND | 0.62 | ug/m3 |
| 108-90-7 | Chlorobenzene | ND | 0.20 | 0.074 | ppbv | | ND | 0.92 | ug/m3 |
| 75-00-3 | Chloroethane | ND | 0.20 | 0.068 | ppbv | | ND | 0.53 | ug/m3 |
| 67-66-3 | Chloroform | ND | 0.20 | 0.037 | ppbv | | ND | 0.98 | ug/m3 |
| 74-87-3 | Chloromethane | ND | 0.20 | 0.090 | ppbv | | ND | 0.41 | ug/m3 |
| 107-05-1 | 3-Chloropropene | ND | 0.20 | 0.083 | ppbv | | ND | 0.63 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.20 | 0.072 | ppbv | | ND | 1.0 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.20 | 0.040 | ppbv | | ND | 1.3 | ug/m3 |
| 110-82-7 | Cyclohexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.69 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.20 | 0.057 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.20 | 0.059 | ppbv | | ND | 0.79 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | 0.20 | 0.097 | ppbv | | ND | 1.5 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.20 | 0.070 | ppbv | | ND | 0.81 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.20 | 0.062 | ppbv | | ND | 0.92 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | ND | 0.20 | 0.12 | ppbv | | ND | 0.72 | ug/m3 |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.20 | 0.032 | ppbv | | ND | 0.99 | ug/m3 |
| 124-48-1 | Dibromochloromethane | ND | 0.20 | 0.052 | ppbv | | ND | 1.7 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.069 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.79 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.20 | 0.062 | ppbv | | ND | 0.91 | ug/m3 |
| 541-73-1 | m-Dichlorobenzene | ND | 0.20 | 0.040 | ppbv | | ND | 1.2 | ug/m3 |
| 95-50-1 | o-Dichlorobenzene | ND | 0.20 | 0.15 | ppbv | | ND | 1.2 | ug/m3 |
| 106-46-7 | p-Dichlorobenzene | ND | 0.20 | 0.19 | ppbv | | ND | 1.2 | ug/m3 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.20 | 0.10 | ppbv | | ND | 0.91 | ug/m3 |
| 64-17-5 | Ethanol | ND | 0.50 | 0.39 | ppbv | | ND | 0.94 | ug/m3 |
| 100-41-4 | Ethylbenzene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 141-78-6 | Ethyl Acetate | ND | 0.20 | 0.10 | ppbv | | ND | 0.72 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | ND | 0.20 | 0.095 | ppbv | | ND | 0.98 | ug/m3 |

# Method Blank Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1083-MB | 6W25444.D | 1 | 08/11/22 | TCH | n/a | n/a | V6W1083 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V6W1083-SCC

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | 0.20 | 0.031 | ppbv | | ND | 1.5 | ug/m3 |
| 76-14-2 | Freon 114 | ND | 0.20 | 0.050 | ppbv | | ND | 1.4 | ug/m3 |
| 142-82-5 | Heptane | ND | 0.20 | 0.092 | ppbv | | ND | 0.82 | ug/m3 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.20 | 0.062 | ppbv | | ND | 2.1 | ug/m3 |
| 110-54-3 | Hexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| 591-78-6 | 2-Hexanone | ND | 0.20 | 0.15 | ppbv | | ND | 0.82 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | ND | 0.20 | 0.14 | ppbv | | ND | 0.49 | ug/m3 |
| 75-09-2 | Methylene chloride | ND | 0.20 | 0.056 | ppbv | | ND | 0.69 | ug/m3 |
| 78-93-3 | Methyl ethyl ketone | ND | 0.20 | 0.11 | ppbv | | ND | 0.59 | ug/m3 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | 0.20 | 0.073 | ppbv | | ND | 0.82 | ug/m3 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.20 | 0.080 | ppbv | | ND | 0.72 | ug/m3 |
| 80-62-6 | Methylmethacrylate | ND | 0.20 | 0.070 | ppbv | | ND | 0.82 | ug/m3 |
| 115-07-1 | Propylene | ND | 0.50 | 0.14 | ppbv | | ND | 0.86 | ug/m3 |
| 100-42-5 | Styrene | ND | 0.20 | 0.12 | ppbv | | ND | 0.85 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.20 | 0.037 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.20 | 0.038 | ppbv | | ND | 1.1 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.20 | 0.12 | ppbv | | ND | 1.5 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.20 | 0.087 | ppbv | | ND | 0.98 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.20 | 0.080 | ppbv | | ND | 0.98 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | 0.20 | 0.095 | ppbv | | ND | 0.93 | ug/m3 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 0.20 | 0.093 | ppbv | | ND | 0.61 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.040 | 0.014 | ppbv | | ND | 0.27 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | ND | 0.20 | 0.090 | ppbv | | ND | 0.59 | ug/m3 |
| 108-88-3 | Toluene | ND | 0.20 | 0.057 | ppbv | | ND | 0.75 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.20 | 0.036 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.20 | 0.069 | ppbv | | ND | 0.51 | ug/m3 |
| 108-05-4 | Vinyl Acetate | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| | m,p-Xylene | ND | 0.20 | 0.14 | ppbv | | ND | 0.87 | ug/m3 |
| 95-47-6 | o-Xylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |
| 1330-20-7 | Xylenes (total) | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |

# Method Blank Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1083-MB | 6W25444.D | 1 | 08/11/22 | TCH | n/a | n/a | V6W1083 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V6W1083-SCC

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 94% | 65-128% |

# Method Blank Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2734-MB | 2W61615.D | 1 | 09/27/22 | TCH | n/a | n/a | V2W2734 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2734-SCC

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | ND | 0.20 | 0.15 | ppbv | | ND | 0.48 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | ND | 0.20 | 0.084 | ppbv | | ND | 0.44 | ug/m3 |
| 71-43-2 | Benzene | ND | 0.20 | 0.062 | ppbv | | ND | 0.64 | ug/m3 |
| 75-27-4 | Bromodichloromethane | ND | 0.20 | 0.030 | ppbv | | ND | 1.3 | ug/m3 |
| 75-25-2 | Bromoform | ND | 0.20 | 0.071 | ppbv | | ND | 2.1 | ug/m3 |
| 74-83-9 | Bromomethane | ND | 0.20 | 0.069 | ppbv | | ND | 0.78 | ug/m3 |
| 593-60-2 | Bromoethene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 100-44-7 | Benzyl Chloride | ND | 0.20 | 0.13 | ppbv | | ND | 1.0 | ug/m3 |
| 75-15-0 | Carbon disulfide | ND | 0.20 | 0.045 | ppbv | | ND | 0.62 | ug/m3 |
| 108-90-7 | Chlorobenzene | ND | 0.20 | 0.074 | ppbv | | ND | 0.92 | ug/m3 |
| 75-00-3 | Chloroethane | ND | 0.20 | 0.068 | ppbv | | ND | 0.53 | ug/m3 |
| 67-66-3 | Chloroform | ND | 0.20 | 0.037 | ppbv | | ND | 0.98 | ug/m3 |
| 74-87-3 | Chloromethane | ND | 0.20 | 0.090 | ppbv | | ND | 0.41 | ug/m3 |
| 107-05-1 | 3-Chloropropene | ND | 0.20 | 0.083 | ppbv | | ND | 0.63 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.20 | 0.072 | ppbv | | ND | 1.0 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.20 | 0.040 | ppbv | | ND | 1.3 | ug/m3 |
| 110-82-7 | Cyclohexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.69 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.20 | 0.057 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.20 | 0.059 | ppbv | | ND | 0.79 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | 0.20 | 0.097 | ppbv | | ND | 1.5 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.20 | 0.070 | ppbv | | ND | 0.81 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.20 | 0.062 | ppbv | | ND | 0.92 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | ND | 0.20 | 0.12 | ppbv | | ND | 0.72 | ug/m3 |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.20 | 0.032 | ppbv | | ND | 0.99 | ug/m3 |
| 124-48-1 | Dibromochloromethane | ND | 0.20 | 0.052 | ppbv | | ND | 1.7 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.069 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.79 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.20 | 0.062 | ppbv | | ND | 0.91 | ug/m3 |
| 541-73-1 | m-Dichlorobenzene | ND | 0.20 | 0.040 | ppbv | | ND | 1.2 | ug/m3 |
| 95-50-1 | o-Dichlorobenzene | ND | 0.20 | 0.15 | ppbv | | ND | 1.2 | ug/m3 |
| 106-46-7 | p-Dichlorobenzene | ND | 0.20 | 0.19 | ppbv | | ND | 1.2 | ug/m3 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.20 | 0.10 | ppbv | | ND | 0.91 | ug/m3 |
| 64-17-5 | Ethanol | ND | 0.50 | 0.39 | ppbv | | ND | 0.94 | ug/m3 |
| 100-41-4 | Ethylbenzene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 141-78-6 | Ethyl Acetate | ND | 0.20 | 0.10 | ppbv | | ND | 0.72 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | ND | 0.20 | 0.095 | ppbv | | ND | 0.98 | ug/m3 |

# Method Blank Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2734-MB | 2W61615.D | 1 | 09/27/22 | TCH | n/a | n/a | V2W2734 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2734-SCC

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | 0.20 | 0.031 | ppbv | | ND | 1.5 | ug/m3 |
| 76-14-2 | Freon 114 | ND | 0.20 | 0.050 | ppbv | | ND | 1.4 | ug/m3 |
| 142-82-5 | Heptane | ND | 0.20 | 0.092 | ppbv | | ND | 0.82 | ug/m3 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.20 | 0.062 | ppbv | | ND | 2.1 | ug/m3 |
| 110-54-3 | Hexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| 591-78-6 | 2-Hexanone | ND | 0.20 | 0.15 | ppbv | | ND | 0.82 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | ND | 0.20 | 0.14 | ppbv | | ND | 0.49 | ug/m3 |
| 75-09-2 | Methylene chloride | ND | 0.20 | 0.056 | ppbv | | ND | 0.69 | ug/m3 |
| 78-93-3 | Methyl ethyl ketone | ND | 0.20 | 0.11 | ppbv | | ND | 0.59 | ug/m3 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | 0.20 | 0.073 | ppbv | | ND | 0.82 | ug/m3 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.20 | 0.080 | ppbv | | ND | 0.72 | ug/m3 |
| 80-62-6 | Methylmethacrylate | ND | 0.20 | 0.070 | ppbv | | ND | 0.82 | ug/m3 |
| 115-07-1 | Propylene | ND | 0.50 | 0.14 | ppbv | | ND | 0.86 | ug/m3 |
| 100-42-5 | Styrene | ND | 0.20 | 0.12 | ppbv | | ND | 0.85 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.20 | 0.037 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.20 | 0.038 | ppbv | | ND | 1.1 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.20 | 0.12 | ppbv | | ND | 1.5 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.20 | 0.087 | ppbv | | ND | 0.98 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.20 | 0.080 | ppbv | | ND | 0.98 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | 0.20 | 0.095 | ppbv | | ND | 0.93 | ug/m3 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 0.20 | 0.093 | ppbv | | ND | 0.61 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.040 | 0.014 | ppbv | | ND | 0.27 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | ND | 0.20 | 0.090 | ppbv | | ND | 0.59 | ug/m3 |
| 108-88-3 | Toluene | ND | 0.20 | 0.057 | ppbv | | ND | 0.75 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.20 | 0.036 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.20 | 0.069 | ppbv | | ND | 0.51 | ug/m3 |
| 108-05-4 | Vinyl Acetate | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| | m,p-Xylene | ND | 0.20 | 0.14 | ppbv | | ND | 0.87 | ug/m3 |
| 95-47-6 | o-Xylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |
| 1330-20-7 | Xylenes (total) | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |

# Method Blank Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2734-MB | 2W61615.D | 1 | 09/27/22 | TCH | n/a | n/a | V2W2734 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2734-SCC

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 96% | 65-128% |

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1137-BS | 6W26824.D | 1 | 11/03/22 | TCH | n/a | n/a | V6W1137 |
| V6W1137-BSD | 6W26825.D | 1 | 11/03/22 | TCH | n/a | n/a | V6W1137 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD54338-1, JD54338-2

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | 10 | 10.2 | 102 | 10.3 | 103 | 1 | 70-130/30 |
| 106-99-0 | 1,3-Butadiene | 10 | 10.2 | 102 | 10.5 | 105 | 3 | 70-130/30 |
| 71-43-2 | Benzene | 10 | 9.4 | 94 | 9.4 | 94 | 0 | 70-130/30 |
| 75-27-4 | Bromodichloromethane | 10 | 9.0 | 90 | 9.3 | 93 | 3 | 70-130/30 |
| 75-25-2 | Bromoform | 10 | 9.2 | 92 | 9.5 | 95 | 3 | 70-130/30 |
| 74-83-9 | Bromomethane | 10 | 11.1 | 111 | 11.1 | 111 | 0 | 70-130/30 |
| 593-60-2 | Bromoethene | 10 | 11.0 | 110 | 11.0 | 110 | 0 | 70-130/30 |
| 100-44-7 | Benzyl Chloride | 10 | 11.3 | 113 | 11.8 | 118 | 4 | 70-130/30 |
| 75-15-0 | Carbon disulfide | 10 | 9.9 | 99 | 10 | 100 | 1 | 70-130/30 |
| 108-90-7 | Chlorobenzene | 10 | 9.4 | 94 | 9.9 | 99 | 5 | 70-130/30 |
| 75-00-3 | Chloroethane | 10 | 11.2 | 112 | 11.3 | 113 | 1 | 70-130/30 |
| 67-66-3 | Chloroform | 10 | 9.4 | 94 | 9.5 | 95 | 1 | 70-130/30 |
| 74-87-3 | Chloromethane | 10 | 9.7 | 97 | 9.7 | 97 | 0 | 70-130/30 |
| 107-05-1 | 3-Chloropropene | 10 | 10.2 | 102 | 10.3 | 103 | 1 | 70-130/30 |
| 95-49-8 | 2-Chlorotoluene | 10 | 10.2 | 102 | 10.6 | 106 | 4 | 70-130/30 |
| 56-23-5 | Carbon tetrachloride | 10 | 8.9 | 89 | 9.1 | 91 | 2 | 70-130/30 |
| 110-82-7 | Cyclohexane | 10 | 9.8 | 98 | 10 | 100 | 2 | 70-130/30 |
| 75-34-3 | 1,1-Dichloroethane | 10 | 9.7 | 97 | 9.8 | 98 | 1 | 70-130/30 |
| 75-35-4 | 1,1-Dichloroethylene | 10 | 10.0 | 100 | 10.2 | 102 | 2 | 70-130/30 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | 10 | 8.9 | 89 | 9.2 | 92 | 3 | 70-130/30 |
| 107-06-2 | 1,2-Dichloroethane | 10 | 9.0 | 90 | 9.1 | 91 | 1 | 70-130/30 |
| 78-87-5 | 1,2-Dichloropropane | 10 | 9.7 | 97 | 10 | 100 | 3 | 70-130/30 |
| 123-91-1 | 1,4-Dioxane | 10 | 11.9 | 119 | 12.3 | 123 | 3 | 70-130/30 |
| 75-71-8 | Dichlorodifluoromethane | 10 | 11.9 | 119 | 12.0 | 120 | 1 | 70-130/30 |
| 124-48-1 | Dibromochloromethane | 10 | 8.6 | 86 | 8.8 | 88 | 2 | 70-130/30 |
| 156-60-5 | trans-1,2-Dichloroethylene | 10 | 9.8 | 98 | 10 | 100 | 2 | 70-130/30 |
| 156-59-2 | cis-1,2-Dichloroethylene | 10 | 9.5 | 95 | 9.7 | 97 | 2 | 70-130/30 |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | 8.6 | 86 | 8.8 | 88 | 2 | 70-130/30 |
| 541-73-1 | m-Dichlorobenzene | 10 | 10.5 | 105 | 10.8 | 108 | 3 | 70-130/30 |
| 95-50-1 | o-Dichlorobenzene | 10 | 10.5 | 105 | 10.9 | 109 | 4 | 70-130/30 |
| 106-46-7 | p-Dichlorobenzene | 10 | 10.6 | 106 | 10.9 | 109 | 3 | 70-130/30 |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | 8.6 | 86 | 9.0 | 90 | 5 | 70-130/30 |
| 64-17-5 | Ethanol | 10 | 9.5 | 95 | 9.8 | 98 | 3 | 70-130/30 |
| 100-41-4 | Ethylbenzene | 10 | 8.6 | 86 | 8.9 | 89 | 3 | 70-130/30 |
| 141-78-6 | Ethyl Acetate | 10 | 10.1 | 101 | 10.4 | 104 | 3 | 70-130/30 |
| 622-96-8 | 4-Ethyltoluene | 10 | 10.8 | 108 | 11.3 | 113 | 5 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1137-BS | 6W26824.D | 1 | 11/03/22 | TCH | n/a | n/a | V6W1137 |
| V6W1137-BSD | 6W26825.D | 1 | 11/03/22 | TCH | n/a | n/a | V6W1137 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD54338-1, JD54338-2

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | 10 | 9.6 | 96 | 9.7 | 97 | 1 | 70-130/30 |
| 76-14-2 | Freon 114 | 10 | 10.1 | 101 | 10.3 | 103 | 2 | 70-130/30 |
| 142-82-5 | Heptane | 10 | 8.1 | 81 | 8.3 | 83 | 2 | 70-130/30 |
| 87-68-3 | Hexachlorobutadiene | 10 | 10.5 | 105 | 11.0 | 110 | 5 | 70-130/30 |
| 110-54-3 | Hexane | 10 | 9.4 | 94 | 9.6 | 96 | 2 | 70-130/30 |
| 591-78-6 | 2-Hexanone | 10 | 12.1 | 121 | 12.6 | 126 | 4 | 70-130/30 |
| 67-63-0 | Isopropyl Alcohol | 10 | 9.2 | 92 | 9.5 | 95 | 3 | 70-130/30 |
| 75-09-2 | Methylene chloride | 10 | 9.3 | 93 | 9.5 | 95 | 2 | 70-130/30 |
| 78-93-3 | Methyl ethyl ketone | 10 | 10.3 | 103 | 10.4 | 104 | 1 | 70-130/30 |
| 108-10-1 | Methyl Isobutyl Ketone | 10 | 10.3 | 103 | 10.8 | 108 | 5 | 70-130/30 |
| 1634-04-4 | Methyl Tert Butyl Ether | 10 | 8.2 | 82 | 8.4 | 84 | 2 | 70-130/30 |
| 80-62-6 | Methylmethacrylate | 10 | 9.3 | 93 | 9.6 | 96 | 3 | 70-130/30 |
| 115-07-1 | Propylene | 10 | 7.7 | 77 | 7.9 | 79 | 3 | 70-130/30 |
| 100-42-5 | Styrene | 10 | 10.4 | 104 | 10.8 | 108 | 4 | 70-130/30 |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | 8.7 | 87 | 8.9 | 89 | 2 | 70-130/30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | 10 | 100 | 10.3 | 103 | 3 | 70-130/30 |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | 8.7 | 87 | 9.0 | 90 | 3 | 70-130/30 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | 11.6 | 116 | 12.0 | 120 | 3 | 70-130/30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 10 | 10.8 | 108 | 11.1 | 111 | 3 | 70-130/30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10 | 10.6 | 106 | 11.0 | 110 | 4 | 70-130/30 |
| 540-84-1 | 2,2,4-Trimethylpentane | 10 | 9.9 | 99 | 10.2 | 102 | 3 | 70-130/30 |
| 75-65-0 | Tertiary Butyl Alcohol | 10 | 8.8 | 88 | 9.1 | 91 | 3 | 70-130/30 |
| 127-18-4 | Tetrachloroethylene | 10 | 9.1 | 91 | 9.3 | 93 | 2 | 70-130/30 |
| 109-99-9 | Tetrahydrofuran | 10 | 10.5 | 105 | 10.6 | 106 | 1 | 70-130/30 |
| 108-88-3 | Toluene | 10 | 8.2 | 82 | 8.4 | 84 | 2 | 70-130/30 |
| 79-01-6 | Trichloroethylene | 10 | 9.4 | 94 | 9.6 | 96 | 2 | 70-130/30 |
| 75-69-4 | Trichlorofluoromethane | 10 | 9.9 | 99 | 10.0 | 100 | 1 | 70-130/30 |
| 75-01-4 | Vinyl chloride | 10 | 10.3 | 103 | 10.5 | 105 | 2 | 70-130/30 |
| 108-05-4 | Vinyl Acetate | 10 | 10.5 | 105 | 10.8 | 108 | 3 | 70-130/30 |
| | m,p-Xylene | 20 | 17.8 | 89 | 18.3 | 92 | 3 | 70-130/30 |
| 95-47-6 | o-Xylene | 10 | 9.0 | 90 | 9.4 | 94 | 4 | 70-130/30 |
| 1330-20-7 | Xylenes (total) | 30 | 26.7 | 89 | 27.7 | 92 | 4 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1137-BS | 6W26824.D | 1 | 11/03/22 | TCH | n/a | n/a | V6W1137 |
| V6W1137-BSD | 6W26825.D | 1 | 11/03/22 | TCH | n/a | n/a | V6W1137 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD54338-1, JD54338-2

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 101% | 102% | 65-128% |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1138-BS | 6W26864.D | 1 | 11/04/22 | TCH | n/a | n/a | V6W1138 |
| V6W1138-BSD | 6W26865.D | 1 | 11/04/22 | TCH | n/a | n/a | V6W1138 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD54338-1

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 141-78-6 | Ethyl Acetate | 10 | 10.2 | 102 | 10.9 | 109 | 7 | 70-130/30 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 102% | 100% | 65-128% |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1083-BS | 6W25440.D | 1 | 08/11/22 | TCH | n/a | n/a | V6W1083 |
| V6W1083-BSD | 6W25441.D | 1 | 08/11/22 | TCH | n/a | n/a | V6W1083 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V6W1083-SCC

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | 10 | 8.7 | 87 | 8.8 | 88 | 1 | 70-130/30 |
| 106-99-0 | 1,3-Butadiene | 10 | 9.2 | 92 | 9.3 | 93 | 1 | 70-130/30 |
| 71-43-2 | Benzene | 10 | 8.5 | 85 | 8.6 | 86 | 1 | 70-130/30 |
| 75-27-4 | Bromodichloromethane | 10 | 9.4 | 94 | 9.6 | 96 | 2 | 70-130/30 |
| 75-25-2 | Bromoform | 10 | 11.5 | 115 | 11.5 | 115 | 0 | 70-130/30 |
| 74-83-9 | Bromomethane | 10 | 9.5 | 95 | 9.6 | 96 | 1 | 70-130/30 |
| 593-60-2 | Bromoethene | 10 | 9.9 | 99 | 9.9 | 99 | 0 | 70-130/30 |
| 100-44-7 | Benzyl Chloride | 10 | 8.1 | 81 | 8.5 | 85 | 5 | 70-130/30 |
| 75-15-0 | Carbon disulfide | 10 | 9.6 | 96 | 9.6 | 96 | 0 | 70-130/30 |
| 108-90-7 | Chlorobenzene | 10 | 9.6 | 96 | 9.6 | 96 | 0 | 70-130/30 |
| 75-00-3 | Chloroethane | 10 | 8.2 | 82 | 8.2 | 82 | 0 | 70-130/30 |
| 67-66-3 | Chloroform | 10 | 8.9 | 89 | 9.0 | 90 | 1 | 70-130/30 |
| 74-87-3 | Chloromethane | 10 | 9.3 | 93 | 9.3 | 93 | 0 | 70-130/30 |
| 107-05-1 | 3-Chloropropene | 10 | 9.0 | 90 | 9.1 | 91 | 1 | 70-130/30 |
| 95-49-8 | 2-Chlorotoluene | 10 | 10.1 | 101 | 10.2 | 102 | 1 | 70-130/30 |
| 56-23-5 | Carbon tetrachloride | 10 | 9.2 | 92 | 9.2 | 92 | 0 | 70-130/30 |
| 110-82-7 | Cyclohexane | 10 | 9.0 | 90 | 9.2 | 92 | 2 | 70-130/30 |
| 75-34-3 | 1,1-Dichloroethane | 10 | 9.2 | 92 | 9.2 | 92 | 0 | 70-130/30 |
| 75-35-4 | 1,1-Dichloroethylene | 10 | 9.5 | 95 | 9.4 | 94 | 1 | 70-130/30 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | 10 | 9.3 | 93 | 9.4 | 94 | 1 | 70-130/30 |
| 107-06-2 | 1,2-Dichloroethane | 10 | 7.8 | 78 | 7.9 | 79 | 1 | 70-130/30 |
| 78-87-5 | 1,2-Dichloropropane | 10 | 9.1 | 91 | 9.1 | 91 | 0 | 70-130/30 |
| 123-91-1 | 1,4-Dioxane | 10 | 10.8 | 108 | 11.0 | 110 | 2 | 70-130/30 |
| 75-71-8 | Dichlorodifluoromethane | 10 | 11.6 | 116 | 9.8 | 98 | 17 | 70-130/30 |
| 124-48-1 | Dibromochloromethane | 10 | 10.2 | 102 | 10.2 | 102 | 0 | 70-130/30 |
| 156-60-5 | trans-1,2-Dichloroethylene | 10 | 9.5 | 95 | 9.5 | 95 | 0 | 70-130/30 |
| 156-59-2 | cis-1,2-Dichloroethylene | 10 | 8.8 | 88 | 10 | 100 | 13 | 70-130/30 |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | 8.8 | 88 | 9.1 | 91 | 3 | 70-130/30 |
| 541-73-1 | m-Dichlorobenzene | 10 | 10.2 | 102 | 10.3 | 103 | 1 | 70-130/30 |
| 95-50-1 | o-Dichlorobenzene | 10 | 10.4 | 104 | 10.2 | 102 | 2 | 70-130/30 |
| 106-46-7 | p-Dichlorobenzene | 10 | 10.4 | 104 | 10.3 | 103 | 1 | 70-130/30 |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | 8.4 | 84 | 8.6 | 86 | 2 | 70-130/30 |
| 64-17-5 | Ethanol | 10 | 8.5 | 85 | 8.5 | 85 | 0 | 70-130/30 |
| 100-41-4 | Ethylbenzene | 10 | 9.2 | 92 | 9.1 | 91 | 1 | 70-130/30 |
| 141-78-6 | Ethyl Acetate | 10 | 8.6 | 86 | 8.7 | 87 | 1 | 70-130/30 |
| 622-96-8 | 4-Ethyltoluene | 10 | 9.9 | 99 | 9.7 | 97 | 2 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1083-BS | 6W25440.D | 1 | 08/11/22 | TCH | n/a | n/a | V6W1083 |
| V6W1083-BSD | 6W25441.D | 1 | 08/11/22 | TCH | n/a | n/a | V6W1083 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V6W1083-SCC

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | 10 | 10.6 | 106 | 10.6 | 106 | 0 | 70-130/30 |
| 76-14-2 | Freon 114 | 10 | 9.7 | 97 | 9.8 | 98 | 1 | 70-130/30 |
| 142-82-5 | Heptane | 10 | 7.3 | 73 | 7.4 | 74 | 1 | 70-130/30 |
| 87-68-3 | Hexachlorobutadiene | 10 | 10.2 | 102 | 10.2 | 102 | 0 | 70-130/30 |
| 110-54-3 | Hexane | 10 | 7.8 | 78 | 7.8 | 78 | 0 | 70-130/30 |
| 591-78-6 | 2-Hexanone | 10 | 10.6 | 106 | 10.8 | 108 | 2 | 70-130/30 |
| 67-63-0 | Isopropyl Alcohol | 10 | 8.4 | 84 | 8.4 | 84 | 0 | 70-130/30 |
| 75-09-2 | Methylene chloride | 10 | 9.5 | 95 | 9.5 | 95 | 0 | 70-130/30 |
| 78-93-3 | Methyl ethyl ketone | 10 | 10.5 | 105 | 10.4 | 104 | 1 | 70-130/30 |
| 108-10-1 | Methyl Isobutyl Ketone | 10 | 9.3 | 93 | 9.5 | 95 | 2 | 70-130/30 |
| 1634-04-4 | Methyl Tert Butyl Ether | 10 | 8.8 | 88 | 8.9 | 89 | 1 | 70-130/30 |
| 80-62-6 | Methylmethacrylate | 10 | 9.4 | 94 | 9.5 | 95 | 1 | 70-130/30 |
| 115-07-1 | Propylene | 10 | 7.2 | 72 | 7.2 | 72 | 0 | 70-130/30 |
| 100-42-5 | Styrene | 10 | 10.0 | 100 | 9.9 | 99 | 1 | 70-130/30 |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | 8.7 | 87 | 8.8 | 88 | 1 | 70-130/30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | 9.5 | 95 | 9.6 | 96 | 1 | 70-130/30 |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | 9.1 | 91 | 9.3 | 93 | 2 | 70-130/30 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | 11.3 | 113 | 11.4 | 114 | 1 | 70-130/30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 10 | 9.8 | 98 | 9.8 | 98 | 0 | 70-130/30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10 | 9.7 | 97 | 9.6 | 96 | 1 | 70-130/30 |
| 540-84-1 | 2,2,4-Trimethylpentane | 10 | 8.2 | 82 | 8.3 | 83 | 1 | 70-130/30 |
| 75-65-0 | Tertiary Butyl Alcohol | 10 | 8.0 | 80 | 8.0 | 80 | 0 | 70-130/30 |
| 127-18-4 | Tetrachloroethylene | 10 | 10.3 | 103 | 10.4 | 104 | 1 | 70-130/30 |
| 109-99-9 | Tetrahydrofuran | 10 | 9.3 | 93 | 9.3 | 93 | 0 | 70-130/30 |
| 108-88-3 | Toluene | 10 | 8.8 | 88 | 8.9 | 89 | 1 | 70-130/30 |
| 79-01-6 | Trichloroethylene | 10 | 9.2 | 92 | 9.4 | 94 | 2 | 70-130/30 |
| 75-69-4 | Trichlorofluoromethane | 10 | 9.4 | 94 | 9.4 | 94 | 0 | 70-130/30 |
| 75-01-4 | Vinyl chloride | 10 | 8.6 | 86 | 8.8 | 88 | 2 | 70-130/30 |
| 108-05-4 | Vinyl Acetate | 10 | 10.4 | 104 | 10.6 | 106 | 2 | 70-130/30 |
| | m,p-Xylene | 20 | 18.6 | 93 | 18.6 | 93 | 0 | 70-130/30 |
| 95-47-6 | o-Xylene | 10 | 9.2 | 92 | 9.1 | 91 | 1 | 70-130/30 |
| 1330-20-7 | Xylenes (total) | 30 | 27.8 | 93 | 27.8 | 93 | 0 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1083-BS | 6W25440.D | 1 | 08/11/22 | TCH | n/a | n/a | V6W1083 |
| V6W1083-BSD | 6W25441.D | 1 | 08/11/22 | TCH | n/a | n/a | V6W1083 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V6W1083-SCC

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 96% | 96% | 65-128% |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2734-BS | 2W61612.D | 1 | 09/27/22 | TCH | n/a | n/a | V2W2734 |
| V2W2734-BSD | 2W61613.D | 1 | 09/27/22 | TCH | n/a | n/a | V2W2734 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2734-SCC

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | 10 | 8.4 | 84 | 7.9 | 79 | 6 | 70-130/30 |
| 106-99-0 | 1,3-Butadiene | 10 | 9.6 | 96 | 9.0 | 90 | 6 | 70-130/30 |
| 71-43-2 | Benzene | 10 | 10.2 | 102 | 9.7 | 97 | 5 | 70-130/30 |
| 75-27-4 | Bromodichloromethane | 10 | 10.2 | 102 | 9.8 | 98 | 4 | 70-130/30 |
| 75-25-2 | Bromoform | 10 | 10.9 | 109 | 10.5 | 105 | 4 | 70-130/30 |
| 74-83-9 | Bromomethane | 10 | 9.9 | 99 | 9.4 | 94 | 5 | 70-130/30 |
| 593-60-2 | Bromoethene | 10 | 10.7 | 107 | 9.9 | 99 | 8 | 70-130/30 |
| 100-44-7 | Benzyl Chloride | 10 | 8.5 | 85 | 8.2 | 82 | 4 | 70-130/30 |
| 75-15-0 | Carbon disulfide | 10 | 12.2 | 122 | 11.2 | 112 | 9 | 70-130/30 |
| 108-90-7 | Chlorobenzene | 10 | 9.5 | 95 | 9.2 | 92 | 3 | 70-130/30 |
| 75-00-3 | Chloroethane | 10 | 11.5 | 115 | 10.7 | 107 | 7 | 70-130/30 |
| 67-66-3 | Chloroform | 10 | 10.2 | 102 | 9.7 | 97 | 5 | 70-130/30 |
| 74-87-3 | Chloromethane | 10 | 9.0 | 90 | 8.3 | 83 | 8 | 70-130/30 |
| 107-05-1 | 3-Chloropropene | 10 | 11.1 | 111 | 10.4 | 104 | 7 | 70-130/30 |
| 95-49-8 | 2-Chlorotoluene | 10 | 9.5 | 95 | 9.2 | 92 | 3 | 70-130/30 |
| 56-23-5 | Carbon tetrachloride | 10 | 9.9 | 99 | 9.4 | 94 | 5 | 70-130/30 |
| 110-82-7 | Cyclohexane | 10 | 9.6 | 96 | 9.4 | 94 | 2 | 70-130/30 |
| 75-34-3 | 1,1-Dichloroethane | 10 | 11.1 | 111 | 10.5 | 105 | 6 | 70-130/30 |
| 75-35-4 | 1,1-Dichloroethylene | 10 | 11.1 | 111 | 10.5 | 105 | 6 | 70-130/30 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | 10 | 9.7 | 97 | 9.4 | 94 | 3 | 70-130/30 |
| 107-06-2 | 1,2-Dichloroethane | 10 | 10.7 | 107 | 10.2 | 102 | 5 | 70-130/30 |
| 78-87-5 | 1,2-Dichloropropane | 10 | 10.4 | 104 | 10.1 | 101 | 3 | 70-130/30 |
| 123-91-1 | 1,4-Dioxane | 10 | 11.0 | 110 | 10.8 | 108 | 2 | 70-130/30 |
| 75-71-8 | Dichlorodifluoromethane | 10 | 9.9 | 99 | 9.4 | 94 | 5 | 70-130/30 |
| 124-48-1 | Dibromochloromethane | 10 | 9.9 | 99 | 9.7 | 97 | 2 | 70-130/30 |
| 156-60-5 | trans-1,2-Dichloroethylene | 10 | 10.2 | 102 | 9.7 | 97 | 5 | 70-130/30 |
| 156-59-2 | cis-1,2-Dichloroethylene | 10 | 9.8 | 98 | 9.4 | 94 | 4 | 70-130/30 |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | 10 | 100 | 9.9 | 99 | 1 | 70-130/30 |
| 541-73-1 | m-Dichlorobenzene | 10 | 10 | 100 | 9.6 | 96 | 4 | 70-130/30 |
| 95-50-1 | o-Dichlorobenzene | 10 | 9.9 | 99 | 9.6 | 96 | 3 | 70-130/30 |
| 106-46-7 | p-Dichlorobenzene | 10 | 10 | 100 | 9.6 | 96 | 4 | 70-130/30 |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | 9.6 | 96 | 9.4 | 94 | 2 | 70-130/30 |
| 64-17-5 | Ethanol | 10 | 7.5 | 75 | 7.0 | 70 | 7 | 70-130/30 |
| 100-41-4 | Ethylbenzene | 10 | 10.3 | 103 | 10 | 100 | 3 | 70-130/30 |
| 141-78-6 | Ethyl Acetate | 10 | 11.0 | 110 | 10.4 | 104 | 6 | 70-130/30 |
| 622-96-8 | 4-Ethyltoluene | 10 | 10.5 | 105 | 10.2 | 102 | 3 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2734-BS | 2W61612.D | 1 | 09/27/22 | TCH | n/a | n/a | V2W2734 |
| V2W2734-BSD | 2W61613.D | 1 | 09/27/22 | TCH | n/a | n/a | V2W2734 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2734-SCC

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | 10 | 10.4 | 104 | 9.8 | 98 | 6 | 70-130/30 |
| 76-14-2 | Freon 114 | 10 | 10.4 | 104 | 9.7 | 97 | 7 | 70-130/30 |
| 142-82-5 | Heptane | 10 | 8.4 | 84 | 8.2 | 82 | 2 | 70-130/30 |
| 87-68-3 | Hexachlorobutadiene | 10 | 9.3 | 93 | 8.9 | 89 | 4 | 70-130/30 |
| 110-54-3 | Hexane | 10 | 10.1 | 101 | 9.7 | 97 | 4 | 70-130/30 |
| 591-78-6 | 2-Hexanone | 10 | 10.9 | 109 | 10.6 | 106 | 3 | 70-130/30 |
| 67-63-0 | Isopropyl Alcohol | 10 | 9.5 | 95 | 8.9 | 89 | 7 | 70-130/30 |
| 75-09-2 | Methylene chloride | 10 | 9.8 | 98 | 9.1 | 91 | 7 | 70-130/30 |
| 78-93-3 | Methyl ethyl ketone | 10 | 11.2 | 112 | 10.8 | 108 | 4 | 70-130/30 |
| 108-10-1 | Methyl Isobutyl Ketone | 10 | 11.7 | 117 | 11.2 | 112 | 4 | 70-130/30 |
| 1634-04-4 | Methyl Tert Butyl Ether | 10 | 9.4 | 94 | 9.0 | 90 | 4 | 70-130/30 |
| 80-62-6 | Methylmethacrylate | 10 | 10.6 | 106 | 10.5 | 105 | 1 | 70-130/30 |
| 115-07-1 | Propylene | 10 | 8.1 | 81 | 7.7 | 77 | 5 | 70-130/30 |
| 100-42-5 | Styrene | 10 | 11.1 | 111 | 10.6 | 106 | 5 | 70-130/30 |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | 9.6 | 96 | 9.1 | 91 | 5 | 70-130/30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | 10.5 | 105 | 10.2 | 102 | 3 | 70-130/30 |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | 9.7 | 97 | 9.5 | 95 | 2 | 70-130/30 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | 9.9 | 99 | 9.3 | 93 | 6 | 70-130/30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 10 | 10.4 | 104 | 10.3 | 103 | 1 | 70-130/30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10 | 10.4 | 104 | 10.2 | 102 | 2 | 70-130/30 |
| 540-84-1 | 2,2,4-Trimethylpentane | 10 | 9.6 | 96 | 9.4 | 94 | 2 | 70-130/30 |
| 75-65-0 | Tertiary Butyl Alcohol | 10 | 10.1 | 101 | 9.6 | 96 | 5 | 70-130/30 |
| 127-18-4 | Tetrachloroethylene | 10 | 8.9 | 89 | 8.8 | 88 | 1 | 70-130/30 |
| 109-99-9 | Tetrahydrofuran | 10 | 11.1 | 111 | 10.5 | 105 | 6 | 70-130/30 |
| 108-88-3 | Toluene | 10 | 9.7 | 97 | 9.4 | 94 | 3 | 70-130/30 |
| 79-01-6 | Trichloroethylene | 10 | 10.0 | 100 | 9.8 | 98 | 2 | 70-130/30 |
| 75-69-4 | Trichlorofluoromethane | 10 | 10.9 | 109 | 10.2 | 102 | 7 | 70-130/30 |
| 75-01-4 | Vinyl chloride | 10 | 11.0 | 110 | 10.5 | 105 | 5 | 70-130/30 |
| 108-05-4 | Vinyl Acetate | 10 | 11.0 | 110 | 10.4 | 104 | 6 | 70-130/30 |
| | m,p-Xylene | 20 | 20.8 | 104 | 20.1 | 101 | 3 | 70-130/30 |
| 95-47-6 | o-Xylene | 10 | 10.4 | 104 | 10 | 100 | 4 | 70-130/30 |
| 1330-20-7 | Xylenes (total) | 30 | 31.2 | 104 | 30.1 | 100 | 4 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2734-BS | 2W61612.D | 1 | 09/27/22 | TCH | n/a | n/a | V2W2734 |
| V2W2734-BSD | 2W61613.D | 1 | 09/27/22 | TCH | n/a | n/a | V2W2734 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2734-SCC

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 101% | 100% | 65-128% |

* = Outside of Control Limits.

# Duplicate Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD53652-1DUP | 6W26834.D | 1 | 11/03/22 | TCH | n/a | n/a | V6W1137 |
| JD53652-1 | 6W26833.D | 1 | 11/03/22 | TCH | n/a | n/a | V6W1137 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD54338-1, JD54338-2

| CAS No. | Compound | JD53652-1 ppbv | Q | DUP ppbv | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | 16.4 | | 16.3 | | 1 | 25 |
| 106-99-0 | 1,3-Butadiene | ND | | ND | | nc | 25 |
| 71-43-2 | Benzene | 6.8 | | 7.0 | | 3 | 25 |
| 75-27-4 | Bromodichloromethane | ND | | ND | | nc | 25 |
| 75-25-2 | Bromoform | ND | | ND | | nc | 25 |
| 74-83-9 | Bromomethane | ND | | ND | | nc | 25 |
| 593-60-2 | Bromoethene | ND | | ND | | nc | 25 |
| 100-44-7 | Benzyl Chloride | ND | | ND | | nc | 25 |
| 75-15-0 | Carbon disulfide | ND | | ND | | nc | 25 |
| 108-90-7 | Chlorobenzene | ND | | ND | | nc | 25 |
| 75-00-3 | Chloroethane | ND | | ND | | nc | 25 |
| 67-66-3 | Chloroform | ND | | ND | | nc | 25 |
| 74-87-3 | Chloromethane | ND | | ND | | nc | 25 |
| 107-05-1 | 3-Chloropropene | ND | | ND | | nc | 25 |
| 95-49-8 | 2-Chlorotoluene | ND | | ND | | nc | 25 |
| 56-23-5 | Carbon tetrachloride | ND | | ND | | nc | 25 |
| 110-82-7 | Cyclohexane | 3.2 | | 3.2 | | 0 | 25 |
| 75-34-3 | 1,1-Dichloroethane | ND | | ND | | nc | 25 |
| 75-35-4 | 1,1-Dichloroethylene | ND | | ND | | nc | 25 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | | ND | | nc | 25 |
| 107-06-2 | 1,2-Dichloroethane | ND | | ND | | nc | 25 |
| 78-87-5 | 1,2-Dichloropropane | ND | | ND | | nc | 25 |
| 123-91-1 | 1,4-Dioxane | ND | | ND | | nc | 25 |
| 75-71-8 | Dichlorodifluoromethane | 0.49 | J | 0.51 | J | 4 | 25 |
| 124-48-1 | Dibromochloromethane | ND | | ND | | nc | 25 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | | ND | | nc | 25 |
| 156-59-2 | cis-1,2-Dichloroethylene | 12.6 | | 12.7 | | 1 | 25 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | ND | | nc | 25 |
| 541-73-1 | m-Dichlorobenzene | ND | | ND | | nc | 25 |
| 95-50-1 | o-Dichlorobenzene | ND | | ND | | nc | 25 |
| 106-46-7 | p-Dichlorobenzene | ND | | ND | | nc | 25 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | ND | | nc | 25 |
| 64-17-5 | Ethanol | 3.6 | | 3.8 | | 5 | 25 |
| 100-41-4 | Ethylbenzene | 1.0 | | 1.0 | | 0 | 25 |
| 141-78-6 | Ethyl Acetate | ND | | ND | | nc | 25 |
| 622-96-8 | 4-Ethyltoluene | ND | | ND | | nc | 25 |

* = Outside of Control Limits.

# Duplicate Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD53652-1DUP | 6W26834.D | 1 | 11/03/22 | TCH | n/a | n/a | V6W1137 |
| JD53652-1 | 6W26833.D | 1 | 11/03/22 | TCH | n/a | n/a | V6W1137 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD54338-1, JD54338-2

| CAS No. | Compound | JD53652-1 ppbv | Q | DUP ppbv | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | | ND | | nc | 25 |
| 76-14-2 | Freon 114 | ND | | ND | | nc | 25 |
| 142-82-5 | Heptane | 3.7 | | 4.2 | | 13 | 25 |
| 87-68-3 | Hexachlorobutadiene | ND | | ND | | nc | 25 |
| 110-54-3 | Hexane | 15.8 | | 16.2 | | 2 | 25 |
| 591-78-6 | 2-Hexanone | ND | | ND | | nc | 25 |
| 67-63-0 | Isopropyl Alcohol | 0.99 | | 1.1 | | 11 | 25 |
| 75-09-2 | Methylene chloride | 0.93 | | 0.97 | | 4 | 25 |
| 78-93-3 | Methyl ethyl ketone | 0.50 | J | 0.50 | J | 0 | 25 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | | ND | | nc | 25 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | ND | | nc | 25 |
| 80-62-6 | Methylmethacrylate | ND | | ND | | nc | 25 |
| 115-07-1 | Propylene | 42.9 | | 43.9 | | 2 | 25 |
| 100-42-5 | Styrene | ND | | ND | | nc | 25 |
| 71-55-6 | 1,1,1-Trichloroethane | 2.3 | | 2.4 | | 4 | 25 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | ND | | nc | 25 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | ND | | nc | 25 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | ND | | nc | 25 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.39 | J | 0.38 | J | 3 | 25 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | ND | | nc | 25 |
| 540-84-1 | 2,2,4-Trimethylpentane | 36.6 | | 40.0 | | 9 | 25 |
| 75-65-0 | Tertiary Butyl Alcohol | 2.8 | | 2.9 | | 4 | 25 |
| 127-18-4 | Tetrachloroethylene | 2.6 | | 2.6 | | 0 | 25 |
| 109-99-9 | Tetrahydrofuran | ND | | ND | | nc | 25 |
| 108-88-3 | Toluene | 12.0 | | 12.2 | | 2 | 25 |
| 79-01-6 | Trichloroethylene | 2.8 | | 2.7 | | 4 | 25 |
| 75-69-4 | Trichlorofluoromethane | 0.59 | J | 0.63 | J | 7 | 25 |
| 75-01-4 | Vinyl chloride | 2.1 | | 2.2 | | 5 | 25 |
| 108-05-4 | Vinyl Acetate | ND | | ND | | nc | 25 |
| | m,p-Xylene | 4.8 | | 4.9 | | 2 | 25 |
| 95-47-6 | o-Xylene | 1.5 | | 1.5 | | 0 | 25 |
| 1330-20-7 | Xylenes (total) | 6.2 | | 6.3 | | 2 | 25 |

* = Outside of Control Limits.

# Duplicate Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD53652-1DUP | 6W26834.D | 1 | 11/03/22 | TCH | n/a | n/a | V6W1137 |
| JD53652-1 | 6W26833.D | 1 | 11/03/22 | TCH | n/a | n/a | V6W1137 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD54338-1, JD54338-2

| CAS No. | Surrogate Recoveries | DUP | JD53652-1 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 99% | 98% | 65-128% |

* = Outside of Control Limits.

# Duplicate Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD54423-15DUP | 6W26872.D | 1 | 11/04/22 | TCH | n/a | n/a | V6W1138 |
| JD54423-15 | 6W26871.D | 1 | 11/04/22 | TCH | n/a | n/a | V6W1138 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD54338-1

| CAS No. | Compound | JD54423-15 ppbv | Q | DUP ppbv | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 141-78-6 | Ethyl Acetate | 1.5 | | 1.6 | | 6 | 25 |

| CAS No. | Surrogate Recoveries | DUP | JD54423-15 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 99% | 98% | 65-128% |

* = Outside of Control Limits.

# Summa Cleaning Certification



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1083-SCC | 6W25452.D | 1 | 08/11/22 | TCH | n/a | n/a | V6W1083 |

**The QC reported here (Summa A406) applies to the following samples:** **Method:** TO-15

Batch CP11846 cleaned 08/05/22: JD54338-1(A502)

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | ND | 0.80 | 0.58 | ppbv | | ND | 1.9 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | ND | 0.80 | 0.34 | ppbv | | ND | 1.8 | ug/m3 |
| 71-43-2 | Benzene | ND | 0.80 | 0.25 | ppbv | | ND | 2.6 | ug/m3 |
| 75-27-4 | Bromodichloromethane | ND | 0.80 | 0.12 | ppbv | | ND | 5.4 | ug/m3 |
| 75-25-2 | Bromoform | ND | 0.80 | 0.28 | ppbv | | ND | 8.3 | ug/m3 |
| 74-83-9 | Bromomethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.1 | ug/m3 |
| 593-60-2 | Bromoethene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | ug/m3 |
| 100-44-7 | Benzyl Chloride | ND | 0.80 | 0.50 | ppbv | | ND | 4.1 | ug/m3 |
| 75-15-0 | Carbon disulfide | ND | 0.80 | 0.18 | ppbv | | ND | 2.5 | ug/m3 |
| 108-90-7 | Chlorobenzene | ND | 0.80 | 0.30 | ppbv | | ND | 3.7 | ug/m3 |
| 75-00-3 | Chloroethane | ND | 0.80 | 0.27 | ppbv | | ND | 2.1 | ug/m3 |
| 67-66-3 | Chloroform | ND | 0.80 | 0.15 | ppbv | | ND | 3.9 | ug/m3 |
| 74-87-3 | Chloromethane | ND | 0.80 | 0.36 | ppbv | | ND | 1.7 | ug/m3 |
| 107-05-1 | 3-Chloropropene | ND | 0.80 | 0.33 | ppbv | | ND | 2.5 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.80 | 0.29 | ppbv | | ND | 4.1 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.80 | 0.16 | ppbv | | ND | 5.0 | ug/m3 |
| 110-82-7 | Cyclohexane | ND | 0.80 | 0.44 | ppbv | | ND | 2.8 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.80 | 0.23 | ppbv | | ND | 3.2 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.80 | 0.24 | ppbv | | ND | 3.2 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | 0.80 | 0.39 | ppbv | | ND | 6.1 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.80 | 0.25 | ppbv | | ND | 3.7 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | ND | 0.80 | 0.47 | ppbv | | ND | 2.9 | ug/m3 |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.80 | 0.13 | ppbv | | ND | 4.0 | ug/m3 |
| 124-48-1 | Dibromochloromethane | ND | 0.80 | 0.21 | ppbv | | ND | 6.8 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.2 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.80 | 0.25 | ppbv | | ND | 3.6 | ug/m3 |
| 541-73-1 | m-Dichlorobenzene | ND | 0.80 | 0.16 | ppbv | | ND | 4.8 | ug/m3 |
| 95-50-1 | o-Dichlorobenzene | ND | 0.80 | 0.62 | ppbv | | ND | 4.8 | ug/m3 |
| 106-46-7 | p-Dichlorobenzene | ND | 0.80 | 0.76 | ppbv | | ND | 4.8 | ug/m3 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.80 | 0.40 | ppbv | | ND | 3.6 | ug/m3 |
| 64-17-5 | Ethanol | ND | 2.0 | 1.6 | ppbv | | ND | 3.8 | ug/m3 |
| 100-41-4 | Ethylbenzene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | ug/m3 |
| 141-78-6 | Ethyl Acetate | ND | 0.80 | 0.42 | ppbv | | ND | 2.9 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | ND | 0.80 | 0.38 | ppbv | | ND | 3.9 | ug/m3 |

# Summa Cleaning Certification



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1083-SCC | 6W25452.D | 1 | 08/11/22 | TCH | n/a | n/a | V6W1083 |

**The QC reported here (Summa A406) applies to the following samples:** **Method:** TO-15

Batch CP11846 cleaned 08/05/22: JD54338-1(A502)

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | 0.80 | 0.12 | ppbv | | ND | 6.1 | ug/m3 |
| 76-14-2 | Freon 114 | ND | 0.80 | 0.20 | ppbv | | ND | 5.6 | ug/m3 |
| 142-82-5 | Heptane | ND | 0.80 | 0.37 | ppbv | | ND | 3.3 | ug/m3 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.80 | 0.25 | ppbv | | ND | 8.5 | ug/m3 |
| 110-54-3 | Hexane | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | ug/m3 |
| 591-78-6 | 2-Hexanone | ND | 0.80 | 0.58 | ppbv | | ND | 3.3 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | ND | 0.80 | 0.56 | ppbv | | ND | 2.0 | ug/m3 |
| 75-09-2 | Methylene chloride | ND | 0.80 | 0.22 | ppbv | | ND | 2.8 | ug/m3 |
| 78-93-3 | Methyl ethyl ketone | ND | 0.80 | 0.44 | ppbv | | ND | 2.4 | ug/m3 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | 0.80 | 0.29 | ppbv | | ND | 3.3 | ug/m3 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.80 | 0.32 | ppbv | | ND | 2.9 | ug/m3 |
| 80-62-6 | Methylmethacrylate | ND | 0.80 | 0.28 | ppbv | | ND | 3.3 | ug/m3 |
| 115-07-1 | Propylene | ND | 2.0 | 0.57 | ppbv | | ND | 3.4 | ug/m3 |
| 100-42-5 | Styrene | ND | 0.80 | 0.47 | ppbv | | ND | 3.4 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.80 | 0.15 | ppbv | | ND | 4.4 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.80 | 0.19 | ppbv | | ND | 5.5 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.80 | 0.15 | ppbv | | ND | 4.4 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.80 | 0.48 | ppbv | | ND | 5.9 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.80 | 0.35 | ppbv | | ND | 3.9 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.80 | 0.32 | ppbv | | ND | 3.9 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | 0.80 | 0.38 | ppbv | | ND | 3.7 | ug/m3 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 0.80 | 0.37 | ppbv | | ND | 2.4 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.16 | 0.056 | ppbv | | ND | 1.1 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | ND | 0.80 | 0.36 | ppbv | | ND | 2.4 | ug/m3 |
| 108-88-3 | Toluene | ND | 0.80 | 0.23 | ppbv | | ND | 3.0 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.16 | 0.076 | ppbv | | ND | 0.86 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.80 | 0.14 | ppbv | | ND | 4.5 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.80 | 0.28 | ppbv | | ND | 2.0 | ug/m3 |
| 108-05-4 | Vinyl Acetate | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | ug/m3 |
| | m,p-Xylene | ND | 0.80 | 0.56 | ppbv | | ND | 3.5 | ug/m3 |
| 95-47-6 | o-Xylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | ug/m3 |
| 1330-20-7 | Xylenes (total) | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | ug/m3 |

# Summa Cleaning Certification



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1083-SCC | 6W25452.D | 1 | 08/11/22 | TCH | n/a | n/a | V6W1083 |

**The QC reported here (Summa A406) applies to the following samples:** **Method:** TO-15

Batch CP11846 cleaned 08/05/22: JD54338-1(A502)

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 93% | 65-128% |

# Summa Cleaning Certification



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2734-SCC | 2W61625.D | 1 | 09/27/22 | TCH | n/a | n/a | V2W2734 |

**The QC reported here (Summa M441) applies to the following samples:** **Method:** TO-15

Batch CP11872 cleaned 09/21/22: JD54338-2(A409)

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | ND | 0.80 | 0.58 | ppbv | | ND | 1.9 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | ND | 0.80 | 0.34 | ppbv | | ND | 1.8 | ug/m3 |
| 71-43-2 | Benzene | ND | 0.80 | 0.25 | ppbv | | ND | 2.6 | ug/m3 |
| 75-27-4 | Bromodichloromethane | ND | 0.80 | 0.12 | ppbv | | ND | 5.4 | ug/m3 |
| 75-25-2 | Bromoform | ND | 0.80 | 0.28 | ppbv | | ND | 8.3 | ug/m3 |
| 74-83-9 | Bromomethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.1 | ug/m3 |
| 593-60-2 | Bromoethene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | ug/m3 |
| 100-44-7 | Benzyl Chloride | ND | 0.80 | 0.50 | ppbv | | ND | 4.1 | ug/m3 |
| 75-15-0 | Carbon disulfide | ND | 0.80 | 0.18 | ppbv | | ND | 2.5 | ug/m3 |
| 108-90-7 | Chlorobenzene | ND | 0.80 | 0.30 | ppbv | | ND | 3.7 | ug/m3 |
| 75-00-3 | Chloroethane | ND | 0.80 | 0.27 | ppbv | | ND | 2.1 | ug/m3 |
| 67-66-3 | Chloroform | ND | 0.80 | 0.15 | ppbv | | ND | 3.9 | ug/m3 |
| 74-87-3 | Chloromethane | ND | 0.80 | 0.36 | ppbv | | ND | 1.7 | ug/m3 |
| 107-05-1 | 3-Chloropropene | ND | 0.80 | 0.33 | ppbv | | ND | 2.5 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.80 | 0.29 | ppbv | | ND | 4.1 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.80 | 0.16 | ppbv | | ND | 5.0 | ug/m3 |
| 110-82-7 | Cyclohexane | ND | 0.80 | 0.44 | ppbv | | ND | 2.8 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.80 | 0.23 | ppbv | | ND | 3.2 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.80 | 0.24 | ppbv | | ND | 3.2 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | 0.80 | 0.39 | ppbv | | ND | 6.1 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.80 | 0.25 | ppbv | | ND | 3.7 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | ND | 0.80 | 0.47 | ppbv | | ND | 2.9 | ug/m3 |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.80 | 0.13 | ppbv | | ND | 4.0 | ug/m3 |
| 124-48-1 | Dibromochloromethane | ND | 0.80 | 0.21 | ppbv | | ND | 6.8 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.2 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.80 | 0.25 | ppbv | | ND | 3.6 | ug/m3 |
| 541-73-1 | m-Dichlorobenzene | ND | 0.80 | 0.16 | ppbv | | ND | 4.8 | ug/m3 |
| 95-50-1 | o-Dichlorobenzene | ND | 0.80 | 0.62 | ppbv | | ND | 4.8 | ug/m3 |
| 106-46-7 | p-Dichlorobenzene | ND | 0.80 | 0.76 | ppbv | | ND | 4.8 | ug/m3 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.80 | 0.40 | ppbv | | ND | 3.6 | ug/m3 |
| 64-17-5 | Ethanol | ND | 2.0 | 1.6 | ppbv | | ND | 3.8 | ug/m3 |
| 100-41-4 | Ethylbenzene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | ug/m3 |
| 141-78-6 | Ethyl Acetate | ND | 0.80 | 0.42 | ppbv | | ND | 2.9 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | ND | 0.80 | 0.38 | ppbv | | ND | 3.9 | ug/m3 |

# Summa Cleaning Certification

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2734-SCC | 2W61625.D | 1 | 09/27/22 | TCH | n/a | n/a | V2W2734 |



**The QC reported here (Summa M441) applies to the following samples:** **Method:** TO-15

Batch CP11872 cleaned 09/21/22: JD54338-2(A409)

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | 0.80 | 0.12 | ppbv | | ND | 6.1 | ug/m3 |
| 76-14-2 | Freon 114 | ND | 0.80 | 0.20 | ppbv | | ND | 5.6 | ug/m3 |
| 142-82-5 | Heptane | ND | 0.80 | 0.37 | ppbv | | ND | 3.3 | ug/m3 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.80 | 0.25 | ppbv | | ND | 8.5 | ug/m3 |
| 110-54-3 | Hexane | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | ug/m3 |
| 591-78-6 | 2-Hexanone | ND | 0.80 | 0.58 | ppbv | | ND | 3.3 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | ND | 0.80 | 0.56 | ppbv | | ND | 2.0 | ug/m3 |
| 75-09-2 | Methylene chloride | ND | 0.80 | 0.22 | ppbv | | ND | 2.8 | ug/m3 |
| 78-93-3 | Methyl ethyl ketone | ND | 0.80 | 0.44 | ppbv | | ND | 2.4 | ug/m3 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | 0.80 | 0.29 | ppbv | | ND | 3.3 | ug/m3 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.80 | 0.32 | ppbv | | ND | 2.9 | ug/m3 |
| 80-62-6 | Methylmethacrylate | ND | 0.80 | 0.28 | ppbv | | ND | 3.3 | ug/m3 |
| 115-07-1 | Propylene | ND | 2.0 | 0.57 | ppbv | | ND | 3.4 | ug/m3 |
| 100-42-5 | Styrene | ND | 0.80 | 0.47 | ppbv | | ND | 3.4 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.80 | 0.15 | ppbv | | ND | 4.4 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.80 | 0.19 | ppbv | | ND | 5.5 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.80 | 0.15 | ppbv | | ND | 4.4 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.80 | 0.48 | ppbv | | ND | 5.9 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.80 | 0.35 | ppbv | | ND | 3.9 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.80 | 0.32 | ppbv | | ND | 3.9 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | 0.80 | 0.38 | ppbv | | ND | 3.7 | ug/m3 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 0.80 | 0.37 | ppbv | | ND | 2.4 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.16 | 0.056 | ppbv | | ND | 1.1 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | ND | 0.80 | 0.36 | ppbv | | ND | 2.4 | ug/m3 |
| 108-88-3 | Toluene | ND | 0.80 | 0.23 | ppbv | | ND | 3.0 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.16 | 0.076 | ppbv | | ND | 0.86 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.80 | 0.14 | ppbv | | ND | 4.5 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.80 | 0.28 | ppbv | | ND | 2.0 | ug/m3 |
| 108-05-4 | Vinyl Acetate | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | ug/m3 |
| | m,p-Xylene | ND | 0.80 | 0.56 | ppbv | | ND | 3.5 | ug/m3 |
| 95-47-6 | o-Xylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | ug/m3 |
| 1330-20-7 | Xylenes (total) | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | ug/m3 |

# Summa Cleaning Certification



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2734-SCC | 2W61625.D | 1 | 09/27/22 | TCH | n/a | n/a | V2W2734 |

**The QC reported here (Summa M441) applies to the following samples:** **Method:** TO-15

Batch CP11872 cleaned 09/21/22: JD54338-2(A409)

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 93% | 65-128% |

# Instrument Performance Check (BFB)



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2W2709-BFB
**Lab File ID:** 2W61009.D
**Instrument ID:** GCMS2W
**Injection Date:** 08/19/22
**Injection Time:** 10:50

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 14581 | 21.8 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 32835 | 49.2 | | Pass |
| 95 | Base peak, 100% relative abundance | 66739 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 4420 | 6.62 | | Pass |
| 173 | Less than 2.0% of mass 174 | 243 | 0.36 | (0.44) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 55160 | 82.7 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 3990 | 5.98 | (7.23) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 52933 | 79.3 | (96.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3276 | 4.91 | (6.19) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 | 11:22 | 00:32 | Initial cal 0.04 |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 | 11:55 | 01:05 | Initial cal 0.1 |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 | 12:27 | 01:37 | Initial cal 0.2 |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 | 12:59 | 02:09 | Initial cal 0.5 |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 | 14:02 | 03:12 | Initial cal 5 |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 | 14:34 | 03:44 | Initial cal 10 |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 | 15:08 | 04:18 | Initial cal 20 |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 | 15:45 | 04:55 | Initial cal 40 |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 | 16:25 | 05:35 | Initial cal 50 |
| V2W2709-ICV2709 | 2W61022.D | 08/19/22 | 18:00 | 07:10 | Initial cal verification 10 |

# Instrument Performance Check (BFB)



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2W2734-BFB
**Lab File ID:** 2W61610.D
**Instrument ID:** GCMS2W
**Injection Date:** 09/27/22
**Injection Time:** 07:25

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 16757 | 22.1 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 39912 | 52.7 | | Pass |
| 95 | Base peak, 100% relative abundance | 75664 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 4899 | 6.47 | | Pass |
| 173 | Less than 2.0% of mass 174 | 263 | 0.35 | (0.42) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 63341 | 83.7 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 4486 | 5.93 | (7.08) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 59096 | 78.1 | (93.3) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 4116 | 5.44 | (6.96) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2W2734-CC2709 | 2W61611.D | 09/27/22 | 07:58 | 00:33 | Continuing cal 10 |
| V2W2734-BS | 2W61612.D | 09/27/22 | 08:57 | 01:32 | Blank Spike |
| V2W2734-BSD | 2W61613.D | 09/27/22 | 09:29 | 02:04 | Blank Spike Duplicate |
| V2W2734-MB | 2W61615.D | 09/27/22 | 10:49 | 03:24 | Method Blank |
| ZZZZZZ | 2W61616.D | 09/27/22 | 11:38 | 04:13 | (unrelated sample) |
| ZZZZZZ | 2W61617.D | 09/27/22 | 12:16 | 04:51 | (unrelated sample) |
| JD52279-6 | 2W61618.D | 09/27/22 | 12:55 | 05:30 | (used for QC only; not part of job JD54338) |
| JD52279-6DUP | 2W61619.D | 09/27/22 | 13:36 | 06:11 | Duplicate |
| ZZZZZZ | 2W61620.D | 09/27/22 | 14:08 | 06:43 | (unrelated sample) |
| ZZZZZZ | 2W61621.D | 09/27/22 | 14:59 | 07:34 | (unrelated sample) |
| V2W2734-SCC | 2W61622.D | 09/27/22 | 15:37 | 08:12 | Summa Cleaning Certification |
| V2W2734-SCC | 2W61623.D | 09/27/22 | 16:15 | 08:50 | Summa Cleaning Certification |
| V2W2734-SCC | 2W61625.D | 09/27/22 | 17:24 | 09:59 | Summa Cleaning Certification |
| V2W2734-SCC | 2W61626.D | 09/27/22 | 17:57 | 10:32 | Summa Cleaning Certification |
| V2W2734-SCC | 2W61627.D | 09/27/22 | 18:29 | 11:04 | Summa Cleaning Certification |

# Instrument Performance Check (BFB)



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V6W1077-BFB
**Lab File ID:** 6W25315.D
**Instrument ID:** GCMS6W
**Injection Date:** 08/04/22
**Injection Time:** 17:09

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 11429 | 23.1 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 25645 | 51.8 | | Pass |
| 95 | Base peak, 100% relative abundance | 49485 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 3335 | 6.74 | | Pass |
| 173 | Less than 2.0% of mass 174 | 242 | 0.49 | (0.61) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 39416 | 79.7 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 2844 | 5.75 | (7.22) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 38541 | 77.9 | (97.8) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 2529 | 5.11 | (6.56) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 | 17:54 | 00:45 | Initial cal 0.04 |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 | 18:39 | 01:30 | Initial cal 0.1 |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 | 19:25 | 02:16 | Initial cal 0.2 |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 | 20:11 | 03:02 | Initial cal 0.5 |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 | 21:41 | 04:32 | Initial cal 5 |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 | 22:26 | 05:17 | Initial cal 10 |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 | 23:14 | 06:05 | Initial cal 20 |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 | 00:05 | 06:56 | Initial cal 40 |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 | 00:59 | 07:50 | Initial cal 50 |
| V6W1077-ICV1077 | 6W25328.D | 08/05/22 | 03:17 | 10:08 | Initial cal verification 10 |

# Instrument Performance Check (BFB)



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V6W1083-BFB
**Lab File ID:** 6W25438.D
**Instrument ID:** GCMS6W
**Injection Date:** 08/11/22
**Injection Time:** 07:24

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 11717 | 20.6 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 28251 | 49.8 | | Pass |
| 95 | Base peak, 100% relative abundance | 56760 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 3771 | 6.64 | | Pass |
| 173 | Less than 2.0% of mass 174 | 353 | 0.62 | (0.71) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 49619 | 87.4 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 3741 | 6.59 | (7.54) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 48008 | 84.6 | (96.8) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3126 | 5.51 | (6.51) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V6W1083-CC1077 | 6W25439.D | 08/11/22 | 08:20 | 00:56 | Continuing cal 10 |
| V6W1083-BS | 6W25440.D | 08/11/22 | 09:21 | 01:57 | Blank Spike |
| V6W1083-BSD | 6W25441.D | 08/11/22 | 10:25 | 03:01 | Blank Spike Duplicate |
| V6W1083-MB | 6W25444.D | 08/11/22 | 12:47 | 05:23 | Method Blank |
| JD49709-1 | 6W25445.D | 08/11/22 | 13:33 | 06:09 | (used for QC only; not part of job JD54338) |
| JD49709-1DUP | 6W25446.D | 08/11/22 | 14:19 | 06:55 | Duplicate |
| ZZZZZZ | 6W25447.D | 08/11/22 | 15:24 | 08:00 | (unrelated sample) |
| V6W1083-SCC | 6W25451.D | 08/11/22 | 18:38 | 11:14 | Summa Cleaning Certification |
| V6W1083-SCC | 6W25452.D | 08/11/22 | 19:25 | 12:01 | Summa Cleaning Certification |
| V6W1083-SCC | 6W25453.D | 08/11/22 | 20:12 | 12:48 | Summa Cleaning Certification |
| V6W1083-SCC | 6W25454.D | 08/11/22 | 20:58 | 13:34 | Summa Cleaning Certification |
| V6W1083-SCC | 6W25455.D | 08/11/22 | 21:50 | 14:26 | Summa Cleaning Certification |

# Instrument Performance Check (BFB)



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V6W1125-BFB
**Lab File ID:** 6W26446.D
**Instrument ID:** GCMS6W
**Injection Date:** 10/19/22
**Injection Time:** 17:44

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 11894 | 25.6 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 23544 | 50.6 | | Pass |
| 95 | Base peak, 100% relative abundance | 46541 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 3244 | 6.97 | | Pass |
| 173 | Less than 2.0% of mass 174 | 352 | 0.76 | (0.98) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 35928 | 77.2 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 2432 | 5.23 | (6.77) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 34165 | 73.4 | (95.1) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 2442 | 5.25 | (7.15) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 | 19:10 | 01:26 | Initial cal 0.04 |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 | 19:43 | 01:59 | Initial cal 0.1 |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 | 20:15 | 02:31 | Initial cal 0.2 |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 | 20:47 | 03:03 | Initial cal 0.5 |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 | 21:52 | 04:08 | Initial cal 5 |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 | 22:25 | 04:41 | Initial cal 10 |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 | 22:57 | 05:13 | Initial cal 20 |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 | 23:29 | 05:45 | Initial cal 40 |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 | 00:03 | 06:19 | Initial cal 50 |
| V6W1125-ICV1125 | 6W26462.D | 10/20/22 | 09:08 | 15:24 | Initial cal verification 10 |

# Instrument Performance Check (BFB)



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V6W1137-BFB
**Lab File ID:** 6W26822.D
**Instrument ID:** GCMS6W
**Injection Date:** 11/03/22
**Injection Time:** 09:04

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 9728 | 24.4 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 20293 | 50.9 | | Pass |
| 95 | Base peak, 100% relative abundance | 39835 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 2732 | 6.86 | | Pass |
| 173 | Less than 2.0% of mass 174 | 369 | 0.93 | (1.16) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 31795 | 79.8 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 2169 | 5.44 | (6.82) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 31512 | 79.1 | (99.1) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 2021 | 5.07 | (6.41) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V6W1137-CC1125 | 6W26823.D | 11/03/22 | 09:36 | 00:32 | Continuing cal 10 |
| V6W1137-BS | 6W26824.D | 11/03/22 | 10:14 | 01:10 | Blank Spike |
| V6W1137-BSD | 6W26825.D | 11/03/22 | 10:45 | 01:41 | Blank Spike Duplicate |
| V6W1137-MB | 6W26830.D | 11/03/22 | 14:39 | 05:35 | Method Blank |
| ZZZZZZ | 6W26831.D | 11/03/22 | 15:48 | 06:44 | (unrelated sample) |
| ZZZZZZ | 6W26832.D | 11/03/22 | 16:21 | 07:17 | (unrelated sample) |
| JD53652-1 | 6W26833.D | 11/03/22 | 16:53 | 07:49 | (used for QC only; not part of job JD54338) |
| JD53652-1DUP | 6W26834.D | 11/03/22 | 17:26 | 08:22 | Duplicate |
| ZZZZZZ | 6W26835.D | 11/03/22 | 17:59 | 08:55 | (unrelated sample) |
| ZZZZZZ | 6W26836.D | 11/03/22 | 18:31 | 09:27 | (unrelated sample) |
| ZZZZZZ | 6W26837.D | 11/03/22 | 19:03 | 09:59 | (unrelated sample) |
| ZZZZZZ | 6W26838.D | 11/03/22 | 19:35 | 10:31 | (unrelated sample) |
| ZZZZZZ | 6W26839.D | 11/03/22 | 20:07 | 11:03 | (unrelated sample) |
| ZZZZZZ | 6W26840.D | 11/03/22 | 20:40 | 11:36 | (unrelated sample) |
| JD54338-1 | 6W26841.D | 11/03/22 | 21:12 | 12:08 | VPOST GAC |
| JD54338-2 | 6W26842.D | 11/03/22 | 21:46 | 12:42 | VINF |
| ZZZZZZ | 6W26843.D | 11/03/22 | 22:19 | 13:15 | (unrelated sample) |
| ZZZZZZ | 6W26844.D | 11/03/22 | 22:51 | 13:47 | (unrelated sample) |
| ZZZZZZ | 6W26846.D | 11/03/22 | 23:58 | 14:54 | (unrelated sample) |
| ZZZZZZ | 6W26847.D | 11/04/22 | 00:31 | 15:27 | (unrelated sample) |
| ZZZZZZ | 6W26848.D | 11/04/22 | 01:04 | 16:00 | (unrelated sample) |
| ZZZZZZ | 6W26849.D | 11/04/22 | 01:37 | 16:33 | (unrelated sample) |
| V6W1137-SCC | 6W26852.D | 11/04/22 | 03:16 | 18:12 | Summa Cleaning Certification |
| V6W1137-SCC | 6W26853.D | 11/04/22 | 03:48 | 18:44 | Summa Cleaning Certification |

# Instrument Performance Check (BFB)



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Sample:** | V6W1137-BFB | **Injection Date:** | 11/03/22 |
| **Lab File ID:** | 6W26822.D | **Injection Time:** | 09:04 |
| **Instrument ID:** | GCMS6W | | |

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V6W1137-SCC | 6W26854.D | 11/04/22 | 04:20 | 19:16 | Summa Cleaning Certification |
| V6W1137-SCC | 6W26855.D | 11/04/22 | 04:53 | 19:49 | Summa Cleaning Certification |
| V6W1137-SCC | 6W26856.D | 11/04/22 | 05:25 | 20:21 | Summa Cleaning Certification |
| V6W1137-SCC | 6W26859.D | 11/04/22 | 07:04 | 22:00 | Summa Cleaning Certification |
| V6W1137-SCC | 6W26860.D | 11/04/22 | 07:37 | 22:33 | Summa Cleaning Certification |

# Instrument Performance Check (BFB)



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V6W1138-BFB
**Lab File ID:** 6W26862.D
**Instrument ID:** GCMS6W
**Injection Date:** 11/04/22
**Injection Time:** 09:04

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 10199 | 24.6 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 21080 | 50.8 | | Pass |
| 95 | Base peak, 100% relative abundance | 41456 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 2916 | 7.03 | | Pass |
| 173 | Less than 2.0% of mass 174 | 288 | 0.69 | (0.89) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 32229 | 77.7 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 2498 | 6.03 | (7.75) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 31000 | 74.8 | (96.2) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 2186 | 5.27 | (7.05) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V6W1138-CC1125 | 6W26863.D | 11/04/22 | 09:36 | 00:32 | Continuing cal 10 |
| V6W1138-BS | 6W26864.D | 11/04/22 | 10:15 | 01:11 | Blank Spike |
| V6W1138-BSD | 6W26865.D | 11/04/22 | 10:47 | 01:43 | Blank Spike Duplicate |
| V6W1138-MB | 6W26867.D | 11/04/22 | 11:58 | 02:54 | Method Blank |
| JD54338-1 | 6W26868.D | 11/04/22 | 12:51 | 03:47 | VPOST GAC |
| ZZZZZZ | 6W26869.D | 11/04/22 | 13:22 | 04:18 | (unrelated sample) |
| ZZZZZZ | 6W26870.D | 11/04/22 | 13:54 | 04:50 | (unrelated sample) |
| JD54423-15 | 6W26871.D | 11/04/22 | 14:27 | 05:23 | (used for QC only; not part of job JD54338) |
| JD54423-15DUP | 6W26872.D | 11/04/22 | 15:00 | 05:56 | Duplicate |
| ZZZZZZ | 6W26874.D | 11/04/22 | 16:06 | 07:02 | (unrelated sample) |
| ZZZZZZ | 6W26876.D | 11/04/22 | 17:10 | 08:06 | (unrelated sample) |
| ZZZZZZ | 6W26878.D | 11/04/22 | 18:16 | 09:12 | (unrelated sample) |
| ZZZZZZ | 6W26880.D | 11/04/22 | 19:21 | 10:17 | (unrelated sample) |
| ZZZZZZ | 6W26882.D | 11/04/22 | 20:25 | 11:21 | (unrelated sample) |
| ZZZZZZ | 6W26884.D | 11/04/22 | 21:30 | 12:26 | (unrelated sample) |
| V6W1138-SCC | 6W26899.D | 11/05/22 | 05:49 | 20:45 | Summa Cleaning Certification |
| V6W1138-SCC | 6W26900.D | 11/05/22 | 06:21 | 21:17 | Summa Cleaning Certification |

# Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V2W2734-CC2709 | **Injection Date:** | 09/27/22 |
| **Lab File ID:** | 2W61611.D | **Injection Time:** | 07:58 |
| **Instrument ID:** | GCMS2W | **Method:** | TO-15 |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| Check Std | 79324 | 3.61 | 441027 | 4.93 | 400342 | 10.59 |
| Upper Limit [a] | 111054 | 3.94 | 617438 | 5.26 | 560479 | 10.92 |
| Lower Limit [b] | 47594 | 3.28 | 264616 | 4.60 | 240205 | 10.26 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| V2W2734-BS | 79585 | 3.61 | 440838 | 4.93 | 389034 | 10.59 |
| V2W2734-BSD | 86056 | 3.61 | 462656 | 4.93 | 409400 | 10.59 |
| V2W2734-MB | 77815 | 3.61 | 428161 | 4.93 | 371065 | 10.58 |
| ZZZZZZ | 73348 | 3.61 | 403612 | 4.93 | 359340 | 10.58 |
| ZZZZZZ | 75503 | 3.61 | 406784 | 4.93 | 359285 | 10.59 |
| JD52279-6 | 71319 | 3.61 | 391417 | 4.93 | 343130 | 10.58 |
| JD52279-6DUP | 62960 | 3.61 | 350279 | 4.93 | 333718 | 10.58 |
| ZZZZZZ | 62377 | 3.62 | 345287 | 4.94 | 328575 | 10.59 |
| ZZZZZZ | 71275 | 3.62 | 404314 | 4.93 | 345074 | 10.59 |
| V2W2734-SCC | 73103 | 3.61 | 402675 | 4.93 | 347492 | 10.59 |
| V2W2734-SCC | 72509 | 3.61 | 401802 | 4.93 | 353462 | 10.58 |
| V2W2734-SCC | 70657 | 3.61 | 391460 | 4.93 | 335472 | 10.59 |
| V2W2734-SCC | 69380 | 3.61 | 382933 | 4.93 | 332342 | 10.59 |
| V2W2734-SCC | 69067 | 3.61 | 380725 | 4.93 | 330185 | 10.59 |

**IS 1** = Bromochloromethane
**IS 2** = 1,4-Difluorobenzene
**IS 3** = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

# Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V6W1083-CC1077 | **Injection Date:** | 08/11/22 |
| **Lab File ID:** | 6W25439.D | **Injection Time:** | 08:20 |
| **Instrument ID:** | GCMS6W | **Method:** | TO-15 |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| Check Std | 58959 | 3.42 | 301259 | 4.79 | 259233 | 10.60 |
| Upper Limit [a] | 82543 | 3.75 | 421763 | 5.12 | 362926 | 10.93 |
| Lower Limit [b] | 35375 | 3.09 | 180755 | 4.46 | 155540 | 10.27 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| V6W1083-BS | 60504 | 3.42 | 307857 | 4.79 | 263070 | 10.61 |
| V6W1083-BSD | 60081 | 3.41 | 304482 | 4.79 | 262246 | 10.61 |
| V6W1083-MB | 62033 | 3.42 | 317377 | 4.79 | 278641 | 10.60 |
| JD49709-1 | 62367 | 3.42 | 323254 | 4.79 | 282750 | 10.61 |
| JD49709-1DUP | 62231 | 3.42 | 320711 | 4.79 | 278424 | 10.60 |
| ZZZZZZ | 62233 | 3.42 | 328767 | 4.79 | 279151 | 10.60 |
| V6W1083-SCC | 61133 | 3.42 | 310280 | 4.79 | 271754 | 10.61 |
| V6W1083-SCC | 58536 | 3.42 | 298947 | 4.79 | 263446 | 10.61 |
| V6W1083-SCC | 59517 | 3.42 | 305815 | 4.79 | 270764 | 10.60 |
| V6W1083-SCC | 58606 | 3.42 | 300854 | 4.79 | 270026 | 10.61 |
| V6W1083-SCC | 59215 | 3.42 | 303901 | 4.79 | 267290 | 10.61 |

**IS 1** = Bromochloromethane
**IS 2** = 1,4-Difluorobenzene
**IS 3** = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

# Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V6W1137-CC1125 | **Injection Date:** | 11/03/22 |
| **Lab File ID:** | 6W26823.D | **Injection Time:** | 09:36 |
| **Instrument ID:** | GCMS6W | **Method:** | TO-15 |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| Check Std | 45375 | 3.34 | 225669 | 4.73 | 185640 | 10.59 |
| Upper Limit [a] | 63525 | 3.67 | 315937 | 5.06 | 259896 | 10.92 |
| Lower Limit [b] | 27225 | 3.01 | 135401 | 4.40 | 111384 | 10.26 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| V6W1137-BS | 45781 | 3.34 | 229465 | 4.73 | 188055 | 10.58 |
| V6W1137-BSD | 46044 | 3.34 | 228615 | 4.73 | 186065 | 10.59 |
| V6W1137-MB | 44863 | 3.34 | 225395 | 4.73 | 177281 | 10.58 |
| ZZZZZZ | 46311 | 3.34 | 233915 | 4.73 | 184536 | 10.58 |
| ZZZZZZ | 46321 | 3.34 | 231889 | 4.74 | 185520 | 10.59 |
| JD53652-1 | 46064 | 3.34 | 230866 | 4.74 | 185266 | 10.59 |
| JD53652-1DUP | 45425 | 3.34 | 228554 | 4.74 | 185306 | 10.59 |
| ZZZZZZ | 45471 | 3.34 | 226890 | 4.74 | 186201 | 10.58 |
| ZZZZZZ | 45636 | 3.34 | 230801 | 4.74 | 187292 | 10.59 |
| ZZZZZZ | 44404 | 3.34 | 226103 | 4.73 | 182708 | 10.59 |
| ZZZZZZ | 44973 | 3.34 | 228366 | 4.73 | 185054 | 10.58 |
| ZZZZZZ | 46218 | 3.34 | 233544 | 4.73 | 185806 | 10.58 |
| ZZZZZZ | 45831 | 3.34 | 227794 | 4.74 | 182134 | 10.59 |
| JD54338-1 | 44814 | 3.34 | 228657 | 4.74 | 182102 | 10.59 |
| JD54338-2 | 44877 | 3.34 | 225821 | 4.74 | 180115 | 10.59 |
| ZZZZZZ | 46528 | 3.34 | 232549 | 4.74 | 184554 | 10.59 |
| ZZZZZZ | 46845 | 3.34 | 233978 | 4.74 | 186850 | 10.59 |
| ZZZZZZ | 45733 | 3.34 | 231862 | 4.73 | 185363 | 10.59 |
| ZZZZZZ | 45629 | 3.34 | 231303 | 4.74 | 184161 | 10.59 |
| ZZZZZZ | 46093 | 3.34 | 233234 | 4.74 | 188550 | 10.59 |
| ZZZZZZ | 45709 | 3.34 | 229580 | 4.73 | 185671 | 10.59 |
| V6W1137-SCC | 45404 | 3.34 | 229315 | 4.74 | 183331 | 10.59 |
| V6W1137-SCC | 44537 | 3.34 | 226134 | 4.73 | 179728 | 10.59 |
| V6W1137-SCC | 44548 | 3.34 | 226227 | 4.73 | 180042 | 10.59 |
| V6W1137-SCC | 44511 | 3.34 | 224346 | 4.73 | 177193 | 10.59 |
| V6W1137-SCC | 44942 | 3.34 | 223311 | 4.74 | 177299 | 10.59 |
| V6W1137-SCC | 45108 | 3.34 | 227705 | 4.73 | 180276 | 10.59 |
| V6W1137-SCC | 45255 | 3.34 | 225281 | 4.73 | 179524 | 10.58 |

**IS 1** = Bromochloromethane
**IS 2** = 1,4-Difluorobenzene
**IS 3** = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

# Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V6W1138-CC1125 | **Injection Date:** | 11/04/22 |
| **Lab File ID:** | 6W26863.D | **Injection Time:** | 09:36 |
| **Instrument ID:** | GCMS6W | **Method:** | TO-15 |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| Check Std | 45370 | 3.34 | 228035 | 4.74 | 188440 | 10.59 |
| Upper Limit [a] | 63518 | 3.67 | 319249 | 5.07 | 263816 | 10.92 |
| Lower Limit [b] | 27222 | 3.01 | 136821 | 4.41 | 113064 | 10.26 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| V6W1138-BS | 47373 | 3.34 | 236723 | 4.73 | 191883 | 10.59 |
| V6W1138-BSD | 45663 | 3.34 | 229639 | 4.73 | 189185 | 10.59 |
| V6W1138-MB | 46239 | 3.34 | 231869 | 4.73 | 184569 | 10.59 |
| JD54338-1 | 45513 | 3.34 | 230658 | 4.73 | 180587 | 10.58 |
| ZZZZZZ | 45306 | 3.34 | 228528 | 4.73 | 182025 | 10.58 |
| ZZZZZZ | 45536 | 3.34 | 228467 | 4.74 | 181743 | 10.59 |
| JD54423-15 | 45433 | 3.34 | 229327 | 4.74 | 183979 | 10.59 |
| JD54423-15DUP | 45230 | 3.34 | 226403 | 4.73 | 182016 | 10.59 |
| ZZZZZZ | 46312 | 3.34 | 233539 | 4.74 | 188202 | 10.59 |
| ZZZZZZ | 44815 | 3.34 | 226816 | 4.73 | 180341 | 10.59 |
| ZZZZZZ | 45328 | 3.34 | 226568 | 4.73 | 184172 | 10.59 |
| ZZZZZZ | 44947 | 3.34 | 227308 | 4.73 | 183588 | 10.59 |
| ZZZZZZ | 46256 | 3.34 | 229392 | 4.74 | 186227 | 10.59 |
| ZZZZZZ | 44852 | 3.34 | 227775 | 4.73 | 181525 | 10.59 |
| V6W1138-SCC | 44619 | 3.34 | 226255 | 4.74 | 180009 | 10.59 |
| V6W1138-SCC | 43545 | 3.34 | 220625 | 4.73 | 176124 | 10.59 |

**IS 1** = Bromochloromethane
**IS 2** = 1,4-Difluorobenzene
**IS 3** = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Tetrachloroethylene | 9.45 | 4.93 | 1.917 | ok | 1.917 | 1.857-1.977 |
| Trichloroethylene | 5.52 | 4.93 | 1.120 | ok | 1.119 | 1.059-1.179 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.61 | ok | 3.61 | 3.28-3.94 | 65497 | ok | 69048 | 41429-96667 |
| 1,4-Difluorobenzene | 4.93 | ok | 4.93 | 4.60-5.26 | 359956 | ok | 370656 | 222394-518918 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 318930 | ok | 336964 | 202178-471750 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.47 | 3.61 | 0.684 | ok | 0.682 | 0.622-0.742 |
| Acrolein | 2.42 | 3.61 | 0.670 | ok | 0.670 | 0.610-0.730 |
| Acrylonitrile | 2.60 | 3.61 | 0.720 | ok | 0.721 | 0.661-0.781 |
| Acetonitrile | 2.37 | 3.61 | 0.657 | ok | 0.657 | 0.597-0.717 |
| 1,3-Butadiene | 2.08 | 3.61 | 0.576 | ok | 0.578 | 0.518-0.638 |
| Benzene | 4.60 | 3.61 | 1.274 | ok | 1.274 | 1.214-1.334 |
| Bromobenzene | 14.31 | 10.59 | 1.351 | ok | 1.352 | 1.292-1.412 |
| Bromodichloromethane | 5.46 | 4.93 | 1.108 | ok | 1.108 | 1.048-1.168 |
| Bromoform | 11.78 | 10.59 | 1.112 | ok | 1.114 | 1.054-1.174 |
| Bromomethane | 2.18 | 3.61 | 0.604 | ok | 0.606 | 0.546-0.666 |
| Bromoethene | 2.38 | 3.61 | 0.659 | ok | 0.659 | 0.599-0.719 |
| n-Butane | 2.10 | 3.61 | 0.582 | ok | 0.584 | 0.524-0.644 |
| Benzyl Chloride | 16.85 | 10.59 | 1.591 | ok | 1.592 | 1.532-1.652 |
| n-Butylbenzene | 17.57 | 10.59 | 1.659 | ok | 1.660 | 1.600-1.720 |
| sec-Butylbenzene | 17.04 | 10.59 | 1.609 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.75 | 10.59 | 1.582 | ok | 1.583 | 1.523-1.643 |
| Carbon disulfide | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Chlorobenzene | 10.66 | 10.59 | 1.007 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.86 | 3.61 | 0.515 | ok | 0.517 | 0.457-0.577 |
| Chloroethane | 2.25 | 3.61 | 0.623 | ok | 0.623 | 0.563-0.683 |
| Chlorotrifluoroethene | 1.87 | 3.61 | 0.518 | ok | 0.520 | 0.460-0.580 |
| Chloroform | 3.69 | 3.61 | 1.022 | ok | 1.021 | 0.961-1.081 |
| Chloromethane | 1.95 | 3.61 | 0.540 | ok | 0.542 | 0.482-0.602 |
| 3-Chloropropene | 2.79 | 3.61 | 0.773 | ok | 0.773 | 0.713-0.833 |
| 2-Chlorotoluene | 15.45 | 10.59 | 1.459 | ok | 1.459 | 1.399-1.519 |
| Carbon tetrachloride | 4.71 | 3.61 | 1.305 | ok | 1.305 | 1.245-1.365 |
| Cyclohexane | 4.81 | 4.93 | 0.976 | ok | 0.976 | 0.916-1.036 |
| 1,1-Dichloroethane | 3.16 | 3.61 | 0.875 | ok | 0.875 | 0.815-0.935 |
| 1,1-Dichloroethylene | 2.71 | 3.61 | 0.751 | ok | 0.751 | 0.691-0.811 |
| 1,2-Dibromoethane (EDB) | 8.59 | 4.93 | 1.742 | ok | 1.743 | 1.683-1.803 |
| 1,2-Dichloroethane | 4.11 | 3.61 | 1.139 | ok | 1.139 | 1.079-1.199 |
| 1,2-Dichloropropane | 5.28 | 4.93 | 1.071 | ok | 1.071 | 1.011-1.131 |
| 1,3-Dichloropropane | 7.76 | 4.93 | 1.574 | ok | 1.574 | 1.514-1.634 |
| Dichlorodifluoromethane | 1.89 | 3.61 | 0.524 | ok | 0.526 | 0.466-0.586 |
| Dichlorofluoromethane | 2.28 | 3.61 | 0.632 | ok | 0.633 | 0.573-0.693 |
| Dibromochloromethane | 8.24 | 4.93 | 1.671 | ok | 1.671 | 1.611-1.731 |
| Dibromomethane | 5.24 | 4.93 | 1.063 | ok | 1.063 | 1.003-1.123 |
| trans-1,2-Dichloroethylene | 3.08 | 3.61 | 0.853 | ok | 0.853 | 0.793-0.913 |
| cis-1,2-Dichloroethylene | 3.54 | 3.61 | 0.981 | ok | 0.978 | 0.918-1.038 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 6.46 | 4.93 | 1.310 | ok | 1.313 | 1.253-1.373 |
| m-Dichlorobenzene | 16.82 | 10.59 | 1.588 | ok | 1.590 | 1.530-1.650 |
| o-Dichlorobenzene | 17.20 | 10.59 | 1.624 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.91 | 10.59 | 1.597 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.16 | 4.93 | 1.452 | ok | 1.452 | 1.392-1.512 |
| Di-Isopropyl ether | 3.67 | 3.61 | 1.017 | ok | 1.017 | 0.957-1.077 |
| 2,3-Dimethylpentane | 5.08 | 4.93 | 1.030 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.19 | 3.61 | 1.161 | ok | 1.162 | 1.102-1.222 |
| Ethanol | 2.28 | 3.61 | 0.632 | ok | 0.634 | 0.574-0.694 |
| Ethylbenzene | 11.54 | 10.59 | 1.090 | ok | 1.091 | 1.031-1.151 |
| Ethyl Acrylate | 5.41 | 4.93 | 1.097 | ok | 1.095 | 1.035-1.155 |
| 4-Ethyltoluene | 16.15 | 10.59 | 1.525 | ok | 1.525 | 1.465-1.585 |
| Freon 113 | 2.85 | 3.61 | 0.789 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 1.99 | 3.61 | 0.551 | ok | 0.553 | 0.493-0.613 |
| Freon 123 | 2.44 | 3.61 | 0.676 | ok | 0.674 | 0.614-0.734 |
| Freon 123A | 2.45 | 3.61 | 0.679 | ok | 0.679 | 0.619-0.739 |
| Freon 142B | 1.94 | 3.61 | 0.537 | ok | 0.540 | 0.480-0.600 |
| Freon 152A | 1.84 | 3.61 | 0.510 | ok | 0.512 | 0.452-0.572 |
| Heptane | 5.93 | 4.93 | 1.203 | ok | 1.204 | 1.144-1.264 |
| Hexachlorobutadiene | 18.80 | 10.59 | 1.775 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.75 | 10.59 | 1.676 | ok | 1.677 | 1.617-1.737 |
| Hexane | 3.67 | 3.61 | 1.017 | ok | 1.015 | 0.955-1.075 |
| 2-Hexanone | 8.29 | 4.93 | 1.682 | ok | 1.678 | 1.618-1.738 |
| Iodomethane | 2.69 | 3.61 | 0.745 | ok | 0.745 | 0.685-0.805 |
| Isopropylbenzene | 14.43 | 10.59 | 1.363 | ok | 1.364 | 1.304-1.424 |
| Isopropyl Alcohol | 2.54 | 3.61 | 0.704 | ok | 0.702 | 0.642-0.762 |
| p-Isopropyltoluene | 17.22 | 10.59 | 1.626 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.75 | 3.61 | 0.762 | ok | 0.762 | 0.702-0.822 |
| Methyl ethyl ketone | 3.34 | 3.61 | 0.925 | ok | 0.923 | 0.863-0.983 |
| Methyl Isobutyl Ketone | 6.59 | 4.93 | 1.337 | ok | 1.334 | 1.274-1.394 |
| Methyl Tert Butyl Ether | 3.19 | 3.61 | 0.884 | ok | 0.884 | 0.824-0.944 |
| Methylmethacrylate | 5.84 | 4.93 | 1.185 | ok | 1.182 | 1.122-1.242 |
| Naphthalene | 18.53 | 10.59 | 1.750 | ok | 1.751 | 1.691-1.811 |
| Nonane | 14.03 | 10.59 | 1.325 | ok | 1.326 | 1.266-1.386 |
| Octane | 9.59 | 4.93 | 1.945 | ok | 1.946 | 1.886-2.006 |
| Pentane | 2.63 | 3.61 | 0.729 | ok | 0.729 | 0.669-0.789 |
| n-Propylbenzene | 15.78 | 10.59 | 1.490 | ok | 1.491 | 1.431-1.551 |
| Propylene | 1.87 | 3.61 | 0.518 | ok | 0.520 | 0.460-0.580 |
| Styrene | 12.70 | 10.59 | 1.199 | ok | 1.200 | 1.140-1.260 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 4.27 | 3.61 | 1.183 | ok | 1.185 | 1.125-1.245 |
| 1,1,1,2-Tetrachloroethane | 10.67 | 10.59 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.92 | 10.59 | 1.220 | ok | 1.221 | 1.161-1.281 |
| 1,1,2-Trichloroethane | 7.32 | 4.93 | 1.485 | ok | 1.486 | 1.426-1.546 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.59 | 1.746 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.21 | 10.59 | 1.247 | ok | 1.248 | 1.188-1.308 |
| 1,2,3-Trimethylbenzene | 17.15 | 10.59 | 1.619 | ok | 1.620 | 1.560-1.680 |
| 1,2,4-Trimethylbenzene | 16.76 | 10.59 | 1.583 | ok | 1.584 | 1.524-1.644 |
| 1,3,5-Trimethylbenzene | 16.30 | 10.59 | 1.539 | ok | 1.540 | 1.480-1.600 |
| 2,2,4-Trimethylpentane | 5.62 | 4.93 | 1.140 | ok | 1.139 | 1.079-1.199 |
| Tertiary Butyl Alcohol | 2.72 | 3.61 | 0.753 | ok | 0.753 | 0.693-0.813 |
| Tetrachloroethylene | 9.45 | 4.93 | 1.917 | ok | 1.917 | 1.857-1.977 |
| Tetrahydrofuran | 3.93 | 3.61 | 1.089 | ok | 1.083 | 1.023-1.143 |
| Toluene | 7.70 | 4.93 | 1.562 | ok | 1.562 | 1.502-1.622 |
| Trichloroethylene | 5.52 | 4.93 | 1.120 | ok | 1.119 | 1.059-1.179 |
| Trichlorofluoromethane | 2.52 | 3.61 | 0.698 | ok | 0.698 | 0.638-0.758 |
| Vinyl chloride | 2.03 | 3.61 | 0.562 | ok | 0.565 | 0.505-0.625 |
| Vinyl Acetate | 3.23 | 3.61 | 0.895 | ok | 0.895 | 0.835-0.955 |
| m,p-Xylene | 11.98 | 10.59 | 1.131 | ok | 1.132 | 1.072-1.192 |
| o-Xylene | 12.91 | 10.59 | 1.219 | ok | 1.220 | 1.160-1.280 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.61 | ok | 3.61 | 3.28-3.94 | 64903 | ok | 69048 | 41429-96667 |
| 1,4-Difluorobenzene | 4.93 | ok | 4.93 | 4.60-5.26 | 355487 | ok | 370656 | 222394-518918 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 317521 | ok | 336964 | 202178-471750 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.47 | 3.61 | 0.684 | ok | 0.682 | 0.622-0.742 |
| Acrolein | 2.41 | 3.61 | 0.668 | ok | 0.670 | 0.610-0.730 |
| Acrylonitrile | 2.60 | 3.61 | 0.720 | ok | 0.721 | 0.661-0.781 |
| Acetonitrile | 2.37 | 3.61 | 0.657 | ok | 0.657 | 0.597-0.717 |
| 1,3-Butadiene | 2.08 | 3.61 | 0.576 | ok | 0.578 | 0.518-0.638 |
| Benzene | 4.60 | 3.61 | 1.274 | ok | 1.274 | 1.214-1.334 |
| Bromobenzene | 14.30 | 10.59 | 1.350 | ok | 1.352 | 1.292-1.412 |
| Bromodichloromethane | 5.46 | 4.93 | 1.108 | ok | 1.108 | 1.048-1.168 |
| Bromoform | 11.79 | 10.59 | 1.113 | ok | 1.114 | 1.054-1.174 |
| Bromomethane | 2.19 | 3.61 | 0.607 | ok | 0.606 | 0.546-0.666 |
| Bromoethene | 2.38 | 3.61 | 0.659 | ok | 0.659 | 0.599-0.719 |
| n-Butane | 2.11 | 3.61 | 0.584 | ok | 0.584 | 0.524-0.644 |
| Benzyl Chloride | 16.85 | 10.59 | 1.591 | ok | 1.592 | 1.532-1.652 |
| n-Butylbenzene | 17.57 | 10.59 | 1.659 | ok | 1.660 | 1.600-1.720 |
| sec-Butylbenzene | 17.04 | 10.59 | 1.609 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.76 | 10.59 | 1.583 | ok | 1.583 | 1.523-1.643 |
| Carbon disulfide | 2.85 | 3.61 | 0.789 | ok | 0.787 | 0.727-0.847 |
| Chlorobenzene | 10.66 | 10.59 | 1.007 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.86 | 3.61 | 0.515 | ok | 0.517 | 0.457-0.577 |
| Chloroethane | 2.25 | 3.61 | 0.623 | ok | 0.623 | 0.563-0.683 |
| Chlorotrifluoroethene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Chloroform | 3.68 | 3.61 | 1.019 | ok | 1.021 | 0.961-1.081 |
| Chloromethane | 1.95 | 3.61 | 0.540 | ok | 0.542 | 0.482-0.602 |
| 3-Chloropropene | 2.79 | 3.61 | 0.773 | ok | 0.773 | 0.713-0.833 |
| 2-Chlorotoluene | 15.43 | 10.59 | 1.457 | ok | 1.459 | 1.399-1.519 |
| Carbon tetrachloride | 4.71 | 3.61 | 1.305 | ok | 1.305 | 1.245-1.365 |
| Cyclohexane | 4.81 | 4.93 | 0.976 | ok | 0.976 | 0.916-1.036 |
| 1,1-Dichloroethane | 3.15 | 3.61 | 0.873 | ok | 0.875 | 0.815-0.935 |
| 1,1-Dichloroethylene | 2.71 | 3.61 | 0.751 | ok | 0.751 | 0.691-0.811 |
| 1,2-Dibromoethane (EDB) | 8.58 | 4.93 | 1.740 | ok | 1.743 | 1.683-1.803 |
| 1,2-Dichloroethane | 4.11 | 3.61 | 1.139 | ok | 1.139 | 1.079-1.199 |
| 1,2-Dichloropropane | 5.28 | 4.93 | 1.071 | ok | 1.071 | 1.011-1.131 |
| 1,3-Dichloropropane | 7.75 | 4.93 | 1.572 | ok | 1.574 | 1.514-1.634 |
| 1,4-Dioxane | 5.58 | 4.93 | 1.132 | ok | 1.123 | 1.063-1.183 |
| Dichlorodifluoromethane | 1.90 | 3.61 | 0.526 | ok | 0.526 | 0.466-0.586 |
| Dichlorofluoromethane | 2.28 | 3.61 | 0.632 | ok | 0.633 | 0.573-0.693 |
| Dibromochloromethane | 8.23 | 4.93 | 1.669 | ok | 1.671 | 1.611-1.731 |
| Dibromomethane | 5.24 | 4.93 | 1.063 | ok | 1.063 | 1.003-1.123 |
| trans-1,2-Dichloroethylene | 3.08 | 3.61 | 0.853 | ok | 0.853 | 0.793-0.913 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.53 | 3.61 | 0.978 | ok | 0.978 | 0.918-1.038 |
| cis-1,3-Dichloropropene | 6.47 | 4.93 | 1.312 | ok | 1.313 | 1.253-1.373 |
| m-Dichlorobenzene | 16.83 | 10.59 | 1.589 | ok | 1.590 | 1.530-1.650 |
| o-Dichlorobenzene | 17.21 | 10.59 | 1.625 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.91 | 10.59 | 1.597 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.16 | 4.93 | 1.452 | ok | 1.452 | 1.392-1.512 |
| Di-Isopropyl ether | 3.67 | 3.61 | 1.017 | ok | 1.017 | 0.957-1.077 |
| 2,3-Dimethylpentane | 5.07 | 4.93 | 1.028 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.20 | 3.61 | 1.163 | ok | 1.162 | 1.102-1.222 |
| Ethanol | 2.29 | 3.61 | 0.634 | ok | 0.634 | 0.574-0.694 |
| Ethylbenzene | 11.55 | 10.59 | 1.091 | ok | 1.091 | 1.031-1.151 |
| Ethyl Acetate | 3.67 | 3.61 | 1.017 | ok | 1.018 | 0.958-1.078 |
| Ethyl Acrylate | 5.40 | 4.93 | 1.095 | ok | 1.095 | 1.035-1.155 |
| 4-Ethyltoluene | 16.14 | 10.59 | 1.524 | ok | 1.525 | 1.465-1.585 |
| Freon 113 | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 1.99 | 3.61 | 0.551 | ok | 0.553 | 0.493-0.613 |
| Freon 123 | 2.43 | 3.61 | 0.673 | ok | 0.674 | 0.614-0.734 |
| Freon 123A | 2.45 | 3.61 | 0.679 | ok | 0.679 | 0.619-0.739 |
| Freon 142B | 1.95 | 3.61 | 0.540 | ok | 0.540 | 0.480-0.600 |
| Freon 152A | 1.84 | 3.61 | 0.510 | ok | 0.512 | 0.452-0.572 |
| Heptane | 5.93 | 4.93 | 1.203 | ok | 1.204 | 1.144-1.264 |
| Hexachlorobutadiene | 18.80 | 10.59 | 1.775 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.75 | 10.59 | 1.676 | ok | 1.677 | 1.617-1.737 |
| Hexane | 3.66 | 3.61 | 1.014 | ok | 1.015 | 0.955-1.075 |
| 2-Hexanone | 8.29 | 4.93 | 1.682 | ok | 1.678 | 1.618-1.738 |
| Iodomethane | 2.69 | 3.61 | 0.745 | ok | 0.745 | 0.685-0.805 |
| Isopropylbenzene | 14.43 | 10.59 | 1.363 | ok | 1.364 | 1.304-1.424 |
| Isopropyl Alcohol | 2.53 | 3.61 | 0.701 | ok | 0.702 | 0.642-0.762 |
| p-Isopropyltoluene | 17.22 | 10.59 | 1.626 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.75 | 3.61 | 0.762 | ok | 0.762 | 0.702-0.822 |
| Methyl ethyl ketone | 3.34 | 3.61 | 0.925 | ok | 0.923 | 0.863-0.983 |
| Methyl Isobutyl Ketone | 6.58 | 4.93 | 1.335 | ok | 1.334 | 1.274-1.394 |
| Methyl Tert Butyl Ether | 3.19 | 3.61 | 0.884 | ok | 0.884 | 0.824-0.944 |
| Methylmethacrylate | 5.83 | 4.93 | 1.183 | ok | 1.182 | 1.122-1.242 |
| Naphthalene | 18.53 | 10.59 | 1.750 | ok | 1.751 | 1.691-1.811 |
| Nonane | 14.03 | 10.59 | 1.325 | ok | 1.326 | 1.266-1.386 |
| Octane | 9.60 | 4.93 | 1.947 | ok | 1.946 | 1.886-2.006 |
| Pentane | 2.63 | 3.61 | 0.729 | ok | 0.729 | 0.669-0.789 |
| n-Propylbenzene | 15.77 | 10.59 | 1.489 | ok | 1.491 | 1.431-1.551 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Styrene | 12.70 | 10.59 | 1.199 | ok | 1.200 | 1.140-1.260 |
| 1,1,1-Trichloroethane | 4.28 | 3.61 | 1.186 | ok | 1.185 | 1.125-1.245 |
| 1,1,1,2-Tetrachloroethane | 10.67 | 10.59 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.92 | 10.59 | 1.220 | ok | 1.221 | 1.161-1.281 |
| 1,1,2-Trichloroethane | 7.33 | 4.93 | 1.487 | ok | 1.486 | 1.426-1.546 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.59 | 1.746 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.22 | 10.59 | 1.248 | ok | 1.248 | 1.188-1.308 |
| 1,2,3-Trimethylbenzene | 17.15 | 10.59 | 1.619 | ok | 1.620 | 1.560-1.680 |
| 1,2,4-Trimethylbenzene | 16.77 | 10.59 | 1.584 | ok | 1.584 | 1.524-1.644 |
| 1,3,5-Trimethylbenzene | 16.30 | 10.59 | 1.539 | ok | 1.540 | 1.480-1.600 |
| 2,2,4-Trimethylpentane | 5.61 | 4.93 | 1.138 | ok | 1.139 | 1.079-1.199 |
| Tertiary Butyl Alcohol | 2.72 | 3.61 | 0.753 | ok | 0.753 | 0.693-0.813 |
| Tetrachloroethylene | 9.45 | 4.93 | 1.917 | ok | 1.917 | 1.857-1.977 |
| Tetrahydrofuran | 3.93 | 3.61 | 1.089 | ok | 1.083 | 1.023-1.143 |
| Toluene | 7.70 | 4.93 | 1.562 | ok | 1.562 | 1.502-1.622 |
| Trichloroethylene | 5.52 | 4.93 | 1.120 | ok | 1.119 | 1.059-1.179 |
| Trichlorofluoromethane | 2.52 | 3.61 | 0.698 | ok | 0.698 | 0.638-0.758 |
| Vinyl chloride | 2.04 | 3.61 | 0.565 | ok | 0.565 | 0.505-0.625 |
| Vinyl Acetate | 3.24 | 3.61 | 0.898 | ok | 0.895 | 0.835-0.955 |
| m,p-Xylene | 11.98 | 10.59 | 1.131 | ok | 1.132 | 1.072-1.192 |
| o-Xylene | 12.91 | 10.59 | 1.219 | ok | 1.220 | 1.160-1.280 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.61 | ok | 3.61 | 3.28-3.94 | 64509 | ok | 69048 | 41429-96667 |
| 1,4-Difluorobenzene | 4.93 | ok | 4.93 | 4.60-5.26 | 353558 | ok | 370656 | 222394-518918 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 315511 | ok | 336964 | 202178-471750 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.46 | 3.61 | 0.681 | ok | 0.682 | 0.622-0.742 |
| Acrolein | 2.43 | 3.61 | 0.673 | ok | 0.670 | 0.610-0.730 |
| Acrylonitrile | 2.60 | 3.61 | 0.720 | ok | 0.721 | 0.661-0.781 |
| Acetonitrile | 2.37 | 3.61 | 0.657 | ok | 0.657 | 0.597-0.717 |
| 1,3-Butadiene | 2.09 | 3.61 | 0.579 | ok | 0.578 | 0.518-0.638 |
| Benzene | 4.60 | 3.61 | 1.274 | ok | 1.274 | 1.214-1.334 |
| Bromobenzene | 14.31 | 10.58 | 1.353 | ok | 1.352 | 1.292-1.412 |
| Bromodichloromethane | 5.46 | 4.93 | 1.108 | ok | 1.108 | 1.048-1.168 |
| Bromoform | 11.79 | 10.58 | 1.114 | ok | 1.114 | 1.054-1.174 |
| Bromomethane | 2.19 | 3.61 | 0.607 | ok | 0.606 | 0.546-0.666 |
| Bromoethene | 2.38 | 3.61 | 0.659 | ok | 0.659 | 0.599-0.719 |
| n-Butane | 2.11 | 3.61 | 0.584 | ok | 0.584 | 0.524-0.644 |
| Benzyl Chloride | 16.85 | 10.58 | 1.593 | ok | 1.592 | 1.532-1.652 |
| n-Butylbenzene | 17.57 | 10.58 | 1.661 | ok | 1.660 | 1.600-1.720 |
| sec-Butylbenzene | 17.04 | 10.58 | 1.611 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.76 | 10.58 | 1.584 | ok | 1.583 | 1.523-1.643 |
| Carbon disulfide | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Chlorobenzene | 10.66 | 10.58 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.87 | 3.61 | 0.518 | ok | 0.517 | 0.457-0.577 |
| Chloroethane | 2.25 | 3.61 | 0.623 | ok | 0.623 | 0.563-0.683 |
| Chlorotrifluoroethene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Chloroform | 3.68 | 3.61 | 1.019 | ok | 1.021 | 0.961-1.081 |
| Chloromethane | 1.96 | 3.61 | 0.543 | ok | 0.542 | 0.482-0.602 |
| 3-Chloropropene | 2.79 | 3.61 | 0.773 | ok | 0.773 | 0.713-0.833 |
| 2-Chlorotoluene | 15.44 | 10.58 | 1.459 | ok | 1.459 | 1.399-1.519 |
| Carbon tetrachloride | 4.71 | 3.61 | 1.305 | ok | 1.305 | 1.245-1.365 |
| Cyclohexane | 4.81 | 4.93 | 0.976 | ok | 0.976 | 0.916-1.036 |
| 1,1-Dichloroethane | 3.16 | 3.61 | 0.875 | ok | 0.875 | 0.815-0.935 |
| 1,1-Dichloroethylene | 2.71 | 3.61 | 0.751 | ok | 0.751 | 0.691-0.811 |
| 1,2-Dibromoethane (EDB) | 8.59 | 4.93 | 1.742 | ok | 1.743 | 1.683-1.803 |
| 1,2-Dichloroethane | 4.11 | 3.61 | 1.139 | ok | 1.139 | 1.079-1.199 |
| 1,2-Dichloropropane | 5.28 | 4.93 | 1.071 | ok | 1.071 | 1.011-1.131 |
| 1,3-Dichloropropane | 7.75 | 4.93 | 1.572 | ok | 1.574 | 1.514-1.634 |
| 1,4-Dioxane | 5.55 | 4.93 | 1.126 | ok | 1.123 | 1.063-1.183 |
| Dichlorodifluoromethane | 1.90 | 3.61 | 0.526 | ok | 0.526 | 0.466-0.586 |
| Dichlorofluoromethane | 2.29 | 3.61 | 0.634 | ok | 0.633 | 0.573-0.693 |
| Dibromochloromethane | 8.23 | 4.93 | 1.669 | ok | 1.671 | 1.611-1.731 |
| Dibromomethane | 5.24 | 4.93 | 1.063 | ok | 1.063 | 1.003-1.123 |
| trans-1,2-Dichloroethylene | 3.08 | 3.61 | 0.853 | ok | 0.853 | 0.793-0.913 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.53 | 3.61 | 0.978 | ok | 0.978 | 0.918-1.038 |
| cis-1,3-Dichloropropene | 6.47 | 4.93 | 1.312 | ok | 1.313 | 1.253-1.373 |
| m-Dichlorobenzene | 16.83 | 10.58 | 1.591 | ok | 1.590 | 1.530-1.650 |
| o-Dichlorobenzene | 17.20 | 10.58 | 1.626 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.91 | 10.58 | 1.598 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.15 | 4.93 | 1.450 | ok | 1.452 | 1.392-1.512 |
| Di-Isopropyl ether | 3.67 | 3.61 | 1.017 | ok | 1.017 | 0.957-1.077 |
| 2,3-Dimethylpentane | 5.07 | 4.93 | 1.028 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.19 | 3.61 | 1.161 | ok | 1.162 | 1.102-1.222 |
| Ethanol | 2.29 | 3.61 | 0.634 | ok | 0.634 | 0.574-0.694 |
| Ethylbenzene | 11.54 | 10.58 | 1.091 | ok | 1.091 | 1.031-1.151 |
| Ethyl Acetate | 3.68 | 3.61 | 1.019 | ok | 1.018 | 0.958-1.078 |
| Ethyl Acrylate | 5.40 | 4.93 | 1.095 | ok | 1.095 | 1.035-1.155 |
| 4-Ethyltoluene | 16.14 | 10.58 | 1.526 | ok | 1.525 | 1.465-1.585 |
| Freon 113 | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 2.00 | 3.61 | 0.554 | ok | 0.553 | 0.493-0.613 |
| Freon 123 | 2.43 | 3.61 | 0.673 | ok | 0.674 | 0.614-0.734 |
| Freon 123A | 2.45 | 3.61 | 0.679 | ok | 0.679 | 0.619-0.739 |
| Freon 142B | 1.95 | 3.61 | 0.540 | ok | 0.540 | 0.480-0.600 |
| Freon 152A | 1.85 | 3.61 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Heptane | 5.93 | 4.93 | 1.203 | ok | 1.204 | 1.144-1.264 |
| Hexachlorobutadiene | 18.79 | 10.58 | 1.776 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.75 | 10.58 | 1.678 | ok | 1.677 | 1.617-1.737 |
| Hexane | 3.67 | 3.61 | 1.017 | ok | 1.015 | 0.955-1.075 |
| 2-Hexanone | 8.29 | 4.93 | 1.682 | ok | 1.678 | 1.618-1.738 |
| Iodomethane | 2.69 | 3.61 | 0.745 | ok | 0.745 | 0.685-0.805 |
| Isopropylbenzene | 14.43 | 10.58 | 1.364 | ok | 1.364 | 1.304-1.424 |
| Isopropyl Alcohol | 2.54 | 3.61 | 0.704 | ok | 0.702 | 0.642-0.762 |
| p-Isopropyltoluene | 17.22 | 10.58 | 1.628 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.75 | 3.61 | 0.762 | ok | 0.762 | 0.702-0.822 |
| Methyl ethyl ketone | 3.34 | 3.61 | 0.925 | ok | 0.923 | 0.863-0.983 |
| Methyl Isobutyl Ketone | 6.58 | 4.93 | 1.335 | ok | 1.334 | 1.274-1.394 |
| Methyl Tert Butyl Ether | 3.19 | 3.61 | 0.884 | ok | 0.884 | 0.824-0.944 |
| Methylmethacrylate | 5.83 | 4.93 | 1.183 | ok | 1.182 | 1.122-1.242 |
| Naphthalene | 18.53 | 10.58 | 1.751 | ok | 1.751 | 1.691-1.811 |
| Nonane | 14.02 | 10.58 | 1.325 | ok | 1.326 | 1.266-1.386 |
| Octane | 9.59 | 4.93 | 1.945 | ok | 1.946 | 1.886-2.006 |
| Pentane | 2.63 | 3.61 | 0.729 | ok | 0.729 | 0.669-0.789 |
| n-Propylbenzene | 15.78 | 10.58 | 1.491 | ok | 1.491 | 1.431-1.551 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Styrene | 12.69 | 10.58 | 1.199 | ok | 1.200 | 1.140-1.260 |
| 1,1,1-Trichloroethane | 4.27 | 3.61 | 1.183 | ok | 1.185 | 1.125-1.245 |
| 1,1,1,2-Tetrachloroethane | 10.68 | 10.58 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.92 | 10.58 | 1.221 | ok | 1.221 | 1.161-1.281 |
| 1,1,2-Trichloroethane | 7.32 | 4.93 | 1.485 | ok | 1.486 | 1.426-1.546 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.58 | 1.748 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.20 | 10.58 | 1.248 | ok | 1.248 | 1.188-1.308 |
| 1,2,3-Trimethylbenzene | 17.15 | 10.58 | 1.621 | ok | 1.620 | 1.560-1.680 |
| 1,2,4-Trimethylbenzene | 16.77 | 10.58 | 1.585 | ok | 1.584 | 1.524-1.644 |
| 1,3,5-Trimethylbenzene | 16.30 | 10.58 | 1.541 | ok | 1.540 | 1.480-1.600 |
| 2,2,4-Trimethylpentane | 5.61 | 4.93 | 1.138 | ok | 1.139 | 1.079-1.199 |
| Tertiary Butyl Alcohol | 2.72 | 3.61 | 0.753 | ok | 0.753 | 0.693-0.813 |
| Tetrachloroethylene | 9.44 | 4.93 | 1.915 | ok | 1.917 | 1.857-1.977 |
| Tetrahydrofuran | 3.92 | 3.61 | 1.086 | ok | 1.083 | 1.023-1.143 |
| Toluene | 7.70 | 4.93 | 1.562 | ok | 1.562 | 1.502-1.622 |
| Trichloroethylene | 5.52 | 4.93 | 1.120 | ok | 1.119 | 1.059-1.179 |
| Trichlorofluoromethane | 2.52 | 3.61 | 0.698 | ok | 0.698 | 0.638-0.758 |
| Vinyl chloride | 2.04 | 3.61 | 0.565 | ok | 0.565 | 0.505-0.625 |
| Vinyl Acetate | 3.23 | 3.61 | 0.895 | ok | 0.895 | 0.835-0.955 |
| m,p-Xylene | 11.97 | 10.58 | 1.131 | ok | 1.132 | 1.072-1.192 |
| o-Xylene | 12.91 | 10.58 | 1.220 | ok | 1.220 | 1.160-1.280 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.61 | ok | 3.61 | 3.28-3.94 | 64185 | ok | 69048 | 41429-96667 |
| 1,4-Difluorobenzene | 4.93 | ok | 4.93 | 4.60-5.26 | 349033 | ok | 370656 | 222394-518918 |
| Chlorobenzene-D5 | 10.58 | ok | 10.59 | 10.26-10.92 | 311657 | ok | 336964 | 202178-471750 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.46 | 3.61 | 0.681 | ok | 0.682 | 0.622-0.742 |
| Acrolein | 2.42 | 3.61 | 0.670 | ok | 0.670 | 0.610-0.730 |
| Acrylonitrile | 2.60 | 3.61 | 0.720 | ok | 0.721 | 0.661-0.781 |
| Acetonitrile | 2.37 | 3.61 | 0.657 | ok | 0.657 | 0.597-0.717 |
| 1,3-Butadiene | 2.09 | 3.61 | 0.579 | ok | 0.578 | 0.518-0.638 |
| Benzene | 4.60 | 3.61 | 1.274 | ok | 1.274 | 1.214-1.334 |
| Bromobenzene | 14.31 | 10.58 | 1.353 | ok | 1.352 | 1.292-1.412 |
| Bromodichloromethane | 5.46 | 4.93 | 1.108 | ok | 1.108 | 1.048-1.168 |
| Bromoform | 11.79 | 10.58 | 1.114 | ok | 1.114 | 1.054-1.174 |
| Bromomethane | 2.19 | 3.61 | 0.607 | ok | 0.606 | 0.546-0.666 |
| Bromoethene | 2.38 | 3.61 | 0.659 | ok | 0.659 | 0.599-0.719 |
| n-Butane | 2.11 | 3.61 | 0.584 | ok | 0.584 | 0.524-0.644 |
| Benzyl Chloride | 16.85 | 10.58 | 1.593 | ok | 1.592 | 1.532-1.652 |
| n-Butylbenzene | 17.57 | 10.58 | 1.661 | ok | 1.660 | 1.600-1.720 |
| sec-Butylbenzene | 17.04 | 10.58 | 1.611 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.76 | 10.58 | 1.584 | ok | 1.583 | 1.523-1.643 |
| Carbon disulfide | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Chlorobenzene | 10.66 | 10.58 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.86 | 3.61 | 0.515 | ok | 0.517 | 0.457-0.577 |
| Chloroethane | 2.25 | 3.61 | 0.623 | ok | 0.623 | 0.563-0.683 |
| Chlorotrifluoroethene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Chloroform | 3.69 | 3.61 | 1.022 | ok | 1.021 | 0.961-1.081 |
| Chloromethane | 1.96 | 3.61 | 0.543 | ok | 0.542 | 0.482-0.602 |
| 3-Chloropropene | 2.79 | 3.61 | 0.773 | ok | 0.773 | 0.713-0.833 |
| 2-Chlorotoluene | 15.44 | 10.58 | 1.459 | ok | 1.459 | 1.399-1.519 |
| Carbon tetrachloride | 4.71 | 3.61 | 1.305 | ok | 1.305 | 1.245-1.365 |
| Cyclohexane | 4.81 | 4.93 | 0.976 | ok | 0.976 | 0.916-1.036 |
| 1,1-Dichloroethane | 3.15 | 3.61 | 0.873 | ok | 0.875 | 0.815-0.935 |
| 1,1-Dichloroethylene | 2.71 | 3.61 | 0.751 | ok | 0.751 | 0.691-0.811 |
| 1,2-Dibromoethane (EDB) | 8.59 | 4.93 | 1.742 | ok | 1.743 | 1.683-1.803 |
| 1,2-Dichloroethane | 4.11 | 3.61 | 1.139 | ok | 1.139 | 1.079-1.199 |
| 1,2-Dichloropropane | 5.28 | 4.93 | 1.071 | ok | 1.071 | 1.011-1.131 |
| 1,3-Dichloropropane | 7.76 | 4.93 | 1.574 | ok | 1.574 | 1.514-1.634 |
| 1,4-Dioxane | 5.53 | 4.93 | 1.122 | ok | 1.123 | 1.063-1.183 |
| Dichlorodifluoromethane | 1.90 | 3.61 | 0.526 | ok | 0.526 | 0.466-0.586 |
| Dichlorofluoromethane | 2.29 | 3.61 | 0.634 | ok | 0.633 | 0.573-0.693 |
| Dibromochloromethane | 8.24 | 4.93 | 1.671 | ok | 1.671 | 1.611-1.731 |
| Dibromomethane | 5.24 | 4.93 | 1.063 | ok | 1.063 | 1.003-1.123 |
| trans-1,2-Dichloroethylene | 3.08 | 3.61 | 0.853 | ok | 0.853 | 0.793-0.913 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.53 | 3.61 | 0.978 | ok | 0.978 | 0.918-1.038 |
| cis-1,3-Dichloropropene | 6.47 | 4.93 | 1.312 | ok | 1.313 | 1.253-1.373 |
| m-Dichlorobenzene | 16.83 | 10.58 | 1.591 | ok | 1.590 | 1.530-1.650 |
| o-Dichlorobenzene | 17.21 | 10.58 | 1.627 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.91 | 10.58 | 1.598 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.16 | 4.93 | 1.452 | ok | 1.452 | 1.392-1.512 |
| Di-Isopropyl ether | 3.67 | 3.61 | 1.017 | ok | 1.017 | 0.957-1.077 |
| 2,3-Dimethylpentane | 5.07 | 4.93 | 1.028 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.19 | 3.61 | 1.161 | ok | 1.162 | 1.102-1.222 |
| Ethanol | 2.29 | 3.61 | 0.634 | ok | 0.634 | 0.574-0.694 |
| Ethylbenzene | 11.55 | 10.58 | 1.092 | ok | 1.091 | 1.031-1.151 |
| Ethyl Acetate | 3.67 | 3.61 | 1.017 | ok | 1.018 | 0.958-1.078 |
| Ethyl Acrylate | 5.39 | 4.93 | 1.093 | ok | 1.095 | 1.035-1.155 |
| 4-Ethyltoluene | 16.14 | 10.58 | 1.526 | ok | 1.525 | 1.465-1.585 |
| Freon 113 | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 2.00 | 3.61 | 0.554 | ok | 0.553 | 0.493-0.613 |
| Freon 123 | 2.43 | 3.61 | 0.673 | ok | 0.674 | 0.614-0.734 |
| Freon 123A | 2.45 | 3.61 | 0.679 | ok | 0.679 | 0.619-0.739 |
| Freon 142B | 1.95 | 3.61 | 0.540 | ok | 0.540 | 0.480-0.600 |
| Freon 152A | 1.85 | 3.61 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Heptane | 5.93 | 4.93 | 1.203 | ok | 1.204 | 1.144-1.264 |
| Hexachlorobutadiene | 18.80 | 10.58 | 1.777 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.75 | 10.58 | 1.678 | ok | 1.677 | 1.617-1.737 |
| Hexane | 3.66 | 3.61 | 1.014 | ok | 1.015 | 0.955-1.075 |
| 2-Hexanone | 8.26 | 4.93 | 1.675 | ok | 1.678 | 1.618-1.738 |
| Iodomethane | 2.69 | 3.61 | 0.745 | ok | 0.745 | 0.685-0.805 |
| Isopropylbenzene | 14.43 | 10.58 | 1.364 | ok | 1.364 | 1.304-1.424 |
| Isopropyl Alcohol | 2.53 | 3.61 | 0.701 | ok | 0.702 | 0.642-0.762 |
| p-Isopropyltoluene | 17.22 | 10.58 | 1.628 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.75 | 3.61 | 0.762 | ok | 0.762 | 0.702-0.822 |
| Methyl ethyl ketone | 3.33 | 3.61 | 0.922 | ok | 0.923 | 0.863-0.983 |
| Methyl Isobutyl Ketone | 6.57 | 4.93 | 1.333 | ok | 1.334 | 1.274-1.394 |
| Methyl Tert Butyl Ether | 3.19 | 3.61 | 0.884 | ok | 0.884 | 0.824-0.944 |
| Methylmethacrylate | 5.82 | 4.93 | 1.181 | ok | 1.182 | 1.122-1.242 |
| Naphthalene | 18.53 | 10.58 | 1.751 | ok | 1.751 | 1.691-1.811 |
| Nonane | 14.03 | 10.58 | 1.326 | ok | 1.326 | 1.266-1.386 |
| Octane | 9.59 | 4.93 | 1.945 | ok | 1.946 | 1.886-2.006 |
| Pentane | 2.63 | 3.61 | 0.729 | ok | 0.729 | 0.669-0.789 |
| n-Propylbenzene | 15.77 | 10.58 | 1.491 | ok | 1.491 | 1.431-1.551 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Styrene | 12.70 | 10.58 | 1.200 | ok | 1.200 | 1.140-1.260 |
| 1,1,1-Trichloroethane | 4.27 | 3.61 | 1.183 | ok | 1.185 | 1.125-1.245 |
| 1,1,1,2-Tetrachloroethane | 10.67 | 10.58 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.92 | 10.58 | 1.221 | ok | 1.221 | 1.161-1.281 |
| 1,1,2-Trichloroethane | 7.32 | 4.93 | 1.485 | ok | 1.486 | 1.426-1.546 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.58 | 1.748 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.21 | 10.58 | 1.249 | ok | 1.248 | 1.188-1.308 |
| 1,2,3-Trimethylbenzene | 17.15 | 10.58 | 1.621 | ok | 1.620 | 1.560-1.680 |
| 1,2,4-Trimethylbenzene | 16.77 | 10.58 | 1.585 | ok | 1.584 | 1.524-1.644 |
| 1,3,5-Trimethylbenzene | 16.30 | 10.58 | 1.541 | ok | 1.540 | 1.480-1.600 |
| 2,2,4-Trimethylpentane | 5.61 | 4.93 | 1.138 | ok | 1.139 | 1.079-1.199 |
| Tertiary Butyl Alcohol | 2.72 | 3.61 | 0.753 | ok | 0.753 | 0.693-0.813 |
| Tetrachloroethylene | 9.45 | 4.93 | 1.917 | ok | 1.917 | 1.857-1.977 |
| Tetrahydrofuran | 3.90 | 3.61 | 1.080 | ok | 1.083 | 1.023-1.143 |
| Toluene | 7.69 | 4.93 | 1.560 | ok | 1.562 | 1.502-1.622 |
| Trichloroethylene | 5.51 | 4.93 | 1.118 | ok | 1.119 | 1.059-1.179 |
| Trichlorofluoromethane | 2.52 | 3.61 | 0.698 | ok | 0.698 | 0.638-0.758 |
| Vinyl chloride | 2.04 | 3.61 | 0.565 | ok | 0.565 | 0.505-0.625 |
| Vinyl Acetate | 3.23 | 3.61 | 0.895 | ok | 0.895 | 0.835-0.955 |
| m,p-Xylene | 11.98 | 10.58 | 1.132 | ok | 1.132 | 1.072-1.192 |
| o-Xylene | 12.91 | 10.58 | 1.220 | ok | 1.220 | 1.160-1.280 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.61 | ok | 3.61 | 3.28-3.94 | 68904 | ok | 69048 | 41429-96667 |
| 1,4-Difluorobenzene | 4.93 | ok | 4.93 | 4.60-5.26 | 372933 | ok | 370656 | 222394-518918 |
| Chlorobenzene-D5 | 10.58 | ok | 10.59 | 10.26-10.92 | 337350 | ok | 336964 | 202178-471750 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.46 | 3.61 | 0.681 | ok | 0.682 | 0.622-0.742 |
| Acrolein | 2.42 | 3.61 | 0.670 | ok | 0.670 | 0.610-0.730 |
| Acrylonitrile | 2.60 | 3.61 | 0.720 | ok | 0.721 | 0.661-0.781 |
| Acetonitrile | 2.37 | 3.61 | 0.657 | ok | 0.657 | 0.597-0.717 |
| 1,3-Butadiene | 2.09 | 3.61 | 0.579 | ok | 0.578 | 0.518-0.638 |
| Benzene | 4.60 | 3.61 | 1.274 | ok | 1.274 | 1.214-1.334 |
| Bromobenzene | 14.31 | 10.58 | 1.353 | ok | 1.352 | 1.292-1.412 |
| Bromodichloromethane | 5.46 | 4.93 | 1.108 | ok | 1.108 | 1.048-1.168 |
| Bromoform | 11.79 | 10.58 | 1.114 | ok | 1.114 | 1.054-1.174 |
| Bromomethane | 2.19 | 3.61 | 0.607 | ok | 0.606 | 0.546-0.666 |
| Bromoethene | 2.38 | 3.61 | 0.659 | ok | 0.659 | 0.599-0.719 |
| n-Butane | 2.11 | 3.61 | 0.584 | ok | 0.584 | 0.524-0.644 |
| Benzyl Chloride | 16.85 | 10.58 | 1.593 | ok | 1.592 | 1.532-1.652 |
| n-Butylbenzene | 17.57 | 10.58 | 1.661 | ok | 1.660 | 1.600-1.720 |
| sec-Butylbenzene | 17.04 | 10.58 | 1.611 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.76 | 10.58 | 1.584 | ok | 1.583 | 1.523-1.643 |
| Carbon disulfide | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Chlorobenzene | 10.66 | 10.58 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.87 | 3.61 | 0.518 | ok | 0.517 | 0.457-0.577 |
| Chloroethane | 2.25 | 3.61 | 0.623 | ok | 0.623 | 0.563-0.683 |
| Chlorotrifluoroethene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Chloroform | 3.69 | 3.61 | 1.022 | ok | 1.021 | 0.961-1.081 |
| Chloromethane | 1.96 | 3.61 | 0.543 | ok | 0.542 | 0.482-0.602 |
| 3-Chloropropene | 2.79 | 3.61 | 0.773 | ok | 0.773 | 0.713-0.833 |
| 2-Chlorotoluene | 15.44 | 10.58 | 1.459 | ok | 1.459 | 1.399-1.519 |
| Carbon tetrachloride | 4.71 | 3.61 | 1.305 | ok | 1.305 | 1.245-1.365 |
| Cyclohexane | 4.81 | 4.93 | 0.976 | ok | 0.976 | 0.916-1.036 |
| 1,1-Dichloroethane | 3.16 | 3.61 | 0.875 | ok | 0.875 | 0.815-0.935 |
| 1,1-Dichloroethylene | 2.71 | 3.61 | 0.751 | ok | 0.751 | 0.691-0.811 |
| 1,2-Dibromoethane (EDB) | 8.59 | 4.93 | 1.742 | ok | 1.743 | 1.683-1.803 |
| 1,2-Dichloroethane | 4.11 | 3.61 | 1.139 | ok | 1.139 | 1.079-1.199 |
| 1,2-Dichloropropane | 5.28 | 4.93 | 1.071 | ok | 1.071 | 1.011-1.131 |
| 1,3-Dichloropropane | 7.76 | 4.93 | 1.574 | ok | 1.574 | 1.514-1.634 |
| 1,4-Dioxane | 5.52 | 4.93 | 1.120 | ok | 1.123 | 1.063-1.183 |
| Dichlorodifluoromethane | 1.90 | 3.61 | 0.526 | ok | 0.526 | 0.466-0.586 |
| Dichlorofluoromethane | 2.29 | 3.61 | 0.634 | ok | 0.633 | 0.573-0.693 |
| Dibromochloromethane | 8.24 | 4.93 | 1.671 | ok | 1.671 | 1.611-1.731 |
| Dibromomethane | 5.24 | 4.93 | 1.063 | ok | 1.063 | 1.003-1.123 |
| trans-1,2-Dichloroethylene | 3.08 | 3.61 | 0.853 | ok | 0.853 | 0.793-0.913 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.53 | 3.61 | 0.978 | ok | 0.978 | 0.918-1.038 |
| cis-1,3-Dichloropropene | 6.47 | 4.93 | 1.312 | ok | 1.313 | 1.253-1.373 |
| m-Dichlorobenzene | 16.83 | 10.58 | 1.591 | ok | 1.590 | 1.530-1.650 |
| o-Dichlorobenzene | 17.21 | 10.58 | 1.627 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.91 | 10.58 | 1.598 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.16 | 4.93 | 1.452 | ok | 1.452 | 1.392-1.512 |
| Di-Isopropyl ether | 3.67 | 3.61 | 1.017 | ok | 1.017 | 0.957-1.077 |
| 2,3-Dimethylpentane | 5.07 | 4.93 | 1.028 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.20 | 3.61 | 1.163 | ok | 1.162 | 1.102-1.222 |
| Ethanol | 2.29 | 3.61 | 0.634 | ok | 0.634 | 0.574-0.694 |
| Ethylbenzene | 11.55 | 10.58 | 1.092 | ok | 1.091 | 1.031-1.151 |
| Ethyl Acetate | 3.67 | 3.61 | 1.017 | ok | 1.018 | 0.958-1.078 |
| Ethyl Acrylate | 5.39 | 4.93 | 1.093 | ok | 1.095 | 1.035-1.155 |
| 4-Ethyltoluene | 16.15 | 10.58 | 1.526 | ok | 1.525 | 1.465-1.585 |
| Freon 113 | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 2.00 | 3.61 | 0.554 | ok | 0.553 | 0.493-0.613 |
| Freon 123 | 2.43 | 3.61 | 0.673 | ok | 0.674 | 0.614-0.734 |
| Freon 123A | 2.45 | 3.61 | 0.679 | ok | 0.679 | 0.619-0.739 |
| Freon 142B | 1.95 | 3.61 | 0.540 | ok | 0.540 | 0.480-0.600 |
| Freon 152A | 1.85 | 3.61 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Heptane | 5.93 | 4.93 | 1.203 | ok | 1.204 | 1.144-1.264 |
| Hexachlorobutadiene | 18.79 | 10.58 | 1.776 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.75 | 10.58 | 1.678 | ok | 1.677 | 1.617-1.737 |
| Hexane | 3.66 | 3.61 | 1.014 | ok | 1.015 | 0.955-1.075 |
| 2-Hexanone | 8.26 | 4.93 | 1.675 | ok | 1.678 | 1.618-1.738 |
| Iodomethane | 2.69 | 3.61 | 0.745 | ok | 0.745 | 0.685-0.805 |
| Isopropylbenzene | 14.44 | 10.58 | 1.365 | ok | 1.364 | 1.304-1.424 |
| Isopropyl Alcohol | 2.53 | 3.61 | 0.701 | ok | 0.702 | 0.642-0.762 |
| p-Isopropyltoluene | 17.22 | 10.58 | 1.628 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.75 | 3.61 | 0.762 | ok | 0.762 | 0.702-0.822 |
| Methyl ethyl ketone | 3.33 | 3.61 | 0.922 | ok | 0.923 | 0.863-0.983 |
| Methyl Isobutyl Ketone | 6.57 | 4.93 | 1.333 | ok | 1.334 | 1.274-1.394 |
| Methyl Tert Butyl Ether | 3.19 | 3.61 | 0.884 | ok | 0.884 | 0.824-0.944 |
| Methylmethacrylate | 5.82 | 4.93 | 1.181 | ok | 1.182 | 1.122-1.242 |
| Naphthalene | 18.53 | 10.58 | 1.751 | ok | 1.751 | 1.691-1.811 |
| Nonane | 14.03 | 10.58 | 1.326 | ok | 1.326 | 1.266-1.386 |
| Octane | 9.59 | 4.93 | 1.945 | ok | 1.946 | 1.886-2.006 |
| Pentane | 2.63 | 3.61 | 0.729 | ok | 0.729 | 0.669-0.789 |
| n-Propylbenzene | 15.78 | 10.58 | 1.491 | ok | 1.491 | 1.431-1.551 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Styrene | 12.70 | 10.58 | 1.200 | ok | 1.200 | 1.140-1.260 |
| 1,1,1-Trichloroethane | 4.28 | 3.61 | 1.186 | ok | 1.185 | 1.125-1.245 |
| 1,1,1,2-Tetrachloroethane | 10.68 | 10.58 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.93 | 10.58 | 1.222 | ok | 1.221 | 1.161-1.281 |
| 1,1,2-Trichloroethane | 7.32 | 4.93 | 1.485 | ok | 1.486 | 1.426-1.546 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.58 | 1.748 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.21 | 10.58 | 1.249 | ok | 1.248 | 1.188-1.308 |
| 1,2,3-Trimethylbenzene | 17.15 | 10.58 | 1.621 | ok | 1.620 | 1.560-1.680 |
| 1,2,4-Trimethylbenzene | 16.77 | 10.58 | 1.585 | ok | 1.584 | 1.524-1.644 |
| 1,3,5-Trimethylbenzene | 16.30 | 10.58 | 1.541 | ok | 1.540 | 1.480-1.600 |
| 2,2,4-Trimethylpentane | 5.61 | 4.93 | 1.138 | ok | 1.139 | 1.079-1.199 |
| Tertiary Butyl Alcohol | 2.72 | 3.61 | 0.753 | ok | 0.753 | 0.693-0.813 |
| Tetrachloroethylene | 9.45 | 4.93 | 1.917 | ok | 1.917 | 1.857-1.977 |
| Tetrahydrofuran | 3.90 | 3.61 | 1.080 | ok | 1.083 | 1.023-1.143 |
| Toluene | 7.70 | 4.93 | 1.562 | ok | 1.562 | 1.502-1.622 |
| Trichloroethylene | 5.52 | 4.93 | 1.120 | ok | 1.119 | 1.059-1.179 |
| Trichlorofluoromethane | 2.52 | 3.61 | 0.698 | ok | 0.698 | 0.638-0.758 |
| Vinyl chloride | 2.04 | 3.61 | 0.565 | ok | 0.565 | 0.505-0.625 |
| Vinyl Acetate | 3.23 | 3.61 | 0.895 | ok | 0.895 | 0.835-0.955 |
| m,p-Xylene | 11.98 | 10.58 | 1.132 | ok | 1.132 | 1.072-1.192 |
| o-Xylene | 12.92 | 10.58 | 1.221 | ok | 1.220 | 1.160-1.280 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.61 | ok | 3.61 | 3.28-3.94 | 68573 | ok | 69048 | 41429-96667 |
| 1,4-Difluorobenzene | 4.93 | ok | 4.93 | 4.60-5.26 | 368687 | ok | 370656 | 222394-518918 |
| Chlorobenzene-D5 | 10.58 | ok | 10.59 | 10.26-10.92 | 341921 | ok | 336964 | 202178-471750 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.46 | 3.61 | 0.681 | ok | 0.682 | 0.622-0.742 |
| Acrolein | 2.42 | 3.61 | 0.670 | ok | 0.670 | 0.610-0.730 |
| Acrylonitrile | 2.60 | 3.61 | 0.720 | ok | 0.721 | 0.661-0.781 |
| Acetonitrile | 2.37 | 3.61 | 0.657 | ok | 0.657 | 0.597-0.717 |
| 1,3-Butadiene | 2.09 | 3.61 | 0.579 | ok | 0.578 | 0.518-0.638 |
| Benzene | 4.60 | 3.61 | 1.274 | ok | 1.274 | 1.214-1.334 |
| Bromobenzene | 14.31 | 10.59 | 1.351 | ok | 1.352 | 1.292-1.412 |
| Bromodichloromethane | 5.46 | 4.93 | 1.108 | ok | 1.108 | 1.048-1.168 |
| Bromoform | 11.80 | 10.59 | 1.114 | ok | 1.114 | 1.054-1.174 |
| Bromomethane | 2.19 | 3.61 | 0.607 | ok | 0.606 | 0.546-0.666 |
| Bromoethene | 2.38 | 3.61 | 0.659 | ok | 0.659 | 0.599-0.719 |
| n-Butane | 2.11 | 3.61 | 0.584 | ok | 0.584 | 0.524-0.644 |
| Benzyl Chloride | 16.85 | 10.59 | 1.591 | ok | 1.592 | 1.532-1.652 |
| n-Butylbenzene | 17.57 | 10.59 | 1.659 | ok | 1.660 | 1.600-1.720 |
| sec-Butylbenzene | 17.04 | 10.59 | 1.609 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.77 | 10.59 | 1.584 | ok | 1.583 | 1.523-1.643 |
| Carbon disulfide | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Chlorobenzene | 10.67 | 10.59 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.87 | 3.61 | 0.518 | ok | 0.517 | 0.457-0.577 |
| Chloroethane | 2.25 | 3.61 | 0.623 | ok | 0.623 | 0.563-0.683 |
| Chlorotrifluoroethene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Chloroform | 3.69 | 3.61 | 1.022 | ok | 1.021 | 0.961-1.081 |
| Chloromethane | 1.96 | 3.61 | 0.543 | ok | 0.542 | 0.482-0.602 |
| 3-Chloropropene | 2.79 | 3.61 | 0.773 | ok | 0.773 | 0.713-0.833 |
| 2-Chlorotoluene | 15.45 | 10.59 | 1.459 | ok | 1.459 | 1.399-1.519 |
| Carbon tetrachloride | 4.71 | 3.61 | 1.305 | ok | 1.305 | 1.245-1.365 |
| Cyclohexane | 4.81 | 4.93 | 0.976 | ok | 0.976 | 0.916-1.036 |
| 1,1-Dichloroethane | 3.16 | 3.61 | 0.875 | ok | 0.875 | 0.815-0.935 |
| 1,1-Dichloroethylene | 2.71 | 3.61 | 0.751 | ok | 0.751 | 0.691-0.811 |
| 1,2-Dibromoethane (EDB) | 8.59 | 4.93 | 1.742 | ok | 1.743 | 1.683-1.803 |
| 1,2-Dichloroethane | 4.11 | 3.61 | 1.139 | ok | 1.139 | 1.079-1.199 |
| 1,2-Dichloropropane | 5.28 | 4.93 | 1.071 | ok | 1.071 | 1.011-1.131 |
| 1,3-Dichloropropane | 7.76 | 4.93 | 1.574 | ok | 1.574 | 1.514-1.634 |
| 1,4-Dioxane | 5.52 | 4.93 | 1.120 | ok | 1.123 | 1.063-1.183 |
| Dichlorodifluoromethane | 1.90 | 3.61 | 0.526 | ok | 0.526 | 0.466-0.586 |
| Dichlorofluoromethane | 2.29 | 3.61 | 0.634 | ok | 0.633 | 0.573-0.693 |
| Dibromochloromethane | 8.24 | 4.93 | 1.671 | ok | 1.671 | 1.611-1.731 |
| Dibromomethane | 5.24 | 4.93 | 1.063 | ok | 1.063 | 1.003-1.123 |
| trans-1,2-Dichloroethylene | 3.08 | 3.61 | 0.853 | ok | 0.853 | 0.793-0.913 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.53 | 3.61 | 0.978 | ok | 0.978 | 0.918-1.038 |
| cis-1,3-Dichloropropene | 6.47 | 4.93 | 1.312 | ok | 1.313 | 1.253-1.373 |
| m-Dichlorobenzene | 16.83 | 10.59 | 1.589 | ok | 1.590 | 1.530-1.650 |
| o-Dichlorobenzene | 17.21 | 10.59 | 1.625 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.91 | 10.59 | 1.597 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.16 | 4.93 | 1.452 | ok | 1.452 | 1.392-1.512 |
| Di-Isopropyl ether | 3.67 | 3.61 | 1.017 | ok | 1.017 | 0.957-1.077 |
| 2,3-Dimethylpentane | 5.07 | 4.93 | 1.028 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.19 | 3.61 | 1.161 | ok | 1.162 | 1.102-1.222 |
| Ethanol | 2.29 | 3.61 | 0.634 | ok | 0.634 | 0.574-0.694 |
| Ethylbenzene | 11.55 | 10.59 | 1.091 | ok | 1.091 | 1.031-1.151 |
| Ethyl Acetate | 3.67 | 3.61 | 1.017 | ok | 1.018 | 0.958-1.078 |
| Ethyl Acrylate | 5.40 | 4.93 | 1.095 | ok | 1.095 | 1.035-1.155 |
| 4-Ethyltoluene | 16.15 | 10.59 | 1.525 | ok | 1.525 | 1.465-1.585 |
| Freon 113 | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 2.00 | 3.61 | 0.554 | ok | 0.553 | 0.493-0.613 |
| Freon 123 | 2.43 | 3.61 | 0.673 | ok | 0.674 | 0.614-0.734 |
| Freon 123A | 2.45 | 3.61 | 0.679 | ok | 0.679 | 0.619-0.739 |
| Freon 142B | 1.95 | 3.61 | 0.540 | ok | 0.540 | 0.480-0.600 |
| Freon 152A | 1.85 | 3.61 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Heptane | 5.94 | 4.93 | 1.205 | ok | 1.204 | 1.144-1.264 |
| Hexachlorobutadiene | 18.79 | 10.59 | 1.774 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.75 | 10.59 | 1.676 | ok | 1.677 | 1.617-1.737 |
| Hexane | 3.66 | 3.61 | 1.014 | ok | 1.015 | 0.955-1.075 |
| 2-Hexanone | 8.26 | 4.93 | 1.675 | ok | 1.678 | 1.618-1.738 |
| Iodomethane | 2.69 | 3.61 | 0.745 | ok | 0.745 | 0.685-0.805 |
| Isopropylbenzene | 14.44 | 10.59 | 1.364 | ok | 1.364 | 1.304-1.424 |
| Isopropyl Alcohol | 2.53 | 3.61 | 0.701 | ok | 0.702 | 0.642-0.762 |
| p-Isopropyltoluene | 17.22 | 10.59 | 1.626 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.75 | 3.61 | 0.762 | ok | 0.762 | 0.702-0.822 |
| Methyl ethyl ketone | 3.33 | 3.61 | 0.922 | ok | 0.923 | 0.863-0.983 |
| Methyl Isobutyl Ketone | 6.57 | 4.93 | 1.333 | ok | 1.334 | 1.274-1.394 |
| Methyl Tert Butyl Ether | 3.19 | 3.61 | 0.884 | ok | 0.884 | 0.824-0.944 |
| Methylmethacrylate | 5.83 | 4.93 | 1.183 | ok | 1.182 | 1.122-1.242 |
| Naphthalene | 18.53 | 10.59 | 1.750 | ok | 1.751 | 1.691-1.811 |
| Nonane | 14.04 | 10.59 | 1.326 | ok | 1.326 | 1.266-1.386 |
| Octane | 9.59 | 4.93 | 1.945 | ok | 1.946 | 1.886-2.006 |
| Pentane | 2.63 | 3.61 | 0.729 | ok | 0.729 | 0.669-0.789 |
| n-Propylbenzene | 15.78 | 10.59 | 1.490 | ok | 1.491 | 1.431-1.551 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Styrene | 12.71 | 10.59 | 1.200 | ok | 1.200 | 1.140-1.260 |
| 1,1,1-Trichloroethane | 4.28 | 3.61 | 1.186 | ok | 1.185 | 1.125-1.245 |
| 1,1,1,2-Tetrachloroethane | 10.68 | 10.59 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.93 | 10.59 | 1.221 | ok | 1.221 | 1.161-1.281 |
| 1,1,2-Trichloroethane | 7.32 | 4.93 | 1.485 | ok | 1.486 | 1.426-1.546 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.59 | 1.746 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.22 | 10.59 | 1.248 | ok | 1.248 | 1.188-1.308 |
| 1,2,3-Trimethylbenzene | 17.15 | 10.59 | 1.619 | ok | 1.620 | 1.560-1.680 |
| 1,2,4-Trimethylbenzene | 16.77 | 10.59 | 1.584 | ok | 1.584 | 1.524-1.644 |
| 1,3,5-Trimethylbenzene | 16.31 | 10.59 | 1.540 | ok | 1.540 | 1.480-1.600 |
| 2,2,4-Trimethylpentane | 5.61 | 4.93 | 1.138 | ok | 1.139 | 1.079-1.199 |
| Tertiary Butyl Alcohol | 2.72 | 3.61 | 0.753 | ok | 0.753 | 0.693-0.813 |
| Tetrachloroethylene | 9.45 | 4.93 | 1.917 | ok | 1.917 | 1.857-1.977 |
| Tetrahydrofuran | 3.90 | 3.61 | 1.080 | ok | 1.083 | 1.023-1.143 |
| Toluene | 7.70 | 4.93 | 1.562 | ok | 1.562 | 1.502-1.622 |
| Trichloroethylene | 5.52 | 4.93 | 1.120 | ok | 1.119 | 1.059-1.179 |
| Trichlorofluoromethane | 2.52 | 3.61 | 0.698 | ok | 0.698 | 0.638-0.758 |
| Vinyl chloride | 2.04 | 3.61 | 0.565 | ok | 0.565 | 0.505-0.625 |
| Vinyl Acetate | 3.23 | 3.61 | 0.895 | ok | 0.895 | 0.835-0.955 |
| m,p-Xylene | 11.98 | 10.59 | 1.131 | ok | 1.132 | 1.072-1.192 |
| o-Xylene | 12.93 | 10.59 | 1.221 | ok | 1.220 | 1.160-1.280 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.61 | ok | 3.61 | 3.28-3.94 | 72073 | ok | 69048 | 41429-96667 |
| 1,4-Difluorobenzene | 4.93 | ok | 4.93 | 4.60-5.26 | 384279 | ok | 370656 | 222394-518918 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 358155 | ok | 336964 | 202178-471750 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.46 | 3.61 | 0.681 | ok | 0.682 | 0.622-0.742 |
| Acrolein | 2.42 | 3.61 | 0.670 | ok | 0.670 | 0.610-0.730 |
| Acrylonitrile | 2.61 | 3.61 | 0.723 | ok | 0.721 | 0.661-0.781 |
| Acetonitrile | 2.37 | 3.61 | 0.657 | ok | 0.657 | 0.597-0.717 |
| 1,3-Butadiene | 2.09 | 3.61 | 0.579 | ok | 0.578 | 0.518-0.638 |
| Benzene | 4.60 | 3.61 | 1.274 | ok | 1.274 | 1.214-1.334 |
| Bromobenzene | 14.32 | 10.59 | 1.352 | ok | 1.352 | 1.292-1.412 |
| Bromodichloromethane | 5.47 | 4.93 | 1.110 | ok | 1.108 | 1.048-1.168 |
| Bromoform | 11.81 | 10.59 | 1.115 | ok | 1.114 | 1.054-1.174 |
| Bromomethane | 2.19 | 3.61 | 0.607 | ok | 0.606 | 0.546-0.666 |
| Bromoethene | 2.38 | 3.61 | 0.659 | ok | 0.659 | 0.599-0.719 |
| n-Butane | 2.11 | 3.61 | 0.584 | ok | 0.584 | 0.524-0.644 |
| Benzyl Chloride | 16.86 | 10.59 | 1.592 | ok | 1.592 | 1.532-1.652 |
| n-Butylbenzene | 17.57 | 10.59 | 1.659 | ok | 1.660 | 1.600-1.720 |
| sec-Butylbenzene | 17.05 | 10.59 | 1.610 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.77 | 10.59 | 1.584 | ok | 1.583 | 1.523-1.643 |
| Carbon disulfide | 2.85 | 3.61 | 0.789 | ok | 0.787 | 0.727-0.847 |
| Chlorobenzene | 10.67 | 10.59 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.87 | 3.61 | 0.518 | ok | 0.517 | 0.457-0.577 |
| Chloroethane | 2.25 | 3.61 | 0.623 | ok | 0.623 | 0.563-0.683 |
| Chlorotrifluoroethene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Chloroform | 3.69 | 3.61 | 1.022 | ok | 1.021 | 0.961-1.081 |
| Chloromethane | 1.96 | 3.61 | 0.543 | ok | 0.542 | 0.482-0.602 |
| 3-Chloropropene | 2.79 | 3.61 | 0.773 | ok | 0.773 | 0.713-0.833 |
| 2-Chlorotoluene | 15.45 | 10.59 | 1.459 | ok | 1.459 | 1.399-1.519 |
| Carbon tetrachloride | 4.71 | 3.61 | 1.305 | ok | 1.305 | 1.245-1.365 |
| Cyclohexane | 4.81 | 4.93 | 0.976 | ok | 0.976 | 0.916-1.036 |
| 1,1-Dichloroethane | 3.16 | 3.61 | 0.875 | ok | 0.875 | 0.815-0.935 |
| 1,1-Dichloroethylene | 2.71 | 3.61 | 0.751 | ok | 0.751 | 0.691-0.811 |
| 1,2-Dibromoethane (EDB) | 8.60 | 4.93 | 1.744 | ok | 1.743 | 1.683-1.803 |
| 1,2-Dichloroethane | 4.11 | 3.61 | 1.139 | ok | 1.139 | 1.079-1.199 |
| 1,2-Dichloropropane | 5.29 | 4.93 | 1.073 | ok | 1.071 | 1.011-1.131 |
| 1,3-Dichloropropane | 7.76 | 4.93 | 1.574 | ok | 1.574 | 1.514-1.634 |
| 1,4-Dioxane | 5.53 | 4.93 | 1.122 | ok | 1.123 | 1.063-1.183 |
| Dichlorodifluoromethane | 1.90 | 3.61 | 0.526 | ok | 0.526 | 0.466-0.586 |
| Dichlorofluoromethane | 2.29 | 3.61 | 0.634 | ok | 0.633 | 0.573-0.693 |
| Dibromochloromethane | 8.24 | 4.93 | 1.671 | ok | 1.671 | 1.611-1.731 |
| Dibromomethane | 5.24 | 4.93 | 1.063 | ok | 1.063 | 1.003-1.123 |
| trans-1,2-Dichloroethylene | 3.08 | 3.61 | 0.853 | ok | 0.853 | 0.793-0.913 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.53 | 3.61 | 0.978 | ok | 0.978 | 0.918-1.038 |
| cis-1,3-Dichloropropene | 6.48 | 4.93 | 1.314 | ok | 1.313 | 1.253-1.373 |
| m-Dichlorobenzene | 16.84 | 10.59 | 1.590 | ok | 1.590 | 1.530-1.650 |
| o-Dichlorobenzene | 17.21 | 10.59 | 1.625 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.92 | 10.59 | 1.598 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.16 | 4.93 | 1.452 | ok | 1.452 | 1.392-1.512 |
| Di-Isopropyl ether | 3.67 | 3.61 | 1.017 | ok | 1.017 | 0.957-1.077 |
| 2,3-Dimethylpentane | 5.08 | 4.93 | 1.030 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.20 | 3.61 | 1.163 | ok | 1.162 | 1.102-1.222 |
| Ethanol | 2.29 | 3.61 | 0.634 | ok | 0.634 | 0.574-0.694 |
| Ethylbenzene | 11.56 | 10.59 | 1.092 | ok | 1.091 | 1.031-1.151 |
| Ethyl Acetate | 3.68 | 3.61 | 1.019 | ok | 1.018 | 0.958-1.078 |
| Ethyl Acrylate | 5.40 | 4.93 | 1.095 | ok | 1.095 | 1.035-1.155 |
| 4-Ethyltoluene | 16.15 | 10.59 | 1.525 | ok | 1.525 | 1.465-1.585 |
| Freon 113 | 2.85 | 3.61 | 0.789 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 2.00 | 3.61 | 0.554 | ok | 0.553 | 0.493-0.613 |
| Freon 123 | 2.44 | 3.61 | 0.676 | ok | 0.674 | 0.614-0.734 |
| Freon 123A | 2.46 | 3.61 | 0.681 | ok | 0.679 | 0.619-0.739 |
| Freon 142B | 1.95 | 3.61 | 0.540 | ok | 0.540 | 0.480-0.600 |
| Freon 152A | 1.85 | 3.61 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Heptane | 5.94 | 4.93 | 1.205 | ok | 1.204 | 1.144-1.264 |
| Hexachlorobutadiene | 18.80 | 10.59 | 1.775 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.75 | 10.59 | 1.676 | ok | 1.677 | 1.617-1.737 |
| Hexane | 3.67 | 3.61 | 1.017 | ok | 1.015 | 0.955-1.075 |
| 2-Hexanone | 8.27 | 4.93 | 1.677 | ok | 1.678 | 1.618-1.738 |
| Iodomethane | 2.69 | 3.61 | 0.745 | ok | 0.745 | 0.685-0.805 |
| Isopropylbenzene | 14.45 | 10.59 | 1.364 | ok | 1.364 | 1.304-1.424 |
| Isopropyl Alcohol | 2.54 | 3.61 | 0.704 | ok | 0.702 | 0.642-0.762 |
| p-Isopropyltoluene | 17.23 | 10.59 | 1.627 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.75 | 3.61 | 0.762 | ok | 0.762 | 0.702-0.822 |
| Methyl ethyl ketone | 3.33 | 3.61 | 0.922 | ok | 0.923 | 0.863-0.983 |
| Methyl Isobutyl Ketone | 6.58 | 4.93 | 1.335 | ok | 1.334 | 1.274-1.394 |
| Methyl Tert Butyl Ether | 3.19 | 3.61 | 0.884 | ok | 0.884 | 0.824-0.944 |
| Methylmethacrylate | 5.83 | 4.93 | 1.183 | ok | 1.182 | 1.122-1.242 |
| Naphthalene | 18.54 | 10.59 | 1.751 | ok | 1.751 | 1.691-1.811 |
| Nonane | 14.04 | 10.59 | 1.326 | ok | 1.326 | 1.266-1.386 |
| Octane | 9.60 | 4.93 | 1.947 | ok | 1.946 | 1.886-2.006 |
| Pentane | 2.63 | 3.61 | 0.729 | ok | 0.729 | 0.669-0.789 |
| n-Propylbenzene | 15.79 | 10.59 | 1.491 | ok | 1.491 | 1.431-1.551 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Styrene | 12.71 | 10.59 | 1.200 | ok | 1.200 | 1.140-1.260 |
| 1,1,1-Trichloroethane | 4.28 | 3.61 | 1.186 | ok | 1.185 | 1.125-1.245 |
| 1,1,1,2-Tetrachloroethane | 10.69 | 10.59 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.94 | 10.59 | 1.222 | ok | 1.221 | 1.161-1.281 |
| 1,1,2-Trichloroethane | 7.33 | 4.93 | 1.487 | ok | 1.486 | 1.426-1.546 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.59 | 1.746 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.23 | 10.59 | 1.249 | ok | 1.248 | 1.188-1.308 |
| 1,2,3-Trimethylbenzene | 17.16 | 10.59 | 1.620 | ok | 1.620 | 1.560-1.680 |
| 1,2,4-Trimethylbenzene | 16.78 | 10.59 | 1.585 | ok | 1.584 | 1.524-1.644 |
| 1,3,5-Trimethylbenzene | 16.31 | 10.59 | 1.540 | ok | 1.540 | 1.480-1.600 |
| 2,2,4-Trimethylpentane | 5.62 | 4.93 | 1.140 | ok | 1.139 | 1.079-1.199 |
| Tertiary Butyl Alcohol | 2.72 | 3.61 | 0.753 | ok | 0.753 | 0.693-0.813 |
| Tetrachloroethylene | 9.45 | 4.93 | 1.917 | ok | 1.917 | 1.857-1.977 |
| Tetrahydrofuran | 3.90 | 3.61 | 1.080 | ok | 1.083 | 1.023-1.143 |
| Toluene | 7.70 | 4.93 | 1.562 | ok | 1.562 | 1.502-1.622 |
| Trichloroethylene | 5.52 | 4.93 | 1.120 | ok | 1.119 | 1.059-1.179 |
| Trichlorofluoromethane | 2.52 | 3.61 | 0.698 | ok | 0.698 | 0.638-0.758 |
| Vinyl chloride | 2.04 | 3.61 | 0.565 | ok | 0.565 | 0.505-0.625 |
| Vinyl Acetate | 3.23 | 3.61 | 0.895 | ok | 0.895 | 0.835-0.955 |
| m,p-Xylene | 11.99 | 10.59 | 1.132 | ok | 1.132 | 1.072-1.192 |
| o-Xylene | 12.93 | 10.59 | 1.221 | ok | 1.220 | 1.160-1.280 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.61 | ok | 3.61 | 3.28-3.94 | 75390 | ok | 69048 | 41429-96667 |
| 1,4-Difluorobenzene | 4.93 | ok | 4.93 | 4.60-5.26 | 391613 | ok | 370656 | 222394-518918 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 360276 | ok | 336964 | 202178-471750 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.46 | 3.61 | 0.681 | ok | 0.682 | 0.622-0.742 |
| Acrolein | 2.42 | 3.61 | 0.670 | ok | 0.670 | 0.610-0.730 |
| Acrylonitrile | 2.61 | 3.61 | 0.723 | ok | 0.721 | 0.661-0.781 |
| Acetonitrile | 2.37 | 3.61 | 0.657 | ok | 0.657 | 0.597-0.717 |
| 1,3-Butadiene | 2.09 | 3.61 | 0.579 | ok | 0.578 | 0.518-0.638 |
| Benzene | 4.60 | 3.61 | 1.274 | ok | 1.274 | 1.214-1.334 |
| Bromobenzene | 14.33 | 10.59 | 1.353 | ok | 1.352 | 1.292-1.412 |
| Bromodichloromethane | 5.47 | 4.93 | 1.110 | ok | 1.108 | 1.048-1.168 |
| Bromoform | 11.80 | 10.59 | 1.114 | ok | 1.114 | 1.054-1.174 |
| Bromomethane | 2.19 | 3.61 | 0.607 | ok | 0.606 | 0.546-0.666 |
| Bromoethene | 2.38 | 3.61 | 0.659 | ok | 0.659 | 0.599-0.719 |
| n-Butane | 2.11 | 3.61 | 0.584 | ok | 0.584 | 0.524-0.644 |
| Benzyl Chloride | 16.86 | 10.59 | 1.592 | ok | 1.592 | 1.532-1.652 |
| n-Butylbenzene | 17.58 | 10.59 | 1.660 | ok | 1.660 | 1.600-1.720 |
| sec-Butylbenzene | 17.05 | 10.59 | 1.610 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.77 | 10.59 | 1.584 | ok | 1.583 | 1.523-1.643 |
| Carbon disulfide | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Chlorobenzene | 10.68 | 10.59 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.86 | 3.61 | 0.515 | ok | 0.517 | 0.457-0.577 |
| Chloroethane | 2.25 | 3.61 | 0.623 | ok | 0.623 | 0.563-0.683 |
| Chlorotrifluoroethene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Chloroform | 3.69 | 3.61 | 1.022 | ok | 1.021 | 0.961-1.081 |
| Chloromethane | 1.96 | 3.61 | 0.543 | ok | 0.542 | 0.482-0.602 |
| 3-Chloropropene | 2.79 | 3.61 | 0.773 | ok | 0.773 | 0.713-0.833 |
| 2-Chlorotoluene | 15.46 | 10.59 | 1.460 | ok | 1.459 | 1.399-1.519 |
| Carbon tetrachloride | 4.71 | 3.61 | 1.305 | ok | 1.305 | 1.245-1.365 |
| Cyclohexane | 4.81 | 4.93 | 0.976 | ok | 0.976 | 0.916-1.036 |
| 1,1-Dichloroethane | 3.16 | 3.61 | 0.875 | ok | 0.875 | 0.815-0.935 |
| 1,1-Dichloroethylene | 2.71 | 3.61 | 0.751 | ok | 0.751 | 0.691-0.811 |
| 1,2-Dibromoethane (EDB) | 8.60 | 4.93 | 1.744 | ok | 1.743 | 1.683-1.803 |
| 1,2-Dichloroethane | 4.11 | 3.61 | 1.139 | ok | 1.139 | 1.079-1.199 |
| 1,2-Dichloropropane | 5.28 | 4.93 | 1.071 | ok | 1.071 | 1.011-1.131 |
| 1,3-Dichloropropane | 7.77 | 4.93 | 1.576 | ok | 1.574 | 1.514-1.634 |
| 1,4-Dioxane | 5.53 | 4.93 | 1.122 | ok | 1.123 | 1.063-1.183 |
| Dichlorodifluoromethane | 1.90 | 3.61 | 0.526 | ok | 0.526 | 0.466-0.586 |
| Dichlorofluoromethane | 2.28 | 3.61 | 0.632 | ok | 0.633 | 0.573-0.693 |
| Dibromochloromethane | 8.25 | 4.93 | 1.673 | ok | 1.671 | 1.611-1.731 |
| Dibromomethane | 5.24 | 4.93 | 1.063 | ok | 1.063 | 1.003-1.123 |
| trans-1,2-Dichloroethylene | 3.08 | 3.61 | 0.853 | ok | 0.853 | 0.793-0.913 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.53 | 3.61 | 0.978 | ok | 0.978 | 0.918-1.038 |
| cis-1,3-Dichloropropene | 6.48 | 4.93 | 1.314 | ok | 1.313 | 1.253-1.373 |
| m-Dichlorobenzene | 16.84 | 10.59 | 1.590 | ok | 1.590 | 1.530-1.650 |
| o-Dichlorobenzene | 17.22 | 10.59 | 1.626 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.92 | 10.59 | 1.598 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.16 | 4.93 | 1.452 | ok | 1.452 | 1.392-1.512 |
| Di-Isopropyl ether | 3.67 | 3.61 | 1.017 | ok | 1.017 | 0.957-1.077 |
| 2,3-Dimethylpentane | 5.07 | 4.93 | 1.028 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.20 | 3.61 | 1.163 | ok | 1.162 | 1.102-1.222 |
| Ethanol | 2.29 | 3.61 | 0.634 | ok | 0.634 | 0.574-0.694 |
| Ethylbenzene | 11.56 | 10.59 | 1.092 | ok | 1.091 | 1.031-1.151 |
| Ethyl Acetate | 3.68 | 3.61 | 1.019 | ok | 1.018 | 0.958-1.078 |
| Ethyl Acrylate | 5.40 | 4.93 | 1.095 | ok | 1.095 | 1.035-1.155 |
| 4-Ethyltoluene | 16.15 | 10.59 | 1.525 | ok | 1.525 | 1.465-1.585 |
| Freon 113 | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 2.00 | 3.61 | 0.554 | ok | 0.553 | 0.493-0.613 |
| Freon 123 | 2.44 | 3.61 | 0.676 | ok | 0.674 | 0.614-0.734 |
| Freon 123A | 2.45 | 3.61 | 0.679 | ok | 0.679 | 0.619-0.739 |
| Freon 142B | 1.95 | 3.61 | 0.540 | ok | 0.540 | 0.480-0.600 |
| Freon 152A | 1.85 | 3.61 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Heptane | 5.94 | 4.93 | 1.205 | ok | 1.204 | 1.144-1.264 |
| Hexachlorobutadiene | 18.80 | 10.59 | 1.775 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.75 | 10.59 | 1.676 | ok | 1.677 | 1.617-1.737 |
| Hexane | 3.67 | 3.61 | 1.017 | ok | 1.015 | 0.955-1.075 |
| 2-Hexanone | 8.27 | 4.93 | 1.677 | ok | 1.678 | 1.618-1.738 |
| Iodomethane | 2.69 | 3.61 | 0.745 | ok | 0.745 | 0.685-0.805 |
| Isopropylbenzene | 14.45 | 10.59 | 1.364 | ok | 1.364 | 1.304-1.424 |
| Isopropyl Alcohol | 2.53 | 3.61 | 0.701 | ok | 0.702 | 0.642-0.762 |
| p-Isopropyltoluene | 17.23 | 10.59 | 1.627 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.75 | 3.61 | 0.762 | ok | 0.762 | 0.702-0.822 |
| Methyl ethyl ketone | 3.33 | 3.61 | 0.922 | ok | 0.923 | 0.863-0.983 |
| Methyl Isobutyl Ketone | 6.58 | 4.93 | 1.335 | ok | 1.334 | 1.274-1.394 |
| Methyl Tert Butyl Ether | 3.19 | 3.61 | 0.884 | ok | 0.884 | 0.824-0.944 |
| Methylmethacrylate | 5.83 | 4.93 | 1.183 | ok | 1.182 | 1.122-1.242 |
| Naphthalene | 18.54 | 10.59 | 1.751 | ok | 1.751 | 1.691-1.811 |
| Nonane | 14.05 | 10.59 | 1.327 | ok | 1.326 | 1.266-1.386 |
| Octane | 9.60 | 4.93 | 1.947 | ok | 1.946 | 1.886-2.006 |
| Pentane | 2.63 | 3.61 | 0.729 | ok | 0.729 | 0.669-0.789 |
| n-Propylbenzene | 15.79 | 10.59 | 1.491 | ok | 1.491 | 1.431-1.551 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Styrene | 12.72 | 10.59 | 1.201 | ok | 1.200 | 1.140-1.260 |
| 1,1,1-Trichloroethane | 4.28 | 3.61 | 1.186 | ok | 1.185 | 1.125-1.245 |
| 1,1,1,2-Tetrachloroethane | 10.69 | 10.59 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.95 | 10.59 | 1.223 | ok | 1.221 | 1.161-1.281 |
| 1,1,2-Trichloroethane | 7.33 | 4.93 | 1.487 | ok | 1.486 | 1.426-1.546 |
| 1,2,4-Trichlorobenzene | 18.50 | 10.59 | 1.747 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.23 | 10.59 | 1.249 | ok | 1.248 | 1.188-1.308 |
| 1,2,3-Trimethylbenzene | 17.16 | 10.59 | 1.620 | ok | 1.620 | 1.560-1.680 |
| 1,2,4-Trimethylbenzene | 16.78 | 10.59 | 1.585 | ok | 1.584 | 1.524-1.644 |
| 1,3,5-Trimethylbenzene | 16.31 | 10.59 | 1.540 | ok | 1.540 | 1.480-1.600 |
| 2,2,4-Trimethylpentane | 5.62 | 4.93 | 1.140 | ok | 1.139 | 1.079-1.199 |
| Tertiary Butyl Alcohol | 2.72 | 3.61 | 0.753 | ok | 0.753 | 0.693-0.813 |
| Tetrachloroethylene | 9.45 | 4.93 | 1.917 | ok | 1.917 | 1.857-1.977 |
| Tetrahydrofuran | 3.90 | 3.61 | 1.080 | ok | 1.083 | 1.023-1.143 |
| Toluene | 7.70 | 4.93 | 1.562 | ok | 1.562 | 1.502-1.622 |
| Trichloroethylene | 5.52 | 4.93 | 1.120 | ok | 1.119 | 1.059-1.179 |
| Trichlorofluoromethane | 2.52 | 3.61 | 0.698 | ok | 0.698 | 0.638-0.758 |
| Vinyl chloride | 2.04 | 3.61 | 0.565 | ok | 0.565 | 0.505-0.625 |
| Vinyl Acetate | 3.23 | 3.61 | 0.895 | ok | 0.895 | 0.835-0.955 |
| m,p-Xylene | 12.00 | 10.59 | 1.133 | ok | 1.132 | 1.072-1.192 |
| o-Xylene | 12.94 | 10.59 | 1.222 | ok | 1.220 | 1.160-1.280 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.61 | ok | 3.61 | 3.28-3.94 | 77394 | ok | 69048 | 41429-96667 |
| 1,4-Difluorobenzene | 4.93 | ok | 4.93 | 4.60-5.26 | 400362 | ok | 370656 | 222394-518918 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 371357 | ok | 336964 | 202178-471750 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Benzene | 4.44 | 3.41 | 1.302 | ok | 1.301 | 1.241-1.361 |
| Bromobenzene | 14.38 | 10.60 | 1.357 | ok | 1.357 | 1.297-1.417 |
| Bromodichloromethane | 5.35 | 4.79 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromoform | 11.84 | 10.60 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.97 | 3.41 | 0.578 | ok | 0.577 | 0.517-0.637 |
| Bromoethene | 2.12 | 3.41 | 0.622 | ok | 0.621 | 0.561-0.681 |
| n-Butane | 1.91 | 3.41 | 0.560 | ok | 0.560 | 0.500-0.620 |
| Benzyl Chloride | 16.88 | 10.60 | 1.592 | ok | 1.593 | 1.533-1.653 |
| n-Butylbenzene | 17.60 | 10.60 | 1.660 | ok | 1.659 | 1.599-1.719 |
| sec-Butylbenzene | 17.07 | 10.60 | 1.610 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.80 | 10.60 | 1.585 | ok | 1.584 | 1.524-1.644 |
| Carbon disulfide | 2.59 | 3.41 | 0.760 | ok | 0.759 | 0.699-0.819 |
| Chlorobenzene | 10.69 | 10.60 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chloroethane | 2.02 | 3.41 | 0.592 | ok | 0.592 | 0.532-0.652 |
| Chloroform | 3.50 | 3.41 | 1.026 | ok | 1.025 | 0.965-1.085 |
| 3-Chloropropene | 2.54 | 3.41 | 0.745 | ok | 0.742 | 0.682-0.802 |
| Carbon tetrachloride | 4.56 | 3.41 | 1.337 | ok | 1.337 | 1.277-1.397 |
| Cyclohexane | 4.66 | 4.79 | 0.973 | ok | 0.974 | 0.914-1.034 |
| 1,1-Dichloroethane | 2.93 | 3.41 | 0.859 | ok | 0.858 | 0.798-0.918 |
| 1,1-Dichloroethylene | 2.45 | 3.41 | 0.718 | ok | 0.717 | 0.657-0.777 |
| 1,2-Dibromoethane (EDB) | 8.56 | 4.79 | 1.787 | ok | 1.789 | 1.729-1.849 |
| 1,2-Dichloroethane | 3.94 | 3.41 | 1.155 | ok | 1.154 | 1.094-1.214 |
| 1,3-Dichloropropane | 7.70 | 4.79 | 1.608 | ok | 1.611 | 1.551-1.671 |
| Dichlorofluoromethane | 2.05 | 3.41 | 0.601 | ok | 0.601 | 0.541-0.661 |
| Dibromochloromethane | 8.22 | 4.79 | 1.716 | ok | 1.715 | 1.655-1.775 |
| Dibromomethane | 5.12 | 4.79 | 1.069 | ok | 1.068 | 1.008-1.128 |
| trans-1,2-Dichloroethylene | 2.84 | 3.41 | 0.833 | ok | 0.834 | 0.774-0.894 |
| cis-1,3-Dichloropropene | 6.39 | 4.79 | 1.334 | ok | 1.335 | 1.275-1.395 |
| m-Dichlorobenzene | 16.87 | 10.60 | 1.592 | ok | 1.591 | 1.531-1.651 |
| o-Dichlorobenzene | 17.24 | 10.60 | 1.626 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.95 | 10.60 | 1.599 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.10 | 4.79 | 1.482 | ok | 1.484 | 1.424-1.544 |
| 2,4-Dimethylpentane | 4.02 | 3.41 | 1.179 | ok | 1.178 | 1.118-1.238 |
| Ethylbenzene | 11.59 | 10.60 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acrylate | 5.30 | 4.79 | 1.106 | ok | 1.104 | 1.044-1.164 |
| 4-Ethyltoluene | 16.20 | 10.60 | 1.528 | ok | 1.528 | 1.468-1.588 |
| Freon 113 | 2.59 | 3.41 | 0.760 | ok | 0.759 | 0.699-0.819 |
| Freon 114 | 1.83 | 3.41 | 0.537 | ok | 0.536 | 0.476-0.596 |
| Freon 123 | 2.16 | 3.41 | 0.633 | ok | 0.633 | 0.573-0.693 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Freon 123A | 2.18 | 3.41 | 0.639 | ok | 0.639 | 0.579-0.699 |
| Freon 142B | 1.80 | 3.41 | 0.528 | ok | 0.526 | 0.466-0.586 |
| Heptane | 5.83 | 4.79 | 1.217 | ok | 1.218 | 1.158-1.278 |
| Hexachlorobutadiene | 18.81 | 10.60 | 1.775 | ok | 1.774 | 1.714-1.834 |
| Hexachloroethane | 17.77 | 10.60 | 1.676 | ok | 1.676 | 1.616-1.736 |
| Hexane | 3.47 | 3.41 | 1.018 | ok | 1.017 | 0.957-1.077 |
| Iodomethane | 2.42 | 3.41 | 0.710 | ok | 0.709 | 0.649-0.769 |
| Isopropylbenzene | 14.51 | 10.60 | 1.369 | ok | 1.369 | 1.309-1.429 |
| p-Isopropyltoluene | 17.25 | 10.60 | 1.627 | ok | 1.627 | 1.567-1.687 |
| Methyl Tert Butyl Ether | 2.97 | 3.41 | 0.871 | ok | 0.870 | 0.810-0.930 |
| Naphthalene | 18.56 | 10.60 | 1.751 | ok | 1.750 | 1.690-1.810 |
| Octane | 9.58 | 4.79 | 2.000 | ok | 2.002 | 1.942-2.062 |
| Pentane | 2.35 | 3.41 | 0.689 | ok | 0.691 | 0.631-0.751 |
| Styrene | 12.76 | 10.60 | 1.204 | ok | 1.203 | 1.143-1.263 |
| 1,1,1-Trichloroethane | 4.11 | 3.41 | 1.205 | ok | 1.204 | 1.144-1.264 |
| 1,1,1,2-Tetrachloroethane | 10.70 | 10.60 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.98 | 10.60 | 1.225 | ok | 1.226 | 1.166-1.286 |
| 1,1,2-Trichloroethane | 7.27 | 4.79 | 1.518 | ok | 1.519 | 1.459-1.579 |
| 1,2,4-Trichlorobenzene | 18.51 | 10.60 | 1.746 | ok | 1.745 | 1.685-1.805 |
| 1,2,3-Trichloropropane | 13.27 | 10.60 | 1.252 | ok | 1.253 | 1.193-1.313 |
| 1,2,3-Trimethylbenzene | 17.19 | 10.60 | 1.622 | ok | 1.621 | 1.561-1.681 |
| 1,2,4-Trimethylbenzene | 16.80 | 10.60 | 1.585 | ok | 1.585 | 1.525-1.645 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.60 | 1.542 | ok | 1.542 | 1.482-1.602 |
| 2,2,4-Trimethylpentane | 5.50 | 4.79 | 1.148 | ok | 1.148 | 1.088-1.208 |
| Tertiary Butyl Alcohol | 2.47 | 3.41 | 0.724 | ok | 0.722 | 0.662-0.782 |
| Tetrachloroethylene | 9.46 | 4.79 | 1.975 | ok | 1.972 | 1.912-2.032 |
| Toluene | 7.66 | 4.79 | 1.599 | ok | 1.598 | 1.538-1.658 |
| Trichloroethylene | 5.40 | 4.79 | 1.127 | ok | 1.129 | 1.069-1.189 |
| Trichlorofluoromethane | 2.25 | 3.41 | 0.660 | ok | 0.658 | 0.598-0.718 |
| Vinyl chloride | 1.86 | 3.41 | 0.545 | ok | 0.545 | 0.485-0.605 |
| m,p-Xylene | 11.99 | 10.60 | 1.131 | ok | 1.133 | 1.073-1.193 |
| o-Xylene | 12.97 | 10.60 | 1.224 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.41 | ok | 3.41 | 3.08-3.74 | 46617 | ok | 48021 | 28813-67229 |
| 1,4-Difluorobenzene | 4.79 | ok | 4.79 | 4.46-5.12 | 250125 | ok | 247020 | 148212-345828 |
| Chlorobenzene-D5 | 10.60 | ok | 10.60 | 10.27-10.93 | 220535 | ok | 217916 | 130750-305082 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acrolein | 2.15 | 3.41 | 0.630 | ok | 0.630 | 0.570-0.690 |
| Acrylonitrile | 2.33 | 3.41 | 0.683 | ok | 0.683 | 0.623-0.743 |
| Acetonitrile | 2.12 | 3.41 | 0.622 | ok | 0.619 | 0.559-0.679 |
| Benzene | 4.44 | 3.41 | 1.302 | ok | 1.301 | 1.241-1.361 |
| Bromobenzene | 14.38 | 10.60 | 1.357 | ok | 1.357 | 1.297-1.417 |
| Bromodichloromethane | 5.35 | 4.79 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromoform | 11.84 | 10.60 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.97 | 3.41 | 0.578 | ok | 0.577 | 0.517-0.637 |
| Bromoethene | 2.12 | 3.41 | 0.622 | ok | 0.621 | 0.561-0.681 |
| n-Butane | 1.91 | 3.41 | 0.560 | ok | 0.560 | 0.500-0.620 |
| Benzyl Chloride | 16.89 | 10.60 | 1.593 | ok | 1.593 | 1.533-1.653 |
| n-Butylbenzene | 17.60 | 10.60 | 1.660 | ok | 1.659 | 1.599-1.719 |
| sec-Butylbenzene | 17.08 | 10.60 | 1.611 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.79 | 10.60 | 1.584 | ok | 1.584 | 1.524-1.644 |
| Carbon disulfide | 2.59 | 3.41 | 0.760 | ok | 0.759 | 0.699-0.819 |
| Chlorobenzene | 10.68 | 10.60 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.73 | 3.41 | 0.507 | ok | 0.507 | 0.447-0.567 |
| Chloroethane | 2.02 | 3.41 | 0.592 | ok | 0.592 | 0.532-0.652 |
| Chlorotrifluoroethene | 1.74 | 3.41 | 0.510 | ok | 0.510 | 0.450-0.570 |
| Chloroform | 3.49 | 3.41 | 1.023 | ok | 1.025 | 0.965-1.085 |
| 3-Chloropropene | 2.53 | 3.41 | 0.742 | ok | 0.742 | 0.682-0.802 |
| 2-Chlorotoluene | 15.54 | 10.60 | 1.466 | ok | 1.465 | 1.405-1.525 |
| Carbon tetrachloride | 4.56 | 3.41 | 1.337 | ok | 1.337 | 1.277-1.397 |
| Cyclohexane | 4.66 | 4.79 | 0.973 | ok | 0.974 | 0.914-1.034 |
| 1,1-Dichloroethane | 2.93 | 3.41 | 0.859 | ok | 0.858 | 0.798-0.918 |
| 1,1-Dichloroethylene | 2.44 | 3.41 | 0.716 | ok | 0.717 | 0.657-0.777 |
| 1,2-Dibromoethane (EDB) | 8.57 | 4.79 | 1.789 | ok | 1.789 | 1.729-1.849 |
| 1,2-Dichloroethane | 3.94 | 3.41 | 1.155 | ok | 1.154 | 1.094-1.214 |
| 1,2-Dichloropropane | 5.15 | 4.79 | 1.075 | ok | 1.077 | 1.017-1.137 |
| 1,3-Dichloropropane | 7.72 | 4.79 | 1.612 | ok | 1.611 | 1.551-1.671 |
| 1,4-Dioxane | 5.49 | 4.79 | 1.146 | ok | 1.136 | 1.076-1.196 |
| Dichlorodifluoromethane | 1.76 | 3.41 | 0.516 | ok | 0.516 | 0.456-0.576 |
| Dichlorofluoromethane | 2.05 | 3.41 | 0.601 | ok | 0.601 | 0.541-0.661 |
| Dibromochloromethane | 8.21 | 4.79 | 1.714 | ok | 1.715 | 1.655-1.775 |
| Dibromomethane | 5.11 | 4.79 | 1.067 | ok | 1.068 | 1.008-1.128 |
| trans-1,2-Dichloroethylene | 2.84 | 3.41 | 0.833 | ok | 0.834 | 0.774-0.894 |
| cis-1,2-Dichloroethylene | 3.33 | 3.41 | 0.977 | ok | 0.976 | 0.916-1.036 |
| cis-1,3-Dichloropropene | 6.39 | 4.79 | 1.334 | ok | 1.335 | 1.275-1.395 |
| m-Dichlorobenzene | 16.87 | 10.60 | 1.592 | ok | 1.591 | 1.531-1.651 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| o-Dichlorobenzene | 17.24 | 10.60 | 1.626 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.95 | 10.60 | 1.599 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.10 | 4.79 | 1.482 | ok | 1.484 | 1.424-1.544 |
| Di-Isopropyl ether | 3.48 | 3.41 | 1.021 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.94 | 4.79 | 1.031 | ok | 1.031 | 0.971-1.091 |
| 2,4-Dimethylpentane | 4.02 | 3.41 | 1.179 | ok | 1.178 | 1.118-1.238 |
| Ethylbenzene | 11.60 | 10.60 | 1.094 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.48 | 3.41 | 1.021 | ok | 1.020 | 0.960-1.080 |
| Ethyl Acrylate | 5.29 | 4.79 | 1.104 | ok | 1.104 | 1.044-1.164 |
| 4-Ethyltoluene | 16.21 | 10.60 | 1.529 | ok | 1.528 | 1.468-1.588 |
| Freon 113 | 2.59 | 3.41 | 0.760 | ok | 0.759 | 0.699-0.819 |
| Freon 114 | 1.83 | 3.41 | 0.537 | ok | 0.536 | 0.476-0.596 |
| Freon 123 | 2.16 | 3.41 | 0.633 | ok | 0.633 | 0.573-0.693 |
| Freon 123A | 2.18 | 3.41 | 0.639 | ok | 0.639 | 0.579-0.699 |
| Freon 142B | 1.79 | 3.41 | 0.525 | ok | 0.526 | 0.466-0.586 |
| Freon 152A | 1.72 | 3.41 | 0.504 | ok | 0.504 | 0.444-0.564 |
| Heptane | 5.83 | 4.79 | 1.217 | ok | 1.218 | 1.158-1.278 |
| Hexachlorobutadiene | 18.81 | 10.60 | 1.775 | ok | 1.774 | 1.714-1.834 |
| Hexachloroethane | 17.78 | 10.60 | 1.677 | ok | 1.676 | 1.616-1.736 |
| Hexane | 3.47 | 3.41 | 1.018 | ok | 1.017 | 0.957-1.077 |
| Iodomethane | 2.42 | 3.41 | 0.710 | ok | 0.709 | 0.649-0.769 |
| Isopropylbenzene | 14.51 | 10.60 | 1.369 | ok | 1.369 | 1.309-1.429 |
| p-Isopropyltoluene | 17.25 | 10.60 | 1.627 | ok | 1.627 | 1.567-1.687 |
| Methyl ethyl ketone | 3.12 | 3.41 | 0.915 | ok | 0.914 | 0.854-0.974 |
| Methyl Isobutyl Ketone | 6.52 | 4.79 | 1.361 | ok | 1.359 | 1.299-1.419 |
| Methyl Tert Butyl Ether | 2.97 | 3.41 | 0.871 | ok | 0.870 | 0.810-0.930 |
| Methylmethacrylate | 5.73 | 4.79 | 1.196 | ok | 1.196 | 1.136-1.256 |
| Naphthalene | 18.56 | 10.60 | 1.751 | ok | 1.750 | 1.690-1.810 |
| Nonane | 14.09 | 10.60 | 1.329 | ok | 1.330 | 1.270-1.390 |
| Octane | 9.59 | 4.79 | 2.002 | ok | 2.002 | 1.942-2.062 |
| n-Propylbenzene | 15.87 | 10.60 | 1.497 | ok | 1.497 | 1.437-1.557 |
| Propylene | 1.74 | 3.41 | 0.510 | ok | 0.510 | 0.450-0.570 |
| Styrene | 12.75 | 10.60 | 1.203 | ok | 1.203 | 1.143-1.263 |
| 1,1,1-Trichloroethane | 4.10 | 3.41 | 1.202 | ok | 1.204 | 1.144-1.264 |
| 1,1,1,2-Tetrachloroethane | 10.69 | 10.60 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.00 | 10.60 | 1.226 | ok | 1.226 | 1.166-1.286 |
| 1,1,2-Trichloroethane | 7.28 | 4.79 | 1.520 | ok | 1.519 | 1.459-1.579 |
| 1,2,4-Trichlorobenzene | 18.50 | 10.60 | 1.745 | ok | 1.745 | 1.685-1.805 |
| 1,2,3-Trichloropropane | 13.29 | 10.60 | 1.254 | ok | 1.253 | 1.193-1.313 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| 1,2,3-Trimethylbenzene | 17.19 | 10.60 | 1.622 | ok | 1.621 | 1.561-1.681 |
| 1,2,4-Trimethylbenzene | 16.81 | 10.60 | 1.586 | ok | 1.585 | 1.525-1.645 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.60 | 1.542 | ok | 1.542 | 1.482-1.602 |
| 2,2,4-Trimethylpentane | 5.50 | 4.79 | 1.148 | ok | 1.148 | 1.088-1.208 |
| Tertiary Butyl Alcohol | 2.47 | 3.41 | 0.724 | ok | 0.722 | 0.662-0.782 |
| Tetrachloroethylene | 9.45 | 4.79 | 1.973 | ok | 1.972 | 1.912-2.032 |
| Tetrahydrofuran | 3.75 | 3.41 | 1.100 | ok | 1.093 | 1.033-1.153 |
| Toluene | 7.65 | 4.79 | 1.597 | ok | 1.598 | 1.538-1.658 |
| Trichloroethylene | 5.40 | 4.79 | 1.127 | ok | 1.129 | 1.069-1.189 |
| Trichlorofluoromethane | 2.24 | 3.41 | 0.657 | ok | 0.658 | 0.598-0.718 |
| Vinyl chloride | 1.86 | 3.41 | 0.545 | ok | 0.545 | 0.485-0.605 |
| m,p-Xylene | 11.98 | 10.60 | 1.130 | ok | 1.133 | 1.073-1.193 |
| o-Xylene | 12.97 | 10.60 | 1.224 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.41 | ok | 3.41 | 3.08-3.74 | 45139 | ok | 48021 | 28813-67229 |
| 1,4-Difluorobenzene | 4.79 | ok | 4.79 | 4.46-5.12 | 243010 | ok | 247020 | 148212-345828 |
| Chlorobenzene-D5 | 10.60 | ok | 10.60 | 10.27-10.93 | 215313 | ok | 217916 | 130750-305082 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.19 | 3.41 | 0.642 | ok | 0.642 | 0.582-0.702 |
| Acrolein | 2.15 | 3.41 | 0.630 | ok | 0.630 | 0.570-0.690 |
| Acrylonitrile | 2.33 | 3.41 | 0.683 | ok | 0.683 | 0.623-0.743 |
| Acetonitrile | 2.11 | 3.41 | 0.619 | ok | 0.619 | 0.559-0.679 |
| 1,3-Butadiene | 1.90 | 3.41 | 0.557 | ok | 0.556 | 0.496-0.616 |
| Benzene | 4.44 | 3.41 | 1.302 | ok | 1.301 | 1.241-1.361 |
| Bromobenzene | 14.38 | 10.60 | 1.357 | ok | 1.357 | 1.297-1.417 |
| Bromodichloromethane | 5.34 | 4.79 | 1.115 | ok | 1.117 | 1.057-1.177 |
| Bromoform | 11.84 | 10.60 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.97 | 3.41 | 0.578 | ok | 0.577 | 0.517-0.637 |
| Bromoethene | 2.12 | 3.41 | 0.622 | ok | 0.621 | 0.561-0.681 |
| n-Butane | 1.91 | 3.41 | 0.560 | ok | 0.560 | 0.500-0.620 |
| Benzyl Chloride | 16.89 | 10.60 | 1.593 | ok | 1.593 | 1.533-1.653 |
| n-Butylbenzene | 17.60 | 10.60 | 1.660 | ok | 1.659 | 1.599-1.719 |
| sec-Butylbenzene | 17.08 | 10.60 | 1.611 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.80 | 10.60 | 1.585 | ok | 1.584 | 1.524-1.644 |
| Carbon disulfide | 2.59 | 3.41 | 0.760 | ok | 0.759 | 0.699-0.819 |
| Chlorobenzene | 10.68 | 10.60 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.73 | 3.41 | 0.507 | ok | 0.507 | 0.447-0.567 |
| Chloroethane | 2.02 | 3.41 | 0.592 | ok | 0.592 | 0.532-0.652 |
| Chlorotrifluoroethene | 1.74 | 3.41 | 0.510 | ok | 0.510 | 0.450-0.570 |
| Chloroform | 3.49 | 3.41 | 1.023 | ok | 1.025 | 0.965-1.085 |
| Chloromethane | 1.80 | 3.41 | 0.528 | ok | 0.527 | 0.467-0.587 |
| 3-Chloropropene | 2.53 | 3.41 | 0.742 | ok | 0.742 | 0.682-0.802 |
| 2-Chlorotoluene | 15.54 | 10.60 | 1.466 | ok | 1.465 | 1.405-1.525 |
| Carbon tetrachloride | 4.56 | 3.41 | 1.337 | ok | 1.337 | 1.277-1.397 |
| Cyclohexane | 4.67 | 4.79 | 0.975 | ok | 0.974 | 0.914-1.034 |
| 1,1-Dichloroethane | 2.93 | 3.41 | 0.859 | ok | 0.858 | 0.798-0.918 |
| 1,1-Dichloroethylene | 2.45 | 3.41 | 0.718 | ok | 0.717 | 0.657-0.777 |
| 1,2-Dibromoethane (EDB) | 8.57 | 4.79 | 1.789 | ok | 1.789 | 1.729-1.849 |
| 1,2-Dichloroethane | 3.94 | 3.41 | 1.155 | ok | 1.154 | 1.094-1.214 |
| 1,2-Dichloropropane | 5.15 | 4.79 | 1.075 | ok | 1.077 | 1.017-1.137 |
| 1,3-Dichloropropane | 7.71 | 4.79 | 1.610 | ok | 1.611 | 1.551-1.671 |
| 1,4-Dioxane | 5.48 | 4.79 | 1.144 | ok | 1.136 | 1.076-1.196 |
| Dichlorodifluoromethane | 1.76 | 3.41 | 0.516 | ok | 0.516 | 0.456-0.576 |
| Dichlorofluoromethane | 2.05 | 3.41 | 0.601 | ok | 0.601 | 0.541-0.661 |
| Dibromochloromethane | 8.21 | 4.79 | 1.714 | ok | 1.715 | 1.655-1.775 |
| Dibromomethane | 5.11 | 4.79 | 1.067 | ok | 1.068 | 1.008-1.128 |
| trans-1,2-Dichloroethylene | 2.85 | 3.41 | 0.836 | ok | 0.834 | 0.774-0.894 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.33 | 3.41 | 0.977 | ok | 0.976 | 0.916-1.036 |
| cis-1,3-Dichloropropene | 6.39 | 4.79 | 1.334 | ok | 1.335 | 1.275-1.395 |
| m-Dichlorobenzene | 16.87 | 10.60 | 1.592 | ok | 1.591 | 1.531-1.651 |
| o-Dichlorobenzene | 17.24 | 10.60 | 1.626 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.95 | 10.60 | 1.599 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.11 | 4.79 | 1.484 | ok | 1.484 | 1.424-1.544 |
| Di-Isopropyl ether | 3.48 | 3.41 | 1.021 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.94 | 4.79 | 1.031 | ok | 1.031 | 0.971-1.091 |
| 2,4-Dimethylpentane | 4.02 | 3.41 | 1.179 | ok | 1.178 | 1.118-1.238 |
| Ethylbenzene | 11.59 | 10.60 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.49 | 3.41 | 1.023 | ok | 1.020 | 0.960-1.080 |
| Ethyl Acrylate | 5.29 | 4.79 | 1.104 | ok | 1.104 | 1.044-1.164 |
| 4-Ethyltoluene | 16.20 | 10.60 | 1.528 | ok | 1.528 | 1.468-1.588 |
| Freon 113 | 2.59 | 3.41 | 0.760 | ok | 0.759 | 0.699-0.819 |
| Freon 114 | 1.83 | 3.41 | 0.537 | ok | 0.536 | 0.476-0.596 |
| Freon 123 | 2.16 | 3.41 | 0.633 | ok | 0.633 | 0.573-0.693 |
| Freon 123A | 2.18 | 3.41 | 0.639 | ok | 0.639 | 0.579-0.699 |
| Freon 142B | 1.79 | 3.41 | 0.525 | ok | 0.526 | 0.466-0.586 |
| Freon 152A | 1.72 | 3.41 | 0.504 | ok | 0.504 | 0.444-0.564 |
| Heptane | 5.83 | 4.79 | 1.217 | ok | 1.218 | 1.158-1.278 |
| Hexachlorobutadiene | 18.81 | 10.60 | 1.775 | ok | 1.774 | 1.714-1.834 |
| Hexachloroethane | 17.77 | 10.60 | 1.676 | ok | 1.676 | 1.616-1.736 |
| Hexane | 3.47 | 3.41 | 1.018 | ok | 1.017 | 0.957-1.077 |
| 2-Hexanone | 8.26 | 4.79 | 1.724 | ok | 1.722 | 1.662-1.782 |
| Iodomethane | 2.42 | 3.41 | 0.710 | ok | 0.709 | 0.649-0.769 |
| Isopropylbenzene | 14.51 | 10.60 | 1.369 | ok | 1.369 | 1.309-1.429 |
| Isopropyl Alcohol | 2.27 | 3.41 | 0.666 | ok | 0.663 | 0.603-0.723 |
| p-Isopropyltoluene | 17.25 | 10.60 | 1.627 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.49 | 3.41 | 0.730 | ok | 0.729 | 0.669-0.789 |
| Methyl ethyl ketone | 3.12 | 3.41 | 0.915 | ok | 0.914 | 0.854-0.974 |
| Methyl Isobutyl Ketone | 6.52 | 4.79 | 1.361 | ok | 1.359 | 1.299-1.419 |
| Methyl Tert Butyl Ether | 2.97 | 3.41 | 0.871 | ok | 0.870 | 0.810-0.930 |
| Methylmethacrylate | 5.73 | 4.79 | 1.196 | ok | 1.196 | 1.136-1.256 |
| Naphthalene | 18.55 | 10.60 | 1.750 | ok | 1.750 | 1.690-1.810 |
| Nonane | 14.09 | 10.60 | 1.329 | ok | 1.330 | 1.270-1.390 |
| Octane | 9.59 | 4.79 | 2.002 | ok | 2.002 | 1.942-2.062 |
| Pentane | 2.36 | 3.41 | 0.692 | ok | 0.691 | 0.631-0.751 |
| n-Propylbenzene | 15.86 | 10.60 | 1.496 | ok | 1.497 | 1.437-1.557 |
| Propylene | 1.74 | 3.41 | 0.510 | ok | 0.510 | 0.450-0.570 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Styrene | 12.76 | 10.60 | 1.204 | ok | 1.203 | 1.143-1.263 |
| 1,1,1-Trichloroethane | 4.11 | 3.41 | 1.205 | ok | 1.204 | 1.144-1.264 |
| 1,1,1,2-Tetrachloroethane | 10.70 | 10.60 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.00 | 10.60 | 1.226 | ok | 1.226 | 1.166-1.286 |
| 1,1,2-Trichloroethane | 7.28 | 4.79 | 1.520 | ok | 1.519 | 1.459-1.579 |
| 1,2,4-Trichlorobenzene | 18.51 | 10.60 | 1.746 | ok | 1.745 | 1.685-1.805 |
| 1,2,3-Trichloropropane | 13.27 | 10.60 | 1.252 | ok | 1.253 | 1.193-1.313 |
| 1,2,3-Trimethylbenzene | 17.19 | 10.60 | 1.622 | ok | 1.621 | 1.561-1.681 |
| 1,2,4-Trimethylbenzene | 16.81 | 10.60 | 1.586 | ok | 1.585 | 1.525-1.645 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.60 | 1.542 | ok | 1.542 | 1.482-1.602 |
| 2,2,4-Trimethylpentane | 5.50 | 4.79 | 1.148 | ok | 1.148 | 1.088-1.208 |
| Tertiary Butyl Alcohol | 2.47 | 3.41 | 0.724 | ok | 0.722 | 0.662-0.782 |
| Tetrachloroethylene | 9.44 | 4.79 | 1.971 | ok | 1.972 | 1.912-2.032 |
| Tetrahydrofuran | 3.75 | 3.41 | 1.100 | ok | 1.093 | 1.033-1.153 |
| Toluene | 7.65 | 4.79 | 1.597 | ok | 1.598 | 1.538-1.658 |
| Trichloroethylene | 5.41 | 4.79 | 1.129 | ok | 1.129 | 1.069-1.189 |
| Trichlorofluoromethane | 2.25 | 3.41 | 0.660 | ok | 0.658 | 0.598-0.718 |
| Vinyl chloride | 1.86 | 3.41 | 0.545 | ok | 0.545 | 0.485-0.605 |
| Vinyl Acetate | 3.01 | 3.41 | 0.883 | ok | 0.882 | 0.822-0.942 |
| m,p-Xylene | 12.02 | 10.60 | 1.134 | ok | 1.133 | 1.073-1.193 |
| o-Xylene | 12.97 | 10.60 | 1.224 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.41 | ok | 3.41 | 3.08-3.74 | 46693 | ok | 48021 | 28813-67229 |
| 1,4-Difluorobenzene | 4.79 | ok | 4.79 | 4.46-5.12 | 249711 | ok | 247020 | 148212-345828 |
| Chlorobenzene-D5 | 10.60 | ok | 10.60 | 10.27-10.93 | 219091 | ok | 217916 | 130750-305082 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.20 | 3.42 | 0.643 | ok | 0.642 | 0.582-0.702 |
| Acrolein | 2.15 | 3.42 | 0.629 | ok | 0.630 | 0.570-0.690 |
| Acrylonitrile | 2.34 | 3.42 | 0.684 | ok | 0.683 | 0.623-0.743 |
| Acetonitrile | 2.12 | 3.42 | 0.620 | ok | 0.619 | 0.559-0.679 |
| 1,3-Butadiene | 1.90 | 3.42 | 0.556 | ok | 0.556 | 0.496-0.616 |
| Benzene | 4.44 | 3.42 | 1.298 | ok | 1.301 | 1.241-1.361 |
| Bromobenzene | 14.39 | 10.61 | 1.356 | ok | 1.357 | 1.297-1.417 |
| Bromodichloromethane | 5.35 | 4.79 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromoform | 11.85 | 10.61 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.98 | 3.42 | 0.579 | ok | 0.577 | 0.517-0.637 |
| Bromoethene | 2.12 | 3.42 | 0.620 | ok | 0.621 | 0.561-0.681 |
| n-Butane | 1.92 | 3.42 | 0.561 | ok | 0.560 | 0.500-0.620 |
| Benzyl Chloride | 16.89 | 10.61 | 1.592 | ok | 1.593 | 1.533-1.653 |
| n-Butylbenzene | 17.60 | 10.61 | 1.659 | ok | 1.659 | 1.599-1.719 |
| sec-Butylbenzene | 17.07 | 10.61 | 1.609 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.80 | 10.61 | 1.583 | ok | 1.584 | 1.524-1.644 |
| Carbon disulfide | 2.60 | 3.42 | 0.760 | ok | 0.759 | 0.699-0.819 |
| Chlorobenzene | 10.69 | 10.61 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.73 | 3.42 | 0.506 | ok | 0.507 | 0.447-0.567 |
| Chloroethane | 2.02 | 3.42 | 0.591 | ok | 0.592 | 0.532-0.652 |
| Chlorotrifluoroethene | 1.75 | 3.42 | 0.512 | ok | 0.510 | 0.450-0.570 |
| Chloroform | 3.50 | 3.42 | 1.023 | ok | 1.025 | 0.965-1.085 |
| Chloromethane | 1.80 | 3.42 | 0.526 | ok | 0.527 | 0.467-0.587 |
| 3-Chloropropene | 2.53 | 3.42 | 0.740 | ok | 0.742 | 0.682-0.802 |
| 2-Chlorotoluene | 15.54 | 10.61 | 1.465 | ok | 1.465 | 1.405-1.525 |
| Carbon tetrachloride | 4.57 | 3.42 | 1.336 | ok | 1.337 | 1.277-1.397 |
| Cyclohexane | 4.66 | 4.79 | 0.973 | ok | 0.974 | 0.914-1.034 |
| 1,1-Dichloroethane | 2.93 | 3.42 | 0.857 | ok | 0.858 | 0.798-0.918 |
| 1,1-Dichloroethylene | 2.45 | 3.42 | 0.716 | ok | 0.717 | 0.657-0.777 |
| 1,2-Dibromoethane (EDB) | 8.57 | 4.79 | 1.789 | ok | 1.789 | 1.729-1.849 |
| 1,2-Dichloroethane | 3.94 | 3.42 | 1.152 | ok | 1.154 | 1.094-1.214 |
| 1,2-Dichloropropane | 5.16 | 4.79 | 1.077 | ok | 1.077 | 1.017-1.137 |
| 1,3-Dichloropropane | 7.71 | 4.79 | 1.610 | ok | 1.611 | 1.551-1.671 |
| 1,4-Dioxane | 5.46 | 4.79 | 1.140 | ok | 1.136 | 1.076-1.196 |
| Dichlorodifluoromethane | 1.76 | 3.42 | 0.515 | ok | 0.516 | 0.456-0.576 |
| Dichlorofluoromethane | 2.05 | 3.42 | 0.599 | ok | 0.601 | 0.541-0.661 |
| Dibromochloromethane | 8.21 | 4.79 | 1.714 | ok | 1.715 | 1.655-1.775 |
| Dibromomethane | 5.12 | 4.79 | 1.069 | ok | 1.068 | 1.008-1.128 |
| trans-1,2-Dichloroethylene | 2.85 | 3.42 | 0.833 | ok | 0.834 | 0.774-0.894 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.34 | 3.42 | 0.977 | ok | 0.976 | 0.916-1.036 |
| cis-1,3-Dichloropropene | 6.39 | 4.79 | 1.334 | ok | 1.335 | 1.275-1.395 |
| m-Dichlorobenzene | 16.87 | 10.61 | 1.590 | ok | 1.591 | 1.531-1.651 |
| o-Dichlorobenzene | 17.24 | 10.61 | 1.625 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.95 | 10.61 | 1.598 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.11 | 4.79 | 1.484 | ok | 1.484 | 1.424-1.544 |
| Di-Isopropyl ether | 3.48 | 3.42 | 1.018 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.93 | 4.79 | 1.029 | ok | 1.031 | 0.971-1.091 |
| 2,4-Dimethylpentane | 4.03 | 3.42 | 1.178 | ok | 1.178 | 1.118-1.238 |
| Ethanol | 2.06 | 3.42 | 0.602 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.58 | 10.61 | 1.091 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.49 | 3.42 | 1.020 | ok | 1.020 | 0.960-1.080 |
| Ethyl Acrylate | 5.29 | 4.79 | 1.104 | ok | 1.104 | 1.044-1.164 |
| 4-Ethyltoluene | 16.21 | 10.61 | 1.528 | ok | 1.528 | 1.468-1.588 |
| Freon 113 | 2.60 | 3.42 | 0.760 | ok | 0.759 | 0.699-0.819 |
| Freon 114 | 1.83 | 3.42 | 0.535 | ok | 0.536 | 0.476-0.596 |
| Freon 123 | 2.17 | 3.42 | 0.635 | ok | 0.633 | 0.573-0.693 |
| Freon 123A | 2.18 | 3.42 | 0.637 | ok | 0.639 | 0.579-0.699 |
| Freon 142B | 1.80 | 3.42 | 0.526 | ok | 0.526 | 0.466-0.586 |
| Freon 152A | 1.72 | 3.42 | 0.503 | ok | 0.504 | 0.444-0.564 |
| Heptane | 5.83 | 4.79 | 1.217 | ok | 1.218 | 1.158-1.278 |
| Hexachlorobutadiene | 18.81 | 10.61 | 1.773 | ok | 1.774 | 1.714-1.834 |
| Hexachloroethane | 17.78 | 10.61 | 1.676 | ok | 1.676 | 1.616-1.736 |
| Hexane | 3.47 | 3.42 | 1.015 | ok | 1.017 | 0.957-1.077 |
| 2-Hexanone | 8.26 | 4.79 | 1.724 | ok | 1.722 | 1.662-1.782 |
| Iodomethane | 2.42 | 3.42 | 0.708 | ok | 0.709 | 0.649-0.769 |
| Isopropylbenzene | 14.51 | 10.61 | 1.368 | ok | 1.369 | 1.309-1.429 |
| Isopropyl Alcohol | 2.27 | 3.42 | 0.664 | ok | 0.663 | 0.603-0.723 |
| p-Isopropyltoluene | 17.25 | 10.61 | 1.626 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.49 | 3.42 | 0.728 | ok | 0.729 | 0.669-0.789 |
| Methyl ethyl ketone | 3.13 | 3.42 | 0.915 | ok | 0.914 | 0.854-0.974 |
| Methyl Isobutyl Ketone | 6.52 | 4.79 | 1.361 | ok | 1.359 | 1.299-1.419 |
| Methyl Tert Butyl Ether | 2.97 | 3.42 | 0.868 | ok | 0.870 | 0.810-0.930 |
| Methylmethacrylate | 5.73 | 4.79 | 1.196 | ok | 1.196 | 1.136-1.256 |
| Naphthalene | 18.56 | 10.61 | 1.749 | ok | 1.750 | 1.690-1.810 |
| Nonane | 14.10 | 10.61 | 1.329 | ok | 1.330 | 1.270-1.390 |
| Octane | 9.59 | 4.79 | 2.002 | ok | 2.002 | 1.942-2.062 |
| Pentane | 2.36 | 3.42 | 0.690 | ok | 0.691 | 0.631-0.751 |
| n-Propylbenzene | 15.87 | 10.61 | 1.496 | ok | 1.497 | 1.437-1.557 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.74 | 3.42 | 0.509 | ok | 0.510 | 0.450-0.570 |
| Styrene | 12.76 | 10.61 | 1.203 | ok | 1.203 | 1.143-1.263 |
| 1,1,1-Trichloroethane | 4.11 | 3.42 | 1.202 | ok | 1.204 | 1.144-1.264 |
| 1,1,1,2-Tetrachloroethane | 10.70 | 10.61 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.99 | 10.61 | 1.224 | ok | 1.226 | 1.166-1.286 |
| 1,1,2-Trichloroethane | 7.27 | 4.79 | 1.518 | ok | 1.519 | 1.459-1.579 |
| 1,2,4-Trichlorobenzene | 18.50 | 10.61 | 1.744 | ok | 1.745 | 1.685-1.805 |
| 1,2,3-Trichloropropane | 13.28 | 10.61 | 1.252 | ok | 1.253 | 1.193-1.313 |
| 1,2,3-Trimethylbenzene | 17.19 | 10.61 | 1.620 | ok | 1.621 | 1.561-1.681 |
| 1,2,4-Trimethylbenzene | 16.81 | 10.61 | 1.584 | ok | 1.585 | 1.525-1.645 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.61 | 1.541 | ok | 1.542 | 1.482-1.602 |
| 2,2,4-Trimethylpentane | 5.50 | 4.79 | 1.148 | ok | 1.148 | 1.088-1.208 |
| Tertiary Butyl Alcohol | 2.47 | 3.42 | 0.722 | ok | 0.722 | 0.662-0.782 |
| Tetrachloroethylene | 9.44 | 4.79 | 1.971 | ok | 1.972 | 1.912-2.032 |
| Tetrahydrofuran | 3.74 | 3.42 | 1.094 | ok | 1.093 | 1.033-1.153 |
| Toluene | 7.66 | 4.79 | 1.599 | ok | 1.598 | 1.538-1.658 |
| Trichloroethylene | 5.41 | 4.79 | 1.129 | ok | 1.129 | 1.069-1.189 |
| Trichlorofluoromethane | 2.25 | 3.42 | 0.658 | ok | 0.658 | 0.598-0.718 |
| Vinyl chloride | 1.87 | 3.42 | 0.547 | ok | 0.545 | 0.485-0.605 |
| Vinyl Acetate | 3.01 | 3.42 | 0.880 | ok | 0.882 | 0.822-0.942 |
| m,p-Xylene | 12.03 | 10.61 | 1.134 | ok | 1.133 | 1.073-1.193 |
| o-Xylene | 12.97 | 10.61 | 1.222 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.42 | ok | 3.41 | 3.08-3.74 | 44988 | ok | 48021 | 28813-67229 |
| 1,4-Difluorobenzene | 4.79 | ok | 4.79 | 4.46-5.12 | 244084 | ok | 247020 | 148212-345828 |
| Chlorobenzene-D5 | 10.61 | ok | 10.60 | 10.27-10.93 | 214178 | ok | 217916 | 130750-305082 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.19 | 3.41 | 0.642 | ok | 0.642 | 0.582-0.702 |
| Acrolein | 2.15 | 3.41 | 0.630 | ok | 0.630 | 0.570-0.690 |
| Acrylonitrile | 2.33 | 3.41 | 0.683 | ok | 0.683 | 0.623-0.743 |
| Acetonitrile | 2.11 | 3.41 | 0.619 | ok | 0.619 | 0.559-0.679 |
| 1,3-Butadiene | 1.90 | 3.41 | 0.557 | ok | 0.556 | 0.496-0.616 |
| Benzene | 4.44 | 3.41 | 1.302 | ok | 1.301 | 1.241-1.361 |
| Bromobenzene | 14.39 | 10.61 | 1.356 | ok | 1.357 | 1.297-1.417 |
| Bromodichloromethane | 5.35 | 4.79 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromoform | 11.84 | 10.61 | 1.116 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.97 | 3.41 | 0.578 | ok | 0.577 | 0.517-0.637 |
| Bromoethene | 2.12 | 3.41 | 0.622 | ok | 0.621 | 0.561-0.681 |
| n-Butane | 1.91 | 3.41 | 0.560 | ok | 0.560 | 0.500-0.620 |
| Benzyl Chloride | 16.89 | 10.61 | 1.592 | ok | 1.593 | 1.533-1.653 |
| n-Butylbenzene | 17.59 | 10.61 | 1.658 | ok | 1.659 | 1.599-1.719 |
| sec-Butylbenzene | 17.08 | 10.61 | 1.610 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.80 | 10.61 | 1.583 | ok | 1.584 | 1.524-1.644 |
| Carbon disulfide | 2.59 | 3.41 | 0.760 | ok | 0.759 | 0.699-0.819 |
| Chlorobenzene | 10.69 | 10.61 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.73 | 3.41 | 0.507 | ok | 0.507 | 0.447-0.567 |
| Chloroethane | 2.02 | 3.41 | 0.592 | ok | 0.592 | 0.532-0.652 |
| Chlorotrifluoroethene | 1.74 | 3.41 | 0.510 | ok | 0.510 | 0.450-0.570 |
| Chloroform | 3.50 | 3.41 | 1.026 | ok | 1.025 | 0.965-1.085 |
| Chloromethane | 1.80 | 3.41 | 0.528 | ok | 0.527 | 0.467-0.587 |
| 3-Chloropropene | 2.53 | 3.41 | 0.742 | ok | 0.742 | 0.682-0.802 |
| 2-Chlorotoluene | 15.53 | 10.61 | 1.464 | ok | 1.465 | 1.405-1.525 |
| Carbon tetrachloride | 4.56 | 3.41 | 1.337 | ok | 1.337 | 1.277-1.397 |
| Cyclohexane | 4.67 | 4.79 | 0.975 | ok | 0.974 | 0.914-1.034 |
| 1,1-Dichloroethane | 2.93 | 3.41 | 0.859 | ok | 0.858 | 0.798-0.918 |
| 1,1-Dichloroethylene | 2.45 | 3.41 | 0.718 | ok | 0.717 | 0.657-0.777 |
| 1,2-Dibromoethane (EDB) | 8.57 | 4.79 | 1.789 | ok | 1.789 | 1.729-1.849 |
| 1,2-Dichloroethane | 3.94 | 3.41 | 1.155 | ok | 1.154 | 1.094-1.214 |
| 1,2-Dichloropropane | 5.16 | 4.79 | 1.077 | ok | 1.077 | 1.017-1.137 |
| 1,3-Dichloropropane | 7.72 | 4.79 | 1.612 | ok | 1.611 | 1.551-1.671 |
| 1,4-Dioxane | 5.43 | 4.79 | 1.134 | ok | 1.136 | 1.076-1.196 |
| Dichlorodifluoromethane | 1.76 | 3.41 | 0.516 | ok | 0.516 | 0.456-0.576 |
| Dichlorofluoromethane | 2.05 | 3.41 | 0.601 | ok | 0.601 | 0.541-0.661 |
| Dibromochloromethane | 8.22 | 4.79 | 1.716 | ok | 1.715 | 1.655-1.775 |
| Dibromomethane | 5.12 | 4.79 | 1.069 | ok | 1.068 | 1.008-1.128 |
| trans-1,2-Dichloroethylene | 2.85 | 3.41 | 0.836 | ok | 0.834 | 0.774-0.894 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.33 | 3.41 | 0.977 | ok | 0.976 | 0.916-1.036 |
| cis-1,3-Dichloropropene | 6.39 | 4.79 | 1.334 | ok | 1.335 | 1.275-1.395 |
| m-Dichlorobenzene | 16.87 | 10.61 | 1.590 | ok | 1.591 | 1.531-1.651 |
| o-Dichlorobenzene | 17.24 | 10.61 | 1.625 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.95 | 10.61 | 1.598 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.11 | 4.79 | 1.484 | ok | 1.484 | 1.424-1.544 |
| Di-Isopropyl ether | 3.47 | 3.41 | 1.018 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.94 | 4.79 | 1.031 | ok | 1.031 | 0.971-1.091 |
| 2,4-Dimethylpentane | 4.02 | 3.41 | 1.179 | ok | 1.178 | 1.118-1.238 |
| Ethanol | 2.05 | 3.41 | 0.601 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.58 | 10.61 | 1.091 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.48 | 3.41 | 1.021 | ok | 1.020 | 0.960-1.080 |
| Ethyl Acrylate | 5.28 | 4.79 | 1.102 | ok | 1.104 | 1.044-1.164 |
| 4-Ethyltoluene | 16.21 | 10.61 | 1.528 | ok | 1.528 | 1.468-1.588 |
| Freon 113 | 2.59 | 3.41 | 0.760 | ok | 0.759 | 0.699-0.819 |
| Freon 114 | 1.83 | 3.41 | 0.537 | ok | 0.536 | 0.476-0.596 |
| Freon 123 | 2.16 | 3.41 | 0.633 | ok | 0.633 | 0.573-0.693 |
| Freon 123A | 2.18 | 3.41 | 0.639 | ok | 0.639 | 0.579-0.699 |
| Freon 142B | 1.80 | 3.41 | 0.528 | ok | 0.526 | 0.466-0.586 |
| Freon 152A | 1.72 | 3.41 | 0.504 | ok | 0.504 | 0.444-0.564 |
| Heptane | 5.83 | 4.79 | 1.217 | ok | 1.218 | 1.158-1.278 |
| Hexachlorobutadiene | 18.81 | 10.61 | 1.773 | ok | 1.774 | 1.714-1.834 |
| Hexachloroethane | 17.77 | 10.61 | 1.675 | ok | 1.676 | 1.616-1.736 |
| Hexane | 3.47 | 3.41 | 1.018 | ok | 1.017 | 0.957-1.077 |
| 2-Hexanone | 8.25 | 4.79 | 1.722 | ok | 1.722 | 1.662-1.782 |
| Iodomethane | 2.42 | 3.41 | 0.710 | ok | 0.709 | 0.649-0.769 |
| Isopropylbenzene | 14.51 | 10.61 | 1.368 | ok | 1.369 | 1.309-1.429 |
| Isopropyl Alcohol | 2.26 | 3.41 | 0.663 | ok | 0.663 | 0.603-0.723 |
| p-Isopropyltoluene | 17.25 | 10.61 | 1.626 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.49 | 3.41 | 0.730 | ok | 0.729 | 0.669-0.789 |
| Methyl ethyl ketone | 3.12 | 3.41 | 0.915 | ok | 0.914 | 0.854-0.974 |
| Methyl Isobutyl Ketone | 6.51 | 4.79 | 1.359 | ok | 1.359 | 1.299-1.419 |
| Methyl Tert Butyl Ether | 2.97 | 3.41 | 0.871 | ok | 0.870 | 0.810-0.930 |
| Methylmethacrylate | 5.73 | 4.79 | 1.196 | ok | 1.196 | 1.136-1.256 |
| Naphthalene | 18.55 | 10.61 | 1.748 | ok | 1.750 | 1.690-1.810 |
| Nonane | 14.10 | 10.61 | 1.329 | ok | 1.330 | 1.270-1.390 |
| Octane | 9.58 | 4.79 | 2.000 | ok | 2.002 | 1.942-2.062 |
| Pentane | 2.36 | 3.41 | 0.692 | ok | 0.691 | 0.631-0.751 |
| n-Propylbenzene | 15.87 | 10.61 | 1.496 | ok | 1.497 | 1.437-1.557 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.74 | 3.41 | 0.510 | ok | 0.510 | 0.450-0.570 |
| Styrene | 12.76 | 10.61 | 1.203 | ok | 1.203 | 1.143-1.263 |
| 1,1,1-Trichloroethane | 4.11 | 3.41 | 1.205 | ok | 1.204 | 1.144-1.264 |
| 1,1,1,2-Tetrachloroethane | 10.69 | 10.61 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.00 | 10.61 | 1.225 | ok | 1.226 | 1.166-1.286 |
| 1,1,2-Trichloroethane | 7.27 | 4.79 | 1.518 | ok | 1.519 | 1.459-1.579 |
| 1,2,4-Trichlorobenzene | 18.50 | 10.61 | 1.744 | ok | 1.745 | 1.685-1.805 |
| 1,2,3-Trichloropropane | 13.29 | 10.61 | 1.253 | ok | 1.253 | 1.193-1.313 |
| 1,2,3-Trimethylbenzene | 17.19 | 10.61 | 1.620 | ok | 1.621 | 1.561-1.681 |
| 1,2,4-Trimethylbenzene | 16.81 | 10.61 | 1.584 | ok | 1.585 | 1.525-1.645 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.61 | 1.541 | ok | 1.542 | 1.482-1.602 |
| 2,2,4-Trimethylpentane | 5.50 | 4.79 | 1.148 | ok | 1.148 | 1.088-1.208 |
| Tertiary Butyl Alcohol | 2.46 | 3.41 | 0.721 | ok | 0.722 | 0.662-0.782 |
| Tetrachloroethylene | 9.44 | 4.79 | 1.971 | ok | 1.972 | 1.912-2.032 |
| Tetrahydrofuran | 3.73 | 3.41 | 1.094 | ok | 1.093 | 1.033-1.153 |
| Toluene | 7.65 | 4.79 | 1.597 | ok | 1.598 | 1.538-1.658 |
| Trichloroethylene | 5.40 | 4.79 | 1.127 | ok | 1.129 | 1.069-1.189 |
| Trichlorofluoromethane | 2.25 | 3.41 | 0.660 | ok | 0.658 | 0.598-0.718 |
| Vinyl chloride | 1.86 | 3.41 | 0.545 | ok | 0.545 | 0.485-0.605 |
| Vinyl Acetate | 3.01 | 3.41 | 0.883 | ok | 0.882 | 0.822-0.942 |
| m,p-Xylene | 12.02 | 10.61 | 1.133 | ok | 1.133 | 1.073-1.193 |
| o-Xylene | 12.98 | 10.61 | 1.223 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.41 | ok | 3.41 | 3.08-3.74 | 44624 | ok | 48021 | 28813-67229 |
| 1,4-Difluorobenzene | 4.79 | ok | 4.79 | 4.46-5.12 | 241425 | ok | 247020 | 148212-345828 |
| Chlorobenzene-D5 | 10.61 | ok | 10.60 | 10.27-10.93 | 213770 | ok | 217916 | 130750-305082 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.19 | 3.42 | 0.640 | ok | 0.642 | 0.582-0.702 |
| Acrolein | 2.15 | 3.42 | 0.629 | ok | 0.630 | 0.570-0.690 |
| Acrylonitrile | 2.33 | 3.42 | 0.681 | ok | 0.683 | 0.623-0.743 |
| Acetonitrile | 2.11 | 3.42 | 0.617 | ok | 0.619 | 0.559-0.679 |
| 1,3-Butadiene | 1.90 | 3.42 | 0.556 | ok | 0.556 | 0.496-0.616 |
| Benzene | 4.44 | 3.42 | 1.298 | ok | 1.301 | 1.241-1.361 |
| Bromobenzene | 14.39 | 10.60 | 1.358 | ok | 1.357 | 1.297-1.417 |
| Bromodichloromethane | 5.35 | 4.79 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromoform | 11.85 | 10.60 | 1.118 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.97 | 3.42 | 0.576 | ok | 0.577 | 0.517-0.637 |
| Bromoethene | 2.12 | 3.42 | 0.620 | ok | 0.621 | 0.561-0.681 |
| n-Butane | 1.91 | 3.42 | 0.558 | ok | 0.560 | 0.500-0.620 |
| Benzyl Chloride | 16.89 | 10.60 | 1.593 | ok | 1.593 | 1.533-1.653 |
| n-Butylbenzene | 17.59 | 10.60 | 1.659 | ok | 1.659 | 1.599-1.719 |
| sec-Butylbenzene | 17.08 | 10.60 | 1.611 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.80 | 10.60 | 1.585 | ok | 1.584 | 1.524-1.644 |
| Carbon disulfide | 2.59 | 3.42 | 0.757 | ok | 0.759 | 0.699-0.819 |
| Chlorobenzene | 10.69 | 10.60 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.73 | 3.42 | 0.506 | ok | 0.507 | 0.447-0.567 |
| Chloroethane | 2.02 | 3.42 | 0.591 | ok | 0.592 | 0.532-0.652 |
| Chlorotrifluoroethene | 1.74 | 3.42 | 0.509 | ok | 0.510 | 0.450-0.570 |
| Chloroform | 3.50 | 3.42 | 1.023 | ok | 1.025 | 0.965-1.085 |
| Chloromethane | 1.80 | 3.42 | 0.526 | ok | 0.527 | 0.467-0.587 |
| 3-Chloropropene | 2.53 | 3.42 | 0.740 | ok | 0.742 | 0.682-0.802 |
| 2-Chlorotoluene | 15.54 | 10.60 | 1.466 | ok | 1.465 | 1.405-1.525 |
| Carbon tetrachloride | 4.57 | 3.42 | 1.336 | ok | 1.337 | 1.277-1.397 |
| Cyclohexane | 4.67 | 4.79 | 0.975 | ok | 0.974 | 0.914-1.034 |
| 1,1-Dichloroethane | 2.93 | 3.42 | 0.857 | ok | 0.858 | 0.798-0.918 |
| 1,1-Dichloroethylene | 2.45 | 3.42 | 0.716 | ok | 0.717 | 0.657-0.777 |
| 1,2-Dibromoethane (EDB) | 8.57 | 4.79 | 1.789 | ok | 1.789 | 1.729-1.849 |
| 1,2-Dichloroethane | 3.94 | 3.42 | 1.152 | ok | 1.154 | 1.094-1.214 |
| 1,2-Dichloropropane | 5.16 | 4.79 | 1.077 | ok | 1.077 | 1.017-1.137 |
| 1,3-Dichloropropane | 7.71 | 4.79 | 1.610 | ok | 1.611 | 1.551-1.671 |
| 1,4-Dioxane | 5.42 | 4.79 | 1.132 | ok | 1.136 | 1.076-1.196 |
| Dichlorodifluoromethane | 1.76 | 3.42 | 0.515 | ok | 0.516 | 0.456-0.576 |
| Dichlorofluoromethane | 2.05 | 3.42 | 0.599 | ok | 0.601 | 0.541-0.661 |
| Dibromochloromethane | 8.22 | 4.79 | 1.716 | ok | 1.715 | 1.655-1.775 |
| Dibromomethane | 5.12 | 4.79 | 1.069 | ok | 1.068 | 1.008-1.128 |
| trans-1,2-Dichloroethylene | 2.85 | 3.42 | 0.833 | ok | 0.834 | 0.774-0.894 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.33 | 3.42 | 0.974 | ok | 0.976 | 0.916-1.036 |
| cis-1,3-Dichloropropene | 6.40 | 4.79 | 1.336 | ok | 1.335 | 1.275-1.395 |
| m-Dichlorobenzene | 16.87 | 10.60 | 1.592 | ok | 1.591 | 1.531-1.651 |
| o-Dichlorobenzene | 17.24 | 10.60 | 1.626 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.95 | 10.60 | 1.599 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.10 | 4.79 | 1.482 | ok | 1.484 | 1.424-1.544 |
| Di-Isopropyl ether | 3.47 | 3.42 | 1.015 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.94 | 4.79 | 1.031 | ok | 1.031 | 0.971-1.091 |
| 2,4-Dimethylpentane | 4.02 | 3.42 | 1.175 | ok | 1.178 | 1.118-1.238 |
| Ethanol | 2.05 | 3.42 | 0.599 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.59 | 10.60 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.48 | 3.42 | 1.018 | ok | 1.020 | 0.960-1.080 |
| Ethyl Acrylate | 5.28 | 4.79 | 1.102 | ok | 1.104 | 1.044-1.164 |
| 4-Ethyltoluene | 16.21 | 10.60 | 1.529 | ok | 1.528 | 1.468-1.588 |
| Freon 113 | 2.59 | 3.42 | 0.757 | ok | 0.759 | 0.699-0.819 |
| Freon 114 | 1.83 | 3.42 | 0.535 | ok | 0.536 | 0.476-0.596 |
| Freon 123 | 2.16 | 3.42 | 0.632 | ok | 0.633 | 0.573-0.693 |
| Freon 123A | 2.18 | 3.42 | 0.637 | ok | 0.639 | 0.579-0.699 |
| Freon 142B | 1.80 | 3.42 | 0.526 | ok | 0.526 | 0.466-0.586 |
| Freon 152A | 1.72 | 3.42 | 0.503 | ok | 0.504 | 0.444-0.564 |
| Heptane | 5.83 | 4.79 | 1.217 | ok | 1.218 | 1.158-1.278 |
| Hexachlorobutadiene | 18.81 | 10.60 | 1.775 | ok | 1.774 | 1.714-1.834 |
| Hexachloroethane | 17.77 | 10.60 | 1.676 | ok | 1.676 | 1.616-1.736 |
| Hexane | 3.47 | 3.42 | 1.015 | ok | 1.017 | 0.957-1.077 |
| 2-Hexanone | 8.24 | 4.79 | 1.720 | ok | 1.722 | 1.662-1.782 |
| Iodomethane | 2.42 | 3.42 | 0.708 | ok | 0.709 | 0.649-0.769 |
| Isopropylbenzene | 14.51 | 10.60 | 1.369 | ok | 1.369 | 1.309-1.429 |
| Isopropyl Alcohol | 2.26 | 3.42 | 0.661 | ok | 0.663 | 0.603-0.723 |
| p-Isopropyltoluene | 17.25 | 10.60 | 1.627 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.49 | 3.42 | 0.728 | ok | 0.729 | 0.669-0.789 |
| Methyl ethyl ketone | 3.12 | 3.42 | 0.912 | ok | 0.914 | 0.854-0.974 |
| Methyl Isobutyl Ketone | 6.50 | 4.79 | 1.357 | ok | 1.359 | 1.299-1.419 |
| Methyl Tert Butyl Ether | 2.97 | 3.42 | 0.868 | ok | 0.870 | 0.810-0.930 |
| Methylmethacrylate | 5.73 | 4.79 | 1.196 | ok | 1.196 | 1.136-1.256 |
| Naphthalene | 18.55 | 10.60 | 1.750 | ok | 1.750 | 1.690-1.810 |
| Nonane | 14.10 | 10.60 | 1.330 | ok | 1.330 | 1.270-1.390 |
| Octane | 9.59 | 4.79 | 2.002 | ok | 2.002 | 1.942-2.062 |
| Pentane | 2.36 | 3.42 | 0.690 | ok | 0.691 | 0.631-0.751 |
| n-Propylbenzene | 15.87 | 10.60 | 1.497 | ok | 1.497 | 1.437-1.557 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.74 | 3.42 | 0.509 | ok | 0.510 | 0.450-0.570 |
| Styrene | 12.76 | 10.60 | 1.204 | ok | 1.203 | 1.143-1.263 |
| 1,1,1-Trichloroethane | 4.11 | 3.42 | 1.202 | ok | 1.204 | 1.144-1.264 |
| 1,1,1,2-Tetrachloroethane | 10.70 | 10.60 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.00 | 10.60 | 1.226 | ok | 1.226 | 1.166-1.286 |
| 1,1,2-Trichloroethane | 7.27 | 4.79 | 1.518 | ok | 1.519 | 1.459-1.579 |
| 1,2,4-Trichlorobenzene | 18.50 | 10.60 | 1.745 | ok | 1.745 | 1.685-1.805 |
| 1,2,3-Trichloropropane | 13.28 | 10.60 | 1.253 | ok | 1.253 | 1.193-1.313 |
| 1,2,3-Trimethylbenzene | 17.19 | 10.60 | 1.622 | ok | 1.621 | 1.561-1.681 |
| 1,2,4-Trimethylbenzene | 16.81 | 10.60 | 1.586 | ok | 1.585 | 1.525-1.645 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.60 | 1.542 | ok | 1.542 | 1.482-1.602 |
| 2,2,4-Trimethylpentane | 5.50 | 4.79 | 1.148 | ok | 1.148 | 1.088-1.208 |
| Tertiary Butyl Alcohol | 2.46 | 3.42 | 0.719 | ok | 0.722 | 0.662-0.782 |
| Tetrachloroethylene | 9.44 | 4.79 | 1.971 | ok | 1.972 | 1.912-2.032 |
| Tetrahydrofuran | 3.73 | 3.42 | 1.091 | ok | 1.093 | 1.033-1.153 |
| Toluene | 7.65 | 4.79 | 1.597 | ok | 1.598 | 1.538-1.658 |
| Trichloroethylene | 5.41 | 4.79 | 1.129 | ok | 1.129 | 1.069-1.189 |
| Trichlorofluoromethane | 2.25 | 3.42 | 0.658 | ok | 0.658 | 0.598-0.718 |
| Vinyl chloride | 1.86 | 3.42 | 0.544 | ok | 0.545 | 0.485-0.605 |
| Vinyl Acetate | 3.01 | 3.42 | 0.880 | ok | 0.882 | 0.822-0.942 |
| m,p-Xylene | 12.03 | 10.60 | 1.135 | ok | 1.133 | 1.073-1.193 |
| o-Xylene | 12.98 | 10.60 | 1.225 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.42 | ok | 3.41 | 3.08-3.74 | 46792 | ok | 48021 | 28813-67229 |
| 1,4-Difluorobenzene | 4.79 | ok | 4.79 | 4.46-5.12 | 248358 | ok | 247020 | 148212-345828 |
| Chlorobenzene-D5 | 10.60 | ok | 10.60 | 10.27-10.93 | 220143 | ok | 217916 | 130750-305082 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.19 | 3.41 | 0.642 | ok | 0.642 | 0.582-0.702 |
| Acrolein | 2.15 | 3.41 | 0.630 | ok | 0.630 | 0.570-0.690 |
| Acrylonitrile | 2.33 | 3.41 | 0.683 | ok | 0.683 | 0.623-0.743 |
| Acetonitrile | 2.11 | 3.41 | 0.619 | ok | 0.619 | 0.559-0.679 |
| 1,3-Butadiene | 1.90 | 3.41 | 0.557 | ok | 0.556 | 0.496-0.616 |
| Benzene | 4.44 | 3.41 | 1.302 | ok | 1.301 | 1.241-1.361 |
| Bromobenzene | 14.39 | 10.60 | 1.358 | ok | 1.357 | 1.297-1.417 |
| Bromodichloromethane | 5.35 | 4.79 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromoform | 11.85 | 10.60 | 1.118 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.97 | 3.41 | 0.578 | ok | 0.577 | 0.517-0.637 |
| Bromoethene | 2.12 | 3.41 | 0.622 | ok | 0.621 | 0.561-0.681 |
| n-Butane | 1.91 | 3.41 | 0.560 | ok | 0.560 | 0.500-0.620 |
| Benzyl Chloride | 16.89 | 10.60 | 1.593 | ok | 1.593 | 1.533-1.653 |
| n-Butylbenzene | 17.60 | 10.60 | 1.660 | ok | 1.659 | 1.599-1.719 |
| sec-Butylbenzene | 17.08 | 10.60 | 1.611 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.80 | 10.60 | 1.585 | ok | 1.584 | 1.524-1.644 |
| Carbon disulfide | 2.59 | 3.41 | 0.760 | ok | 0.759 | 0.699-0.819 |
| Chlorobenzene | 10.69 | 10.60 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.73 | 3.41 | 0.507 | ok | 0.507 | 0.447-0.567 |
| Chloroethane | 2.02 | 3.41 | 0.592 | ok | 0.592 | 0.532-0.652 |
| Chlorotrifluoroethene | 1.74 | 3.41 | 0.510 | ok | 0.510 | 0.450-0.570 |
| Chloroform | 3.50 | 3.41 | 1.026 | ok | 1.025 | 0.965-1.085 |
| Chloromethane | 1.80 | 3.41 | 0.528 | ok | 0.527 | 0.467-0.587 |
| 3-Chloropropene | 2.53 | 3.41 | 0.742 | ok | 0.742 | 0.682-0.802 |
| 2-Chlorotoluene | 15.54 | 10.60 | 1.466 | ok | 1.465 | 1.405-1.525 |
| Carbon tetrachloride | 4.56 | 3.41 | 1.337 | ok | 1.337 | 1.277-1.397 |
| Cyclohexane | 4.67 | 4.79 | 0.975 | ok | 0.974 | 0.914-1.034 |
| 1,1-Dichloroethane | 2.93 | 3.41 | 0.859 | ok | 0.858 | 0.798-0.918 |
| 1,1-Dichloroethylene | 2.45 | 3.41 | 0.718 | ok | 0.717 | 0.657-0.777 |
| 1,2-Dibromoethane (EDB) | 8.57 | 4.79 | 1.789 | ok | 1.789 | 1.729-1.849 |
| 1,2-Dichloroethane | 3.94 | 3.41 | 1.155 | ok | 1.154 | 1.094-1.214 |
| 1,2-Dichloropropane | 5.16 | 4.79 | 1.077 | ok | 1.077 | 1.017-1.137 |
| 1,3-Dichloropropane | 7.72 | 4.79 | 1.612 | ok | 1.611 | 1.551-1.671 |
| 1,4-Dioxane | 5.42 | 4.79 | 1.132 | ok | 1.136 | 1.076-1.196 |
| Dichlorodifluoromethane | 1.76 | 3.41 | 0.516 | ok | 0.516 | 0.456-0.576 |
| Dichlorofluoromethane | 2.05 | 3.41 | 0.601 | ok | 0.601 | 0.541-0.661 |
| Dibromochloromethane | 8.22 | 4.79 | 1.716 | ok | 1.715 | 1.655-1.775 |
| Dibromomethane | 5.12 | 4.79 | 1.069 | ok | 1.068 | 1.008-1.128 |
| trans-1,2-Dichloroethylene | 2.85 | 3.41 | 0.836 | ok | 0.834 | 0.774-0.894 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.33 | 3.41 | 0.977 | ok | 0.976 | 0.916-1.036 |
| cis-1,3-Dichloropropene | 6.40 | 4.79 | 1.336 | ok | 1.335 | 1.275-1.395 |
| m-Dichlorobenzene | 16.87 | 10.60 | 1.592 | ok | 1.591 | 1.531-1.651 |
| o-Dichlorobenzene | 17.24 | 10.60 | 1.626 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.95 | 10.60 | 1.599 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.11 | 4.79 | 1.484 | ok | 1.484 | 1.424-1.544 |
| Di-Isopropyl ether | 3.47 | 3.41 | 1.018 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.94 | 4.79 | 1.031 | ok | 1.031 | 0.971-1.091 |
| 2,4-Dimethylpentane | 4.02 | 3.41 | 1.179 | ok | 1.178 | 1.118-1.238 |
| Ethanol | 2.05 | 3.41 | 0.601 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.59 | 10.60 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.48 | 3.41 | 1.021 | ok | 1.020 | 0.960-1.080 |
| Ethyl Acrylate | 5.28 | 4.79 | 1.102 | ok | 1.104 | 1.044-1.164 |
| 4-Ethyltoluene | 16.21 | 10.60 | 1.529 | ok | 1.528 | 1.468-1.588 |
| Freon 113 | 2.59 | 3.41 | 0.760 | ok | 0.759 | 0.699-0.819 |
| Freon 114 | 1.83 | 3.41 | 0.537 | ok | 0.536 | 0.476-0.596 |
| Freon 123 | 2.16 | 3.41 | 0.633 | ok | 0.633 | 0.573-0.693 |
| Freon 123A | 2.18 | 3.41 | 0.639 | ok | 0.639 | 0.579-0.699 |
| Freon 142B | 1.80 | 3.41 | 0.528 | ok | 0.526 | 0.466-0.586 |
| Freon 152A | 1.72 | 3.41 | 0.504 | ok | 0.504 | 0.444-0.564 |
| Heptane | 5.83 | 4.79 | 1.217 | ok | 1.218 | 1.158-1.278 |
| Hexachlorobutadiene | 18.81 | 10.60 | 1.775 | ok | 1.774 | 1.714-1.834 |
| Hexachloroethane | 17.78 | 10.60 | 1.677 | ok | 1.676 | 1.616-1.736 |
| Hexane | 3.47 | 3.41 | 1.018 | ok | 1.017 | 0.957-1.077 |
| 2-Hexanone | 8.24 | 4.79 | 1.720 | ok | 1.722 | 1.662-1.782 |
| Iodomethane | 2.42 | 3.41 | 0.710 | ok | 0.709 | 0.649-0.769 |
| Isopropylbenzene | 14.51 | 10.60 | 1.369 | ok | 1.369 | 1.309-1.429 |
| Isopropyl Alcohol | 2.26 | 3.41 | 0.663 | ok | 0.663 | 0.603-0.723 |
| p-Isopropyltoluene | 17.25 | 10.60 | 1.627 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.49 | 3.41 | 0.730 | ok | 0.729 | 0.669-0.789 |
| Methyl ethyl ketone | 3.12 | 3.41 | 0.915 | ok | 0.914 | 0.854-0.974 |
| Methyl Isobutyl Ketone | 6.50 | 4.79 | 1.357 | ok | 1.359 | 1.299-1.419 |
| Methyl Tert Butyl Ether | 2.97 | 3.41 | 0.871 | ok | 0.870 | 0.810-0.930 |
| Methylmethacrylate | 5.73 | 4.79 | 1.196 | ok | 1.196 | 1.136-1.256 |
| Naphthalene | 18.55 | 10.60 | 1.750 | ok | 1.750 | 1.690-1.810 |
| Nonane | 14.10 | 10.60 | 1.330 | ok | 1.330 | 1.270-1.390 |
| Octane | 9.59 | 4.79 | 2.002 | ok | 2.002 | 1.942-2.062 |
| Pentane | 2.36 | 3.41 | 0.692 | ok | 0.691 | 0.631-0.751 |
| n-Propylbenzene | 15.87 | 10.60 | 1.497 | ok | 1.497 | 1.437-1.557 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.74 | 3.41 | 0.510 | ok | 0.510 | 0.450-0.570 |
| Styrene | 12.77 | 10.60 | 1.205 | ok | 1.203 | 1.143-1.263 |
| 1,1,1-Trichloroethane | 4.11 | 3.41 | 1.205 | ok | 1.204 | 1.144-1.264 |
| 1,1,1,2-Tetrachloroethane | 10.70 | 10.60 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.00 | 10.60 | 1.226 | ok | 1.226 | 1.166-1.286 |
| 1,1,2-Trichloroethane | 7.27 | 4.79 | 1.518 | ok | 1.519 | 1.459-1.579 |
| 1,2,4-Trichlorobenzene | 18.50 | 10.60 | 1.745 | ok | 1.745 | 1.685-1.805 |
| 1,2,3-Trichloropropane | 13.29 | 10.60 | 1.254 | ok | 1.253 | 1.193-1.313 |
| 1,2,3-Trimethylbenzene | 17.19 | 10.60 | 1.622 | ok | 1.621 | 1.561-1.681 |
| 1,2,4-Trimethylbenzene | 16.81 | 10.60 | 1.586 | ok | 1.585 | 1.525-1.645 |
| 1,3,5-Trimethylbenzene | 16.36 | 10.60 | 1.543 | ok | 1.542 | 1.482-1.602 |
| 2,2,4-Trimethylpentane | 5.50 | 4.79 | 1.148 | ok | 1.148 | 1.088-1.208 |
| Tertiary Butyl Alcohol | 2.46 | 3.41 | 0.721 | ok | 0.722 | 0.662-0.782 |
| Tetrachloroethylene | 9.44 | 4.79 | 1.971 | ok | 1.972 | 1.912-2.032 |
| Tetrahydrofuran | 3.72 | 3.41 | 1.091 | ok | 1.093 | 1.033-1.153 |
| Toluene | 7.65 | 4.79 | 1.597 | ok | 1.598 | 1.538-1.658 |
| Trichloroethylene | 5.40 | 4.79 | 1.127 | ok | 1.129 | 1.069-1.189 |
| Trichlorofluoromethane | 2.25 | 3.41 | 0.660 | ok | 0.658 | 0.598-0.718 |
| Vinyl chloride | 1.86 | 3.41 | 0.545 | ok | 0.545 | 0.485-0.605 |
| Vinyl Acetate | 3.01 | 3.41 | 0.883 | ok | 0.882 | 0.822-0.942 |
| m,p-Xylene | 12.03 | 10.60 | 1.135 | ok | 1.133 | 1.073-1.193 |
| o-Xylene | 12.98 | 10.60 | 1.225 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.41 | ok | 3.41 | 3.08-3.74 | 47197 | ok | 48021 | 28813-67229 |
| 1,4-Difluorobenzene | 4.79 | ok | 4.79 | 4.46-5.12 | 247829 | ok | 247020 | 148212-345828 |
| Chlorobenzene-D5 | 10.60 | ok | 10.60 | 10.27-10.93 | 218360 | ok | 217916 | 130750-305082 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.19 | 3.42 | 0.640 | ok | 0.642 | 0.582-0.702 |
| Acrolein | 2.15 | 3.42 | 0.629 | ok | 0.630 | 0.570-0.690 |
| Acrylonitrile | 2.33 | 3.42 | 0.681 | ok | 0.683 | 0.623-0.743 |
| Acetonitrile | 2.11 | 3.42 | 0.617 | ok | 0.619 | 0.559-0.679 |
| 1,3-Butadiene | 1.90 | 3.42 | 0.556 | ok | 0.556 | 0.496-0.616 |
| Benzene | 4.45 | 3.42 | 1.301 | ok | 1.301 | 1.241-1.361 |
| Bromobenzene | 14.40 | 10.61 | 1.357 | ok | 1.357 | 1.297-1.417 |
| Bromodichloromethane | 5.36 | 4.79 | 1.119 | ok | 1.117 | 1.057-1.177 |
| Bromoform | 11.85 | 10.61 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.97 | 3.42 | 0.576 | ok | 0.577 | 0.517-0.637 |
| Bromoethene | 2.12 | 3.42 | 0.620 | ok | 0.621 | 0.561-0.681 |
| n-Butane | 1.91 | 3.42 | 0.558 | ok | 0.560 | 0.500-0.620 |
| Benzyl Chloride | 16.90 | 10.61 | 1.593 | ok | 1.593 | 1.533-1.653 |
| n-Butylbenzene | 17.60 | 10.61 | 1.659 | ok | 1.659 | 1.599-1.719 |
| sec-Butylbenzene | 17.08 | 10.61 | 1.610 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.81 | 10.61 | 1.584 | ok | 1.584 | 1.524-1.644 |
| Carbon disulfide | 2.59 | 3.42 | 0.757 | ok | 0.759 | 0.699-0.819 |
| Chlorobenzene | 10.69 | 10.61 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.73 | 3.42 | 0.506 | ok | 0.507 | 0.447-0.567 |
| Chloroethane | 2.02 | 3.42 | 0.591 | ok | 0.592 | 0.532-0.652 |
| Chlorotrifluoroethene | 1.74 | 3.42 | 0.509 | ok | 0.510 | 0.450-0.570 |
| Chloroform | 3.50 | 3.42 | 1.023 | ok | 1.025 | 0.965-1.085 |
| Chloromethane | 1.80 | 3.42 | 0.526 | ok | 0.527 | 0.467-0.587 |
| 3-Chloropropene | 2.53 | 3.42 | 0.740 | ok | 0.742 | 0.682-0.802 |
| 2-Chlorotoluene | 15.54 | 10.61 | 1.465 | ok | 1.465 | 1.405-1.525 |
| Carbon tetrachloride | 4.57 | 3.42 | 1.336 | ok | 1.337 | 1.277-1.397 |
| Cyclohexane | 4.67 | 4.79 | 0.975 | ok | 0.974 | 0.914-1.034 |
| 1,1-Dichloroethane | 2.93 | 3.42 | 0.857 | ok | 0.858 | 0.798-0.918 |
| 1,1-Dichloroethylene | 2.45 | 3.42 | 0.716 | ok | 0.717 | 0.657-0.777 |
| 1,2-Dibromoethane (EDB) | 8.58 | 4.79 | 1.791 | ok | 1.789 | 1.729-1.849 |
| 1,2-Dichloroethane | 3.94 | 3.42 | 1.152 | ok | 1.154 | 1.094-1.214 |
| 1,2-Dichloropropane | 5.16 | 4.79 | 1.077 | ok | 1.077 | 1.017-1.137 |
| 1,3-Dichloropropane | 7.72 | 4.79 | 1.612 | ok | 1.611 | 1.551-1.671 |
| 1,4-Dioxane | 5.42 | 4.79 | 1.132 | ok | 1.136 | 1.076-1.196 |
| Dichlorodifluoromethane | 1.76 | 3.42 | 0.515 | ok | 0.516 | 0.456-0.576 |
| Dichlorofluoromethane | 2.05 | 3.42 | 0.599 | ok | 0.601 | 0.541-0.661 |
| Dibromochloromethane | 8.22 | 4.79 | 1.716 | ok | 1.715 | 1.655-1.775 |
| Dibromomethane | 5.12 | 4.79 | 1.069 | ok | 1.068 | 1.008-1.128 |
| trans-1,2-Dichloroethylene | 2.85 | 3.42 | 0.833 | ok | 0.834 | 0.774-0.894 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.33 | 3.42 | 0.974 | ok | 0.976 | 0.916-1.036 |
| cis-1,3-Dichloropropene | 6.40 | 4.79 | 1.336 | ok | 1.335 | 1.275-1.395 |
| m-Dichlorobenzene | 16.87 | 10.61 | 1.590 | ok | 1.591 | 1.531-1.651 |
| o-Dichlorobenzene | 17.24 | 10.61 | 1.625 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.95 | 10.61 | 1.598 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.11 | 4.79 | 1.484 | ok | 1.484 | 1.424-1.544 |
| Di-Isopropyl ether | 3.48 | 3.42 | 1.018 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.94 | 4.79 | 1.031 | ok | 1.031 | 0.971-1.091 |
| 2,4-Dimethylpentane | 4.02 | 3.42 | 1.175 | ok | 1.178 | 1.118-1.238 |
| Ethanol | 2.05 | 3.42 | 0.599 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.60 | 10.61 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.48 | 3.42 | 1.018 | ok | 1.020 | 0.960-1.080 |
| Ethyl Acrylate | 5.29 | 4.79 | 1.104 | ok | 1.104 | 1.044-1.164 |
| 4-Ethyltoluene | 16.21 | 10.61 | 1.528 | ok | 1.528 | 1.468-1.588 |
| Freon 113 | 2.59 | 3.42 | 0.757 | ok | 0.759 | 0.699-0.819 |
| Freon 114 | 1.83 | 3.42 | 0.535 | ok | 0.536 | 0.476-0.596 |
| Freon 123 | 2.17 | 3.42 | 0.635 | ok | 0.633 | 0.573-0.693 |
| Freon 123A | 2.18 | 3.42 | 0.637 | ok | 0.639 | 0.579-0.699 |
| Freon 142B | 1.80 | 3.42 | 0.526 | ok | 0.526 | 0.466-0.586 |
| Freon 152A | 1.72 | 3.42 | 0.503 | ok | 0.504 | 0.444-0.564 |
| Heptane | 5.84 | 4.79 | 1.219 | ok | 1.218 | 1.158-1.278 |
| Hexachlorobutadiene | 18.81 | 10.61 | 1.773 | ok | 1.774 | 1.714-1.834 |
| Hexachloroethane | 17.78 | 10.61 | 1.676 | ok | 1.676 | 1.616-1.736 |
| Hexane | 3.47 | 3.42 | 1.015 | ok | 1.017 | 0.957-1.077 |
| 2-Hexanone | 8.25 | 4.79 | 1.722 | ok | 1.722 | 1.662-1.782 |
| Iodomethane | 2.42 | 3.42 | 0.708 | ok | 0.709 | 0.649-0.769 |
| Isopropylbenzene | 14.52 | 10.61 | 1.369 | ok | 1.369 | 1.309-1.429 |
| Isopropyl Alcohol | 2.26 | 3.42 | 0.661 | ok | 0.663 | 0.603-0.723 |
| p-Isopropyltoluene | 17.26 | 10.61 | 1.627 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.49 | 3.42 | 0.728 | ok | 0.729 | 0.669-0.789 |
| Methyl ethyl ketone | 3.12 | 3.42 | 0.912 | ok | 0.914 | 0.854-0.974 |
| Methyl Isobutyl Ketone | 6.51 | 4.79 | 1.359 | ok | 1.359 | 1.299-1.419 |
| Methyl Tert Butyl Ether | 2.97 | 3.42 | 0.868 | ok | 0.870 | 0.810-0.930 |
| Methylmethacrylate | 5.73 | 4.79 | 1.196 | ok | 1.196 | 1.136-1.256 |
| Naphthalene | 18.56 | 10.61 | 1.749 | ok | 1.750 | 1.690-1.810 |
| Nonane | 14.11 | 10.61 | 1.330 | ok | 1.330 | 1.270-1.390 |
| Octane | 9.59 | 4.79 | 2.002 | ok | 2.002 | 1.942-2.062 |
| Pentane | 2.36 | 3.42 | 0.690 | ok | 0.691 | 0.631-0.751 |
| n-Propylbenzene | 15.88 | 10.61 | 1.497 | ok | 1.497 | 1.437-1.557 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | Reporting this level |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.74 | 3.42 | 0.509 | ok | 0.510 | 0.450-0.570 |
| Styrene | 12.77 | 10.61 | 1.204 | ok | 1.203 | 1.143-1.263 |
| 1,1,1-Trichloroethane | 4.11 | 3.42 | 1.202 | ok | 1.204 | 1.144-1.264 |
| 1,1,1,2-Tetrachloroethane | 10.71 | 10.61 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.01 | 10.61 | 1.226 | ok | 1.226 | 1.166-1.286 |
| 1,1,2-Trichloroethane | 7.28 | 4.79 | 1.520 | ok | 1.519 | 1.459-1.579 |
| 1,2,4-Trichlorobenzene | 18.51 | 10.61 | 1.745 | ok | 1.745 | 1.685-1.805 |
| 1,2,3-Trichloropropane | 13.30 | 10.61 | 1.254 | ok | 1.253 | 1.193-1.313 |
| 1,2,3-Trimethylbenzene | 17.19 | 10.61 | 1.620 | ok | 1.621 | 1.561-1.681 |
| 1,2,4-Trimethylbenzene | 16.82 | 10.61 | 1.585 | ok | 1.585 | 1.525-1.645 |
| 1,3,5-Trimethylbenzene | 16.36 | 10.61 | 1.542 | ok | 1.542 | 1.482-1.602 |
| 2,2,4-Trimethylpentane | 5.50 | 4.79 | 1.148 | ok | 1.148 | 1.088-1.208 |
| Tertiary Butyl Alcohol | 2.46 | 3.42 | 0.719 | ok | 0.722 | 0.662-0.782 |
| Tetrachloroethylene | 9.45 | 4.79 | 1.973 | ok | 1.972 | 1.912-2.032 |
| Tetrahydrofuran | 3.72 | 3.42 | 1.088 | ok | 1.093 | 1.033-1.153 |
| Toluene | 7.66 | 4.79 | 1.599 | ok | 1.598 | 1.538-1.658 |
| Trichloroethylene | 5.41 | 4.79 | 1.129 | ok | 1.129 | 1.069-1.189 |
| Trichlorofluoromethane | 2.24 | 3.42 | 0.655 | ok | 0.658 | 0.598-0.718 |
| Vinyl chloride | 1.86 | 3.42 | 0.544 | ok | 0.545 | 0.485-0.605 |
| Vinyl Acetate | 3.01 | 3.42 | 0.880 | ok | 0.882 | 0.822-0.942 |
| m,p-Xylene | 12.04 | 10.61 | 1.135 | ok | 1.133 | 1.073-1.193 |
| o-Xylene | 12.99 | 10.61 | 1.224 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.42 | ok | 3.41 | 3.08-3.74 | 51457 | ok | 48021 | 28813-67229 |
| 1,4-Difluorobenzene | 4.79 | ok | 4.79 | 4.46-5.12 | 252022 | ok | 247020 | 148212-345828 |
| Chlorobenzene-D5 | 10.61 | ok | 10.60 | 10.27-10.93 | 222394 | ok | 217916 | 130750-305082 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.19 | 3.41 | 0.642 | ok | 0.642 | 0.582-0.702 |
| Acrolein | 2.15 | 3.41 | 0.630 | ok | 0.630 | 0.570-0.690 |
| Acrylonitrile | 2.33 | 3.41 | 0.683 | ok | 0.683 | 0.623-0.743 |
| Acetonitrile | 2.11 | 3.41 | 0.619 | ok | 0.619 | 0.559-0.679 |
| 1,3-Butadiene | 1.90 | 3.41 | 0.557 | ok | 0.556 | 0.496-0.616 |
| Benzene | 4.44 | 3.41 | 1.302 | ok | 1.301 | 1.241-1.361 |
| Bromobenzene | 14.40 | 10.61 | 1.357 | ok | 1.357 | 1.297-1.417 |
| Bromodichloromethane | 5.36 | 4.79 | 1.119 | ok | 1.117 | 1.057-1.177 |
| Bromoform | 11.86 | 10.61 | 1.118 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.97 | 3.41 | 0.578 | ok | 0.577 | 0.517-0.637 |
| Bromoethene | 2.12 | 3.41 | 0.622 | ok | 0.621 | 0.561-0.681 |
| n-Butane | 1.91 | 3.41 | 0.560 | ok | 0.560 | 0.500-0.620 |
| Benzyl Chloride | 16.90 | 10.61 | 1.593 | ok | 1.593 | 1.533-1.653 |
| n-Butylbenzene | 17.60 | 10.61 | 1.659 | ok | 1.659 | 1.599-1.719 |
| sec-Butylbenzene | 17.08 | 10.61 | 1.610 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.81 | 10.61 | 1.584 | ok | 1.584 | 1.524-1.644 |
| Carbon disulfide | 2.59 | 3.41 | 0.760 | ok | 0.759 | 0.699-0.819 |
| Chlorobenzene | 10.70 | 10.61 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.73 | 3.41 | 0.507 | ok | 0.507 | 0.447-0.567 |
| Chloroethane | 2.02 | 3.41 | 0.592 | ok | 0.592 | 0.532-0.652 |
| Chlorotrifluoroethene | 1.74 | 3.41 | 0.510 | ok | 0.510 | 0.450-0.570 |
| Chloroform | 3.50 | 3.41 | 1.026 | ok | 1.025 | 0.965-1.085 |
| Chloromethane | 1.80 | 3.41 | 0.528 | ok | 0.527 | 0.467-0.587 |
| 3-Chloropropene | 2.53 | 3.41 | 0.742 | ok | 0.742 | 0.682-0.802 |
| 2-Chlorotoluene | 15.55 | 10.61 | 1.466 | ok | 1.465 | 1.405-1.525 |
| Carbon tetrachloride | 4.56 | 3.41 | 1.337 | ok | 1.337 | 1.277-1.397 |
| Cyclohexane | 4.67 | 4.79 | 0.975 | ok | 0.974 | 0.914-1.034 |
| 1,1-Dichloroethane | 2.93 | 3.41 | 0.859 | ok | 0.858 | 0.798-0.918 |
| 1,1-Dichloroethylene | 2.45 | 3.41 | 0.718 | ok | 0.717 | 0.657-0.777 |
| 1,2-Dibromoethane (EDB) | 8.58 | 4.79 | 1.791 | ok | 1.789 | 1.729-1.849 |
| 1,2-Dichloroethane | 3.94 | 3.41 | 1.155 | ok | 1.154 | 1.094-1.214 |
| 1,2-Dichloropropane | 5.16 | 4.79 | 1.077 | ok | 1.077 | 1.017-1.137 |
| 1,3-Dichloropropane | 7.72 | 4.79 | 1.612 | ok | 1.611 | 1.551-1.671 |
| 1,4-Dioxane | 5.42 | 4.79 | 1.132 | ok | 1.136 | 1.076-1.196 |
| Dichlorodifluoromethane | 1.76 | 3.41 | 0.516 | ok | 0.516 | 0.456-0.576 |
| Dichlorofluoromethane | 2.05 | 3.41 | 0.601 | ok | 0.601 | 0.541-0.661 |
| Dibromochloromethane | 8.22 | 4.79 | 1.716 | ok | 1.715 | 1.655-1.775 |
| Dibromomethane | 5.12 | 4.79 | 1.069 | ok | 1.068 | 1.008-1.128 |
| trans-1,2-Dichloroethylene | 2.85 | 3.41 | 0.836 | ok | 0.834 | 0.774-0.894 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.33 | 3.41 | 0.977 | ok | 0.976 | 0.916-1.036 |
| cis-1,3-Dichloropropene | 6.40 | 4.79 | 1.336 | ok | 1.335 | 1.275-1.395 |
| m-Dichlorobenzene | 16.88 | 10.61 | 1.591 | ok | 1.591 | 1.531-1.651 |
| o-Dichlorobenzene | 17.25 | 10.61 | 1.626 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.96 | 10.61 | 1.598 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.11 | 4.79 | 1.484 | ok | 1.484 | 1.424-1.544 |
| Di-Isopropyl ether | 3.48 | 3.41 | 1.021 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.94 | 4.79 | 1.031 | ok | 1.031 | 0.971-1.091 |
| 2,4-Dimethylpentane | 4.02 | 3.41 | 1.179 | ok | 1.178 | 1.118-1.238 |
| Ethanol | 2.05 | 3.41 | 0.601 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.60 | 10.61 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.48 | 3.41 | 1.021 | ok | 1.020 | 0.960-1.080 |
| Ethyl Acrylate | 5.29 | 4.79 | 1.104 | ok | 1.104 | 1.044-1.164 |
| 4-Ethyltoluene | 16.22 | 10.61 | 1.529 | ok | 1.528 | 1.468-1.588 |
| Freon 113 | 2.59 | 3.41 | 0.760 | ok | 0.759 | 0.699-0.819 |
| Freon 114 | 1.83 | 3.41 | 0.537 | ok | 0.536 | 0.476-0.596 |
| Freon 123 | 2.16 | 3.41 | 0.633 | ok | 0.633 | 0.573-0.693 |
| Freon 123A | 2.18 | 3.41 | 0.639 | ok | 0.639 | 0.579-0.699 |
| Freon 142B | 1.79 | 3.41 | 0.525 | ok | 0.526 | 0.466-0.586 |
| Freon 152A | 1.72 | 3.41 | 0.504 | ok | 0.504 | 0.444-0.564 |
| Heptane | 5.84 | 4.79 | 1.219 | ok | 1.218 | 1.158-1.278 |
| Hexachlorobutadiene | 18.81 | 10.61 | 1.773 | ok | 1.774 | 1.714-1.834 |
| Hexachloroethane | 17.78 | 10.61 | 1.676 | ok | 1.676 | 1.616-1.736 |
| Hexane | 3.47 | 3.41 | 1.018 | ok | 1.017 | 0.957-1.077 |
| 2-Hexanone | 8.25 | 4.79 | 1.722 | ok | 1.722 | 1.662-1.782 |
| Iodomethane | 2.42 | 3.41 | 0.710 | ok | 0.709 | 0.649-0.769 |
| Isopropylbenzene | 14.53 | 10.61 | 1.369 | ok | 1.369 | 1.309-1.429 |
| Isopropyl Alcohol | 2.26 | 3.41 | 0.663 | ok | 0.663 | 0.603-0.723 |
| p-Isopropyltoluene | 17.26 | 10.61 | 1.627 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.49 | 3.41 | 0.730 | ok | 0.729 | 0.669-0.789 |
| Methyl ethyl ketone | 3.11 | 3.41 | 0.912 | ok | 0.914 | 0.854-0.974 |
| Methyl Isobutyl Ketone | 6.51 | 4.79 | 1.359 | ok | 1.359 | 1.299-1.419 |
| Methyl Tert Butyl Ether | 2.97 | 3.41 | 0.871 | ok | 0.870 | 0.810-0.930 |
| Methylmethacrylate | 5.73 | 4.79 | 1.196 | ok | 1.196 | 1.136-1.256 |
| Naphthalene | 18.56 | 10.61 | 1.749 | ok | 1.750 | 1.690-1.810 |
| Nonane | 14.12 | 10.61 | 1.331 | ok | 1.330 | 1.270-1.390 |
| Octane | 9.59 | 4.79 | 2.002 | ok | 2.002 | 1.942-2.062 |
| Pentane | 2.36 | 3.41 | 0.692 | ok | 0.691 | 0.631-0.751 |
| n-Propylbenzene | 15.88 | 10.61 | 1.497 | ok | 1.497 | 1.437-1.557 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | TCH | 50 | GCMS6W | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.74 | 3.41 | 0.510 | ok | 0.510 | 0.450-0.570 |
| Styrene | 12.77 | 10.61 | 1.204 | ok | 1.203 | 1.143-1.263 |
| 1,1,1-Trichloroethane | 4.11 | 3.41 | 1.205 | ok | 1.204 | 1.144-1.264 |
| 1,1,1,2-Tetrachloroethane | 10.71 | 10.61 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.01 | 10.61 | 1.226 | ok | 1.226 | 1.166-1.286 |
| 1,1,2-Trichloroethane | 7.28 | 4.79 | 1.520 | ok | 1.519 | 1.459-1.579 |
| 1,2,4-Trichlorobenzene | 18.51 | 10.61 | 1.745 | ok | 1.745 | 1.685-1.805 |
| 1,2,3-Trichloropropane | 13.30 | 10.61 | 1.254 | ok | 1.253 | 1.193-1.313 |
| 1,2,3-Trimethylbenzene | 17.20 | 10.61 | 1.621 | ok | 1.621 | 1.561-1.681 |
| 1,2,4-Trimethylbenzene | 16.82 | 10.61 | 1.585 | ok | 1.585 | 1.525-1.645 |
| 1,3,5-Trimethylbenzene | 16.36 | 10.61 | 1.542 | ok | 1.542 | 1.482-1.602 |
| 2,2,4-Trimethylpentane | 5.50 | 4.79 | 1.148 | ok | 1.148 | 1.088-1.208 |
| Tertiary Butyl Alcohol | 2.46 | 3.41 | 0.721 | ok | 0.722 | 0.662-0.782 |
| Tetrachloroethylene | 9.45 | 4.79 | 1.973 | ok | 1.972 | 1.912-2.032 |
| Tetrahydrofuran | 3.72 | 3.41 | 1.091 | ok | 1.093 | 1.033-1.153 |
| Toluene | 7.66 | 4.79 | 1.599 | ok | 1.598 | 1.538-1.658 |
| Trichloroethylene | 5.41 | 4.79 | 1.129 | ok | 1.129 | 1.069-1.189 |
| Trichlorofluoromethane | 2.24 | 3.41 | 0.657 | ok | 0.658 | 0.598-0.718 |
| Vinyl chloride | 1.86 | 3.41 | 0.545 | ok | 0.545 | 0.485-0.605 |
| Vinyl Acetate | 3.01 | 3.41 | 0.883 | ok | 0.882 | 0.822-0.942 |
| m,p-Xylene | 12.04 | 10.61 | 1.135 | ok | 1.133 | 1.073-1.193 |
| o-Xylene | 12.99 | 10.61 | 1.224 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.41 | ok | 3.41 | 3.08-3.74 | 58685 | ok | 48021 | 28813-67229 |
| 1,4-Difluorobenzene | 4.79 | ok | 4.79 | 4.46-5.12 | 246613 | ok | 247020 | 148212-345828 |
| Chlorobenzene-D5 | 10.61 | ok | 10.60 | 10.27-10.93 | 217461 | ok | 217916 | 130750-305082 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Benzene | 4.39 | 3.34 | 1.314 | ok | 1.312 | 1.252-1.372 |
| Bromobenzene | 14.37 | 10.59 | 1.357 | ok | 1.358 | 1.298-1.418 |
| Bromodichloromethane | 5.29 | 4.73 | 1.118 | ok | 1.119 | 1.059-1.179 |
| n-Butane | 1.88 | 3.34 | 0.563 | ok | 0.563 | 0.503-0.623 |
| n-Butylbenzene | 17.59 | 10.59 | 1.661 | ok | 1.661 | 1.601-1.721 |
| sec-Butylbenzene | 17.07 | 10.59 | 1.612 | ok | 1.613 | 1.553-1.673 |
| tert-Butylbenzene | 16.80 | 10.59 | 1.586 | ok | 1.587 | 1.527-1.647 |
| Carbon disulfide | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Chlorobenzene | 10.67 | 10.59 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chloroform | 3.42 | 3.34 | 1.024 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.78 | 3.34 | 0.533 | ok | 0.531 | 0.471-0.591 |
| 2-Chlorotoluene | 15.52 | 10.59 | 1.466 | ok | 1.466 | 1.406-1.526 |
| Carbon tetrachloride | 4.50 | 3.34 | 1.347 | ok | 1.348 | 1.288-1.408 |
| 1,1-Dichloroethane | 2.86 | 3.34 | 0.856 | ok | 0.854 | 0.794-0.914 |
| Dichlorodifluoromethane | 1.73 | 3.34 | 0.518 | ok | 0.518 | 0.458-0.578 |
| Dichlorofluoromethane | 2.00 | 3.34 | 0.599 | ok | 0.599 | 0.539-0.659 |
| Dibromochloromethane | 8.18 | 4.73 | 1.729 | ok | 1.729 | 1.669-1.789 |
| m-Dichlorobenzene | 16.86 | 10.59 | 1.592 | ok | 1.593 | 1.533-1.653 |
| o-Dichlorobenzene | 17.24 | 10.59 | 1.628 | ok | 1.628 | 1.568-1.688 |
| p-Dichlorobenzene | 16.94 | 10.59 | 1.600 | ok | 1.601 | 1.541-1.661 |
| 2,4-Dimethylpentane | 3.96 | 3.34 | 1.186 | ok | 1.186 | 1.126-1.246 |
| Ethylbenzene | 11.57 | 10.59 | 1.093 | ok | 1.093 | 1.033-1.153 |
| 4-Ethyltoluene | 16.20 | 10.59 | 1.530 | ok | 1.531 | 1.471-1.591 |
| Freon 114 | 1.80 | 3.34 | 0.539 | ok | 0.539 | 0.479-0.599 |
| Freon 123 | 2.12 | 3.34 | 0.635 | ok | 0.634 | 0.574-0.694 |
| Freon 142B | 1.77 | 3.34 | 0.530 | ok | 0.530 | 0.470-0.590 |
| Heptane | 5.78 | 4.73 | 1.222 | ok | 1.222 | 1.162-1.282 |
| Hexachloroethane | 17.77 | 10.59 | 1.678 | ok | 1.678 | 1.618-1.738 |
| Iodomethane | 2.36 | 3.34 | 0.707 | ok | 0.706 | 0.646-0.766 |
| Isopropylbenzene | 14.50 | 10.59 | 1.369 | ok | 1.370 | 1.310-1.430 |
| Isopropyl Alcohol | 2.22 | 3.34 | 0.665 | ok | 0.662 | 0.602-0.722 |
| p-Isopropyltoluene | 17.25 | 10.59 | 1.629 | ok | 1.629 | 1.569-1.689 |
| Nonane | 14.08 | 10.59 | 1.330 | ok | 1.331 | 1.271-1.391 |
| Octane | 9.56 | 4.73 | 2.021 | ok | 2.020 | 1.960-2.080 |
| n-Propylbenzene | 15.85 | 10.59 | 1.497 | ok | 1.498 | 1.438-1.558 |
| Styrene | 12.74 | 10.59 | 1.203 | ok | 1.204 | 1.144-1.264 |
| 1,1,2,2-Tetrachloroethane | 12.98 | 10.59 | 1.226 | ok | 1.227 | 1.167-1.287 |
| 1,2,3-Trimethylbenzene | 17.18 | 10.59 | 1.622 | ok | 1.623 | 1.563-1.683 |
| 1,2,4-Trimethylbenzene | 16.80 | 10.59 | 1.586 | ok | 1.587 | 1.527-1.647 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 16.35 | 10.59 | 1.544 | ok | 1.545 | 1.485-1.605 |
| 2,2,4-Trimethylpentane | 5.45 | 4.73 | 1.152 | ok | 1.151 | 1.091-1.211 |
| Tetrachloroethylene | 9.42 | 4.73 | 1.992 | ok | 1.989 | 1.929-2.049 |
| Toluene | 7.61 | 4.73 | 1.609 | ok | 1.609 | 1.549-1.669 |
| Trichloroethylene | 5.34 | 4.73 | 1.129 | ok | 1.130 | 1.070-1.190 |
| Trichlorofluoromethane | 2.19 | 3.34 | 0.656 | ok | 0.656 | 0.596-0.716 |
| Vinyl chloride | 1.83 | 3.34 | 0.548 | ok | 0.548 | 0.488-0.608 |
| m,p-Xylene | 12.02 | 10.59 | 1.135 | ok | 1.135 | 1.075-1.195 |
| o-Xylene | 12.96 | 10.59 | 1.224 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.34 | ok | 3.34 | 3.01-3.67 | 49562 | ok | 48058 | 28835-67281 |
| 1,4-Difluorobenzene | 4.73 | ok | 4.73 | 4.40-5.06 | 238408 | ok | 240724 | 144434-337014 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 206644 | ok | 213567 | 128140-298994 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acrylonitrile | 2.27 | 3.34 | 0.680 | ok | 0.680 | 0.620-0.740 |
| Acetonitrile | 2.07 | 3.34 | 0.620 | ok | 0.618 | 0.558-0.678 |
| 1,3-Butadiene | 1.87 | 3.34 | 0.560 | ok | 0.559 | 0.499-0.619 |
| Benzene | 4.38 | 3.34 | 1.311 | ok | 1.312 | 1.252-1.372 |
| Bromobenzene | 14.38 | 10.58 | 1.359 | ok | 1.358 | 1.298-1.418 |
| Bromodichloromethane | 5.29 | 4.73 | 1.118 | ok | 1.119 | 1.059-1.179 |
| Bromoform | 11.82 | 10.58 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.94 | 3.34 | 0.581 | ok | 0.579 | 0.519-0.639 |
| Bromoethene | 2.08 | 3.34 | 0.623 | ok | 0.620 | 0.560-0.680 |
| n-Butane | 1.88 | 3.34 | 0.563 | ok | 0.563 | 0.503-0.623 |
| Benzyl Chloride | 16.89 | 10.58 | 1.596 | ok | 1.595 | 1.535-1.655 |
| n-Butylbenzene | 17.58 | 10.58 | 1.662 | ok | 1.661 | 1.601-1.721 |
| sec-Butylbenzene | 17.07 | 10.58 | 1.613 | ok | 1.613 | 1.553-1.673 |
| tert-Butylbenzene | 16.79 | 10.58 | 1.587 | ok | 1.587 | 1.527-1.647 |
| Carbon disulfide | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Chlorobenzene | 10.66 | 10.58 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chloroethane | 1.98 | 3.34 | 0.593 | ok | 0.593 | 0.533-0.653 |
| Chlorotrifluoroethene | 1.72 | 3.34 | 0.515 | ok | 0.513 | 0.453-0.573 |
| Chloroform | 3.42 | 3.34 | 1.024 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.78 | 3.34 | 0.533 | ok | 0.531 | 0.471-0.591 |
| 2-Chlorotoluene | 15.52 | 10.58 | 1.467 | ok | 1.466 | 1.406-1.526 |
| Carbon tetrachloride | 4.50 | 3.34 | 1.347 | ok | 1.348 | 1.288-1.408 |
| Cyclohexane | 4.61 | 4.73 | 0.975 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.86 | 3.34 | 0.856 | ok | 0.854 | 0.794-0.914 |
| 1,1-Dichloroethylene | 2.39 | 3.34 | 0.716 | ok | 0.713 | 0.653-0.773 |
| 1,2-Dibromoethane (EDB) | 8.52 | 4.73 | 1.801 | ok | 1.803 | 1.743-1.863 |
| 1,2-Dichloroethane | 3.87 | 3.34 | 1.159 | ok | 1.158 | 1.098-1.218 |
| 1,2-Dichloropropane | 5.10 | 4.73 | 1.078 | ok | 1.078 | 1.018-1.138 |
| 1,3-Dichloropropane | 7.68 | 4.73 | 1.624 | ok | 1.623 | 1.563-1.683 |
| Dichlorodifluoromethane | 1.73 | 3.34 | 0.518 | ok | 0.518 | 0.458-0.578 |
| Dichlorofluoromethane | 2.00 | 3.34 | 0.599 | ok | 0.599 | 0.539-0.659 |
| Dibromochloromethane | 8.19 | 4.73 | 1.732 | ok | 1.729 | 1.669-1.789 |
| Dibromomethane | 5.06 | 4.73 | 1.070 | ok | 1.068 | 1.008-1.128 |
| trans-1,2-Dichloroethylene | 2.77 | 3.34 | 0.829 | ok | 0.829 | 0.769-0.889 |
| cis-1,2-Dichloroethylene | 3.25 | 3.34 | 0.973 | ok | 0.973 | 0.913-1.033 |
| cis-1,3-Dichloropropene | 6.35 | 4.73 | 1.342 | ok | 1.341 | 1.281-1.401 |
| m-Dichlorobenzene | 16.86 | 10.58 | 1.594 | ok | 1.593 | 1.533-1.653 |
| o-Dichlorobenzene | 17.23 | 10.58 | 1.629 | ok | 1.628 | 1.568-1.688 |
| p-Dichlorobenzene | 16.95 | 10.58 | 1.602 | ok | 1.601 | 1.541-1.661 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | 7.06 | 4.73 | 1.493 | ok | 1.492 | 1.432-1.552 |
| 2,4-Dimethylpentane | 3.96 | 3.34 | 1.186 | ok | 1.186 | 1.126-1.246 |
| Ethylbenzene | 11.56 | 10.58 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acrylate | 5.24 | 4.73 | 1.108 | ok | 1.106 | 1.046-1.166 |
| 4-Ethyltoluene | 16.20 | 10.58 | 1.531 | ok | 1.531 | 1.471-1.591 |
| Freon 113 | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Freon 114 | 1.80 | 3.34 | 0.539 | ok | 0.539 | 0.479-0.599 |
| Freon 123 | 2.12 | 3.34 | 0.635 | ok | 0.634 | 0.574-0.694 |
| Freon 123A | 2.14 | 3.34 | 0.641 | ok | 0.638 | 0.578-0.698 |
| Freon 142B | 1.77 | 3.34 | 0.530 | ok | 0.530 | 0.470-0.590 |
| Heptane | 5.79 | 4.73 | 1.224 | ok | 1.222 | 1.162-1.282 |
| Hexachlorobutadiene | 18.79 | 10.58 | 1.776 | ok | 1.774 | 1.714-1.834 |
| Hexachloroethane | 17.76 | 10.58 | 1.679 | ok | 1.678 | 1.618-1.738 |
| Hexane | 3.40 | 3.34 | 1.018 | ok | 1.016 | 0.956-1.076 |
| Iodomethane | 2.36 | 3.34 | 0.707 | ok | 0.706 | 0.646-0.766 |
| Isopropylbenzene | 14.50 | 10.58 | 1.371 | ok | 1.370 | 1.310-1.430 |
| Isopropyl Alcohol | 2.22 | 3.34 | 0.665 | ok | 0.662 | 0.602-0.722 |
| p-Isopropyltoluene | 17.24 | 10.58 | 1.629 | ok | 1.629 | 1.569-1.689 |
| Methyl Isobutyl Ketone | 6.48 | 4.73 | 1.370 | ok | 1.367 | 1.307-1.427 |
| Methyl Tert Butyl Ether | 2.89 | 3.34 | 0.865 | ok | 0.865 | 0.805-0.925 |
| Methylmethacrylate | 5.69 | 4.73 | 1.203 | ok | 1.201 | 1.141-1.261 |
| Nonane | 14.08 | 10.58 | 1.331 | ok | 1.331 | 1.271-1.391 |
| Octane | 9.56 | 4.73 | 2.021 | ok | 2.020 | 1.960-2.080 |
| Pentane | 2.30 | 3.34 | 0.689 | ok | 0.689 | 0.629-0.749 |
| n-Propylbenzene | 15.86 | 10.58 | 1.499 | ok | 1.498 | 1.438-1.558 |
| Propylene | 1.71 | 3.34 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Styrene | 12.75 | 10.58 | 1.205 | ok | 1.204 | 1.144-1.264 |
| 1,1,1-Trichloroethane | 4.05 | 3.34 | 1.213 | ok | 1.212 | 1.152-1.272 |
| 1,1,1,2-Tetrachloroethane | 10.68 | 10.58 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.98 | 10.58 | 1.227 | ok | 1.227 | 1.167-1.287 |
| 1,1,2-Trichloroethane | 7.23 | 4.73 | 1.529 | ok | 1.528 | 1.468-1.588 |
| 1,2,3-Trichloropropane | 13.25 | 10.58 | 1.252 | ok | 1.253 | 1.193-1.313 |
| 1,2,3-Trimethylbenzene | 17.18 | 10.58 | 1.624 | ok | 1.623 | 1.563-1.683 |
| 1,2,4-Trimethylbenzene | 16.80 | 10.58 | 1.588 | ok | 1.587 | 1.527-1.647 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.58 | 1.545 | ok | 1.545 | 1.485-1.605 |
| 2,2,4-Trimethylpentane | 5.45 | 4.73 | 1.152 | ok | 1.151 | 1.091-1.211 |
| Tertiary Butyl Alcohol | 2.41 | 3.34 | 0.722 | ok | 0.719 | 0.659-0.779 |
| Tetrachloroethylene | 9.41 | 4.73 | 1.989 | ok | 1.989 | 1.929-2.049 |
| Toluene | 7.62 | 4.73 | 1.611 | ok | 1.609 | 1.549-1.669 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Trichloroethylene | 5.35 | 4.73 | 1.131 | ok | 1.130 | 1.070-1.190 |
| Trichlorofluoromethane | 2.19 | 3.34 | 0.656 | ok | 0.656 | 0.596-0.716 |
| Vinyl chloride | 1.83 | 3.34 | 0.548 | ok | 0.548 | 0.488-0.608 |
| m,p-Xylene | 12.01 | 10.58 | 1.135 | ok | 1.135 | 1.075-1.195 |
| o-Xylene | 12.95 | 10.58 | 1.224 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.34 | ok | 3.34 | 3.01-3.67 | 48898 | ok | 48058 | 28835-67281 |
| 1,4-Difluorobenzene | 4.73 | ok | 4.73 | 4.40-5.06 | 236998 | ok | 240724 | 144434-337014 |
| Chlorobenzene-D5 | 10.58 | ok | 10.59 | 10.26-10.92 | 208233 | ok | 213567 | 128140-298994 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.14 | 3.34 | 0.641 | ok | 0.641 | 0.581-0.701 |
| Acrolein | 2.10 | 3.34 | 0.629 | ok | 0.629 | 0.569-0.689 |
| Acrylonitrile | 2.27 | 3.34 | 0.680 | ok | 0.680 | 0.620-0.740 |
| Acetonitrile | 2.07 | 3.34 | 0.620 | ok | 0.618 | 0.558-0.678 |
| 1,3-Butadiene | 1.87 | 3.34 | 0.560 | ok | 0.559 | 0.499-0.619 |
| Benzene | 4.38 | 3.34 | 1.311 | ok | 1.312 | 1.252-1.372 |
| Bromobenzene | 14.37 | 10.58 | 1.358 | ok | 1.358 | 1.298-1.418 |
| Bromodichloromethane | 5.29 | 4.73 | 1.118 | ok | 1.119 | 1.059-1.179 |
| Bromoform | 11.83 | 10.58 | 1.118 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.93 | 3.34 | 0.578 | ok | 0.579 | 0.519-0.639 |
| Bromoethene | 2.07 | 3.34 | 0.620 | ok | 0.620 | 0.560-0.680 |
| n-Butane | 1.88 | 3.34 | 0.563 | ok | 0.563 | 0.503-0.623 |
| Benzyl Chloride | 16.88 | 10.58 | 1.595 | ok | 1.595 | 1.535-1.655 |
| n-Butylbenzene | 17.59 | 10.58 | 1.663 | ok | 1.661 | 1.601-1.721 |
| sec-Butylbenzene | 17.07 | 10.58 | 1.613 | ok | 1.613 | 1.553-1.673 |
| tert-Butylbenzene | 16.79 | 10.58 | 1.587 | ok | 1.587 | 1.527-1.647 |
| Carbon disulfide | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Chlorobenzene | 10.66 | 10.58 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.71 | 3.34 | 0.512 | ok | 0.511 | 0.451-0.571 |
| Chloroethane | 1.98 | 3.34 | 0.593 | ok | 0.593 | 0.533-0.653 |
| Chlorotrifluoroethene | 1.72 | 3.34 | 0.515 | ok | 0.513 | 0.453-0.573 |
| Chloroform | 3.42 | 3.34 | 1.024 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.77 | 3.34 | 0.530 | ok | 0.531 | 0.471-0.591 |
| 3-Chloropropene | 2.46 | 3.34 | 0.737 | ok | 0.737 | 0.677-0.797 |
| 2-Chlorotoluene | 15.52 | 10.58 | 1.467 | ok | 1.466 | 1.406-1.526 |
| Carbon tetrachloride | 4.50 | 3.34 | 1.347 | ok | 1.348 | 1.288-1.408 |
| Cyclohexane | 4.60 | 4.73 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.85 | 3.34 | 0.853 | ok | 0.854 | 0.794-0.914 |
| 1,1-Dichloroethylene | 2.38 | 3.34 | 0.713 | ok | 0.713 | 0.653-0.773 |
| 1,2-Dibromoethane (EDB) | 8.53 | 4.73 | 1.803 | ok | 1.803 | 1.743-1.863 |
| 1,2-Dichloroethane | 3.87 | 3.34 | 1.159 | ok | 1.158 | 1.098-1.218 |
| 1,2-Dichloropropane | 5.10 | 4.73 | 1.078 | ok | 1.078 | 1.018-1.138 |
| 1,3-Dichloropropane | 7.67 | 4.73 | 1.622 | ok | 1.623 | 1.563-1.683 |
| 1,4-Dioxane | 5.43 | 4.73 | 1.148 | ok | 1.136 | 1.076-1.196 |
| Dichlorodifluoromethane | 1.73 | 3.34 | 0.518 | ok | 0.518 | 0.458-0.578 |
| Dichlorofluoromethane | 2.00 | 3.34 | 0.599 | ok | 0.599 | 0.539-0.659 |
| Dibromochloromethane | 8.18 | 4.73 | 1.729 | ok | 1.729 | 1.669-1.789 |
| Dibromomethane | 5.05 | 4.73 | 1.068 | ok | 1.068 | 1.008-1.128 |
| trans-1,2-Dichloroethylene | 2.77 | 3.34 | 0.829 | ok | 0.829 | 0.769-0.889 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.25 | 3.34 | 0.973 | ok | 0.973 | 0.913-1.033 |
| cis-1,3-Dichloropropene | 6.35 | 4.73 | 1.342 | ok | 1.341 | 1.281-1.401 |
| m-Dichlorobenzene | 16.86 | 10.58 | 1.594 | ok | 1.593 | 1.533-1.653 |
| o-Dichlorobenzene | 17.23 | 10.58 | 1.629 | ok | 1.628 | 1.568-1.688 |
| p-Dichlorobenzene | 16.95 | 10.58 | 1.602 | ok | 1.601 | 1.541-1.661 |
| trans-1,3-Dichloropropene | 7.06 | 4.73 | 1.493 | ok | 1.492 | 1.432-1.552 |
| Di-Isopropyl ether | 3.40 | 3.34 | 1.018 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.88 | 4.73 | 1.032 | ok | 1.030 | 0.970-1.090 |
| 2,4-Dimethylpentane | 3.96 | 3.34 | 1.186 | ok | 1.186 | 1.126-1.246 |
| Ethanol | 2.01 | 3.34 | 0.602 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.57 | 10.58 | 1.094 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.42 | 3.34 | 1.024 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.24 | 4.73 | 1.108 | ok | 1.106 | 1.046-1.166 |
| 4-Ethyltoluene | 16.20 | 10.58 | 1.531 | ok | 1.531 | 1.471-1.591 |
| Freon 113 | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Freon 114 | 1.80 | 3.34 | 0.539 | ok | 0.539 | 0.479-0.599 |
| Freon 123 | 2.11 | 3.34 | 0.632 | ok | 0.634 | 0.574-0.694 |
| Freon 123A | 2.13 | 3.34 | 0.638 | ok | 0.638 | 0.578-0.698 |
| Freon 142B | 1.77 | 3.34 | 0.530 | ok | 0.530 | 0.470-0.590 |
| Freon 152A | 1.69 | 3.34 | 0.506 | ok | 0.506 | 0.446-0.566 |
| Heptane | 5.79 | 4.73 | 1.224 | ok | 1.222 | 1.162-1.282 |
| Hexachlorobutadiene | 18.78 | 10.58 | 1.775 | ok | 1.774 | 1.714-1.834 |
| Hexachloroethane | 17.77 | 10.58 | 1.680 | ok | 1.678 | 1.618-1.738 |
| Hexane | 3.39 | 3.34 | 1.015 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.24 | 4.73 | 1.742 | ok | 1.737 | 1.677-1.797 |
| Iodomethane | 2.36 | 3.34 | 0.707 | ok | 0.706 | 0.646-0.766 |
| Isopropylbenzene | 14.50 | 10.58 | 1.371 | ok | 1.370 | 1.310-1.430 |
| Isopropyl Alcohol | 2.21 | 3.34 | 0.662 | ok | 0.662 | 0.602-0.722 |
| p-Isopropyltoluene | 17.24 | 10.58 | 1.629 | ok | 1.629 | 1.569-1.689 |
| Methylene chloride | 2.42 | 3.34 | 0.725 | ok | 0.725 | 0.665-0.785 |
| Methyl ethyl ketone | 3.05 | 3.34 | 0.913 | ok | 0.911 | 0.851-0.971 |
| Methyl Isobutyl Ketone | 6.48 | 4.73 | 1.370 | ok | 1.367 | 1.307-1.427 |
| Methyl Tert Butyl Ether | 2.89 | 3.34 | 0.865 | ok | 0.865 | 0.805-0.925 |
| Methylmethacrylate | 5.69 | 4.73 | 1.203 | ok | 1.201 | 1.141-1.261 |
| Naphthalene | 18.53 | 10.58 | 1.751 | ok | 1.750 | 1.690-1.810 |
| Nonane | 14.10 | 10.58 | 1.333 | ok | 1.331 | 1.271-1.391 |
| Octane | 9.56 | 4.73 | 2.021 | ok | 2.020 | 1.960-2.080 |
| Pentane | 2.30 | 3.34 | 0.689 | ok | 0.689 | 0.629-0.749 |
| n-Propylbenzene | 15.86 | 10.58 | 1.499 | ok | 1.498 | 1.438-1.558 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.71 | 3.34 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Styrene | 12.75 | 10.58 | 1.205 | ok | 1.204 | 1.144-1.264 |
| 1,1,1-Trichloroethane | 4.05 | 3.34 | 1.213 | ok | 1.212 | 1.152-1.272 |
| 1,1,1,2-Tetrachloroethane | 10.68 | 10.58 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.99 | 10.58 | 1.228 | ok | 1.227 | 1.167-1.287 |
| 1,1,2-Trichloroethane | 7.24 | 4.73 | 1.531 | ok | 1.528 | 1.468-1.588 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.58 | 1.748 | ok | 1.746 | 1.686-1.806 |
| 1,2,3-Trichloropropane | 13.26 | 10.58 | 1.253 | ok | 1.253 | 1.193-1.313 |
| 1,2,3-Trimethylbenzene | 17.18 | 10.58 | 1.624 | ok | 1.623 | 1.563-1.683 |
| 1,2,4-Trimethylbenzene | 16.80 | 10.58 | 1.588 | ok | 1.587 | 1.527-1.647 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.58 | 1.545 | ok | 1.545 | 1.485-1.605 |
| 2,2,4-Trimethylpentane | 5.45 | 4.73 | 1.152 | ok | 1.151 | 1.091-1.211 |
| Tertiary Butyl Alcohol | 2.41 | 3.34 | 0.722 | ok | 0.719 | 0.659-0.779 |
| Tetrachloroethylene | 9.41 | 4.73 | 1.989 | ok | 1.989 | 1.929-2.049 |
| Tetrahydrofuran | 3.67 | 3.34 | 1.099 | ok | 1.094 | 1.034-1.154 |
| Toluene | 7.62 | 4.73 | 1.611 | ok | 1.609 | 1.549-1.669 |
| Trichloroethylene | 5.35 | 4.73 | 1.131 | ok | 1.130 | 1.070-1.190 |
| Trichlorofluoromethane | 2.19 | 3.34 | 0.656 | ok | 0.656 | 0.596-0.716 |
| Vinyl chloride | 1.83 | 3.34 | 0.548 | ok | 0.548 | 0.488-0.608 |
| Vinyl Acetate | 2.93 | 3.34 | 0.877 | ok | 0.877 | 0.817-0.937 |
| m,p-Xylene | 12.01 | 10.58 | 1.135 | ok | 1.135 | 1.075-1.195 |
| o-Xylene | 12.96 | 10.58 | 1.225 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.34 | ok | 3.34 | 3.01-3.67 | 46339 | ok | 48058 | 28835-67281 |
| 1,4-Difluorobenzene | 4.73 | ok | 4.73 | 4.40-5.06 | 232045 | ok | 240724 | 144434-337014 |
| Chlorobenzene-D5 | 10.58 | ok | 10.59 | 10.26-10.92 | 202916 | ok | 213567 | 128140-298994 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.14 | 3.34 | 0.641 | ok | 0.641 | 0.581-0.701 |
| Acrolein | 2.10 | 3.34 | 0.629 | ok | 0.629 | 0.569-0.689 |
| Acrylonitrile | 2.27 | 3.34 | 0.680 | ok | 0.680 | 0.620-0.740 |
| Acetonitrile | 2.07 | 3.34 | 0.620 | ok | 0.618 | 0.558-0.678 |
| 1,3-Butadiene | 1.86 | 3.34 | 0.557 | ok | 0.559 | 0.499-0.619 |
| Benzene | 4.38 | 3.34 | 1.311 | ok | 1.312 | 1.252-1.372 |
| Bromobenzene | 14.37 | 10.59 | 1.357 | ok | 1.358 | 1.298-1.418 |
| Bromodichloromethane | 5.30 | 4.73 | 1.121 | ok | 1.119 | 1.059-1.179 |
| Bromoform | 11.82 | 10.59 | 1.116 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.93 | 3.34 | 0.578 | ok | 0.579 | 0.519-0.639 |
| Bromoethene | 2.07 | 3.34 | 0.620 | ok | 0.620 | 0.560-0.680 |
| n-Butane | 1.88 | 3.34 | 0.563 | ok | 0.563 | 0.503-0.623 |
| Benzyl Chloride | 16.89 | 10.59 | 1.595 | ok | 1.595 | 1.535-1.655 |
| n-Butylbenzene | 17.59 | 10.59 | 1.661 | ok | 1.661 | 1.601-1.721 |
| sec-Butylbenzene | 17.07 | 10.59 | 1.612 | ok | 1.613 | 1.553-1.673 |
| tert-Butylbenzene | 16.80 | 10.59 | 1.586 | ok | 1.587 | 1.527-1.647 |
| Carbon disulfide | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Chlorobenzene | 10.66 | 10.59 | 1.007 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.71 | 3.34 | 0.512 | ok | 0.511 | 0.451-0.571 |
| Chloroethane | 1.98 | 3.34 | 0.593 | ok | 0.593 | 0.533-0.653 |
| Chlorotrifluoroethene | 1.71 | 3.34 | 0.512 | ok | 0.513 | 0.453-0.573 |
| Chloroform | 3.42 | 3.34 | 1.024 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.77 | 3.34 | 0.530 | ok | 0.531 | 0.471-0.591 |
| 3-Chloropropene | 2.46 | 3.34 | 0.737 | ok | 0.737 | 0.677-0.797 |
| 2-Chlorotoluene | 15.52 | 10.59 | 1.466 | ok | 1.466 | 1.406-1.526 |
| Carbon tetrachloride | 4.50 | 3.34 | 1.347 | ok | 1.348 | 1.288-1.408 |
| Cyclohexane | 4.60 | 4.73 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.85 | 3.34 | 0.853 | ok | 0.854 | 0.794-0.914 |
| 1,1-Dichloroethylene | 2.38 | 3.34 | 0.713 | ok | 0.713 | 0.653-0.773 |
| 1,2-Dibromoethane (EDB) | 8.54 | 4.73 | 1.805 | ok | 1.803 | 1.743-1.863 |
| 1,2-Dichloroethane | 3.86 | 3.34 | 1.156 | ok | 1.158 | 1.098-1.218 |
| 1,2-Dichloropropane | 5.10 | 4.73 | 1.078 | ok | 1.078 | 1.018-1.138 |
| 1,3-Dichloropropane | 7.68 | 4.73 | 1.624 | ok | 1.623 | 1.563-1.683 |
| 1,4-Dioxane | 5.40 | 4.73 | 1.142 | ok | 1.136 | 1.076-1.196 |
| Dichlorodifluoromethane | 1.73 | 3.34 | 0.518 | ok | 0.518 | 0.458-0.578 |
| Dichlorofluoromethane | 2.00 | 3.34 | 0.599 | ok | 0.599 | 0.539-0.659 |
| Dibromochloromethane | 8.19 | 4.73 | 1.732 | ok | 1.729 | 1.669-1.789 |
| Dibromomethane | 5.05 | 4.73 | 1.068 | ok | 1.068 | 1.008-1.128 |
| trans-1,2-Dichloroethylene | 2.77 | 3.34 | 0.829 | ok | 0.829 | 0.769-0.889 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.25 | 3.34 | 0.973 | ok | 0.973 | 0.913-1.033 |
| cis-1,3-Dichloropropene | 6.35 | 4.73 | 1.342 | ok | 1.341 | 1.281-1.401 |
| m-Dichlorobenzene | 16.86 | 10.59 | 1.592 | ok | 1.593 | 1.533-1.653 |
| o-Dichlorobenzene | 17.23 | 10.59 | 1.627 | ok | 1.628 | 1.568-1.688 |
| p-Dichlorobenzene | 16.94 | 10.59 | 1.600 | ok | 1.601 | 1.541-1.661 |
| trans-1,3-Dichloropropene | 7.06 | 4.73 | 1.493 | ok | 1.492 | 1.432-1.552 |
| Di-Isopropyl ether | 3.40 | 3.34 | 1.018 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.87 | 4.73 | 1.030 | ok | 1.030 | 0.970-1.090 |
| 2,4-Dimethylpentane | 3.96 | 3.34 | 1.186 | ok | 1.186 | 1.126-1.246 |
| Ethanol | 2.01 | 3.34 | 0.602 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.56 | 10.59 | 1.092 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.41 | 3.34 | 1.021 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.24 | 4.73 | 1.108 | ok | 1.106 | 1.046-1.166 |
| 4-Ethyltoluene | 16.20 | 10.59 | 1.530 | ok | 1.531 | 1.471-1.591 |
| Freon 113 | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Freon 114 | 1.80 | 3.34 | 0.539 | ok | 0.539 | 0.479-0.599 |
| Freon 123 | 2.12 | 3.34 | 0.635 | ok | 0.634 | 0.574-0.694 |
| Freon 123A | 2.13 | 3.34 | 0.638 | ok | 0.638 | 0.578-0.698 |
| Freon 142B | 1.77 | 3.34 | 0.530 | ok | 0.530 | 0.470-0.590 |
| Freon 152A | 1.69 | 3.34 | 0.506 | ok | 0.506 | 0.446-0.566 |
| Heptane | 5.78 | 4.73 | 1.222 | ok | 1.222 | 1.162-1.282 |
| Hexachlorobutadiene | 18.78 | 10.59 | 1.773 | ok | 1.774 | 1.714-1.834 |
| Hexachloroethane | 17.76 | 10.59 | 1.677 | ok | 1.678 | 1.618-1.738 |
| Hexane | 3.39 | 3.34 | 1.015 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.24 | 4.73 | 1.742 | ok | 1.737 | 1.677-1.797 |
| Iodomethane | 2.35 | 3.34 | 0.704 | ok | 0.706 | 0.646-0.766 |
| Isopropylbenzene | 14.51 | 10.59 | 1.370 | ok | 1.370 | 1.310-1.430 |
| Isopropyl Alcohol | 2.21 | 3.34 | 0.662 | ok | 0.662 | 0.602-0.722 |
| p-Isopropyltoluene | 17.24 | 10.59 | 1.628 | ok | 1.629 | 1.569-1.689 |
| Methylene chloride | 2.42 | 3.34 | 0.725 | ok | 0.725 | 0.665-0.785 |
| Methyl ethyl ketone | 3.05 | 3.34 | 0.913 | ok | 0.911 | 0.851-0.971 |
| Methyl Isobutyl Ketone | 6.49 | 4.73 | 1.372 | ok | 1.367 | 1.307-1.427 |
| Methyl Tert Butyl Ether | 2.89 | 3.34 | 0.865 | ok | 0.865 | 0.805-0.925 |
| Methylmethacrylate | 5.69 | 4.73 | 1.203 | ok | 1.201 | 1.141-1.261 |
| Naphthalene | 18.53 | 10.59 | 1.750 | ok | 1.750 | 1.690-1.810 |
| Nonane | 14.09 | 10.59 | 1.331 | ok | 1.331 | 1.271-1.391 |
| Octane | 9.55 | 4.73 | 2.019 | ok | 2.020 | 1.960-2.080 |
| Pentane | 2.30 | 3.34 | 0.689 | ok | 0.689 | 0.629-0.749 |
| n-Propylbenzene | 15.86 | 10.59 | 1.498 | ok | 1.498 | 1.438-1.558 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.71 | 3.34 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Styrene | 12.74 | 10.59 | 1.203 | ok | 1.204 | 1.144-1.264 |
| 1,1,1-Trichloroethane | 4.04 | 3.34 | 1.210 | ok | 1.212 | 1.152-1.272 |
| 1,1,1,2-Tetrachloroethane | 10.68 | 10.59 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.98 | 10.59 | 1.226 | ok | 1.227 | 1.167-1.287 |
| 1,1,2-Trichloroethane | 7.24 | 4.73 | 1.531 | ok | 1.528 | 1.468-1.588 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.59 | 1.746 | ok | 1.746 | 1.686-1.806 |
| 1,2,3-Trichloropropane | 13.27 | 10.59 | 1.253 | ok | 1.253 | 1.193-1.313 |
| 1,2,3-Trimethylbenzene | 17.18 | 10.59 | 1.622 | ok | 1.623 | 1.563-1.683 |
| 1,2,4-Trimethylbenzene | 16.80 | 10.59 | 1.586 | ok | 1.587 | 1.527-1.647 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.59 | 1.544 | ok | 1.545 | 1.485-1.605 |
| 2,2,4-Trimethylpentane | 5.44 | 4.73 | 1.150 | ok | 1.151 | 1.091-1.211 |
| Tertiary Butyl Alcohol | 2.40 | 3.34 | 0.719 | ok | 0.719 | 0.659-0.779 |
| Tetrachloroethylene | 9.41 | 4.73 | 1.989 | ok | 1.989 | 1.929-2.049 |
| Tetrahydrofuran | 3.66 | 3.34 | 1.096 | ok | 1.094 | 1.034-1.154 |
| Toluene | 7.61 | 4.73 | 1.609 | ok | 1.609 | 1.549-1.669 |
| Trichloroethylene | 5.34 | 4.73 | 1.129 | ok | 1.130 | 1.070-1.190 |
| Trichlorofluoromethane | 2.19 | 3.34 | 0.656 | ok | 0.656 | 0.596-0.716 |
| Vinyl chloride | 1.83 | 3.34 | 0.548 | ok | 0.548 | 0.488-0.608 |
| Vinyl Acetate | 2.93 | 3.34 | 0.877 | ok | 0.877 | 0.817-0.937 |
| m,p-Xylene | 12.01 | 10.59 | 1.134 | ok | 1.135 | 1.075-1.195 |
| o-Xylene | 12.96 | 10.59 | 1.224 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.34 | ok | 3.34 | 3.01-3.67 | 43611 | ok | 48058 | 28835-67281 |
| 1,4-Difluorobenzene | 4.73 | ok | 4.73 | 4.40-5.06 | 212847 | ok | 240724 | 144434-337014 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 201898 | ok | 213567 | 128140-298994 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.14 | 3.34 | 0.641 | ok | 0.641 | 0.581-0.701 |
| Acrolein | 2.10 | 3.34 | 0.629 | ok | 0.629 | 0.569-0.689 |
| Acrylonitrile | 2.27 | 3.34 | 0.680 | ok | 0.680 | 0.620-0.740 |
| Acetonitrile | 2.06 | 3.34 | 0.617 | ok | 0.618 | 0.558-0.678 |
| 1,3-Butadiene | 1.87 | 3.34 | 0.560 | ok | 0.559 | 0.499-0.619 |
| Benzene | 4.38 | 3.34 | 1.311 | ok | 1.312 | 1.252-1.372 |
| Bromobenzene | 14.37 | 10.58 | 1.358 | ok | 1.358 | 1.298-1.418 |
| Bromodichloromethane | 5.29 | 4.73 | 1.118 | ok | 1.119 | 1.059-1.179 |
| Bromoform | 11.82 | 10.58 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.93 | 3.34 | 0.578 | ok | 0.579 | 0.519-0.639 |
| Bromoethene | 2.07 | 3.34 | 0.620 | ok | 0.620 | 0.560-0.680 |
| n-Butane | 1.88 | 3.34 | 0.563 | ok | 0.563 | 0.503-0.623 |
| Benzyl Chloride | 16.89 | 10.58 | 1.596 | ok | 1.595 | 1.535-1.655 |
| n-Butylbenzene | 17.59 | 10.58 | 1.663 | ok | 1.661 | 1.601-1.721 |
| sec-Butylbenzene | 17.07 | 10.58 | 1.613 | ok | 1.613 | 1.553-1.673 |
| tert-Butylbenzene | 16.80 | 10.58 | 1.588 | ok | 1.587 | 1.527-1.647 |
| Carbon disulfide | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Chlorobenzene | 10.66 | 10.58 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.70 | 3.34 | 0.509 | ok | 0.511 | 0.451-0.571 |
| Chloroethane | 1.98 | 3.34 | 0.593 | ok | 0.593 | 0.533-0.653 |
| Chlorotrifluoroethene | 1.71 | 3.34 | 0.512 | ok | 0.513 | 0.453-0.573 |
| Chloroform | 3.42 | 3.34 | 1.024 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.77 | 3.34 | 0.530 | ok | 0.531 | 0.471-0.591 |
| 3-Chloropropene | 2.46 | 3.34 | 0.737 | ok | 0.737 | 0.677-0.797 |
| 2-Chlorotoluene | 15.52 | 10.58 | 1.467 | ok | 1.466 | 1.406-1.526 |
| Carbon tetrachloride | 4.50 | 3.34 | 1.347 | ok | 1.348 | 1.288-1.408 |
| Cyclohexane | 4.60 | 4.73 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.85 | 3.34 | 0.853 | ok | 0.854 | 0.794-0.914 |
| 1,1-Dichloroethylene | 2.38 | 3.34 | 0.713 | ok | 0.713 | 0.653-0.773 |
| 1,2-Dibromoethane (EDB) | 8.53 | 4.73 | 1.803 | ok | 1.803 | 1.743-1.863 |
| 1,2-Dichloroethane | 3.87 | 3.34 | 1.159 | ok | 1.158 | 1.098-1.218 |
| 1,2-Dichloropropane | 5.10 | 4.73 | 1.078 | ok | 1.078 | 1.018-1.138 |
| 1,3-Dichloropropane | 7.68 | 4.73 | 1.624 | ok | 1.623 | 1.563-1.683 |
| 1,4-Dioxane | 5.37 | 4.73 | 1.135 | ok | 1.136 | 1.076-1.196 |
| Dichlorodifluoromethane | 1.73 | 3.34 | 0.518 | ok | 0.518 | 0.458-0.578 |
| Dichlorofluoromethane | 2.00 | 3.34 | 0.599 | ok | 0.599 | 0.539-0.659 |
| Dibromochloromethane | 8.18 | 4.73 | 1.729 | ok | 1.729 | 1.669-1.789 |
| Dibromomethane | 5.06 | 4.73 | 1.070 | ok | 1.068 | 1.008-1.128 |
| trans-1,2-Dichloroethylene | 2.77 | 3.34 | 0.829 | ok | 0.829 | 0.769-0.889 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.25 | 3.34 | 0.973 | ok | 0.973 | 0.913-1.033 |
| cis-1,3-Dichloropropene | 6.35 | 4.73 | 1.342 | ok | 1.341 | 1.281-1.401 |
| m-Dichlorobenzene | 16.86 | 10.58 | 1.594 | ok | 1.593 | 1.533-1.653 |
| o-Dichlorobenzene | 17.23 | 10.58 | 1.629 | ok | 1.628 | 1.568-1.688 |
| p-Dichlorobenzene | 16.95 | 10.58 | 1.602 | ok | 1.601 | 1.541-1.661 |
| trans-1,3-Dichloropropene | 7.06 | 4.73 | 1.493 | ok | 1.492 | 1.432-1.552 |
| Di-Isopropyl ether | 3.40 | 3.34 | 1.018 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.88 | 4.73 | 1.032 | ok | 1.030 | 0.970-1.090 |
| 2,4-Dimethylpentane | 3.96 | 3.34 | 1.186 | ok | 1.186 | 1.126-1.246 |
| Ethanol | 2.01 | 3.34 | 0.602 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.57 | 10.58 | 1.094 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.40 | 3.34 | 1.018 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.23 | 4.73 | 1.106 | ok | 1.106 | 1.046-1.166 |
| 4-Ethyltoluene | 16.20 | 10.58 | 1.531 | ok | 1.531 | 1.471-1.591 |
| Freon 113 | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Freon 114 | 1.80 | 3.34 | 0.539 | ok | 0.539 | 0.479-0.599 |
| Freon 123 | 2.12 | 3.34 | 0.635 | ok | 0.634 | 0.574-0.694 |
| Freon 123A | 2.13 | 3.34 | 0.638 | ok | 0.638 | 0.578-0.698 |
| Freon 142B | 1.77 | 3.34 | 0.530 | ok | 0.530 | 0.470-0.590 |
| Freon 152A | 1.69 | 3.34 | 0.506 | ok | 0.506 | 0.446-0.566 |
| Heptane | 5.78 | 4.73 | 1.222 | ok | 1.222 | 1.162-1.282 |
| Hexachlorobutadiene | 18.78 | 10.58 | 1.775 | ok | 1.774 | 1.714-1.834 |
| Hexachloroethane | 17.76 | 10.58 | 1.679 | ok | 1.678 | 1.618-1.738 |
| Hexane | 3.40 | 3.34 | 1.018 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.21 | 4.73 | 1.736 | ok | 1.737 | 1.677-1.797 |
| Iodomethane | 2.36 | 3.34 | 0.707 | ok | 0.706 | 0.646-0.766 |
| Isopropylbenzene | 14.50 | 10.58 | 1.371 | ok | 1.370 | 1.310-1.430 |
| Isopropyl Alcohol | 2.21 | 3.34 | 0.662 | ok | 0.662 | 0.602-0.722 |
| p-Isopropyltoluene | 17.25 | 10.58 | 1.630 | ok | 1.629 | 1.569-1.689 |
| Methylene chloride | 2.42 | 3.34 | 0.725 | ok | 0.725 | 0.665-0.785 |
| Methyl ethyl ketone | 3.04 | 3.34 | 0.910 | ok | 0.911 | 0.851-0.971 |
| Methyl Isobutyl Ketone | 6.46 | 4.73 | 1.366 | ok | 1.367 | 1.307-1.427 |
| Methyl Tert Butyl Ether | 2.89 | 3.34 | 0.865 | ok | 0.865 | 0.805-0.925 |
| Methylmethacrylate | 5.68 | 4.73 | 1.201 | ok | 1.201 | 1.141-1.261 |
| Naphthalene | 18.53 | 10.58 | 1.751 | ok | 1.750 | 1.690-1.810 |
| Nonane | 14.09 | 10.58 | 1.332 | ok | 1.331 | 1.271-1.391 |
| Octane | 9.57 | 4.73 | 2.023 | ok | 2.020 | 1.960-2.080 |
| Pentane | 2.30 | 3.34 | 0.689 | ok | 0.689 | 0.629-0.749 |
| n-Propylbenzene | 15.86 | 10.58 | 1.499 | ok | 1.498 | 1.438-1.558 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.71 | 3.34 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Styrene | 12.75 | 10.58 | 1.205 | ok | 1.204 | 1.144-1.264 |
| 1,1,1-Trichloroethane | 4.05 | 3.34 | 1.213 | ok | 1.212 | 1.152-1.272 |
| 1,1,1,2-Tetrachloroethane | 10.68 | 10.58 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.98 | 10.58 | 1.227 | ok | 1.227 | 1.167-1.287 |
| 1,1,2-Trichloroethane | 7.23 | 4.73 | 1.529 | ok | 1.528 | 1.468-1.588 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.58 | 1.748 | ok | 1.746 | 1.686-1.806 |
| 1,2,3-Trichloropropane | 13.26 | 10.58 | 1.253 | ok | 1.253 | 1.193-1.313 |
| 1,2,3-Trimethylbenzene | 17.18 | 10.58 | 1.624 | ok | 1.623 | 1.563-1.683 |
| 1,2,4-Trimethylbenzene | 16.80 | 10.58 | 1.588 | ok | 1.587 | 1.527-1.647 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.58 | 1.545 | ok | 1.545 | 1.485-1.605 |
| 2,2,4-Trimethylpentane | 5.45 | 4.73 | 1.152 | ok | 1.151 | 1.091-1.211 |
| Tertiary Butyl Alcohol | 2.40 | 3.34 | 0.719 | ok | 0.719 | 0.659-0.779 |
| Tetrachloroethylene | 9.42 | 4.73 | 1.992 | ok | 1.989 | 1.929-2.049 |
| Tetrahydrofuran | 3.65 | 3.34 | 1.093 | ok | 1.094 | 1.034-1.154 |
| Toluene | 7.62 | 4.73 | 1.611 | ok | 1.609 | 1.549-1.669 |
| Trichloroethylene | 5.35 | 4.73 | 1.131 | ok | 1.130 | 1.070-1.190 |
| Trichlorofluoromethane | 2.19 | 3.34 | 0.656 | ok | 0.656 | 0.596-0.716 |
| Vinyl chloride | 1.83 | 3.34 | 0.548 | ok | 0.548 | 0.488-0.608 |
| Vinyl Acetate | 2.93 | 3.34 | 0.877 | ok | 0.877 | 0.817-0.937 |
| m,p-Xylene | 12.01 | 10.58 | 1.135 | ok | 1.135 | 1.075-1.195 |
| o-Xylene | 12.96 | 10.58 | 1.225 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.34 | ok | 3.34 | 3.01-3.67 | 48052 | ok | 48058 | 28835-67281 |
| 1,4-Difluorobenzene | 4.73 | ok | 4.73 | 4.40-5.06 | 238668 | ok | 240724 | 144434-337014 |
| Chlorobenzene-D5 | 10.58 | ok | 10.59 | 10.26-10.92 | 209355 | ok | 213567 | 128140-298994 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.14 | 3.34 | 0.641 | ok | 0.641 | 0.581-0.701 |
| Acrolein | 2.10 | 3.34 | 0.629 | ok | 0.629 | 0.569-0.689 |
| Acrylonitrile | 2.27 | 3.34 | 0.680 | ok | 0.680 | 0.620-0.740 |
| Acetonitrile | 2.06 | 3.34 | 0.617 | ok | 0.618 | 0.558-0.678 |
| 1,3-Butadiene | 1.87 | 3.34 | 0.560 | ok | 0.559 | 0.499-0.619 |
| Benzene | 4.38 | 3.34 | 1.311 | ok | 1.312 | 1.252-1.372 |
| Bromobenzene | 14.37 | 10.59 | 1.357 | ok | 1.358 | 1.298-1.418 |
| Bromodichloromethane | 5.29 | 4.73 | 1.118 | ok | 1.119 | 1.059-1.179 |
| Bromoform | 11.83 | 10.59 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.93 | 3.34 | 0.578 | ok | 0.579 | 0.519-0.639 |
| Bromoethene | 2.07 | 3.34 | 0.620 | ok | 0.620 | 0.560-0.680 |
| n-Butane | 1.88 | 3.34 | 0.563 | ok | 0.563 | 0.503-0.623 |
| Benzyl Chloride | 16.89 | 10.59 | 1.595 | ok | 1.595 | 1.535-1.655 |
| n-Butylbenzene | 17.58 | 10.59 | 1.660 | ok | 1.661 | 1.601-1.721 |
| sec-Butylbenzene | 17.07 | 10.59 | 1.612 | ok | 1.613 | 1.553-1.673 |
| tert-Butylbenzene | 16.80 | 10.59 | 1.586 | ok | 1.587 | 1.527-1.647 |
| Carbon disulfide | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Chlorobenzene | 10.67 | 10.59 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.71 | 3.34 | 0.512 | ok | 0.511 | 0.451-0.571 |
| Chloroethane | 1.98 | 3.34 | 0.593 | ok | 0.593 | 0.533-0.653 |
| Chlorotrifluoroethene | 1.72 | 3.34 | 0.515 | ok | 0.513 | 0.453-0.573 |
| Chloroform | 3.42 | 3.34 | 1.024 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.77 | 3.34 | 0.530 | ok | 0.531 | 0.471-0.591 |
| 3-Chloropropene | 2.46 | 3.34 | 0.737 | ok | 0.737 | 0.677-0.797 |
| 2-Chlorotoluene | 15.52 | 10.59 | 1.466 | ok | 1.466 | 1.406-1.526 |
| Carbon tetrachloride | 4.51 | 3.34 | 1.350 | ok | 1.348 | 1.288-1.408 |
| Cyclohexane | 4.61 | 4.73 | 0.975 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.85 | 3.34 | 0.853 | ok | 0.854 | 0.794-0.914 |
| 1,1-Dichloroethylene | 2.38 | 3.34 | 0.713 | ok | 0.713 | 0.653-0.773 |
| 1,2-Dibromoethane (EDB) | 8.53 | 4.73 | 1.803 | ok | 1.803 | 1.743-1.863 |
| 1,2-Dichloroethane | 3.87 | 3.34 | 1.159 | ok | 1.158 | 1.098-1.218 |
| 1,2-Dichloropropane | 5.10 | 4.73 | 1.078 | ok | 1.078 | 1.018-1.138 |
| 1,3-Dichloropropane | 7.68 | 4.73 | 1.624 | ok | 1.623 | 1.563-1.683 |
| 1,4-Dioxane | 5.36 | 4.73 | 1.133 | ok | 1.136 | 1.076-1.196 |
| Dichlorodifluoromethane | 1.73 | 3.34 | 0.518 | ok | 0.518 | 0.458-0.578 |
| Dichlorofluoromethane | 2.00 | 3.34 | 0.599 | ok | 0.599 | 0.539-0.659 |
| Dibromochloromethane | 8.18 | 4.73 | 1.729 | ok | 1.729 | 1.669-1.789 |
| Dibromomethane | 5.06 | 4.73 | 1.070 | ok | 1.068 | 1.008-1.128 |
| trans-1,2-Dichloroethylene | 2.77 | 3.34 | 0.829 | ok | 0.829 | 0.769-0.889 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.25 | 3.34 | 0.973 | ok | 0.973 | 0.913-1.033 |
| cis-1,3-Dichloropropene | 6.35 | 4.73 | 1.342 | ok | 1.341 | 1.281-1.401 |
| m-Dichlorobenzene | 16.86 | 10.59 | 1.592 | ok | 1.593 | 1.533-1.653 |
| o-Dichlorobenzene | 17.23 | 10.59 | 1.627 | ok | 1.628 | 1.568-1.688 |
| p-Dichlorobenzene | 16.95 | 10.59 | 1.601 | ok | 1.601 | 1.541-1.661 |
| trans-1,3-Dichloropropene | 7.06 | 4.73 | 1.493 | ok | 1.492 | 1.432-1.552 |
| Di-Isopropyl ether | 3.40 | 3.34 | 1.018 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.88 | 4.73 | 1.032 | ok | 1.030 | 0.970-1.090 |
| 2,4-Dimethylpentane | 3.96 | 3.34 | 1.186 | ok | 1.186 | 1.126-1.246 |
| Ethanol | 2.01 | 3.34 | 0.602 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.57 | 10.59 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.40 | 3.34 | 1.018 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.23 | 4.73 | 1.106 | ok | 1.106 | 1.046-1.166 |
| 4-Ethyltoluene | 16.20 | 10.59 | 1.530 | ok | 1.531 | 1.471-1.591 |
| Freon 113 | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Freon 114 | 1.80 | 3.34 | 0.539 | ok | 0.539 | 0.479-0.599 |
| Freon 123 | 2.12 | 3.34 | 0.635 | ok | 0.634 | 0.574-0.694 |
| Freon 123A | 2.13 | 3.34 | 0.638 | ok | 0.638 | 0.578-0.698 |
| Freon 142B | 1.77 | 3.34 | 0.530 | ok | 0.530 | 0.470-0.590 |
| Freon 152A | 1.69 | 3.34 | 0.506 | ok | 0.506 | 0.446-0.566 |
| Heptane | 5.79 | 4.73 | 1.224 | ok | 1.222 | 1.162-1.282 |
| Hexachlorobutadiene | 18.78 | 10.59 | 1.773 | ok | 1.774 | 1.714-1.834 |
| Hexachloroethane | 17.76 | 10.59 | 1.677 | ok | 1.678 | 1.618-1.738 |
| Hexane | 3.40 | 3.34 | 1.018 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.21 | 4.73 | 1.736 | ok | 1.737 | 1.677-1.797 |
| Iodomethane | 2.36 | 3.34 | 0.707 | ok | 0.706 | 0.646-0.766 |
| Isopropylbenzene | 14.50 | 10.59 | 1.369 | ok | 1.370 | 1.310-1.430 |
| Isopropyl Alcohol | 2.21 | 3.34 | 0.662 | ok | 0.662 | 0.602-0.722 |
| p-Isopropyltoluene | 17.24 | 10.59 | 1.628 | ok | 1.629 | 1.569-1.689 |
| Methylene chloride | 2.42 | 3.34 | 0.725 | ok | 0.725 | 0.665-0.785 |
| Methyl ethyl ketone | 3.04 | 3.34 | 0.910 | ok | 0.911 | 0.851-0.971 |
| Methyl Isobutyl Ketone | 6.45 | 4.73 | 1.364 | ok | 1.367 | 1.307-1.427 |
| Methyl Tert Butyl Ether | 2.89 | 3.34 | 0.865 | ok | 0.865 | 0.805-0.925 |
| Methylmethacrylate | 5.68 | 4.73 | 1.201 | ok | 1.201 | 1.141-1.261 |
| Naphthalene | 18.53 | 10.59 | 1.750 | ok | 1.750 | 1.690-1.810 |
| Nonane | 14.09 | 10.59 | 1.331 | ok | 1.331 | 1.271-1.391 |
| Octane | 9.56 | 4.73 | 2.021 | ok | 2.020 | 1.960-2.080 |
| Pentane | 2.30 | 3.34 | 0.689 | ok | 0.689 | 0.629-0.749 |
| n-Propylbenzene | 15.86 | 10.59 | 1.498 | ok | 1.498 | 1.438-1.558 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.71 | 3.34 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Styrene | 12.75 | 10.59 | 1.204 | ok | 1.204 | 1.144-1.264 |
| 1,1,1-Trichloroethane | 4.05 | 3.34 | 1.213 | ok | 1.212 | 1.152-1.272 |
| 1,1,1,2-Tetrachloroethane | 10.68 | 10.59 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.98 | 10.59 | 1.226 | ok | 1.227 | 1.167-1.287 |
| 1,1,2-Trichloroethane | 7.23 | 4.73 | 1.529 | ok | 1.528 | 1.468-1.588 |
| 1,2,4-Trichlorobenzene | 18.48 | 10.59 | 1.745 | ok | 1.746 | 1.686-1.806 |
| 1,2,3-Trichloropropane | 13.27 | 10.59 | 1.253 | ok | 1.253 | 1.193-1.313 |
| 1,2,3-Trimethylbenzene | 17.18 | 10.59 | 1.622 | ok | 1.623 | 1.563-1.683 |
| 1,2,4-Trimethylbenzene | 16.80 | 10.59 | 1.586 | ok | 1.587 | 1.527-1.647 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.59 | 1.544 | ok | 1.545 | 1.485-1.605 |
| 2,2,4-Trimethylpentane | 5.45 | 4.73 | 1.152 | ok | 1.151 | 1.091-1.211 |
| Tertiary Butyl Alcohol | 2.40 | 3.34 | 0.719 | ok | 0.719 | 0.659-0.779 |
| Tetrachloroethylene | 9.41 | 4.73 | 1.989 | ok | 1.989 | 1.929-2.049 |
| Tetrahydrofuran | 3.65 | 3.34 | 1.093 | ok | 1.094 | 1.034-1.154 |
| Toluene | 7.62 | 4.73 | 1.611 | ok | 1.609 | 1.549-1.669 |
| Trichloroethylene | 5.35 | 4.73 | 1.131 | ok | 1.130 | 1.070-1.190 |
| Trichlorofluoromethane | 2.19 | 3.34 | 0.656 | ok | 0.656 | 0.596-0.716 |
| Vinyl chloride | 1.83 | 3.34 | 0.548 | ok | 0.548 | 0.488-0.608 |
| Vinyl Acetate | 2.93 | 3.34 | 0.877 | ok | 0.877 | 0.817-0.937 |
| m,p-Xylene | 12.01 | 10.59 | 1.134 | ok | 1.135 | 1.075-1.195 |
| o-Xylene | 12.96 | 10.59 | 1.224 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.34 | ok | 3.34 | 3.01-3.67 | 50236 | ok | 48058 | 28835-67281 |
| 1,4-Difluorobenzene | 4.73 | ok | 4.73 | 4.40-5.06 | 248131 | ok | 240724 | 144434-337014 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 216051 | ok | 213567 | 128140-298994 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.14 | 3.34 | 0.641 | ok | 0.641 | 0.581-0.701 |
| Acrolein | 2.10 | 3.34 | 0.629 | ok | 0.629 | 0.569-0.689 |
| Acrylonitrile | 2.27 | 3.34 | 0.680 | ok | 0.680 | 0.620-0.740 |
| Acetonitrile | 2.07 | 3.34 | 0.620 | ok | 0.618 | 0.558-0.678 |
| 1,3-Butadiene | 1.87 | 3.34 | 0.560 | ok | 0.559 | 0.499-0.619 |
| Benzene | 4.38 | 3.34 | 1.311 | ok | 1.312 | 1.252-1.372 |
| Bromobenzene | 14.38 | 10.59 | 1.358 | ok | 1.358 | 1.298-1.418 |
| Bromodichloromethane | 5.30 | 4.74 | 1.118 | ok | 1.119 | 1.059-1.179 |
| Bromoform | 11.83 | 10.59 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.94 | 3.34 | 0.581 | ok | 0.579 | 0.519-0.639 |
| Bromoethene | 2.07 | 3.34 | 0.620 | ok | 0.620 | 0.560-0.680 |
| n-Butane | 1.88 | 3.34 | 0.563 | ok | 0.563 | 0.503-0.623 |
| Benzyl Chloride | 16.89 | 10.59 | 1.595 | ok | 1.595 | 1.535-1.655 |
| n-Butylbenzene | 17.59 | 10.59 | 1.661 | ok | 1.661 | 1.601-1.721 |
| sec-Butylbenzene | 17.07 | 10.59 | 1.612 | ok | 1.613 | 1.553-1.673 |
| tert-Butylbenzene | 16.80 | 10.59 | 1.586 | ok | 1.587 | 1.527-1.647 |
| Carbon disulfide | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Chlorobenzene | 10.67 | 10.59 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.71 | 3.34 | 0.512 | ok | 0.511 | 0.451-0.571 |
| Chloroethane | 1.98 | 3.34 | 0.593 | ok | 0.593 | 0.533-0.653 |
| Chlorotrifluoroethene | 1.72 | 3.34 | 0.515 | ok | 0.513 | 0.453-0.573 |
| Chloroform | 3.42 | 3.34 | 1.024 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.77 | 3.34 | 0.530 | ok | 0.531 | 0.471-0.591 |
| 3-Chloropropene | 2.46 | 3.34 | 0.737 | ok | 0.737 | 0.677-0.797 |
| 2-Chlorotoluene | 15.52 | 10.59 | 1.466 | ok | 1.466 | 1.406-1.526 |
| Carbon tetrachloride | 4.51 | 3.34 | 1.350 | ok | 1.348 | 1.288-1.408 |
| Cyclohexane | 4.61 | 4.74 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.86 | 3.34 | 0.856 | ok | 0.854 | 0.794-0.914 |
| 1,1-Dichloroethylene | 2.38 | 3.34 | 0.713 | ok | 0.713 | 0.653-0.773 |
| 1,2-Dibromoethane (EDB) | 8.54 | 4.74 | 1.802 | ok | 1.803 | 1.743-1.863 |
| 1,2-Dichloroethane | 3.87 | 3.34 | 1.159 | ok | 1.158 | 1.098-1.218 |
| 1,2-Dichloropropane | 5.10 | 4.74 | 1.076 | ok | 1.078 | 1.018-1.138 |
| 1,3-Dichloropropane | 7.68 | 4.74 | 1.620 | ok | 1.623 | 1.563-1.683 |
| 1,4-Dioxane | 5.36 | 4.74 | 1.131 | ok | 1.136 | 1.076-1.196 |
| Dichlorodifluoromethane | 1.73 | 3.34 | 0.518 | ok | 0.518 | 0.458-0.578 |
| Dichlorofluoromethane | 2.00 | 3.34 | 0.599 | ok | 0.599 | 0.539-0.659 |
| Dibromochloromethane | 8.19 | 4.74 | 1.728 | ok | 1.729 | 1.669-1.789 |
| Dibromomethane | 5.06 | 4.74 | 1.068 | ok | 1.068 | 1.008-1.128 |
| trans-1,2-Dichloroethylene | 2.77 | 3.34 | 0.829 | ok | 0.829 | 0.769-0.889 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.26 | 3.34 | 0.976 | ok | 0.973 | 0.913-1.033 |
| cis-1,3-Dichloropropene | 6.35 | 4.74 | 1.340 | ok | 1.341 | 1.281-1.401 |
| m-Dichlorobenzene | 16.87 | 10.59 | 1.593 | ok | 1.593 | 1.533-1.653 |
| o-Dichlorobenzene | 17.23 | 10.59 | 1.627 | ok | 1.628 | 1.568-1.688 |
| p-Dichlorobenzene | 16.95 | 10.59 | 1.601 | ok | 1.601 | 1.541-1.661 |
| trans-1,3-Dichloropropene | 7.07 | 4.74 | 1.492 | ok | 1.492 | 1.432-1.552 |
| Di-Isopropyl ether | 3.40 | 3.34 | 1.018 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.88 | 4.74 | 1.030 | ok | 1.030 | 0.970-1.090 |
| 2,4-Dimethylpentane | 3.96 | 3.34 | 1.186 | ok | 1.186 | 1.126-1.246 |
| Ethanol | 2.01 | 3.34 | 0.602 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.57 | 10.59 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.41 | 3.34 | 1.021 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.23 | 4.74 | 1.103 | ok | 1.106 | 1.046-1.166 |
| 4-Ethyltoluene | 16.21 | 10.59 | 1.531 | ok | 1.531 | 1.471-1.591 |
| Freon 113 | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Freon 114 | 1.80 | 3.34 | 0.539 | ok | 0.539 | 0.479-0.599 |
| Freon 123 | 2.12 | 3.34 | 0.635 | ok | 0.634 | 0.574-0.694 |
| Freon 123A | 2.13 | 3.34 | 0.638 | ok | 0.638 | 0.578-0.698 |
| Freon 142B | 1.77 | 3.34 | 0.530 | ok | 0.530 | 0.470-0.590 |
| Freon 152A | 1.69 | 3.34 | 0.506 | ok | 0.506 | 0.446-0.566 |
| Heptane | 5.79 | 4.74 | 1.222 | ok | 1.222 | 1.162-1.282 |
| Hexachlorobutadiene | 18.78 | 10.59 | 1.773 | ok | 1.774 | 1.714-1.834 |
| Hexachloroethane | 17.77 | 10.59 | 1.678 | ok | 1.678 | 1.618-1.738 |
| Hexane | 3.40 | 3.34 | 1.018 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.21 | 4.74 | 1.732 | ok | 1.737 | 1.677-1.797 |
| Iodomethane | 2.36 | 3.34 | 0.707 | ok | 0.706 | 0.646-0.766 |
| Isopropylbenzene | 14.50 | 10.59 | 1.369 | ok | 1.370 | 1.310-1.430 |
| Isopropyl Alcohol | 2.21 | 3.34 | 0.662 | ok | 0.662 | 0.602-0.722 |
| p-Isopropyltoluene | 17.25 | 10.59 | 1.629 | ok | 1.629 | 1.569-1.689 |
| Methylene chloride | 2.42 | 3.34 | 0.725 | ok | 0.725 | 0.665-0.785 |
| Methyl ethyl ketone | 3.04 | 3.34 | 0.910 | ok | 0.911 | 0.851-0.971 |
| Methyl Isobutyl Ketone | 6.46 | 4.74 | 1.363 | ok | 1.367 | 1.307-1.427 |
| Methyl Tert Butyl Ether | 2.89 | 3.34 | 0.865 | ok | 0.865 | 0.805-0.925 |
| Methylmethacrylate | 5.68 | 4.74 | 1.198 | ok | 1.201 | 1.141-1.261 |
| Naphthalene | 18.53 | 10.59 | 1.750 | ok | 1.750 | 1.690-1.810 |
| Nonane | 14.09 | 10.59 | 1.331 | ok | 1.331 | 1.271-1.391 |
| Octane | 9.56 | 4.74 | 2.017 | ok | 2.020 | 1.960-2.080 |
| Pentane | 2.30 | 3.34 | 0.689 | ok | 0.689 | 0.629-0.749 |
| n-Propylbenzene | 15.86 | 10.59 | 1.498 | ok | 1.498 | 1.438-1.558 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.71 | 3.34 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Styrene | 12.75 | 10.59 | 1.204 | ok | 1.204 | 1.144-1.264 |
| 1,1,1-Trichloroethane | 4.05 | 3.34 | 1.213 | ok | 1.212 | 1.152-1.272 |
| 1,1,1,2-Tetrachloroethane | 10.68 | 10.59 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.99 | 10.59 | 1.227 | ok | 1.227 | 1.167-1.287 |
| 1,1,2-Trichloroethane | 7.23 | 4.74 | 1.525 | ok | 1.528 | 1.468-1.588 |
| 1,2,4-Trichlorobenzene | 18.48 | 10.59 | 1.745 | ok | 1.746 | 1.686-1.806 |
| 1,2,3-Trichloropropane | 13.27 | 10.59 | 1.253 | ok | 1.253 | 1.193-1.313 |
| 1,2,3-Trimethylbenzene | 17.18 | 10.59 | 1.622 | ok | 1.623 | 1.563-1.683 |
| 1,2,4-Trimethylbenzene | 16.81 | 10.59 | 1.587 | ok | 1.587 | 1.527-1.647 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.59 | 1.544 | ok | 1.545 | 1.485-1.605 |
| 2,2,4-Trimethylpentane | 5.45 | 4.74 | 1.150 | ok | 1.151 | 1.091-1.211 |
| Tertiary Butyl Alcohol | 2.40 | 3.34 | 0.719 | ok | 0.719 | 0.659-0.779 |
| Tetrachloroethylene | 9.42 | 4.74 | 1.987 | ok | 1.989 | 1.929-2.049 |
| Tetrahydrofuran | 3.65 | 3.34 | 1.093 | ok | 1.094 | 1.034-1.154 |
| Toluene | 7.62 | 4.74 | 1.608 | ok | 1.609 | 1.549-1.669 |
| Trichloroethylene | 5.35 | 4.74 | 1.129 | ok | 1.130 | 1.070-1.190 |
| Trichlorofluoromethane | 2.19 | 3.34 | 0.656 | ok | 0.656 | 0.596-0.716 |
| Vinyl chloride | 1.83 | 3.34 | 0.548 | ok | 0.548 | 0.488-0.608 |
| Vinyl Acetate | 2.93 | 3.34 | 0.877 | ok | 0.877 | 0.817-0.937 |
| m,p-Xylene | 12.01 | 10.59 | 1.134 | ok | 1.135 | 1.075-1.195 |
| o-Xylene | 12.97 | 10.59 | 1.225 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.34 | ok | 3.34 | 3.01-3.67 | 49377 | ok | 48058 | 28835-67281 |
| 1,4-Difluorobenzene | 4.74 | ok | 4.73 | 4.40-5.06 | 249392 | ok | 240724 | 144434-337014 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 219656 | ok | 213567 | 128140-298994 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.14 | 3.34 | 0.641 | ok | 0.641 | 0.581-0.701 |
| Acrolein | 2.10 | 3.34 | 0.629 | ok | 0.629 | 0.569-0.689 |
| Acrylonitrile | 2.27 | 3.34 | 0.680 | ok | 0.680 | 0.620-0.740 |
| Acetonitrile | 2.06 | 3.34 | 0.617 | ok | 0.618 | 0.558-0.678 |
| 1,3-Butadiene | 1.86 | 3.34 | 0.557 | ok | 0.559 | 0.499-0.619 |
| Benzene | 4.38 | 3.34 | 1.311 | ok | 1.312 | 1.252-1.372 |
| Bromobenzene | 14.39 | 10.59 | 1.359 | ok | 1.358 | 1.298-1.418 |
| Bromodichloromethane | 5.30 | 4.74 | 1.118 | ok | 1.119 | 1.059-1.179 |
| Bromoform | 11.84 | 10.59 | 1.118 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.93 | 3.34 | 0.578 | ok | 0.579 | 0.519-0.639 |
| Bromoethene | 2.07 | 3.34 | 0.620 | ok | 0.620 | 0.560-0.680 |
| n-Butane | 1.88 | 3.34 | 0.563 | ok | 0.563 | 0.503-0.623 |
| Benzyl Chloride | 16.89 | 10.59 | 1.595 | ok | 1.595 | 1.535-1.655 |
| n-Butylbenzene | 17.59 | 10.59 | 1.661 | ok | 1.661 | 1.601-1.721 |
| sec-Butylbenzene | 17.07 | 10.59 | 1.612 | ok | 1.613 | 1.553-1.673 |
| tert-Butylbenzene | 16.81 | 10.59 | 1.587 | ok | 1.587 | 1.527-1.647 |
| Carbon disulfide | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Chlorobenzene | 10.67 | 10.59 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.70 | 3.34 | 0.509 | ok | 0.511 | 0.451-0.571 |
| Chloroethane | 1.98 | 3.34 | 0.593 | ok | 0.593 | 0.533-0.653 |
| Chlorotrifluoroethene | 1.71 | 3.34 | 0.512 | ok | 0.513 | 0.453-0.573 |
| Chloroform | 3.42 | 3.34 | 1.024 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.77 | 3.34 | 0.530 | ok | 0.531 | 0.471-0.591 |
| 3-Chloropropene | 2.46 | 3.34 | 0.737 | ok | 0.737 | 0.677-0.797 |
| 2-Chlorotoluene | 15.53 | 10.59 | 1.466 | ok | 1.466 | 1.406-1.526 |
| Carbon tetrachloride | 4.50 | 3.34 | 1.347 | ok | 1.348 | 1.288-1.408 |
| Cyclohexane | 4.60 | 4.74 | 0.970 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.85 | 3.34 | 0.853 | ok | 0.854 | 0.794-0.914 |
| 1,1-Dichloroethylene | 2.38 | 3.34 | 0.713 | ok | 0.713 | 0.653-0.773 |
| 1,2-Dibromoethane (EDB) | 8.55 | 4.74 | 1.804 | ok | 1.803 | 1.743-1.863 |
| 1,2-Dichloroethane | 3.87 | 3.34 | 1.159 | ok | 1.158 | 1.098-1.218 |
| 1,2-Dichloropropane | 5.10 | 4.74 | 1.076 | ok | 1.078 | 1.018-1.138 |
| 1,3-Dichloropropane | 7.69 | 4.74 | 1.622 | ok | 1.623 | 1.563-1.683 |
| 1,4-Dioxane | 5.37 | 4.74 | 1.133 | ok | 1.136 | 1.076-1.196 |
| Dichlorodifluoromethane | 1.73 | 3.34 | 0.518 | ok | 0.518 | 0.458-0.578 |
| Dichlorofluoromethane | 2.00 | 3.34 | 0.599 | ok | 0.599 | 0.539-0.659 |
| Dibromochloromethane | 8.19 | 4.74 | 1.728 | ok | 1.729 | 1.669-1.789 |
| Dibromomethane | 5.06 | 4.74 | 1.068 | ok | 1.068 | 1.008-1.128 |
| trans-1,2-Dichloroethylene | 2.77 | 3.34 | 0.829 | ok | 0.829 | 0.769-0.889 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.25 | 3.34 | 0.973 | ok | 0.973 | 0.913-1.033 |
| cis-1,3-Dichloropropene | 6.35 | 4.74 | 1.340 | ok | 1.341 | 1.281-1.401 |
| m-Dichlorobenzene | 16.87 | 10.59 | 1.593 | ok | 1.593 | 1.533-1.653 |
| o-Dichlorobenzene | 17.24 | 10.59 | 1.628 | ok | 1.628 | 1.568-1.688 |
| p-Dichlorobenzene | 16.95 | 10.59 | 1.601 | ok | 1.601 | 1.541-1.661 |
| trans-1,3-Dichloropropene | 7.07 | 4.74 | 1.492 | ok | 1.492 | 1.432-1.552 |
| Di-Isopropyl ether | 3.40 | 3.34 | 1.018 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.88 | 4.74 | 1.030 | ok | 1.030 | 0.970-1.090 |
| 2,4-Dimethylpentane | 3.96 | 3.34 | 1.186 | ok | 1.186 | 1.126-1.246 |
| Ethanol | 2.00 | 3.34 | 0.599 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.58 | 10.59 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.41 | 3.34 | 1.021 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.24 | 4.74 | 1.105 | ok | 1.106 | 1.046-1.166 |
| 4-Ethyltoluene | 16.21 | 10.59 | 1.531 | ok | 1.531 | 1.471-1.591 |
| Freon 113 | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Freon 114 | 1.80 | 3.34 | 0.539 | ok | 0.539 | 0.479-0.599 |
| Freon 123 | 2.12 | 3.34 | 0.635 | ok | 0.634 | 0.574-0.694 |
| Freon 123A | 2.13 | 3.34 | 0.638 | ok | 0.638 | 0.578-0.698 |
| Freon 142B | 1.77 | 3.34 | 0.530 | ok | 0.530 | 0.470-0.590 |
| Freon 152A | 1.70 | 3.34 | 0.509 | ok | 0.506 | 0.446-0.566 |
| Heptane | 5.79 | 4.74 | 1.222 | ok | 1.222 | 1.162-1.282 |
| Hexachlorobutadiene | 18.78 | 10.59 | 1.773 | ok | 1.774 | 1.714-1.834 |
| Hexachloroethane | 17.77 | 10.59 | 1.678 | ok | 1.678 | 1.618-1.738 |
| Hexane | 3.39 | 3.34 | 1.015 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.22 | 4.74 | 1.734 | ok | 1.737 | 1.677-1.797 |
| Iodomethane | 2.35 | 3.34 | 0.704 | ok | 0.706 | 0.646-0.766 |
| Isopropylbenzene | 14.51 | 10.59 | 1.370 | ok | 1.370 | 1.310-1.430 |
| Isopropyl Alcohol | 2.20 | 3.34 | 0.659 | ok | 0.662 | 0.602-0.722 |
| p-Isopropyltoluene | 17.25 | 10.59 | 1.629 | ok | 1.629 | 1.569-1.689 |
| Methylene chloride | 2.42 | 3.34 | 0.725 | ok | 0.725 | 0.665-0.785 |
| Methyl ethyl ketone | 3.04 | 3.34 | 0.910 | ok | 0.911 | 0.851-0.971 |
| Methyl Isobutyl Ketone | 6.46 | 4.74 | 1.363 | ok | 1.367 | 1.307-1.427 |
| Methyl Tert Butyl Ether | 2.89 | 3.34 | 0.865 | ok | 0.865 | 0.805-0.925 |
| Methylmethacrylate | 5.68 | 4.74 | 1.198 | ok | 1.201 | 1.141-1.261 |
| Naphthalene | 18.53 | 10.59 | 1.750 | ok | 1.750 | 1.690-1.810 |
| Nonane | 14.10 | 10.59 | 1.331 | ok | 1.331 | 1.271-1.391 |
| Octane | 9.57 | 4.74 | 2.019 | ok | 2.020 | 1.960-2.080 |
| Pentane | 2.30 | 3.34 | 0.689 | ok | 0.689 | 0.629-0.749 |
| n-Propylbenzene | 15.87 | 10.59 | 1.499 | ok | 1.498 | 1.438-1.558 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | Reporting this level |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.71 | 3.34 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Styrene | 12.76 | 10.59 | 1.205 | ok | 1.204 | 1.144-1.264 |
| 1,1,1-Trichloroethane | 4.05 | 3.34 | 1.213 | ok | 1.212 | 1.152-1.272 |
| 1,1,1,2-Tetrachloroethane | 10.69 | 10.59 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.00 | 10.59 | 1.228 | ok | 1.227 | 1.167-1.287 |
| 1,1,2-Trichloroethane | 7.24 | 4.74 | 1.527 | ok | 1.528 | 1.468-1.588 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.59 | 1.746 | ok | 1.746 | 1.686-1.806 |
| 1,2,3-Trichloropropane | 13.28 | 10.59 | 1.254 | ok | 1.253 | 1.193-1.313 |
| 1,2,3-Trimethylbenzene | 17.18 | 10.59 | 1.622 | ok | 1.623 | 1.563-1.683 |
| 1,2,4-Trimethylbenzene | 16.81 | 10.59 | 1.587 | ok | 1.587 | 1.527-1.647 |
| 1,3,5-Trimethylbenzene | 16.36 | 10.59 | 1.545 | ok | 1.545 | 1.485-1.605 |
| 2,2,4-Trimethylpentane | 5.45 | 4.74 | 1.150 | ok | 1.151 | 1.091-1.211 |
| Tertiary Butyl Alcohol | 2.39 | 3.34 | 0.716 | ok | 0.719 | 0.659-0.779 |
| Tetrachloroethylene | 9.42 | 4.74 | 1.987 | ok | 1.989 | 1.929-2.049 |
| Tetrahydrofuran | 3.65 | 3.34 | 1.093 | ok | 1.094 | 1.034-1.154 |
| Toluene | 7.62 | 4.74 | 1.608 | ok | 1.609 | 1.549-1.669 |
| Trichloroethylene | 5.36 | 4.74 | 1.131 | ok | 1.130 | 1.070-1.190 |
| Trichlorofluoromethane | 2.19 | 3.34 | 0.656 | ok | 0.656 | 0.596-0.716 |
| Vinyl chloride | 1.83 | 3.34 | 0.548 | ok | 0.548 | 0.488-0.608 |
| Vinyl Acetate | 2.93 | 3.34 | 0.877 | ok | 0.877 | 0.817-0.937 |
| m,p-Xylene | 12.02 | 10.59 | 1.135 | ok | 1.135 | 1.075-1.195 |
| o-Xylene | 12.97 | 10.59 | 1.225 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.34 | ok | 3.34 | 3.01-3.67 | 46967 | ok | 48058 | 28835-67281 |
| 1,4-Difluorobenzene | 4.74 | ok | 4.73 | 4.40-5.06 | 253136 | ok | 240724 | 144434-337014 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 227517 | ok | 213567 | 128140-298994 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.14 | 3.34 | 0.641 | ok | 0.641 | 0.581-0.701 |
| Acrolein | 2.10 | 3.34 | 0.629 | ok | 0.629 | 0.569-0.689 |
| Acrylonitrile | 2.27 | 3.34 | 0.680 | ok | 0.680 | 0.620-0.740 |
| Acetonitrile | 2.06 | 3.34 | 0.617 | ok | 0.618 | 0.558-0.678 |
| 1,3-Butadiene | 1.86 | 3.34 | 0.557 | ok | 0.559 | 0.499-0.619 |
| Benzene | 4.38 | 3.34 | 1.311 | ok | 1.312 | 1.252-1.372 |
| Bromobenzene | 14.39 | 10.59 | 1.359 | ok | 1.358 | 1.298-1.418 |
| Bromodichloromethane | 5.30 | 4.74 | 1.118 | ok | 1.119 | 1.059-1.179 |
| Bromoform | 11.84 | 10.59 | 1.118 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.93 | 3.34 | 0.578 | ok | 0.579 | 0.519-0.639 |
| Bromoethene | 2.07 | 3.34 | 0.620 | ok | 0.620 | 0.560-0.680 |
| n-Butane | 1.88 | 3.34 | 0.563 | ok | 0.563 | 0.503-0.623 |
| Benzyl Chloride | 16.89 | 10.59 | 1.595 | ok | 1.595 | 1.535-1.655 |
| n-Butylbenzene | 17.59 | 10.59 | 1.661 | ok | 1.661 | 1.601-1.721 |
| sec-Butylbenzene | 17.08 | 10.59 | 1.613 | ok | 1.613 | 1.553-1.673 |
| tert-Butylbenzene | 16.81 | 10.59 | 1.587 | ok | 1.587 | 1.527-1.647 |
| Carbon disulfide | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Chlorobenzene | 10.68 | 10.59 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.70 | 3.34 | 0.509 | ok | 0.511 | 0.451-0.571 |
| Chloroethane | 1.98 | 3.34 | 0.593 | ok | 0.593 | 0.533-0.653 |
| Chlorotrifluoroethene | 1.71 | 3.34 | 0.512 | ok | 0.513 | 0.453-0.573 |
| Chloroform | 3.42 | 3.34 | 1.024 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.77 | 3.34 | 0.530 | ok | 0.531 | 0.471-0.591 |
| 3-Chloropropene | 2.46 | 3.34 | 0.737 | ok | 0.737 | 0.677-0.797 |
| 2-Chlorotoluene | 15.53 | 10.59 | 1.466 | ok | 1.466 | 1.406-1.526 |
| Carbon tetrachloride | 4.50 | 3.34 | 1.347 | ok | 1.348 | 1.288-1.408 |
| Cyclohexane | 4.60 | 4.74 | 0.970 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.85 | 3.34 | 0.853 | ok | 0.854 | 0.794-0.914 |
| 1,1-Dichloroethylene | 2.38 | 3.34 | 0.713 | ok | 0.713 | 0.653-0.773 |
| 1,2-Dibromoethane (EDB) | 8.55 | 4.74 | 1.804 | ok | 1.803 | 1.743-1.863 |
| 1,2-Dichloroethane | 3.87 | 3.34 | 1.159 | ok | 1.158 | 1.098-1.218 |
| 1,2-Dichloropropane | 5.11 | 4.74 | 1.078 | ok | 1.078 | 1.018-1.138 |
| 1,3-Dichloropropane | 7.69 | 4.74 | 1.622 | ok | 1.623 | 1.563-1.683 |
| 1,4-Dioxane | 5.37 | 4.74 | 1.133 | ok | 1.136 | 1.076-1.196 |
| Dichlorodifluoromethane | 1.73 | 3.34 | 0.518 | ok | 0.518 | 0.458-0.578 |
| Dichlorofluoromethane | 2.00 | 3.34 | 0.599 | ok | 0.599 | 0.539-0.659 |
| Dibromochloromethane | 8.19 | 4.74 | 1.728 | ok | 1.729 | 1.669-1.789 |
| Dibromomethane | 5.06 | 4.74 | 1.068 | ok | 1.068 | 1.008-1.128 |
| trans-1,2-Dichloroethylene | 2.77 | 3.34 | 0.829 | ok | 0.829 | 0.769-0.889 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.25 | 3.34 | 0.973 | ok | 0.973 | 0.913-1.033 |
| cis-1,3-Dichloropropene | 6.35 | 4.74 | 1.340 | ok | 1.341 | 1.281-1.401 |
| m-Dichlorobenzene | 16.87 | 10.59 | 1.593 | ok | 1.593 | 1.533-1.653 |
| o-Dichlorobenzene | 17.24 | 10.59 | 1.628 | ok | 1.628 | 1.568-1.688 |
| p-Dichlorobenzene | 16.95 | 10.59 | 1.601 | ok | 1.601 | 1.541-1.661 |
| trans-1,3-Dichloropropene | 7.07 | 4.74 | 1.492 | ok | 1.492 | 1.432-1.552 |
| Di-Isopropyl ether | 3.40 | 3.34 | 1.018 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.88 | 4.74 | 1.030 | ok | 1.030 | 0.970-1.090 |
| 2,4-Dimethylpentane | 3.96 | 3.34 | 1.186 | ok | 1.186 | 1.126-1.246 |
| Ethanol | 2.00 | 3.34 | 0.599 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.58 | 10.59 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.41 | 3.34 | 1.021 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.24 | 4.74 | 1.105 | ok | 1.106 | 1.046-1.166 |
| 4-Ethyltoluene | 16.21 | 10.59 | 1.531 | ok | 1.531 | 1.471-1.591 |
| Freon 113 | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Freon 114 | 1.80 | 3.34 | 0.539 | ok | 0.539 | 0.479-0.599 |
| Freon 123 | 2.11 | 3.34 | 0.632 | ok | 0.634 | 0.574-0.694 |
| Freon 123A | 2.13 | 3.34 | 0.638 | ok | 0.638 | 0.578-0.698 |
| Freon 142B | 1.77 | 3.34 | 0.530 | ok | 0.530 | 0.470-0.590 |
| Freon 152A | 1.69 | 3.34 | 0.506 | ok | 0.506 | 0.446-0.566 |
| Heptane | 5.78 | 4.74 | 1.219 | ok | 1.222 | 1.162-1.282 |
| Hexachlorobutadiene | 18.78 | 10.59 | 1.773 | ok | 1.774 | 1.714-1.834 |
| Hexachloroethane | 17.77 | 10.59 | 1.678 | ok | 1.678 | 1.618-1.738 |
| Hexane | 3.39 | 3.34 | 1.015 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.22 | 4.74 | 1.734 | ok | 1.737 | 1.677-1.797 |
| Iodomethane | 2.35 | 3.34 | 0.704 | ok | 0.706 | 0.646-0.766 |
| Isopropylbenzene | 14.51 | 10.59 | 1.370 | ok | 1.370 | 1.310-1.430 |
| Isopropyl Alcohol | 2.20 | 3.34 | 0.659 | ok | 0.662 | 0.602-0.722 |
| p-Isopropyltoluene | 17.25 | 10.59 | 1.629 | ok | 1.629 | 1.569-1.689 |
| Methylene chloride | 2.42 | 3.34 | 0.725 | ok | 0.725 | 0.665-0.785 |
| Methyl ethyl ketone | 3.04 | 3.34 | 0.910 | ok | 0.911 | 0.851-0.971 |
| Methyl Isobutyl Ketone | 6.47 | 4.74 | 1.365 | ok | 1.367 | 1.307-1.427 |
| Methyl Tert Butyl Ether | 2.89 | 3.34 | 0.865 | ok | 0.865 | 0.805-0.925 |
| Methylmethacrylate | 5.69 | 4.74 | 1.200 | ok | 1.201 | 1.141-1.261 |
| Naphthalene | 18.53 | 10.59 | 1.750 | ok | 1.750 | 1.690-1.810 |
| Nonane | 14.11 | 10.59 | 1.332 | ok | 1.331 | 1.271-1.391 |
| Octane | 9.57 | 4.74 | 2.019 | ok | 2.020 | 1.960-2.080 |
| Pentane | 2.30 | 3.34 | 0.689 | ok | 0.689 | 0.629-0.749 |
| n-Propylbenzene | 15.87 | 10.59 | 1.499 | ok | 1.498 | 1.438-1.558 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | TCH | 0.1 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | TCH | 50 | GCMS6W | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.71 | 3.34 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Styrene | 12.76 | 10.59 | 1.205 | ok | 1.204 | 1.144-1.264 |
| 1,1,1-Trichloroethane | 4.05 | 3.34 | 1.213 | ok | 1.212 | 1.152-1.272 |
| 1,1,1,2-Tetrachloroethane | 10.69 | 10.59 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.00 | 10.59 | 1.228 | ok | 1.227 | 1.167-1.287 |
| 1,1,2-Trichloroethane | 7.24 | 4.74 | 1.527 | ok | 1.528 | 1.468-1.588 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.59 | 1.746 | ok | 1.746 | 1.686-1.806 |
| 1,2,3-Trichloropropane | 13.29 | 10.59 | 1.255 | ok | 1.253 | 1.193-1.313 |
| 1,2,3-Trimethylbenzene | 17.19 | 10.59 | 1.623 | ok | 1.623 | 1.563-1.683 |
| 1,2,4-Trimethylbenzene | 16.81 | 10.59 | 1.587 | ok | 1.587 | 1.527-1.647 |
| 1,3,5-Trimethylbenzene | 16.36 | 10.59 | 1.545 | ok | 1.545 | 1.485-1.605 |
| 2,2,4-Trimethylpentane | 5.45 | 4.74 | 1.150 | ok | 1.151 | 1.091-1.211 |
| Tertiary Butyl Alcohol | 2.39 | 3.34 | 0.716 | ok | 0.719 | 0.659-0.779 |
| Tetrachloroethylene | 9.42 | 4.74 | 1.987 | ok | 1.989 | 1.929-2.049 |
| Tetrahydrofuran | 3.65 | 3.34 | 1.093 | ok | 1.094 | 1.034-1.154 |
| Toluene | 7.62 | 4.74 | 1.608 | ok | 1.609 | 1.549-1.669 |
| Trichloroethylene | 5.35 | 4.74 | 1.129 | ok | 1.130 | 1.070-1.190 |
| Trichlorofluoromethane | 2.19 | 3.34 | 0.656 | ok | 0.656 | 0.596-0.716 |
| Vinyl chloride | 1.83 | 3.34 | 0.548 | ok | 0.548 | 0.488-0.608 |
| Vinyl Acetate | 2.93 | 3.34 | 0.877 | ok | 0.877 | 0.817-0.937 |
| m,p-Xylene | 12.02 | 10.59 | 1.135 | ok | 1.135 | 1.075-1.195 |
| o-Xylene | 12.97 | 10.59 | 1.225 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.34 | ok | 3.34 | 3.01-3.67 | 49484 | ok | 48058 | 28835-67281 |
| 1,4-Difluorobenzene | 4.74 | ok | 4.73 | 4.40-5.06 | 256894 | ok | 240724 | 144434-337014 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 229830 | ok | 213567 | 128140-298994 |

# Surrogate Recovery Summary



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Method:** TO-15 **Matrix:** AIR

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 |
|---|---|---|
| JD54338-1 | 6W26868.D | 97 |
| JD54338-1 | 6W26841.D | 99 |
| JD54338-2 | 6W26842.D | 98 |
| JD53652-1DUP | 6W26834.D | 99 |
| JD54423-15DUP | 6W26872.D | 99 |
| V2W2734-SCC | 2W61625.D | 93 |
| V6W1083-SCC | 6W25452.D | 93 |
| V6W1137-BS | 6W26824.D | 101 |
| V6W1137-BSD | 6W26825.D | 102 |
| V6W1137-MB | 6W26830.D | 98 |
| V6W1138-BS | 6W26864.D | 102 |
| V6W1138-BSD | 6W26865.D | 100 |
| V6W1138-MB | 6W26867.D | 98 |
| V2W2734-BS | 2W61612.D | 101 |
| V2W2734-BSD | 2W61613.D | 100 |
| V2W2734-MB | 2W61615.D | 96 |
| V6W1083-BS | 6W25440.D | 96 |
| V6W1083-BSD | 6W25441.D | 96 |
| V6W1083-MB | 6W25444.D | 94 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = 4-Bromofluorobenzene | 65-128% |

# Initial Calibration Summary



**Job Number:** JD54338 **Sample:** V2W2709-ICC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61016.D
**Project:** EPT, Ithaca, NY

Response Factor Report MS2W

Method : C:\msdchem\1\METHODS\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Wed Aug 24 16:16:55 2022
Response via : Initial Calibration

Calibration Files
0.5 =2w61013.D 0.2 =2w61012.D 40 =2w61018.D 0.04=2w61010.D
5 =2w61015.D 10 =2w61016.D 20 =2w61017.D 0.1 =2w61011.D
50 =2w61019.D =

| Compound | 0.5 | 0.2 | 40 | 0.04 | 5 | 10 | 20 | 0.1 | 50 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) I BROMOCHLOROMETHANE | ISTD | | | | | | | | | | |
| 2) FREON 115 | | | | | | | | | | 0.000 | -1.00 |
| 3) FREON 152A | 0.838 | 0.825 | 0.806 | 0.879 | 0.869 | 0.830 | 0.863 | 0.815 | | 0.841 | 3.17 |
| 4) CHLORODIFLUOROMETHANE | 0.372 | 0.363 | 0.362 | 0.399 | 0.399 | 0.373 | 0.348 | 0.372 | | 0.373 | 4.71 |
| 5) CHLOROTRIFLUOROETHENE | 2.153 | 2.129 | 2.081 | 2.302 | 2.239 | 2.145 | 2.142 | 2.092 | | 2.160 | 3.44 |
| 6) DICHLORODIFLUOROMETHANE | 4.762 | 4.819 | 4.906 | 5.202 | 5.120 | 4.926 | 5.171 | 4.897 | | 4.975 | 3.35 |
| 7) PROPYLENE | 0.914 | 0.967 | 0.834 | 0.972 | 0.928 | 0.871 | 1.162 | 0.865 | | 0.939 | 10.91 |
| 8) 1-CHLORO-1,1-DIFLUOROETHANE | 3.571 | 3.624 | 3.719 | 3.900 | 3.869 | 3.704 | 3.759 | 3.819 | | 3.746 | 3.06 |
| 9) FREON 114 | 4.333 | 4.434 | 4.426 | 4.704 | 4.590 | 4.410 | 4.427 | 4.525 | | 4.481 | 2.65 |
| 10) CHLOROMETHANE | 0.506 | 0.550 | 0.451 | 0.514 | 0.494 | 0.470 | 0.572 | 0.452 | | 0.501 | 8.74 |
| 11) VINYL CHLORIDE | 1.663 | 1.686 | 1.644 | 1.860 | 1.810 | 1.702 | 1.894 | 1.665 | | 1.740 | 5.66 |
| 12) 1,3-BUTADIENE | 1.366 | 1.370 | 1.281 | 1.439 | 1.397 | 1.310 | 1.299 | 1.289 | | 1.344 | 4.28 |
| 13) N-BUTANE | 2.269 | 2.553 | 2.107 | 2.376 | 2.259 | 2.147 | 2.874 | 2.138 | | 2.340 | 11.13 |
| 14) BROMOMETHANE | 1.503 | 1.613 | 1.479 | 1.640 | 1.587 | 1.512 | 1.744 | 1.500 | | 1.572 | 5.81 |
| 15) CHLOROETHANE | 0.903 | 0.856 | 0.907 | 1.013 | 0.976 | 0.923 | 0.968 | 0.902 | | 0.931 | 5.44 |
| 16) DICHLOROFLUOROMETHANE | 3.598 | 3.694 | 3.583 | 3.922 | 3.830 | 3.629 | 3.741 | 3.638 | | 3.704 | 3.24 |
| 17) ACETONITRILE | 1.365 | 1.494 | 1.251 | 1.429 | 1.376 | 1.297 | 1.656 | 1.264 | | 1.391 | 9.73 |
| 18) ACROLEIN | 0.319 | 0.337 | 0.744 | 0.842 | 0.810 | 0.772 | 0.330 | 0.758 | | 0.614 | 38.79 |
| 19) FREON 123 | 3.923 | 3.981 | 4.088 | 4.370 | 4.246 | 4.078 | 4.038 | 4.209 | | 4.117 | 3.60 |
| 20) FREON 123A | 2.244 | 2.227 | 2.340 | 2.508 | 2.458 | 2.356 | 2.519 | 2.399 | | 2.381 | 4.67 |
| 21) TRICHLOROFLUOROMETHANE | 4.929 | 4.902 | 5.160 | 5.621 | 5.405 | 5.201 | 4.954 | 5.246 | | 5.177 | 4.86 |
| 22) ISOPROPYL ALCOHOL | 4.300 | 4.269 | 3.712 | 4.118 | 3.969 | 3.743 | 5.126 | 3.820 | | 4.132 | 11.16 |
| 23) ACETONE | | | | | | | | | | | |

# Initial Calibration Summary

**Job Number:** JD54338 **Sample:** V2W2709-ICC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61016.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1.566 | 1.798 | 1.023 | 1.159 | 1.103 | 1.038 | 1.821 | 1.034 | 1.318 | 26.64 |
| 24) | PENTANE | | | | | | | | | |
| | 2.200 | 2.462 | 2.047 | 2.324 | 2.206 | 2.070 | 2.693 | 2.112 | 2.264 | 9.77 |
| 25) | IODOMETHANE | | | | | | | | | |
| | 4.826 | 4.903 | 4.952 | 5.421 | 5.220 | 4.997 | 5.092 | 5.077 | 5.061 | 3.75 |
| 26) | 1,1-DICHLOROETHYLENE | | | | | | | | | |
| | 1.840 | 1.956 | 1.925 | 2.169 | 2.055 | 1.953 | 2.020 | 1.978 | 1.987 | 4.91 |
| 27) | CARBON DISULFIDE | | | | | | | | | |
| | 5.500 | 5.433 | 6.228 | 6.322 | 6.234 | 6.009 | 5.668 | 6.481 | 5.984 | 6.69 |
| 28) | ETHANOL | | | | | | | | | |
| | 0.938 | 1.040 | 0.635 | 0.703 | 0.683 | 0.640 | 1.231 | 0.638 | 0.813 | 28.02 |
| 29) | BROMOETHENE | | | | | | | | | |
| | 1.567 | 1.573 | 1.591 | 1.739 | 1.702 | 1.612 | 1.461 | 1.603 | 1.606 | 5.30 |
| 30) | ACRYLONITRILE | | | | | | | | | |
| | 1.532 | 1.618 | 1.471 | 1.706 | 1.642 | 1.514 | 1.508 | 1.496 | 1.561 | 5.35 |
| 31) | METHYLENE CHLORIDE | | | | | | | | | |
| | 2.181 | 2.729 | 1.734 | 2.004 | 1.907 | 1.773 | 3.559 | 1.755 | 2.205 | 28.94 |
| 32) | 3-CHLOROPROPENE | | | | | | | | | |
| | 1.089 | 1.098 | 0.947 | 1.054 | 1.007 | 0.955 | 1.032 | 0.974 | 1.020 | 5.73 |
| 33) | FREON 113 | | | | | | | | | |
| | 3.110 | 3.182 | 3.390 | 3.562 | 3.457 | 3.346 | 3.225 | 3.519 | 3.349 | 4.89 |
| 34) | TRANS-1,2-DICHLOROETHENE | | | | | | | | | |
| | 1.598 | 1.652 | 1.617 | 1.790 | 1.709 | 1.623 | 1.626 | 1.623 | 1.655 | 3.87 |
| 35) | TERTIARY BUTYL ALCOHOL | | | | | | | | | |
| | 4.966 | 5.245 | 5.039 | 5.455 | 5.245 | 5.002 | 5.464 | 5.234 | 5.206 | 3.70 |
| 36) | METHYL TERTIARY BUTYL ETHER | | | | | | | | | |
| | 4.108 | 4.159 | 4.200 | 4.533 | 4.346 | 4.204 | 4.399 | 4.339 | 4.286 | 3.32 |
| 37) | TETRAHYDROFURAN | | | | | | | | | |
| | 0.701 | 0.710 | 0.734 | 0.821 | 0.801 | 0.754 | 0.522 | 0.740 | 0.723 | 12.60 |
| 38) | HEXANE | | | | | | | | | |
| | 2.686 | 2.707 | 2.983 | 3.064 | 2.974 | 2.883 | 2.733 | 3.087 | 2.890 | 5.61 |
| 39) | VINYL ACETATE | | | | | | | | | |
| | 0.394 | 0.330 | 0.442 | 0.438 | 0.451 | 0.444 | 0.310 | 0.449 | 0.407 | 14.02 |
| 40) | 1,1-DICHLOROETHANE | | | | | | | | | |
| | 2.855 | 3.072 | 2.888 | 3.174 | 3.050 | 2.919 | 2.786 | 2.946 | 2.961 | 4.32 |
| 41) | METHYL ETHYL KETONE | | | | | | | | | |
| | 0.705 | 0.708 | 0.754 | 0.840 | 0.800 | 0.775 | 0.541 | 0.768 | 0.736 | 12.32 |
| 42) | CIS-1,2-DICHLOROETHENE | | | | | | | | | |
| | 1.764 | 1.801 | 1.686 | 1.898 | 1.824 | 1.751 | 1.766 | 1.722 | 1.776 | 3.66 |
| 43) | DIISOPROPYL ETHER | | | | | | | | | |
| | 0.751 | 0.796 | 0.884 | 0.896 | 0.872 | 0.856 | 0.797 | 0.918 | 0.846 | 6.91 |
| 44) | ETHYL ACETATE | | | | | | | | | |
| | 0.516 | 0.501 | 0.624 | 0.641 | 0.616 | 0.602 | | 0.646 | 0.592 | 9.99 |
| 45) | METHYL ACRYLATE | | | | | | | | | |
| | 3.029 | 2.824 | 3.666 | 3.700 | 3.647 | 3.541 | 2.972 | 3.806 | 3.398 | 11.44 |
| 46) | CHLOROFORM | | | | | | | | | |
| | 3.475 | 3.504 | 3.589 | 3.867 | 3.695 | 3.565 | 3.587 | 3.673 | 3.619 | 3.44 |
| 47) | 2,4-DIMETHYLPENTANE | | | | | | | | | |
| | 3.337 | 3.430 | 3.242 | 3.600 | 3.413 | 3.267 | 3.345 | 3.303 | 3.367 | 3.39 |
| 48) | 1,1,1-TRICHLOROETHANE | | | | | | | | | |
| | 3.364 | 3.500 | 3.611 | 3.841 | 3.752 | 3.656 | 3.447 | 3.706 | 3.609 | 4.50 |
| 49) | CARBON TETRACHLORIDE | | | | | | | | | |
| | 3.168 | 3.172 | 3.789 | 3.823 | 3.833 | 3.765 | 3.166 | 3.894 | 3.576 | 9.49 |
| 50) | 1,2-DICHLOROETHANE | | | | | | | | | |
| | 2.487 | 2.397 | 2.374 | 2.626 | 2.541 | 2.417 | 2.316 | 2.454 | 2.451 | 4.03 |
| 51) | BENZENE | | | | | | | | | |
| | 5.070 | 5.326 | 4.919 | 5.498 | 5.233 | 5.030 | 5.280 | 4.976 | 5.167 | 3.86 |
| 52) | I 1,4-DIFLUOROBENZENE | ---------- | ISTD | ---------- | | | | | | |
| 53) | CYCLOHEXANE | | | | | | | | | |

# Initial Calibration Summary

**Job Number:** JD54338 **Sample:** V2W2709-ICC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61016.D
**Project:** EPT, Ithaca, NY

```
          0.413 0.424 0.411       0.449 0.433 0.413 0.416 0.418   0.422    3.07
54)  2,3-DIMETHYLPENTANE
          0.204 0.196 0.207       0.222 0.215 0.206 0.195 0.212   0.207    4.37
55)  TRICHLOROETHENE
          0.425 0.404 0.447 0.320 0.470 0.457 0.442 0.394 0.457   0.424   10.95
56)  1,2-DICHLOROPROPANE
          0.373 0.374 0.377       0.402 0.387 0.374 0.383 0.383   0.382    2.57
57)  DIBROMOMETHANE
          0.444 0.444 0.423       0.448 0.432 0.419 0.449 0.429   0.436    2.71
58)  ETHYL ACRYLATE
          0.578 0.569 0.802       0.813 0.790 0.773 0.587 0.827   0.717   16.27
59)  BROMODICHLOROMETHANE
          0.630 0.616 0.749       0.748 0.747 0.729 0.617 0.763   0.700    9.43
60)  2,2,4-TRIMETHYLPENTANE
          1.662 1.696 1.665       1.773 1.700 1.631 1.683 1.706   1.689    2.47
61)  1,4-DIOXANE
          0.201 0.172 0.211       0.219 0.210 0.206       0.215   0.205    7.62
62)  HEPTANE
          0.497 0.540 0.529       0.557 0.532 0.512 0.539 0.549   0.532    3.66
63)  METHYL METHACRYLATE
          0.259 0.259 0.355       0.372 0.363 0.350 0.288 0.361   0.326   14.90
64)  METHYL ISOBUTYL KETONE
          0.203 0.208 0.307       0.322 0.312 0.300 0.211 0.315   0.272   19.93
65)  CIS-1,3-DICHLOROPROPENE
          0.454 0.430 0.559       0.555 0.546 0.541 0.390 0.571   0.506   13.83
66)  TOLUENE
          1.160 1.113 1.205       1.264 1.238 1.195 1.241 1.228   1.206    4.09
67)  1,3-DICHLOROPROPANE
          0.534 0.533 0.582       0.613 0.600 0.574 0.554 0.592   0.573    5.20
68)  TRANS-1,3-DICHLOROPROPENE
          0.374 0.327 0.526       0.487 0.503 0.502 0.371 0.538   0.453   18.09
69)  1,1,2-TRICHLOROETHANE
          0.362 0.326 0.356       0.377 0.361 0.351 0.332 0.360   0.353    4.74
70)  2-HEXANONE
          0.085 0.075 0.384       0.381 0.382 0.373 0.062 0.394   0.267   59.92
           ----- Linear regression -----  Coefficient =  0.9996
             Response Ratio = -0.01215 + 0.39178 *A

71)  ETHYL METHACRYLATE
          0.330 0.303 0.568       0.564 0.571 0.557 0.326 0.580   0.475   27.13
72)  TETRACHLOROETHENE
          0.486 0.496 0.471 0.463 0.498 0.491 0.469 0.493 0.478   0.483    2.66
73)  DIBROMOCHLOROMETHANE
          0.550 0.528 0.791       0.752 0.768 0.766 0.537 0.809   0.688   18.18
74)  1,2-DIBROMOETHANE
          0.595 0.567 0.673       0.701 0.690 0.667 0.569 0.684   0.643    8.76
75)  OCTANE
          0.678 0.680 0.729       0.761 0.734 0.709 0.674 0.751   0.715    4.81

76) I   CHLOROBENZENE-D5      ----------------ISTD--------------------
77)  1,1,1,2-TETRACHLOROETHANE
          0.454 0.469 0.594       0.579 0.573 0.568 0.489 0.608   0.542   11.21
78)  CHLOROBENZENE
          1.037 1.051 1.098       1.127 1.093 1.060 1.024 1.108   1.075    3.44
79)  ETHYLBENZENE
          1.660 1.581 1.764       1.856 1.775 1.716 1.568 1.783   1.713    5.96
80)  M,P-XYLENE
          1.240 1.186 1.347       1.415 1.362 1.309 1.201 1.364   1.303    6.48
81)  O-XYLENE
          1.223 1.258 1.393       1.437 1.388 1.340 1.201 1.417   1.332    6.94
```

# Initial Calibration Summary

**Job Number:** JD54338 **Sample:** V2W2709-ICC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61016.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 82) | STYRENE | | | | | | | | | | |
| | 0.838 | 0.779 | 1.051 | 1.079 | 1.060 | 1.019 | 0.732 | 1.067 | 0.953 | 15.20 |
| 83) | NONANE | | | | | | | | | | |
| | 0.795 | 0.771 | 0.846 | 0.868 | 0.834 | 0.800 | 0.796 | 0.869 | 0.822 | 4.50 |
| 84) | BROMOFORM | | | | | | | | | | |
| | 0.451 | 0.392 | 0.829 | 0.748 | 0.771 | 0.782 | | 0.850 | 0.689 | 27.08 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | | | | | | | | | | |
| | 0.942 | 0.925 | 1.030 | 1.054 | 1.021 | 0.987 | 0.920 | 1.050 | 0.991 | 5.60 |
| 86) | 1,2,3-TRICHLOROPROPANE | | | | | | | | | | |
| | 0.728 | 0.674 | 0.736 | 0.779 | 0.746 | 0.711 | 0.693 | 0.750 | 0.727 | 4.65 |
| 87) | 4-BROMOFLUOROBENZENE | | | | | | | | | | |
| | 0.661 | 0.647 | 0.681 | 0.648 | 0.673 | 0.673 | 0.666 | 0.651 | 0.692 | 0.666 | 2.34 |
| 88) | ISOPROPYLBENZENE | | | | | | | | | | |
| | 0.531 | 0.523 | 0.582 | 0.616 | 0.588 | 0.566 | 0.521 | 0.590 | 0.565 | 6.33 |
| 89) | BROMOBENZENE | | | | | | | | | | |
| | 0.915 | 0.859 | 0.948 | 0.987 | 0.950 | 0.915 | 0.835 | 0.967 | 0.922 | 5.70 |
| 90) | 2-CHLOROTOLUENE | | | | | | | | | | |
| | 0.469 | 0.424 | 0.489 | 0.516 | 0.492 | 0.479 | 0.428 | 0.498 | 0.474 | 6.92 |
| 91) | N-PROPYLBENZENE | | | | | | | | | | |
| | 0.495 | 0.447 | 0.552 | 0.577 | 0.558 | 0.538 | 0.423 | 0.561 | 0.519 | 11.10 |
| 92) | 4-ETHYLTOLUENE | | | | | | | | | | |
| | 1.751 | 1.576 | 2.103 | 2.113 | 2.039 | 2.004 | 1.555 | 2.152 | 1.912 | 12.89 |
| 93) | 1,3,5-TRIMETHYLBENZENE | | | | | | | | | | |
| | 1.453 | 1.357 | 1.755 | 1.748 | 1.681 | 1.665 | 1.306 | 1.797 | 1.595 | 12.13 |
| 94) | ALPHA-METHYLSTYRENE | | | | | | | | | | |
| | 0.537 | 0.491 | 0.777 | 0.775 | 0.745 | 0.736 | 0.513 | 0.795 | 0.671 | 19.73 |
| 95) | TERT-BUTYLBENZENE | | | | | | | | | | |
| | 0.356 | 0.358 | 0.463 | 0.442 | 0.427 | 0.424 | 0.312 | 0.482 | 0.408 | 14.57 |
| 96) | 1,2,4-TRIMETHYLBENZENE | | | | | | | | | | |
| | 1.466 | 1.362 | 2.000 | 1.823 | 1.764 | 1.806 | 1.339 | 2.080 | 1.705 | 16.65 |
| 97) | BENZYL CHLORIDE | | | | | | | | | | |
| | 0.553 | 0.489 | 1.443 | 1.001 | 1.134 | 1.265 | | 1.505 | 1.056 | 38.24 |
| 98) | M-DICHLOROBENZENE | | | | | | | | | | |
| | 1.019 | 0.948 | 1.230 | 1.229 | 1.163 | 1.159 | 0.954 | 1.263 | 1.121 | 11.43 |
| 99) | P-DICHLOROBENZENE | | | | | | | | | | |
| | 1.035 | 0.926 | 1.250 | 1.226 | 1.176 | 1.173 | 1.022 | 1.279 | 1.136 | 11.11 |
| 100) | O-DICHLOROBENZENE | | | | | | | | | | |
| | 0.969 | 0.965 | 1.235 | 1.161 | 1.117 | 1.125 | 0.950 | 1.303 | 1.103 | 11.94 |
| 101) | SEC-BUTYLBENZENE | | | | | | | | | | |
| | 0.436 | 0.480 | 0.561 | 0.552 | 0.522 | 0.519 | 0.402 | 0.585 | 0.507 | 12.49 |
| 102) | 1,2,3-TRIMETHYLBENZENE | | | | | | | | | | |
| | 1.423 | 1.351 | 1.809 | 1.771 | 1.690 | 1.694 | 1.312 | 1.851 | 1.613 | 13.41 |
| 103) | P-ISOPROPYLTOLUENE | | | | | | | | | | |
| | 0.479 | 0.471 | 0.646 | 0.581 | 0.575 | 0.580 | 0.447 | 0.690 | 0.559 | 15.50 |
| 104) | N-BUTYLBENZENE | | | | | | | | | | |
| | 0.428 | 0.395 | 0.615 | 0.553 | 0.542 | 0.547 | 0.399 | 0.654 | 0.517 | 19.07 |
| 105) | HEXACHLOROETHANE | | | | | | | | | | |
| | 0.370 | 0.361 | 0.824 | 0.634 | 0.665 | 0.709 | | 0.868 | 0.633 | 31.73 |
| 106) | HEXACHLOROBUTADIENE | | | | | | | | | | |
| | 0.745 | 0.666 | 1.121 | 0.798 | 0.803 | 0.846 | 0.647 | 1.299 | 0.866 | 26.34 |
| 107) | 1,2,4-TRICHLOROBENZENE | | | | | | | | | | |
| | 0.758 | 0.662 | 1.172 | 0.909 | 0.933 | 0.979 | 0.581 | 1.314 | 0.914 | 27.13 |
| 108) | NAPHTHALENE | | | | | | | | | | |
| | 1.746 | 1.430 | 2.909 | 2.216 | 2.325 | 2.453 | | 3.260 | 2.334 | 26.98 |

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

M2W2709.M Wed Aug 24 16:24:15 2022 GCMS2W

# Initial Calibration Verification



**Job Number:** JD54338 **Sample:** V2W2709-ICV2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61022.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\2w61022.D Vial: 4
Acq On : 19 Aug 2022 6:00 pm Operator: thomash
Sample : icv2709-10 Inst : MS2W
Misc : MS61038,V2w2709,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Wed Aug 24 16:16:55 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 3.61 |
| 2 | T | FREON 115 | 0.000 | 0.799 | 0.0 | 0# | 0.00 | 1.80 |
| 3 | T | FREON 152A | 0.841 | 0.802 | 4.6 | 94 | 0.00 | 1.85 |
| 4 | T | CHLORODIFLUOROMETHANE | 0.373 | 0.359 | 3.8 | 91 | 0.00 | 1.86 |
| 5 | T | CHLOROTRIFLUOROETHENE | 2.160 | 2.085 | 3.5 | 94 | 0.00 | 1.88 |
| 6 | T | DICHLORODIFLUOROMETHANE | 4.975 | 4.731 | 4.9 | 94 | 0.00 | 1.90 |
| 7 | T | PROPYLENE | 0.939 | 0.869 | 7.5 | 95 | 0.00 | 1.87 |
| 8 | T | 1-CHLORO-1,1-DIFLUOROETHA | 3.746 | 3.571 | 4.7 | 94 | 0.00 | 1.95 |
| 9 | T | FREON 114 | 4.481 | 4.236 | 5.5 | 94 | 0.00 | 1.99 |
| 10 | T | CHLOROMETHANE | 0.501 | 0.453 | 9.6 | 93 | 0.00 | 1.96 |
| 11 | T | VINYL CHLORIDE | 1.740 | 1.663 | 4.4 | 93 | 0.00 | 2.04 |
| 12 | t | 1,3-BUTADIENE | 1.344 | 1.273 | 5.3 | 93 | 0.00 | 2.09 |
| 13 | T | N-BUTANE | 2.340 | 2.101 | 10.2 | 94 | 0.00 | 2.11 |
| 14 | T | BROMOMETHANE | 1.572 | 1.470 | 6.5 | 94 | 0.00 | 2.19 |
| 15 | T | CHLOROETHANE | 0.931 | 0.924 | 0.8 | 96 | 0.00 | 2.25 |
| 16 | T | DICHLOROFLUOROMETHANE | 3.704 | 3.487 | 5.9 | 92 | 0.00 | 2.28 |
| 17 | T | ACETONITRILE | 1.391 | 1.239 | 10.9 | 91 | 0.00 | 2.37 |
| 18 | T | ACROLEIN | 0.614 | 0.815 | -32.7# | 102 | 0.00 | 2.42 |
| 19 | T | FREON 123 | 4.117 | 4.016 | 2.5 | 96 | 0.00 | 2.43 |
| 20 | T | FREON 123A | 2.381 | 2.491 | -4.6 | 103 | 0.00 | 2.45 |
| 21 | T | TRICHLOROFLUOROMETHANE | 5.177 | 5.003 | 3.4 | 94 | 0.00 | 2.52 |
| 22 | T | ISOPROPYL ALCOHOL | 4.132 | 3.615 | 12.5 | 92 | 0.00 | 2.53 |
| 23 | T | ACETONE | 1.318 | 0.972 | 26.3 | 89 | 0.00 | 2.46 |
| 24 | T | PENTANE | 2.264 | 2.016 | 11.0 | 93 | 0.00 | 2.63 |
| 25 | T | IODOMETHANE | 5.061 | 4.918 | 2.8 | 96 | 0.00 | 2.69 |
| 26 | T | 1,1-DICHLOROETHYLENE | 1.987 | 1.876 | 5.6 | 93 | 0.00 | 2.71 |
| 27 | T | CARBON DISULFIDE | 5.984 | 5.333 | 10.9 | 87 | 0.00 | 2.84 |
| 28 | T | ETHANOL | 0.813 | 0.714 | 12.2 | 106 | 0.00 | 2.29 |
| 29 | T | BROMOETHENE | 1.606 | 1.553 | 3.3 | 93 | 0.00 | 2.38 |
| 30 | T | ACRYLONITRILE | 1.561 | 1.457 | 6.7 | 90 | 0.00 | 2.60 |
| 31 | T | METHYLENE CHLORIDE | 2.205 | 1.726 | 21.7 | 92 | 0.00 | 2.75 |
| 32 | T | 3-CHLOROPROPENE | 1.020 | 0.940 | 7.8 | 95 | 0.00 | 2.79 |
| 33 | T | FREON 113 | 3.349 | 3.141 | 6.2 | 92 | 0.00 | 2.84 |
| 34 | T | TRANS-1,2-DICHLOROETHENE | 1.655 | 1.581 | 4.5 | 94 | 0.00 | 3.08 |
| 35 | T | TERTIARY BUTYL ALCOHOL | 5.206 | 4.523 | 13.1 | 87 | 0.00 | 2.72 |
| 36 | t | METHYL TERTIARY BUTYL ETH | 4.286 | 4.168 | 2.8 | 97 | 0.00 | 3.19 |
| 37 | T | TETRAHYDROFURAN | 0.723 | 0.750 | -3.7 | 95 | 0.00 | 3.90 |
| 38 | T | HEXANE | 2.890 | 2.847 | 1.5 | 97 | 0.00 | 3.66 |
| 39 | T | VINYL ACETATE | 0.407 | 0.441 | -8.4 | 99 | 0.00 | 3.23 |
| 40 | T | 1,1-DICHLOROETHANE | 2.961 | 2.914 | 1.6 | 97 | 0.00 | 3.16 |
| 41 | T | METHYL ETHYL KETONE | 0.736 | 0.790 | -7.3 | 100 | 0.00 | 3.33 |
| 42 | T | CIS-1,2-DICHLOROETHENE | 1.776 | 1.721 | 3.1 | 96 | 0.00 | 3.53 |

# Initial Calibration Verification

**Job Number:** JD54338 **Sample:** V2W2709-ICV2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61022.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 43 | T | DIISOPROPYL ETHER | 0.846 | 0.835 | 1.3 | 97 | 0.00 | 3.67 |
| 44 | T | ETHYL ACETATE | 0.592 | 0.595 | -0.5 | 98 | 0.00 | 3.67 |
| 45 | T | METHYL ACRYLATE | 3.398 | 3.436 | -1.1 | 96 | 0.00 | 3.66 |
| 46 | T | CHLOROFORM | 3.619 | 3.446 | 4.8 | 95 | 0.00 | 3.69 |
| 47 | T | 2,4-DIMETHYLPENTANE | 3.367 | 3.239 | 3.8 | 96 | 0.00 | 4.19 |
| 48 | T | 1,1,1-TRICHLOROETHANE | 3.609 | 3.571 | 1.1 | 97 | 0.00 | 4.28 |
| 49 | T | CARBON TETRACHLORIDE | 3.576 | 3.661 | -2.4 | 97 | 0.00 | 4.71 |
| 50 | T | 1,2-DICHLOROETHANE | 2.451 | 2.434 | 0.7 | 97 | 0.00 | 4.11 |
| 51 | t | BENZENE | 5.167 | 5.034 | 2.6 | 98 | 0.00 | 4.60 |
| 52 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 4.93 |
| 53 | T | CYCLOHEXANE | 0.422 | 0.410 | 2.8 | 97 | 0.00 | 4.81 |
| 54 | T | 2,3-DIMETHYLPENTANE | 0.207 | 0.206 | 0.5 | 98 | 0.00 | 5.07 |
| 55 | T | TRICHLOROETHENE | 0.424 | 0.432 | -1.9 | 97 | 0.00 | 5.52 |
| 56 | T | 1,2-DICHLOROPROPANE | 0.382 | 0.365 | 4.5 | 97 | 0.00 | 5.28 |
| 57 | T | DIBROMOMETHANE | 0.436 | 0.408 | 6.4 | 97 | 0.00 | 5.24 |
| 58 | T | ETHYL ACRYLATE | 0.717 | 0.769 | -7.3 | 100 | 0.00 | 5.40 |
| 59 | T | BROMODICHLOROMETHANE | 0.700 | 0.697 | 0.4 | 95 | 0.00 | 5.46 |
| 60 | T | 2,2,4-TRIMETHYLPENTANE | 1.689 | 1.611 | 4.6 | 97 | 0.00 | 5.62 |
| 61 | T | 1,4-DIOXANE | 0.205 | 0.223 | -8.8 | 109 | 0.00 | 5.53 |
| 62 | T | HEPTANE | 0.532 | 0.506 | 4.9 | 97 | 0.00 | 5.94 |
| 63 | T | METHYL METHACRYLATE | 0.326 | 0.348 | -6.7 | 98 | 0.00 | 5.83 |
| 64 | T | METHYL ISOBUTYL KETONE | 0.272 | 0.321 | -18.0 | 105 | 0.00 | 6.57 |
| 65 | T | CIS-1,3-DICHLOROPROPENE | 0.506 | 0.561 | -10.9 | 105 | 0.00 | 6.47 |
| 66 | T | TOLUENE | 1.206 | 1.177 | 2.4 | 97 | 0.00 | 7.70 |
| 67 | T | 1,3-DICHLOROPROPANE | 0.573 | 0.562 | 1.9 | 96 | 0.00 | 7.76 |
| 68 | T | TRANS-1,3-DICHLOROPROPENE | 0.453 | 0.484 | -6.8 | 99 | 0.00 | 7.16 |
| 69 | T | 1,1,2-TRICHLOROETHANE | 0.353 | 0.341 | 3.4 | 96 | 0.00 | 7.32 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 70 | T | 2-HEXANONE | 10.000 | 11.064 | -10.6 | 113 | 0.00 | 8.26 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 71 | T | ETHYL METHACRYLATE | 0.475 | 0.574 | -20.8 | 103 | 0.00 | 8.40 |
| 72 | T | TETRACHLOROETHENE | 0.483 | 0.464 | 3.9 | 97 | 0.00 | 9.45 |
| 73 | T | DIBROMOCHLOROMETHANE | 0.688 | 0.725 | -5.4 | 97 | 0.00 | 8.24 |
| 74 | T | 1,2-DIBROMOETHANE | 0.643 | 0.661 | -2.8 | 98 | 0.00 | 8.59 |
| 75 | T | OCTANE | 0.715 | 0.695 | 2.8 | 97 | 0.00 | 9.59 |
| 76 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 100 | 0.00 | 10.59 |
| 77 | T | 1,1,1,2-TETRACHLOROETHANE | 0.542 | 0.558 | -3.0 | 98 | 0.00 | 10.67 |
| 78 | T | CHLOROBENZENE | 1.075 | 1.071 | 0.4 | 98 | 0.00 | 10.66 |
| 79 | t | ETHYLBENZENE | 1.713 | 1.721 | -0.5 | 97 | 0.00 | 11.55 |
| 80 | t | M,P-XYLENE | 1.303 | 1.328 | -1.9 | 98 | 0.00 | 11.98 |
| 81 | t | O-XYLENE | 1.332 | 1.363 | -2.3 | 98 | 0.00 | 12.92 |
| 82 | T | STYRENE | 0.953 | 1.064 | -11.6 | 100 | 0.00 | 12.70 |
| 83 | T | NONANE | 0.822 | 0.811 | 1.3 | 97 | 0.00 | 14.03 |
| 84 | T | BROMOFORM | 0.689 | 0.778 | -12.9 | 101 | 0.00 | 11.79 |
| 85 | T | 1,1,2,2-TETRACHLOROETHANE | 0.991 | 1.000 | -0.9 | 98 | 0.00 | 12.92 |
| 86 | T | 1,2,3-TRICHLOROPROPANE | 0.727 | 0.718 | 1.2 | 96 | 0.00 | 13.21 |
| 87 | S | 4-BROMOFLUOROBENZENE | 0.666 | 0.681 | -2.3 | 101 | 0.00 | 13.96 |
| 88 | T | ISOPROPYLBENZENE | 0.565 | 0.520 | 8.0 | 89 | 0.00 | 14.44 |
| 89 | T | BROMOBENZENE | 0.922 | 0.913 | 1.0 | 96 | 0.00 | 14.31 |
| 90 | T | 2-CHLOROTOLUENE | 0.474 | 0.484 | -2.1 | 99 | 0.00 | 15.44 |
| 91 | T | N-PROPYLBENZENE | 0.519 | 0.541 | -4.2 | 97 | 0.00 | 15.78 |
| 92 | T | 4-ETHYLTOLUENE | 1.912 | 2.021 | -5.7 | 99 | 0.00 | 16.15 |
| 93 | T | 1,3,5-TRIMETHYLBENZENE | 1.595 | 1.676 | -5.1 | 100 | 0.00 | 16.30 |
| 94 | T | ALPHA-METHYLSTYRENE | 0.671 | 0.861 | -28.3 | 116 | 0.00 | 16.50 |
| 95 | T | TERT-BUTYLBENZENE | 0.408 | 0.417 | -2.2 | 98 | 0.00 | 16.76 |
| 96 | T | 1,2,4-TRIMETHYLBENZENE | 1.705 | 1.774 | -4.0 | 101 | 0.00 | 16.77 |

# Initial Calibration Verification

**Job Number:** JD54338 **Sample:** V2W2709-ICV2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61022.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 97 | T | BENZYL CHLORIDE | 1.056 | 1.208 | -14.4 | 107 | 0.00 | 16.85 |
| 98 | T | M-DICHLOROBENZENE | 1.121 | 1.163 | -3.7 | 100 | 0.00 | 16.83 |
| 99 | T | P-DICHLOROBENZENE | 1.136 | 1.177 | -3.6 | 100 | 0.00 | 16.91 |
| 100 | T | O-DICHLOROBENZENE | 1.103 | 1.126 | -2.1 | 101 | 0.00 | 17.21 |
| 101 | T | SEC-BUTYLBENZENE | 0.507 | 0.513 | -1.2 | 98 | 0.00 | 17.04 |
| 102 | T | 1,2,3-TRIMETHYLBENZENE | 1.613 | 1.680 | -4.2 | 100 | 0.00 | 17.15 |
| 103 | T | P-ISOPROPYLTOLUENE | 0.559 | 0.565 | -1.1 | 98 | 0.00 | 17.22 |
| 104 | T | N-BUTYLBENZENE | 0.517 | 0.549 | -6.2 | 101 | 0.00 | 17.57 |
| 105 | T | HEXACHLOROETHANE | 0.633 | 0.682 | -7.7 | 103 | 0.00 | 17.74 |
| 106 | T | HEXACHLOROBUTADIENE | 0.866 | 0.818 | 5.5 | 102 | 0.00 | 18.79 |
| 107 | T | 1,2,4-TRICHLOROBENZENE | 0.914 | 0.983 | -7.5 | 106 | 0.00 | 18.48 |
| 108 | T | NAPHTHALENE | 2.334 | 2.276 | 2.5 | 98 | 0.00 | 18.53 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2w61016.D M2W2709.M Wed Aug 24 20:27:06 2022

# Continuing Calibration Summary



**Job Number:** JD54338 **Sample:** V2W2734-CC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61611.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\2w61611.D Vial: 2
Acq On : 27 Sep 2022 7:58 am Operator: thomash
Sample : cc2709-10 Inst : MS2W
Misc : MS62367,V2w2734,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Wed Aug 24 16:16:55 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 116 | 0.00 | 3.61 |
| 2 | T | FREON 115 | 0.000 | 1.215 | 0.0 | 0# | 0.00 | 1.80 |
| 3 | T | FREON 152A | 0.841 | 0.838 | 0.4 | 111 | 0.00 | 1.84 |
| 4 | T | CHLORODIFLUOROMETHANE | 0.373 | 0.366 | 1.9 | 106 | 0.00 | 1.86 |
| 5 | T | CHLOROTRIFLUOROETHENE | 2.160 | 1.942 | 10.1 | 100 | 0.00 | 1.88 |
| 6 | T | DICHLORODIFLUOROMETHANE | 4.975 | 4.793 | 3.7 | 108 | 0.00 | 1.90 |
| 7 | T | PROPYLENE | 0.939 | 0.769 | 18.1 | 96 | 0.00 | 1.87 |
| 8 | T | 1-CHLORO-1,1-DIFLUOROETHA | 3.746 | 3.849 | -2.7 | 115 | 0.00 | 1.95 |
| 9 | T | FREON 114 | 4.481 | 4.496 | -0.3 | 113 | 0.00 | 1.99 |
| 10 | T | CHLOROMETHANE | 0.501 | 0.444 | 11.4 | 104 | 0.00 | 1.95 |
| 11 | T | VINYL CHLORIDE | 1.740 | 1.908 | -9.7 | 122 | 0.00 | 2.04 |
| 12 | t | 1,3-BUTADIENE | 1.344 | 1.300 | 3.3 | 108 | 0.00 | 2.09 |
| 13 | T | N-BUTANE | 2.340 | 2.015 | 13.9 | 103 | 0.00 | 2.11 |
| 14 | T | BROMOMETHANE | 1.572 | 1.492 | 5.1 | 109 | 0.00 | 2.19 |
| 15 | T | CHLOROETHANE | 0.931 | 1.020 | -9.6 | 121 | 0.00 | 2.25 |
| 16 | T | DICHLOROFLUOROMETHANE | 3.704 | 3.852 | -4.0 | 116 | 0.00 | 2.28 |
| 17 | T | ACETONITRILE | 1.391 | 1.212 | 12.9 | 102 | 0.00 | 2.37 |
| 18 | T | ACROLEIN | 0.614 | 0.881 | -43.5# | 126 | 0.00 | 2.42 |
| 19 | T | FREON 123 | 4.117 | 4.289 | -4.2 | 117 | 0.00 | 2.43 |
| 20 | T | FREON 123A | 2.381 | 2.312 | 2.9 | 109 | 0.00 | 2.45 |
| 21 | T | TRICHLOROFLUOROMETHANE | 5.177 | 5.424 | -4.8 | 116 | 0.00 | 2.52 |
| 22 | T | ISOPROPYL ALCOHOL | 4.132 | 3.756 | 9.1 | 109 | 0.00 | 2.53 |
| 23 | T | ACETONE | 1.318 | 1.061 | 19.5 | 111 | 0.00 | 2.46 |
| 24 | T | PENTANE | 2.264 | 2.230 | 1.5 | 117 | 0.00 | 2.63 |
| 25 | T | IODOMETHANE | 5.061 | 5.077 | -0.3 | 113 | 0.00 | 2.69 |
| 26 | T | 1,1-DICHLOROETHYLENE | 1.987 | 2.168 | -9.1 | 122 | 0.00 | 2.71 |
| 27 | T | CARBON DISULFIDE | 5.984 | 7.087 | -18.4 | 132 | 0.00 | 2.85 |
| 28 | T | ETHANOL | 0.813 | 0.597 | 26.6 | 101 | 0.00 | 2.29 |
| 29 | T | BROMOETHENE | 1.606 | 1.596 | 0.6 | 108 | 0.00 | 2.38 |
| 30 | T | ACRYLONITRILE | 1.561 | 1.681 | -7.7 | 118 | 0.00 | 2.61 |
| 31 | T | METHYLENE CHLORIDE | 2.205 | 2.086 | 5.4 | 127 | 0.00 | 2.75 |
| 32 | T | 3-CHLOROPROPENE | 1.020 | 1.109 | -8.7 | 127 | 0.00 | 2.79 |
| 33 | T | FREON 113 | 3.349 | 3.393 | -1.3 | 114 | 0.00 | 2.85 |
| 34 | T | TRANS-1,2-DICHLOROETHENE | 1.655 | 1.630 | 1.5 | 110 | 0.00 | 3.08 |
| 35 | T | TERTIARY BUTYL ALCOHOL | 5.206 | 5.135 | 1.4 | 113 | 0.00 | 2.72 |
| 36 | t | METHYL TERTIARY BUTYL ETH | 4.286 | 3.855 | 10.1 | 103 | 0.00 | 3.19 |
| 37 | T | TETRAHYDROFURAN | 0.723 | 0.766 | -5.9 | 111 | 0.00 | 3.91 |
| 38 | T | HEXANE | 2.890 | 2.918 | -1.0 | 113 | 0.00 | 3.67 |
| 39 | T | VINYL ACETATE | 0.407 | 0.424 | -4.2 | 109 | 0.00 | 3.23 |
| 40 | T | 1,1-DICHLOROETHANE | 2.961 | 3.257 | -10.0 | 124 | 0.00 | 3.16 |
| 41 | T | METHYL ETHYL KETONE | 0.736 | 0.794 | -7.9 | 115 | 0.00 | 3.33 |
| 42 | T | CIS-1,2-DICHLOROETHENE | 1.776 | 1.706 | 3.9 | 108 | 0.00 | 3.53 |

# Continuing Calibration Summary

**Job Number:** JD54338 **Sample:** V2W2734-CC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61611.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 43 | T | DIISOPROPYL ETHER | 0.846 | 0.881 | -4.1 | 117 | 0.00 | 3.67 |
| 44 | T | ETHYL ACETATE | 0.592 | 0.651 | -10.0 | 122 | 0.00 | 3.67 |
| 45 | T | METHYL ACRYLATE | 3.398 | 3.468 | -2.1 | 110 | 0.00 | 3.66 |
| 46 | T | CHLOROFORM | 3.619 | 3.557 | 1.7 | 111 | 0.00 | 3.69 |
| 47 | T | 2,4-DIMETHYLPENTANE | 3.367 | 3.371 | -0.1 | 114 | 0.00 | 4.20 |
| 48 | T | 1,1,1-TRICHLOROETHANE | 3.609 | 3.385 | 6.2 | 104 | 0.00 | 4.28 |
| 49 | T | CARBON TETRACHLORIDE | 3.576 | 3.438 | 3.9 | 104 | 0.00 | 4.71 |
| 50 | T | 1,2-DICHLOROETHANE | 2.451 | 2.609 | -6.4 | 119 | 0.00 | 4.11 |
| 51 | t | BENZENE | 5.167 | 5.189 | -0.4 | 115 | 0.00 | 4.60 |
| 52 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 120 | 0.00 | 4.93 |
| 53 | T | CYCLOHEXANE | 0.422 | 0.393 | 6.9 | 109 | 0.00 | 4.81 |
| 54 | T | 2,3-DIMETHYLPENTANE | 0.207 | 0.197 | 4.8 | 110 | 0.00 | 5.07 |
| 55 | T | TRICHLOROETHENE | 0.424 | 0.408 | 3.8 | 107 | 0.00 | 5.52 |
| 56 | T | 1,2-DICHLOROPROPANE | 0.382 | 0.391 | -2.4 | 121 | 0.00 | 5.28 |
| 57 | T | DIBROMOMETHANE | 0.436 | 0.368 | 15.6 | 102 | 0.00 | 5.24 |
| 58 | T | ETHYL ACRYLATE | 0.717 | 0.728 | -1.5 | 110 | 0.00 | 5.40 |
| 59 | T | BROMODICHLOROMETHANE | 0.700 | 0.692 | 1.1 | 111 | 0.00 | 5.46 |
| 60 | T | 2,2,4-TRIMETHYLPENTANE | 1.689 | 1.618 | 4.2 | 114 | 0.00 | 5.61 |
| 61 | T | 1,4-DIOXANE | 0.205 | 0.214 | -4.4 | 122 | 0.00 | 5.53 |
| 62 | T | HEPTANE | 0.532 | 0.444 | 16.5 | 100 | 0.00 | 5.94 |
| 63 | T | METHYL METHACRYLATE | 0.326 | 0.333 | -2.1 | 110 | 0.00 | 5.83 |
| 64 | T | METHYL ISOBUTYL KETONE | 0.272 | 0.312 | -14.7 | 120 | 0.00 | 6.57 |
| 65 | T | CIS-1,3-DICHLOROPROPENE | 0.506 | 0.486 | 4.0 | 106 | 0.00 | 6.48 |
| 66 | T | TOLUENE | 1.206 | 1.142 | 5.3 | 110 | 0.00 | 7.70 |
| 67 | T | 1,3-DICHLOROPROPANE | 0.573 | 0.565 | 1.4 | 113 | 0.00 | 7.76 |
| 68 | T | TRANS-1,3-DICHLOROPROPENE | 0.453 | 0.415 | 8.4 | 99 | 0.00 | 7.16 |
| 69 | T | 1,1,2-TRICHLOROETHANE | 0.353 | 0.337 | 4.5 | 112 | 0.00 | 7.32 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 70 | T | 2-HEXANONE | 10.000 | 10.721 | -7.2 | 128 | 0.00 | 8.26 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 71 | T | ETHYL METHACRYLATE | 0.475 | 0.544 | -14.5 | 114 | 0.00 | 8.40 |
| 72 | T | TETRACHLOROETHENE | 0.483 | 0.421 | 12.8 | 103 | 0.00 | 9.44 |
| 73 | T | DIBROMOCHLOROMETHANE | 0.688 | 0.655 | 4.8 | 102 | 0.00 | 8.24 |
| 74 | T | 1,2-DIBROMOETHANE | 0.643 | 0.601 | 6.5 | 104 | 0.00 | 8.59 |
| 75 | T | OCTANE | 0.715 | 0.609 | 14.8 | 99 | 0.00 | 9.59 |
| 76 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 117 | 0.00 | 10.59 |
| 77 | T | 1,1,1,2-TETRACHLOROETHANE | 0.542 | 0.495 | 8.7 | 101 | 0.00 | 10.68 |
| 78 | T | CHLOROBENZENE | 1.075 | 0.971 | 9.7 | 104 | 0.00 | 10.67 |
| 79 | t | ETHYLBENZENE | 1.713 | 1.669 | 2.6 | 110 | 0.00 | 11.55 |
| 80 | t | M,P-XYLENE | 1.303 | 1.287 | 1.2 | 111 | 0.00 | 11.98 |
| 81 | t | O-XYLENE | 1.332 | 1.318 | 1.1 | 111 | 0.00 | 12.92 |
| 82 | T | STYRENE | 0.953 | 0.988 | -3.7 | 109 | 0.00 | 12.70 |
| 83 | T | NONANE | 0.822 | 0.713 | 13.3 | 100 | 0.00 | 14.03 |
| 84 | T | BROMOFORM | 0.689 | 0.706 | -2.5 | 107 | 0.00 | 11.79 |
| 85 | T | 1,1,2,2-TETRACHLOROETHANE | 0.991 | 0.986 | 0.5 | 113 | 0.00 | 12.93 |
| 86 | T | 1,2,3-TRICHLOROPROPANE | 0.727 | 0.719 | 1.1 | 113 | 0.00 | 13.21 |
| 87 | S | 4-BROMOFLUOROBENZENE | 0.666 | 0.663 | 0.5 | 115 | 0.00 | 13.96 |
| 88 | T | ISOPROPYLBENZENE | 0.565 | 0.468 | 17.2 | 93 | 0.00 | 14.43 |
| 89 | T | BROMOBENZENE | 0.922 | 0.897 | 2.7 | 111 | 0.00 | 14.31 |
| 90 | T | 2-CHLOROTOLUENE | 0.474 | 0.424 | 10.5 | 101 | 0.00 | 15.44 |
| 91 | T | N-PROPYLBENZENE | 0.519 | 0.479 | 7.7 | 100 | 0.00 | 15.78 |
| 92 | T | 4-ETHYLTOLUENE | 1.912 | 1.903 | 0.5 | 109 | 0.00 | 16.15 |
| 93 | T | 1,3,5-TRIMETHYLBENZENE | 1.595 | 1.574 | 1.3 | 110 | 0.00 | 16.30 |
| 94 | T | ALPHA-METHYLSTYRENE | 0.671 | 0.800 | -19.2 | 126 | 0.00 | 16.50 |
| 95 | T | TERT-BUTYLBENZENE | 0.408 | 0.373 | 8.6 | 102 | 0.00 | 16.76 |
| 96 | T | 1,2,4-TRIMETHYLBENZENE | 1.705 | 1.698 | 0.4 | 113 | 0.00 | 16.77 |

# Continuing Calibration Summary

**Job Number:** JD54338 **Sample:** V2W2734-CC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61611.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 97 | T | BENZYL CHLORIDE | 1.056 | 0.796 | 24.6 | 82 | 0.00 | 16.85 |
| 98 | T | M-DICHLOROBENZENE | 1.121 | 1.039 | 7.3 | 105 | 0.00 | 16.83 |
| 99 | T | P-DICHLOROBENZENE | 1.136 | 1.041 | 8.4 | 104 | 0.00 | 16.91 |
| 100 | T | O-DICHLOROBENZENE | 1.103 | 1.014 | 8.1 | 106 | 0.00 | 17.20 |
| 101 | T | SEC-BUTYLBENZENE | 0.507 | 0.458 | 9.7 | 103 | 0.00 | 17.04 |
| 102 | T | 1,2,3-TRIMETHYLBENZENE | 1.613 | 1.593 | 1.2 | 110 | 0.00 | 17.15 |
| 103 | T | P-ISOPROPYLTOLUENE | 0.559 | 0.499 | 10.7 | 102 | 0.00 | 17.22 |
| 104 | T | N-BUTYLBENZENE | 0.517 | 0.460 | 11.0 | 99 | 0.00 | 17.56 |
| 105 | T | HEXACHLOROETHANE | 0.633 | 0.611 | 3.5 | 108 | 0.00 | 17.74 |
| 106 | T | HEXACHLOROBUTADIENE | 0.866 | 0.741 | 14.4 | 108 | -0.01 | 18.78 |
| 107 | T | 1,2,4-TRICHLOROBENZENE | 0.914 | 0.812 | 11.2 | 102 | -0.01 | 18.47 |
| 108 | T | NAPHTHALENE | 2.334 | 1.997 | 14.4 | 101 | -0.01 | 18.52 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2w61016.D M2W2709.M Tue Sep 27 10:19:21 2022

# Initial Calibration Summary



**Job Number:** JD54338 **Sample:** V6W1077-ICC1077
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W25322.D
**Project:** EPT, Ithaca, NY

Response Factor Report GCMS6W

Method : C:\msdchem\1\methods\M6W1077.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

Calibration Files
0.5 =6W25319.D 0.2 =6W25318.D 40 =6W25324.D 0.04=6W25316.D
5 =6W25321.D 10 =6W25322.D 20 =6W25323.D 0.1 =6W25317.D
50 =6W25325.D =

| Compound | 0.5 | 0.2 | 40 | 0.04 | 5 | 10 | 20 | 0.1 | 50 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) I BROMOCHLOROMETHANE | ----------ISTD---------- | | | | | | | | | | |
| 2) FREON 115 | | | | | | | | | | 0.000 | -1.00 |
| 3) FREON 152A | 0.976 | 0.949 | 0.813 | | 0.850 | 0.830 | 0.849 | 1.179 | 0.728 | 0.897 | 15.38 |
| 4) CHLORODIFLUOROMETHANE | 0.378 | 0.449 | 0.367 | | 0.382 | 0.378 | 0.388 | 0.554 | 0.329 | 0.403 | 17.18 |
| 5) CHLOROTRIFLUOROETHENE | 2.162 | 1.989 | 1.831 | | 1.863 | 1.856 | 1.870 | 2.401 | 1.648 | 1.953 | 11.91 |
| 6) DICHLORODIFLUOROMETHANE | 5.209 | 5.843 | 3.839 | | 4.772 | 4.691 | 4.501 | 6.139 | 3.351 | 4.793 | 19.59 |
| 7) PROPYLENE | 1.433 | 1.576 | 1.196 | | 1.212 | 1.208 | 1.229 | 1.724 | 1.063 | 1.330 | 16.92 |
| 8) 1-CHLORO-1,1-DIFLUOROETHANE | 5.377 | 5.175 | 4.574 | 6.687 | 4.799 | 4.665 | 4.780 | 5.902 | 4.066 | 5.114 | 15.42 |
| 9) FREON 114 | 5.349 | 5.157 | 4.764 | 6.945 | 4.901 | 4.760 | 4.892 | 5.951 | 4.246 | 5.218 | 15.31 |
| 10) CHLOROMETHANE | 0.703 | 0.699 | 0.571 | | 0.611 | 0.611 | 0.603 | | 0.508 | 0.615 | 11.15 |
| 11) VINYL CHLORIDE | 2.306 | 2.386 | 1.955 | 3.266 | 2.029 | 1.989 | 2.061 | 2.501 | 1.729 | 2.247 | 20.08 |
| 12) 1,3-BUTADIENE | 1.803 | 2.039 | 1.555 | | 1.639 | 1.606 | 1.626 | | 1.374 | 1.663 | 12.55 |
| 13) N-BUTANE | 3.653 | 3.794 | 3.125 | 5.851 | 3.302 | 3.248 | 3.281 | 4.169 | 2.741 | 3.685 | 24.73 |
| 14) BROMOMETHANE | 1.842 | 1.850 | 1.549 | 2.585 | 1.647 | 1.589 | 1.626 | 2.162 | 1.371 | 1.802 | 20.55 |
| 15) CHLOROETHANE | 1.123 | 1.249 | 1.003 | 2.000 | 1.051 | 1.024 | 1.043 | 1.480 | 0.875 | 1.205 | 28.58 |
| 16) DICHLOROFLUOROMETHANE | 4.687 | 4.813 | 4.215 | 5.921 | 4.434 | 4.270 | 4.343 | 5.352 | 3.736 | 4.641 | 14.14 |
| 17) ACETONITRILE | 2.274 | 2.748 | 1.894 | | 2.059 | 1.974 | 1.979 | 2.663 | 1.667 | 2.157 | 17.54 |
| 18) ACROLEIN | 0.533 | 0.694 | 0.753 | | 0.802 | 0.776 | 0.796 | 0.614 | 0.670 | 0.705 | 13.58 |
| 19) FREON 123 | 4.444 | 4.550 | 4.013 | 6.296 | 4.107 | 4.046 | 4.137 | 5.027 | 3.574 | 4.466 | 17.85 |
| 20) FREON 123A | 2.486 | 2.694 | 2.226 | 2.821 | 2.266 | 2.219 | 2.273 | 3.312 | 1.971 | 2.474 | 16.51 |
| 21) TRICHLOROFLUOROMETHANE | 5.342 | 5.169 | 4.762 | 6.741 | 4.870 | 4.752 | 4.881 | 5.793 | 4.247 | 5.173 | 14.09 |
| 22) ISOPROPYL ALCOHOL | 5.449 | 5.780 | 4.249 | | 4.606 | 4.512 | 4.524 | | 3.828 | 4.707 | 14.43 |
| 23) ACETONE | | | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1.657 | 1.734 | 1.140 | | 1.206 | 1.175 | 1.179 | | 1.003 | 1.299 | 21.50 |
| 24) | PENTANE | | | | | | | | | | | |
| | | 2.580 | 2.874 | 2.195 | 2.848 | 2.325 | 2.251 | 2.313 | | 1.935 | 2.415 | 13.55 |
| 25) | IODOMETHANE | | | | | | | | | | | |
| | | 4.678 | 4.829 | 4.301 | 6.114 | 4.439 | 4.315 | 4.413 | 5.483 | 3.833 | 4.712 | 14.70 |
| 26) | 1,1-DICHLOROETHYLENE | | | | | | | | | | | |
| | | 1.820 | 1.823 | 1.673 | 2.815 | 1.732 | 1.689 | 1.732 | 2.162 | 1.485 | 1.881 | 20.93 |
| 27) | CARBON DISULFIDE | | | | | | | | | | | |
| | | 5.893 | 5.846 | 5.426 | 7.932 | 5.435 | 5.353 | 5.523 | 6.569 | 4.829 | 5.867 | 15.48 |
| 28) | ETHANOL | | | | | | | | | | | |
| | | 1.473 | | 0.957 | | 1.031 | 1.011 | 1.017 | | 0.854 | 1.057 | 20.22 |
| 29) | BROMOETHENE | | | | | | | | | | | |
| | | 1.817 | 1.698 | 1.570 | 2.403 | 1.627 | 1.599 | 1.643 | 2.005 | 1.404 | 1.752 | 16.88 |
| 30) | ACRYLONITRILE | | | | | | | | | | | |
| | | 1.680 | 1.709 | 1.473 | | 1.582 | 1.545 | 1.555 | 2.238 | 1.300 | 1.635 | 16.77 |
| 31) | METHYLENE CHLORIDE | | | | | | | | | | | |
| | | 2.176 | 2.467 | 1.555 | | 1.656 | 1.598 | 1.619 | | 1.364 | 1.776 | 22.13 |
| 32) | 3-CHLOROPROPENE | | | | | | | | | | | |
| | | 1.048 | 1.193 | 0.896 | 1.475 | 0.885 | 0.895 | 0.924 | 1.192 | 0.787 | 1.033 | 21.04 |
| 33) | FREON 113 | | | | | | | | | | | |
| | | 3.039 | 3.215 | 2.892 | 4.060 | 2.934 | 2.839 | 2.943 | 3.257 | 2.587 | 3.085 | 13.50 |
| 34) | TRANS-1,2-DICHLOROETHENE | | | | | | | | | | | |
| | | 2.084 | 2.138 | 1.848 | 3.352 | 1.900 | 1.871 | 1.902 | 2.315 | 1.639 | 2.117 | 23.74 |
| 35) | TERTIARY BUTYL ALCOHOL | | | | | | | | | | | |
| | | 5.054 | 5.195 | 4.647 | 7.529 | 4.826 | 4.779 | 4.860 | 6.194 | 4.185 | 5.252 | 19.25 |
| 36) | METHYL TERTIARY BUTYL ETHER | | | | | | | | | | | |
| | | 5.873 | 6.202 | 5.529 | 8.790 | 5.692 | 5.596 | 5.708 | 7.193 | 4.963 | 6.172 | 18.68 |
| 37) | TETRAHYDROFURAN | | | | | | | | | | | |
| | | 0.756 | 0.721 | 0.730 | | 0.740 | 0.736 | 0.755 | 0.696 | 0.645 | 0.722 | 5.11 |
| 38) | HEXANE | | | | | | | | | | | |
| | | 2.750 | 2.872 | 2.644 | 3.904 | 2.628 | 2.617 | 2.683 | 3.334 | 2.568 | 2.889 | 15.46 |
| 39) | VINYL ACETATE | | | | | | | | | | | |
| | | 0.525 | 0.593 | 0.525 | | 0.482 | 0.490 | 0.538 | | 0.472 | 0.518 | 8.03 |
| 40) | 1,1-DICHLOROETHANE | | | | | | | | | | | |
| | | 4.208 | 3.996 | 3.615 | 5.529 | 3.811 | 3.709 | 3.763 | 4.473 | 3.185 | 4.032 | 16.60 |
| 41) | METHYL ETHYL KETONE | | | | | | | | | | | |
| | | 1.078 | 1.041 | 0.969 | | 1.016 | 1.006 | 1.004 | 1.168 | 0.856 | 1.017 | 8.74 |
| 42) | CIS-1,2-DICHLOROETHENE | | | | | | | | | | | |
| | | 1.657 | 1.728 | 1.911 | | 1.551 | 1.563 | 1.570 | 1.794 | 1.698 | 1.684 | 7.51 |
| 43) | DIISOPROPYL ETHER | | | | | | | | | | | |
| | | 0.885 | 0.863 | 0.817 | | 0.825 | 0.808 | 0.840 | 0.822 | 0.765 | 0.828 | 4.38 |
| 44) | ETHYL ACETATE | | | | | | | | | | | |
| | | 0.553 | 0.504 | 0.572 | | 0.557 | 0.558 | 0.581 | 0.614 | 0.521 | 0.558 | 6.10 |
| 45) | METHYL ACRYLATE | | | | | | | | | | | |
| | | 3.444 | 3.244 | 3.468 | 4.457 | 3.379 | 3.350 | 3.496 | 3.640 | 3.376 | 3.539 | 10.20 |
| 46) | CHLOROFORM | | | | | | | | | | | |
| | | 3.557 | 3.572 | 3.210 | 4.666 | 3.275 | 3.244 | 3.288 | 4.085 | 2.872 | 3.530 | 15.32 |
| 47) | 2,4-DIMETHYLPENTANE | | | | | | | | | | | |
| | | 3.317 | 3.431 | 3.019 | 4.306 | 3.048 | 3.033 | 3.100 | 3.686 | 2.682 | 3.291 | 14.47 |
| 48) | 1,1,1-TRICHLOROETHANE | | | | | | | | | | | |
| | | 3.424 | 3.382 | 3.185 | 4.349 | 3.227 | 3.170 | 3.259 | 3.972 | 2.847 | 3.424 | 13.38 |
| 49) | CARBON TETRACHLORIDE | | | | | | | | | | | |
| | | 3.356 | 3.427 | 3.303 | 4.076 | 3.245 | 3.233 | 3.388 | 4.036 | 2.960 | 3.447 | 10.76 |
| 50) | 1,2-DICHLOROETHANE | | | | | | | | | | | |
| | | 2.549 | 2.558 | 2.245 | 3.647 | 2.335 | 2.262 | 2.315 | 2.980 | 1.994 | 2.543 | 19.54 |
| 51) | BENZENE | | | | | | | | | | | |
| | | 4.908 | 5.221 | 4.570 | 7.208 | 4.699 | 4.591 | 4.685 | 6.165 | 4.057 | 5.123 | 19.01 |
| 52) | I 1,4-DIFLUOROBENZENE | ---------- | | | | ISTD | | | | | | |
| 53) | CYCLOHEXANE | | | | | | | | | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0.394 | 0.377 | 0.408 | 0.538 | 0.379 | 0.378 | 0.391 | 0.414 | 0.427 | 0.412 | 12.23 |
| 54) | 2,3-DIMETHYLPENTANE | | | | | | | | | | | |
| | | 0.207 | 0.201 | 0.213 | | 0.199 | 0.197 | 0.204 | 0.240 | 0.220 | 0.210 | 6.82 |
| 55) | TRICHLOROETHENE | | | | | | | | | | | |
| | | 0.423 | 0.431 | 0.424 | 0.484 | 0.388 | 0.388 | 0.403 | 0.450 | 0.439 | 0.426 | 7.20 |
| 56) | 1,2-DICHLOROPROPANE | | | | | | | | | | | |
| | | 0.362 | 0.358 | 0.373 | | 0.348 | 0.344 | 0.359 | 0.400 | 0.389 | 0.367 | 5.32 |
| 57) | DIBROMOMETHANE | | | | | | | | | | | |
| | | 0.410 | 0.437 | 0.390 | 0.507 | 0.356 | 0.359 | 0.372 | 0.455 | 0.406 | 0.410 | 12.02 |
| 58) | ETHYL ACRYLATE | | | | | | | | | | | |
| | | 0.684 | 0.660 | 0.846 | 0.912 | 0.748 | 0.775 | 0.808 | 0.726 | 0.878 | 0.782 | 11.04 |
| 59) | BROMODICHLOROMETHANE | | | | | | | | | | | |
| | | 0.657 | 0.677 | 0.725 | 0.795 | 0.662 | 0.670 | 0.691 | 0.712 | 0.754 | 0.705 | 6.58 |
| 60) | 2,2,4-TRIMETHYLPENTANE | | | | | | | | | | | |
| | | 1.658 | 1.692 | 1.671 | 2.091 | 1.545 | 1.550 | 1.600 | 1.847 | 1.733 | 1.710 | 10.00 |
| 61) | 1,4-DIOXANE | | | | | | | | | | | |
| | | 0.182 | 0.179 | 0.223 | | 0.207 | 0.209 | 0.214 | 0.135 | 0.234 | 0.198 | 15.91 |
| 62) | HEPTANE | | | | | | | | | | | |
| | | 0.590 | 0.688 | 0.627 | 0.826 | 0.581 | 0.586 | 0.606 | 0.674 | 0.650 | 0.648 | 11.92 |
| 63) | METHYL METHACRYLATE | | | | | | | | | | | |
| | | 0.316 | 0.311 | 0.372 | | 0.333 | 0.339 | 0.358 | 0.327 | 0.386 | 0.343 | 7.87 |
| 64) | METHYL ISOBUTYL KETONE | | | | | | | | | | | |
| | | 0.269 | 0.247 | 0.329 | | 0.305 | 0.306 | 0.317 | 0.293 | 0.342 | 0.301 | 10.39 |
| 65) | CIS-1,3-DICHLOROPROPENE | | | | | | | | | | | |
| | | 0.518 | 0.490 | 0.574 | 0.629 | 0.505 | 0.521 | 0.543 | 0.560 | 0.601 | 0.549 | 8.37 |
| 66) | TOLUENE | | | | | | | | | | | |
| | | 1.115 | 1.244 | 1.147 | 1.494 | 1.043 | 1.065 | 1.095 | 1.262 | 1.190 | 1.184 | 11.73 |
| 67) | 1,3-DICHLOROPROPANE | | | | | | | | | | | |
| | | 0.587 | 0.575 | 0.591 | 0.752 | 0.544 | 0.552 | 0.565 | 0.643 | 0.613 | 0.602 | 10.57 |
| 68) | TRANS-1,3-DICHLOROPROPENE | | | | | | | | | | | |
| | | 0.447 | 0.483 | 0.544 | 0.608 | 0.471 | 0.478 | 0.511 | 0.549 | 0.570 | 0.518 | 10.23 |
| 69) | 1,1,2-TRICHLOROETHANE | | | | | | | | | | | |
| | | 0.355 | 0.368 | 0.349 | 0.407 | 0.325 | 0.321 | 0.333 | 0.358 | 0.360 | 0.353 | 7.37 |
| 70) | 2-HEXANONE | | | | | | | | | | | |
| | | 0.161 | 0.155 | 0.412 | | 0.373 | 0.379 | 0.397 | | 0.429 | 0.329 | 36.04 |
| 71) | ETHYL METHACRYLATE | | | | | | | | | | | |
| | | 0.409 | 0.423 | 0.600 | 0.580 | 0.536 | 0.545 | 0.569 | 0.395 | 0.631 | 0.521 | 17.06 |
| 72) | TETRACHLOROETHENE | | | | | | | | | | | |
| | | 0.440 | 0.412 | 0.430 | 0.491 | 0.393 | 0.397 | 0.408 | 0.468 | 0.448 | 0.432 | 7.66 |
| 73) | DIBROMOCHLOROMETHANE | | | | | | | | | | | |
| | | 0.624 | 0.595 | 0.734 | 0.693 | 0.633 | 0.654 | 0.692 | 0.632 | 0.767 | 0.669 | 8.41 |
| 74) | 1,2-DIBROMOETHANE | | | | | | | | | | | |
| | | 0.616 | 0.621 | 0.637 | 0.722 | 0.583 | 0.586 | 0.610 | 0.686 | 0.664 | 0.636 | 7.30 |
| 75) | OCTANE | | | | | | | | | | | |
| | | 0.861 | 0.838 | 0.881 | 1.092 | 0.801 | 0.818 | 0.844 | 1.022 | 0.913 | 0.897 | 10.96 |
| 76) | I CHLOROBENZENE-D5 | ---------- | | | | ISTD | | | | | | |
| 77) | 1,1,1,2-TETRACHLOROETHANE | | | | | | | | | | | |
| | | 0.522 | 0.529 | 0.574 | 0.587 | 0.500 | 0.513 | 0.542 | 0.552 | 0.600 | 0.547 | 6.29 |
| 78) | CHLOROBENZENE | | | | | | | | | | | |
| | | 1.049 | 1.105 | 1.073 | 1.190 | 0.974 | 0.975 | 1.022 | 1.211 | 1.118 | 1.080 | 7.89 |
| 79) | ETHYLBENZENE | | | | | | | | | | | |
| | | 1.707 | 1.703 | 1.764 | 2.305 | 1.590 | 1.609 | 1.688 | 1.862 | 1.829 | 1.784 | 12.05 |
| 80) | M,P-XYLENE | | | | | | | | | | | |
| | | 1.293 | 1.295 | 1.366 | 1.609 | 1.220 | 1.246 | 1.302 | 1.401 | 1.416 | 1.350 | 8.72 |
| 81) | O-XYLENE | | | | | | | | | | | |
| | | 1.323 | 1.360 | 1.383 | 1.766 | 1.239 | 1.271 | 1.317 | 1.451 | 1.443 | 1.395 | 11.21 |
| 82) | STYRENE | | | | | | | | | | | |
| | | 0.877 | 0.900 | 1.061 | 1.033 | 0.934 | 0.959 | 1.009 | 0.963 | 1.101 | 0.982 | 7.62 |
| 83) | NONANE | | | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.063 | 1.041 | 1.067 | 0.972 | 0.991 | 1.022 | 1.118 | 1.104 | 1.047 | 4.88 |
| 84) | BROMOFORM | | | | | | | | | | |
| | 0.564 | 0.568 | 0.801 | 0.733 | 0.658 | 0.695 | 0.748 | 0.622 | 0.838 | 0.692 | 14.08 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | | | | | | | | | | |
| | 1.062 | 1.054 | 1.087 | 1.254 | 0.965 | 0.983 | 1.031 | 1.108 | 1.132 | 1.075 | 8.02 |
| 86) | 1,2,3-TRICHLOROPROPANE | | | | | | | | | | |
| | 0.781 | 0.800 | 0.807 | 0.939 | 0.728 | 0.736 | 0.770 | 0.840 | 0.838 | 0.804 | 7.96 |
| 87) | 4-BROMOFLUOROBENZENE | | | | | | | | | | |
| | 0.699 | 0.688 | 0.715 | 0.698 | 0.698 | 0.702 | 0.701 | 0.692 | 0.720 | 0.702 | 1.47 |
| 88) | ISOPROPYLBENZENE | | | | | | | | | | |
| | 0.515 | 0.530 | 0.543 | 0.630 | 0.478 | 0.494 | 0.513 | 0.504 | 0.565 | 0.530 | 8.61 |
| 89) | BROMOBENZENE | | | | | | | | | | |
| | 0.988 | 1.034 | 1.004 | 1.262 | 0.902 | 0.914 | 0.965 | 1.095 | 1.050 | 1.024 | 10.61 |
| 90) | 2-CHLOROTOLUENE | | | | | | | | | | |
| | 0.476 | 0.437 | 0.492 | 0.433 | 0.441 | 0.469 | 0.462 | 0.510 | 0.465 | 5.85 |
| 91) | N-PROPYLBENZENE | | | | | | | | | | |
| | 0.527 | 0.548 | 0.552 | 0.481 | 0.504 | 0.524 | 0.553 | 0.576 | 0.533 | 5.71 |
| 92) | 4-ETHYLTOLUENE | | | | | | | | | | |
| | 1.764 | 1.749 | 2.077 | 2.164 | 1.769 | 1.844 | 1.943 | 1.945 | 2.164 | 1.935 | 8.67 |
| 93) | 1,3,5-TRIMETHYLBENZENE | | | | | | | | | | |
| | 1.492 | 1.465 | 1.747 | 1.874 | 1.457 | 1.492 | 1.616 | 1.625 | 1.807 | 1.619 | 9.73 |
| 94) | ALPHA-METHYLSTYRENE | | | | | | | | | | |
| | 0.644 | 0.643 | 0.881 | 0.731 | 0.729 | 0.759 | 0.819 | 0.662 | 0.920 | 0.754 | 13.40 |
| 95) | TERT-BUTYLBENZENE | | | | | | | | | | |
| | 0.377 | 0.406 | 0.435 | 0.553 | 0.361 | 0.383 | 0.396 | 0.411 | 0.462 | 0.420 | 13.87 |
| 96) | 1,2,4-TRIMETHYLBENZENE | | | | | | | | | | |
| | 1.501 | 1.538 | 1.911 | 1.890 | 1.522 | 1.589 | 1.714 | 1.674 | 2.055 | 1.710 | 11.61 |
| 97) | BENZYL CHLORIDE | | | | | | | | | | |
| | 1.057 | 1.020 | 1.726 | 1.386 | 1.213 | 1.330 | 1.512 | 1.132 | 1.865 | 1.360 | 21.66 |
| 98) | M-DICHLOROBENZENE | | | | | | | | | | |
| | 1.068 | 1.114 | 1.211 | 1.401 | 1.023 | 1.053 | 1.118 | 1.270 | 1.281 | 1.171 | 10.85 |
| 99) | P-DICHLOROBENZENE | | | | | | | | | | |
| | 1.115 | 1.071 | 1.236 | 1.499 | 1.048 | 1.083 | 1.148 | 1.150 | 1.320 | 1.186 | 12.26 |
| 100) | O-DICHLOROBENZENE | | | | | | | | | | |
| | 1.033 | 1.037 | 1.224 | 1.313 | 0.986 | 1.019 | 1.099 | 1.151 | 1.317 | 1.131 | 11.25 |
| 101) | SEC-BUTYLBENZENE | | | | | | | | | | |
| | 0.455 | 0.453 | 0.545 | 0.609 | 0.447 | 0.461 | 0.497 | 0.520 | 0.585 | 0.508 | 11.92 |
| 102) | 1,2,3-TRIMETHYLBENZENE | | | | | | | | | | |
| | 1.495 | 1.485 | 1.839 | 1.979 | 1.476 | 1.534 | 1.662 | 1.631 | 1.929 | 1.670 | 11.86 |
| 103) | P-ISOPROPYLTOLUENE | | | | | | | | | | |
| | 0.522 | 0.557 | 0.631 | 0.614 | 0.506 | 0.537 | 0.585 | 0.540 | 0.684 | 0.575 | 10.13 |
| 104) | N-BUTYLBENZENE | | | | | | | | | | |
| | 0.459 | 0.464 | 0.609 | 0.614 | 0.487 | 0.495 | 0.551 | 0.540 | 0.658 | 0.542 | 13.30 |
| 105) | HEXACHLOROETHANE | | | | | | | | | | |
| | 0.535 | 0.527 | 0.828 | 0.711 | 0.587 | 0.636 | 0.711 | 0.567 | 0.899 | 0.667 | 19.71 |
| 106) | HEXACHLOROBUTADIENE | | | | | | | | | | |
| | 0.824 | 0.808 | 1.251 | 0.973 | 0.827 | 0.871 | 1.022 | 0.980 | 1.377 | 0.992 | 20.16 |
| 107) | 1,2,4-TRICHLOROBENZENE | | | | | | | | | | |
| | 0.963 | 0.987 | 1.396 | 1.278 | 0.989 | 1.052 | 1.185 | 1.061 | 1.537 | 1.161 | 17.53 |
| 108) | NAPHTHALENE | | | | | | | | | | |
| | 2.404 | 2.400 | 3.435 | 3.032 | 2.577 | 2.703 | 2.972 | 2.602 | 3.849 | 2.886 | 17.04 |

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

M6W1077.M Fri Aug 05 09:13:28 2022

# Initial Calibration Verification



**Job Number:** JD54338 **Sample:** V6W1077-ICV1077
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W25328.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\6W25328.D Vial: 4
Acq On : 5 Aug 2022 3:17 am Operator: thomash
Sample : icv1077-10 Inst : GCMS6W
Misc : MS61009,V6W1077,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1077.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 05 08:58:59 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 99 | 0.00 | 3.41 |
| 2 | T | FREON 115 | | ----------NA---------- | | | | |
| 3 | T | FREON 152A | 0.897 | 0.847 | 5.6 | 101 | 0.00 | 1.72 |
| 4 | T | CHLORODIFLUOROMETHANE | 0.403 | 0.378 | 6.2 | 99 | 0.00 | 1.73 |
| 5 | T | CHLOROTRIFLUOROETHENE | 1.953 | 1.891 | 3.2 | 101 | 0.00 | 1.74 |
| 6 | T | DICHLORODIFLUOROMETHANE | 4.793 | 4.888 | -2.0 | 103 | 0.00 | 1.76 |
| 7 | T | PROPYLENE | 1.330 | 1.277 | 4.0 | 105 | 0.00 | 1.74 |
| 8 | T | 1-CHLORO-1,1-DIFLUOROETHA | 5.114 | 4.818 | 5.8 | 102 | 0.00 | 1.79 |
| 9 | T | FREON 114 | 5.218 | 4.933 | 5.5 | 103 | 0.00 | 1.83 |
| 10 | T | CHLOROMETHANE | 0.615 | 0.616 | -0.2 | 100 | 0.00 | 1.80 |
| 11 | T | VINYL CHLORIDE | 2.247 | 2.070 | 7.9 | 103 | 0.00 | 1.86 |
| 12 | t | 1,3-BUTADIENE | 1.663 | 1.658 | 0.3 | 102 | 0.00 | 1.90 |
| 13 | T | N-BUTANE | 3.685 | 3.309 | 10.2 | 101 | 0.00 | 1.91 |
| 14 | T | BROMOMETHANE | 1.802 | 1.631 | 9.5 | 102 | 0.00 | 1.97 |
| 15 | T | CHLOROETHANE | 1.205 | 1.059 | 12.1 | 103 | 0.00 | 2.02 |
| 16 | T | DICHLOROFLUOROMETHANE | 4.641 | 4.318 | 7.0 | 100 | 0.00 | 2.05 |
| 17 | T | ACETONITRILE | 2.157 | 1.922 | 10.9 | 97 | 0.00 | 2.11 |
| 18 | T | ACROLEIN | 0.705 | 0.406 | 42.4# | 52 | 0.00 | 2.15 |
| 19 | T | FREON 123 | 4.466 | 4.268 | 4.4 | 105 | 0.00 | 2.16 |
| 20 | T | FREON 123A | 2.474 | 2.493 | -0.8 | 111 | 0.00 | 2.18 |
| 21 | T | TRICHLOROFLUOROMETHANE | 5.173 | 4.894 | 5.4 | 102 | 0.00 | 2.25 |
| 22 | T | ISOPROPYL ALCOHOL | 4.707 | 4.564 | 3.0 | 100 | 0.00 | 2.26 |
| 23 | T | ACETONE | 1.299 | 1.409 | -8.5 | 119 | 0.00 | 2.19 |
| 24 | T | PENTANE | 2.415 | 2.368 | 1.9 | 104 | 0.00 | 2.36 |
| 25 | T | IODOMETHANE | 4.712 | 4.414 | 6.3 | 101 | 0.00 | 2.42 |
| 26 | T | 1,1-DICHLOROETHYLENE | 1.881 | 1.746 | 7.2 | 103 | 0.00 | 2.45 |
| 27 | T | CARBON DISULFIDE | 5.867 | 5.118 | 12.8 | 95 | 0.00 | 2.59 |
| 28 | T | ETHANOL | 1.057 | 1.135 | -7.4 | 111 | 0.00 | 2.05 |
| 29 | T | BROMOETHENE | 1.752 | 1.658 | 5.4 | 103 | 0.00 | 2.12 |
| 30 | T | ACRYLONITRILE | 1.635 | 1.536 | 6.1 | 99 | 0.00 | 2.33 |
| 31 | T | METHYLENE CHLORIDE | 1.776 | 1.620 | 8.8 | 101 | 0.00 | 2.49 |
| 32 | T | 3-CHLOROPROPENE | 1.033 | 0.939 | 9.1 | 104 | 0.00 | 2.53 |
| 33 | T | FREON 113 | 3.085 | 2.850 | 7.6 | 100 | 0.00 | 2.59 |
| 34 | T | TRANS-1,2-DICHLOROETHENE | 2.117 | 1.872 | 11.6 | 99 | 0.00 | 2.85 |
| 35 | T | TERTIARY BUTYL ALCOHOL | 5.252 | 4.399 | 16.2 | 91 | 0.00 | 2.46 |
| 36 | t | METHYL TERTIARY BUTYL ETH | 6.172 | 5.707 | 7.5 | 101 | 0.00 | 2.97 |
| 37 | T | TETRAHYDROFURAN | 0.722 | 0.722 | 0.0 | 97 | 0.00 | 3.72 |
| 38 | T | HEXANE | 2.889 | 2.716 | 6.0 | 103 | 0.00 | 3.47 |
| 39 | T | VINYL ACETATE | 0.518 | 0.469 | 9.5 | 95 | 0.00 | 3.01 |
| 40 | T | 1,1-DICHLOROETHANE | 4.032 | 3.797 | 5.8 | 102 | 0.00 | 2.93 |
| 41 | T | METHYL ETHYL KETONE | 1.017 | 1.025 | -0.8 | 101 | 0.00 | 3.12 |
| 42 | T | CIS-1,2-DICHLOROETHENE | 1.684 | 1.587 | 5.8 | 101 | 0.00 | 3.33 |

# Initial Calibration Verification

**Job Number:** JD54338 **Sample:** V6W1077-ICV1077
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W25328.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 43 | T | DIISOPROPYL ETHER | 0.828 | 0.828 | 0.0 | 102 | 0.00 | 3.47 |
| 44 | T | ETHYL ACETATE | 0.558 | 0.571 | -2.3 | 102 | 0.00 | 3.48 |
| 45 | T | METHYL ACRYLATE | 3.539 | 3.364 | 4.9 | 100 | 0.00 | 3.46 |
| 46 | T | CHLOROFORM | 3.530 | 3.228 | 8.6 | 99 | 0.00 | 3.50 |
| 47 | T | 2,4-DIMETHYLPENTANE | 3.291 | 3.103 | 5.7 | 102 | 0.00 | 4.02 |
| 48 | T | 1,1,1-TRICHLOROETHANE | 3.424 | 3.222 | 5.9 | 101 | 0.00 | 4.11 |
| 49 | T | CARBON TETRACHLORIDE | 3.447 | 3.272 | 5.1 | 100 | 0.00 | 4.56 |
| 50 | T | 1,2-DICHLOROETHANE | 2.543 | 2.336 | 8.1 | 102 | 0.00 | 3.93 |
| 51 | t | BENZENE | 5.123 | 4.674 | 8.8 | 101 | 0.00 | 4.44 |
| 52 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 98 | 0.00 | 4.79 |
| 53 | T | CYCLOHEXANE | 0.412 | 0.395 | 4.1 | 103 | 0.00 | 4.67 |
| 54 | T | 2,3-DIMETHYLPENTANE | 0.210 | 0.205 | 2.4 | 102 | 0.00 | 4.94 |
| 55 | T | TRICHLOROETHENE | 0.426 | 0.403 | 5.4 | 102 | 0.00 | 5.40 |
| 56 | T | 1,2-DICHLOROPROPANE | 0.367 | 0.355 | 3.3 | 101 | 0.00 | 5.16 |
| 57 | T | DIBROMOMETHANE | 0.410 | 0.375 | 8.5 | 102 | 0.00 | 5.12 |
| 58 | T | ETHYL ACRYLATE | 0.782 | 0.775 | 0.9 | 98 | 0.00 | 5.28 |
| 59 | T | BROMODICHLOROMETHANE | 0.705 | 0.684 | 3.0 | 100 | 0.00 | 5.35 |
| 60 | T | 2,2,4-TRIMETHYLPENTANE | 1.710 | 1.616 | 5.5 | 102 | 0.00 | 5.50 |
| 61 | T | 1,4-DIOXANE | 0.198 | 0.213 | -7.6 | 100 | 0.00 | 5.42 |
| 62 | T | HEPTANE | 0.648 | 0.615 | 5.1 | 103 | 0.00 | 5.83 |
| 63 | T | METHYL METHACRYLATE | 0.343 | 0.345 | -0.6 | 100 | 0.00 | 5.73 |
| 64 | T | METHYL ISOBUTYL KETONE | 0.301 | 0.305 | -1.3 | 98 | 0.00 | 6.50 |
| 65 | T | CIS-1,3-DICHLOROPROPENE | 0.549 | 0.563 | -2.6 | 106 | 0.00 | 6.39 |
| 66 | T | TOLUENE | 1.184 | 1.098 | 7.3 | 101 | 0.00 | 7.65 |
| 67 | T | 1,3-DICHLOROPROPANE | 0.602 | 0.556 | 7.6 | 99 | 0.00 | 7.71 |
| 68 | T | TRANS-1,3-DICHLOROPROPENE | 0.518 | 0.485 | 6.4 | 99 | 0.00 | 7.10 |
| 69 | T | 1,1,2-TRICHLOROETHANE | 0.353 | 0.327 | 7.4 | 100 | 0.00 | 7.27 |
| 70 | T | 2-HEXANONE | 0.329 | 0.318 | 3.3 | 82 | 0.00 | 8.24 |
| 71 | T | ETHYL METHACRYLATE | 0.521 | 0.551 | -5.8 | 99 | 0.00 | 8.38 |
| 72 | T | TETRACHLOROETHENE | 0.432 | 0.407 | 5.8 | 100 | 0.00 | 9.44 |
| 73 | T | DIBROMOCHLOROMETHANE | 0.669 | 0.653 | 2.4 | 98 | 0.00 | 8.22 |
| 74 | T | 1,2-DIBROMOETHANE | 0.636 | 0.600 | 5.7 | 100 | 0.00 | 8.57 |
| 75 | T | OCTANE | 0.897 | 0.842 | 6.1 | 101 | 0.00 | 9.59 |
| 76 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 98 | 0.00 | 10.61 |
| 77 | T | 1,1,1,2-TETRACHLOROETHANE | 0.547 | 0.527 | 3.7 | 100 | 0.00 | 10.70 |
| 78 | T | CHLOROBENZENE | 1.080 | 1.011 | 6.4 | 101 | 0.00 | 10.69 |
| 79 | t | ETHYLBENZENE | 1.784 | 1.632 | 8.5 | 99 | 0.00 | 11.59 |
| 80 | t | M,P-XYLENE | 1.350 | 1.274 | 5.6 | 100 | 0.00 | 12.02 |
| 81 | t | O-XYLENE | 1.395 | 1.300 | 6.8 | 100 | 0.00 | 12.98 |
| 82 | T | STYRENE | 0.982 | 0.977 | 0.5 | 100 | 0.00 | 12.76 |
| 83 | T | NONANE | 1.047 | 1.008 | 3.7 | 100 | 0.00 | 14.10 |
| 84 | T | BROMOFORM | 0.692 | 0.683 | 1.3 | 96 | 0.00 | 11.84 |
| 85 | T | 1,1,2,2-TETRACHLOROETHANE | 1.075 | 1.007 | 6.3 | 100 | 0.00 | 13.00 |
| 86 | T | 1,2,3-TRICHLOROPROPANE | 0.804 | 0.747 | 7.1 | 99 | 0.00 | 13.28 |
| 87 | S | 4-BROMOFLUOROBENZENE | 0.702 | 0.703 | -0.1 | 98 | 0.00 | 14.03 |
| 88 | T | ISOPROPYLBENZENE | 0.530 | 0.516 | 2.6 | 102 | 0.00 | 14.51 |
| 89 | T | BROMOBENZENE | 1.024 | 0.926 | 9.6 | 99 | 0.00 | 14.38 |
| 90 | T | 2-CHLOROTOLUENE | 0.465 | 0.444 | 4.5 | 98 | 0.00 | 15.53 |
| 91 | T | N-PROPYLBENZENE | 0.533 | 0.512 | 3.9 | 99 | 0.00 | 15.87 |
| 92 | T | 4-ETHYLTOLUENE | 1.935 | 1.886 | 2.5 | 100 | 0.00 | 16.21 |
| 93 | T | 1,3,5-TRIMETHYLBENZENE | 1.619 | 1.547 | 4.4 | 101 | 0.00 | 16.35 |
| 94 | T | ALPHA-METHYLSTYRENE | 0.754 | 0.714 | 5.3 | 92 | 0.00 | 16.55 |
| 95 | T | TERT-BUTYLBENZENE | 0.420 | 0.376 | 10.5 | 96 | 0.00 | 16.80 |
| 96 | T | 1,2,4-TRIMETHYLBENZENE | 1.710 | 1.596 | 6.7 | 98 | 0.00 | 16.81 |
| 97 | T | BENZYL CHLORIDE | 1.360 | 1.135 | 16.5 | 84 | 0.00 | 16.89 |
| 98 | T | M-DICHLOROBENZENE | 1.171 | 1.054 | 10.0 | 98 | 0.00 | 16.87 |
| 99 | T | P-DICHLOROBENZENE | 1.186 | 1.073 | 9.5 | 97 | 0.00 | 16.95 |
| 100 | T | O-DICHLOROBENZENE | 1.131 | 1.015 | 10.3 | 97 | 0.00 | 17.24 |

# Initial Calibration Verification

**Job Number:** JD54338 **Sample:** V6W1077-ICV1077
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W25328.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 101 | T | SEC-BUTYLBENZENE | 0.508 | 0.472 | 7.1 | 100 | 0.00 | 17.08 |
| 102 | T | 1,2,3-TRIMETHYLBENZENE | 1.670 | 1.531 | 8.3 | 98 | 0.00 | 17.19 |
| 103 | T | P-ISOPROPYLTOLUENE | 0.575 | 0.514 | 10.6 | 94 | 0.00 | 17.25 |
| 104 | T | N-BUTYLBENZENE | 0.542 | 0.498 | 8.1 | 99 | 0.00 | 17.59 |
| 105 | T | HEXACHLOROETHANE | 0.667 | 0.622 | 6.7 | 96 | 0.00 | 17.77 |
| 106 | T | HEXACHLOROBUTADIENE | 0.992 | 0.822 | 17.1 | 92 | -0.01 | 18.80 |
| 107 | T | 1,2,4-TRICHLOROBENZENE | 1.161 | 0.908 | 21.8 | 84 | -0.01 | 18.50 |
| 108 | T | NAPHTHALENE | 2.886 | 2.168 | 24.9 | 78 | -0.01 | 18.55 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6W25322.D M6W1077.M Fri Aug 05 09:12:54 2022

# Continuing Calibration Summary



**Job Number:** JD54338 **Sample:** V6W1083-CC1077
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W25439.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\6W25439.D Vial: 2
Acq On : 11 Aug 2022 8:20 am Operator: thomash
Sample : cc1077-10 Inst : GCMS6W
Misc : MS61233,V6W1083,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1077.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 05 08:58:59 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 126 | 0.00 | 3.42 |
| 2 | T | FREON 115 | | ----------NA---------- | | | | |
| 3 | T | FREON 152A | 0.897 | 0.775 | 13.6 | 118 | 0.00 | 1.72 |
| 4 | T | CHLORODIFLUOROMETHANE | 0.403 | 0.356 | 11.7 | 119 | 0.00 | 1.73 |
| 5 | T | CHLOROTRIFLUOROETHENE | 1.953 | 1.948 | 0.3 | 132 | 0.00 | 1.74 |
| 6 | T | DICHLORODIFLUOROMETHANE | 4.793 | 5.665 | -18.2 | 152# | 0.00 | 1.76 |
| 7 | T | PROPYLENE | 1.330 | 0.986 | 25.9 | 103 | 0.00 | 1.74 |
| 8 | T | 1-CHLORO-1,1-DIFLUOROETHA | 5.114 | 4.496 | 12.1 | 121 | 0.00 | 1.79 |
| 9 | T | FREON 114 | 5.218 | 5.253 | -0.7 | 139 | 0.00 | 1.83 |
| 10 | T | CHLOROMETHANE | 0.615 | 0.578 | 6.0 | 119 | 0.00 | 1.80 |
| 11 | T | VINYL CHLORIDE | 2.247 | 1.990 | 11.4 | 126 | 0.00 | 1.86 |
| 12 | t | 1,3-BUTADIENE | 1.663 | 1.563 | 6.0 | 123 | 0.00 | 1.90 |
| 13 | T | N-BUTANE | 3.685 | 2.983 | 19.1 | 116 | 0.00 | 1.91 |
| 14 | T | BROMOMETHANE | 1.802 | 1.759 | 2.4 | 140 | 0.00 | 1.97 |
| 15 | T | CHLOROETHANE | 1.205 | 1.024 | 15.0 | 126 | 0.00 | 2.02 |
| 16 | T | DICHLOROFLUOROMETHANE | 4.641 | 4.315 | 7.0 | 127 | 0.00 | 2.05 |
| 17 | T | ACETONITRILE | 2.157 | 1.752 | 18.8 | 112 | 0.00 | 2.11 |
| 18 | T | ACROLEIN | 0.705 | 0.719 | -2.0 | 117 | 0.00 | 2.15 |
| 19 | T | FREON 123 | 4.466 | 4.340 | 2.8 | 135 | 0.00 | 2.16 |
| 20 | T | FREON 123A | 2.474 | 2.457 | 0.7 | 140 | 0.00 | 2.18 |
| 21 | T | TRICHLOROFLUOROMETHANE | 5.173 | 4.962 | 4.1 | 132 | 0.00 | 2.24 |
| 22 | T | ISOPROPYL ALCOHOL | 4.707 | 4.000 | 15.0 | 112 | 0.00 | 2.26 |
| 23 | T | ACETONE | 1.299 | 1.154 | 11.2 | 124 | 0.00 | 2.19 |
| 24 | T | PENTANE | 2.415 | 2.004 | 17.0 | 112 | 0.00 | 2.36 |
| 25 | T | IODOMETHANE | 4.712 | 5.011 | -6.3 | 146 | 0.00 | 2.42 |
| 26 | T | 1,1-DICHLOROETHYLENE | 1.881 | 1.808 | 3.9 | 135 | 0.00 | 2.45 |
| 27 | T | CARBON DISULFIDE | 5.867 | 5.780 | 1.5 | 136 | 0.00 | 2.59 |
| 28 | T | ETHANOL | 1.057 | 0.936 | 11.4 | 117 | 0.00 | 2.05 |
| 29 | T | BROMOETHENE | 1.752 | 1.770 | -1.0 | 139 | 0.00 | 2.12 |
| 30 | T | ACRYLONITRILE | 1.635 | 1.454 | 11.1 | 119 | 0.00 | 2.33 |
| 31 | T | METHYLENE CHLORIDE | 1.776 | 1.737 | 2.2 | 137 | 0.00 | 2.49 |
| 32 | T | 3-CHLOROPROPENE | 1.033 | 0.956 | 7.5 | 135 | 0.00 | 2.53 |
| 33 | T | FREON 113 | 3.085 | 3.361 | -8.9 | 149 | 0.00 | 2.59 |
| 34 | T | TRANS-1,2-DICHLOROETHENE | 2.117 | 2.053 | 3.0 | 138 | 0.00 | 2.85 |
| 35 | T | TERTIARY BUTYL ALCOHOL | 5.252 | 4.245 | 19.2 | 112 | 0.00 | 2.46 |
| 36 | t | METHYL TERTIARY BUTYL ETH | 6.172 | 5.550 | 10.1 | 125 | 0.00 | 2.97 |
| 37 | T | TETRAHYDROFURAN | 0.722 | 0.690 | 4.4 | 118 | 0.00 | 3.72 |
| 38 | T | HEXANE | 2.889 | 2.318 | 19.8 | 112 | 0.00 | 3.47 |
| 39 | T | VINYL ACETATE | 0.518 | 0.550 | -6.2 | 142 | 0.00 | 3.01 |
| 40 | T | 1,1-DICHLOROETHANE | 4.032 | 3.827 | 5.1 | 130 | 0.00 | 2.93 |
| 41 | T | METHYL ETHYL KETONE | 1.017 | 1.093 | -7.5 | 137 | 0.00 | 3.12 |
| 42 | T | CIS-1,2-DICHLOROETHENE | 1.684 | 1.526 | 9.4 | 123 | 0.00 | 3.33 |

# Continuing Calibration Summary

**Job Number:** JD54338 **Sample:** V6W1083-CC1077
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W25439.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 43 | T | DIISOPROPYL ETHER | 0.828 | 0.696 | 15.9 | 109 | 0.00 | 3.48 |
| 44 | T | ETHYL ACETATE | 0.558 | 0.489 | 12.4 | 110 | 0.00 | 3.48 |
| 45 | T | METHYL ACRYLATE | 3.539 | 2.970 | 16.1 | 112 | 0.00 | 3.47 |
| 46 | T | CHLOROFORM | 3.530 | 3.253 | 7.8 | 126 | 0.00 | 3.50 |
| 47 | T | 2,4-DIMETHYLPENTANE | 3.291 | 2.674 | 18.7 | 111 | 0.00 | 4.02 |
| 48 | T | 1,1,1-TRICHLOROETHANE | 3.424 | 3.037 | 11.3 | 121 | 0.00 | 4.11 |
| 49 | T | CARBON TETRACHLORIDE | 3.447 | 3.193 | 7.4 | 124 | 0.00 | 4.56 |
| 50 | T | 1,2-DICHLOROETHANE | 2.543 | 2.036 | 19.9 | 113 | 0.00 | 3.94 |
| 51 | t | BENZENE | 5.123 | 4.455 | 13.0 | 122 | 0.00 | 4.44 |
| 52 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 121 | 0.00 | 4.79 |
| 53 | T | CYCLOHEXANE | 0.412 | 0.377 | 8.5 | 121 | 0.00 | 4.67 |
| 54 | T | 2,3-DIMETHYLPENTANE | 0.210 | 0.197 | 6.2 | 121 | 0.00 | 4.94 |
| 55 | T | TRICHLOROETHENE | 0.426 | 0.400 | 6.1 | 125 | 0.00 | 5.40 |
| 56 | T | 1,2-DICHLOROPROPANE | 0.367 | 0.337 | 8.2 | 119 | 0.00 | 5.16 |
| 57 | T | DIBROMOMETHANE | 0.410 | 0.416 | -1.5 | 141 | 0.00 | 5.12 |
| 58 | T | ETHYL ACRYLATE | 0.782 | 0.693 | 11.4 | 108 | 0.00 | 5.28 |
| 59 | T | BROMODICHLOROMETHANE | 0.705 | 0.675 | 4.3 | 122 | 0.00 | 5.35 |
| 60 | T | 2,2,4-TRIMETHYLPENTANE | 1.710 | 1.434 | 16.1 | 112 | 0.00 | 5.50 |
| 61 | T | 1,4-DIOXANE | 0.198 | 0.218 | -10.1 | 126 | 0.00 | 5.42 |
| 62 | T | HEPTANE | 0.648 | 0.488 | 24.7 | 101 | 0.00 | 5.83 |
| 63 | T | METHYL METHACRYLATE | 0.343 | 0.325 | 5.2 | 116 | 0.00 | 5.73 |
| 64 | T | METHYL ISOBUTYL KETONE | 0.301 | 0.290 | 3.7 | 115 | 0.00 | 6.50 |
| 65 | T | CIS-1,3-DICHLOROPROPENE | 0.549 | 0.503 | 8.4 | 117 | 0.00 | 6.39 |
| 66 | T | TOLUENE | 1.184 | 1.059 | 10.6 | 121 | 0.00 | 7.65 |
| 67 | T | 1,3-DICHLOROPROPANE | 0.602 | 0.549 | 8.8 | 121 | 0.00 | 7.72 |
| 68 | T | TRANS-1,3-DICHLOROPROPENE | 0.518 | 0.445 | 14.1 | 113 | 0.00 | 7.10 |
| 69 | T | 1,1,2-TRICHLOROETHANE | 0.353 | 0.332 | 5.9 | 125 | 0.00 | 7.27 |
| 70 | T | 2-HEXANONE | 0.329 | 0.356 | -8.2 | 114 | 0.00 | 8.24 |
| 71 | T | ETHYL METHACRYLATE | 0.521 | 0.531 | -1.9 | 118 | 0.00 | 8.38 |
| 72 | T | TETRACHLOROETHENE | 0.432 | 0.447 | -3.5 | 136 | 0.00 | 9.44 |
| 73 | T | DIBROMOCHLOROMETHANE | 0.669 | 0.694 | -3.7 | 129 | 0.00 | 8.22 |
| 74 | T | 1,2-DIBROMOETHANE | 0.636 | 0.603 | 5.2 | 125 | 0.00 | 8.57 |
| 75 | T | OCTANE | 0.897 | 0.696 | 22.4 | 103 | 0.00 | 9.59 |
| 76 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 118 | 0.00 | 10.60 |
| 77 | T | 1,1,1,2-TETRACHLOROETHANE | 0.547 | 0.571 | -4.4 | 131 | 0.00 | 10.70 |
| 78 | T | CHLOROBENZENE | 1.080 | 1.041 | 3.6 | 126 | 0.00 | 10.69 |
| 79 | t | ETHYLBENZENE | 1.784 | 1.637 | 8.2 | 120 | 0.00 | 11.58 |
| 80 | t | M,P-XYLENE | 1.350 | 1.275 | 5.6 | 121 | 0.00 | 12.03 |
| 81 | t | O-XYLENE | 1.395 | 1.298 | 7.0 | 120 | 0.00 | 12.98 |
| 82 | T | STYRENE | 0.982 | 0.975 | 0.7 | 120 | 0.00 | 12.76 |
| 83 | T | NONANE | 1.047 | 0.876 | 16.3 | 104 | 0.00 | 14.10 |
| 84 | T | BROMOFORM | 0.692 | 0.795 | -14.9 | 135 | 0.00 | 11.84 |
| 85 | T | 1,1,2,2-TETRACHLOROETHANE | 1.075 | 1.053 | 2.0 | 126 | 0.00 | 13.00 |
| 86 | T | 1,2,3-TRICHLOROPROPANE | 0.804 | 0.767 | 4.6 | 123 | 0.00 | 13.28 |
| 87 | S | 4-BROMOFLUOROBENZENE | 0.702 | 0.672 | 4.3 | 113 | 0.00 | 14.03 |
| 88 | T | ISOPROPYLBENZENE | 0.530 | 0.528 | 0.4 | 126 | 0.00 | 14.51 |
| 89 | T | BROMOBENZENE | 1.024 | 0.936 | 8.6 | 121 | 0.00 | 14.39 |
| 90 | T | 2-CHLOROTOLUENE | 0.465 | 0.469 | -0.9 | 125 | 0.00 | 15.53 |
| 91 | T | N-PROPYLBENZENE | 0.533 | 0.535 | -0.4 | 125 | 0.00 | 15.87 |
| 92 | T | 4-ETHYLTOLUENE | 1.935 | 1.926 | 0.5 | 123 | 0.00 | 16.21 |
| 93 | T | 1,3,5-TRIMETHYLBENZENE | 1.619 | 1.595 | 1.5 | 126 | 0.00 | 16.35 |
| 94 | T | ALPHA-METHYLSTYRENE | 0.754 | 0.813 | -7.8 | 126 | 0.00 | 16.55 |
| 95 | T | TERT-BUTYLBENZENE | 0.420 | 0.422 | -0.5 | 130 | 0.00 | 16.80 |
| 96 | T | 1,2,4-TRIMETHYLBENZENE | 1.710 | 1.688 | 1.3 | 125 | 0.00 | 16.81 |
| 97 | T | BENZYL CHLORIDE | 1.360 | 1.086 | 20.1 | 96 | 0.00 | 16.89 |
| 98 | T | M-DICHLOROBENZENE | 1.171 | 1.213 | -3.6 | 136 | 0.00 | 16.87 |
| 99 | T | P-DICHLOROBENZENE | 1.186 | 1.233 | -4.0 | 134 | 0.00 | 16.95 |
| 100 | T | O-DICHLOROBENZENE | 1.131 | 1.192 | -5.4 | 138 | 0.00 | 17.24 |

# Continuing Calibration Summary

**Job Number:** JD54338 **Sample:** V6W1083-CC1077
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W25439.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 101 | T | SEC-BUTYLBENZENE | 0.508 | 0.538 | -5.9 | 137 | 0.00 | 17.08 |
| 102 | T | 1,2,3-TRIMETHYLBENZENE | 1.670 | 1.663 | 0.4 | 128 | 0.00 | 17.19 |
| 103 | T | P-ISOPROPYLTOLUENE | 0.575 | 0.609 | -5.9 | 134 | 0.00 | 17.25 |
| 104 | T | N-BUTYLBENZENE | 0.542 | 0.578 | -6.6 | 138 | 0.00 | 17.60 |
| 105 | T | HEXACHLOROETHANE | 0.667 | 0.667 | 0.0 | 124 | 0.00 | 17.78 |
| 106 | T | HEXACHLOROBUTADIENE | 0.992 | 1.055 | -6.4 | 143 | 0.00 | 18.81 |
| 107 | T | 1,2,4-TRICHLOROBENZENE | 1.161 | 1.295 | -11.5 | 145 | 0.00 | 18.51 |
| 108 | T | NAPHTHALENE | 2.886 | 3.080 | -6.7 | 134 | 0.00 | 18.56 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6W25322.D M6W1077.M Thu Aug 11 14:29:06 2022

# Initial Calibration Summary



**Job Number:** JD54338 **Sample:** V6W1125-ICC1125
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26454.D
**Project:** EPT, Ithaca, NY

Response Factor Report GCMS6W

Method : C:\msdchem\1\methods\M6W1125.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

Calibration Files
0.5 =6W26451.D 0.2 =6W26450.D 40 =6W26456.D 0.04=6W26448.D
5 =6W26453.D 10 =6W26454.D 20 =6W26455.D 0.1 =6W26449.D
50 =6W26457.D =

| Compound | 0.5 | 0.2 | 40 | 0.04 | 5 | 10 | 20 | 0.1 | 50 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) I BROMOCHLOROMETHANE | ----------ISTD---------- | | | | | | | | | | |
| 2) FREON 115 | | | | | | | | | | 0.000 | -1.00 |
| 3) FREON 152A | 0.934 | 0.912 | 0.873 | | 0.829 | 0.811 | 0.827 | | 0.832 | 0.860 | 5.52 |
| 4) CHLORODIFLUOROMETHANE | 0.420 | 0.395 | 0.400 | | 0.382 | 0.370 | 0.376 | | 0.385 | 0.390 | 4.35 |
| 5) CHLOROTRIFLUOROETHENE | 1.960 | 1.906 | 1.955 | | 1.804 | 1.758 | 1.822 | 1.971 | 1.883 | 1.882 | 4.26 |
| 6) DICHLORODIFLUOROMETHANE | 3.357 | 3.217 | 3.294 | 2.916 | 3.054 | 3.026 | 3.039 | 3.162 | 3.076 | 3.127 | 4.54 |
| 7) PROPYLENE | 1.494 | 1.325 | 1.331 | | 1.220 | 1.220 | 1.251 | 1.153 | 1.255 | 1.281 | 8.08 |
| 8) 1-CHLORO-1,1-DIFLUOROETHANE | 2.949 | 2.871 | 3.044 | 2.840 | 2.746 | 2.692 | 2.822 | 2.804 | 3.010 | 2.864 | 4.10 |
| 9) FREON 114 | 3.364 | 3.288 | 3.533 | 3.395 | 3.023 | 3.026 | 3.171 | 3.313 | 3.492 | 3.289 | 5.61 |
| 10) CHLOROMETHANE | 0.492 | 0.442 | 0.457 | 0.570 | 0.419 | 0.412 | 0.419 | 0.409 | 0.446 | 0.452 | 11.43 |
| 11) VINYL CHLORIDE | 1.472 | 1.419 | 1.397 | 1.357 | 1.278 | 1.264 | 1.325 | 1.460 | 1.357 | 1.370 | 5.40 |
| 12) 1,3-BUTADIENE | 1.177 | 1.139 | 1.183 | | 1.064 | 1.040 | 1.097 | 1.090 | 1.171 | 1.120 | 4.91 |
| 13) N-BUTANE | 2.520 | 2.468 | 2.396 | 3.758 | 2.228 | 2.149 | 2.225 | 2.657 | 2.326 | 2.525 | 19.38 |
| 14) BROMOMETHANE | 1.098 | 1.082 | 1.127 | | 1.025 | 0.985 | 1.028 | 1.033 | 1.098 | 1.059 | 4.59 |
| 15) CHLOROETHANE | 0.694 | 0.708 | 0.693 | | 0.640 | 0.623 | 0.647 | 0.564 | 0.679 | 0.656 | 7.24 |
| 16) DICHLOROFLUOROMETHANE | 2.888 | 2.866 | 2.977 | 2.810 | 2.661 | 2.583 | 2.713 | 2.624 | 2.936 | 2.784 | 5.16 |
| 17) ACETONITRILE | 1.581 | 1.552 | 1.473 | | 1.363 | 1.306 | 1.365 | 1.706 | 1.419 | 1.471 | 9.14 |
| 18) ACROLEIN | 0.519 | 0.487 | 0.699 | | 0.628 | 0.616 | 0.634 | | 0.677 | 0.608 | 12.87 |
| 19) FREON 123 | 2.752 | 2.686 | 2.847 | 2.562 | 2.453 | 2.413 | 2.571 | 2.663 | 2.818 | 2.640 | 5.79 |
| 20) FREON 123A | 1.694 | 1.554 | 1.729 | | 1.499 | 1.481 | 1.555 | 1.517 | 1.711 | 1.592 | 6.40 |
| 21) TRICHLOROFLUOROMETHANE | 3.377 | 3.173 | 3.409 | 3.475 | 3.401 | 2.960 | 3.114 | 3.086 | 3.350 | 3.261 | 5.52 |
| 22) ISOPROPYL ALCOHOL | 3.252 | 3.259 | 3.371 | 4.111 | 2.939 | 2.825 | 2.976 | 3.579 | 3.295 | 3.290 | 11.80 |
| 23) ACETONE | | | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.935 | 0.918 | 0.730 | | 0.596 | 0.629 | 0.662 | | 0.713 | 0.740 | 18.27 |
| 24) | PENTANE | | | | | | | | | | |
| | 1.873 | 1.831 | 1.826 | | 1.761 | 1.536 | 1.580 | 1.978 | 1.652 | 1.755 | 8.72 |
| 25) | IODOMETHANE | | | | | | | | | | |
| | 3.299 | 3.098 | 3.499 | 2.835 | 3.391 | 2.905 | 2.919 | 3.162 | 3.183 | 3.143 | 7.27 |
| 26) | 1,1-DICHLOROETHYLENE | | | | | | | | | | |
| | 1.304 | 1.243 | 1.305 | | 1.288 | 1.197 | 1.101 | 1.266 | 1.212 | 1.239 | 5.57 |
| 27) | CARBON DISULFIDE | | | | | | | | | | |
| | 4.087 | 4.029 | 4.165 | 3.889 | 3.954 | 3.777 | 3.604 | 3.841 | 3.999 | 3.927 | 4.36 |
| 28) | ETHANOL | | | | | | | | | | |
| | 1.005 | 0.967 | 0.721 | | 0.635 | 0.625 | 0.661 | | 0.702 | 0.759 | 20.89 |
| 29) | BROMOETHENE | | | | | | | | | | |
| | 1.176 | 1.110 | 1.184 | | 1.028 | 1.032 | 1.078 | 1.119 | 1.157 | 1.110 | 5.48 |
| 30) | ACRYLONITRILE | | | | | | | | | | |
| | 1.248 | 1.048 | 1.187 | | 1.159 | 1.002 | 1.033 | 1.106 | 1.092 | 1.109 | 7.57 |
| 31) | METHYLENE CHLORIDE | | | | | | | | | | |
| | 1.451 | 1.623 | 1.198 | | 1.207 | 1.142 | 1.010 | | 1.073 | 1.243 | 17.49 |
| 32) | 3-CHLOROPROPENE | | | | | | | | | | |
| | 0.650 | 0.568 | 0.653 | | 0.621 | 0.601 | 0.550 | | 0.594 | 0.605 | 6.47 |
| 33) | FREON 113 | | | | | | | | | | |
| | 2.299 | 2.280 | 2.327 | | 2.279 | 2.177 | 1.995 | 2.023 | 2.208 | 2.199 | 5.77 |
| 34) | TRANS-1,2-DICHLOROETHENE | | | | | | | | | | |
| | 1.419 | 1.382 | 1.414 | | 1.399 | 1.343 | 1.303 | 1.421 | 1.392 | 1.384 | 3.00 |
| 35) | TERTIARY BUTYL ALCOHOL | | | | | | | | | | |
| | 2.800 | 2.456 | 3.153 | | 2.386 | 2.441 | 2.573 | 2.734 | 2.980 | 2.690 | 10.29 |
| 36) | METHYL TERTIARY BUTYL ETHER | | | | | | | | | | |
| | 3.528 | 3.479 | 3.735 | | 3.283 | 3.303 | 3.463 | 3.025 | 3.743 | 3.445 | 6.97 |
| 37) | TETRAHYDROFURAN | | | | | | | | | | |
| | 0.654 | 0.569 | 0.703 | | 0.627 | 0.605 | 0.649 | | 0.674 | 0.640 | 6.94 |
| 38) | HEXANE | | | | | | | | | | |
| | 2.904 | 2.704 | 2.773 | | 2.634 | 2.550 | 2.634 | 2.538 | 2.740 | 2.685 | 4.55 |
| 39) | VINYL ACETATE | | | | | | | | | | |
| | 0.250 | 0.366 | 0.376 | | 0.297 | 0.314 | 0.344 | | 0.375 | 0.332 | 14.23 |
| 40) | 1,1-DICHLOROETHANE | | | | | | | | | | |
| | 2.791 | 2.661 | 2.731 | 2.633 | 2.658 | 2.540 | 2.555 | 2.497 | 2.685 | 2.639 | 3.58 |
| 41) | METHYL ETHYL KETONE | | | | | | | | | | |
| | 0.654 | 0.686 | 0.716 | | 0.639 | 0.644 | 0.671 | | 0.698 | 0.673 | 4.31 |
| 42) | CIS-1,2-DICHLOROETHENE | | | | | | | | | | |
| | 1.525 | 1.498 | 1.438 | | 1.422 | 1.381 | 1.418 | 1.513 | 1.427 | 1.453 | 3.59 |
| 43) | DIISOPROPYL ETHER | | | | | | | | | | |
| | 0.781 | 0.716 | 0.819 | | 0.761 | 0.742 | 0.774 | | 0.808 | 0.772 | 4.64 |
| 44) | ETHYL ACETATE | | | | | | | | | | |
| | 0.551 | 0.511 | 0.560 | | 0.506 | 0.503 | 0.528 | | 0.553 | 0.530 | 4.55 |
| 45) | METHYL ACRYLATE | | | | | | | | | | |
| | 3.661 | 3.389 | 3.601 | 2.522 | 3.205 | 3.202 | 3.381 | 3.376 | 3.540 | 3.320 | 10.21 |
| 46) | CHLOROFORM | | | | | | | | | | |
| | 3.136 | 3.071 | 3.022 | 2.830 | 2.955 | 2.872 | 2.964 | 3.000 | 2.984 | 2.982 | 3.14 |
| 47) | 2,4-DIMETHYLPENTANE | | | | | | | | | | |
| | 3.177 | 2.936 | 3.321 | 2.840 | 3.027 | 2.972 | 3.090 | 2.843 | 3.101 | 3.034 | 5.18 |
| 48) | 1,1,1-TRICHLOROETHANE | | | | | | | | | | |
| | 2.950 | 2.871 | 3.129 | | 2.796 | 2.778 | 2.899 | 2.980 | 3.034 | 2.930 | 4.05 |
| 49) | CARBON TETRACHLORIDE | | | | | | | | | | |
| | 3.118 | 3.178 | 3.488 | 2.764 | 3.116 | 3.100 | 3.212 | 2.912 | 3.384 | 3.141 | 6.97 |
| 50) | 1,2-DICHLOROETHANE | | | | | | | | | | |
| | 2.370 | 2.316 | 2.358 | | 2.216 | 2.154 | 2.204 | 2.258 | 2.276 | 2.269 | 3.36 |
| 51) | BENZENE | | | | | | | | | | |
| | 4.357 | 4.672 | 4.576 | 4.974 | 4.218 | 4.103 | 4.247 | 4.516 | 4.462 | 4.458 | 5.97 |
| 52) | I 1,4-DIFLUOROBENZENE | ---------- | ISTD | ---------- | | | | | | | |
| 53) | CYCLOHEXANE | | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.383 | 0.356 | 0.372 | 0.357 | 0.359 | 0.368 | 0.349 | 0.374 | 0.365 | 3.08 |
| 54) 2,3-DIMETHYLPENTANE | | | | | | | | | | |
| | 0.206 | 0.206 | 0.198 | 0.194 | 0.192 | 0.194 | | 0.200 | 0.199 | 2.90 |
| 55) TRICHLOROETHENE | | | | | | | | | | |
| | 0.431 | 0.403 | 0.395 | 0.338 | 0.399 | 0.386 | 0.391 | 0.389 | 0.400 | 0.393 | 6.22 |
| 56) 1,2-DICHLOROPROPANE | | | | | | | | | | |
| | 0.390 | 0.353 | 0.359 | 0.361 | 0.353 | 0.357 | 0.346 | 0.364 | 0.361 | 3.68 |
| 57) DIBROMOMETHANE | | | | | | | | | | |
| | 0.362 | 0.380 | 0.363 | 0.357 | 0.353 | 0.358 | 0.419 | 0.368 | 0.370 | 5.82 |
| 58) ETHYL ACRYLATE | | | | | | | | | | |
| | 0.773 | 0.701 | 0.839 | 0.751 | 0.764 | 0.803 | 0.634 | 0.855 | 0.765 | 9.47 |
| 59) BROMODICHLOROMETHANE | | | | | | | | | | |
| | 0.709 | 0.646 | 0.660 | 0.624 | 0.656 | 0.646 | 0.650 | 0.695 | 0.666 | 0.661 | 3.93 |
| 60) 2,2,4-TRIMETHYLPENTANE | | | | | | | | | | |
| | 1.778 | 1.654 | 1.684 | 1.494 | 1.682 | 1.645 | 1.671 | 1.576 | 1.705 | 1.654 | 4.86 |
| 61) 1,4-DIOXANE | | | | | | | | | | |
| | 0.172 | 0.140 | 0.186 | 0.165 | 0.171 | 0.181 | | 0.193 | 0.173 | 10.04 |
| 62) HEPTANE | | | | | | | | | | |
| | 0.692 | 0.634 | 0.666 | 0.702 | 0.668 | 0.647 | 0.660 | 0.655 | 0.675 | 0.667 | 3.17 |
| 63) METHYL METHACRYLATE | | | | | | | | | | |
| | 0.319 | 0.293 | 0.342 | 0.311 | 0.317 | 0.329 | 0.297 | 0.349 | 0.319 | 6.23 |
| 64) METHYL ISOBUTYL KETONE | | | | | | | | | | |
| | 0.240 | 0.206 | 0.312 | 0.282 | 0.287 | 0.305 | 0.211 | 0.319 | 0.270 | 16.72 |
| 65) CIS-1,3-DICHLOROPROPENE | | | | | | | | | | |
| | 0.500 | 0.435 | 0.513 | 0.461 | 0.473 | 0.493 | 0.423 | 0.522 | 0.478 | 7.51 |
| 66) TOLUENE | | | | | | | | | | |
| | 1.113 | 1.089 | 1.064 | 1.388 | 1.012 | 1.014 | 1.038 | 1.153 | 1.083 | 1.106 | 10.42 |
| 67) 1,3-DICHLOROPROPANE | | | | | | | | | | |
| | 0.554 | 0.517 | 0.543 | 0.531 | 0.517 | 0.534 | 0.520 | 0.551 | 0.533 | 2.78 |
| 68) TRANS-1,3-DICHLOROPROPENE | | | | | | | | | | |
| | 0.413 | 0.353 | 0.474 | 0.400 | 0.419 | 0.453 | 0.369 | 0.487 | 0.421 | 11.38 |
| 69) 1,1,2-TRICHLOROETHANE | | | | | | | | | | |
| | 0.358 | 0.315 | 0.315 | 0.315 | 0.307 | 0.312 | 0.286 | 0.320 | 0.316 | 6.35 |
| 70) 2-HEXANONE | | | | | | | | | | |
| | 0.229 | 0.186 | 0.394 | 0.287 | 0.325 | 0.373 | | 0.410 | 0.315 | 27.07 |
| 71) ETHYL METHACRYLATE | | | | | | | | | | |
| | 0.422 | 0.365 | 0.547 | 0.481 | 0.498 | 0.529 | 0.365 | 0.562 | 0.471 | 16.70 |
| 72) TETRACHLOROETHENE | | | | | | | | | | |
| | 0.428 | 0.387 | 0.405 | 0.245 | 0.393 | 0.389 | 0.396 | 0.384 | 0.413 | 0.382 | 13.91 |
| 73) DIBROMOCHLOROMETHANE | | | | | | | | | | |
| | 0.725 | 0.661 | 0.725 | 0.547 | 0.688 | 0.683 | 0.702 | 0.673 | 0.736 | 0.682 | 8.31 |
| 74) 1,2-DIBROMOETHANE | | | | | | | | | | |
| | 0.607 | 0.561 | 0.593 | 0.566 | 0.561 | 0.580 | 0.555 | 0.604 | 0.579 | 3.57 |
| 75) OCTANE | | | | | | | | | | |
| | 0.889 | 0.757 | 0.930 | 0.926 | 0.884 | 0.884 | 0.919 | 0.808 | 0.939 | 0.882 | 6.94 |
| 76) I CHLOROBENZENE-D5 | ---------- | ---------- | ISTD | ---------- | ---------- | | | | | | |
| 77) 1,1,1,2-TETRACHLOROETHANE | | | | | | | | | | |
| | 0.505 | 0.564 | 0.548 | 0.535 | 0.537 | 0.543 | 0.501 | 0.560 | 0.537 | 4.30 |
| 78) CHLOROBENZENE | | | | | | | | | | |
| | 0.979 | 1.000 | 0.986 | 0.843 | 0.977 | 0.970 | 0.986 | 0.946 | 1.009 | 0.966 | 5.12 |
| 79) ETHYLBENZENE | | | | | | | | | | |
| | 1.466 | 1.655 | 1.598 | 2.607 | 1.528 | 1.551 | 1.591 | 1.867 | 1.633 | 1.722 | 20.34 |
| 80) M,P-XYLENE | | | | | | | | | | |
| | 1.113 | 1.192 | 1.228 | 1.772 | 1.195 | 1.200 | 1.228 | 1.384 | 1.259 | 1.286 | 15.25 |
| 81) O-XYLENE | | | | | | | | | | |
| | 1.095 | 1.190 | 1.240 | 1.803 | 1.205 | 1.212 | 1.240 | 1.332 | 1.265 | 1.287 | 15.82 |
| 82) STYRENE | | | | | | | | | | |
| | 0.747 | 0.732 | 0.967 | 0.789 | 0.888 | 0.925 | 0.959 | 0.750 | 0.986 | 0.860 | 12.22 |
| 83) NONANE | | | | | | | | | | |

# Initial Calibration Summary

**Job Number:** JD54338 **Sample:** V6W1125-ICC1125
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26454.D
**Project:** EPT, Ithaca, NY

```
          1.108 1.087 1.087 1.126 1.099 1.087 1.098 1.176 1.097   1.107    2.58
 84)  BROMOFORM
          0.664 0.670 0.736       0.693 0.702 0.728 0.660 0.759   0.702    5.22
 85)  1,1,2,2-TETRACHLOROETHANE
          0.972 0.932 0.925 0.767 0.922 0.918 0.925 0.922 0.943   0.914    6.30
 86)  1,2,3-TRICHLOROPROPANE
          0.748 0.671 0.724       0.720 0.711 0.726 0.682 0.739   0.715    3.70
 87)  4-BROMOFLUOROBENZENE
          0.684 0.686 0.710 0.685 0.698 0.708 0.716 0.684 0.714   0.698    1.98
 88)  ISOPROPYLBENZENE
          1.676 1.769 1.849 1.689 1.772 1.799 1.846 1.688 1.880   1.774    4.31
 89)  BROMOBENZENE
          0.845 0.846 0.893 0.734 0.867 0.868 0.894 0.848 0.909   0.856    5.98
 90)  2-CHLOROTOLUENE
          1.063 1.028 1.288 0.968 1.223 1.232 1.276 1.041 1.306   1.158   11.35
 91)  N-PROPYLBENZENE
          1.745 1.692 2.210 1.647 2.092 2.123 2.191 1.632 2.259   1.955   13.69
 92)  4-ETHYLTOLUENE
          1.372 1.250 1.891 1.134 1.764 1.803 1.863 1.236 1.920   1.581   20.56
 93)  1,3,5-TRIMETHYLBENZENE
          1.183 1.097 1.573 1.068 1.456 1.468 1.538 1.039 1.612   1.337   17.65
 94)  ALPHA-METHYLSTYRENE
          0.546 0.529 0.791       0.720 0.733 0.773 0.463 0.806   0.670   20.20
 95)  TERT-BUTYLBENZENE
          1.326 1.218 1.766 1.190 1.642 1.657 1.729 1.180 1.798   1.501   17.69
 96)  1,2,4-TRIMETHYLBENZENE
          1.221 1.118 1.643 1.023 1.538 1.539 1.601 1.074 1.675   1.381   19.32
 97)  BENZYL CHLORIDE
          0.662 0.534 1.156       0.764 0.860 1.027 0.454 1.240   0.837   34.25
 98)  M-DICHLOROBENZENE
          0.951 0.913 1.079 0.694 1.003 1.013 1.058 0.828 1.107   0.961   13.77
 99)  P-DICHLOROBENZENE
          0.940 0.876 1.096 0.737 0.997 1.010 1.058 0.781 1.137   0.959   14.39
100)  O-DICHLOROBENZENE
          0.943 0.886 1.057 0.733 0.976 0.971 1.025 0.763 1.103   0.940   13.41
101)  SEC-BUTYLBENZENE
          1.899 1.766 2.378 1.415 2.244 2.262 2.355 1.644 2.450   2.046   18.24
102)  1,2,3-TRIMETHYLBENZENE
          1.255 1.124 1.596 0.979 1.476 1.499 1.567 1.046 1.635   1.353   18.78
103)  P-ISOPROPYLTOLUENE
          1.632 1.456 2.104 1.114 1.929 1.967 2.048 1.364 2.171   1.754   21.37
104)  N-BUTYLBENZENE
          1.339 1.192 1.986 0.884 1.770 1.804 1.924 1.073 2.056   1.559   28.16
105)  HEXACHLOROETHANE
          0.578 0.566 0.715 0.612 0.611 0.625 0.680 0.605 0.741   0.637    9.59
106)  HEXACHLOROBUTADIENE
          0.626 0.623 0.832       0.650 0.681 0.742 0.502 0.914   0.696   18.67
107)  1,2,4-TRICHLOROBENZENE
          0.561 0.435 1.013       0.691 0.790 0.903       1.070   0.781   29.98
108)  NAPHTHALENE
          1.190 0.816 2.659       1.672 1.979 2.331       2.829   1.925   38.86
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M6W1125.M         Thu Oct 20 09:52:34 2022
```

# Initial Calibration Verification



**Job Number:** JD54338 **Sample:** V6W1125-ICV1125
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26462.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\6W26462.D Vial: 5
Acq On : 20 Oct 2022 9:08 am Operator: thomash
Sample : icv1125-10 Inst : GCMS6W
Misc : MS63121,V6W1125,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1125.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Thu Oct 20 08:34:08 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 94 | 0.00 | 3.34 |
| 2 | T | FREON 115 | | ----------NA---------- | | | | |
| 3 | T | FREON 152A | 0.860 | 0.892 | -3.7 | 104 | 0.00 | 1.69 |
| 4 | T | CHLORODIFLUOROMETHANE | 0.390 | 0.396 | -1.5 | 101 | 0.00 | 1.71 |
| 5 | T | CHLOROTRIFLUOROETHENE | 1.882 | 1.926 | -2.3 | 103 | 0.00 | 1.72 |
| 6 | T | DICHLORODIFLUOROMETHANE | 3.127 | 3.309 | -5.8 | 103 | 0.00 | 1.73 |
| 7 | T | PROPYLENE | 1.281 | 1.312 | -2.4 | 102 | 0.00 | 1.71 |
| 8 | T | 1-CHLORO-1,1-DIFLUOROETHA | 2.864 | 2.939 | -2.6 | 103 | 0.00 | 1.77 |
| 9 | T | FREON 114 | 3.289 | 3.334 | -1.4 | 104 | 0.00 | 1.80 |
| 10 | T | CHLOROMETHANE | 0.452 | 0.457 | -1.1 | 105 | 0.00 | 1.77 |
| 11 | T | VINYL CHLORIDE | 1.370 | 1.380 | -0.7 | 103 | 0.00 | 1.83 |
| 12 | t | 1,3-BUTADIENE | 1.120 | 1.166 | -4.1 | 106 | 0.00 | 1.87 |
| 13 | T | N-BUTANE | 2.525 | 2.357 | 6.7 | 104 | 0.00 | 1.88 |
| 14 | T | BROMOMETHANE | 1.059 | 1.098 | -3.7 | 105 | 0.00 | 1.93 |
| 15 | T | CHLOROETHANE | 0.656 | 0.691 | -5.3 | 105 | 0.00 | 1.98 |
| 16 | T | DICHLOROFLUOROMETHANE | 2.784 | 2.839 | -2.0 | 104 | 0.00 | 2.00 |
| 17 | T | ACETONITRILE | 1.471 | 1.418 | 3.6 | 103 | 0.00 | 2.06 |
| 18 | T | ACROLEIN | 0.608 | 0.618 | -1.6 | 95 | 0.00 | 2.10 |
| 19 | T | FREON 123 | 2.640 | 2.774 | -5.1 | 109 | 0.00 | 2.11 |
| 20 | T | FREON 123A | 1.592 | 1.816 | -14.1 | 116 | 0.00 | 2.13 |
| 21 | T | TRICHLOROFLUOROMETHANE | 3.261 | 3.314 | -1.6 | 106 | 0.00 | 2.19 |
| 22 | T | ISOPROPYL ALCOHOL | 3.290 | 3.087 | 6.2 | 103 | 0.00 | 2.21 |
| 23 | T | ACETONE | 0.740 | 0.737 | 0.4 | 111 | 0.00 | 2.14 |
| 24 | T | PENTANE | 1.755 | 1.688 | 3.8 | 104 | 0.00 | 2.30 |
| 25 | T | IODOMETHANE | 3.143 | 3.058 | 2.7 | 99 | 0.00 | 2.35 |
| 26 | T | 1,1-DICHLOROETHYLENE | 1.239 | 1.162 | 6.2 | 92 | 0.00 | 2.38 |
| 27 | T | CARBON DISULFIDE | 3.927 | 3.333 | 15.1 | 83 | 0.00 | 2.52 |
| 28 | T | ETHANOL | 0.759 | 0.817 | -7.6 | 123 | 0.00 | 2.01 |
| 29 | T | BROMOETHENE | 1.110 | 1.144 | -3.1 | 105 | 0.00 | 2.07 |
| 30 | T | ACRYLONITRILE | 1.109 | 1.095 | 1.3 | 103 | 0.00 | 2.27 |
| 31 | T | METHYLENE CHLORIDE | 1.243 | 1.030 | 17.1 | 85 | 0.00 | 2.42 |
| 32 | T | 3-CHLOROPROPENE | 0.605 | 0.559 | 7.6 | 88 | 0.00 | 2.46 |
| 33 | T | FREON 113 | 2.199 | 1.934 | 12.1 | 84 | 0.00 | 2.52 |
| 34 | T | TRANS-1,2-DICHLOROETHENE | 1.384 | 1.318 | 4.8 | 93 | 0.00 | 2.77 |
| 35 | T | TERTIARY BUTYL ALCOHOL | 2.690 | 2.435 | 9.5 | 94 | 0.00 | 2.40 |
| 36 | t | METHYL TERTIARY BUTYL ETH | 3.445 | 3.498 | -1.5 | 100 | 0.00 | 2.89 |
| 37 | T | TETRAHYDROFURAN | 0.640 | 0.635 | 0.8 | 99 | 0.00 | 3.65 |
| 38 | T | HEXANE | 2.685 | 2.704 | -0.7 | 100 | 0.00 | 3.39 |
| 39 | T | VINYL ACETATE | 0.332 | 0.332 | 0.0 | 100 | 0.00 | 2.93 |
| 40 | T | 1,1-DICHLOROETHANE | 2.639 | 2.663 | -0.9 | 99 | 0.00 | 2.85 |
| 41 | T | METHYL ETHYL KETONE | 0.673 | 0.670 | 0.4 | 98 | 0.00 | 3.04 |
| 42 | T | CIS-1,2-DICHLOROETHENE | 1.453 | 1.379 | 5.1 | 94 | 0.00 | 3.25 |

# Initial Calibration Verification

**Job Number:** JD54338 **Sample:** V6W1125-ICV1125
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26462.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 43 | T | DIISOPROPYL ETHER | 0.772 | 0.762 | 1.3 | 97 | 0.00 | 3.40 |
| 44 | T | ETHYL ACETATE | 0.530 | 0.536 | -1.1 | 101 | 0.00 | 3.40 |
| 45 | T | METHYL ACRYLATE | 3.320 | 3.384 | -1.9 | 100 | 0.00 | 3.39 |
| 46 | T | CHLOROFORM | 2.982 | 2.822 | 5.4 | 93 | 0.00 | 3.42 |
| 47 | T | 2,4-DIMETHYLPENTANE | 3.034 | 3.133 | -3.3 | 100 | 0.00 | 3.95 |
| 48 | T | 1,1,1-TRICHLOROETHANE | 2.930 | 2.812 | 4.0 | 96 | 0.00 | 4.04 |
| 49 | T | CARBON TETRACHLORIDE | 3.141 | 3.003 | 4.4 | 91 | 0.00 | 4.50 |
| 50 | T | 1,2-DICHLOROETHANE | 2.269 | 2.259 | 0.4 | 99 | 0.00 | 3.87 |
| 51 | t | BENZENE | 4.458 | 4.101 | 8.0 | 94 | 0.00 | 4.38 |
| 52 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 94 | 0.00 | 4.73 |
| 53 | T | CYCLOHEXANE | 0.365 | 0.359 | 1.6 | 94 | 0.00 | 4.60 |
| 54 | T | 2,3-DIMETHYLPENTANE | 0.199 | 0.194 | 2.5 | 95 | -0.01 | 4.87 |
| 55 | T | TRICHLOROETHENE | 0.393 | 0.371 | 5.6 | 90 | 0.00 | 5.34 |
| 56 | T | 1,2-DICHLOROPROPANE | 0.361 | 0.356 | 1.4 | 95 | 0.00 | 5.10 |
| 57 | T | DIBROMOMETHANE | 0.370 | 0.332 | 10.3 | 89 | 0.00 | 5.05 |
| 58 | T | ETHYL ACRYLATE | 0.765 | 0.817 | -6.8 | 101 | 0.00 | 5.23 |
| 59 | T | BROMODICHLOROMETHANE | 0.661 | 0.635 | 3.9 | 93 | 0.00 | 5.29 |
| 60 | T | 2,2,4-TRIMETHYLPENTANE | 1.654 | 1.719 | -3.9 | 99 | 0.00 | 5.44 |
| 61 | T | 1,4-DIOXANE | 0.173 | 0.184 | -6.4 | 101 | 0.00 | 5.37 |
| 62 | T | HEPTANE | 0.667 | 0.686 | -2.8 | 100 | -0.01 | 5.78 |
| 63 | T | METHYL METHACRYLATE | 0.319 | 0.314 | 1.6 | 94 | 0.00 | 5.68 |
| 64 | T | METHYL ISOBUTYL KETONE | 0.270 | 0.307 | -13.7 | 101 | 0.02 | 6.47 |
| 65 | T | CIS-1,3-DICHLOROPROPENE | 0.478 | 0.519 | -8.6 | 104 | 0.00 | 6.34 |
| 66 | T | TOLUENE | 1.106 | 1.062 | 4.0 | 99 | 0.00 | 7.61 |
| 67 | T | 1,3-DICHLOROPROPANE | 0.533 | 0.542 | -1.7 | 99 | 0.00 | 7.68 |
| 68 | T | TRANS-1,3-DICHLOROPROPENE | 0.421 | 0.441 | -4.8 | 99 | 0.00 | 7.06 |
| 69 | T | 1,1,2-TRICHLOROETHANE | 0.316 | 0.316 | 0.0 | 97 | 0.00 | 7.23 |
| 70 | T | 2-HEXANONE | 0.315 | 0.391 | -24.1 | 113 | 0.02 | 8.22 |
| 71 | T | ETHYL METHACRYLATE | 0.471 | 0.518 | -10.0 | 98 | 0.00 | 8.35 |
| 72 | T | TETRACHLOROETHENE | 0.382 | 0.404 | -5.8 | 98 | 0.00 | 9.41 |
| 73 | T | DIBROMOCHLOROMETHANE | 0.682 | 0.699 | -2.5 | 96 | 0.00 | 8.18 |
| 74 | T | 1,2-DIBROMOETHANE | 0.579 | 0.584 | -0.9 | 98 | 0.00 | 8.53 |
| 75 | T | OCTANE | 0.882 | 0.941 | -6.7 | 100 | 0.00 | 9.55 |
| 76 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 10.58 |
| 77 | T | 1,1,1,2-TETRACHLOROETHANE | 0.537 | 0.496 | 7.6 | 96 | 0.00 | 10.68 |
| 78 | T | CHLOROBENZENE | 0.966 | 0.923 | 4.5 | 99 | 0.00 | 10.66 |
| 79 | t | ETHYLBENZENE | 1.722 | 1.446 | 16.0 | 97 | 0.00 | 11.56 |
| 80 | t | M,P-XYLENE | 1.286 | 1.118 | 13.1 | 97 | 0.00 | 12.00 |
| 81 | t | O-XYLENE | 1.287 | 1.139 | 11.5 | 97 | 0.00 | 12.96 |
| 82 | T | STYRENE | 0.860 | 0.815 | 5.2 | 91 | 0.00 | 12.74 |
| 83 | T | NONANE | 1.107 | 1.028 | 7.1 | 98 | 0.00 | 14.08 |
| 84 | T | BROMOFORM | 0.702 | 0.656 | 6.6 | 97 | 0.00 | 11.82 |
| 85 | T | 1,1,2,2-TETRACHLOROETHANE | 0.914 | 0.857 | 6.2 | 97 | 0.00 | 12.98 |
| 86 | T | 1,2,3-TRICHLOROPROPANE | 0.715 | 0.651 | 9.0 | 95 | 0.00 | 13.26 |
| 87 | S | 4-BROMOFLUOROBENZENE | 0.698 | 0.707 | -1.3 | 104 | 0.00 | 14.02 |
| 88 | T | ISOPROPYLBENZENE | 1.774 | 1.636 | 7.8 | 94 | 0.00 | 14.50 |
| 89 | T | BROMOBENZENE | 0.856 | 0.796 | 7.0 | 95 | 0.00 | 14.37 |
| 90 | T | 2-CHLOROTOLUENE | 1.158 | 1.097 | 5.3 | 92 | 0.00 | 15.52 |
| 91 | T | N-PROPYLBENZENE | 1.955 | 1.917 | 1.9 | 94 | 0.00 | 15.86 |
| 92 | T | 4-ETHYLTOLUENE | 1.581 | 1.624 | -2.7 | 93 | 0.00 | 16.20 |
| 93 | T | 1,3,5-TRIMETHYLBENZENE | 1.337 | 1.317 | 1.5 | 93 | 0.00 | 16.35 |
| 94 | T | ALPHA-METHYLSTYRENE | 0.670 | 0.574 | 14.3 | 81 | 0.00 | 16.54 |
| 95 | T | TERT-BUTYLBENZENE | 1.501 | 1.461 | 2.7 | 91 | 0.00 | 16.80 |
| 96 | T | 1,2,4-TRIMETHYLBENZENE | 1.381 | 1.345 | 2.6 | 91 | 0.00 | 16.80 |
| 97 | T | BENZYL CHLORIDE | 0.837 | 0.777 | 7.2 | 94 | 0.00 | 16.89 |
| 98 | T | M-DICHLOROBENZENE | 0.961 | 0.891 | 7.3 | 91 | 0.00 | 16.86 |
| 99 | T | P-DICHLOROBENZENE | 0.959 | 0.899 | 6.3 | 92 | 0.00 | 16.95 |
| 100 | T | O-DICHLOROBENZENE | 0.940 | 0.850 | 9.6 | 91 | 0.00 | 17.23 |

# Initial Calibration Verification

**Job Number:** JD54338 **Sample:** V6W1125-ICV1125
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26462.D
**Project:** EPT, Ithaca, NY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 101 T | SEC-BUTYLBENZENE | 2.046 | 1.980 | 3.2 | 91 | 0.00 | 17.07 |
| 102 T | 1,2,3-TRIMETHYLBENZENE | 1.353 | 1.283 | 5.2 | 89 | 0.00 | 17.18 |
| 103 T | P-ISOPROPYLTOLUENE | 1.754 | 1.646 | 6.2 | 87 | 0.00 | 17.25 |
| 104 T | N-BUTYLBENZENE | 1.559 | 1.552 | 0.4 | 89 | 0.00 | 17.59 |
| 105 T | HEXACHLOROETHANE | 0.637 | 0.494 | 22.4 | 82 | 0.00 | 17.77 |
| 106 T | HEXACHLOROBUTADIENE | 0.696 | 0.507 | 27.2 | 77 | 0.02 | 18.80 |
| 107 T | 1,2,4-TRICHLOROBENZENE | 0.781 | 0.630 | 19.3 | 83 | 0.02 | 18.50 |
| 108 T | NAPHTHALENE | 1.925 | 1.665 | 13.5 | 87 | 0.02 | 18.55 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6W26454.D M6W1125.M Thu Oct 20 09:53:29 2022

# Continuing Calibration Summary



**Job Number:** JD54338 **Sample:** V6W1137-CC1125
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26823.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\6W26823.D Vial: 2
Acq On : 3 Nov 2022 9:36 am Operator: thomash
Sample : cc1125-10 Inst : GCMS6W
Misc : MS63437,V6W1137,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1125.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Thu Oct 20 08:34:08 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 90 | 0.00 | 3.34 |
| 2 | T | FREON 115 | 0.000 | 0.369 | 0.0 | 0# | 0.00 | 1.67 |
| 3 | T | FREON 152A | 0.860 | 0.705 | 18.0 | 78 | 0.00 | 1.69 |
| 4 | T | CHLORODIFLUOROMETHANE | 0.390 | 0.310 | 20.5 | 76 | 0.00 | 1.71 |
| 5 | T | CHLOROTRIFLUOROETHENE | 1.882 | 1.608 | 14.6 | 83 | 0.00 | 1.72 |
| 6 | T | DICHLORODIFLUOROMETHANE | 3.127 | 3.719 | -18.9 | 111 | 0.00 | 1.73 |
| 7 | T | PROPYLENE | 1.281 | 1.001 | 21.9 | 74 | 0.00 | 1.72 |
| 8 | T | 1-CHLORO-1,1-DIFLUOROETHA | 2.864 | 2.732 | 4.6 | 92 | 0.00 | 1.77 |
| 9 | T | FREON 114 | 3.289 | 3.314 | -0.8 | 99 | 0.00 | 1.80 |
| 10 | T | CHLOROMETHANE | 0.452 | 0.441 | 2.4 | 97 | 0.00 | 1.78 |
| 11 | T | VINYL CHLORIDE | 1.370 | 1.416 | -3.4 | 101 | 0.00 | 1.83 |
| 12 | t | 1,3-BUTADIENE | 1.120 | 1.181 | -5.4 | 103 | 0.00 | 1.87 |
| 13 | T | N-BUTANE | 2.525 | 2.379 | 5.8 | 100 | 0.00 | 1.88 |
| 14 | T | BROMOMETHANE | 1.059 | 1.175 | -11.0 | 108 | 0.00 | 1.94 |
| 15 | T | CHLOROETHANE | 0.656 | 0.727 | -10.8 | 105 | 0.00 | 1.98 |
| 16 | T | DICHLOROFLUOROMETHANE | 2.784 | 2.935 | -5.4 | 103 | 0.00 | 2.00 |
| 17 | T | ACETONITRILE | 1.471 | 1.516 | -3.1 | 105 | 0.00 | 2.07 |
| 18 | T | ACROLEIN | 0.608 | 0.713 | -17.3 | 105 | 0.00 | 2.10 |
| 19 | T | FREON 123 | 2.640 | 2.858 | -8.3 | 107 | 0.00 | 2.12 |
| 20 | T | FREON 123A | 1.592 | 1.668 | -4.8 | 102 | 0.00 | 2.13 |
| 21 | T | TRICHLOROFLUOROMETHANE | 3.261 | 3.239 | 0.7 | 99 | 0.00 | 2.19 |
| 22 | T | ISOPROPYL ALCOHOL | 3.290 | 3.067 | 6.8 | 98 | 0.00 | 2.21 |
| 23 | T | ACETONE | 0.740 | 0.772 | -4.3 | 111 | 0.00 | 2.14 |
| 24 | T | PENTANE | 1.755 | 1.725 | 1.7 | 101 | 0.00 | 2.30 |
| 25 | T | IODOMETHANE | 3.143 | 3.338 | -6.2 | 104 | 0.00 | 2.36 |
| 26 | T | 1,1-DICHLOROETHYLENE | 1.239 | 1.232 | 0.6 | 93 | 0.00 | 2.39 |
| 27 | T | CARBON DISULFIDE | 3.927 | 3.887 | 1.0 | 93 | 0.00 | 2.52 |
| 28 | T | ETHANOL | 0.759 | 0.746 | 1.7 | 108 | 0.00 | 2.01 |
| 29 | T | BROMOETHENE | 1.110 | 1.207 | -8.7 | 106 | 0.00 | 2.07 |
| 30 | T | ACRYLONITRILE | 1.109 | 1.176 | -6.0 | 106 | 0.00 | 2.27 |
| 31 | T | METHYLENE CHLORIDE | 1.243 | 1.166 | 6.2 | 92 | 0.00 | 2.42 |
| 32 | T | 3-CHLOROPROPENE | 0.605 | 0.611 | -1.0 | 92 | 0.00 | 2.46 |
| 33 | T | FREON 113 | 2.199 | 2.084 | 5.2 | 86 | 0.00 | 2.52 |
| 34 | T | TRANS-1,2-DICHLOROETHENE | 1.384 | 1.368 | 1.2 | 92 | 0.00 | 2.77 |
| 35 | T | TERTIARY BUTYL ALCOHOL | 2.690 | 2.329 | 13.4 | 86 | 0.00 | 2.40 |
| 36 | t | METHYL TERTIARY BUTYL ETH | 3.445 | 2.742 | 20.4 | 75 | 0.00 | 2.89 |
| 37 | T | TETRAHYDROFURAN | 0.640 | 0.673 | -5.2 | 100 | 0.00 | 3.66 |
| 38 | T | HEXANE | 2.685 | 2.591 | 3.5 | 92 | 0.00 | 3.39 |
| 39 | T | VINYL ACETATE | 0.332 | 0.336 | -1.2 | 97 | 0.00 | 2.93 |
| 40 | T | 1,1-DICHLOROETHANE | 2.639 | 2.549 | 3.4 | 91 | 0.00 | 2.86 |
| 41 | T | METHYL ETHYL KETONE | 0.673 | 0.691 | -2.7 | 97 | 0.00 | 3.04 |
| 42 | T | CIS-1,2-DICHLOROETHENE | 1.453 | 1.411 | 2.9 | 92 | 0.00 | 3.26 |

# Continuing Calibration Summary

**Job Number:** JD54338 **Sample:** V6W1137-CC1125
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26823.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 43 | T | DIISOPROPYL ETHER | 0.772 | 0.700 | 9.3 | 85 | 0.00 | 3.40 |
| 44 | T | ETHYL ACETATE | 0.530 | 0.546 | -3.0 | 98 | 0.00 | 3.41 |
| 45 | T | METHYL ACRYLATE | 3.320 | 3.394 | -2.2 | 96 | 0.00 | 3.39 |
| 46 | T | CHLOROFORM | 2.982 | 2.798 | 6.2 | 88 | 0.00 | 3.42 |
| 47 | T | 2,4-DIMETHYLPENTANE | 3.034 | 3.018 | 0.5 | 92 | 0.00 | 3.96 |
| 48 | T | 1,1,1-TRICHLOROETHANE | 2.930 | 2.540 | 13.3 | 83 | 0.00 | 4.05 |
| 49 | T | CARBON TETRACHLORIDE | 3.141 | 2.791 | 11.1 | 81 | 0.00 | 4.50 |
| 50 | T | 1,2-DICHLOROETHANE | 2.269 | 2.060 | 9.2 | 86 | 0.00 | 3.87 |
| 51 | t | BENZENE | 4.458 | 4.169 | 6.5 | 92 | 0.00 | 4.38 |
| 52 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 91 | 0.00 | 4.73 |
| 53 | T | CYCLOHEXANE | 0.365 | 0.357 | 2.2 | 90 | 0.00 | 4.60 |
| 54 | T | 2,3-DIMETHYLPENTANE | 0.199 | 0.195 | 2.0 | 92 | 0.00 | 4.87 |
| 55 | T | TRICHLOROETHENE | 0.393 | 0.349 | 11.2 | 82 | 0.00 | 5.35 |
| 56 | T | 1,2-DICHLOROPROPANE | 0.361 | 0.357 | 1.1 | 92 | 0.00 | 5.10 |
| 57 | T | DIBROMOMETHANE | 0.370 | 0.326 | 11.9 | 84 | 0.00 | 5.06 |
| 58 | T | ETHYL ACRYLATE | 0.765 | 0.835 | -9.2 | 99 | 0.01 | 5.24 |
| 59 | T | BROMODICHLOROMETHANE | 0.661 | 0.586 | 11.3 | 82 | 0.00 | 5.30 |
| 60 | T | 2,2,4-TRIMETHYLPENTANE | 1.654 | 1.434 | 13.3 | 79 | 0.00 | 5.44 |
| 61 | T | 1,4-DIOXANE | 0.173 | 0.189 | -9.2 | 100 | 0.02 | 5.38 |
| 62 | T | HEPTANE | 0.667 | 0.554 | 16.9 | 78 | 0.00 | 5.78 |
| 63 | T | METHYL METHACRYLATE | 0.319 | 0.303 | 5.0 | 87 | 0.01 | 5.69 |
| 64 | T | METHYL ISOBUTYL KETONE | 0.270 | 0.288 | -6.7 | 91 | 0.03 | 6.48 |
| 65 | T | CIS-1,3-DICHLOROPROPENE | 0.478 | 0.415 | 13.2 | 80 | 0.00 | 6.35 |
| 66 | T | TOLUENE | 1.106 | 0.921 | 16.7 | 83 | 0.00 | 7.62 |
| 67 | T | 1,3-DICHLOROPROPANE | 0.533 | 0.478 | 10.3 | 84 | 0.00 | 7.68 |
| 68 | T | TRANS-1,3-DICHLOROPROPENE | 0.421 | 0.369 | 12.4 | 80 | 0.00 | 7.07 |
| 69 | T | 1,1,2-TRICHLOROETHANE | 0.316 | 0.283 | 10.4 | 84 | 0.00 | 7.24 |
| 70 | T | 2-HEXANONE | 0.315 | 0.386 | -22.5 | 108 | 0.02 | 8.23 |
| 71 | T | ETHYL METHACRYLATE | 0.471 | 0.497 | -5.5 | 91 | 0.02 | 8.36 |
| 72 | T | TETRACHLOROETHENE | 0.382 | 0.352 | 7.9 | 82 | 0.00 | 9.41 |
| 73 | T | DIBROMOCHLOROMETHANE | 0.682 | 0.594 | 12.9 | 79 | 0.00 | 8.19 |
| 74 | T | 1,2-DIBROMOETHANE | 0.579 | 0.524 | 9.5 | 85 | 0.00 | 8.54 |
| 75 | T | OCTANE | 0.882 | 0.757 | 14.2 | 78 | 0.00 | 9.56 |
| 76 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 86 | 0.00 | 10.59 |
| 77 | T | 1,1,1,2-TETRACHLOROETHANE | 0.537 | 0.491 | 8.6 | 79 | 0.00 | 10.68 |
| 78 | T | CHLOROBENZENE | 0.966 | 0.933 | 3.4 | 83 | 0.00 | 10.67 |
| 79 | t | ETHYLBENZENE | 1.722 | 1.499 | 13.0 | 83 | 0.00 | 11.57 |
| 80 | t | M,P-XYLENE | 1.286 | 1.166 | 9.3 | 84 | 0.00 | 12.01 |
| 81 | t | O-XYLENE | 1.287 | 1.185 | 7.9 | 84 | 0.00 | 12.96 |
| 82 | T | STYRENE | 0.860 | 0.902 | -4.9 | 84 | 0.00 | 12.75 |
| 83 | T | NONANE | 1.107 | 0.987 | 10.8 | 78 | 0.00 | 14.09 |
| 84 | T | BROMOFORM | 0.702 | 0.661 | 5.8 | 81 | 0.00 | 11.83 |
| 85 | T | 1,1,2,2-TETRACHLOROETHANE | 0.914 | 0.919 | -0.5 | 86 | 0.00 | 12.99 |
| 86 | T | 1,2,3-TRICHLOROPROPANE | 0.715 | 0.696 | 2.7 | 84 | 0.00 | 13.27 |
| 87 | S | 4-BROMOFLUOROBENZENE | 0.698 | 0.715 | -2.4 | 87 | 0.00 | 14.02 |
| 88 | T | ISOPROPYLBENZENE | 1.774 | 1.715 | 3.3 | 82 | 0.00 | 14.50 |
| 89 | T | BROMOBENZENE | 0.856 | 0.847 | 1.1 | 84 | 0.00 | 14.38 |
| 90 | T | 2-CHLOROTOLUENE | 1.158 | 1.195 | -3.2 | 83 | 0.00 | 15.52 |
| 91 | T | N-PROPYLBENZENE | 1.955 | 2.077 | -6.2 | 84 | 0.00 | 15.86 |
| 92 | T | 4-ETHYLTOLUENE | 1.581 | 1.741 | -10.1 | 83 | 0.00 | 16.20 |
| 93 | T | 1,3,5-TRIMETHYLBENZENE | 1.337 | 1.433 | -7.2 | 84 | 0.00 | 16.35 |
| 94 | T | ALPHA-METHYLSTYRENE | 0.670 | 0.783 | -16.9 | 92 | 0.00 | 16.55 |
| 95 | T | TERT-BUTYLBENZENE | 1.501 | 1.618 | -7.8 | 84 | 0.00 | 16.80 |
| 96 | T | 1,2,4-TRIMETHYLBENZENE | 1.381 | 1.511 | -9.4 | 84 | 0.00 | 16.81 |
| 97 | T | BENZYL CHLORIDE | 0.837 | 0.940 | -12.3 | 94 | 0.00 | 16.89 |
| 98 | T | M-DICHLOROBENZENE | 0.961 | 1.015 | -5.6 | 86 | 0.00 | 16.86 |
| 99 | T | P-DICHLOROBENZENE | 0.959 | 1.032 | -7.6 | 88 | 0.00 | 16.95 |
| 100 | T | O-DICHLOROBENZENE | 0.940 | 0.994 | -5.7 | 88 | 0.00 | 17.23 |

# Continuing Calibration Summary

**Job Number:** JD54338 **Sample:** V6W1137-CC1125
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26823.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 101 | T | SEC-BUTYLBENZENE | 2.046 | 2.225 | -8.7 | 85 | 0.00 | 17.07 |
| 102 | T | 1,2,3-TRIMETHYLBENZENE | 1.353 | 1.472 | -8.8 | 84 | 0.00 | 17.18 |
| 103 | T | P-ISOPROPYLTOLUENE | 1.754 | 1.946 | -10.9 | 85 | 0.00 | 17.25 |
| 104 | T | N-BUTYLBENZENE | 1.559 | 1.848 | -18.5 | 88 | 0.00 | 17.59 |
| 105 | T | HEXACHLOROETHANE | 0.637 | 0.639 | -0.3 | 88 | 0.00 | 17.77 |
| 106 | T | HEXACHLOROBUTADIENE | 0.696 | 0.735 | -5.6 | 93 | 0.01 | 18.79 |
| 107 | T | 1,2,4-TRICHLOROBENZENE | 0.781 | 0.914 | -17.0 | 99 | 0.00 | 18.49 |
| 108 | T | NAPHTHALENE | 1.925 | 2.441 | -26.8 | 106 | 0.00 | 18.54 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6W26454.D M6W1125.M Fri Nov 04 15:14:18 2022

# Continuing Calibration Summary



**Job Number:** JD54338 **Sample:** V6W1138-CC1125
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26863.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\6W26863.D Vial: 2
Acq On : 4 Nov 2022 9:36 am Operator: thomash
Sample : cc1125-10 Inst : GCMS6W
Misc : MS63483,V6W1138,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1125.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Thu Oct 20 08:34:08 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 90 | 0.00 | 3.34 |
| 2 | T | FREON 115 | 0.000 | 0.258 | 0.0 | 0# | 0.00 | 1.67 |
| 3 | T | FREON 152A | 0.860 | 0.754 | 12.3 | 84 | 0.00 | 1.69 |
| 4 | T | CHLORODIFLUOROMETHANE | 0.390 | 0.342 | 12.3 | 83 | 0.00 | 1.71 |
| 5 | T | CHLOROTRIFLUOROETHENE | 1.882 | 1.712 | 9.0 | 88 | 0.00 | 1.72 |
| 6 | T | DICHLORODIFLUOROMETHANE | 3.127 | 3.269 | -4.5 | 98 | 0.07 | 1.80 |
| 7 | T | PROPYLENE | 1.281 | 1.075 | 16.1 | 80 | 0.00 | 1.72 |
| 8 | T | 1-CHLORO-1,1-DIFLUOROETHA | 2.864 | 2.959 | -3.3 | 99 | 0.00 | 1.77 |
| 9 | T | FREON 114 | 3.289 | 3.555 | -8.1 | 106 | 0.00 | 1.80 |
| 10 | T | CHLOROMETHANE | 0.452 | 0.475 | -5.1 | 104 | 0.00 | 1.77 |
| 11 | T | VINYL CHLORIDE | 1.370 | 1.529 | -11.6 | 109 | 0.00 | 1.83 |
| 12 | t | 1,3-BUTADIENE | 1.120 | 1.261 | -12.6 | 110 | 0.00 | 1.87 |
| 13 | T | N-BUTANE | 2.525 | 2.542 | -0.7 | 107 | 0.00 | 1.88 |
| 14 | T | BROMOMETHANE | 1.059 | 1.240 | -17.1 | 114 | 0.00 | 1.94 |
| 15 | T | CHLOROETHANE | 0.656 | 0.778 | -18.6 | 113 | 0.00 | 1.98 |
| 16 | T | DICHLOROFLUOROMETHANE | 2.784 | 3.143 | -12.9 | 110 | 0.00 | 2.00 |
| 17 | T | ACETONITRILE | 1.471 | 1.624 | -10.4 | 112 | 0.00 | 2.07 |
| 18 | T | ACROLEIN | 0.608 | 0.745 | -22.5 | 109 | 0.00 | 2.10 |
| 19 | T | FREON 123 | 2.640 | 3.045 | -15.3 | 114 | 0.00 | 2.12 |
| 20 | T | FREON 123A | 1.592 | 1.790 | -12.4 | 109 | 0.00 | 2.13 |
| 21 | T | TRICHLOROFLUOROMETHANE | 3.261 | 3.451 | -5.8 | 105 | 0.00 | 2.19 |
| 22 | T | ISOPROPYL ALCOHOL | 3.290 | 3.223 | 2.0 | 103 | 0.00 | 2.21 |
| 23 | T | ACETONE | 0.740 | 0.816 | -10.3 | 117 | 0.00 | 2.14 |
| 24 | T | PENTANE | 1.755 | 1.834 | -4.5 | 108 | 0.00 | 2.30 |
| 25 | T | IODOMETHANE | 3.143 | 3.557 | -13.2 | 111 | 0.00 | 2.36 |
| 26 | T | 1,1-DICHLOROETHYLENE | 1.239 | 1.334 | -7.7 | 101 | 0.00 | 2.39 |
| 27 | T | CARBON DISULFIDE | 3.927 | 4.151 | -5.7 | 99 | 0.00 | 2.52 |
| 28 | T | ETHANOL | 0.759 | 0.788 | -3.8 | 114 | 0.00 | 2.01 |
| 29 | T | BROMOETHENE | 1.110 | 1.286 | -15.9 | 113 | 0.00 | 2.07 |
| 30 | T | ACRYLONITRILE | 1.109 | 1.244 | -12.2 | 112 | 0.00 | 2.27 |
| 31 | T | METHYLENE CHLORIDE | 1.243 | 1.238 | 0.4 | 98 | 0.00 | 2.42 |
| 32 | T | 3-CHLOROPROPENE | 0.605 | 0.653 | -7.9 | 98 | 0.00 | 2.46 |
| 33 | T | FREON 113 | 2.199 | 2.225 | -1.2 | 92 | 0.00 | 2.52 |
| 34 | T | TRANS-1,2-DICHLOROETHENE | 1.384 | 1.446 | -4.5 | 97 | 0.00 | 2.77 |
| 35 | T | TERTIARY BUTYL ALCOHOL | 2.690 | 2.227 | 17.2 | 82 | 0.00 | 2.40 |
| 36 | t | METHYL TERTIARY BUTYL ETH | 3.445 | 2.550 | 26.0 | 70 | 0.00 | 2.89 |
| 37 | T | TETRAHYDROFURAN | 0.640 | 0.712 | -11.2 | 106 | 0.00 | 3.66 |
| 38 | T | HEXANE | 2.685 | 2.766 | -3.0 | 98 | 0.00 | 3.39 |
| 39 | T | VINYL ACETATE | 0.332 | 0.357 | -7.5 | 103 | 0.00 | 2.93 |
| 40 | T | 1,1-DICHLOROETHANE | 2.639 | 2.720 | -3.1 | 97 | 0.00 | 2.85 |
| 41 | T | METHYL ETHYL KETONE | 0.673 | 0.735 | -9.2 | 103 | 0.00 | 3.04 |
| 42 | T | CIS-1,2-DICHLOROETHENE | 1.453 | 1.489 | -2.5 | 97 | 0.00 | 3.26 |

# Continuing Calibration Summary

**Job Number:** JD54338 **Sample:** V6W1138-CC1125
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26863.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 43 | T | DIISOPROPYL ETHER | 0.772 | 0.702 | 9.1 | 85 | 0.00 | 3.40 |
| 44 | T | ETHYL ACETATE | 0.530 | 0.591 | -11.5 | 106 | 0.00 | 3.41 |
| 45 | T | METHYL ACRYLATE | 3.320 | 3.629 | -9.3 | 102 | 0.00 | 3.39 |
| 46 | T | CHLOROFORM | 2.982 | 2.994 | -0.4 | 94 | 0.00 | 3.42 |
| 47 | T | 2,4-DIMETHYLPENTANE | 3.034 | 3.245 | -7.0 | 99 | 0.00 | 3.96 |
| 48 | T | 1,1,1-TRICHLOROETHANE | 2.930 | 2.627 | 10.3 | 85 | 0.00 | 4.05 |
| 49 | T | CARBON TETRACHLORIDE | 3.141 | 2.965 | 5.6 | 86 | 0.00 | 4.50 |
| 50 | T | 1,2-DICHLOROETHANE | 2.269 | 2.200 | 3.0 | 92 | 0.00 | 3.87 |
| 51 | t | BENZENE | 4.458 | 4.423 | 0.8 | 97 | 0.00 | 4.38 |
| 52 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 92 | 0.00 | 4.74 |
| 53 | T | CYCLOHEXANE | 0.365 | 0.379 | -3.8 | 97 | 0.00 | 4.60 |
| 54 | T | 2,3-DIMETHYLPENTANE | 0.199 | 0.205 | -3.0 | 98 | 0.00 | 4.87 |
| 55 | T | TRICHLOROETHENE | 0.393 | 0.361 | 8.1 | 86 | 0.00 | 5.35 |
| 56 | T | 1,2-DICHLOROPROPANE | 0.361 | 0.370 | -2.5 | 96 | 0.00 | 5.10 |
| 57 | T | DIBROMOMETHANE | 0.370 | 0.343 | 7.3 | 89 | 0.00 | 5.06 |
| 58 | T | ETHYL ACRYLATE | 0.765 | 0.765 | 0.0 | 92 | 0.01 | 5.24 |
| 59 | T | BROMODICHLOROMETHANE | 0.661 | 0.592 | 10.4 | 84 | 0.00 | 5.30 |
| 60 | T | 2,2,4-TRIMETHYLPENTANE | 1.654 | 1.514 | 8.5 | 85 | 0.00 | 5.44 |
| 61 | T | 1,4-DIOXANE | 0.173 | 0.197 | -13.9 | 106 | 0.01 | 5.38 |
| 62 | T | HEPTANE | 0.667 | 0.582 | 12.7 | 83 | 0.00 | 5.78 |
| 63 | T | METHYL METHACRYLATE | 0.319 | 0.314 | 1.6 | 91 | 0.01 | 5.69 |
| 64 | T | METHYL ISOBUTYL KETONE | 0.270 | 0.299 | -10.7 | 96 | 0.02 | 6.47 |
| 65 | T | CIS-1,3-DICHLOROPROPENE | 0.478 | 0.424 | 11.3 | 82 | 0.00 | 6.35 |
| 66 | T | TOLUENE | 1.106 | 0.971 | 12.2 | 88 | 0.00 | 7.61 |
| 67 | T | 1,3-DICHLOROPROPANE | 0.533 | 0.506 | 5.1 | 90 | 0.00 | 7.68 |
| 68 | T | TRANS-1,3-DICHLOROPROPENE | 0.421 | 0.376 | 10.7 | 82 | 0.00 | 7.07 |
| 69 | T | 1,1,2-TRICHLOROETHANE | 0.316 | 0.298 | 5.7 | 89 | 0.00 | 7.24 |
| 70 | T | 2-HEXANONE | 0.315 | 0.400 | -27.0 | 113 | 0.02 | 8.22 |
| 71 | T | ETHYL METHACRYLATE | 0.471 | 0.522 | -10.8 | 96 | 0.01 | 8.36 |
| 72 | T | TETRACHLOROETHENE | 0.382 | 0.371 | 2.9 | 88 | 0.00 | 9.42 |
| 73 | T | DIBROMOCHLOROMETHANE | 0.682 | 0.625 | 8.4 | 84 | 0.00 | 8.19 |
| 74 | T | 1,2-DIBROMOETHANE | 0.579 | 0.543 | 6.2 | 89 | 0.00 | 8.54 |
| 75 | T | OCTANE | 0.882 | 0.801 | 9.2 | 83 | 0.00 | 9.56 |
| 76 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 87 | 0.00 | 10.59 |
| 77 | T | 1,1,1,2-TETRACHLOROETHANE | 0.537 | 0.516 | 3.9 | 84 | 0.00 | 10.68 |
| 78 | T | CHLOROBENZENE | 0.966 | 0.981 | -1.6 | 88 | 0.00 | 10.67 |
| 79 | t | ETHYLBENZENE | 1.722 | 1.570 | 8.8 | 88 | 0.00 | 11.57 |
| 80 | t | M,P-XYLENE | 1.286 | 1.218 | 5.3 | 89 | 0.00 | 12.01 |
| 81 | t | O-XYLENE | 1.287 | 1.234 | 4.1 | 89 | 0.00 | 12.96 |
| 82 | T | STYRENE | 0.860 | 0.945 | -9.9 | 89 | 0.00 | 12.75 |
| 83 | T | NONANE | 1.107 | 1.038 | 6.2 | 83 | 0.00 | 14.09 |
| 84 | T | BROMOFORM | 0.702 | 0.685 | 2.4 | 85 | 0.00 | 11.83 |
| 85 | T | 1,1,2,2-TETRACHLOROETHANE | 0.914 | 0.972 | -6.3 | 92 | 0.00 | 12.99 |
| 86 | T | 1,2,3-TRICHLOROPROPANE | 0.715 | 0.729 | -2.0 | 89 | 0.00 | 13.27 |
| 87 | S | 4-BROMOFLUOROBENZENE | 0.698 | 0.704 | -0.9 | 87 | 0.00 | 14.03 |
| 88 | T | ISOPROPYLBENZENE | 1.774 | 1.813 | -2.2 | 88 | 0.00 | 14.50 |
| 89 | T | BROMOBENZENE | 0.856 | 0.896 | -4.7 | 90 | 0.00 | 14.37 |
| 90 | T | 2-CHLOROTOLUENE | 1.158 | 1.271 | -9.8 | 90 | 0.00 | 15.53 |
| 91 | T | N-PROPYLBENZENE | 1.955 | 2.198 | -12.4 | 90 | 0.00 | 15.86 |
| 92 | T | 4-ETHYLTOLUENE | 1.581 | 1.840 | -16.4 | 89 | 0.00 | 16.20 |
| 93 | T | 1,3,5-TRIMETHYLBENZENE | 1.337 | 1.526 | -14.1 | 91 | 0.00 | 16.35 |
| 94 | T | ALPHA-METHYLSTYRENE | 0.670 | 0.819 | -22.2 | 98 | 0.00 | 16.55 |
| 95 | T | TERT-BUTYLBENZENE | 1.501 | 1.718 | -14.5 | 90 | 0.00 | 16.80 |
| 96 | T | 1,2,4-TRIMETHYLBENZENE | 1.381 | 1.602 | -16.0 | 91 | 0.00 | 16.81 |
| 97 | T | BENZYL CHLORIDE | 0.837 | 0.932 | -11.4 | 94 | 0.00 | 16.89 |
| 98 | T | M-DICHLOROBENZENE | 0.961 | 1.069 | -11.2 | 92 | 0.00 | 16.86 |
| 99 | T | P-DICHLOROBENZENE | 0.959 | 1.093 | -14.0 | 94 | 0.00 | 16.95 |
| 100 | T | O-DICHLOROBENZENE | 0.940 | 1.055 | -12.2 | 95 | 0.00 | 17.24 |

# Continuing Calibration Summary

**Job Number:** JD54338 **Sample:** V6W1138-CC1125
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26863.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 101 | T | SEC-BUTYLBENZENE | 2.046 | 2.360 | -15.3 | 91 | 0.00 | 17.07 |
| 102 | T | 1,2,3-TRIMETHYLBENZENE | 1.353 | 1.555 | -14.9 | 90 | 0.00 | 17.18 |
| 103 | T | P-ISOPROPYLTOLUENE | 1.754 | 2.025 | -15.5 | 90 | 0.00 | 17.25 |
| 104 | T | N-BUTYLBENZENE | 1.559 | 1.949 | -25.0 | 94 | 0.00 | 17.59 |
| 105 | T | HEXACHLOROETHANE | 0.637 | 0.674 | -5.8 | 94 | 0.00 | 17.77 |
| 106 | T | HEXACHLOROBUTADIENE | 0.696 | 0.787 | -13.1 | 101 | 0.02 | 18.80 |
| 107 | T | 1,2,4-TRICHLOROBENZENE | 0.781 | 0.945 | -21.0 | 104 | 0.01 | 18.49 |
| 108 | T | NAPHTHALENE | 1.925 | 2.563 | -33.1# | 113 | 0.01 | 18.54 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6W26454.D M6W1125.M Tue Nov 08 15:59:21 2022

# Run Sequence Report



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V2W2709 | **Method:** TO-15 | **Instrument ID:** GCMS2W |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2W2709-BFB | 2W61009.D | 08/19/22 10:50 | n/a | BFB Tune |
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | n/a | Initial cal 0.04 |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | n/a | Initial cal 0.1 |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | n/a | Initial cal 0.2 |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | n/a | Initial cal 0.5 |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | n/a | Initial cal 5 |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | n/a | Initial cal 10 |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | n/a | Initial cal 20 |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | n/a | Initial cal 40 |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | n/a | Initial cal 50 |
| V2W2709-ICV2709 | 2W61022.D | 08/19/22 18:00 | n/a | Initial cal verification 10 |

# Run Sequence Report



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V2W2734 | **Method:** TO-15 | **Instrument ID:** GCMS2W |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2W2734-BFB | 2W61610.D | 09/27/22 07:25 | n/a | BFB Tune |
| V2W2734-CC2709 | 2W61611.D | 09/27/22 07:58 | n/a | Continuing cal 10 |
| V2W2734-BS | 2W61612.D | 09/27/22 08:57 | n/a | Blank Spike |
| V2W2734-BSD | 2W61613.D | 09/27/22 09:29 | n/a | Blank Spike Duplicate |
| V2W2734-MB | 2W61615.D | 09/27/22 10:49 | n/a | Method Blank |
| ZZZZZZ | 2W61616.D | 09/27/22 11:38 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61617.D | 09/27/22 12:16 | n/a | (unrelated sample) |
| JD52279-6 | 2W61618.D | 09/27/22 12:55 | n/a | (used for QC only; not part of job JD54338) |
| JD52279-6DUP | 2W61619.D | 09/27/22 13:36 | n/a | Duplicate |
| ZZZZZZ | 2W61620.D | 09/27/22 14:08 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61621.D | 09/27/22 14:59 | n/a | (unrelated sample) |
| V2W2734-SCC | 2W61622.D | 09/27/22 15:37 | n/a | Summa Cleaning Certification |
| V2W2734-SCC | 2W61623.D | 09/27/22 16:15 | n/a | Summa Cleaning Certification |
| V2W2734-SCC | 2W61625.D | 09/27/22 17:24 | n/a | Summa Cleaning Certification |
| V2W2734-SCC | 2W61626.D | 09/27/22 17:57 | n/a | Summa Cleaning Certification |
| V2W2734-SCC | 2W61627.D | 09/27/22 18:29 | n/a | Summa Cleaning Certification |

# Run Sequence Report



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V6W1077 | **Method:** TO-15 | **Instrument ID:** GCMS6W |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V6W1077-BFB | 6W25315.D | 08/04/22 17:09 | n/a | BFB Tune |
| V6W1077-IC1077 | 6W25316.D | 08/04/22 17:54 | n/a | Initial cal 0.04 |
| V6W1077-IC1077 | 6W25317.D | 08/04/22 18:39 | n/a | Initial cal 0.1 |
| V6W1077-IC1077 | 6W25318.D | 08/04/22 19:25 | n/a | Initial cal 0.2 |
| V6W1077-IC1077 | 6W25319.D | 08/04/22 20:11 | n/a | Initial cal 0.5 |
| V6W1077-IC1077 | 6W25321.D | 08/04/22 21:41 | n/a | Initial cal 5 |
| V6W1077-ICC1077 | 6W25322.D | 08/04/22 22:26 | n/a | Initial cal 10 |
| V6W1077-IC1077 | 6W25323.D | 08/04/22 23:14 | n/a | Initial cal 20 |
| V6W1077-IC1077 | 6W25324.D | 08/05/22 00:05 | n/a | Initial cal 40 |
| V6W1077-IC1077 | 6W25325.D | 08/05/22 00:59 | n/a | Initial cal 50 |
| V6W1077-ICV1077 | 6W25328.D | 08/05/22 03:17 | n/a | Initial cal verification 10 |

# Run Sequence Report



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V6W1083 | **Method:** TO-15 | **Instrument ID:** GCMS6W |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V6W1083-BFB | 6W25438.D | 08/11/22 07:24 | n/a | BFB Tune |
| V6W1083-CC1077 | 6W25439.D | 08/11/22 08:20 | n/a | Continuing cal 10 |
| V6W1083-BS | 6W25440.D | 08/11/22 09:21 | n/a | Blank Spike |
| V6W1083-BSD | 6W25441.D | 08/11/22 10:25 | n/a | Blank Spike Duplicate |
| V6W1083-MB | 6W25444.D | 08/11/22 12:47 | n/a | Method Blank |
| JD49709-1 | 6W25445.D | 08/11/22 13:33 | n/a | (used for QC only; not part of job JD54338) |
| JD49709-1DUP | 6W25446.D | 08/11/22 14:19 | n/a | Duplicate |
| ZZZZZZ | 6W25447.D | 08/11/22 15:24 | n/a | (unrelated sample) |
| V6W1083-SCC | 6W25451.D | 08/11/22 18:38 | n/a | Summa Cleaning Certification |
| V6W1083-SCC | 6W25452.D | 08/11/22 19:25 | n/a | Summa Cleaning Certification |
| V6W1083-SCC | 6W25453.D | 08/11/22 20:12 | n/a | Summa Cleaning Certification |
| V6W1083-SCC | 6W25454.D | 08/11/22 20:58 | n/a | Summa Cleaning Certification |
| V6W1083-SCC | 6W25455.D | 08/11/22 21:50 | n/a | Summa Cleaning Certification |

# Run Sequence Report



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V6W1125 | **Method:** TO-15 | **Instrument ID:** GCMS6W |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V6W1125-BFB | 6W26446.D | 10/19/22 17:44 | n/a | BFB Tune |
| V6W1125-IC1125 | 6W26448.D | 10/19/22 19:10 | n/a | Initial cal 0.04 |
| V6W1125-IC1125 | 6W26449.D | 10/19/22 19:43 | n/a | Initial cal 0.1 |
| V6W1125-IC1125 | 6W26450.D | 10/19/22 20:15 | n/a | Initial cal 0.2 |
| V6W1125-IC1125 | 6W26451.D | 10/19/22 20:47 | n/a | Initial cal 0.5 |
| V6W1125-IC1125 | 6W26453.D | 10/19/22 21:52 | n/a | Initial cal 5 |
| V6W1125-ICC1125 | 6W26454.D | 10/19/22 22:25 | n/a | Initial cal 10 |
| V6W1125-IC1125 | 6W26455.D | 10/19/22 22:57 | n/a | Initial cal 20 |
| V6W1125-IC1125 | 6W26456.D | 10/19/22 23:29 | n/a | Initial cal 40 |
| V6W1125-IC1125 | 6W26457.D | 10/20/22 00:03 | n/a | Initial cal 50 |
| V6W1125-ICV1125 | 6W26462.D | 10/20/22 09:08 | n/a | Initial cal verification 10 |

# Run Sequence Report



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V6W1137 | **Method:** TO-15 | **Instrument ID:** GCMS6W |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V6W1137-BFB | 6W26822.D | 11/03/22 09:04 | n/a | BFB Tune |
| V6W1137-CC1125 | 6W26823.D | 11/03/22 09:36 | n/a | Continuing cal 10 |
| V6W1137-BS | 6W26824.D | 11/03/22 10:14 | n/a | Blank Spike |
| V6W1137-BSD | 6W26825.D | 11/03/22 10:45 | n/a | Blank Spike Duplicate |
| V6W1137-MB | 6W26830.D | 11/03/22 14:39 | n/a | Method Blank |
| ZZZZZZ | 6W26831.D | 11/03/22 15:48 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26832.D | 11/03/22 16:21 | n/a | (unrelated sample) |
| JD53652-1 | 6W26833.D | 11/03/22 16:53 | n/a | (used for QC only; not part of job JD54338) |
| JD53652-1DUP | 6W26834.D | 11/03/22 17:26 | n/a | Duplicate |
| ZZZZZZ | 6W26835.D | 11/03/22 17:59 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26836.D | 11/03/22 18:31 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26837.D | 11/03/22 19:03 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26838.D | 11/03/22 19:35 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26839.D | 11/03/22 20:07 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26840.D | 11/03/22 20:40 | n/a | (unrelated sample) |
| JD54338-1 | 6W26841.D | 11/03/22 21:12 | n/a | VPOST GAC |
| JD54338-2 | 6W26842.D | 11/03/22 21:46 | n/a | VINF |
| ZZZZZZ | 6W26843.D | 11/03/22 22:19 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26844.D | 11/03/22 22:51 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26846.D | 11/03/22 23:58 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26847.D | 11/04/22 00:31 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26848.D | 11/04/22 01:04 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26849.D | 11/04/22 01:37 | n/a | (unrelated sample) |
| V6W1137-SCC | 6W26852.D | 11/04/22 03:16 | n/a | Summa Cleaning Certification |
| V6W1137-SCC | 6W26853.D | 11/04/22 03:48 | n/a | Summa Cleaning Certification |
| V6W1137-SCC | 6W26854.D | 11/04/22 04:20 | n/a | Summa Cleaning Certification |
| V6W1137-SCC | 6W26855.D | 11/04/22 04:53 | n/a | Summa Cleaning Certification |
| V6W1137-SCC | 6W26856.D | 11/04/22 05:25 | n/a | Summa Cleaning Certification |
| V6W1137-SCC | 6W26859.D | 11/04/22 07:04 | n/a | Summa Cleaning Certification |
| V6W1137-SCC | 6W26860.D | 11/04/22 07:37 | n/a | Summa Cleaning Certification |

# Run Sequence Report



**Job Number:** JD54338
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V6W1138 | **Method:** TO-15 | **Instrument ID:** GCMS6W |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V6W1138-BFB | 6W26862.D | 11/04/22 09:04 | n/a | BFB Tune |
| V6W1138-CC1125 | 6W26863.D | 11/04/22 09:36 | n/a | Continuing cal 10 |
| V6W1138-BS | 6W26864.D | 11/04/22 10:15 | n/a | Blank Spike |
| V6W1138-BSD | 6W26865.D | 11/04/22 10:47 | n/a | Blank Spike Duplicate |
| V6W1138-MB | 6W26867.D | 11/04/22 11:58 | n/a | Method Blank |
| JD54338-1 | 6W26868.D | 11/04/22 12:51 | n/a | VPOST GAC |
| ZZZZZZ | 6W26869.D | 11/04/22 13:22 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26870.D | 11/04/22 13:54 | n/a | (unrelated sample) |
| JD54423-15 | 6W26871.D | 11/04/22 14:27 | n/a | (used for QC only; not part of job JD54338) |
| JD54423-15DUP | 6W26872.D | 11/04/22 15:00 | n/a | Duplicate |
| ZZZZZZ | 6W26874.D | 11/04/22 16:06 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26876.D | 11/04/22 17:10 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26878.D | 11/04/22 18:16 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26880.D | 11/04/22 19:21 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26882.D | 11/04/22 20:25 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26884.D | 11/04/22 21:30 | n/a | (unrelated sample) |
| V6W1138-SCC | 6W26899.D | 11/05/22 05:49 | n/a | Summa Cleaning Certification |
| V6W1138-SCC | 6W26900.D | 11/05/22 06:21 | n/a | Summa Cleaning Certification |

## MS Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/22 11:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26841.D
Acq On : 3 Nov 2022 9:12 pm
Operator : thomash
Sample : jd54338-1
Misc : MS63293,V6W1137,100,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 08 13:33:03 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

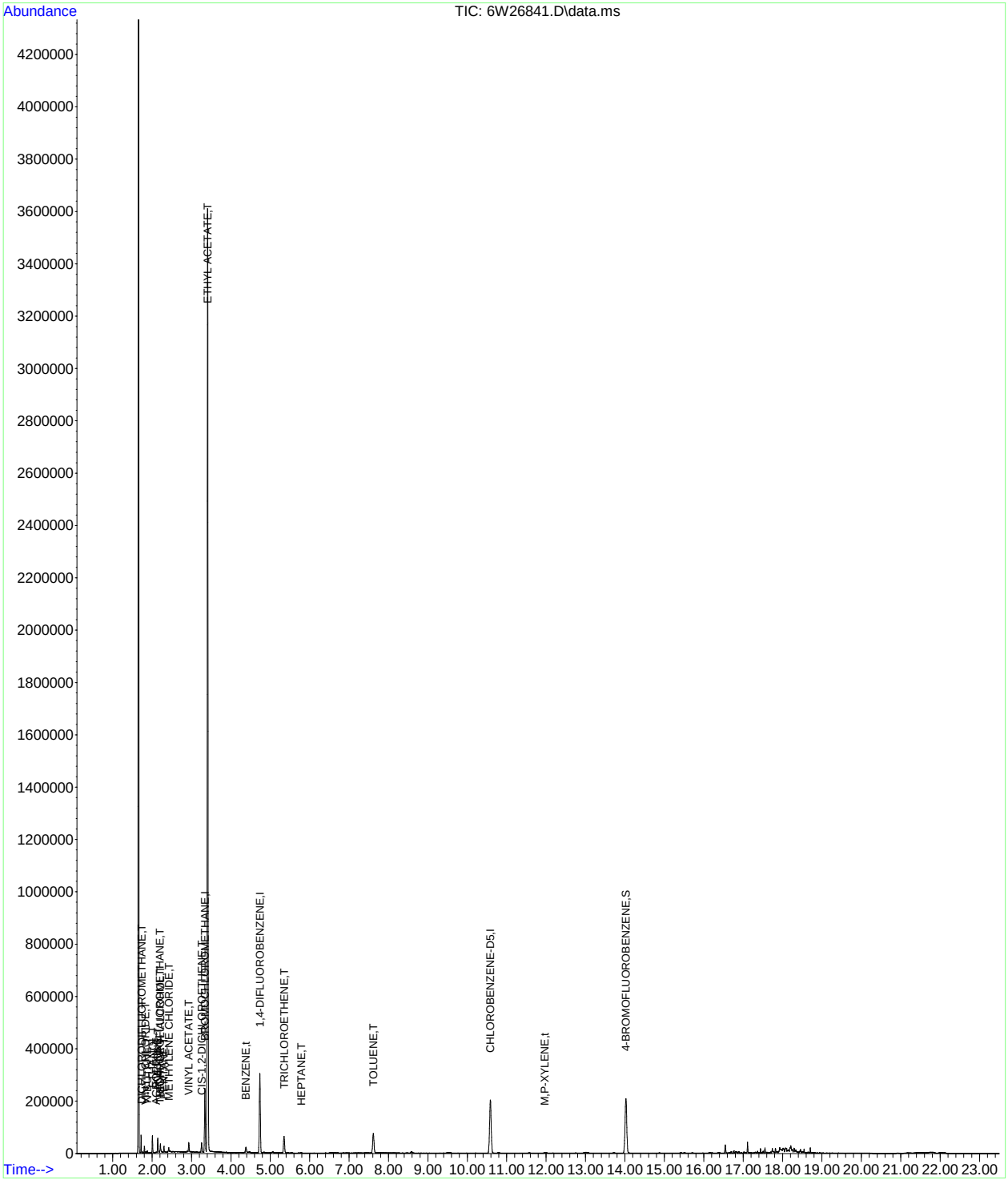
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.341 | 128 | 44814 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.737 | 114 | 228657 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 182102 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.022 | 95 | 125264 | 9.85 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 6) DICHLORODIFLUOROMETHANE | 1.734 | 85 | 1842 | 0.13 | PPBV | # 93 |
| 11) VINYL CHLORIDE | 1.830 | 62 | 2245 | 0.37 | PPBV | # 95 |
| 13) N-BUTANE | 1.881 | 43 | 3721 | 0.33 | PPBV | # 60 |
| 18) ACROLEIN | 2.103 | 56 | 969 | 0.36 | PPBV | 96 |
| 21) TRICHLOROFLUOROMETHANE | 2.193 | 101 | 1629 | 0.11 | PPBV | # 94 |
| 22) ISOPROPYL ALCOHOL | 2.213 | 45 | 20371 | 1.38 | PPBV | # 88 |
| 23) ACETONE | 2.142 | 58 | 9641 | 2.91 | PPBV | # 45 |
| 24) PENTANE | 2.303 | 42 | 4506 | 0.57 | PPBV | # 94 |
| 28) ETHANOL | 2.010 | 45 | 33856 | 9.95 | PPBV | 97 |
| 31) METHYLENE CHLORIDE | 2.425 | 84 | 3283 | 0.59 | PPBV | # 59 |
| 39) VINYL ACETATE | 2.933 | 86 | 2856 | 1.92 | PPBV | # 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.258 | 96 | 10461 | 1.61 | PPBV | # 79 |
| 44) ETHYL ACETATE | 3.412 | 61 | 414072 | 174.21 | PPBV | # 13 |
| 51) BENZENE | 4.380 | 78 | 15042 | 0.75 | PPBV | 81 |
| 55) TRICHLOROETHENE | 5.351 | 95 | 21415 | 2.39 | PPBV | 99 |
| 62) HEPTANE | 5.782 | 43 | 1602 | 0.11 | PPBV | # 54 |
| 66) TOLUENE | 7.614 | 91 | 71451 | 2.82 | PPBV | 99 |
| 80) M,P-XYLENE | 11.958 | 91 | 2488m | 0.11 | PPBV | |

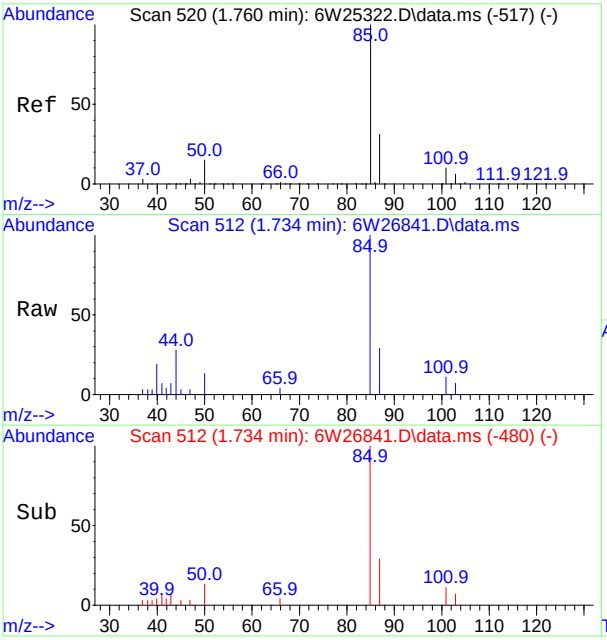
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26841.D
Acq On : 3 Nov 2022 9:12 pm
Operator : thomash
Sample : jd54338-1
Misc : MS63293,V6W1137,100,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 08 13:33:03 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

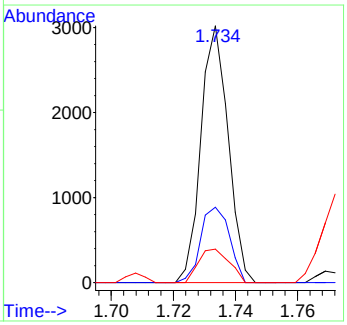


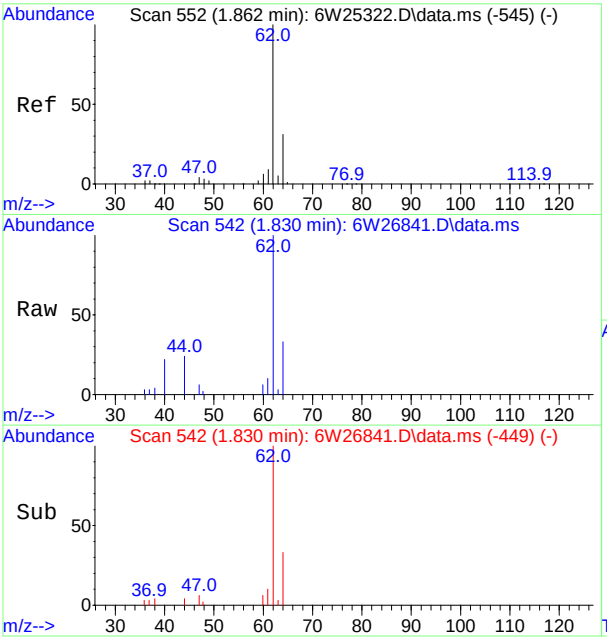



#6
DICHLORODIFLUOROMETHANE
Concen: 0.13 PPBV
RT: 1.734 min Scan# 512
Delta R.T. 0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 85 Resp: 1842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.2 | 25.8 | 38.6 |
| 50 | 0.0 | 7.4 | 11.2# |

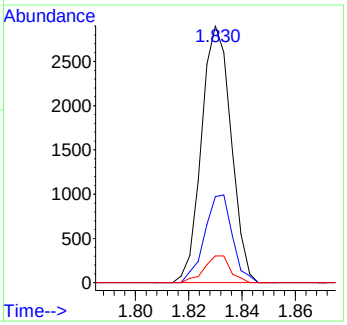


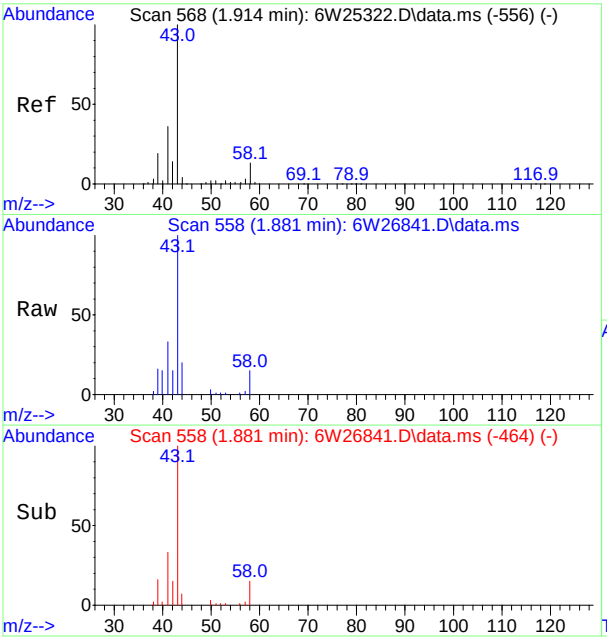




#11
VINYL CHLORIDE
Concen: 0.37 PPBV
RT: 1.830 min Scan# 542
Delta R.T. 0.000 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 62 Resp: 2245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.0 | 25.7 | 38.5 |
| 61 | 0.0 | 6.7 | 10.1# |

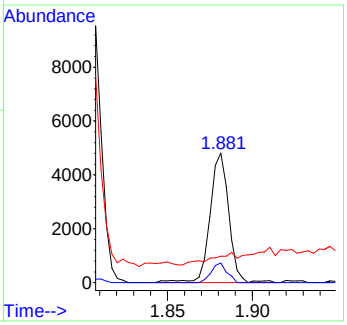


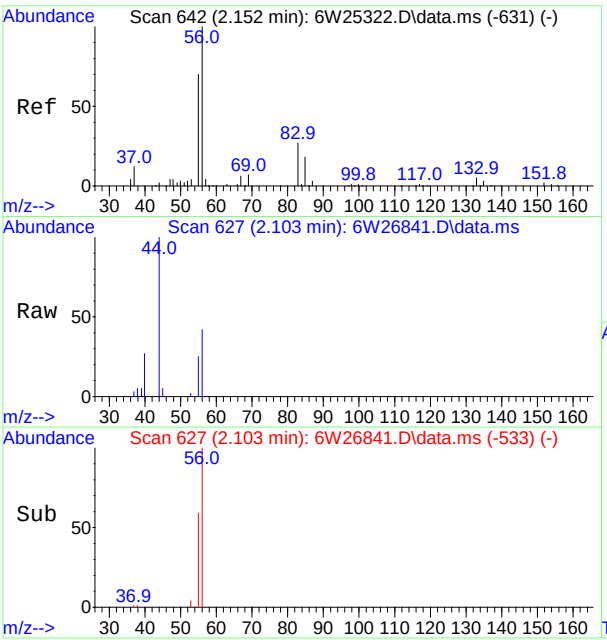



#13
N-BUTANE
Concen: 0.33 PPBV
RT: 1.881 min Scan# 558
Delta R.T. 0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 43 Resp: 3721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 14.2 | 21.2# |
| 44 | 18.2 | 4.2 | 6.4# |

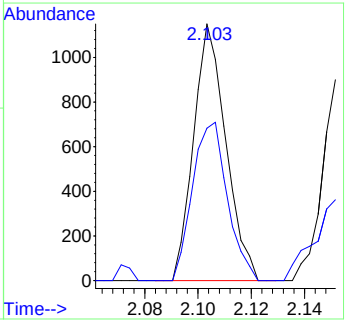


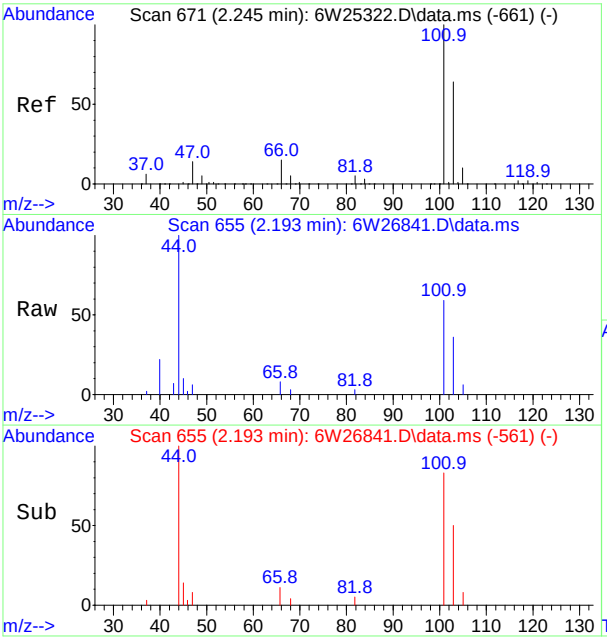




#18
ACROLEIN
Concen: 0.36 PPBV
RT: 2.103 min Scan# 627
Delta R.T. 0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 56 Resp: 969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 66.7 | 56.0 | 84.0 |

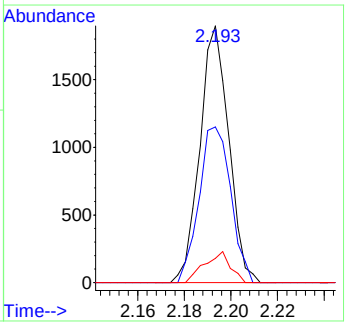


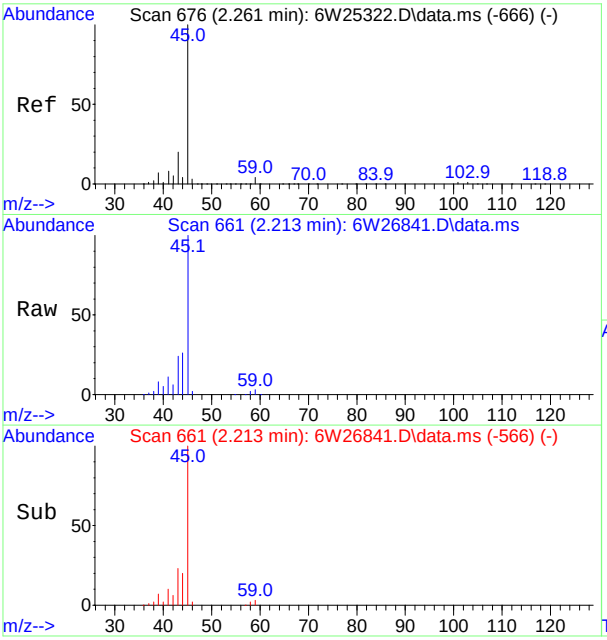



#21
TRICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 2.193 min Scan# 655
Delta R.T. 0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion:101 Resp: 1629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.8 | 51.8 | 77.6 |
| 105 | 0.0 | 8.4 | 12.6# |

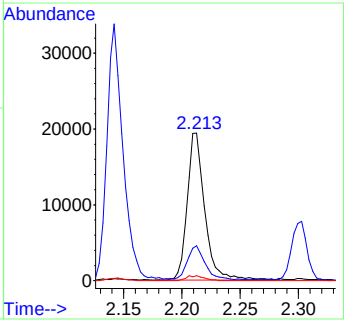


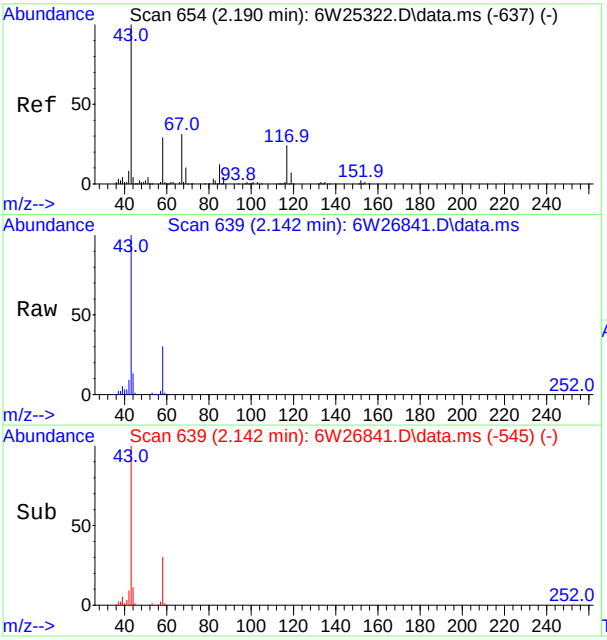




#22
ISOPROPYL ALCOHOL
Concen: 1.38 PPBV
RT: 2.213 min Scan# 661
Delta R.T. 0.007 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 45 Resp: 20371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 25.9 | 15.5 | 23.3# |
| 59 | 3.4 | 4.1 | 6.1# |

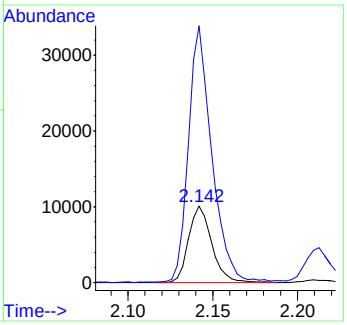


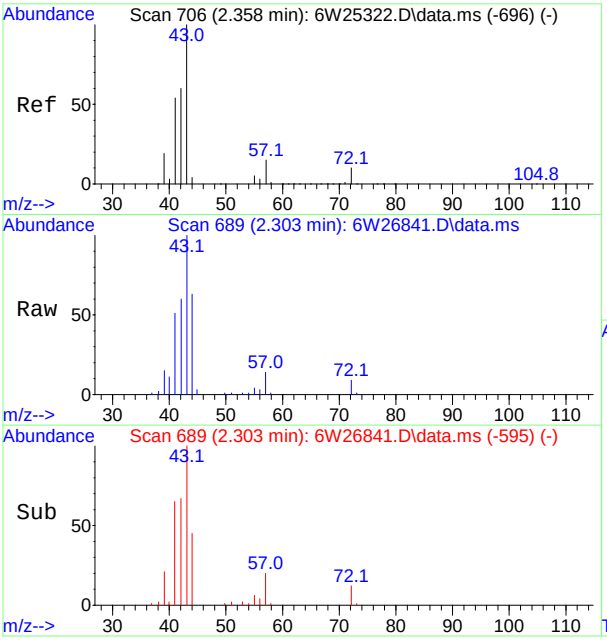



#23
ACETONE
Concen: 2.91 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 58 Resp: 9641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 340.3 | 195.9 | 293.9# |

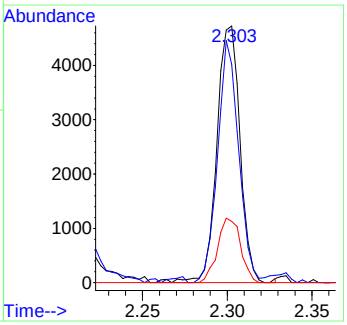


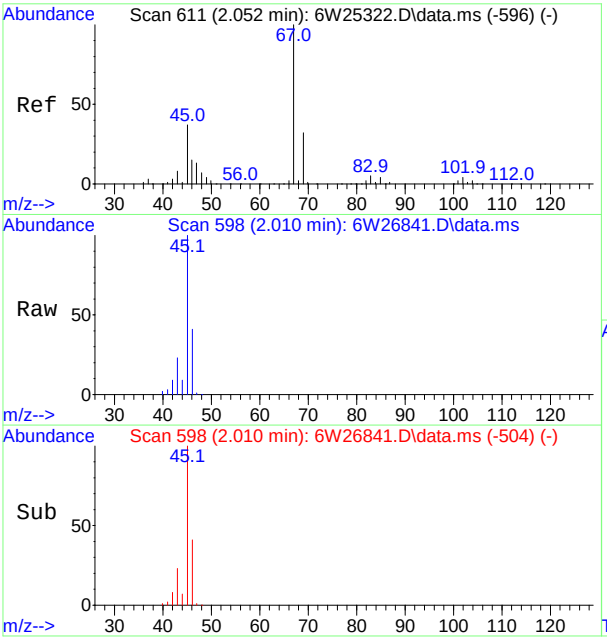




#24
PENTANE
Concen: 0.57 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 42 Resp: 4506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 41 | 88.7 | 69.5 | 104.3 |
| 57 | 25.0 | 27.4 | 41.0# |

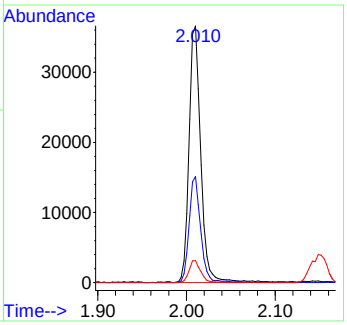


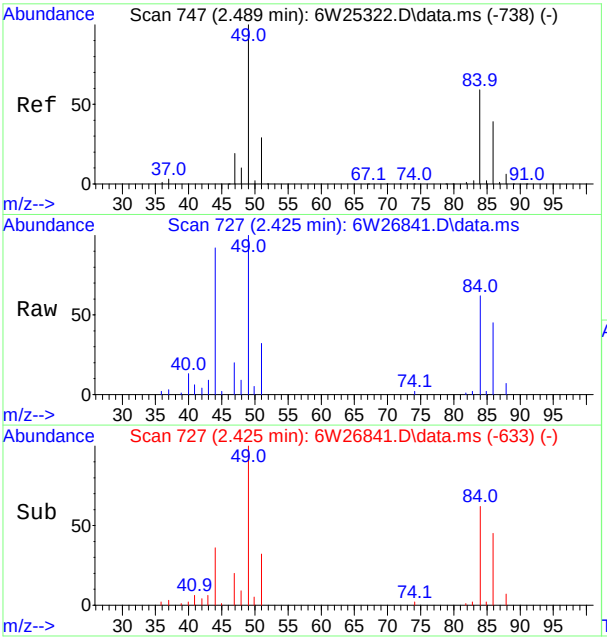



#28
ETHANOL
Concen: 9.95 PPBV
RT: 2.010 min Scan# 598
Delta R.T. 0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 45 Resp: 33856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 40.6 | 34.1 | 51.1 |
| 42 | 8.6 | 6.1 | 9.1 |

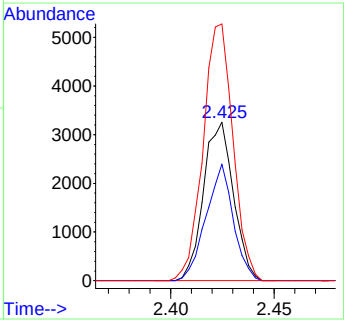


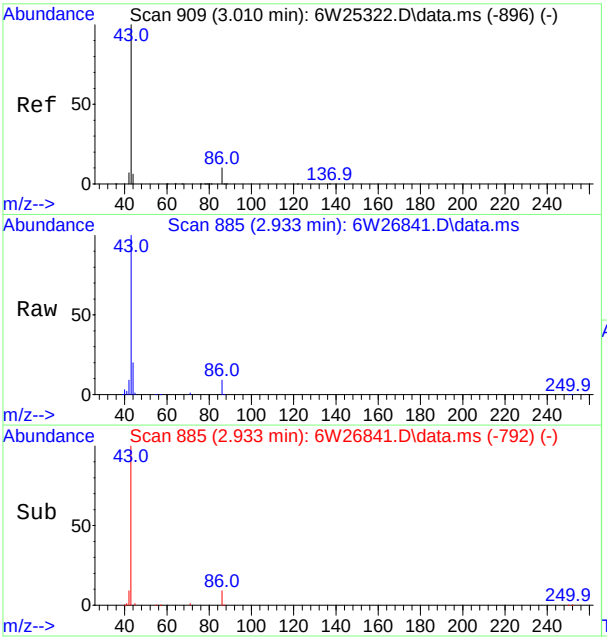




#31
METHYLENE CHLORIDE
Concen: 0.59 PPBV
RT: 2.425 min Scan# 727
Delta R.T. 0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 84 Resp: 3283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 66.8 | 50.9 | 76.3 |
| 49 | 161.7 | 78.6 | 118.0# |

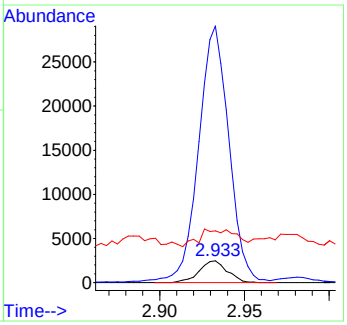


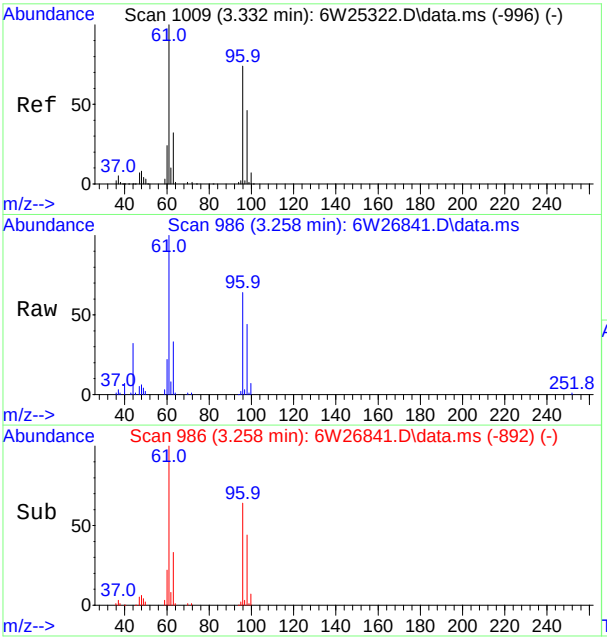



#39
VINYL ACETATE
Concen: 1.92 PPBV
RT: 2.933 min Scan# 885
Delta R.T. 0.000 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 86 Resp: 2856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 86 | 100 | | |
| 43 | 1279.8 | 626.3 | 939.5# |
| 44 | 124.8 | 34.5 | 51.7# |

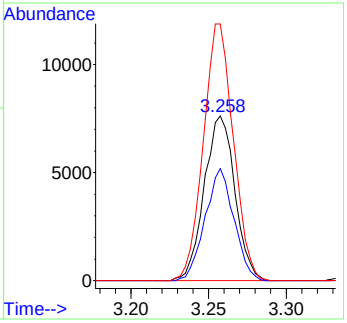


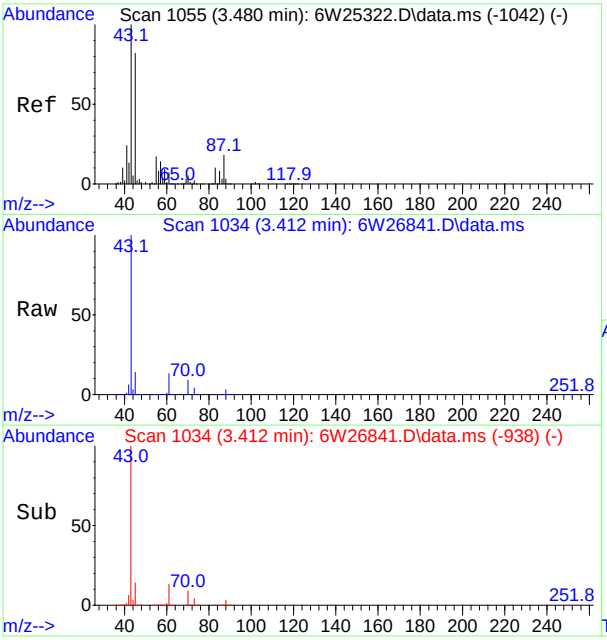




#42
CIS-1,2-DICHLOROETHENE
Concen: 1.61 PPBV
RT: 3.258 min Scan# 986
Delta R.T. 0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 96 Resp: 10461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 64.0 | 51.1 | 76.7 |
| 61 | 152.5 | 93.9 | 140.9# |

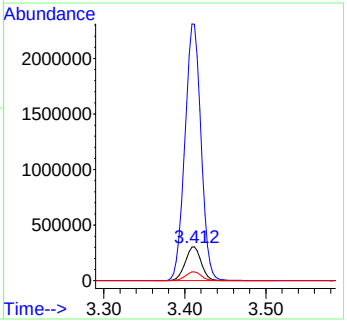


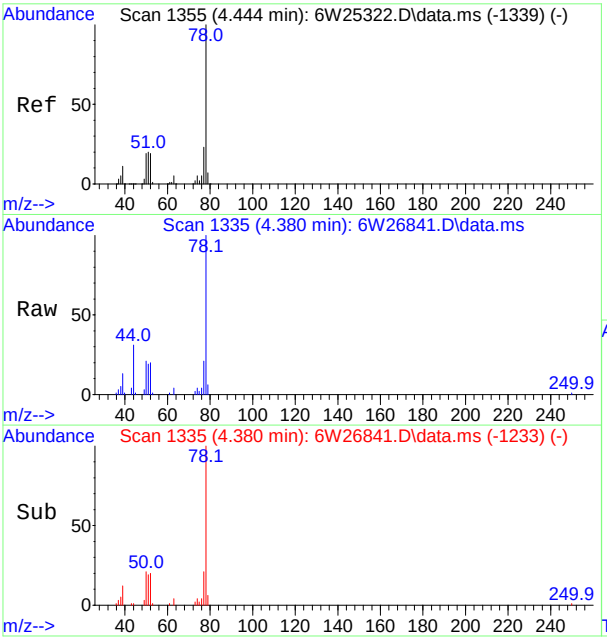



#44
ETHYL ACETATE
Concen: 174.21 PPBV
RT: 3.412 min Scan# 1034
Delta R.T. 0.010 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 61 Resp: 414072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 773.5 | 986.2 | 1479.2# |
| 88 | 26.0 | 38.8 | 58.2# |

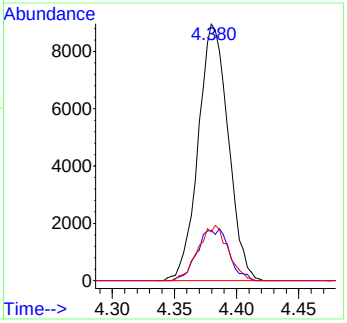


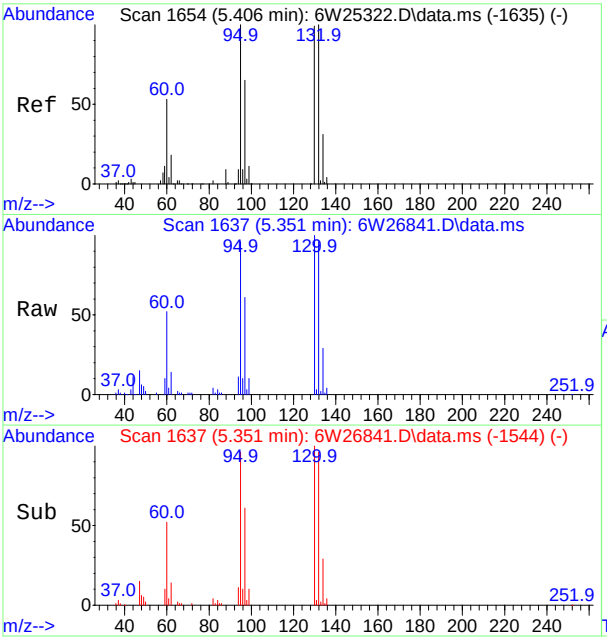




#51
BENZENE
Concen: 0.75 PPBV
RT: 4.380 min Scan# 1335
Delta R.T. -0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 78 Resp: 15042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 52 | 21.3 | 0.0 | 34.0 |
| 51 | 21.5 | 0.0 | 33.5 |

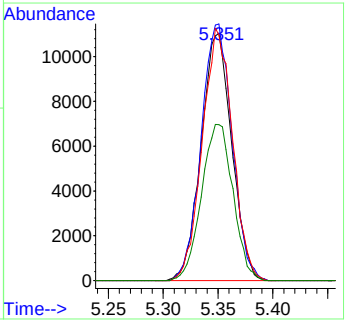


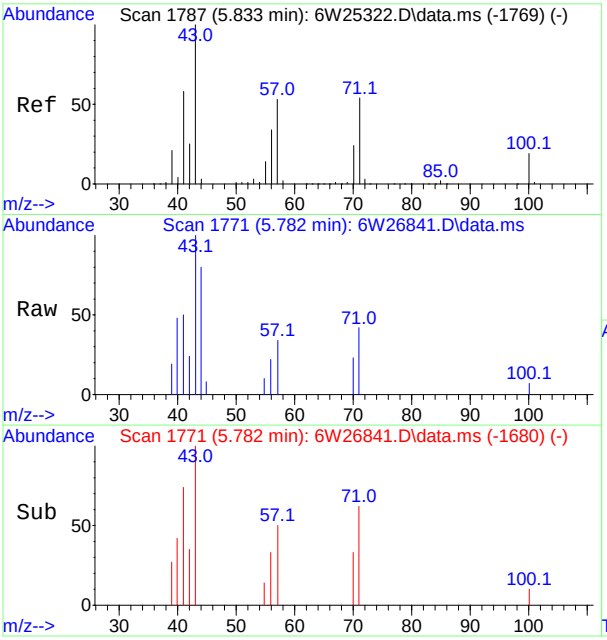



#55
TRICHLOROETHENE
Concen: 2.39 PPBV
RT: 5.351 min Scan# 1637
Delta R.T. 0.000 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 95 Resp: 21415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 104.7 | 83.2 | 124.8 |
| 132 | 100.6 | 79.8 | 119.6 |
| 97 | 64.8 | 51.3 | 76.9 |

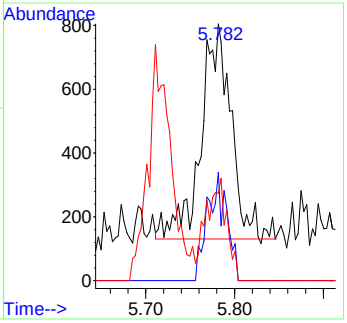


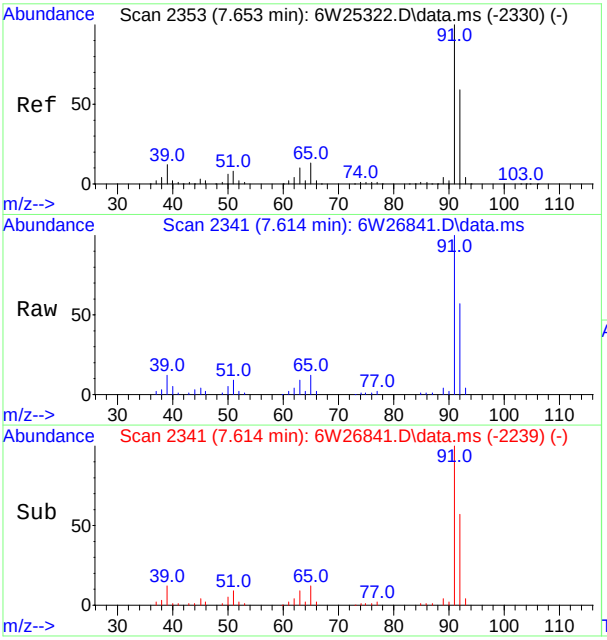




#62
HEPTANE
Concen: 0.11 PPBV
RT: 5.782 min Scan# 1771
Delta R.T. -0.006 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 43 Resp: 1602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 71 | 32.2 | 60.6 | 90.8# |
| 57 | 32.5 | 50.2 | 75.4# |

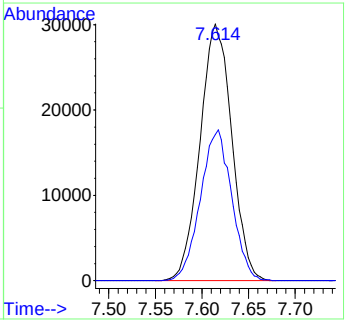


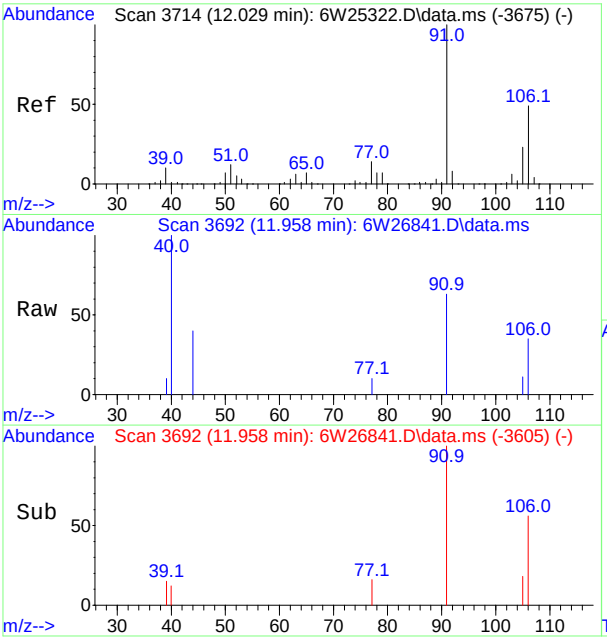



#66
TOLUENE
Concen: 2.82 PPBV
RT: 7.614 min Scan# 2341
Delta R.T. -0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 91 Resp: 71451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.9 | 38.9 | 78.9 |

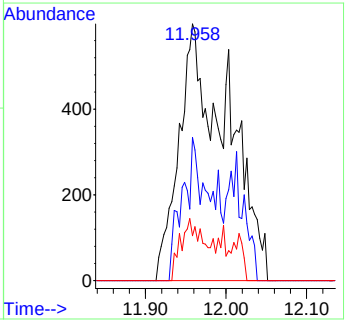



#80
M,P-XYLENE
Concen: 0.11 PPBV m
RT: 11.958 min Scan# 3692
Delta R.T. -0.051 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 91 Resp: 2488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.3 | 31.5 | 71.5 |
| 105 | 0.0 | 3.6 | 43.6# |



# Manual Integration Approval Summary



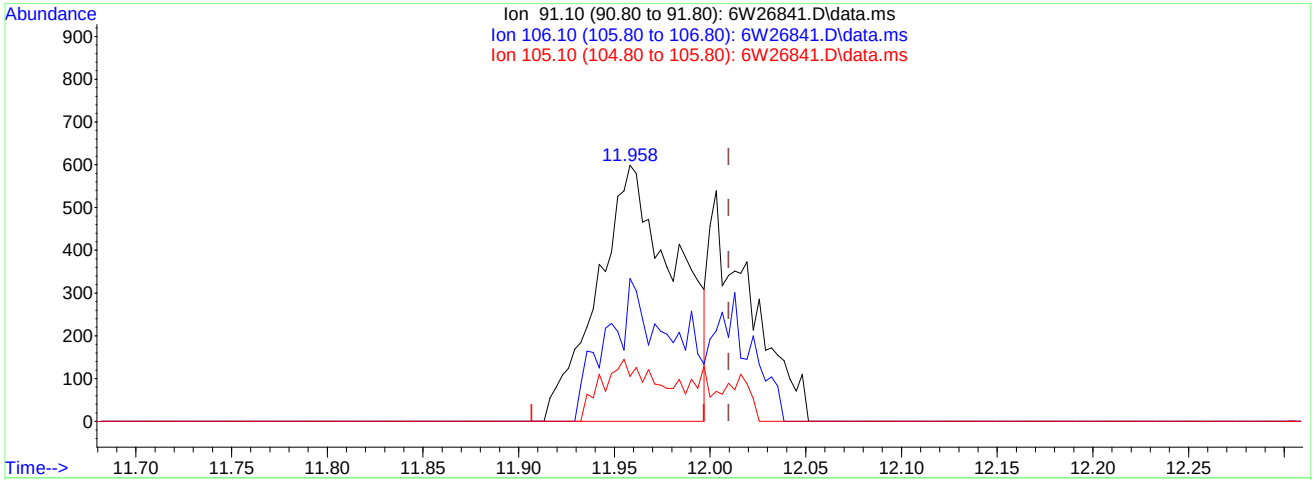
| | | | |
|---|---|---|---|
| **Sample Number:** | JD54338-1 | **Method:** | TO-15 |
| **Lab FileID:** | 6W26841.D | **Analyst approved:** | 11/08/22 13:45 William Cruser |
| **Injection Time:** | 11/03/22 21:12 | **Supervisor approved:** | 11/10/22 11:08 Kanya Veerawat |

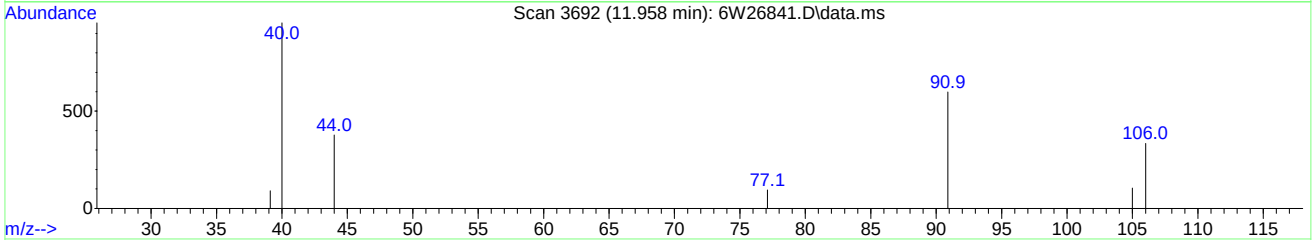
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| m,p-Xylene | | | 11.96 | Split peak |

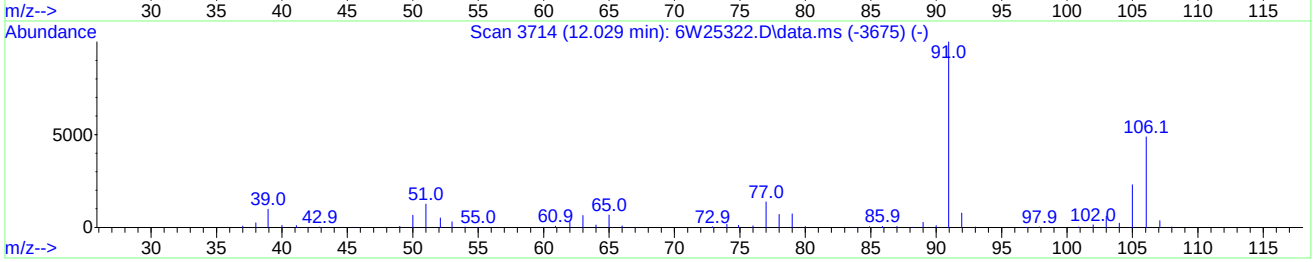
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26841.D
Acq On : 3 Nov 2022 9:12 pm
Operator : thomash
Sample : jd54338-1
Misc : MS63293,V6W1137,100,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 04 14:18:23 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26841.D\data.ms

(80) M,P-XYLENE (t)

11.958min (-0.051) 0.07PPBV

response 1689

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 71.17 |
| 105.10 | 23.60 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26868.D
Acq On : 4 Nov 2022 12:51 pm
Operator : thomash
Sample : jd54338-1
Misc : MS63437,V6W1138,10,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 10 09:01:31 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

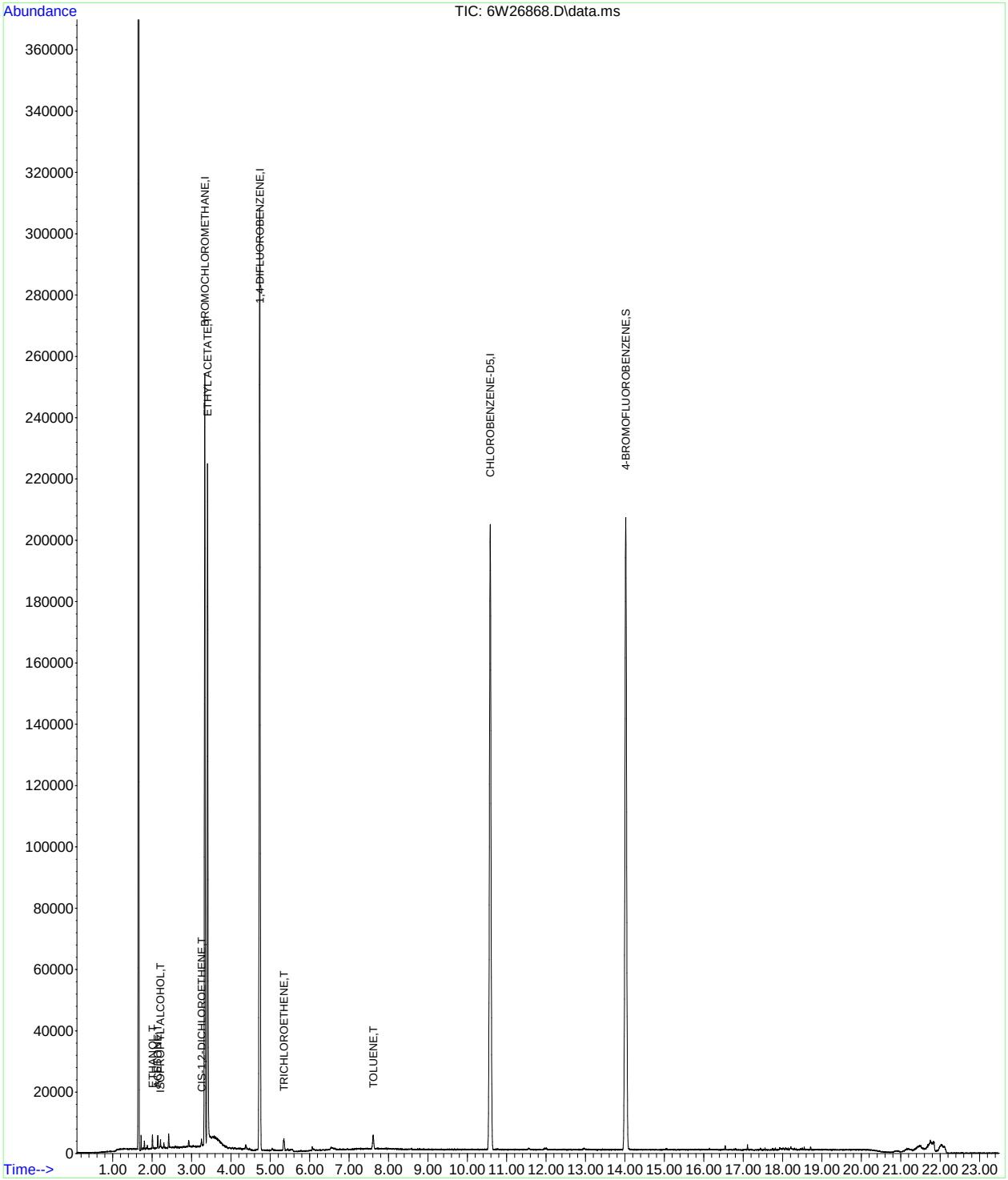
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 45513 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.733 | 114 | 230658 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 180587 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.019 | 95 | 122450 | 9.71 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 22) ISOPROPYL ALCOHOL | 2.213 | 45 | 1783 | 0.12 | PPBV | # 78 |
| 23) ACETONE | 2.142 | 58 | 814 | 0.24 | PPBV | # 40 |
| 28) ETHANOL | 2.010 | 45 | 2487 | 0.72 | PPBV | # 91 |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 677 | 0.10 | PPBV | # 53 |
| 44) ETHYL ACETATE | 3.409 | 61 | 24827 | 10.28 | PPBV | # 18 |
| 55) TRICHLOROETHENE | 5.344 | 95 | 1349 | 0.15 | PPBV | 97 |
| 66) TOLUENE | 7.614 | 91 | 4476 | 0.18 | PPBV | 96 |

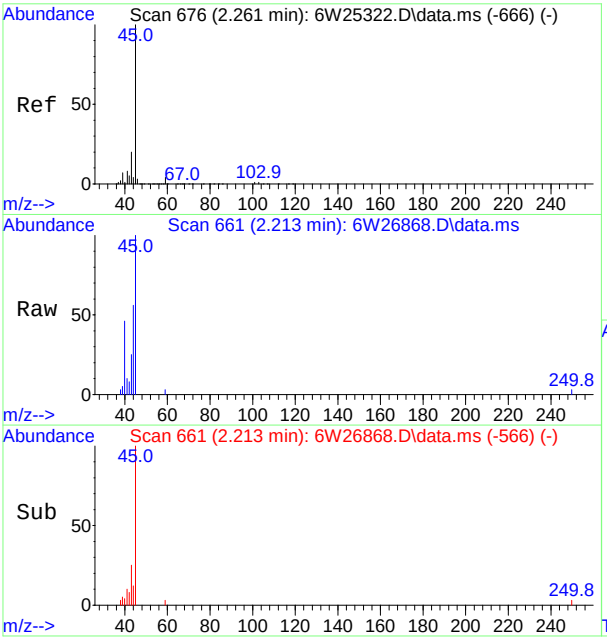
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26868.D
Acq On : 4 Nov 2022 12:51 pm
Operator : thomash
Sample : jd54338-1
Misc : MS63437,V6W1138,10,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 10 09:01:31 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

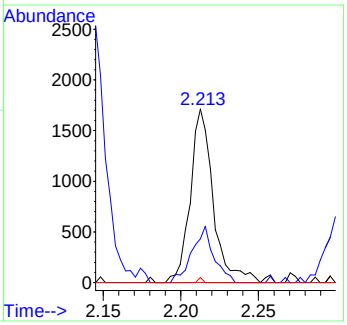


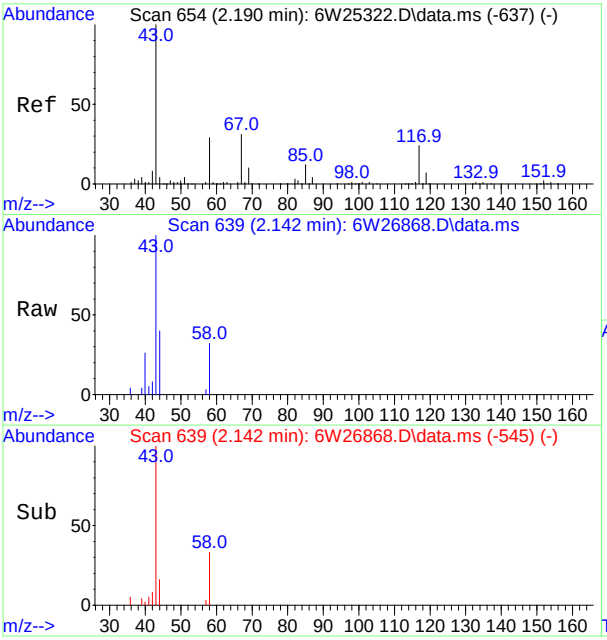



#22
ISOPROPYL ALCOHOL
Concen: 0.12 PPBV
RT: 2.213 min Scan# 661
Delta R.T. 0.007 min
Lab File: 6W26868.D
Acq: 4 Nov 2022 12:51 pm

Tgt Ion: 45 Resp: 1783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 30.2 | 15.5 | 23.3# |
| 59 | 0.0 | 4.1 | 6.1# |

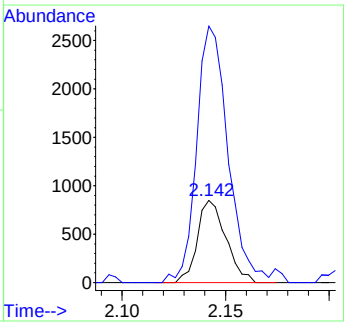


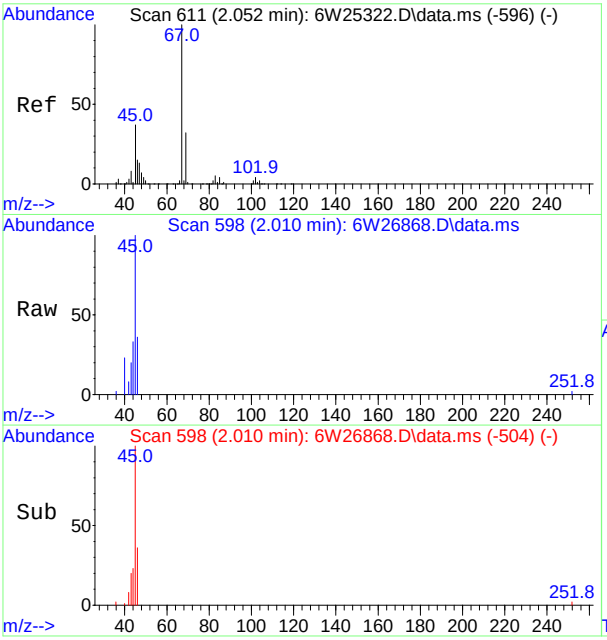




#23
ACETONE
Concen: 0.24 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.003 min
Lab File: 6W26868.D
Acq: 4 Nov 2022 12:51 pm

Tgt Ion: 58 Resp: 814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 347.9 | 195.9 | 293.9# |

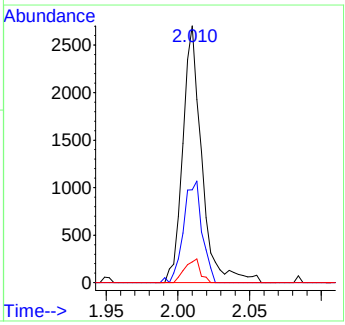


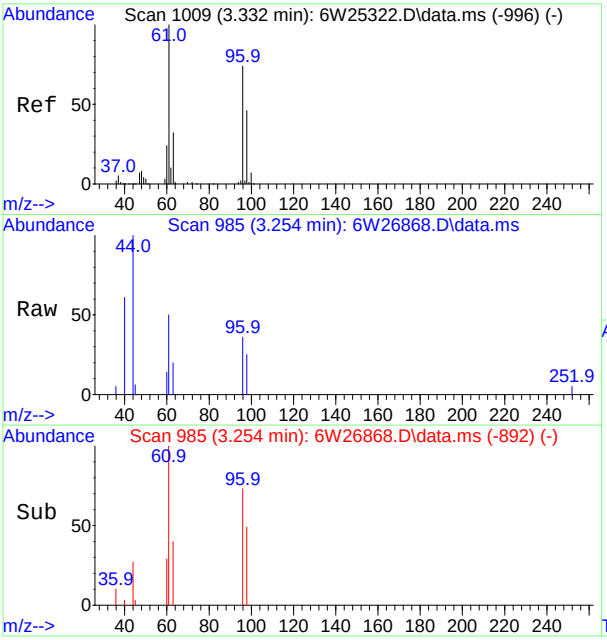



#28
ETHANOL
Concen: 0.72 PPBV
RT: 2.010 min Scan# 598
Delta R.T. 0.003 min
Lab File: 6W26868.D
Acq: 4 Nov 2022 12:51 pm

Tgt Ion: 45 Resp: 2487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 38.6 | 34.1 | 51.1 |
| 42 | 0.0 | 6.1 | 9.1# |

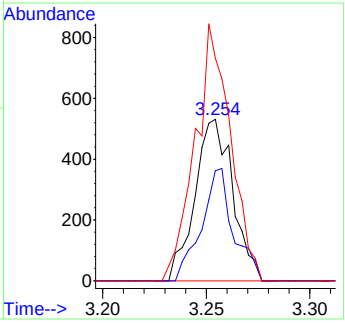


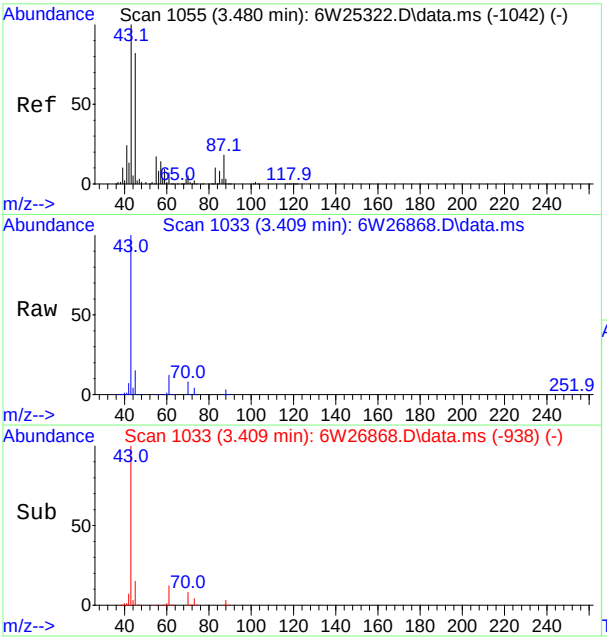




#42
CIS-1,2-DICHLOROETHENE
Concen: 0.10 PPBV
RT: 3.254 min Scan# 985
Delta R.T. 0.000 min
Lab File: 6W26868.D
Acq: 4 Nov 2022 12:51 pm

Tgt Ion: 96 Resp: 677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 0.0 | 51.1 | 76.7# |
| 61 | 148.9 | 93.9 | 140.9# |

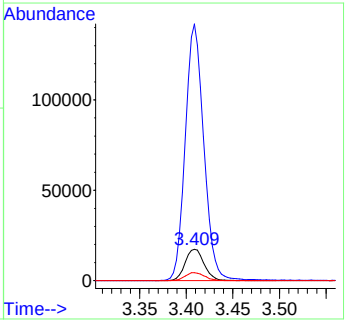


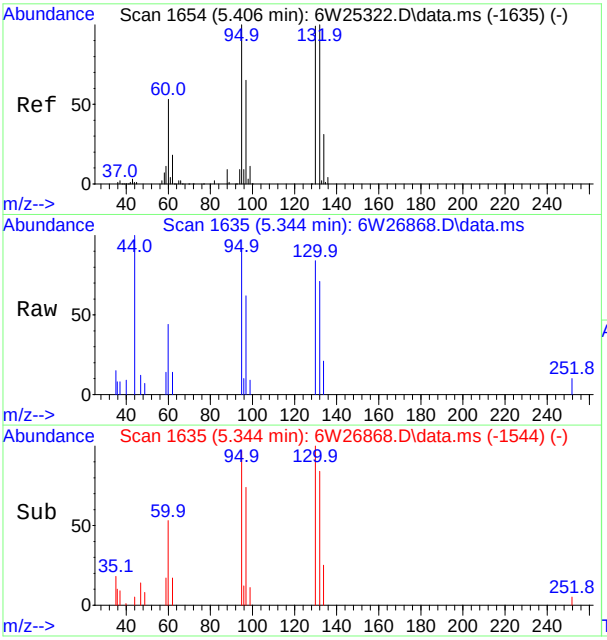



#44
ETHYL ACETATE
Concen: 10.28 PPBV
RT: 3.409 min Scan# 1033
Delta R.T. 0.007 min
Lab File: 6W26868.D
Acq: 4 Nov 2022 12:51 pm

Tgt Ion: 61 Resp: 24827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 796.4 | 986.2 | 1479.2# |
| 88 | 25.9 | 38.8 | 58.2# |

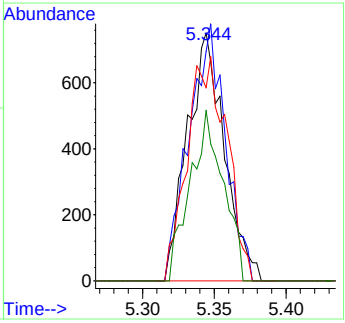


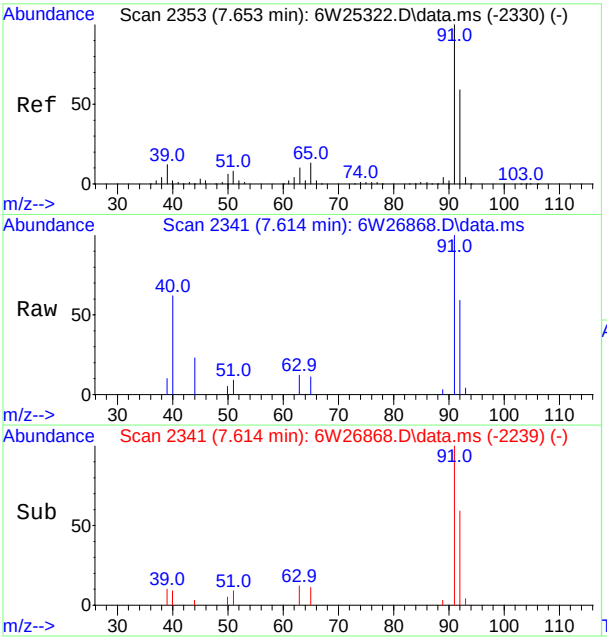




#55
TRICHLOROETHENE
Concen: 0.15 PPBV
RT: 5.344 min Scan# 1635
Delta R.T. -0.006 min
Lab File: 6W26868.D
Acq: 4 Nov 2022 12:51 pm

Tgt Ion: 95 Resp: 1349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 102.0 | 83.2 | 124.8 |
| 132 | 97.0 | 79.8 | 119.6 |
| 97 | 61.5 | 51.3 | 76.9 |

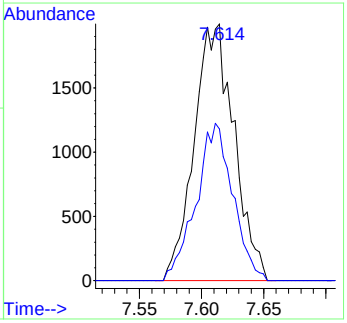





#66
TOLUENE
Concen: 0.18 PPBV
RT: 7.614 min Scan# 2341
Delta R.T. -0.003 min
Lab File: 6W26868.D
Acq: 4 Nov 2022 12:51 pm

Tgt Ion: 91 Resp: 4476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 56.3 | 38.9 | 78.9 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26842.D
Acq On : 3 Nov 2022 9:46 pm
Operator : thomash
Sample : jd54338-2
Misc : MS63293,V6W1137,148,,,,1.48
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 08 13:41:43 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

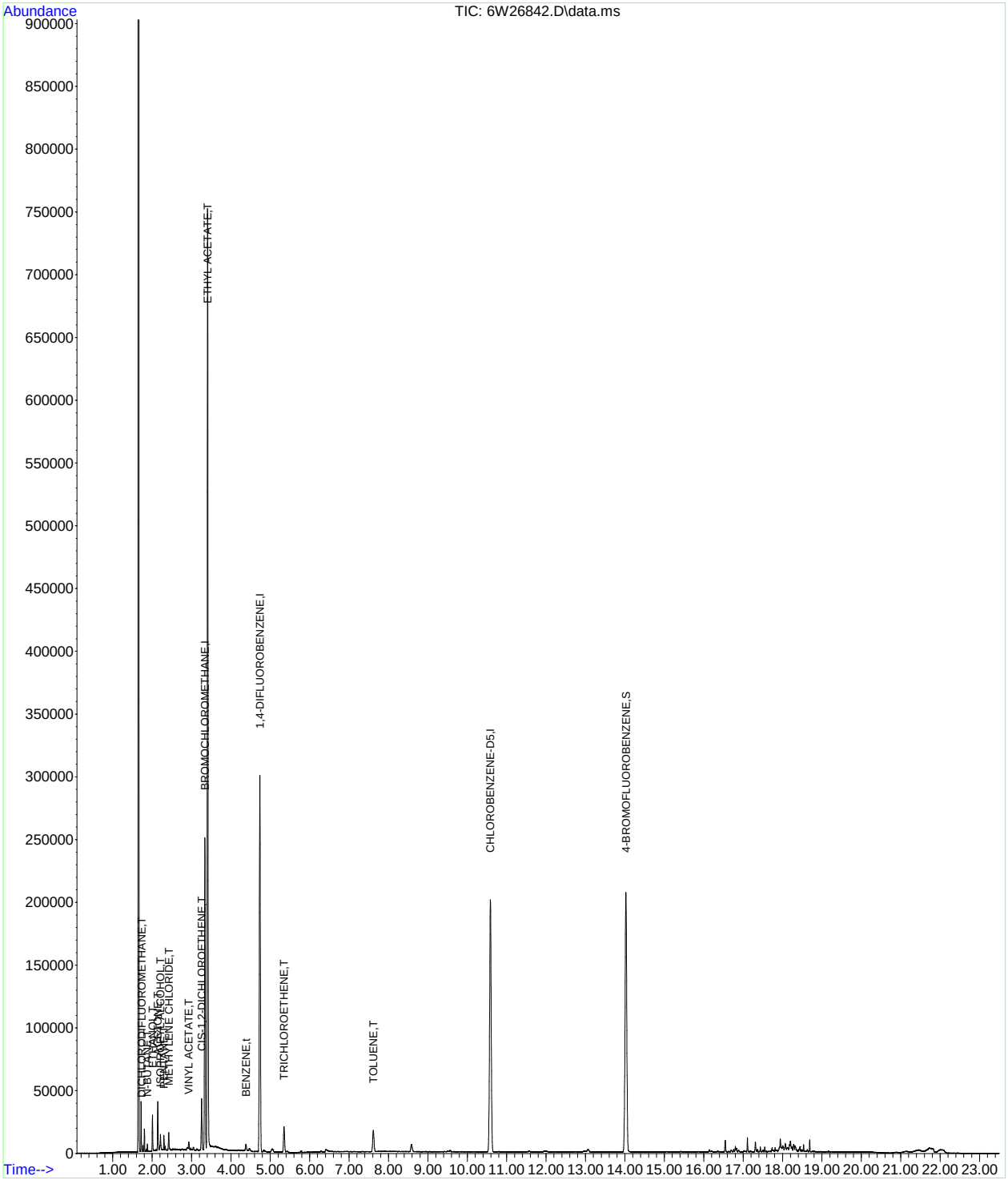
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.341 | 128 | 44877 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.737 | 114 | 225821 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 180115 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.029 | 95 | 123126 | 9.79 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 6) DICHLORODIFLUOROMETHANE | 1.734 | 85 | 1745 | 0.12 | PPBV | # 90 |
| 13) N-BUTANE | 1.881 | 43 | 2258 | 0.20 | PPBV | # 65 |
| 22) ISOPROPYL ALCOHOL | 2.213 | 45 | 7771 | 0.53 | PPBV | # 78 |
| 23) ACETONE | 2.145 | 58 | 7317 | 2.20 | PPBV | # 45 |
| 24) PENTANE | 2.303 | 42 | 2464 | 0.31 | PPBV | # 94 |
| 28) ETHANOL | 2.010 | 45 | 14645 | 4.30 | PPBV | 95 |
| 31) METHYLENE CHLORIDE | 2.425 | 84 | 2762 | 0.49 | PPBV | # 56 |
| 39) VINYL ACETATE | 2.933 | 86 | 533 | 0.36 | PPBV | # 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.258 | 96 | 11944 | 1.83 | PPBV | # 79 |
| 44) ETHYL ACETATE | 3.409 | 61 | 84085 | 35.33 | PPBV | # 18 |
| 51) BENZENE | 4.383 | 78 | 3716 | 0.19 | PPBV | 82 |
| 55) TRICHLOROETHENE | 5.348 | 95 | 6800 | 0.77 | PPBV | 98 |
| 66) TOLUENE | 7.614 | 91 | 16339 | 0.65 | PPBV | 98 |

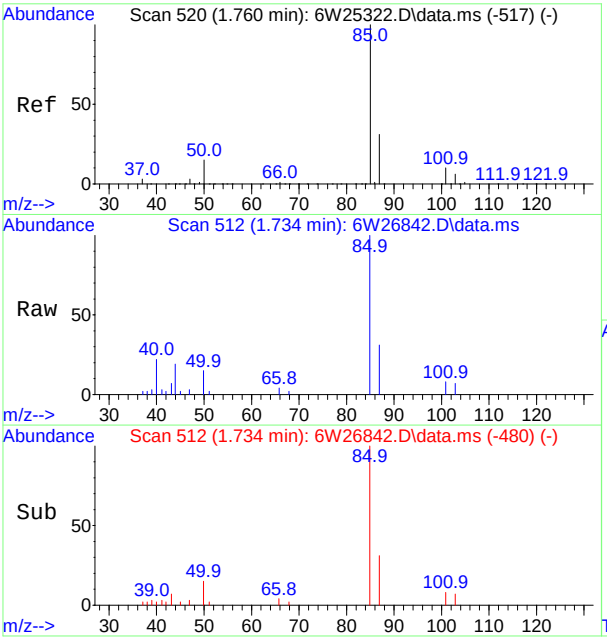
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26842.D
Acq On : 3 Nov 2022 9:46 pm
Operator : thomash
Sample : jd54338-2
Misc : MS63293,V6W1137,148,,,,1.48
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 08 13:41:43 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

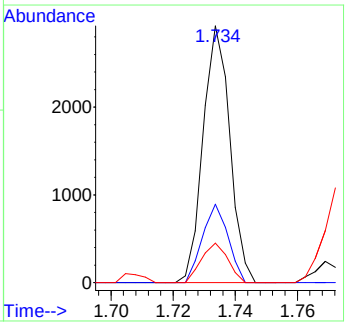


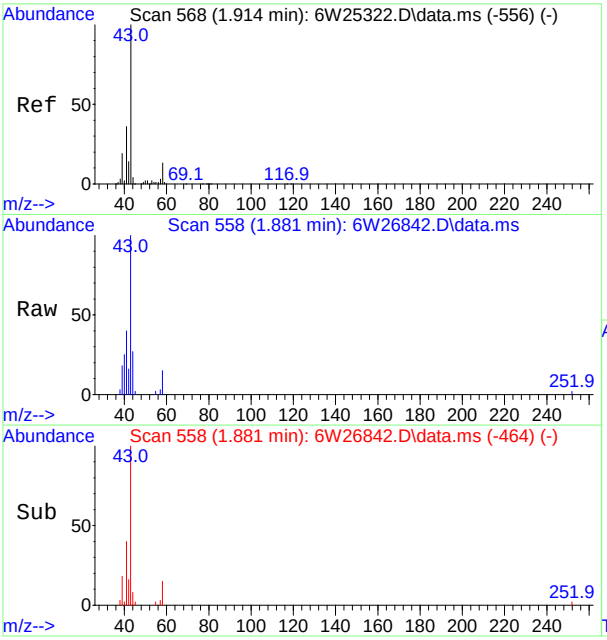



#6
DICHLORODIFLUOROMETHANE
Concen: 0.12 PPBV
RT: 1.734 min Scan# 512
Delta R.T. 0.003 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 85 Resp: 1745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.3 | 25.8 | 38.6 |
| 50 | 0.0 | 7.4 | 11.2# |

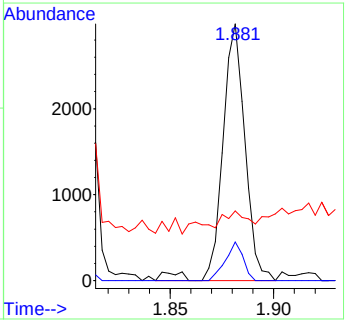


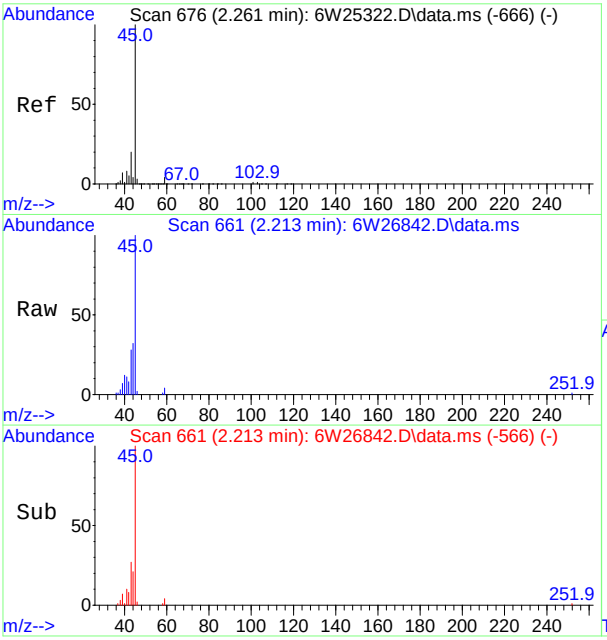




#13
N-BUTANE
Concen: 0.20 PPBV
RT: 1.881 min Scan# 558
Delta R.T. 0.003 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 43 Resp: 2258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 14.2 | 21.2# |
| 44 | 0.0 | 4.2 | 6.4# |

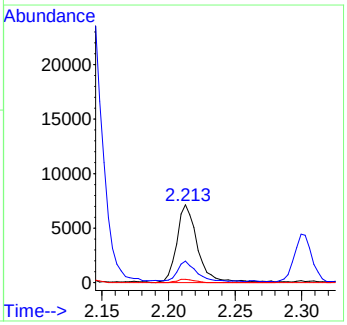


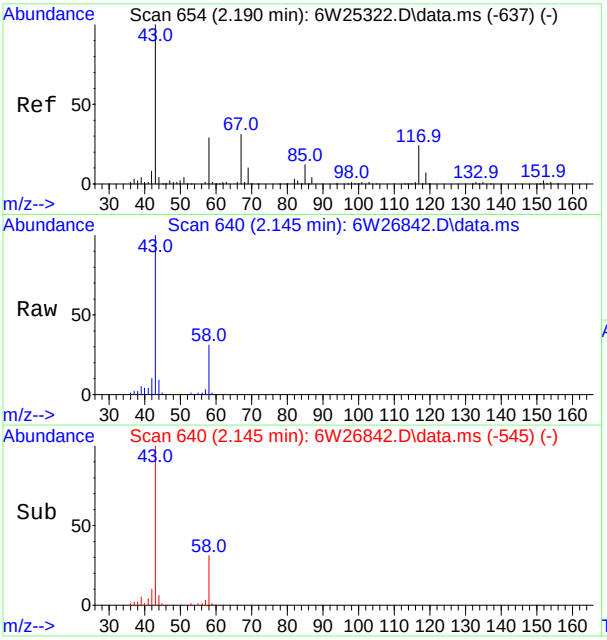



#22
ISOPROPYL ALCOHOL
Concen: 0.53 PPBV
RT: 2.213 min Scan# 661
Delta R.T. 0.007 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 45 Resp: 7771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 30.3 | 15.5 | 23.3# |
| 59 | 0.0 | 4.1 | 6.1# |

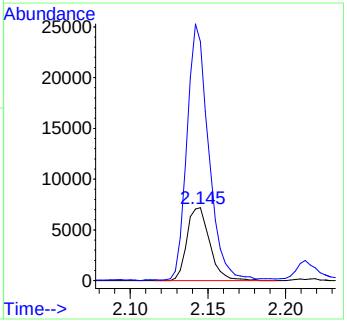


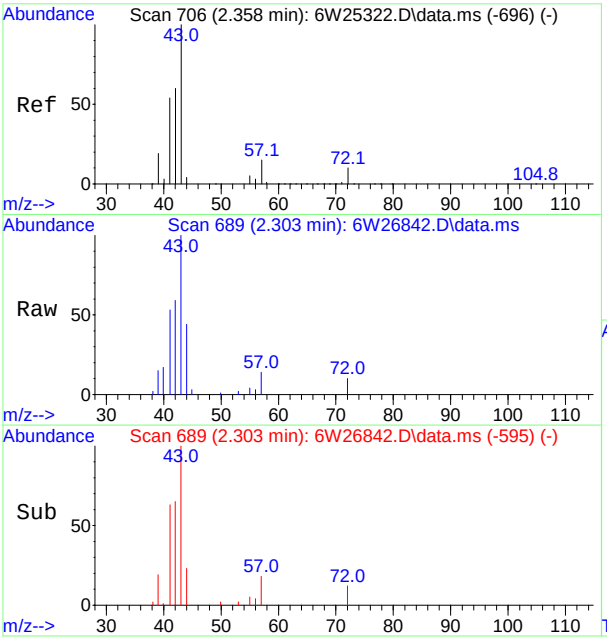




#23
ACETONE
Concen: 2.20 PPBV
RT: 2.145 min Scan# 640
Delta R.T. 0.007 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 58 Resp: 7317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 338.9 | 195.9 | 293.9# |

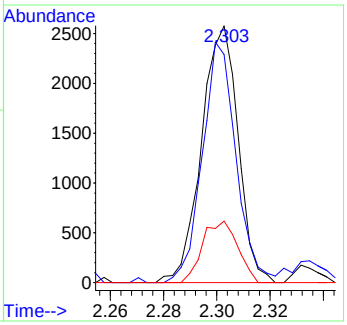


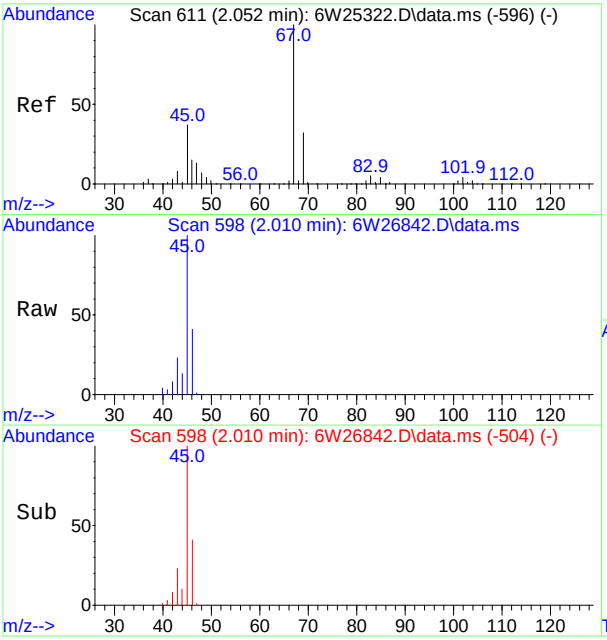



#24
PENTANE
Concen: 0.31 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.003 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 42 Resp: 2464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 41 | 86.4 | 69.5 | 104.3 |
| 57 | 22.9 | 27.4 | 41.0# |

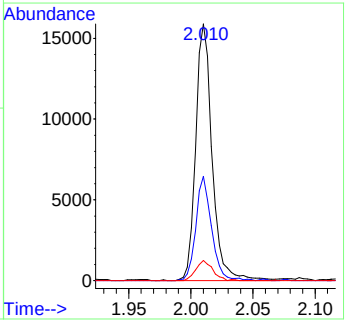


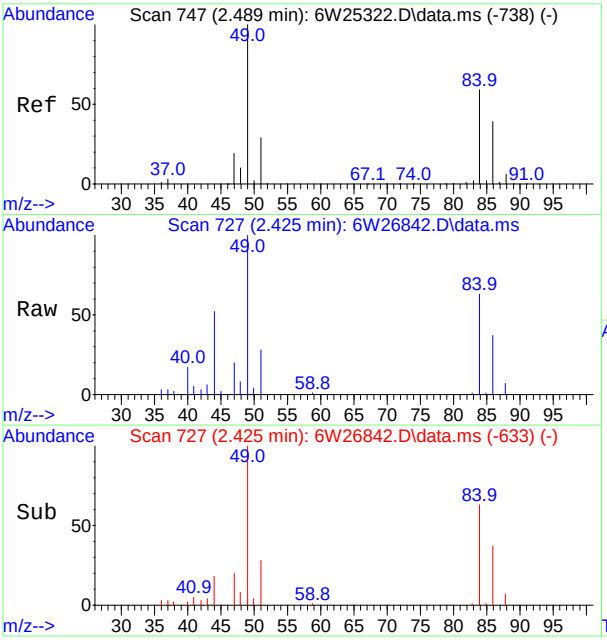




#28
ETHANOL
Concen: 4.30 PPBV
RT: 2.010 min Scan# 598
Delta R.T. 0.003 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 45 Resp: 14645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 39.2 | 34.1 | 51.1 |
| 42 | 8.1 | 6.1 | 9.1 |

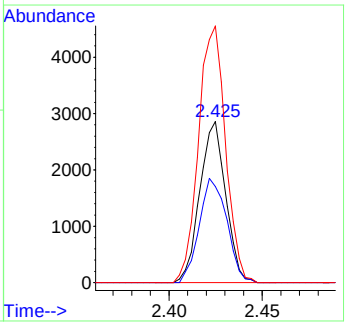


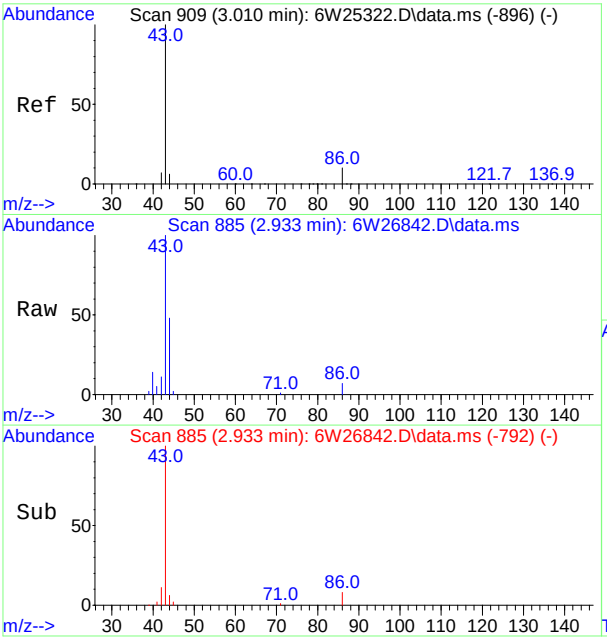



#31
METHYLENE CHLORIDE
Concen: 0.49 PPBV
RT: 2.425 min Scan# 727
Delta R.T. 0.003 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 84 Resp: 2762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 69.0 | 50.9 | 76.3 |
| 49 | 166.1 | 78.6 | 118.0# |

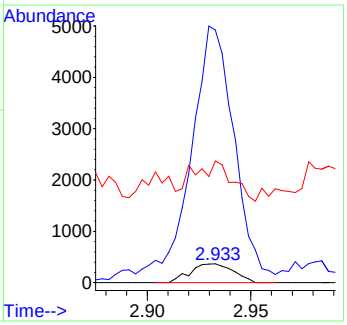


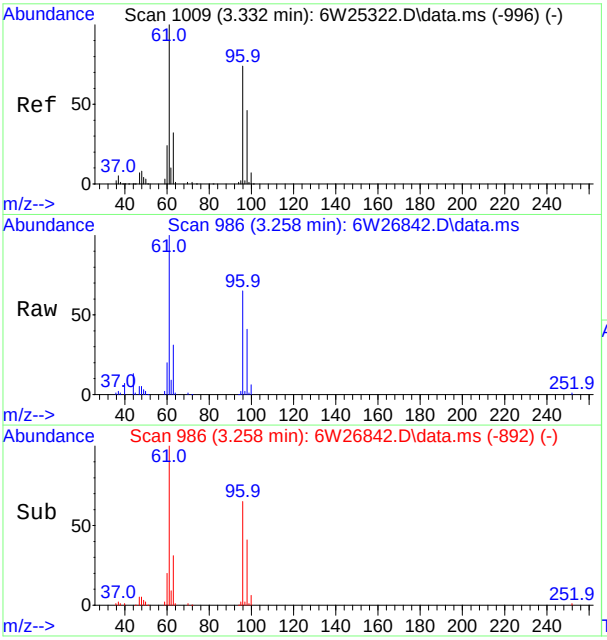




#39
VINYL ACETATE
Concen: 0.36 PPBV
RT: 2.933 min Scan# 885
Delta R.T. 0.000 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 86 Resp: 533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 86 | 100 | | |
| 43 | 1414.4 | 626.3 | 939.5# |
| 44 | 146.9 | 34.5 | 51.7# |

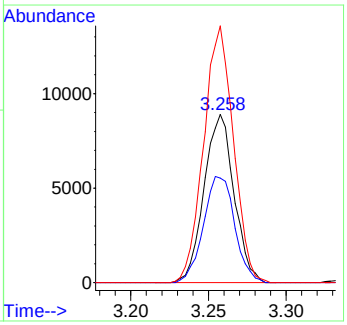


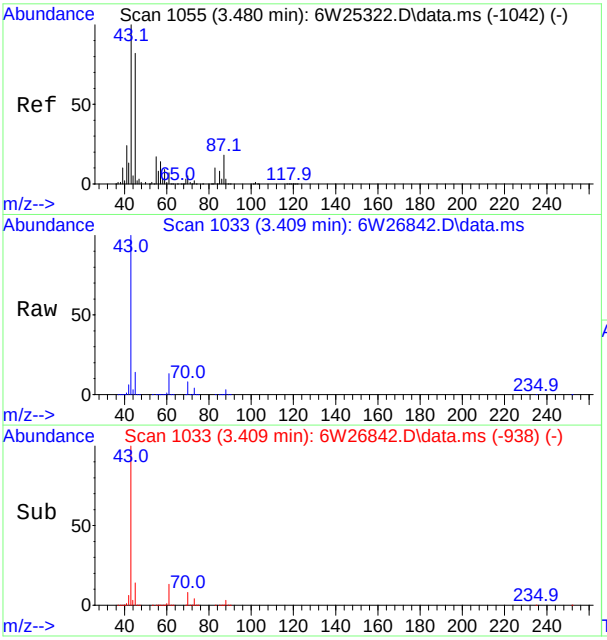



#42
CIS-1,2-DICHLOROETHENE
Concen: 1.83 PPBV
RT: 3.258 min Scan# 986
Delta R.T. 0.003 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 96 Resp: 11944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 65.8 | 51.1 | 76.7 |
| 61 | 151.6 | 93.9 | 140.9# |

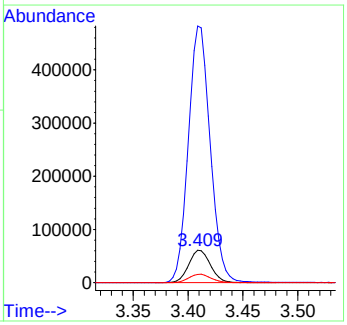


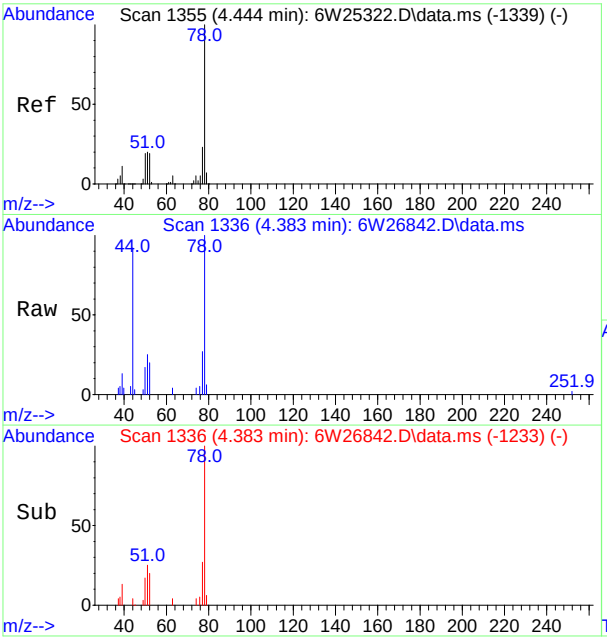




#44
ETHYL ACETATE
Concen: 35.33 PPBV
RT: 3.409 min Scan# 1033
Delta R.T. 0.007 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 61 Resp: 84085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 796.3 | 986.2 | 1479.2# |
| 88 | 26.3 | 38.8 | 58.2# |

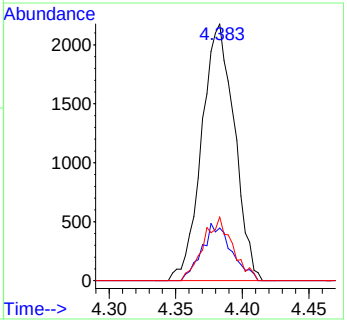


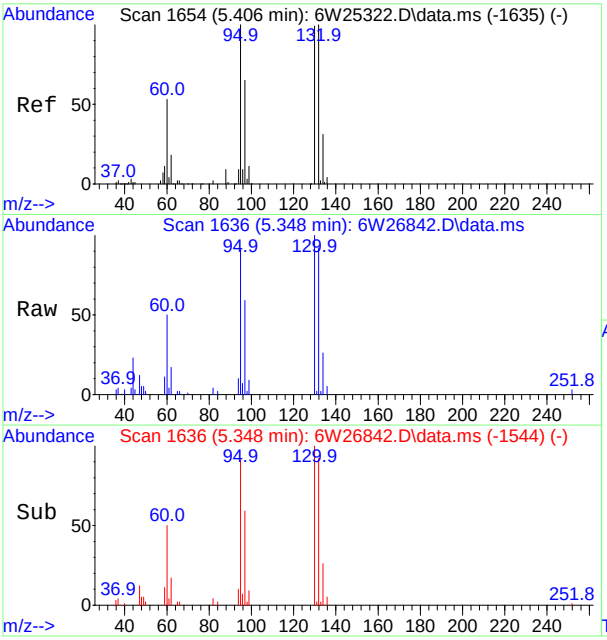



#51
BENZENE
Concen: 0.19 PPBV
RT: 4.383 min Scan# 1336
Delta R.T. 0.000 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 78 Resp: 3716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 52 | 20.2 | 0.0 | 34.0 |
| 51 | 22.2 | 0.0 | 33.5 |

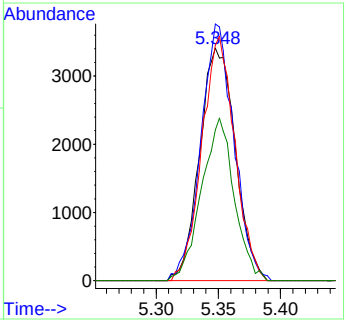


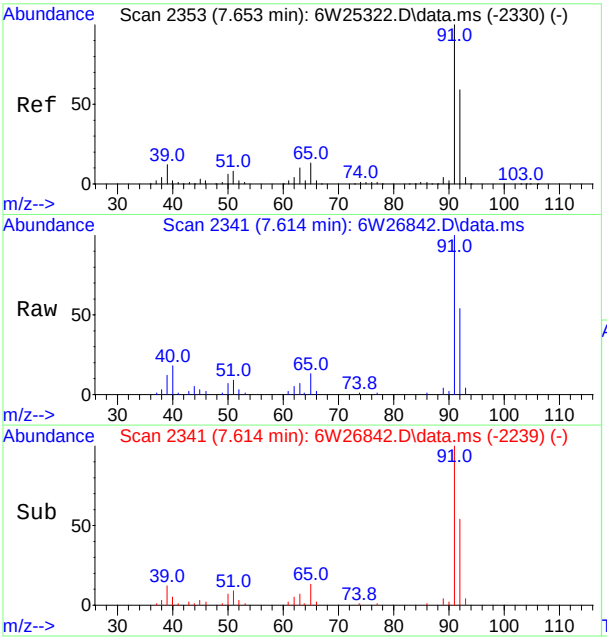




#55
TRICHLOROETHENE
Concen: 0.77 PPBV
RT: 5.348 min Scan# 1636
Delta R.T. -0.003 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 95 Resp: 6800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 102.4 | 83.2 | 124.8 |
| 132 | 97.2 | 79.8 | 119.6 |
| 97 | 64.2 | 51.3 | 76.9 |

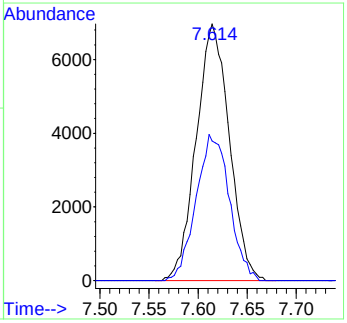





#66
TOLUENE
Concen: 0.65 PPBV
RT: 7.614 min Scan# 2341
Delta R.T. -0.003 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 91 Resp: 16339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.2 | 38.9 | 78.9 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26830.D
Acq On : 3 Nov 2022 2:39 pm
Operator : thomash
Sample : mb
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 04 15:20:12 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

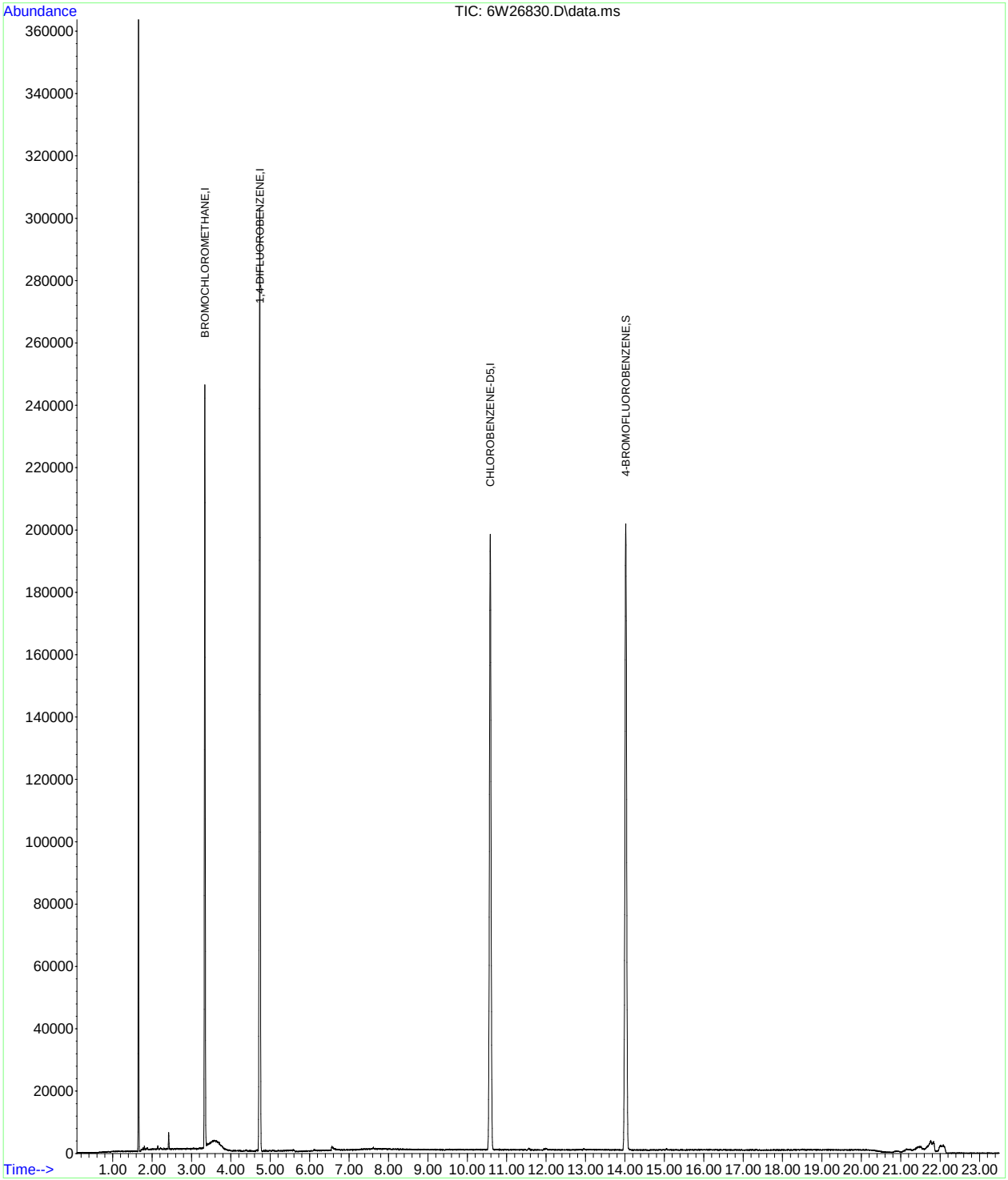
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 44863 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.734 | 114 | 225395 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 177281 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.019 | 95 | 121077 | 9.78 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26830.D
Acq On : 3 Nov 2022 2:39 pm
Operator : thomash
Sample : mb
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 04 15:20:12 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26867.D
Acq On : 4 Nov 2022 11:58 am
Operator : thomash
Sample : mb
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 06 15:44:45 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

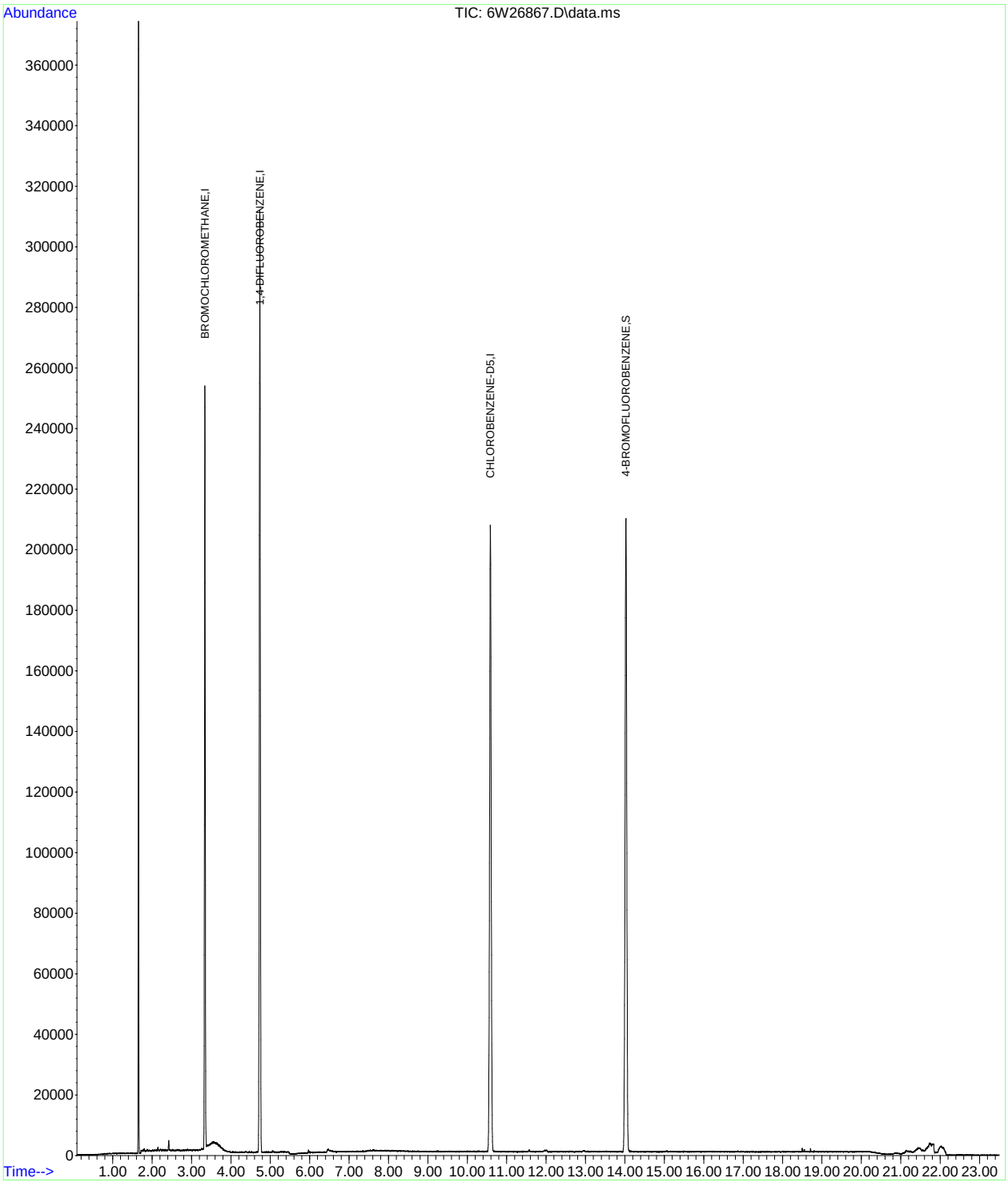
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.341 | 128 | 46239 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.733 | 114 | 231869 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 184569 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.022 | 95 | 126290 | 9.80 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26867.D
Acq On : 4 Nov 2022 11:58 am
Operator : thomash
Sample : mb
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 06 15:44:45 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25444.D
Acq On : 11 Aug 2022 12:47 pm
Operator : thomash
Sample : mb
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 11 14:27:26 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

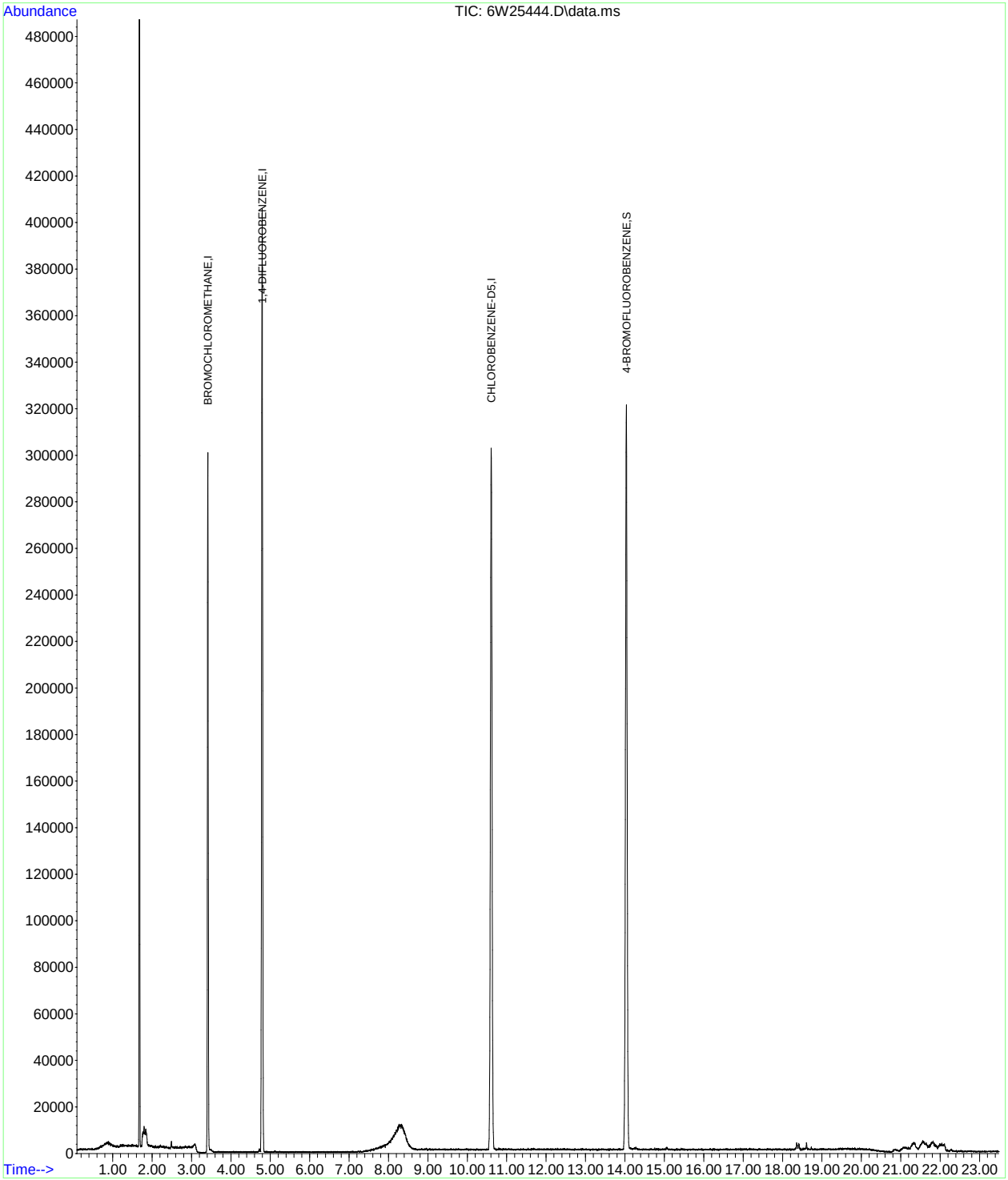
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.415 | 128 | 62033 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.794 | 114 | 317377 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.605 | 117 | 278641 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.038 | 95 | 184664 | 9.45 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25444.D
Acq On : 11 Aug 2022 12:47 pm
Operator : thomash
Sample : mb
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 11 14:27:26 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61615.D
Acq On : 27 Sep 2022 10:49 am
Operator : thomash
Sample : mb
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 12:24:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

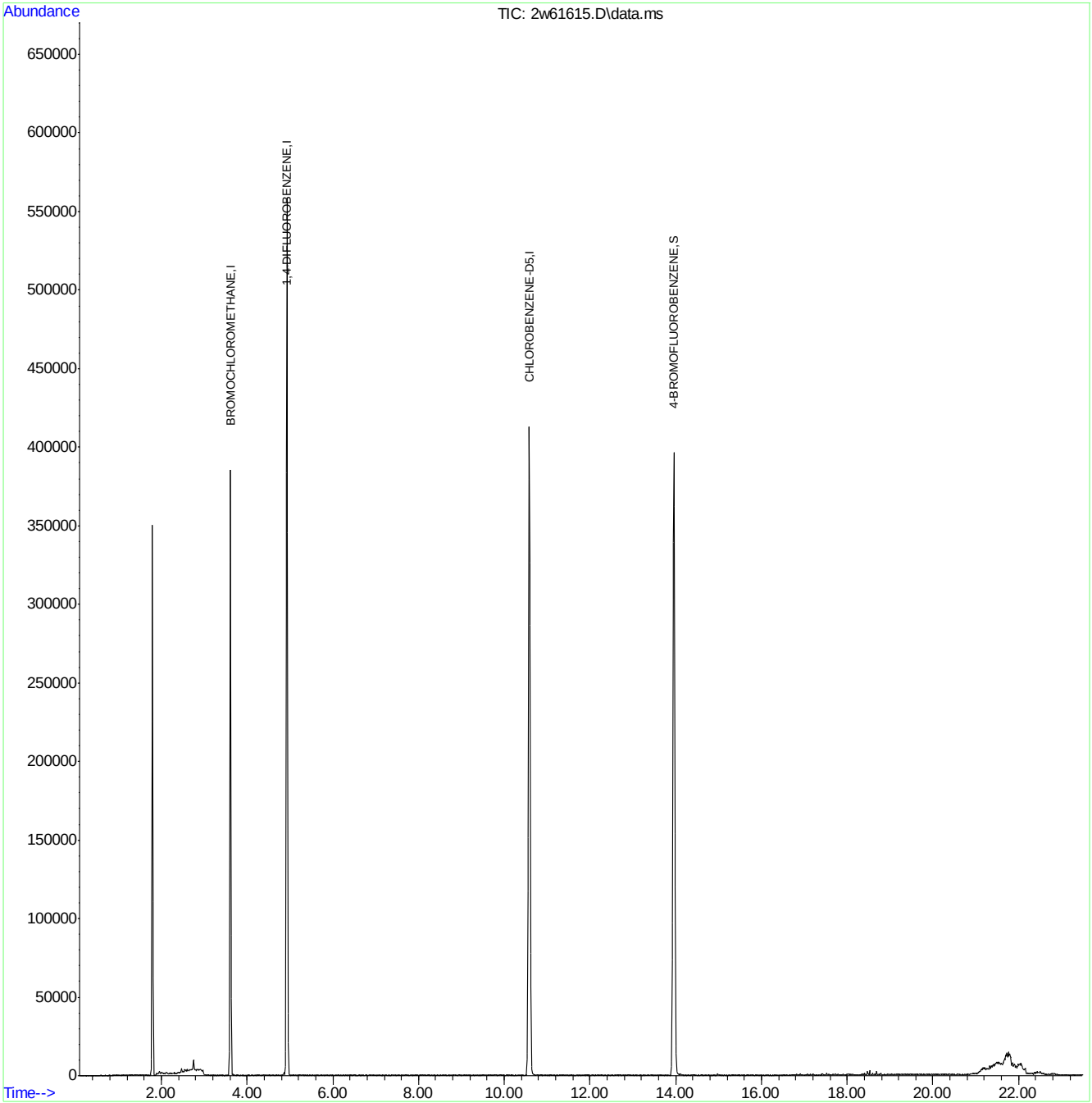
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.612 | 128 | 77815 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 428161 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 371065 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 237014 | 9.59 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61615.D
Acq On : 27 Sep 2022 10:49 am
Operator : thomash
Sample : mb
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 12:24:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




M2W2709.M Tue Sep 27 14:15:37 2022 GCMS2W Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/07/22 15:11

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26824.D
Acq On : 3 Nov 2022 10:14 am
Operator : thomash
Sample : bs
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:15:01 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 45781 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.734 | 114 | 229465 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 188055 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.023 | 95 | 132154 | 10.06 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 32453m | 8.25 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.708 | 67 | 14675 | 8.23 | PPBV | | 97 |
| 5) CHLOROTRIFLUOROETHENE | 1.718 | 116 | 73588 | 8.54 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.730 | 85 | 170322 | 11.90 | PPBV | # | 94 |
| 7) PROPYLENE | 1.714 | 41 | 45383 | 7.74 | PPBV | | 96 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 125105 | 9.54 | PPBV | # | 89 |
| 9) FREON 114 | 1.798 | 85 | 152679 | 10.14 | PPBV | | 97 |
| 10) CHLOROMETHANE | 1.772 | 52 | 20030 | 9.69 | PPBV | | 95 |
| 11) VINYL CHLORIDE | 1.830 | 62 | 64728 | 10.32 | PPBV | | 98 |
| 12) 1,3-BUTADIENE | 1.866 | 54 | 52397 | 10.22 | PPBV | # | 76 |
| 13) N-BUTANE | 1.878 | 43 | 105398 | 9.12 | PPBV | # | 92 |
| 14) BROMOMETHANE | 1.933 | 94 | 54026 | 11.14 | PPBV | | 99 |
| 15) CHLOROETHANE | 1.978 | 64 | 33508 | 11.16 | PPBV | | 97 |
| 16) DICHLOROFLUOROMETHANE | 2.004 | 67 | 133222 | 10.45 | PPBV | # | 96 |
| 17) ACETONITRILE | 2.065 | 41 | 67541 | 10.03 | PPBV | | 97 |
| 18) ACROLEIN | 2.100 | 56 | 31953 | 11.47 | PPBV | | 100 |
| 19) FREON 123 | 2.116 | 83 | 130702 | 10.81 | PPBV | | 96 |
| 20) FREON 123A | 2.132 | 117 | 76515 | 10.50 | PPBV | | 85 |
| 21) TRICHLOROFLUOROMETHANE | 2.190 | 101 | 148520 | 9.95 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.206 | 45 | 138301 | 9.18 | PPBV | # | 95 |
| 23) ACETONE | 2.139 | 58 | 34733 | 10.25 | PPBV | # | 49 |
| 24) PENTANE | 2.300 | 42 | 76962 | 9.58 | PPBV | # | 93 |
| 25) IODOMETHANE | 2.357 | 142 | 153655 | 10.68 | PPBV | | 88 |
| 26) 1,1-DICHLOROETHYLENE | 2.383 | 96 | 56980 | 10.04 | PPBV | # | 60 |
| 27) CARBON DISULFIDE | 2.521 | 76 | 177919 | 9.90 | PPBV | # | 91 |
| 28) ETHANOL | 2.007 | 45 | 32893 | 9.46 | PPBV | # | 96 |
| 29) BROMOETHENE | 2.071 | 106 | 55969 | 11.01 | PPBV | # | 98 |
| 30) ACRYLONITRILE | 2.271 | 52 | 52667 | 10.37 | PPBV | | 96 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 52705 | 9.26 | PPBV | # | 51 |
| 32) 3-CHLOROPROPENE | 2.464 | 76 | 28193 | 10.18 | PPBV | # | 6 |
| 33) FREON 113 | 2.518 | 151 | 97033 | 9.64 | PPBV | | 89 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 62055 | 9.79 | PPBV | # | 80 |
| 35) TERTIARY BUTYL ALCOHOL | 2.396 | 59 | 108467 | 8.81 | PPBV | # | 87 |
| 36) METHYL TERTIARY BUTYL ... | 2.888 | 73 | 128568 | 8.15 | PPBV | # | 93 |
| 37) TETRAHYDROFURAN | 3.653 | 72 | 30706 | 10.48 | PPBV | # | 48 |
| 38) HEXANE | 3.390 | 57 | 116144 | 9.45 | PPBV | # | 78 |
| 39) VINYL ACETATE | 2.930 | 86 | 15872 | 10.45 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.853 | 63 | 116835 | 9.67 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.039 | 72 | 31587 | 10.26 | PPBV | # | 7 |
| 42) CIS-1,2-DICHLOROETHENE | 3.255 | 96 | 63495 | 9.55 | PPBV | # | 80 |
| 43) DIISOPROPYL ETHER | 3.399 | 59 | 31703 | 8.97 | PPBV | # | 46 |
| 44) ETHYL ACETATE | 3.406 | 61 | 24493 | 10.09 | PPBV | # | 45 |
| 45) METHYL ACRYLATE | 3.390 | 55 | 152178 | 10.01 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.422 | 83 | 128228 | 9.39 | PPBV | # | 93 |
| 47) 2,4-DIMETHYLPENTANE | 3.952 | 57 | 137128 | 9.87 | PPBV | # | 93 |
| 48) 1,1,1-TRICHLOROETHANE | 4.042 | 97 | 117150 | 8.73 | PPBV | # | 91 |
| 49) CARBON TETRACHLORIDE | 4.499 | 117 | 128466 | 8.93 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.865 | 62 | 93097 | 8.96 | PPBV | # | 95 |
| 51) BENZENE | 4.380 | 78 | 190864 | 9.35 | PPBV | | 81 |
| 53) CYCLOHEXANE | 4.602 | 84 | 81604 | 9.75 | PPBV | # | 73 |
| 54) 2,3-DIMETHYLPENTANE | 4.875 | 71 | 44180 | 9.69 | PPBV | # | 57 |
| 55) TRICHLOROETHENE | 5.348 | 95 | 84261 | 9.35 | PPBV | | 99 |
| 56) 1,2-DICHLOROPROPANE | 5.100 | 63 | 80579 | 9.74 | PPBV | | 99 |
| 57) DIBROMOMETHANE | 5.058 | 174 | 74436 | 8.76 | PPBV | | 89 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26824.D
Acq On : 3 Nov 2022 10:14 am
Operator : thomash
Sample : bs
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:15:01 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

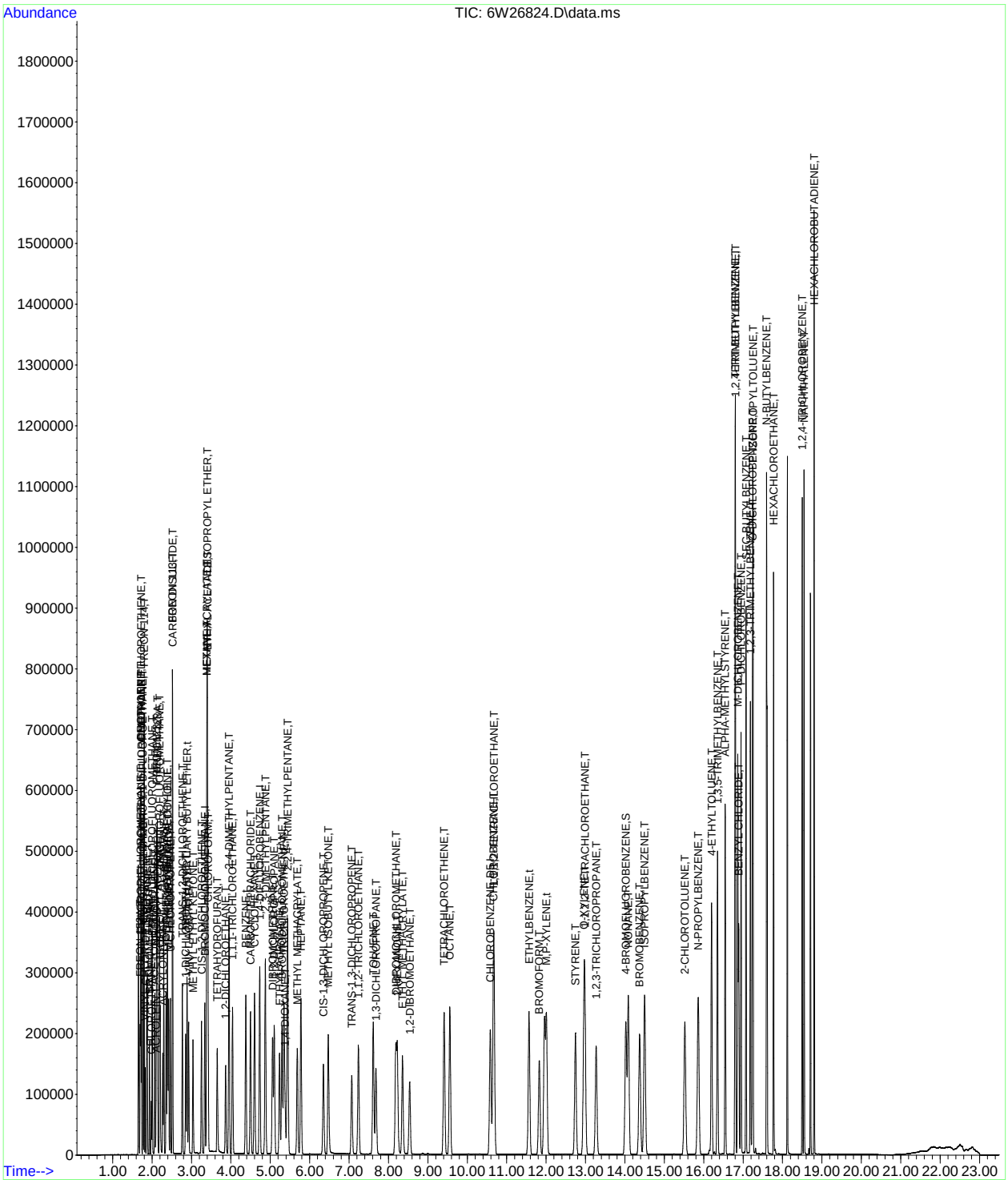
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 58) | ETHYL ACRYLATE | 5.235 | 55 | 189046 | 10.77 | PPBV | # | 97 |
| 59) | BROMODICHLOROMETHANE | 5.296 | 83 | 135989 | 8.96 | PPBV | | 99 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.441 | 57 | 375427 | 9.89 | PPBV | # | 98 |
| 61) | 1,4-DIOXANE | 5.373 | 88 | 47121 | 11.90 | PPBV | # | 74 |
| 62) | HEPTANE | 5.775 | 43 | 123410 | 8.07 | PPBV | # | 78 |
| 63) | METHYL METHACRYLATE | 5.682 | 69 | 68221 | 9.31 | PPBV | # | 59 |
| 64) | METHYL ISOBUTYL KETONE | 6.470 | 58 | 63961 | 10.31 | PPBV | # | 65 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.348 | 75 | 93764 | 8.56 | PPBV | # | 76 |
| 66) | TOLUENE | 7.614 | 91 | 207309 | 8.17 | PPBV | | 99 |
| 67) | 1,3-DICHLOROPROPANE | 7.682 | 76 | 106865 | 8.73 | PPBV | # | 98 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.068 | 75 | 83311 | 8.62 | PPBV | # | 79 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.238 | 83 | 63312 | 8.73 | PPBV | | 98 |
| 70) | 2-HEXANONE | 8.222 | 58 | 87163 | 12.07 | PPBV | # | 69 |
| 71) | ETHYL METHACRYLATE | 8.354 | 69 | 112284 | 10.39 | PPBV | # | 73 |
| 72) | TETRACHLOROETHENE | 9.412 | 164 | 80149 | 9.14 | PPBV | | 94 |
| 73) | DIBROMOCHLOROMETHANE | 8.187 | 129 | 134013 | 8.56 | PPBV | | 99 |
| 74) | 1,2-DIBROMOETHANE | 8.540 | 107 | 118289 | 8.91 | PPBV | | 99 |
| 75) | OCTANE | 9.557 | 43 | 168011 | 8.30 | PPBV | # | 78 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.675 | 131 | 92122 | 9.13 | PPBV | | 95 |
| 78) | CHLOROBENZENE | 10.663 | 112 | 171591 | 9.44 | PPBV | | 98 |
| 79) | ETHYLBENZENE | 11.566 | 91 | 277012 | 8.55 | PPBV | | 99 |
| 80) | M,P-XYLENE | 12.003 | 91 | 429971 | 17.79 | PPBV | # | 66 |
| 81) | O-XYLENE | 12.962 | 91 | 216611 | 8.95 | PPBV | | 98 |
| 82) | STYRENE | 12.746 | 104 | 168457 | 10.41 | PPBV | | 98 |
| 83) | NONANE | 14.084 | 43 | 180978 | 8.69 | PPBV | # | 77 |
| 84) | BROMOFORM | 11.823 | 173 | 121723 | 9.23 | PPBV | # | 98 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 12.984 | 83 | 171784 | 9.99 | PPBV | | 99 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.270 | 75 | 128467 | 9.55 | PPBV | | 98 |
| 88) | ISOPROPYLBENZENE | 14.498 | 105 | 317146 | 9.50 | PPBV | # | 93 |
| 89) | BROMOBENZENE | 14.373 | 77 | 157229 | 9.77 | PPBV | | 95 |
| 90) | 2-CHLOROTOLUENE | 15.521 | 91 | 221725 | 10.18 | PPBV | | 99 |
| 91) | N-PROPYLBENZENE | 15.859 | 91 | 385977 | 10.50 | PPBV | # | 96 |
| 92) | 4-ETHYLTOLUENE | 16.199 | 105 | 321510 | 10.81 | PPBV | | 100 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.350 | 105 | 267105 | 10.62 | PPBV | | 100 |
| 94) | ALPHA-METHYLSTYRENE | 16.543 | 118 | 143897 | 11.42 | PPBV | | 99 |
| 95) | TERT-BUTYLBENZENE | 16.797 | 119 | 301546 | 10.69 | PPBV | | 98 |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.804 | 105 | 280909 | 10.81 | PPBV | | 96 |
| 97) | BENZYL CHLORIDE | 16.887 | 91 | 177463 | 11.27 | PPBV | | 98 |
| 98) | M-DICHLOROBENZENE | 16.865 | 146 | 190501 | 10.55 | PPBV | | 99 |
| 99) | P-DICHLOROBENZENE | 16.945 | 146 | 191007 | 10.59 | PPBV | | 99 |
| 100) | O-DICHLOROBENZENE | 17.238 | 146 | 185805 | 10.51 | PPBV | | 99 |
| 101) | SEC-BUTYLBENZENE | 17.074 | 105 | 413233 | 10.74 | PPBV | | 99 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.183 | 105 | 275839 | 10.84 | PPBV | | 99 |
| 103) | P-ISOPROPYLTOLUENE | 17.251 | 119 | 359563 | 10.90 | PPBV | | 96 |
| 104) | N-BUTYLBENZENE | 17.595 | 91 | 343092 | 11.70 | PPBV | | 98 |
| 105) | HEXACHLOROETHANE | 17.772 | 117 | 118819 | 9.92 | PPBV | | 90 |
| 106) | HEXACHLOROBUTADIENE | 18.804 | 225 | 137095 | 10.47 | PPBV | | 100 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.498 | 180 | 170571 | 11.62 | PPBV | | 98 |
| 108) | NAPHTHALENE | 18.547 | 128 | 457473 | 12.64 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26824.D
Acq On : 3 Nov 2022 10:14 am
Operator : thomash
Sample : bs
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:15:01 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



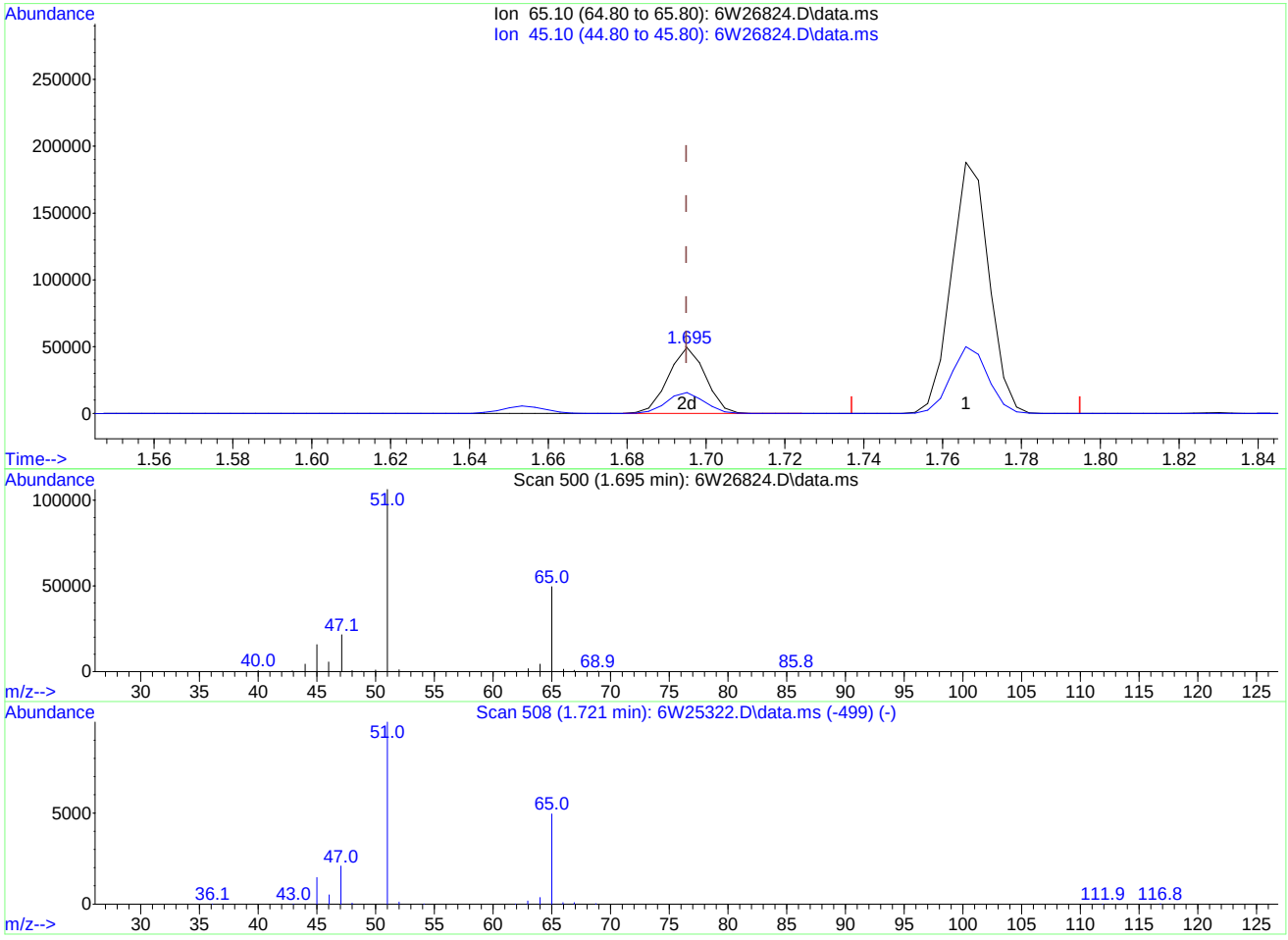
**Sample Number:** V6W1137-BS
**Lab FileID:** 6W26824.D
**Injection Time:** 11/03/22 10:14
**Method:** TO-15
**Analyst approved:** 11/04/22 15:23 William Cruser
**Supervisor approved:** 11/07/22 15:11 Kanya Veerawat

| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.70 | Missed peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26824.D
Acq On : 3 Nov 2022 10:14 am
Operator : thomash
Sample : bs
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 03 10:39:21 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26824.D\data.ms

(3) FREON 152A (T)

1.695min (+0.000) 8.25PPBV m

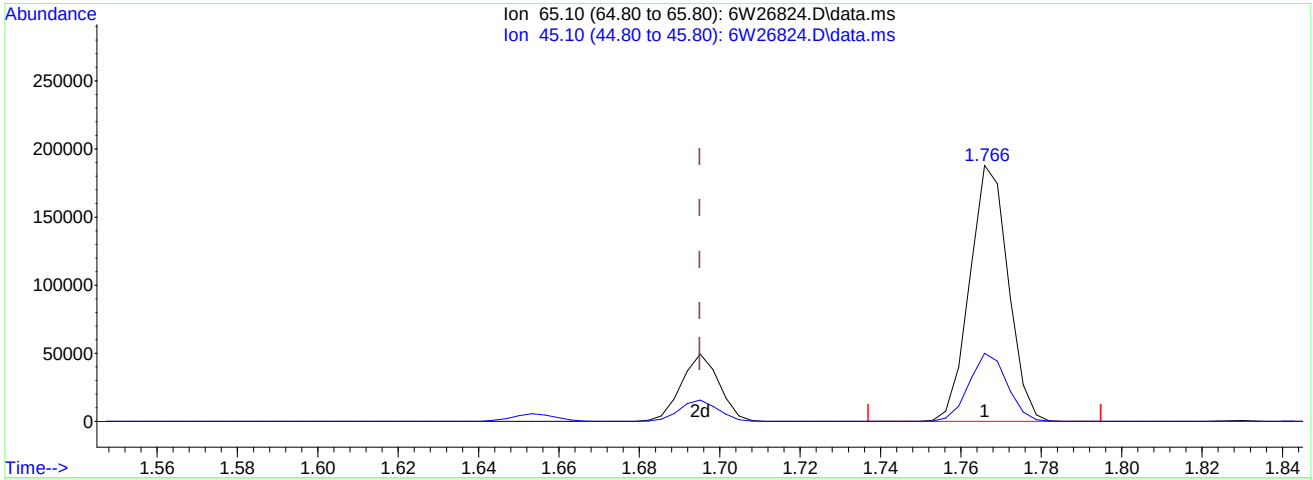
response 32453

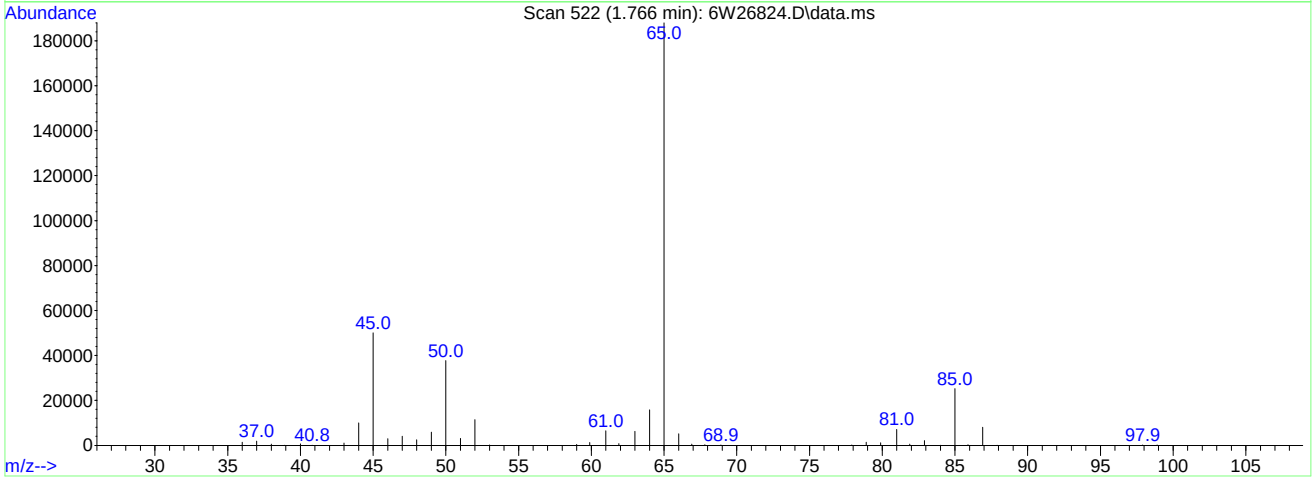
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 22.90 | 101.59# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W26824.D
Acq On : 3 Nov 2022 10:14 am
Operator : thomash
Sample : bs
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 15:58:08 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26824.D\data.ms

(3) FREON 152A (T)

1.766min (+0.071) 31.79PPBV

response 125105

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 22.90 | 26.35 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/07/22 15:11

Data Path : C:\msdchem\1\data\
Data File : 6W26825.D
Acq On : 3 Nov 2022 10:45 am
Operator : thomash
Sample : bsd
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:16:20 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.341 | 128 | 46044 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.733 | 114 | 228615 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 186065 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.026 | 95 | 132310 | 10.18 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 33216m | 8.39 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.708 | 67 | 14949 | 8.33 | PPBV | | 97 |
| 5) CHLOROTRIFLUOROETHENE | 1.717 | 116 | 75776 | 8.74 | PPBV | # | 99 |
| 6) DICHLORODIFLUOROMETHANE | 1.734 | 85 | 173290 | 12.04 | PPBV | # | 93 |
| 7) PROPYLENE | 1.717 | 41 | 46448 | 7.87 | PPBV | | 97 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.769 | 65 | 127408 | 9.66 | PPBV | # | 89 |
| 9) FREON 114 | 1.801 | 85 | 155582 | 10.27 | PPBV | | 97 |
| 10) CHLOROMETHANE | 1.772 | 52 | 20087 | 9.66 | PPBV | | 93 |
| 11) VINYL CHLORIDE | 1.830 | 62 | 66209 | 10.50 | PPBV | | 98 |
| 12) 1,3-BUTADIENE | 1.865 | 54 | 54325 | 10.53 | PPBV | # | 78 |
| 13) N-BUTANE | 1.878 | 43 | 107395 | 9.24 | PPBV | # | 92 |
| 14) BROMOMETHANE | 1.936 | 94 | 54279 | 11.13 | PPBV | | 100 |
| 15) CHLOROETHANE | 1.981 | 64 | 34006 | 11.26 | PPBV | | 96 |
| 16) DICHLOROFLUOROMETHANE | 2.004 | 67 | 136165 | 10.62 | PPBV | # | 96 |
| 17) ACETONITRILE | 2.068 | 41 | 69412 | 10.25 | PPBV | | 98 |
| 18) ACROLEIN | 2.103 | 56 | 32920 | 11.75 | PPBV | | 100 |
| 19) FREON 123 | 2.116 | 83 | 133907 | 11.01 | PPBV | | 97 |
| 20) FREON 123A | 2.132 | 117 | 78998 | 10.77 | PPBV | | 87 |
| 21) TRICHLOROFLUOROMETHANE | 2.193 | 101 | 150488 | 10.02 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.206 | 45 | 143973 | 9.51 | PPBV | # | 96 |
| 23) ACETONE | 2.139 | 58 | 35176 | 10.32 | PPBV | # | 49 |
| 24) PENTANE | 2.299 | 42 | 77303 | 9.57 | PPBV | # | 95 |
| 25) IODOMETHANE | 2.357 | 142 | 157077 | 10.85 | PPBV | | 88 |
| 26) 1,1-DICHLOROETHYLENE | 2.386 | 96 | 58048 | 10.17 | PPBV | # | 60 |
| 27) CARBON DISULFIDE | 2.521 | 76 | 180249 | 9.97 | PPBV | # | 91 |
| 28) ETHANOL | 2.007 | 45 | 34132 | 9.76 | PPBV | | 97 |
| 29) BROMOETHENE | 2.074 | 106 | 56221 | 11.00 | PPBV | # | 99 |
| 30) ACRYLONITRILE | 2.274 | 52 | 53411 | 10.46 | PPBV | | 97 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 54219 | 9.47 | PPBV | # | 56 |
| 32) 3-CHLOROPROPENE | 2.463 | 76 | 28782 | 10.33 | PPBV | # | 6 |
| 33) FREON 113 | 2.521 | 151 | 98600 | 9.74 | PPBV | | 88 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.772 | 96 | 63473 | 9.96 | PPBV | # | 80 |
| 35) TERTIARY BUTYL ALCOHOL | 2.396 | 59 | 112444 | 9.08 | PPBV | # | 88 |
| 36) METHYL TERTIARY BUTYL ... | 2.888 | 73 | 132947 | 8.38 | PPBV | # | 93 |
| 37) TETRAHYDROFURAN | 3.656 | 72 | 31351 | 10.64 | PPBV | # | 46 |
| 38) HEXANE | 3.393 | 57 | 118476 | 9.58 | PPBV | # | 78 |
| 39) VINYL ACETATE | 2.933 | 86 | 16439 | 10.76 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.852 | 63 | 118607 | 9.76 | PPBV | | 98 |
| 41) METHYL ETHYL KETONE | 3.039 | 72 | 32160 | 10.38 | PPBV | # | 4 |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 65144 | 9.74 | PPBV | # | 80 |
| 43) DIISOPROPYL ETHER | 3.399 | 59 | 32911 | 9.26 | PPBV | # | 48 |
| 44) ETHYL ACETATE | 3.409 | 61 | 25316 | 10.37 | PPBV | # | 45 |
| 45) METHYL ACRYLATE | 3.393 | 55 | 156892 | 10.26 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.422 | 83 | 131064 | 9.55 | PPBV | # | 94 |
| 47) 2,4-DIMETHYLPENTANE | 3.955 | 57 | 140305 | 10.04 | PPBV | # | 94 |
| 48) 1,1,1-TRICHLOROETHANE | 4.042 | 97 | 119399 | 8.85 | PPBV | # | 91 |
| 49) CARBON TETRACHLORIDE | 4.499 | 117 | 131670 | 9.10 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.868 | 62 | 95041 | 9.10 | PPBV | # | 95 |
| 51) BENZENE | 4.380 | 78 | 193835 | 9.44 | PPBV | | 81 |
| 53) CYCLOHEXANE | 4.602 | 84 | 83201 | 9.98 | PPBV | # | 72 |
| 54) 2,3-DIMETHYLPENTANE | 4.878 | 71 | 44752 | 9.86 | PPBV | # | 55 |
| 55) TRICHLOROETHENE | 5.351 | 95 | 85815 | 9.56 | PPBV | | 99 |
| 56) 1,2-DICHLOROPROPANE | 5.103 | 63 | 82162 | 9.97 | PPBV | | 99 |
| 57) DIBROMOMETHANE | 5.061 | 174 | 75718 | 8.95 | PPBV | | 88 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26825.D
Acq On : 3 Nov 2022 10:45 am
Operator : thomash
Sample : bsd
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:16:20 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

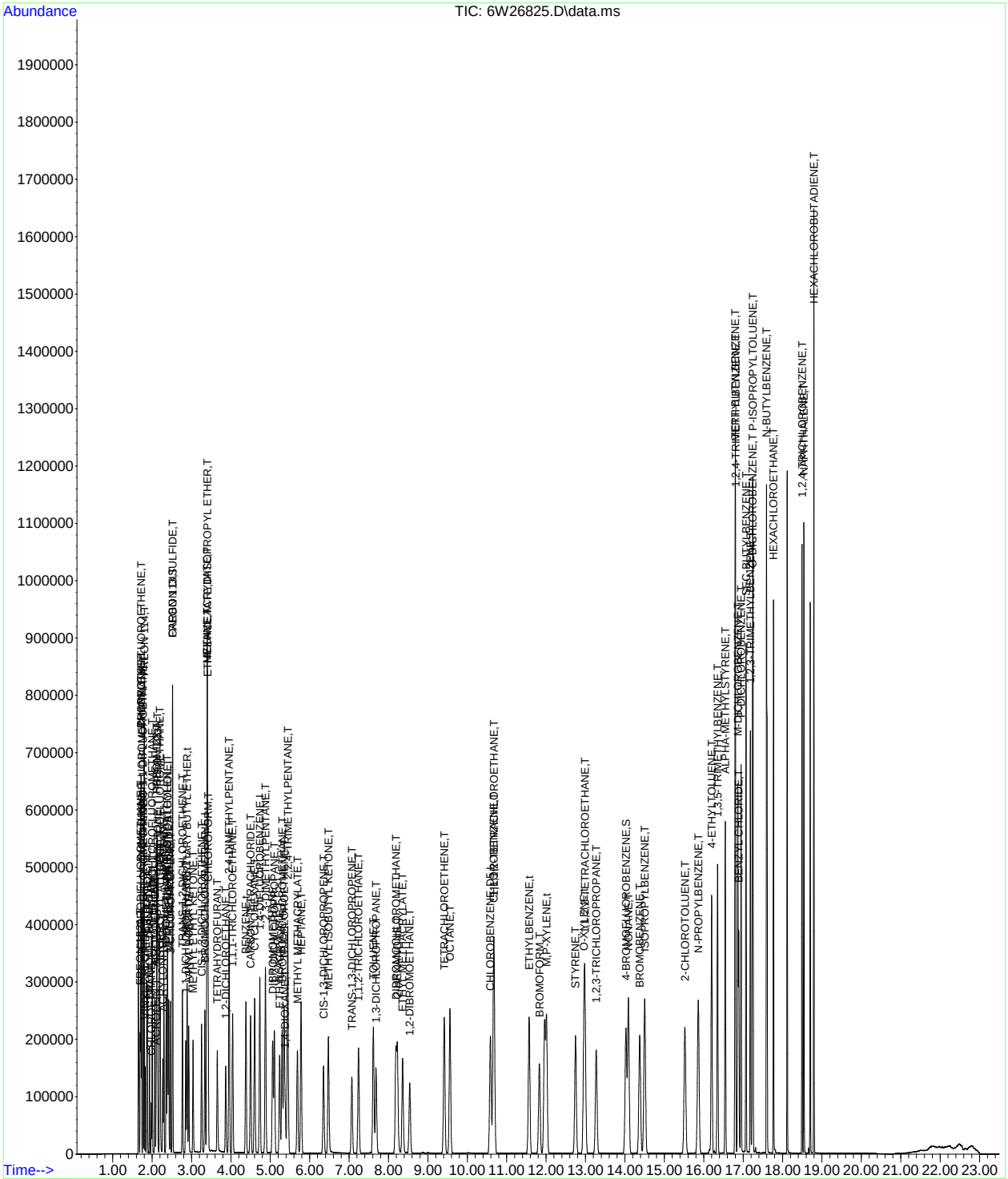
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.238 | 55 | 194204 | 11.11 | PPBV | # | 97 |
| 59) BROMODICHLOROMETHANE | 5.299 | 83 | 139846 | 9.25 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.444 | 57 | 384577 | 10.17 | PPBV | # | 98 |
| 61) 1,4-DIOXANE | 5.376 | 88 | 48379 | 12.26 | PPBV | # | 75 |
| 62) HEPTANE | 5.782 | 43 | 126400 | 8.30 | PPBV | # | 77 |
| 63) METHYL METHACRYLATE | 5.688 | 69 | 69893 | 9.57 | PPBV | # | 58 |
| 64) METHYL ISOBUTYL KETONE | 6.473 | 58 | 66769 | 10.81 | PPBV | # | 67 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.351 | 75 | 96570 | 8.84 | PPBV | # | 76 |
| 66) TOLUENE | 7.614 | 91 | 213416 | 8.44 | PPBV | | 98 |
| 67) 1,3-DICHLOROPROPANE | 7.685 | 76 | 109251 | 8.96 | PPBV | # | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.071 | 75 | 86888 | 9.03 | PPBV | # | 79 |
| 69) 1,1,2-TRICHLOROETHANE | 7.238 | 83 | 64932 | 8.99 | PPBV | | 99 |
| 70) 2-HEXANONE | 8.225 | 58 | 90346 | 12.55 | PPBV | # | 71 |
| 71) ETHYL METHACRYLATE | 8.357 | 69 | 115476 | 10.73 | PPBV | # | 74 |
| 72) TETRACHLOROETHENE | 9.415 | 164 | 81260 | 9.30 | PPBV | | 93 |
| 73) DIBROMOCHLOROMETHANE | 8.187 | 129 | 136536 | 8.75 | PPBV | | 98 |
| 74) 1,2-DIBROMOETHANE | 8.537 | 107 | 121318 | 9.17 | PPBV | | 99 |
| 75) OCTANE | 9.560 | 43 | 172896 | 8.58 | PPBV | # | 78 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.679 | 131 | 93527 | 9.37 | PPBV | | 95 |
| 78) CHLOROBENZENE | 10.666 | 112 | 177544 | 9.88 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.569 | 91 | 285116 | 8.90 | PPBV | | 99 |
| 80) M,P-XYLENE | 12.006 | 91 | 438435 | 18.33 | PPBV | # | 67 |
| 81) O-XYLENE | 12.958 | 91 | 224408 | 9.37 | PPBV | | 96 |
| 82) STYRENE | 12.746 | 104 | 172544 | 10.78 | PPBV | | 97 |
| 83) NONANE | 14.090 | 43 | 185495 | 9.00 | PPBV | # | 77 |
| 84) BROMOFORM | 11.830 | 173 | 124184 | 9.51 | PPBV | # | 98 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.987 | 83 | 174386 | 10.25 | PPBV | | 98 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.270 | 75 | 130786 | 9.83 | PPBV | | 99 |
| 88) ISOPROPYLBENZENE | 14.502 | 105 | 326034 | 9.88 | PPBV | # | 94 |
| 89) BROMOBENZENE | 14.376 | 77 | 160502 | 10.08 | PPBV | | 95 |
| 90) 2-CHLOROTOLUENE | 15.524 | 91 | 227471 | 10.55 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.862 | 91 | 396215 | 10.89 | PPBV | # | 96 |
| 92) 4-ETHYLTOLUENE | 16.202 | 105 | 331969 | 11.28 | PPBV | | 100 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.350 | 105 | 273657 | 11.00 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.546 | 118 | 147551 | 11.84 | PPBV | | 98 |
| 95) TERT-BUTYLBENZENE | 16.797 | 119 | 305573 | 10.94 | PPBV | | 98 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.807 | 105 | 285821 | 11.12 | PPBV | | 96 |
| 97) BENZYL CHLORIDE | 16.887 | 91 | 183899 | 11.80 | PPBV | | 98 |
| 98) M-DICHLOROBENZENE | 16.865 | 146 | 193831 | 10.84 | PPBV | | 99 |
| 99) P-DICHLOROBENZENE | 16.948 | 146 | 194887 | 10.92 | PPBV | | 99 |
| 100) O-DICHLOROBENZENE | 17.238 | 146 | 190795 | 10.91 | PPBV | | 99 |
| 101) SEC-BUTYLBENZENE | 17.074 | 105 | 425347 | 11.17 | PPBV | | 99 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.183 | 105 | 280585 | 11.15 | PPBV | | 99 |
| 103) P-ISOPROPYLTOLUENE | 17.247 | 119 | 368422 | 11.29 | PPBV | | 96 |
| 104) N-BUTYLBENZENE | 17.591 | 91 | 351484 | 12.12 | PPBV | | 98 |
| 105) HEXACHLOROETHANE | 17.768 | 117 | 121827m | 10.28 | PPBV | | |
| 106) HEXACHLOROBUTADIENE | 18.794 | 225 | 141949 | 10.96 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.495 | 180 | 174827 | 12.04 | PPBV | | 99 |
| 108) NAPHTHALENE | 18.540 | 128 | 464467 | 12.97 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26825.D
Acq On : 3 Nov 2022 10:45 am
Operator : thomash
Sample : bsd
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:16:20 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



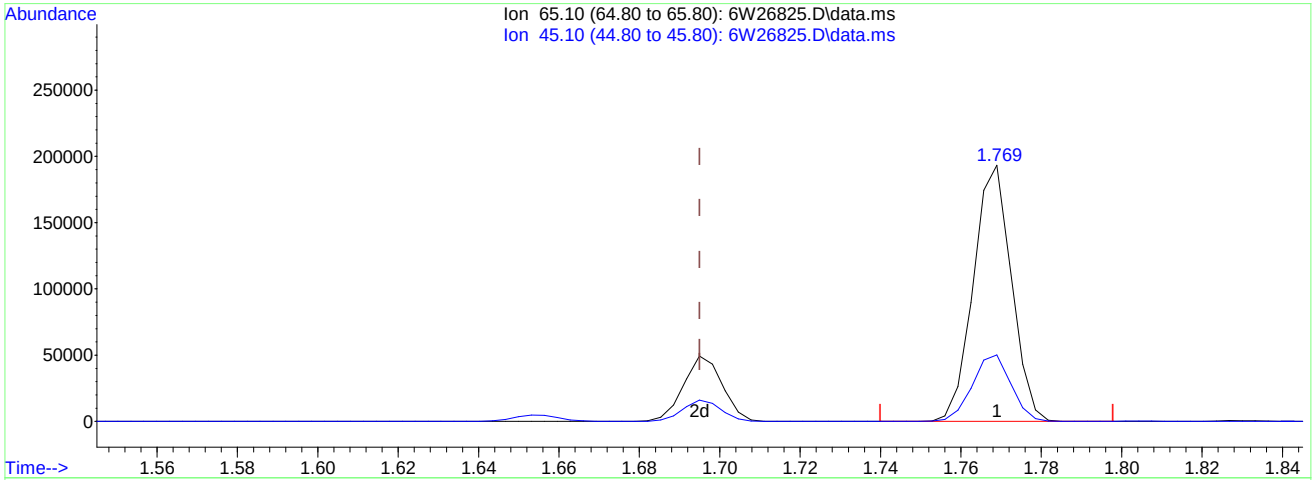
**Sample Number:** V6W1137-BSD
**Lab FileID:** 6W26825.D
**Injection Time:** 11/03/22 10:45
**Method:** TO-15
**Analyst approved:** 11/04/22 15:23 William Cruser
**Supervisor approved:** 11/07/22 15:11 Kanya Veerawat

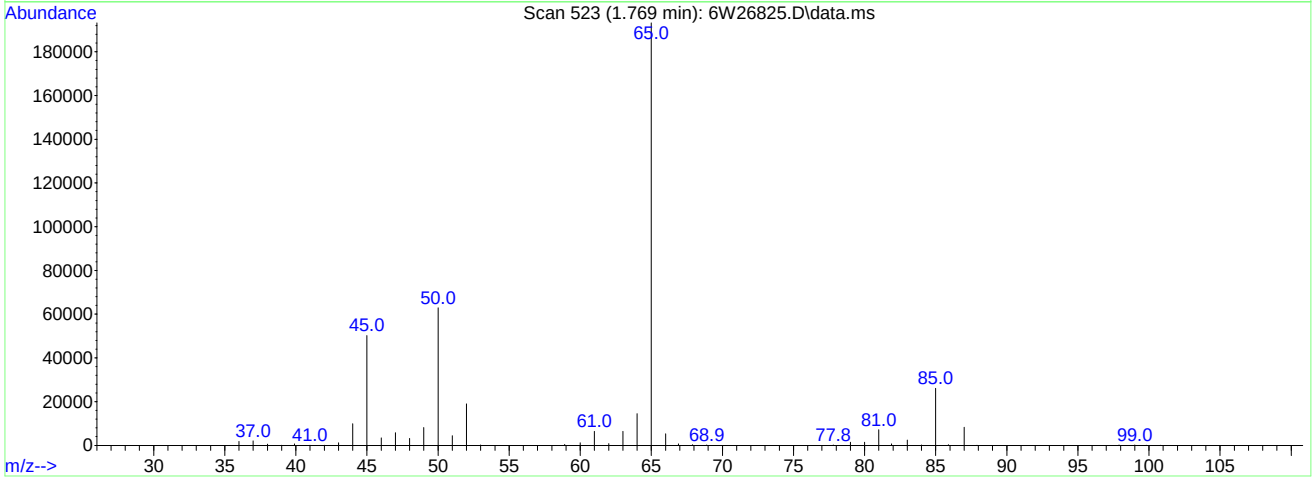
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.69 | Missed peak |
| Hexachloroethane | 67-72-1 | | 17.77 | Missed peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26825.D
Acq On : 3 Nov 2022 10:45 am
Operator : thomash
Sample : bsd
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 03 11:19:27 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26825.D\data.ms

(3) FREON 152A (T)

1.769min (+0.074) 32.18PPBV

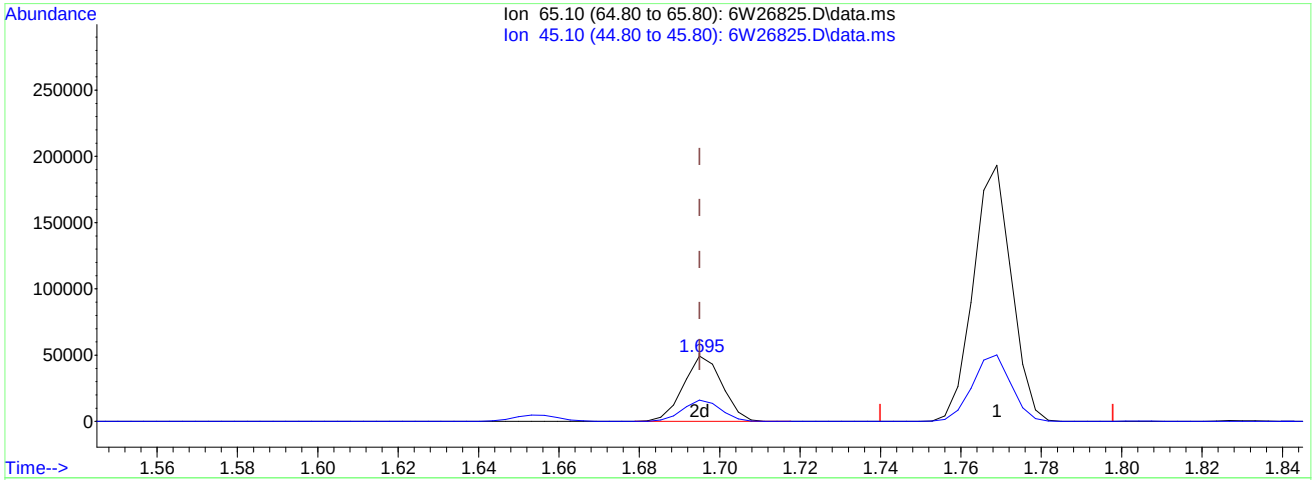
response 127376

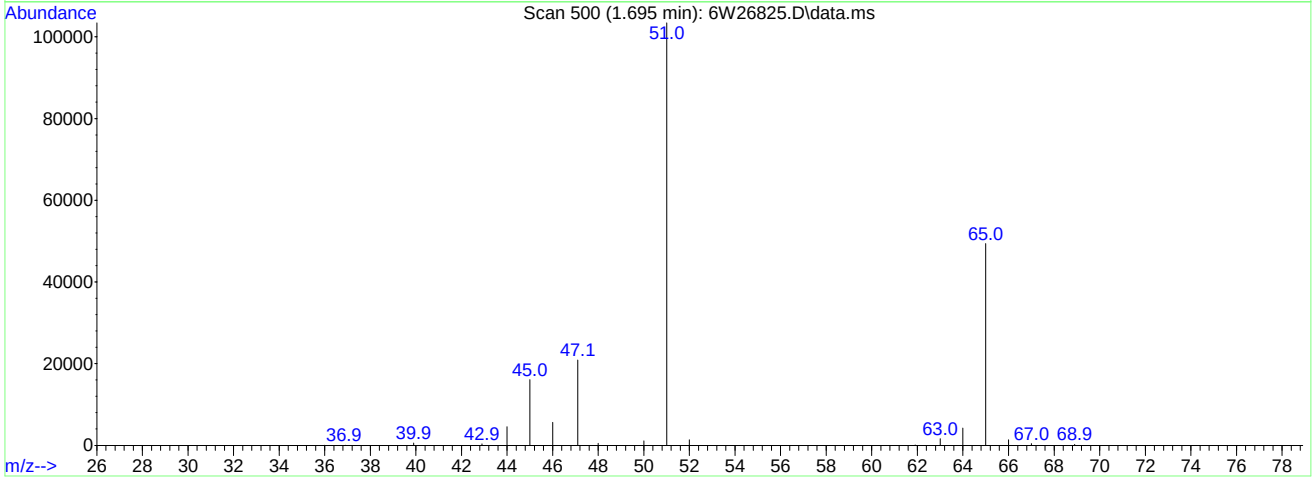
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 22.90 | 26.36 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26825.D
Acq On : 3 Nov 2022 10:45 am
Operator : thomash
Sample : bsd
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 03 11:19:27 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26825.D\data.ms

(3) FREON 152A (T)

1.695min (-0.000) 8.39PPBV m

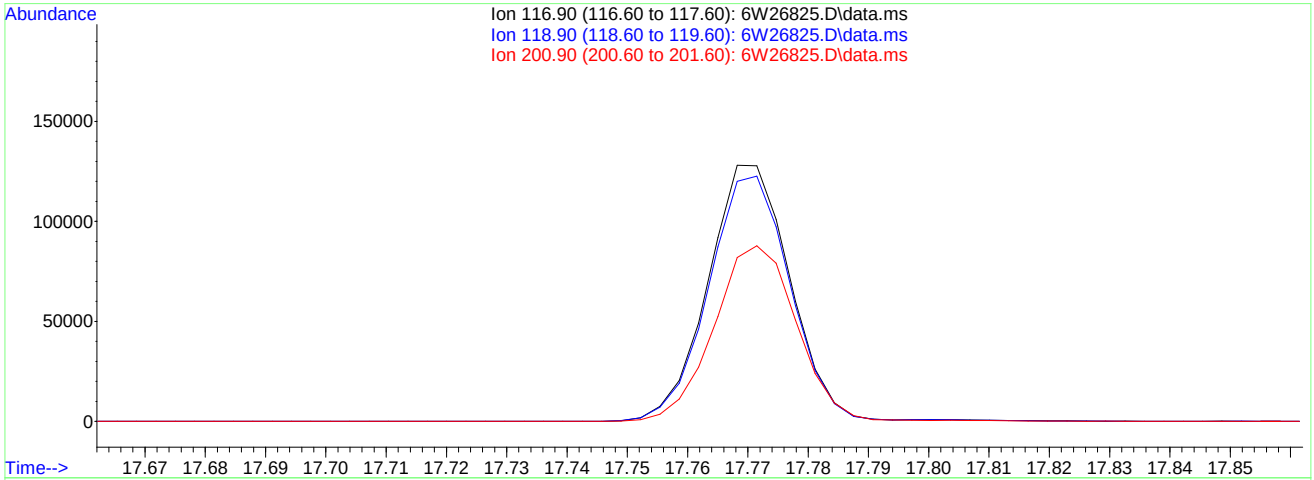
response 33216

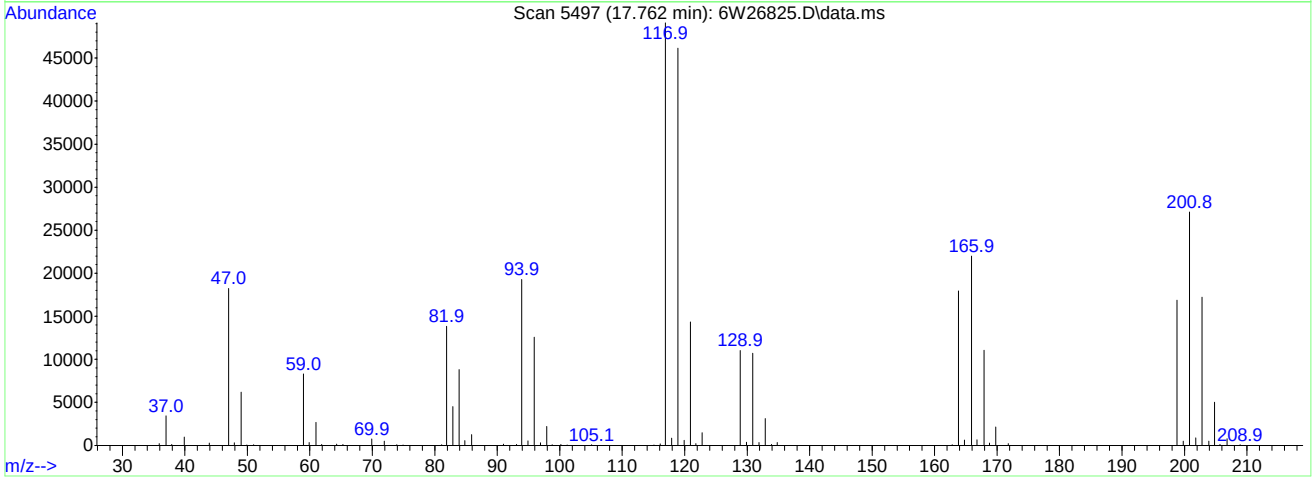
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 22.90 | 101.07# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26825.D
Acq On : 3 Nov 2022 10:45 am
Operator : thomash
Sample : bsd
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 03 11:19:27 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26825.D\data.ms

(105) HEXACHLOROETHANE (T)

17.762min (-17.762) 0.00PPBV

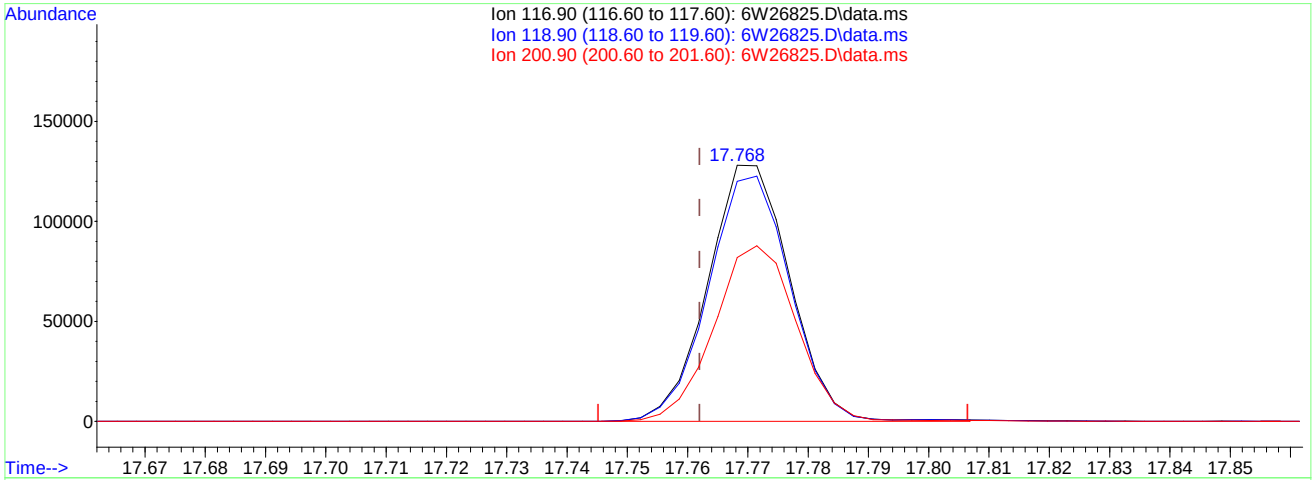
response 0

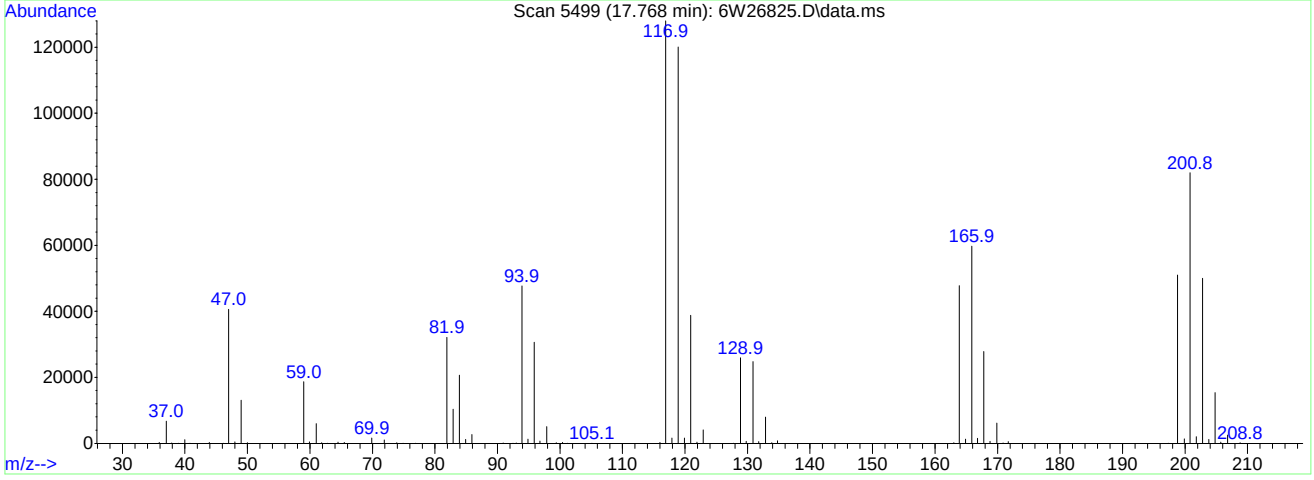
| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 0.00 |
| 118.90 | 95.50 | 0.00# |
| 200.90 | 87.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26825.D
Acq On : 3 Nov 2022 10:45 am
Operator : thomash
Sample : bsd
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:16:20 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26825.D\data.ms

(105) HEXACHLOROETHANE (T)

17.768min (+0.006) 10.28PPBV m

response 121827

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 95.50 | 0.00# |
| 200.90 | 87.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/08/22 16:17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26864.D
Acq On : 4 Nov 2022 10:15 am
Operator : thomash
Sample : bs
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 16:01:49 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 47373 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.733 | 114 | 236723 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 191883 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.026 | 95 | 136001 | 10.15 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 34256m | 8.41 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.708 | 67 | 15537 | 8.42 | PPBV | | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.717 | 116 | 79227 | 8.88 | PPBV | # | 99 |
| 6) DICHLORODIFLUOROMETHANE | 1.798 | 85 | 147805 | 9.98 | PPBV | | 99 |
| 7) PROPYLENE | 1.717 | 41 | 48268 | 7.95 | PPBV | | 96 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.769 | 65 | 133168 | 9.81 | PPBV | # | 90 |
| 9) FREON 114 | 1.801 | 85 | 164132 | 10.53 | PPBV | | 97 |
| 10) CHLOROMETHANE | 1.772 | 52 | 21114 | 9.87 | PPBV | | 95 |
| 11) VINYL CHLORIDE | 1.830 | 62 | 69065 | 10.64 | PPBV | | 98 |
| 12) 1,3-BUTADIENE | 1.865 | 54 | 56942 | 10.73 | PPBV | # | 79 |
| 13) N-BUTANE | 1.881 | 43 | 113955 | 9.53 | PPBV | # | 91 |
| 14) BROMOMETHANE | 1.936 | 94 | 57387 | 11.43 | PPBV | | 99 |
| 15) CHLOROETHANE | 1.981 | 64 | 35545 | 11.44 | PPBV | | 96 |
| 16) DICHLOROFLUOROMETHANE | 2.004 | 67 | 142665 | 10.82 | PPBV | # | 97 |
| 17) ACETONITRILE | 2.068 | 41 | 73177 | 10.50 | PPBV | | 99 |
| 18) ACROLEIN | 2.103 | 56 | 34305 | 11.90 | PPBV | | 100 |
| 19) FREON 123 | 2.116 | 83 | 139159 | 11.13 | PPBV | | 96 |
| 20) FREON 123A | 2.132 | 117 | 82097 | 10.88 | PPBV | | 86 |
| 21) TRICHLOROFLUOROMETHANE | 2.193 | 101 | 157632 | 10.21 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.209 | 45 | 146753 | 9.42 | PPBV | # | 95 |
| 23) ACETONE | 2.139 | 58 | 36486 | 10.40 | PPBV | # | 45 |
| 24) PENTANE | 2.299 | 42 | 81644 | 9.82 | PPBV | # | 94 |
| 25) IODOMETHANE | 2.357 | 142 | 163638 | 10.99 | PPBV | | 88 |
| 26) 1,1-DICHLOROETHYLENE | 2.386 | 96 | 60825 | 10.36 | PPBV | # | 61 |
| 27) CARBON DISULFIDE | 2.521 | 76 | 189650 | 10.19 | PPBV | # | 91 |
| 28) ETHANOL | 2.007 | 45 | 35594 | 9.89 | PPBV | | 97 |
| 29) BROMOETHENE | 2.074 | 106 | 58992 | 11.21 | PPBV | # | 98 |
| 30) ACRYLONITRILE | 2.274 | 52 | 55295 | 10.52 | PPBV | | 97 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 56434 | 9.58 | PPBV | # | 55 |
| 32) 3-CHLOROPROPENE | 2.463 | 76 | 30051 | 10.48 | PPBV | # | 5 |
| 33) FREON 113 | 2.521 | 151 | 102970 | 9.89 | PPBV | | 88 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.772 | 96 | 66363 | 10.12 | PPBV | # | 81 |
| 35) TERTIARY BUTYL ALCOHOL | 2.396 | 59 | 103985 | 8.16 | PPBV | # | 76 |
| 36) METHYL TERTIARY BUTYL ... | 2.888 | 73 | 121526 | 7.45 | PPBV | # | 92 |
| 37) TETRAHYDROFURAN | 3.653 | 72 | 32728 | 10.79 | PPBV | # | 46 |
| 38) HEXANE | 3.393 | 57 | 124174 | 9.76 | PPBV | # | 77 |
| 39) VINYL ACETATE | 2.933 | 86 | 16659 | 10.60 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.852 | 63 | 124069 | 9.92 | PPBV | | 98 |
| 41) METHYL ETHYL KETONE | 3.039 | 72 | 33424 | 10.49 | PPBV | # | 5 |
| 42) CIS-1,2-DICHLOROETHENE | 3.258 | 96 | 68018 | 9.88 | PPBV | # | 80 |
| 43) DIISOPROPYL ETHER | 3.399 | 59 | 32381 | 8.86 | PPBV | # | 48 |
| 44) ETHYL ACETATE | 3.406 | 61 | 25738 | 10.24 | PPBV | # | 45 |
| 45) METHYL ACRYLATE | 3.393 | 55 | 162212 | 10.31 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.422 | 83 | 135620 | 9.60 | PPBV | # | 93 |
| 47) 2,4-DIMETHYLPENTANE | 3.955 | 57 | 147731 | 10.28 | PPBV | # | 94 |
| 48) 1,1,1-TRICHLOROETHANE | 4.042 | 97 | 122719 | 8.84 | PPBV | # | 90 |
| 49) CARBON TETRACHLORIDE | 4.499 | 117 | 137135 | 9.21 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.869 | 62 | 98881 | 9.20 | PPBV | # | 95 |
| 51) BENZENE | 4.380 | 78 | 202291 | 9.58 | PPBV | | 81 |
| 53) CYCLOHEXANE | 4.605 | 84 | 87144 | 10.09 | PPBV | # | 73 |
| 54) 2,3-DIMETHYLPENTANE | 4.878 | 71 | 47036 | 10.00 | PPBV | # | 56 |
| 55) TRICHLOROETHENE | 5.348 | 95 | 90585 | 9.75 | PPBV | | 100 |
| 56) 1,2-DICHLOROPROPANE | 5.103 | 63 | 85143 | 9.98 | PPBV | | 98 |
| 57) DIBROMOMETHANE | 5.061 | 174 | 78303 | 8.93 | PPBV | | 88 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26864.D
Acq On : 4 Nov 2022 10:15 am
Operator : thomash
Sample : bs
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 16:01:49 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.235 | 55 | 198668 | 10.97 | PPBV | # | 97 |
| 59) BROMODICHLOROMETHANE | 5.299 | 83 | 143424 | 9.16 | PPBV | | 98 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.441 | 57 | 401160 | 10.24 | PPBV | # | 98 |
| 61) 1,4-DIOXANE | 5.377 | 88 | 49729 | 12.18 | PPBV | # | 75 |
| 62) HEPTANE | 5.778 | 43 | 132545 | 8.40 | PPBV | # | 77 |
| 63) METHYL METHACRYLATE | 5.685 | 69 | 72029 | 9.52 | PPBV | # | 58 |
| 64) METHYL ISOBUTYL KETONE | 6.470 | 58 | 67407 | 10.54 | PPBV | # | 70 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.348 | 75 | 97463 | 8.62 | PPBV | # | 76 |
| 66) TOLUENE | 7.614 | 91 | 221006 | 8.44 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.685 | 76 | 115357 | 9.14 | PPBV | # | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.068 | 75 | 86964 | 8.73 | PPBV | # | 79 |
| 69) 1,1,2-TRICHLOROETHANE | 7.241 | 83 | 67537 | 9.03 | PPBV | | 98 |
| 70) 2-HEXANONE | 8.225 | 58 | 90926 | 12.20 | PPBV | # | 68 |
| 71) ETHYL METHACRYLATE | 8.360 | 69 | 118228 | 10.61 | PPBV | # | 74 |
| 72) TETRACHLOROETHENE | 9.412 | 164 | 84861 | 9.38 | PPBV | | 94 |
| 73) DIBROMOCHLOROMETHANE | 8.187 | 129 | 141476 | 8.76 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.540 | 107 | 124047 | 9.06 | PPBV | | 100 |
| 75) OCTANE | 9.560 | 43 | 180642 | 8.65 | PPBV | # | 78 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.679 | 131 | 97406 | 9.46 | PPBV | | 95 |
| 78) CHLOROBENZENE | 10.666 | 112 | 183295 | 9.89 | PPBV | | 98 |
| 79) ETHYLBENZENE | 11.569 | 91 | 294167 | 8.90 | PPBV | | 100 |
| 80) M,P-XYLENE | 12.006 | 91 | 455635m | 18.47 | PPBV | | |
| 81) O-XYLENE | 12.961 | 91 | 230791 | 9.35 | PPBV | | 99 |
| 82) STYRENE | 12.746 | 104 | 177107 | 10.73 | PPBV | | 97 |
| 83) NONANE | 14.084 | 43 | 192784 | 9.07 | PPBV | # | 77 |
| 84) BROMOFORM | 11.826 | 173 | 128802 | 9.57 | PPBV | # | 98 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.984 | 83 | 180583 | 10.30 | PPBV | | 98 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.273 | 75 | 136140 | 9.92 | PPBV | | 98 |
| 88) ISOPROPYLBENZENE | 14.498 | 105 | 339084 | 9.96 | PPBV | # | 94 |
| 89) BROMOBENZENE | 14.373 | 77 | 166998 | 10.17 | PPBV | | 95 |
| 90) 2-CHLOROTOLUENE | 15.521 | 91 | 236190 | 10.63 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.858 | 91 | 404154 | 10.78 | PPBV | # | 96 |
| 92) 4-ETHYLTOLUENE | 16.199 | 105 | 341387 | 11.25 | PPBV | | 100 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.350 | 105 | 283633 | 11.05 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.546 | 118 | 151938 | 11.82 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.797 | 119 | 318387 | 11.06 | PPBV | | 98 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.804 | 105 | 298108 | 11.25 | PPBV | | 96 |
| 97) BENZYL CHLORIDE | 16.887 | 91 | 176978 | 11.02 | PPBV | | 98 |
| 98) M-DICHLOROBENZENE | 16.865 | 146 | 199980 | 10.85 | PPBV | | 99 |
| 99) P-DICHLOROBENZENE | 16.945 | 146 | 202174 | 10.99 | PPBV | | 99 |
| 100) O-DICHLOROBENZENE | 17.235 | 146 | 195196 | 10.82 | PPBV | | 99 |
| 101) SEC-BUTYLBENZENE | 17.074 | 105 | 439600 | 11.20 | PPBV | | 99 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.183 | 105 | 288579 | 11.12 | PPBV | | 99 |
| 103) P-ISOPROPYLTOLUENE | 17.251 | 119 | 381859 | 11.35 | PPBV | | 97 |
| 104) N-BUTYLBENZENE | 17.591 | 91 | 363553 | 12.16 | PPBV | | 99 |
| 105) HEXACHLOROETHANE | 17.772 | 117 | 121545m | 9.94 | PPBV | | |
| 106) HEXACHLOROBUTADIENE | 18.797 | 225 | 145248 | 10.87 | PPBV | | 100 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.495 | 180 | 180071 | 12.02 | PPBV | | 99 |
| 108) NAPHTHALENE | 18.543 | 128 | 483817 | 13.10 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26864.D
Acq On : 4 Nov 2022 10:15 am
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Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

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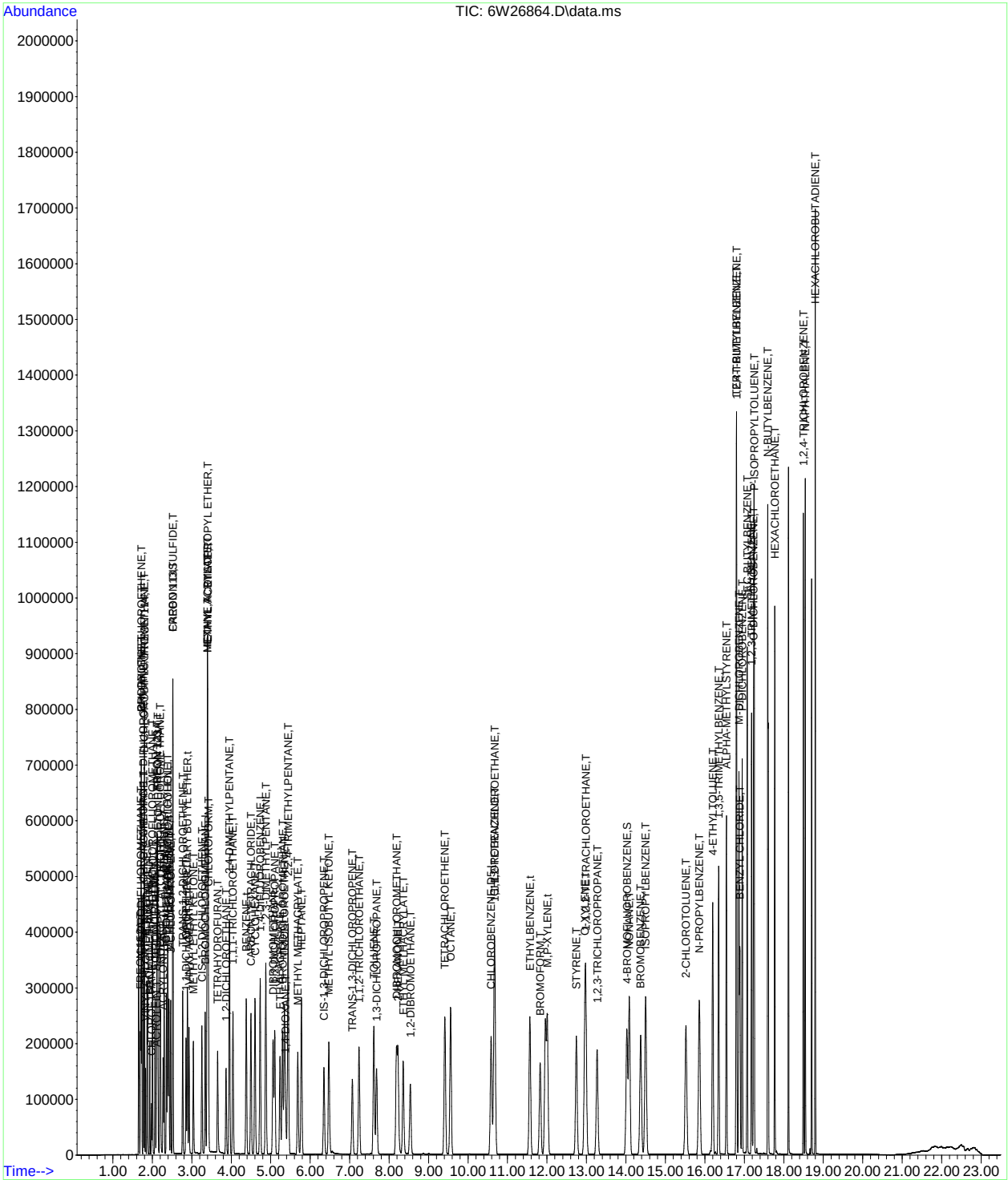
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



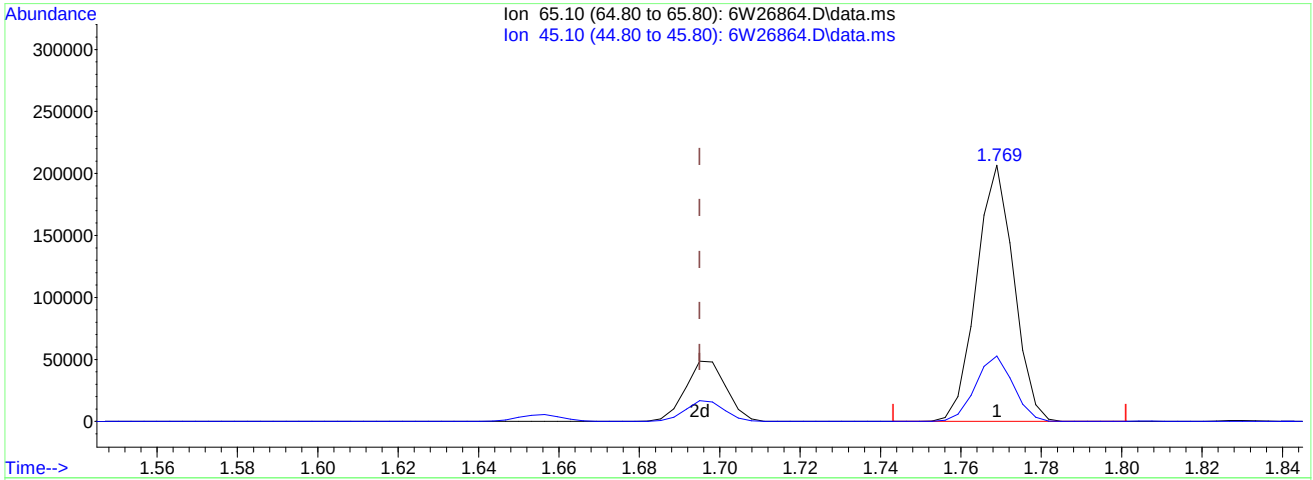
**Sample Number:** V6W1138-BS
**Lab FileID:** 6W26864.D
**Injection Time:** 11/04/22 10:15
**Method:** TO-15
**Analyst approved:** 11/08/22 16:03 William Cruser
**Supervisor approved:** 11/08/22 16:17 Kanya Veerawat

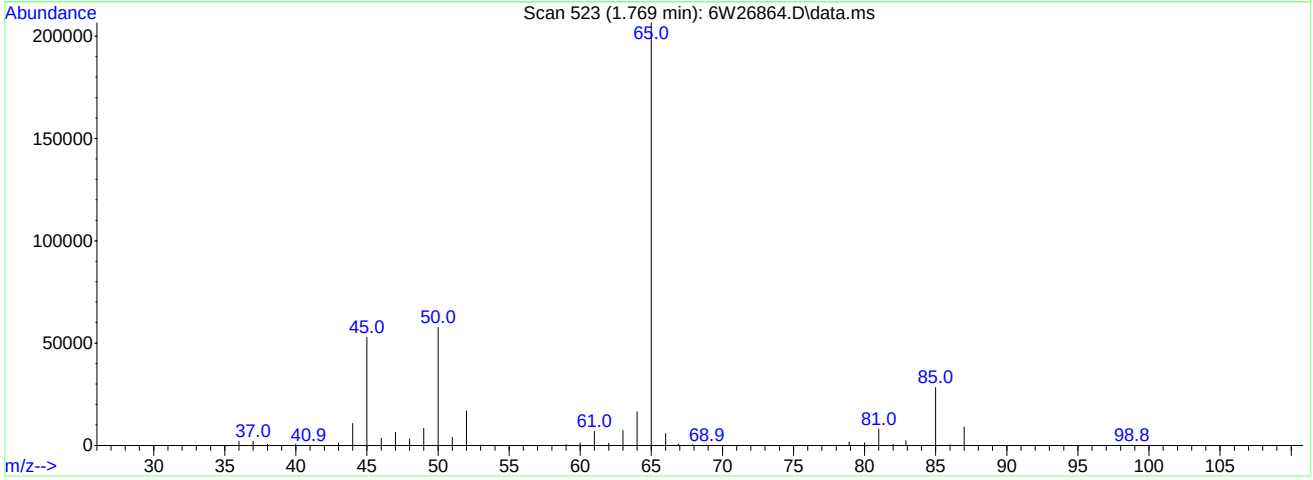
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.69 | Missed peak |
| m,p-Xylene | | | 12.01 | Split peak |
| Hexachloroethane | 67-72-1 | | 17.77 | Missed peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26864.D
Acq On : 4 Nov 2022 10:15 am
Operator : thomash
Sample : bs
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 09:41:14 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26864.D\data.ms

(3) FREON 152A (T)

1.769min (+0.074) 32.70PPBV

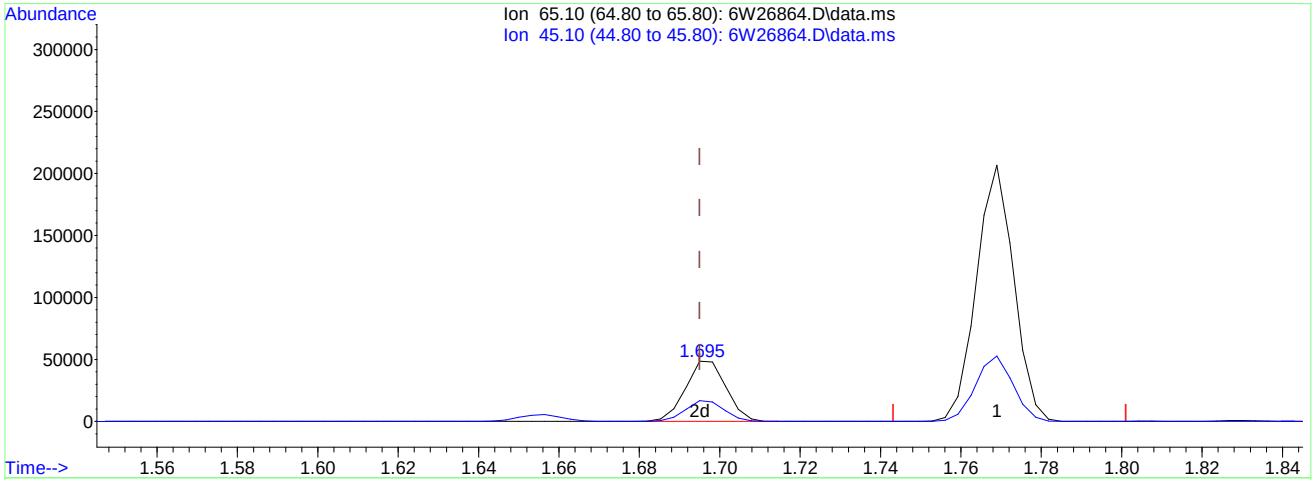
response 133168

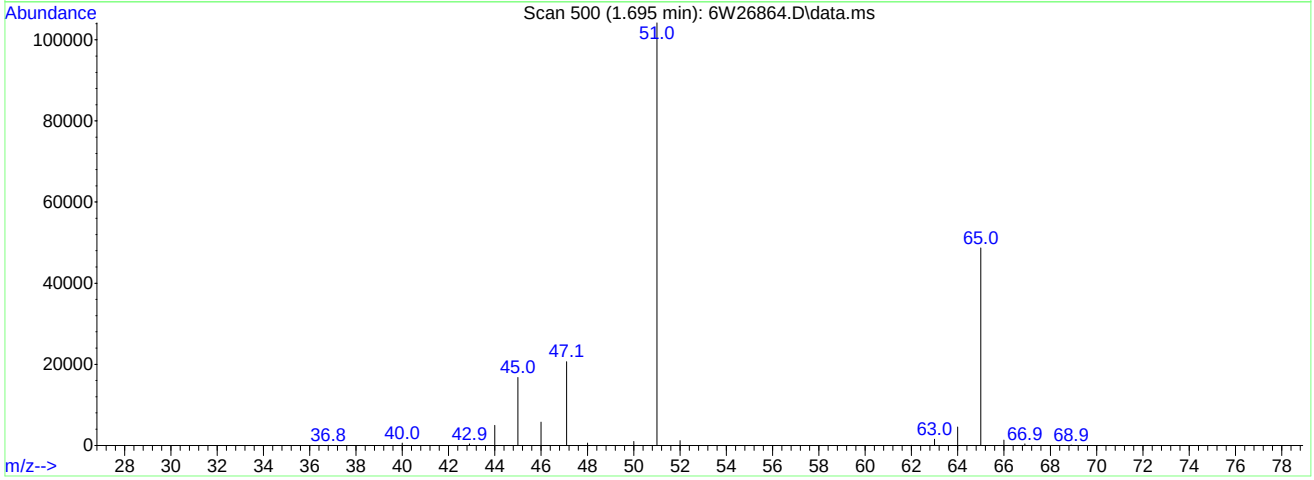
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 22.90 | 25.84 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26864.D
Acq On : 4 Nov 2022 10:15 am
Operator : thomash
Sample : bs
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 09:41:14 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26864.D\data.ms

(3) FREON 152A (T)

1.695min (-0.000) 8.41PPBV m

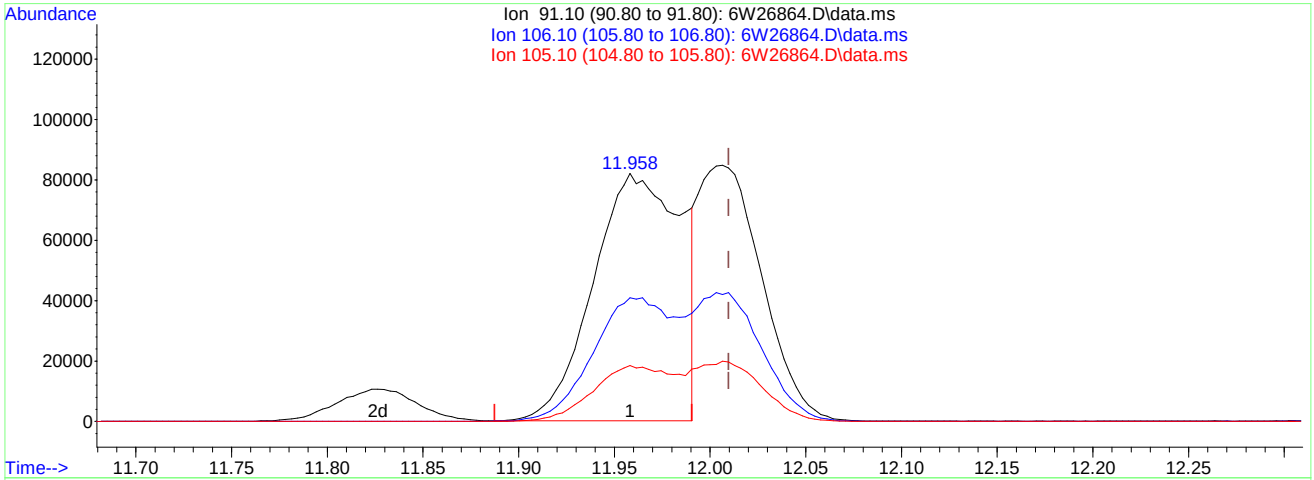
response 34256

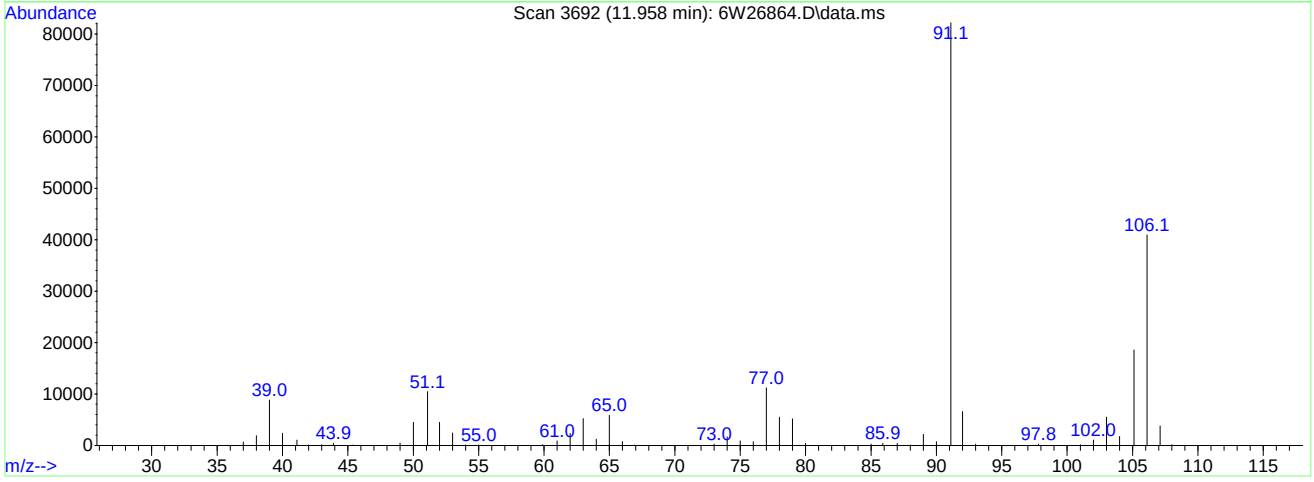
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 22.90 | 100.46# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26864.D
Acq On : 4 Nov 2022 10:15 am
Operator : thomash
Sample : bs
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 09:41:14 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26864.D\data.ms

(80) M,P-XYLENE (t)

11.958min (-0.051) 10.55PPBV

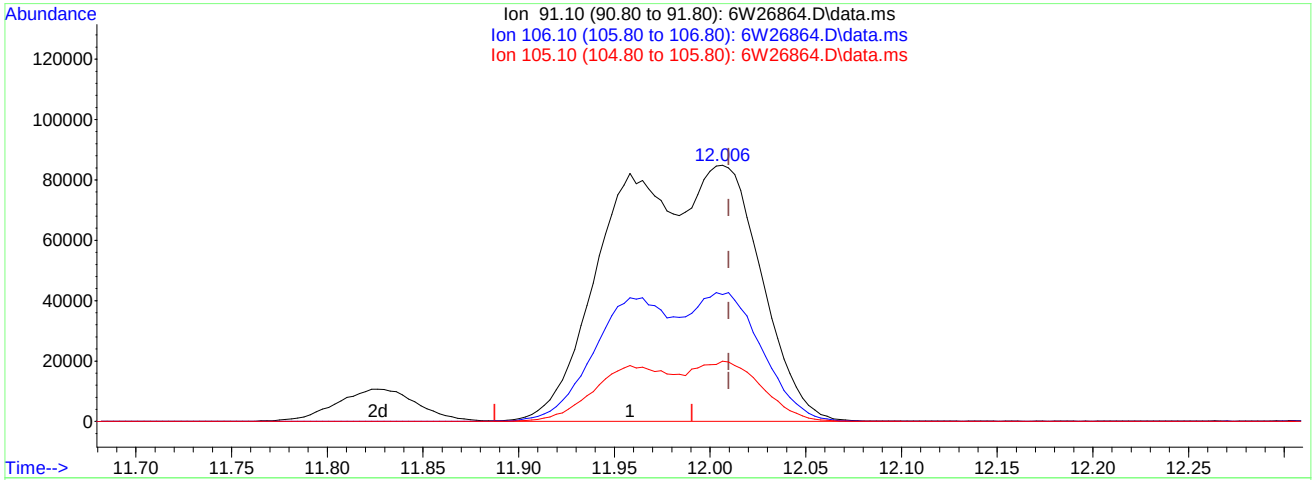
response 260225

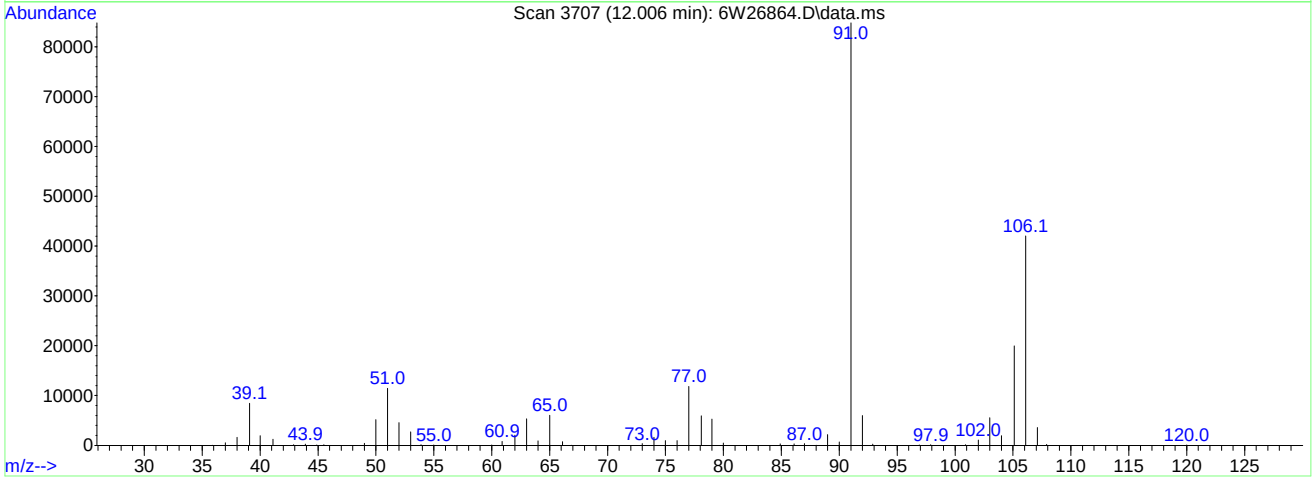
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 45.27 |
| 105.10 | 23.60 | 20.22 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26864.D
Acq On : 4 Nov 2022 10:15 am
Operator : thomash
Sample : bs
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 09:41:14 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26864.D\data.ms

(80) M,P-XYLENE (t)

12.006min (-0.003) 18.47PPBV m

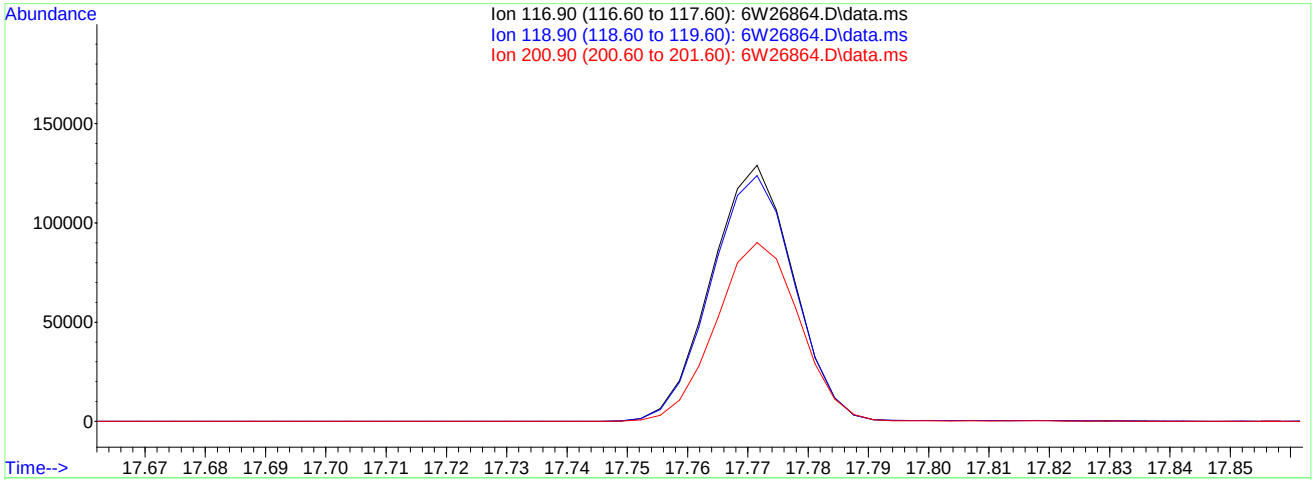
response 455635

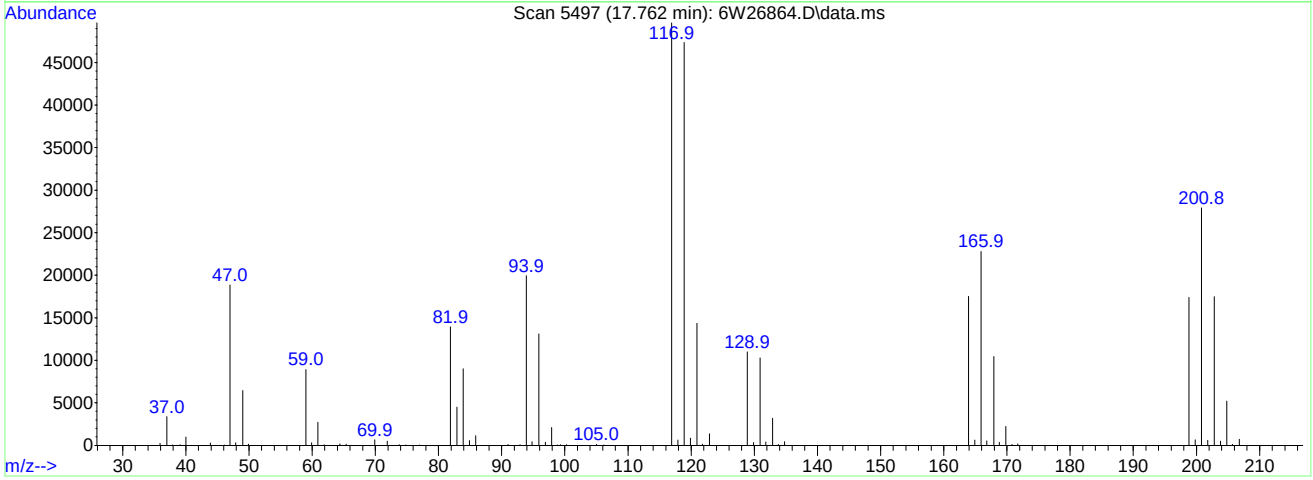
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 25.85# |
| 105.10 | 23.60 | 11.55 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26864.D
Acq On : 4 Nov 2022 10:15 am
Operator : thomash
Sample : bs
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 09:41:14 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26864.D\data.ms

(105) HEXACHLOROETHANE (T)

17.762min (-17.762) 0.00PPBV

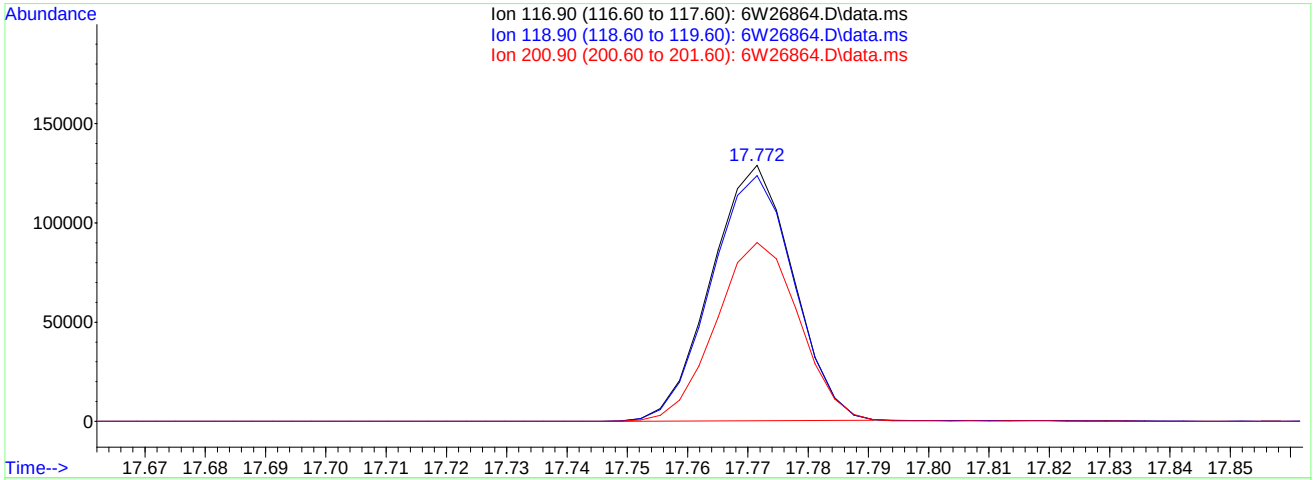
response 0

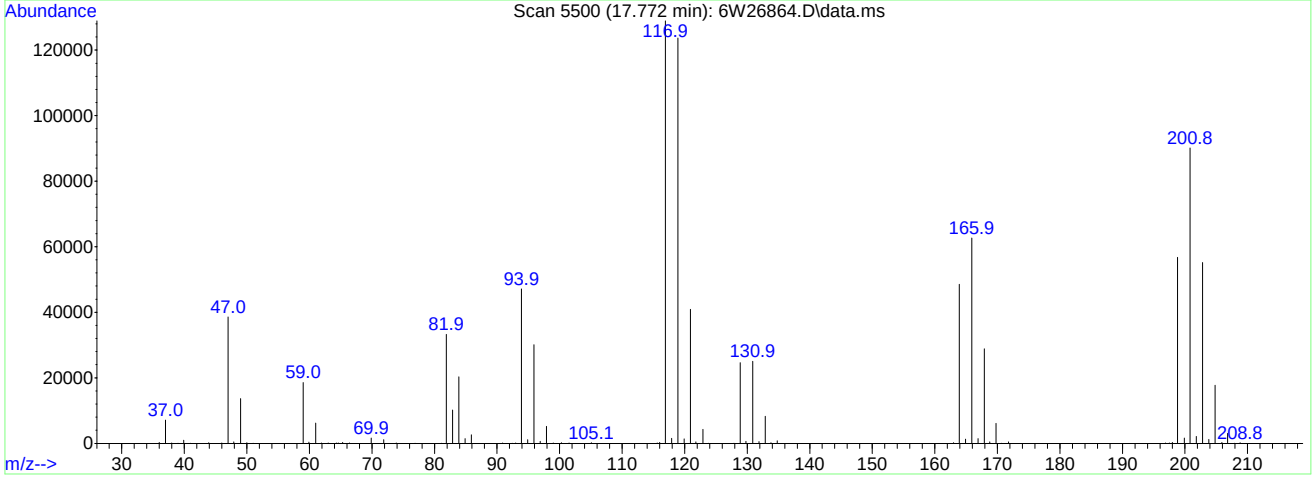
| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 0.00 |
| 118.90 | 95.50 | 0.00# |
| 200.90 | 87.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26864.D
Acq On : 4 Nov 2022 10:15 am
Operator : thomash
Sample : bs
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 09:41:14 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26864.D\data.ms

(105) HEXACHLOROETHANE (T)

17.772min (+0.009) 9.94PPBV m

response 121545

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 95.50 | 0.00# |
| 200.90 | 87.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/08/22 16:17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26865.D
Acq On : 4 Nov 2022 10:47 am
Operator : thomash
Sample : bsd
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 16:02:51 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 45663 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.733 | 114 | 229639 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 189185 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.026 | 95 | 132495 | 10.03 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 34599m | 8.81 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.708 | 67 | 15605 | 8.77 | PPBV | | 96 |
| 5) CHLOROTRIFLUOROETHENE | 1.718 | 116 | 79048 | 9.20 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.730 | 85 | 183746 | 12.87 | PPBV | # | 94 |
| 7) PROPYLENE | 1.714 | 41 | 49447 | 8.45 | PPBV | | 96 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 134143 | 10.26 | PPBV | # | 89 |
| 9) FREON 114 | 1.798 | 85 | 165058 | 10.99 | PPBV | | 97 |
| 10) CHLOROMETHANE | 1.772 | 52 | 21435 | 10.39 | PPBV | | 93 |
| 11) VINYL CHLORIDE | 1.830 | 62 | 69753 | 11.15 | PPBV | | 97 |
| 12) 1,3-BUTADIENE | 1.865 | 54 | 56947 | 11.13 | PPBV | # | 77 |
| 13) N-BUTANE | 1.878 | 43 | 114659 | 9.94 | PPBV | # | 92 |
| 14) BROMOMETHANE | 1.933 | 94 | 57779 | 11.94 | PPBV | | 100 |
| 15) CHLOROETHANE | 1.978 | 64 | 35918 | 11.99 | PPBV | | 96 |
| 16) DICHLOROFLUOROMETHANE | 2.004 | 67 | 144278 | 11.35 | PPBV | # | 96 |
| 17) ACETONITRILE | 2.065 | 41 | 73634 | 10.97 | PPBV | | 98 |
| 18) ACROLEIN | 2.100 | 56 | 34390 | 12.38 | PPBV | | 99 |
| 19) FREON 123 | 2.116 | 83 | 140872 | 11.68 | PPBV | | 96 |
| 20) FREON 123A | 2.132 | 117 | 83695 | 11.51 | PPBV | | 87 |
| 21) TRICHLOROFLUOROMETHANE | 2.190 | 101 | 160252 | 10.76 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.206 | 45 | 148449 | 9.88 | PPBV | # | 95 |
| 23) ACETONE | 2.139 | 58 | 37159 | 10.99 | PPBV | # | 47 |
| 24) PENTANE | 2.296 | 42 | 83965 | 10.48 | PPBV | # | 93 |
| 25) IODOMETHANE | 2.357 | 142 | 166558 | 11.60 | PPBV | | 89 |
| 26) 1,1-DICHLOROETHYLENE | 2.383 | 96 | 61633 | 10.89 | PPBV | # | 61 |
| 27) CARBON DISULFIDE | 2.521 | 76 | 190365 | 10.62 | PPBV | # | 90 |
| 28) ETHANOL | 2.007 | 45 | 35559 | 10.25 | PPBV | | 96 |
| 29) BROMOETHENE | 2.071 | 106 | 59626 | 11.76 | PPBV | # | 98 |
| 30) ACRYLONITRILE | 2.271 | 52 | 56800 | 11.21 | PPBV | | 97 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 56900 | 10.02 | PPBV | # | 51 |
| 32) 3-CHLOROPROPENE | 2.463 | 76 | 29860 | 10.81 | PPBV | # | 1 |
| 33) FREON 113 | 2.518 | 151 | 103369 | 10.30 | PPBV | | 87 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 66927 | 10.59 | PPBV | # | 80 |
| 35) TERTIARY BUTYL ALCOHOL | 2.396 | 59 | 109220 | 8.89 | PPBV | # | 79 |
| 36) METHYL TERTIARY BUTYL ... | 2.888 | 73 | 126960 | 8.07 | PPBV | # | 93 |
| 37) TETRAHYDROFURAN | 3.656 | 72 | 32889 | 11.25 | PPBV | # | 45 |
| 38) HEXANE | 3.393 | 57 | 125406 | 10.23 | PPBV | # | 76 |
| 39) VINYL ACETATE | 2.930 | 86 | 16757 | 11.06 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.853 | 63 | 125971 | 10.45 | PPBV | | 98 |
| 41) METHYL ETHYL KETONE | 3.039 | 72 | 33566 | 10.93 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 69188 | 10.43 | PPBV | # | 82 |
| 43) DIISOPROPYL ETHER | 3.399 | 59 | 33396 | 9.48 | PPBV | # | 47 |
| 44) ETHYL ACETATE | 3.409 | 61 | 26368 | 10.89 | PPBV | # | 45 |
| 45) METHYL ACRYLATE | 3.389 | 55 | 164209 | 10.83 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.422 | 83 | 138128 | 10.15 | PPBV | # | 93 |
| 47) 2,4-DIMETHYLPENTANE | 3.952 | 57 | 148321 | 10.71 | PPBV | # | 94 |
| 48) 1,1,1-TRICHLOROETHANE | 4.045 | 97 | 123605 | 9.24 | PPBV | # | 90 |
| 49) CARBON TETRACHLORIDE | 4.499 | 117 | 138654 | 9.67 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.869 | 62 | 101425 | 9.79 | PPBV | # | 94 |
| 51) BENZENE | 4.380 | 78 | 204786 | 10.06 | PPBV | | 81 |
| 53) CYCLOHEXANE | 4.605 | 84 | 87751 | 10.48 | PPBV | # | 72 |
| 54) 2,3-DIMETHYLPENTANE | 4.875 | 71 | 47655 | 10.45 | PPBV | # | 58 |
| 55) TRICHLOROETHENE | 5.348 | 95 | 88741 | 9.84 | PPBV | | 99 |
| 56) 1,2-DICHLOROPROPANE | 5.100 | 63 | 87235 | 10.54 | PPBV | | 98 |
| 57) DIBROMOMETHANE | 5.058 | 174 | 79849 | 9.39 | PPBV | | 89 |

Quantitation Report (QT Reviewed)

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Data File : 6W26865.D
Acq On : 4 Nov 2022 10:47 am
Operator : thomash
Sample : bsd
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 16:02:51 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.235 | 55 | 201656 | 11.48 | PPBV | # | 97 |
| 59) BROMODICHLOROMETHANE | 5.296 | 83 | 147127 | 9.69 | PPBV | | 98 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.444 | 57 | 349715 | 9.20 | PPBV | | 98 |
| 61) 1,4-DIOXANE | 5.380 | 88 | 46438 | 11.72 | PPBV | # | 79 |
| 62) HEPTANE | 5.778 | 43 | 134005 | 8.76 | PPBV | # | 77 |
| 63) METHYL METHACRYLATE | 5.688 | 69 | 73202 | 9.98 | PPBV | # | 59 |
| 64) METHYL ISOBUTYL KETONE | 6.470 | 58 | 69028 | 11.12 | PPBV | # | 69 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.351 | 75 | 100342 | 9.15 | PPBV | # | 76 |
| 66) TOLUENE | 7.614 | 91 | 224894 | 8.85 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.685 | 76 | 115796 | 9.45 | PPBV | # | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.071 | 75 | 88989 | 9.20 | PPBV | # | 78 |
| 69) 1,1,2-TRICHLOROETHANE | 7.241 | 83 | 68878 | 9.49 | PPBV | | 99 |
| 70) 2-HEXANONE | 8.225 | 58 | 93381 | 12.92 | PPBV | # | 68 |
| 71) ETHYL METHACRYLATE | 8.357 | 69 | 121199 | 11.21 | PPBV | # | 73 |
| 72) TETRACHLOROETHENE | 9.415 | 164 | 86297 | 9.83 | PPBV | | 93 |
| 73) DIBROMOCHLOROMETHANE | 8.187 | 129 | 144591 | 9.23 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.540 | 107 | 127459 | 9.59 | PPBV | | 99 |
| 75) OCTANE | 9.560 | 43 | 184278 | 9.10 | PPBV | # | 78 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.682 | 131 | 98765 | 9.73 | PPBV | | 95 |
| 78) CHLOROBENZENE | 10.666 | 112 | 188237 | 10.30 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.569 | 91 | 300147 | 9.21 | PPBV | | 99 |
| 80) M,P-XYLENE | 12.006 | 91 | 464954m | 19.12 | PPBV | | |
| 81) O-XYLENE | 12.961 | 91 | 236572 | 9.72 | PPBV | | 97 |
| 82) STYRENE | 12.743 | 104 | 182308 | 11.20 | PPBV | | 98 |
| 83) NONANE | 14.087 | 43 | 196085 | 9.36 | PPBV | # | 77 |
| 84) BROMOFORM | 11.826 | 173 | 130890 | 9.86 | PPBV | # | 98 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.987 | 83 | 183619 | 10.62 | PPBV | | 98 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.273 | 75 | 138987 | 10.27 | PPBV | | 98 |
| 88) ISOPROPYLBENZENE | 14.502 | 105 | 344335 | 10.26 | PPBV | # | 94 |
| 89) BROMOBENZENE | 14.376 | 77 | 170921 | 10.55 | PPBV | | 95 |
| 90) 2-CHLOROTOLUENE | 15.524 | 91 | 240444 | 10.97 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.862 | 91 | 417082 | 11.28 | PPBV | # | 96 |
| 92) 4-ETHYLTOLUENE | 16.206 | 105 | 348392 | 11.65 | PPBV | | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.350 | 105 | 291607 | 11.53 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.546 | 118 | 155906 | 12.30 | PPBV | | 98 |
| 95) TERT-BUTYLBENZENE | 16.801 | 119 | 324306 | 11.42 | PPBV | | 98 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.804 | 105 | 303702 | 11.62 | PPBV | | 96 |
| 97) BENZYL CHLORIDE | 16.887 | 91 | 182741 | 11.54 | PPBV | | 98 |
| 98) M-DICHLOROBENZENE | 16.865 | 146 | 204686 | 11.26 | PPBV | | 99 |
| 99) P-DICHLOROBENZENE | 16.945 | 146 | 206250 | 11.37 | PPBV | | 99 |
| 100) O-DICHLOROBENZENE | 17.235 | 146 | 201091 | 11.31 | PPBV | | 99 |
| 101) SEC-BUTYLBENZENE | 17.074 | 105 | 446410 | 11.53 | PPBV | | 99 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.183 | 105 | 298666 | 11.67 | PPBV | | 99 |
| 103) P-ISOPROPYLTOLUENE | 17.247 | 119 | 387690 | 11.68 | PPBV | | 97 |
| 104) N-BUTYLBENZENE | 17.591 | 91 | 367752 | 12.47 | PPBV | | 98 |
| 105) HEXACHLOROETHANE | 17.772 | 117 | 124523 | 10.33 | PPBV | | 90 |
| 106) HEXACHLOROBUTADIENE | 18.794 | 225 | 148276 | 11.26 | PPBV | | 100 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.495 | 180 | 182375 | 12.35 | PPBV | | 99 |
| 108) NAPHTHALENE | 18.543 | 128 | 492042 | 13.51 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26865.D
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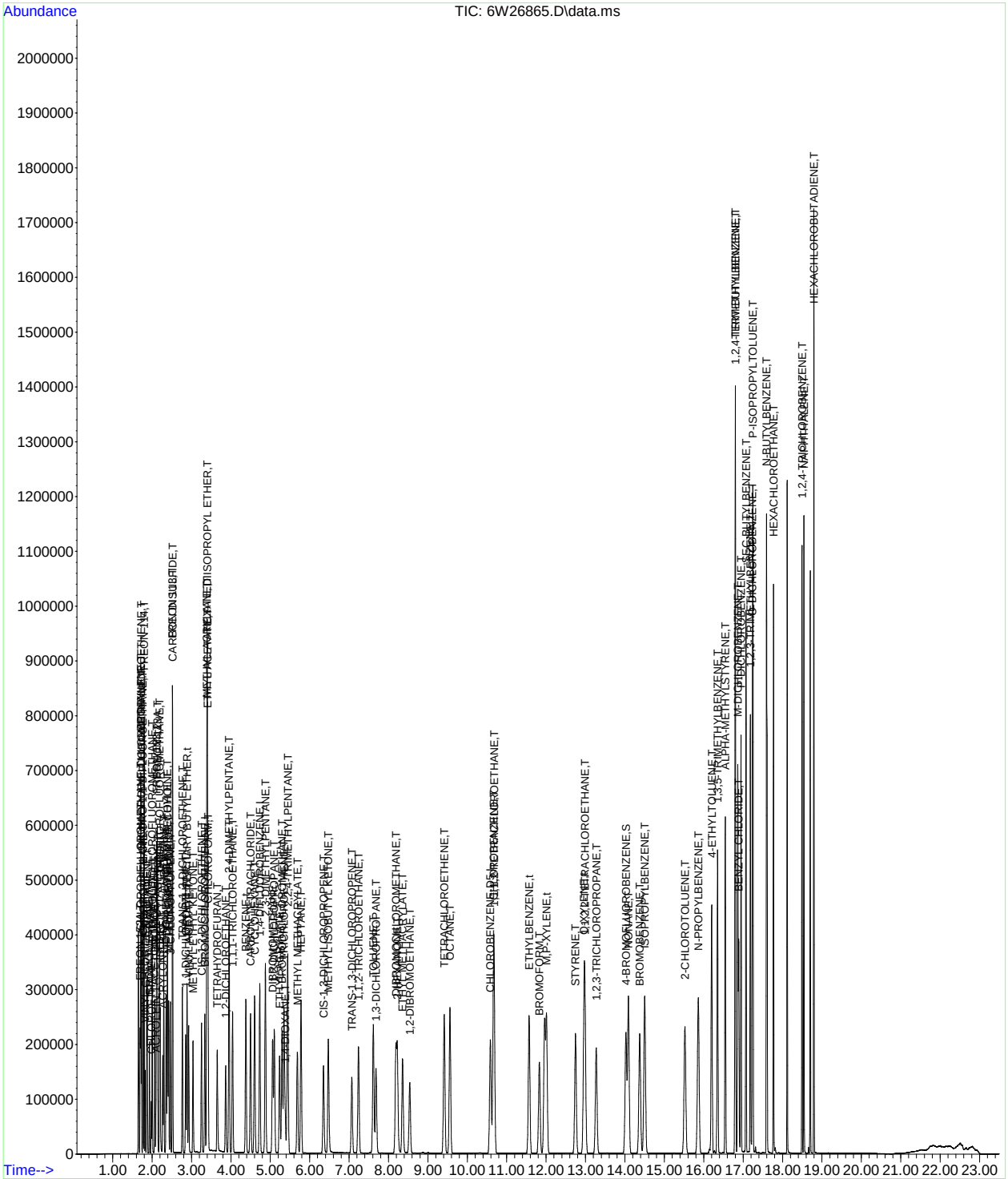
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



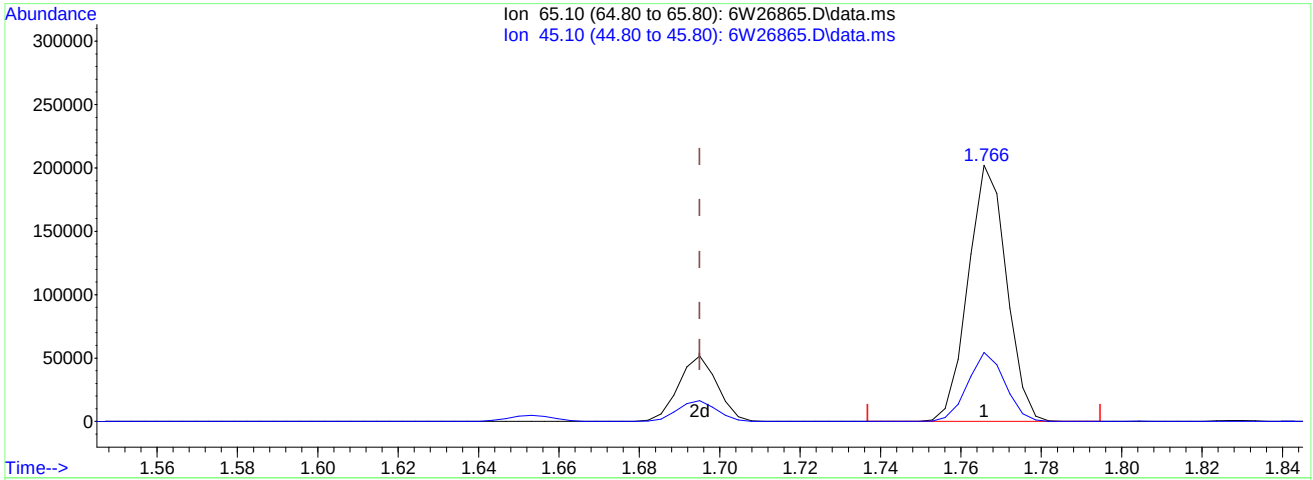
**Sample Number:** V6W1138-BSD
**Lab FileID:** 6W26865.D
**Injection Time:** 11/04/22 10:47
**Method:** TO-15
**Analyst approved:** 11/08/22 16:03 William Cruser
**Supervisor approved:** 11/08/22 16:17 Kanya Veerawat

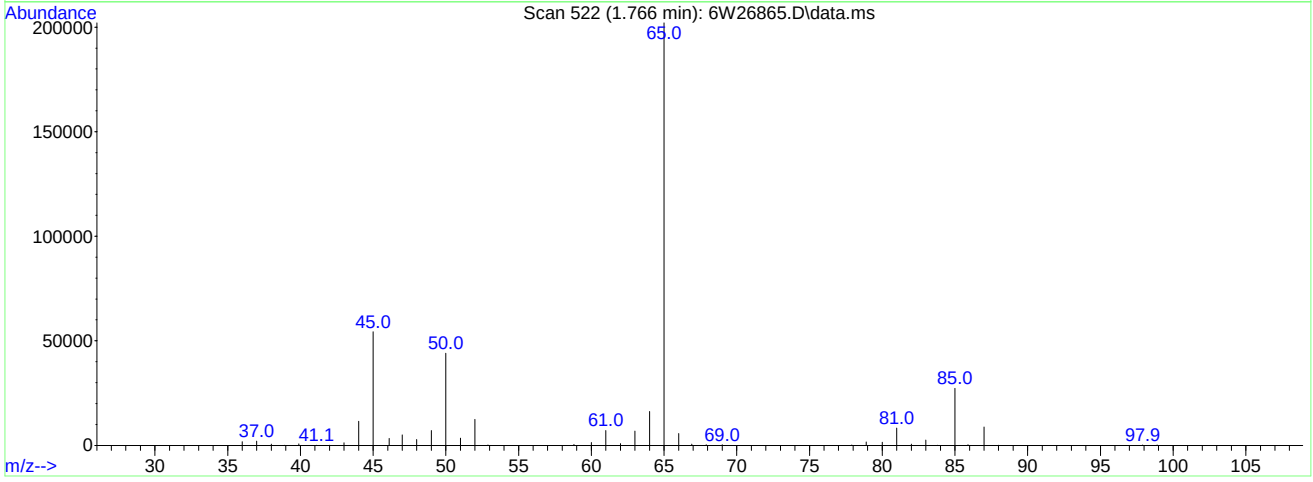
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.69 | Missed peak |
| m,p-Xylene | | | 12.01 | Split peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26865.D
Acq On : 4 Nov 2022 10:47 am
Operator : thomash
Sample : bsd
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 15:43:50 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26865.D\data.ms

(3) FREON 152A (T)

1.766min (+0.071) 34.17PPBV

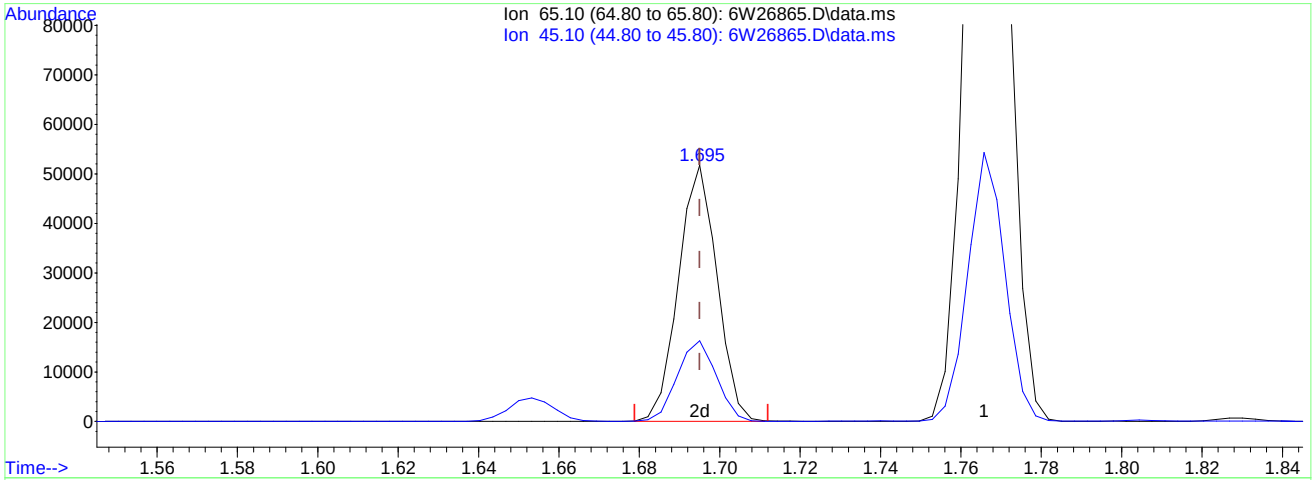
response 134143

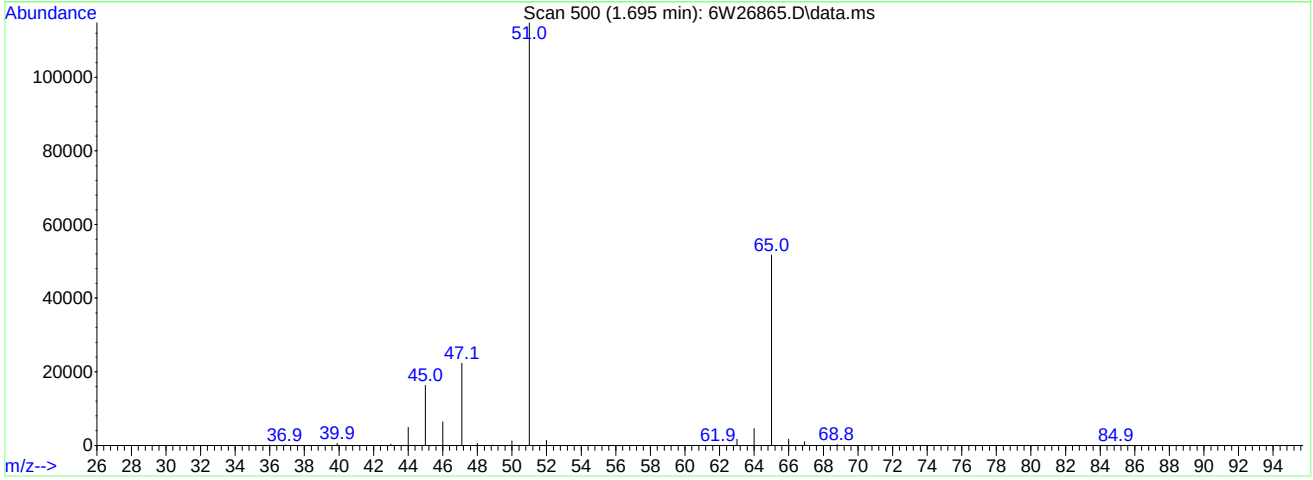
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 22.90 | 26.16 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26865.D
Acq On : 4 Nov 2022 10:47 am
Operator : thomash
Sample : bsd
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 15:43:50 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26865.D\data.ms

(3) FREON 152A (T)

1.695min (-0.000) 8.81PPBV m

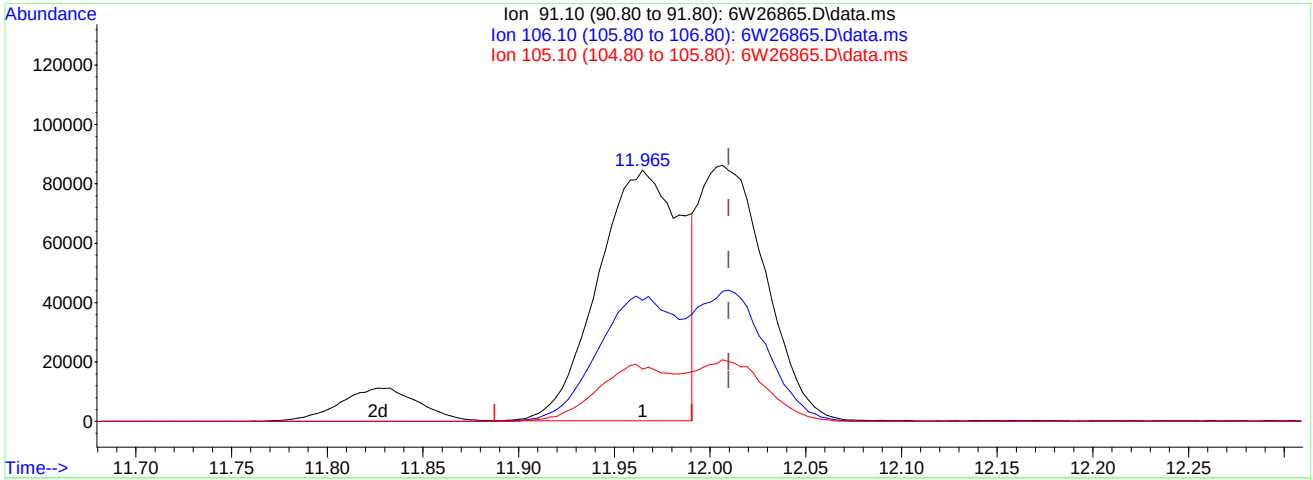
response 34599

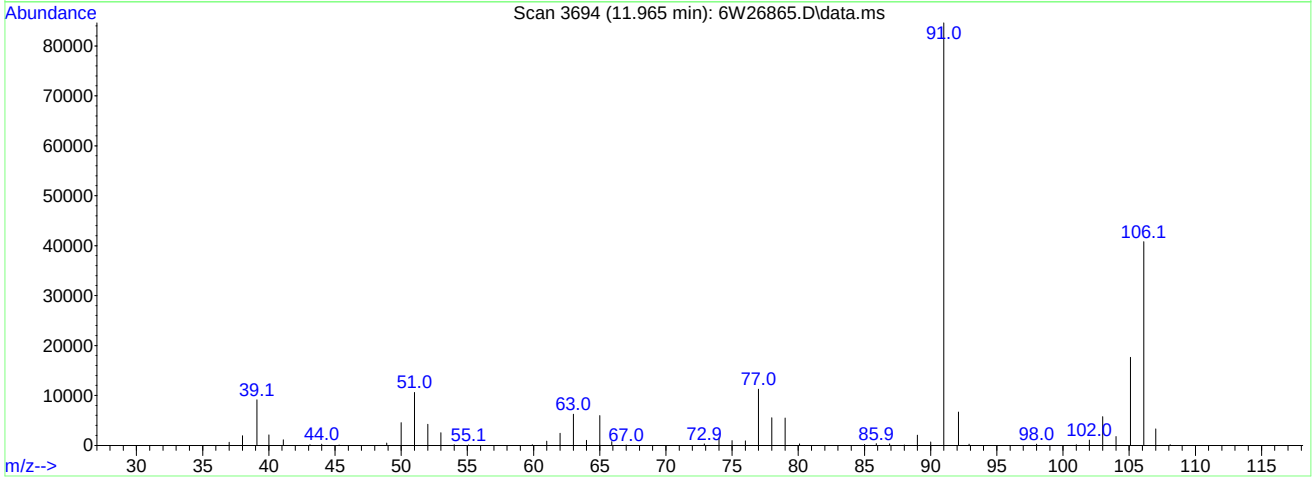
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 22.90 | 101.44# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26865.D
Acq On : 4 Nov 2022 10:47 am
Operator : thomash
Sample : bsd
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 15:43:50 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26865.D\data.ms

(80) M,P-XYLENE (t)

11.965min (-0.045) 10.56PPBV

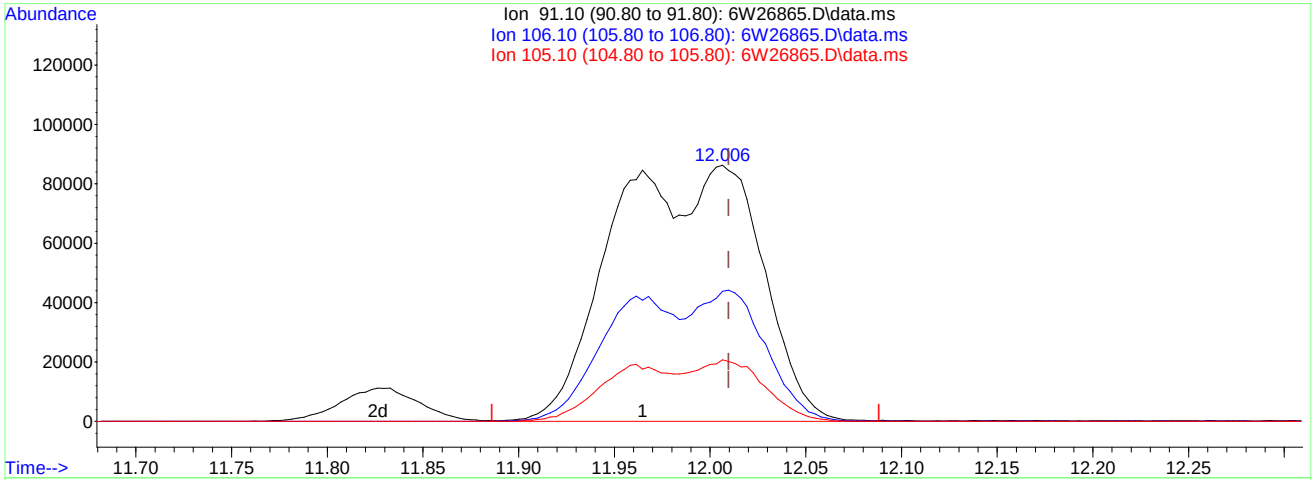
response 256873

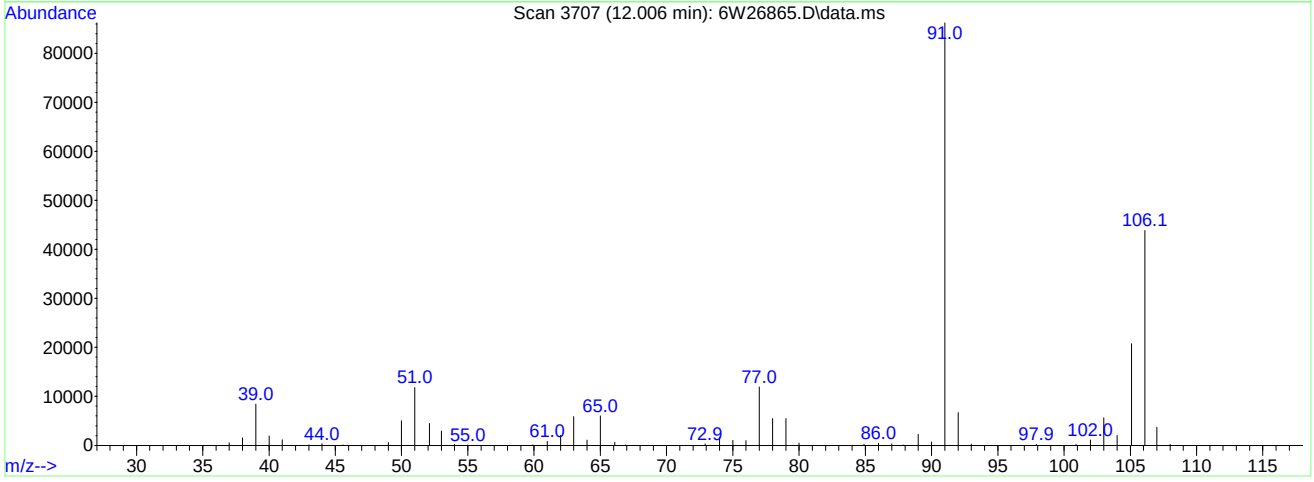
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 45.11 |
| 105.10 | 23.60 | 20.20 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26865.D
Acq On : 4 Nov 2022 10:47 am
Operator : thomash
Sample : bsd
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 15:43:50 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26865.D\data.ms

(80) M,P-XYLENE (t)

12.006min (-0.003) 19.12PPBV m

response 464954

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 24.92# |
| 105.10 | 23.60 | 11.16 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25440.D
Acq On : 11 Aug 2022 9:21 am
Operator : thomash
Sample : bs
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 14:25:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.415 | 128 | 60504 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.791 | 114 | 307857 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.608 | 117 | 263070 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.032 | 95 | 177911 | 9.64 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.721 | 65 | 46907 | 8.65 | PPBV | # | 87 |
| 4) CHLORODIFLUOROMETHANE | 1.734 | 67 | 20993 | 8.61 | PPBV | | 97 |
| 5) CHLOROTRIFLUOROETHENE | 1.743 | 116 | 115483 | 9.78 | PPBV | # | 99 |
| 6) DICHLORODIFLUOROMETHANE | 1.759 | 85 | 336746 | 11.61 | PPBV | # | 94 |
| 7) PROPYLENE | 1.740 | 41 | 57712 | 7.17 | PPBV | | 98 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.795 | 65 | 267716 | 8.65 | PPBV | # | 89 |
| 9) FREON 114 | 1.830 | 85 | 306562 | 9.71 | PPBV | | 98 |
| 10) CHLOROMETHANE | 1.801 | 52 | 34517 | 9.27 | PPBV | | 94 |
| 11) VINYL CHLORIDE | 1.862 | 62 | 116717 | 8.59 | PPBV | | 99 |
| 12) 1,3-BUTADIENE | 1.898 | 54 | 92779 | 9.22 | PPBV | # | 80 |
| 13) N-BUTANE | 1.914 | 43 | 174975 | 7.85 | PPBV | # | 93 |
| 14) BROMOMETHANE | 1.972 | 94 | 103585 | 9.50 | PPBV | | 100 |
| 15) CHLOROETHANE | 2.020 | 64 | 60098 | 8.24 | PPBV | | 99 |
| 16) DICHLOROFLUOROMETHANE | 2.045 | 67 | 253220 | 9.02 | PPBV | # | 97 |
| 17) ACETONITRILE | 2.113 | 41 | 104623 | 8.02 | PPBV | | 96 |
| 18) ACROLEIN | 2.148 | 56 | 42258 | 9.91 | PPBV | | 97 |
| 19) FREON 123 | 2.164 | 83 | 257514 | 9.53 | PPBV | | 98 |
| 20) FREON 123A | 2.180 | 117 | 145328 | 9.71 | PPBV | | 86 |
| 21) TRICHLOROFLUOROMETHANE | 2.245 | 101 | 295310 | 9.44 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.261 | 45 | 237844 | 8.35 | PPBV | # | 96 |
| 23) ACETONE | 2.190 | 58 | 68319 | 8.69 | PPBV | | 73 |
| 24) PENTANE | 2.357 | 42 | 118792 | 8.13 | PPBV | | 94 |
| 25) IODOMETHANE | 2.418 | 142 | 298891 | 10.48 | PPBV | | 89 |
| 26) 1,1-DICHLOROETHYLENE | 2.447 | 96 | 108210 | 9.51 | PPBV | # | 68 |
| 27) CARBON DISULFIDE | 2.592 | 76 | 339973 | 9.58 | PPBV | # | 89 |
| 28) ETHANOL | 2.049 | 45 | 54437 | 8.51 | PPBV | # | 97 |
| 29) BROMOETHENE | 2.119 | 106 | 105060 | 9.91 | PPBV | # | 98 |
| 30) ACRYLONITRILE | 2.328 | 52 | 85297 | 8.62 | PPBV | | 96 |
| 31) METHYLENE CHLORIDE | 2.486 | 84 | 101698 | 9.46 | PPBV | # | 69 |
| 32) 3-CHLOROPROPENE | 2.531 | 76 | 56289 | 9.01 | PPBV | # | 35 |
| 33) FREON 113 | 2.592 | 151 | 198256 | 10.62 | PPBV | | 96 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.846 | 96 | 121199 | 9.46 | PPBV | | 88 |
| 35) TERTIARY BUTYL ALCOHOL | 2.460 | 59 | 253119 | 7.97 | PPBV | # | 82 |
| 36) METHYL TERTIARY BUTYL ... | 2.968 | 73 | 328618 | 8.80 | PPBV | # | 94 |
| 37) TETRAHYDROFURAN | 3.724 | 72 | 40716 | 9.32 | PPBV | | 84 |
| 38) HEXANE | 3.467 | 57 | 136792 | 7.83 | PPBV | # | 85 |
| 39) VINYL ACETATE | 3.007 | 86 | 32737 | 10.45 | PPBV | # | 22 |
| 40) 1,1-DICHLOROETHANE | 2.933 | 63 | 223882 | 9.18 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.116 | 72 | 64647 | 10.50 | PPBV | # | 43 |
| 42) CIS-1,2-DICHLOROETHENE | 3.328 | 96 | 89549 | 8.79 | PPBV | | 93 |
| 43) DIISOPROPYL ETHER | 3.473 | 59 | 41838 | 8.35 | PPBV | | 84 |
| 44) ETHYL ACETATE | 3.479 | 61 | 28846 | 8.55 | PPBV | | 66 |
| 45) METHYL ACRYLATE | 3.463 | 55 | 173565 | 8.11 | PPBV | # | 98 |
| 46) CHLOROFORM | 3.492 | 83 | 190589 | 8.92 | PPBV | # | 97 |
| 47) 2,4-DIMETHYLPENTANE | 4.023 | 57 | 157126 | 7.89 | PPBV | | 96 |
| 48) 1,1,1-TRICHLOROETHANE | 4.110 | 97 | 179788 | 8.68 | PPBV | | 97 |
| 49) CARBON TETRACHLORIDE | 4.563 | 117 | 191234 | 9.17 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 3.936 | 62 | 120076 | 7.81 | PPBV | # | 97 |
| 51) BENZENE | 4.444 | 78 | 262417 | 8.47 | PPBV | | 91 |
| 53) CYCLOHEXANE | 4.663 | 84 | 113605 | 8.96 | PPBV | | 95 |
| 54) 2,3-DIMETHYLPENTANE | 4.936 | 71 | 57639 | 8.91 | PPBV | | 80 |
| 55) TRICHLOROETHENE | 5.405 | 95 | 120443 | 9.19 | PPBV | | 95 |
| 56) 1,2-DICHLOROPROPANE | 5.158 | 63 | 102499 | 9.08 | PPBV | | 94 |
| 57) DIBROMOMETHANE | 5.113 | 174 | 128078 | 10.14 | PPBV | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25440.D
Acq On : 11 Aug 2022 9:21 am
Operator : thomash
Sample : bs
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 14:25:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

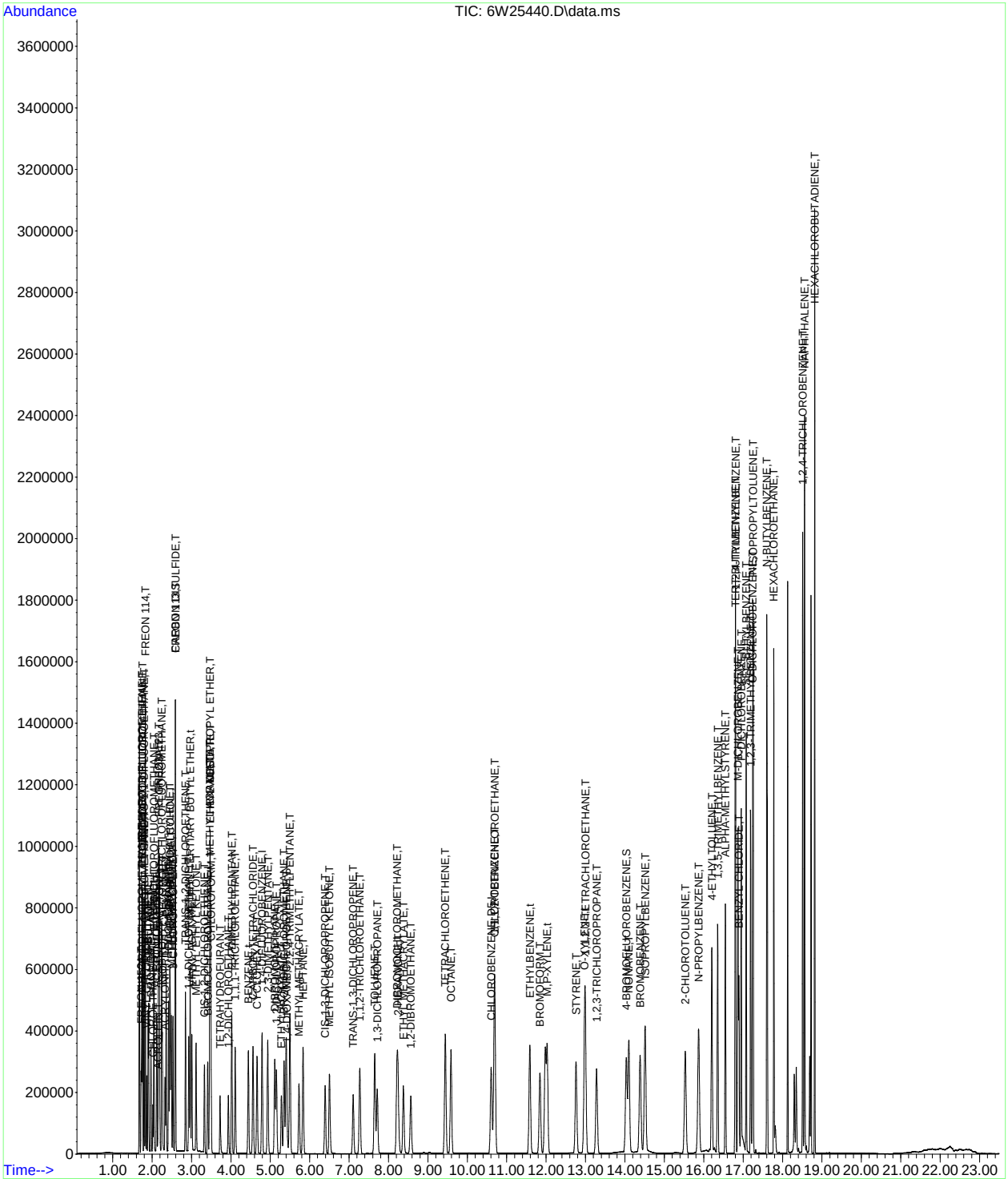
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.280 | 55 | 209842 | 8.72 | PPBV | | 99 |
| 59) BROMODICHLOROMETHANE | 5.348 | 83 | 203544 | 9.38 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.495 | 57 | 431459 | 8.20 | PPBV | | 99 |
| 61) 1,4-DIOXANE | 5.422 | 88 | 65989 | 10.83 | PPBV | # | 97 |
| 62) HEPTANE | 5.833 | 43 | 145107 | 7.28 | PPBV | | 90 |
| 63) METHYL METHACRYLATE | 5.727 | 69 | 98867 | 9.37 | PPBV | # | 81 |
| 64) METHYL ISOBUTYL KETONE | 6.499 | 58 | 86562 | 9.34 | PPBV | | 82 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.393 | 75 | 149306 | 8.83 | PPBV | # | 84 |
| 66) TOLUENE | 7.650 | 91 | 320796 | 8.80 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.714 | 76 | 165952 | 8.95 | PPBV | # | 99 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.100 | 75 | 133354 | 8.36 | PPBV | # | 85 |
| 69) 1,1,2-TRICHLOROETHANE | 7.270 | 83 | 98790 | 9.09 | PPBV | | 98 |
| 70) 2-HEXANONE | 8.241 | 58 | 107579 | 10.61 | PPBV | # | 78 |
| 71) ETHYL METHACRYLATE | 8.380 | 69 | 160892 | 10.04 | PPBV | # | 85 |
| 72) TETRACHLOROETHENE | 9.441 | 164 | 136633 | 10.27 | PPBV | | 99 |
| 73) DIBROMOCHLOROMETHANE | 8.216 | 129 | 209802 | 10.18 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.566 | 107 | 182566 | 9.32 | PPBV | | 100 |
| 75) OCTANE | 9.585 | 43 | 208831 | 7.56 | PPBV | # | 87 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.698 | 131 | 149750 | 10.41 | PPBV | | 99 |
| 78) CHLOROBENZENE | 10.685 | 112 | 271236 | 9.55 | PPBV | | 100 |
| 79) ETHYLBENZENE | 11.588 | 91 | 429503 | 9.15 | PPBV | | 100 |
| 80) M,P-XYLENE | 12.026 | 91 | 660019 | 18.59 | PPBV | # | 67 |
| 81) O-XYLENE | 12.971 | 91 | 336321 | 9.17 | PPBV | | 96 |
| 82) STYRENE | 12.762 | 104 | 258927 | 10.03 | PPBV | | 97 |
| 83) NONANE | 14.100 | 43 | 226113 | 8.21 | PPBV | # | 85 |
| 84) BROMOFORM | 11.839 | 173 | 209020 | 11.48 | PPBV | # | 98 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.997 | 83 | 269670 | 9.53 | PPBV | | 99 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.283 | 75 | 197606 | 9.34 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.514 | 120 | 136161 | 9.76 | PPBV | | 92 |
| 89) BROMOBENZENE | 14.386 | 77 | 242968 | 9.02 | PPBV | | 96 |
| 90) 2-CHLOROTOLUENE | 15.534 | 126 | 123899 | 10.13 | PPBV | | 98 |
| 91) N-PROPYLBENZENE | 15.868 | 120 | 141665 | 10.10 | PPBV | # | 89 |
| 92) 4-ETHYLTOLUENE | 16.209 | 105 | 504385 | 9.91 | PPBV | # | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.357 | 105 | 414683 | 9.73 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.550 | 118 | 208790 | 10.52 | PPBV | | 98 |
| 95) TERT-BUTYLBENZENE | 16.801 | 134 | 109588 | 9.91 | PPBV | | 90 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.810 | 105 | 440492 | 9.79 | PPBV | | 94 |
| 97) BENZYL CHLORIDE | 16.894 | 91 | 289739 | 8.10 | PPBV | | 98 |
| 98) M-DICHLOROBENZENE | 16.868 | 146 | 314410 | 10.21 | PPBV | | 99 |
| 99) P-DICHLOROBENZENE | 16.952 | 146 | 323694 | 10.38 | PPBV | | 99 |
| 100) O-DICHLOROBENZENE | 17.241 | 146 | 308708 | 10.38 | PPBV | | 99 |
| 101) SEC-BUTYLBENZENE | 17.077 | 134 | 137894 | 10.32 | PPBV | | 88 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.190 | 105 | 427241 | 9.72 | PPBV | | 99 |
| 103) P-ISOPROPYLTOLUENE | 17.254 | 134 | 154810 | 10.23 | PPBV | | 92 |
| 104) N-BUTYLBENZENE | 17.601 | 134 | 147987 | 10.38 | PPBV | | 96 |
| 105) HEXACHLOROETHANE | 17.778 | 117 | 172946 | 9.86 | PPBV | | 93 |
| 106) HEXACHLOROBUTADIENE | 18.817 | 225 | 267390 | 10.24 | PPBV | | 100 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.511 | 180 | 345167 | 11.30 | PPBV | | 98 |
| 108) NAPHTHALENE | 18.559 | 128 | 805735 | 10.61 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25440.D
Acq On : 11 Aug 2022 9:21 am
Operator : thomash
Sample : bs
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 14:25:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25441.D
Acq On : 11 Aug 2022 10:25 am
Operator : thomash
Sample : bsd
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 14:25:52 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.412 | 128 | 60081 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.791 | 114 | 304482 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.608 | 117 | 262246 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.032 | 95 | 175945 | 9.56 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.721 | 65 | 46192 | 8.57 | PPBV | # | 90 |
| 4) CHLORODIFLUOROMETHANE | 1.730 | 67 | 20517 | 8.47 | PPBV | | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.743 | 116 | 116973 | 9.97 | PPBV | # | 99 |
| 6) DICHLORODIFLUOROMETHANE | 1.827 | 85 | 280822 | 9.75 | PPBV | | 99 |
| 7) PROPYLENE | 1.740 | 41 | 57527 | 7.20 | PPBV | | 97 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.795 | 65 | 268565 | 8.74 | PPBV | # | 89 |
| 9) FREON 114 | 1.830 | 85 | 307886 | 9.82 | PPBV | | 98 |
| 10) CHLOROMETHANE | 1.801 | 52 | 34285 | 9.27 | PPBV | | 95 |
| 11) VINYL CHLORIDE | 1.859 | 62 | 119082 | 8.82 | PPBV | | 97 |
| 12) 1,3-BUTADIENE | 1.898 | 54 | 93178 | 9.33 | PPBV | # | 80 |
| 13) N-BUTANE | 1.914 | 43 | 173662 | 7.84 | PPBV | | 95 |
| 14) BROMOMETHANE | 1.972 | 94 | 103761 | 9.58 | PPBV | | 100 |
| 15) CHLOROETHANE | 2.020 | 64 | 59639 | 8.24 | PPBV | | 98 |
| 16) DICHLOROFLUOROMETHANE | 2.042 | 67 | 254188 | 9.12 | PPBV | # | 96 |
| 17) ACETONITRILE | 2.113 | 41 | 103279 | 7.97 | PPBV | | 95 |
| 18) ACROLEIN | 2.148 | 56 | 42895 | 10.13 | PPBV | | 99 |
| 19) FREON 123 | 2.164 | 83 | 255893 | 9.54 | PPBV | | 98 |
| 20) FREON 123A | 2.180 | 117 | 145444 | 9.78 | PPBV | | 87 |
| 21) TRICHLOROFLUOROMETHANE | 2.242 | 101 | 292894 | 9.42 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.261 | 45 | 236623 | 8.37 | PPBV | | 96 |
| 23) ACETONE | 2.187 | 58 | 68682 | 8.80 | PPBV | | 73 |
| 24) PENTANE | 2.357 | 42 | 117971 | 8.13 | PPBV | | 94 |
| 25) IODOMETHANE | 2.418 | 142 | 299861 | 10.59 | PPBV | | 90 |
| 26) 1,1-DICHLOROETHYLENE | 2.447 | 96 | 106346 | 9.41 | PPBV | # | 66 |
| 27) CARBON DISULFIDE | 2.592 | 76 | 337434 | 9.57 | PPBV | # | 88 |
| 28) ETHANOL | 2.049 | 45 | 53758 | 8.46 | PPBV | # | 96 |
| 29) BROMOETHENE | 2.119 | 106 | 104695 | 9.95 | PPBV | # | 97 |
| 30) ACRYLONITRILE | 2.328 | 52 | 85243 | 8.68 | PPBV | | 95 |
| 31) METHYLENE CHLORIDE | 2.486 | 84 | 100933 | 9.46 | PPBV | # | 68 |
| 32) 3-CHLOROPROPENE | 2.531 | 76 | 56532 | 9.11 | PPBV | # | 37 |
| 33) FREON 113 | 2.589 | 151 | 196025 | 10.58 | PPBV | | 95 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.846 | 96 | 121262 | 9.54 | PPBV | | 87 |
| 35) TERTIARY BUTYL ALCOHOL | 2.460 | 59 | 252631 | 8.01 | PPBV | # | 82 |
| 36) METHYL TERTIARY BUTYL ... | 2.965 | 73 | 329015 | 8.87 | PPBV | # | 95 |
| 37) TETRAHYDROFURAN | 3.724 | 72 | 40458 | 9.32 | PPBV | | 83 |
| 38) HEXANE | 3.463 | 57 | 135055 | 7.78 | PPBV | # | 84 |
| 39) VINYL ACETATE | 3.010 | 86 | 32834 | 10.55 | PPBV | # | 26 |
| 40) 1,1-DICHLOROETHANE | 2.930 | 63 | 223894 | 9.24 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.116 | 72 | 63717 | 10.43 | PPBV | # | 42 |
| 42) CIS-1,2-DICHLOROETHENE | 3.328 | 96 | 100966 | 9.98 | PPBV | | 90 |
| 43) DIISOPROPYL ETHER | 3.470 | 59 | 40878 | 8.22 | PPBV | | 80 |
| 44) ETHYL ACETATE | 3.479 | 61 | 29097 | 8.69 | PPBV | | 67 |
| 45) METHYL ACRYLATE | 3.463 | 55 | 174209 | 8.19 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.492 | 83 | 191480 | 9.03 | PPBV | # | 96 |
| 47) 2,4-DIMETHYLPENTANE | 4.023 | 57 | 157075 | 7.94 | PPBV | | 98 |
| 48) 1,1,1-TRICHLOROETHANE | 4.110 | 97 | 181150 | 8.81 | PPBV | | 98 |
| 49) CARBON TETRACHLORIDE | 4.560 | 117 | 191274 | 9.24 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.936 | 62 | 120177 | 7.87 | PPBV | # | 97 |
| 51) BENZENE | 4.444 | 78 | 263262 | 8.55 | PPBV | | 92 |
| 53) CYCLOHEXANE | 4.663 | 84 | 115355 | 9.20 | PPBV | | 95 |
| 54) 2,3-DIMETHYLPENTANE | 4.939 | 71 | 57688 | 9.02 | PPBV | | 81 |
| 55) TRICHLOROETHENE | 5.402 | 95 | 121713 | 9.39 | PPBV | | 97 |
| 56) 1,2-DICHLOROPROPANE | 5.155 | 63 | 101485 | 9.09 | PPBV | | 95 |
| 57) DIBROMOMETHANE | 5.113 | 174 | 127331 | 10.19 | PPBV | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25441.D
Acq On : 11 Aug 2022 10:25 am
Operator : thomash
Sample : bsd
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 14:25:52 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

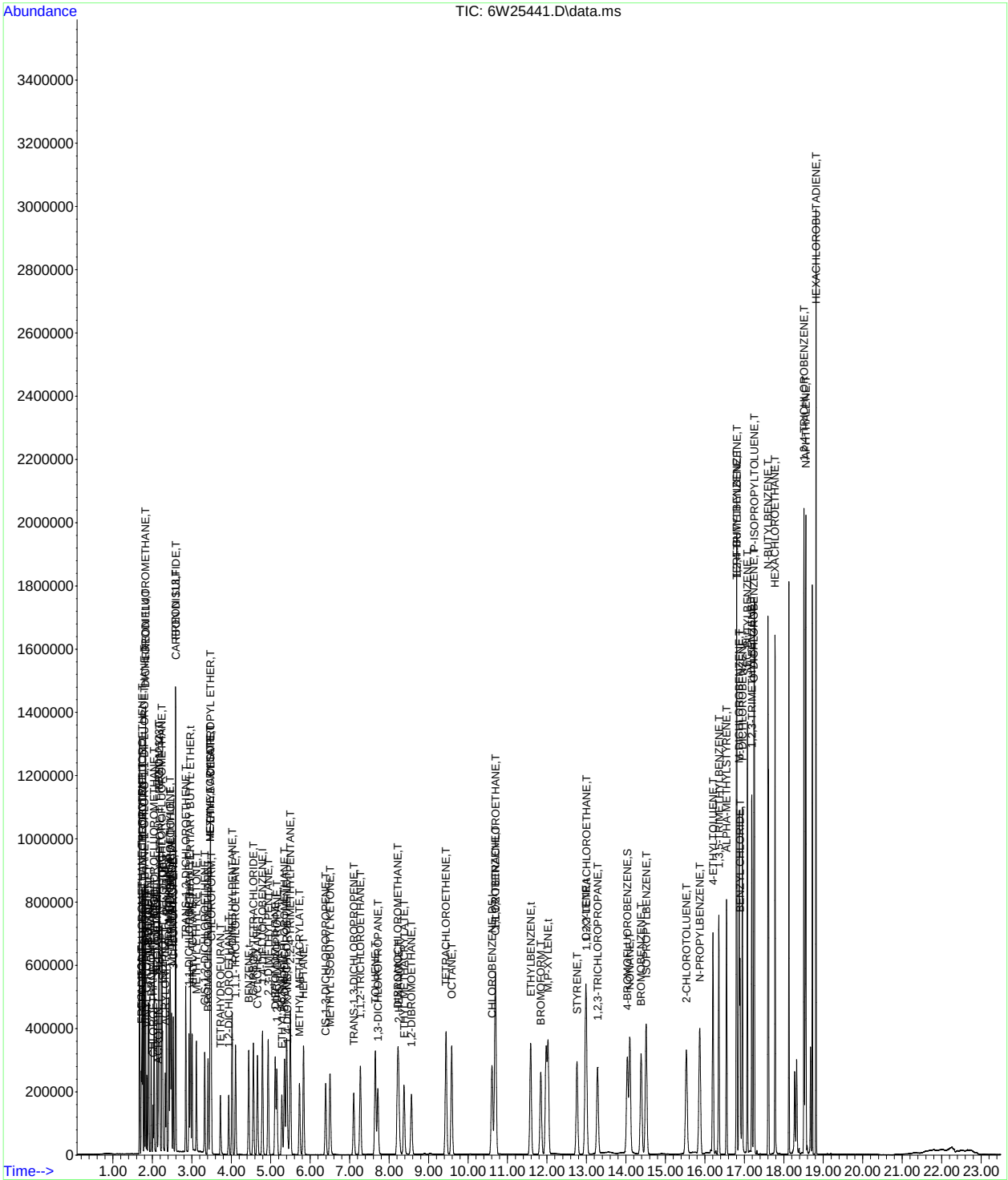
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 58) | ETHYL ACRYLATE | 5.283 | 55 | 208826 | 8.77 | PPBV | | 98 |
| 59) | BROMODICHLOROMETHANE | 5.348 | 83 | 205045 | 9.55 | PPBV | | 100 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.495 | 57 | 432910 | 8.32 | PPBV | | 99 |
| 61) | 1,4-DIOXANE | 5.422 | 88 | 66459 | 11.03 | PPBV | # | 96 |
| 62) | HEPTANE | 5.830 | 43 | 145597 | 7.38 | PPBV | | 90 |
| 63) | METHYL METHACRYLATE | 5.730 | 69 | 99377 | 9.52 | PPBV | # | 82 |
| 64) | METHYL ISOBUTYL KETONE | 6.505 | 58 | 87306 | 9.52 | PPBV | | 82 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.393 | 75 | 151461 | 9.06 | PPBV | # | 84 |
| 66) | TOLUENE | 7.650 | 91 | 321226 | 8.91 | PPBV | | 100 |
| 67) | 1,3-DICHLOROPROPANE | 7.714 | 76 | 167554 | 9.14 | PPBV | | 98 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.103 | 75 | 134843 | 8.55 | PPBV | # | 85 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.270 | 83 | 99467 | 9.26 | PPBV | | 99 |
| 70) | 2-HEXANONE | 8.245 | 58 | 108742 | 10.84 | PPBV | # | 79 |
| 71) | ETHYL METHACRYLATE | 8.376 | 69 | 161377 | 10.18 | PPBV | # | 85 |
| 72) | TETRACHLOROETHENE | 9.441 | 164 | 137052 | 10.42 | PPBV | | 98 |
| 73) | DIBROMOCHLOROMETHANE | 8.216 | 129 | 208777 | 10.24 | PPBV | | 99 |
| 74) | 1,2-DIBROMOETHANE | 8.566 | 107 | 181681 | 9.38 | PPBV | | 99 |
| 75) | OCTANE | 9.585 | 43 | 209145 | 7.66 | PPBV | # | 87 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.698 | 131 | 148010 | 10.33 | PPBV | | 99 |
| 78) | CHLOROBENZENE | 10.685 | 112 | 271769 | 9.60 | PPBV | | 99 |
| 79) | ETHYLBENZENE | 11.588 | 91 | 427512 | 9.14 | PPBV | | 99 |
| 80) | M,P-XYLENE | 12.026 | 91 | 659008 | 18.62 | PPBV | # | 66 |
| 81) | O-XYLENE | 12.981 | 91 | 334338 | 9.14 | PPBV | | 98 |
| 82) | STYRENE | 12.759 | 104 | 255634 | 9.93 | PPBV | | 98 |
| 83) | NONANE | 14.096 | 43 | 227185 | 8.27 | PPBV | # | 85 |
| 84) | BROMOFORM | 11.842 | 173 | 208120 | 11.47 | PPBV | | 99 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 12.997 | 83 | 270709 | 9.60 | PPBV | | 100 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.280 | 75 | 199050 | 9.44 | PPBV | # | 100 |
| 88) | ISOPROPYLBENZENE | 14.514 | 120 | 135753 | 9.76 | PPBV | | 91 |
| 89) | BROMOBENZENE | 14.383 | 77 | 243687 | 9.08 | PPBV | | 96 |
| 90) | 2-CHLOROTOLUENE | 15.534 | 126 | 123955 | 10.16 | PPBV | | 100 |
| 91) | N-PROPYLBENZENE | 15.868 | 120 | 136630 | 9.77 | PPBV | | 100 |
| 92) | 4-ETHYLTOLUENE | 16.206 | 105 | 492235 | 9.70 | PPBV | | 98 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.354 | 105 | 407761 | 9.60 | PPBV | | 98 |
| 94) | ALPHA-METHYLSTYRENE | 16.546 | 118 | 208645 | 10.55 | PPBV | | 99 |
| 95) | TERT-BUTYLBENZENE | 16.800 | 134 | 110243 | 10.00 | PPBV | | 90 |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.810 | 105 | 441260 | 9.84 | PPBV | | 94 |
| 97) | BENZYL CHLORIDE | 16.894 | 91 | 302408 | 8.48 | PPBV | | 97 |
| 98) | M-DICHLOROBENZENE | 16.871 | 146 | 316349 | 10.30 | PPBV | | 99 |
| 99) | P-DICHLOROBENZENE | 16.952 | 146 | 321516 | 10.34 | PPBV | | 99 |
| 100) | O-DICHLOROBENZENE | 17.241 | 146 | 303927 | 10.25 | PPBV | | 99 |
| 101) | SEC-BUTYLBENZENE | 17.077 | 134 | 139182 | 10.45 | PPBV | | 87 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.190 | 105 | 422369 | 9.64 | PPBV | | 99 |
| 103) | P-ISOPROPYLTOLUENE | 17.254 | 134 | 155297 | 10.30 | PPBV | | 91 |
| 104) | N-BUTYLBENZENE | 17.598 | 134 | 147872 | 10.41 | PPBV | | 95 |
| 105) | HEXACHLOROETHANE | 17.778 | 117 | 176075 | 10.07 | PPBV | # | 80 |
| 106) | HEXACHLOROBUTADIENE | 18.816 | 225 | 266022 | 10.22 | PPBV | | 99 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.511 | 180 | 348306 | 11.44 | PPBV | | 99 |
| 108) | NAPHTHALENE | 18.559 | 128 | 803506 | 10.62 | PPBV | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25441.D
Acq On : 11 Aug 2022 10:25 am
Operator : thomash
Sample : bsd
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 14:25:52 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/27/22 15:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61612.D
Acq On : 27 Sep 2022 8:57 am
Operator : thomash
Sample : bs
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:41:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.612 | 128 | 79585 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 440838 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 389034 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.962 | 95 | 260732 | 10.07 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.850 | 65 | 68688m | 10.27 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.869 | 67 | 29762 | 10.01 | PPBV | | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.882 | 116 | 160798 | 9.35 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.904 | 85 | 393250 | 9.93 | PPBV | | 99 |
| 7) PROPYLENE | 1.879 | 41 | 60754 | 8.13 | PPBV | | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.952 | 65 | 311971 | 10.47 | PPBV | | 97 |
| 9) FREON 114 | 2.001 | 85 | 370257 | 10.38 | PPBV | | 95 |
| 10) CHLOROMETHANE | 1.962 | 52 | 35752 | 8.97 | PPBV | | 98 |
| 11) VINYL CHLORIDE | 2.042 | 62 | 152725 | 11.03 | PPBV | | 99 |
| 12) 1,3-BUTADIENE | 2.094 | 54 | 103050 | 9.63 | PPBV | | 97 |
| 13) N-BUTANE | 2.116 | 43 | 158491 | 8.51 | PPBV | | 96 |
| 14) BROMOMETHANE | 2.194 | 94 | 123917 | 9.90 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.258 | 64 | 85080 | 11.48 | PPBV | | 95 |
| 16) DICHLOROFLUOROMETHANE | 2.290 | 67 | 316360 | 10.73 | PPBV | | 98 |
| 17) ACETONITRILE | 2.377 | 41 | 98668 | 8.91 | PPBV | | 99 |
| 18) ACROLEIN | 2.422 | 56 | 70977 | 14.52 | PPBV | | 100 |
| 19) FREON 123 | 2.438 | 83 | 355401 | 10.85 | PPBV | | 99 |
| 20) FREON 123A | 2.457 | 117 | 194247 | 10.25 | PPBV | | 88 |
| 21) TRICHLOROFLUOROMETHANE | 2.522 | 101 | 448615 | 10.89 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.538 | 45 | 311644 | 9.48 | PPBV | | 98 |
| 23) ACETONE | 2.464 | 58 | 88249 | 8.41 | PPBV | | 92 |
| 24) PENTANE | 2.634 | 42 | 181954 | 10.10 | PPBV | | 99 |
| 25) IODOMETHANE | 2.689 | 142 | 415751 | 10.32 | PPBV | | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.714 | 96 | 175910 | 11.12 | PPBV | | 90 |
| 27) CARBON DISULFIDE | 2.846 | 76 | 580811 | 12.20 | PPBV | | 97 |
| 28) ETHANOL | 2.293 | 45 | 48682 | 7.52 | PPBV | | 98 |
| 29) BROMOETHENE | 2.387 | 106 | 136855 | 10.71 | PPBV | | 96 |
| 30) ACRYLONITRILE | 2.605 | 52 | 134217 | 10.80 | PPBV | | 99 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 171320 | 9.76 | PPBV | | 92 |
| 32) 3-CHLOROPROPENE | 2.792 | 76 | 90188 | 11.11 | PPBV | | 86 |
| 33) FREON 113 | 2.846 | 151 | 278333 | 10.44 | PPBV | | 90 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 134870 | 10.24 | PPBV | | 94 |
| 35) TERTIARY BUTYL ALCOHOL | 2.724 | 59 | 418203 | 10.09 | PPBV | # | 91 |
| 36) METHYL TERTIARY BUTYL ... | 3.190 | 73 | 319743 | 9.37 | PPBV | | 98 |
| 37) TETRAHYDROFURAN | 3.904 | 72 | 63828 | 11.10 | PPBV | | 86 |
| 38) HEXANE | 3.666 | 57 | 233155 | 10.14 | PPBV | | 95 |
| 39) VINYL ACETATE | 3.229 | 86 | 35635 | 10.99 | PPBV | | 69 |
| 40) 1,1-DICHLOROETHANE | 3.158 | 63 | 260509 | 11.05 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.329 | 72 | 65776 | 11.22 | PPBV | | 74 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 139213 | 9.85 | PPBV | | 93 |
| 43) DIISOPROPYL ETHER | 3.666 | 59 | 72210 | 10.72 | PPBV | | 64 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61612.D
Acq On : 27 Sep 2022 8:57 am
Operator : thomash
Sample : bs
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:41:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.673 | 61 | 51825 | 11.00 | PPBV | | 61 |
| 45) METHYL ACRYLATE | 3.660 | 55 | 275746 | 10.20 | PPBV | # | 98 |
| 46) CHLOROFORM | 3.689 | 83 | 293663 | 10.20 | PPBV | | 99 |
| 47) 2,4-DIMETHYLPENTANE | 4.197 | 57 | 265416 | 9.90 | PPBV | | 99 |
| 48) 1,1,1-TRICHLOROETHANE | 4.277 | 97 | 276366 | 9.62 | PPBV | | 96 |
| 49) CARBON TETRACHLORIDE | 4.711 | 117 | 282853 | 9.94 | PPBV | | 97 |
| 50) 1,2-DICHLOROETHANE | 4.110 | 62 | 208995 | 10.71 | PPBV | | 99 |
| 51) BENZENE | 4.599 | 78 | 419932 | 10.21 | PPBV | | 95 |
| 53) CYCLOHEXANE | 4.811 | 84 | 179357 | 9.64 | PPBV | | 100 |
| 54) 2,3-DIMETHYLPENTANE | 5.075 | 71 | 91017 | 9.96 | PPBV | | 98 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 187118 | 10.01 | PPBV | | 96 |
| 56) 1,2-DICHLOROPROPANE | 5.277 | 63 | 175289 | 10.42 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.239 | 174 | 170172 | 8.85 | PPBV | | 95 |
| 58) ETHYL ACRYLATE | 5.396 | 55 | 327084 | 10.34 | PPBV | | 99 |
| 59) BROMODICHLOROMETHANE | 5.464 | 83 | 314671 | 10.20 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 715284 | 9.60 | PPBV | | 99 |
| 61) 1,4-DIOXANE | 5.521 | 88 | 98933 | 10.96 | PPBV | | 98 |
| 62) HEPTANE | 5.936 | 43 | 196778 | 8.39 | PPBV | | 89 |
| 63) METHYL METHACRYLATE | 5.827 | 69 | 152720 | 10.63 | PPBV | | 92 |
| 64) METHYL ISOBUTYL KETONE | 6.566 | 58 | 140309 | 11.70 | PPBV | | 88 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.473 | 75 | 222200 | 9.97 | PPBV | | 96 |
| 66) TOLUENE | 7.698 | 91 | 516983 | 9.73 | PPBV | | 98 |
| 67) 1,3-DICHLOROPROPANE | 7.756 | 76 | 255621 | 10.12 | PPBV | | 99 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.158 | 75 | 191900 | 9.60 | PPBV | | 96 |
| 69) 1,1,2-TRICHLOROETHANE | 7.319 | 83 | 151662 | 9.74 | PPBV | | 98 |
| 70) 2-HEXANONE | 8.261 | 58 | 182465 | 10.87 | PPBV | | 88 |
| 71) ETHYL METHACRYLATE | 8.399 | 69 | 248643 | 11.87 | PPBV | | 94 |
| 72) TETRACHLOROETHENE | 9.444 | 164 | 189575 | 8.91 | PPBV | | 99 |
| 73) DIBROMOCHLOROMETHANE | 8.235 | 129 | 299944 | 9.89 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.582 | 107 | 274662 | 9.69 | PPBV | | 99 |
| 75) OCTANE | 9.589 | 43 | 272886 | 8.66 | PPBV | | 92 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.672 | 131 | 205645 | 9.76 | PPBV | | 97 |
| 78) CHLOROBENZENE | 10.663 | 112 | 397708 | 9.51 | PPBV | | 97 |
| 79) ETHYLBENZENE | 11.547 | 91 | 688008 | 10.32 | PPBV | | 97 |
| 80) M,P-XYLENE | 11.978 | 91 | 1056278 | 20.84 | PPBV | | 96 |
| 81) O-XYLENE | 12.917 | 91 | 538312 | 10.39 | PPBV | | 95 |
| 82) STYRENE | 12.701 | 104 | 413388 | 11.15 | PPBV | | 99 |
| 83) NONANE | 14.029 | 43 | 286960 | 8.97 | PPBV | | 89 |
| 84) BROMOFORM | 11.791 | 173 | 293256 | 10.94 | PPBV | | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.923 | 83 | 403665 | 10.47 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.212 | 75 | 295579 | 10.45 | PPBV | | 100 |
| 88) ISOPROPYLBENZENE | 14.431 | 120 | 188318 | 8.57 | PPBV | | 91 |
| 89) BROMOBENZENE | 14.302 | 77 | 368033 | 10.26 | PPBV | | 94 |
| 90) 2-CHLOROTOLUENE | 15.441 | 126 | 175611 | 9.52 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.778 | 120 | 196885 | 9.75 | PPBV | | 98 |
| 92) 4-ETHYLTOLUENE | 16.145 | 105 | 781563 | 10.51 | PPBV | | 95 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.302 | 105 | 643991 | 10.38 | PPBV | | 96 |
| 94) ALPHA-METHYLSTYRENE | 16.502 | 118 | 330432 | 12.66 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.762 | 134 | 153107 | 9.64 | PPBV | | 99 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.769 | 105 | 692287 | 10.44 | PPBV | | 92 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61612.D
Acq On : 27 Sep 2022 8:57 am
Operator : thomash
Sample : bs
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:41:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

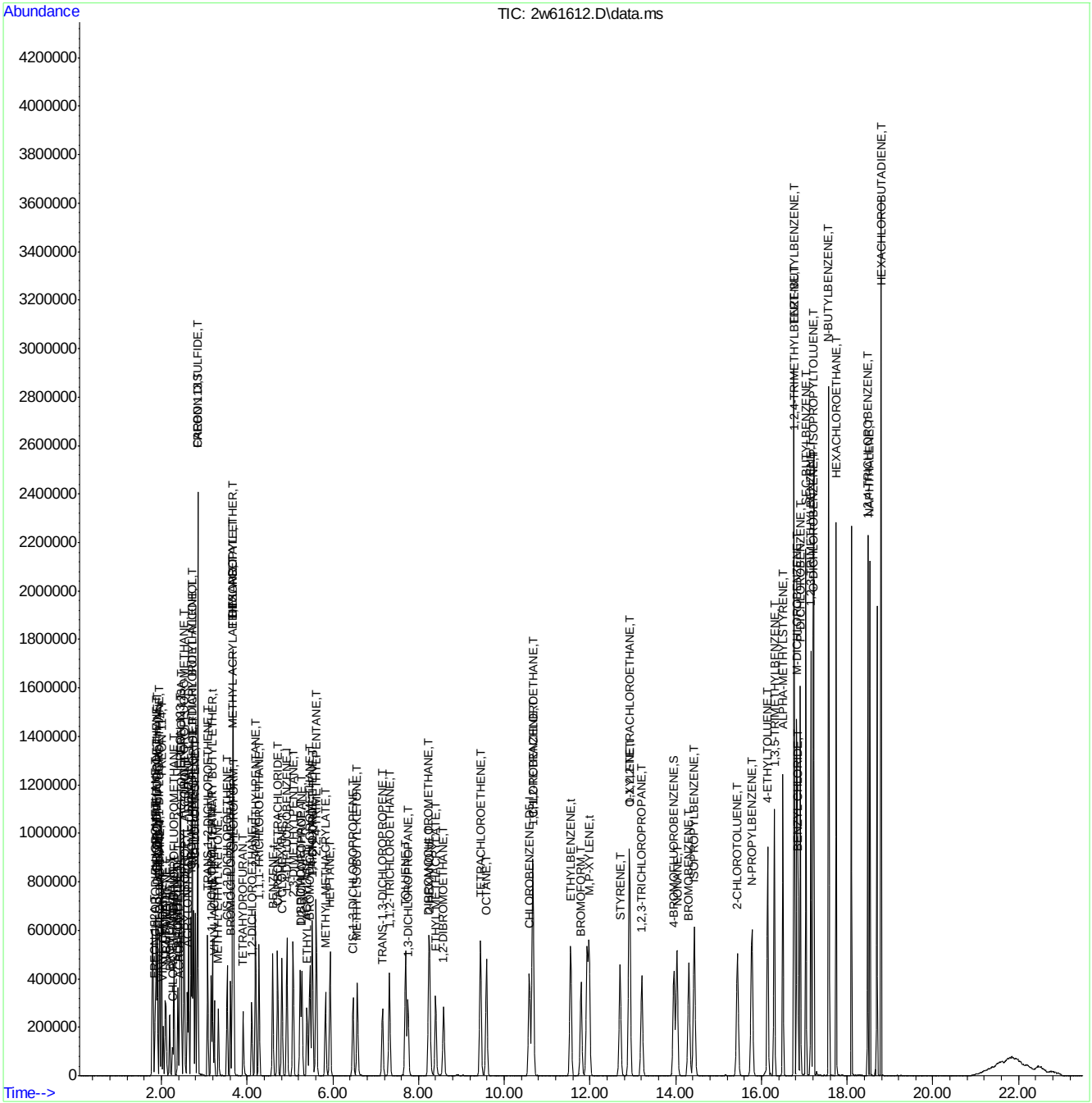
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.849 | 91 | 349632 | 8.51 | PPBV | 96 |
| 98) | M-DICHLOROBENZENE | 16.826 | 146 | 434375 | 9.96 | PPBV | 99 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 440094 | 9.96 | PPBV | 100 |
| 100) | O-DICHLOROBENZENE | 17.203 | 146 | 422950 | 9.85 | PPBV | 99 |
| 101) | SEC-BUTYLBENZENE | 17.039 | 134 | 194376 | 9.85 | PPBV | 89 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 666712 | 10.63 | PPBV | 96 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 212729 | 9.79 | PPBV | 99 |
| 104) | N-BUTYLBENZENE | 17.566 | 134 | 197230 | 9.81 | PPBV | 81 |
| 105) | HEXACHLOROETHANE | 17.746 | 117 | 256812 | 10.43 | PPBV | 96 |
| 106) | HEXACHLOROBUTADIENE | 18.791 | 225 | 313360 | 9.31 | PPBV | 99 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.482 | 180 | 351058 | 9.88 | PPBV | 98 |
| 108) | NAPHTHALENE | 18.531 | 128 | 867975 | 9.56 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61612.D
Acq On : 27 Sep 2022 8:57 am
Operator : thomash
Sample : bs
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:41:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V2W2734-BS
**Lab FileID:** 2W61612.D
**Injection Time:** 09/27/22 08:57

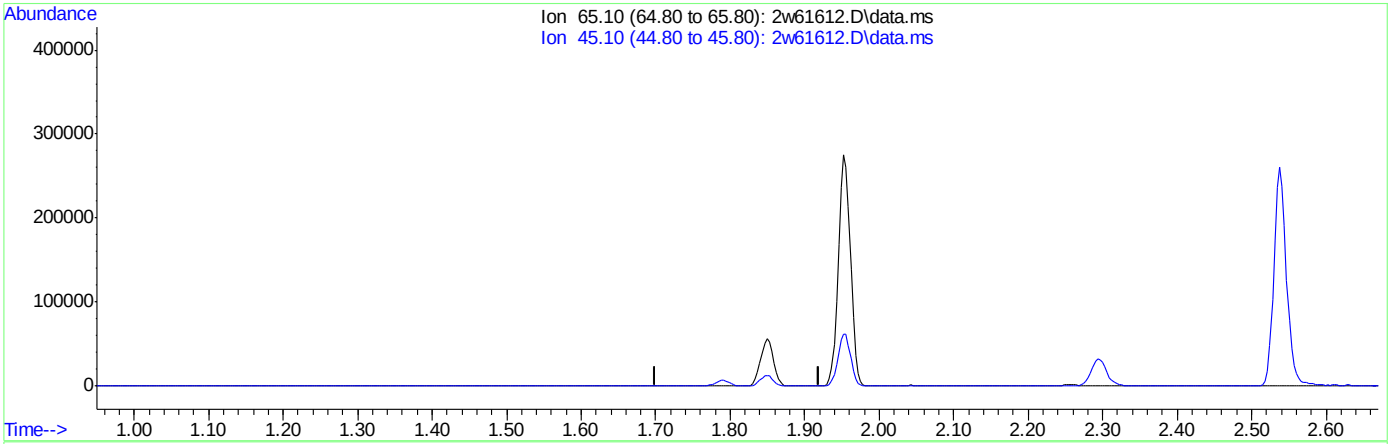
**Method:** TO-15
**Analyst approved:** 09/27/22 10:42 Thomas Hilbig
**Supervisor approved:** 09/27/22 15:04 Kanya Veerawat

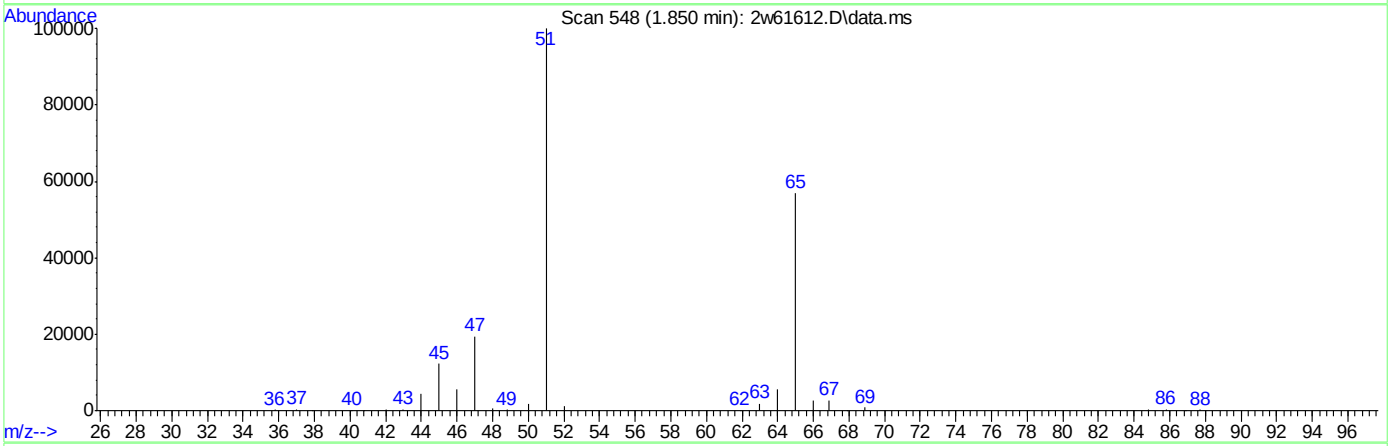
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.85 | Missed peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61612.D
Acq On : 27 Sep 2022 8:57 am
Operator : thomash
Sample : bs
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 09:47:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61612.D\data.ms

(3) FREON 152A (T)

1.850min (-1.850) 0.00PPBV

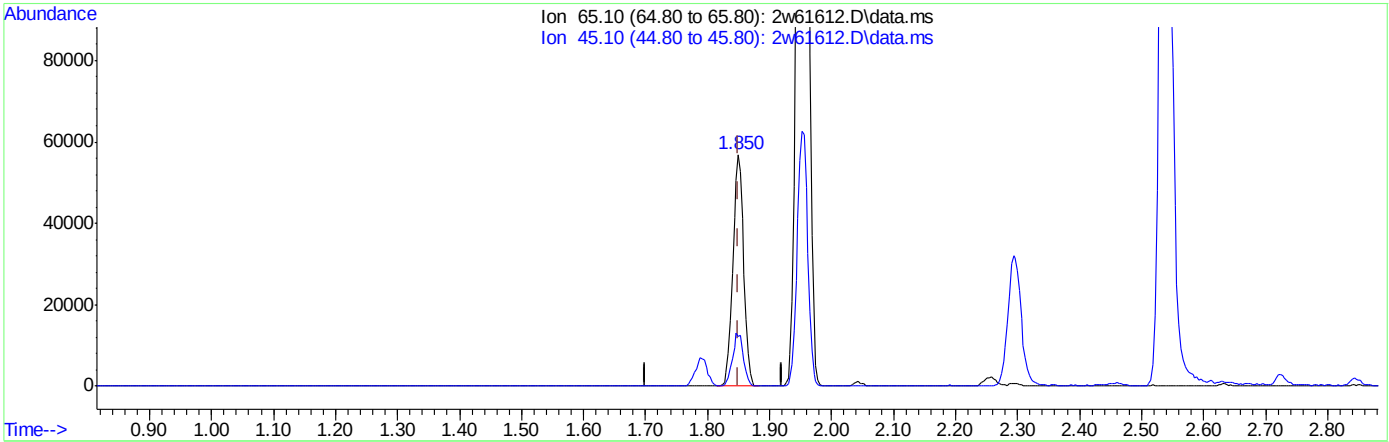
response 0

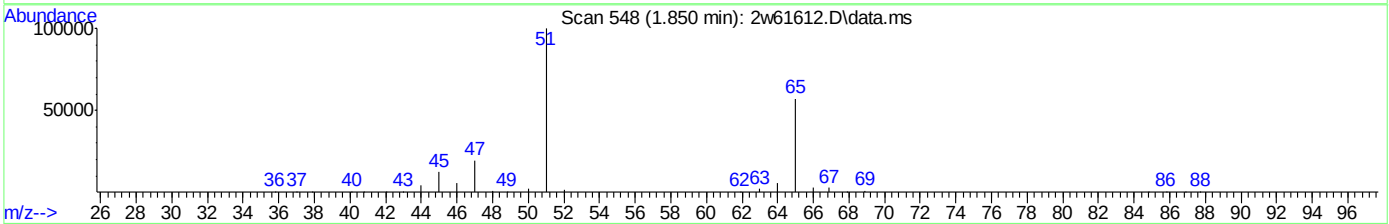
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 0.00 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

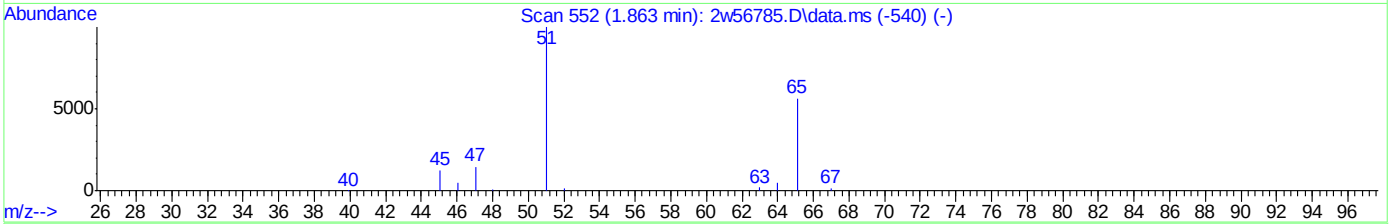
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61612.D
Acq On : 27 Sep 2022 8:57 am
Operator : thomash
Sample : bs
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 09:47:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61612.D\data.ms

(3) FREON 152A (T)

1.850min (-0.000) 10.27PPBV m

response 68688

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61613.D
Acq On : 27 Sep 2022 9:29 am
Operator : thomash
Sample : bsd
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:37:26 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.608 | 128 | 86056 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.926 | 114 | 462656 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.589 | 117 | 409400 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.961 | 95 | 271991 | 9.98 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.843 | 65 | 69381 | 9.59 | PPBV | # | 100 |
| 4) CHLORODIFLUOROMETHANE | 1.859 | 67 | 31230 | 9.72 | PPBV | | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.875 | 116 | 164502 | 8.85 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.898 | 85 | 404350 | 9.44 | PPBV | | 99 |
| 7) PROPYLENE | 1.872 | 41 | 62546 | 7.74 | PPBV | | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.946 | 65 | 322591 | 10.01 | PPBV | | 96 |
| 9) FREON 114 | 1.994 | 85 | 374151 | 9.70 | PPBV | | 95 |
| 10) CHLOROMETHANE | 1.956 | 52 | 35706 | 8.28 | PPBV | | 99 |
| 11) VINYL CHLORIDE | 2.036 | 62 | 156903 | 10.48 | PPBV | | 100 |
| 12) 1,3-BUTADIENE | 2.087 | 54 | 104190 | 9.01 | PPBV | | 97 |
| 13) N-BUTANE | 2.107 | 43 | 163144 | 8.10 | PPBV | | 96 |
| 14) BROMOMETHANE | 2.187 | 94 | 126803 | 9.37 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.248 | 64 | 85845 | 10.71 | PPBV | # | 93 |
| 16) DICHLOROFLUOROMETHANE | 2.284 | 67 | 319823 | 10.03 | PPBV | | 99 |
| 17) ACETONITRILE | 2.370 | 41 | 100693 | 8.41 | PPBV | | 99 |
| 18) ACROLEIN | 2.415 | 56 | 71621 | 13.55 | PPBV | | 99 |
| 19) FREON 123 | 2.431 | 83 | 356143 | 10.05 | PPBV | | 99 |
| 20) FREON 123A | 2.451 | 117 | 197232 | 9.62 | PPBV | | 90 |
| 21) TRICHLOROFLUOROMETHANE | 2.518 | 101 | 453700 | 10.18 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.531 | 45 | 315266 | 8.87 | PPBV | | 98 |
| 23) ACETONE | 2.457 | 58 | 90008 | 7.94 | PPBV | | 90 |
| 24) PENTANE | 2.628 | 42 | 186375 | 9.57 | PPBV | | 98 |
| 25) IODOMETHANE | 2.685 | 142 | 420310 | 9.65 | PPBV | | 99 |
| 26) 1,1-DICHLOROETHYLENE | 2.711 | 96 | 180119 | 10.53 | PPBV | | 88 |
| 27) CARBON DISULFIDE | 2.840 | 76 | 578858 | 11.24 | PPBV | | 97 |
| 28) ETHANOL | 2.287 | 45 | 49217 | 7.03 | PPBV | | 98 |
| 29) BROMOETHENE | 2.380 | 106 | 136977 | 9.91 | PPBV | | 97 |
| 30) ACRYLONITRILE | 2.599 | 52 | 136258 | 10.14 | PPBV | | 99 |
| 31) METHYLENE CHLORIDE | 2.747 | 84 | 172616 | 9.10 | PPBV | | 94 |
| 32) 3-CHLOROPROPENE | 2.785 | 76 | 91301 | 10.41 | PPBV | | 87 |
| 33) FREON 113 | 2.840 | 151 | 283806 | 9.85 | PPBV | | 91 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.074 | 96 | 137685 | 9.67 | PPBV | | 93 |
| 35) TERTIARY BUTYL ALCOHOL | 2.718 | 59 | 429618 | 9.59 | PPBV | # | 91 |
| 36) METHYL TERTIARY BUTYL ... | 3.187 | 73 | 333112 | 9.03 | PPBV | | 98 |
| 37) TETRAHYDROFURAN | 3.901 | 72 | 65067 | 10.46 | PPBV | | 87 |
| 38) HEXANE | 3.663 | 57 | 240327 | 9.66 | PPBV | | 93 |
| 39) VINYL ACETATE | 3.229 | 86 | 36417 | 10.39 | PPBV | | 69 |
| 40) 1,1-DICHLOROETHANE | 3.155 | 63 | 266834 | 10.47 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.325 | 72 | 68129 | 10.75 | PPBV | | 76 |
| 42) CIS-1,2-DICHLOROETHENE | 3.531 | 96 | 143454 | 9.39 | PPBV | | 93 |
| 43) DIISOPROPYL ETHER | 3.666 | 59 | 73364 | 10.07 | PPBV | | 66 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61613.D
Acq On : 27 Sep 2022 9:29 am
Operator : thomash
Sample : bsd
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:37:26 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 44) | ETHYL ACETATE | 3.669 | 61 | 52965 | 10.39 | PPBV | | 63 |
| 45) | METHYL ACRYLATE | 3.656 | 55 | 283060 | 9.68 | PPBV | # | 98 |
| 46) | CHLOROFORM | 3.685 | 83 | 301392 | 9.68 | PPBV | | 98 |
| 47) | 2,4-DIMETHYLPENTANE | 4.193 | 57 | 276628 | 9.55 | PPBV | | 98 |
| 48) | 1,1,1-TRICHLOROETHANE | 4.274 | 97 | 284208 | 9.15 | PPBV | | 96 |
| 49) | CARBON TETRACHLORIDE | 4.711 | 117 | 289904 | 9.42 | PPBV | | 96 |
| 50) | 1,2-DICHLOROETHANE | 4.107 | 62 | 214760 | 10.18 | PPBV | | 99 |
| 51) | BENZENE | 4.595 | 78 | 433405 | 9.75 | PPBV | | 95 |
| 53) | CYCLOHEXANE | 4.811 | 84 | 182879 | 9.37 | PPBV | | 100 |
| 54) | 2,3-DIMETHYLPENTANE | 5.071 | 71 | 93672 | 9.77 | PPBV | | 96 |
| 55) | TRICHLOROETHENE | 5.515 | 95 | 192022 | 9.79 | PPBV | | 96 |
| 56) | 1,2-DICHLOROPROPANE | 5.280 | 63 | 178859 | 10.13 | PPBV | | 97 |
| 57) | DIBROMOMETHANE | 5.238 | 174 | 175601 | 8.70 | PPBV | | 95 |
| 58) | ETHYL ACRYLATE | 5.393 | 55 | 338175 | 10.19 | PPBV | | 99 |
| 59) | BROMODICHLOROMETHANE | 5.460 | 83 | 318836 | 9.85 | PPBV | | 99 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.611 | 57 | 736546 | 9.42 | PPBV | | 99 |
| 61) | 1,4-DIOXANE | 5.525 | 88 | 101994 | 10.76 | PPBV | | 98 |
| 62) | HEPTANE | 5.933 | 43 | 201241 | 8.18 | PPBV | | 88 |
| 63) | METHYL METHACRYLATE | 5.827 | 69 | 157668 | 10.45 | PPBV | | 91 |
| 64) | METHYL ISOBUTYL KETONE | 6.573 | 58 | 140838 | 11.19 | PPBV | | 90 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.470 | 75 | 230737 | 9.86 | PPBV | | 95 |
| 66) | TOLUENE | 7.698 | 91 | 526360 | 9.44 | PPBV | | 99 |
| 67) | 1,3-DICHLOROPROPANE | 7.756 | 76 | 257601 | 9.72 | PPBV | | 98 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.158 | 75 | 198229 | 9.45 | PPBV | | 96 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.322 | 83 | 155852 | 9.54 | PPBV | | 98 |
| 70) | 2-HEXANONE | 8.261 | 58 | 187238 | 10.64 | PPBV | | 88 |
| 71) | ETHYL METHACRYLATE | 8.396 | 69 | 255210 | 11.61 | PPBV | | 94 |
| 72) | TETRACHLOROETHENE | 9.447 | 164 | 196166 | 8.78 | PPBV | | 99 |
| 73) | DIBROMOCHLOROMETHANE | 8.238 | 129 | 308478 | 9.69 | PPBV | | 99 |
| 74) | 1,2-DIBROMOETHANE | 8.589 | 107 | 278747 | 9.37 | PPBV | | 100 |
| 75) | OCTANE | 9.589 | 43 | 278341 | 8.42 | PPBV | | 92 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.672 | 131 | 208313 | 9.39 | PPBV | | 97 |
| 78) | CHLOROBENZENE | 10.663 | 112 | 404792 | 9.20 | PPBV | | 96 |
| 79) | ETHYLBENZENE | 11.550 | 91 | 698627 | 9.96 | PPBV | | 98 |
| 80) | M,P-XYLENE | 11.984 | 91 | 1072444 | 20.10 | PPBV | | 98 |
| 81) | O-XYLENE | 12.923 | 91 | 544946 | 9.99 | PPBV | | 93 |
| 82) | STYRENE | 12.704 | 104 | 413312 | 10.59 | PPBV | | 98 |
| 83) | NONANE | 14.032 | 43 | 295750 | 8.78 | PPBV | | 91 |
| 84) | BROMOFORM | 11.791 | 173 | 297373 | 10.54 | PPBV | | 98 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 12.926 | 83 | 411998 | 10.15 | PPBV | | 100 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.212 | 75 | 302843 | 10.17 | PPBV | # | 100 |
| 88) | ISOPROPYLBENZENE | 14.434 | 120 | 192804 | 8.34 | PPBV | | 92 |
| 89) | BROMOBENZENE | 14.306 | 77 | 377453 | 10.00 | PPBV | | 93 |
| 90) | 2-CHLOROTOLUENE | 15.447 | 126 | 178395 | 9.19 | PPBV | | 98 |
| 91) | N-PROPYLBENZENE | 15.778 | 120 | 199581 | 9.40 | PPBV | | 97 |
| 92) | 4-ETHYLTOLUENE | 16.145 | 105 | 796429 | 10.18 | PPBV | | 96 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.302 | 105 | 663399 | 10.16 | PPBV | | 95 |
| 94) | ALPHA-METHYLSTYRENE | 16.502 | 118 | 335586 | 12.22 | PPBV | | 99 |
| 95) | TERT-BUTYLBENZENE | 16.759 | 134 | 154037 | 9.22 | PPBV | | 97 |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.768 | 105 | 716826 | 10.27 | PPBV | | 91 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61613.D
Acq On : 27 Sep 2022 9:29 am
Operator : thomash
Sample : bsd
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:37:26 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

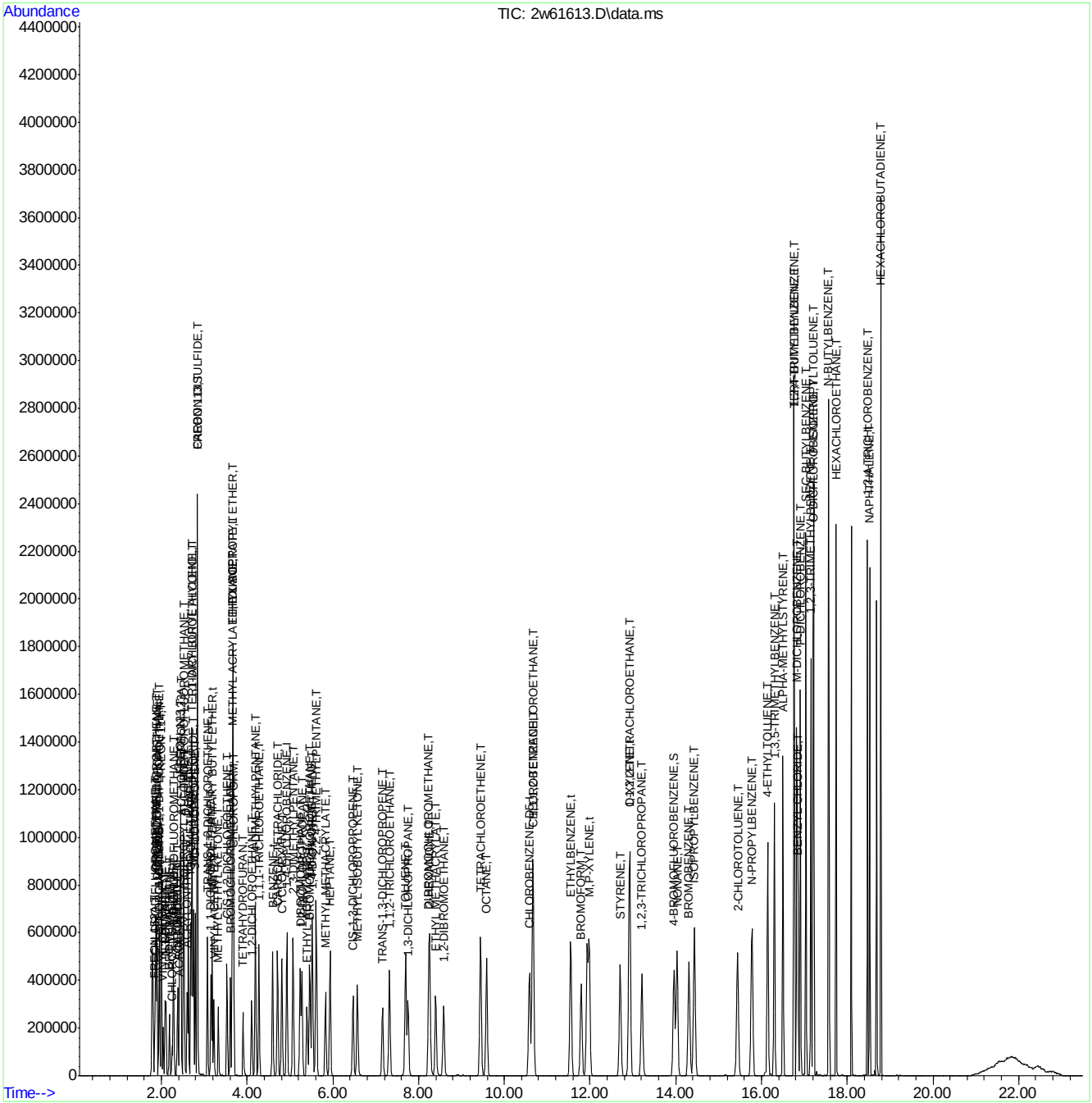
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 97) BENZYL CHLORIDE | 16.852 | 91 | 355102 | 8.22 | PPBV | 96 |
| 98) M-DICHLOROBENZENE | 16.826 | 146 | 438643 | 9.56 | PPBV | 99 |
| 99) P-DICHLOROBENZENE | 16.910 | 146 | 445739 | 9.58 | PPBV | 100 |
| 100) O-DICHLOROBENZENE | 17.206 | 146 | 431486 | 9.55 | PPBV | 99 |
| 101) SEC-BUTYLBENZENE | 17.042 | 134 | 194282 | 9.36 | PPBV | 83 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 685393 | 10.38 | PPBV | 95 |
| 103) P-ISOPROPYLTOLUENE | 17.219 | 134 | 214071 | 9.36 | PPBV | 98 |
| 104) N-BUTYLBENZENE | 17.563 | 134 | 199795 | 9.45 | PPBV | 83 |
| 105) HEXACHLOROETHANE | 17.743 | 117 | 262437 | 10.13 | PPBV | 95 |
| 106) HEXACHLOROBUTADIENE | 18.784 | 225 | 314928 | 8.89 | PPBV | 100 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.476 | 180 | 348491 | 9.32 | PPBV | 99 |
| 108) NAPHTHALENE | 18.524 | 128 | 860563 | 9.01 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61613.D
Acq On : 27 Sep 2022 9:29 am
Operator : thomash
Sample : bsd
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:37:26 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/07/22 17:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26834.D
Acq On : 3 Nov 2022 5:26 pm
Operator : thomash
Sample : jd53652-1dup
Misc : MS63088,V6W1137,100,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 07 16:29:07 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

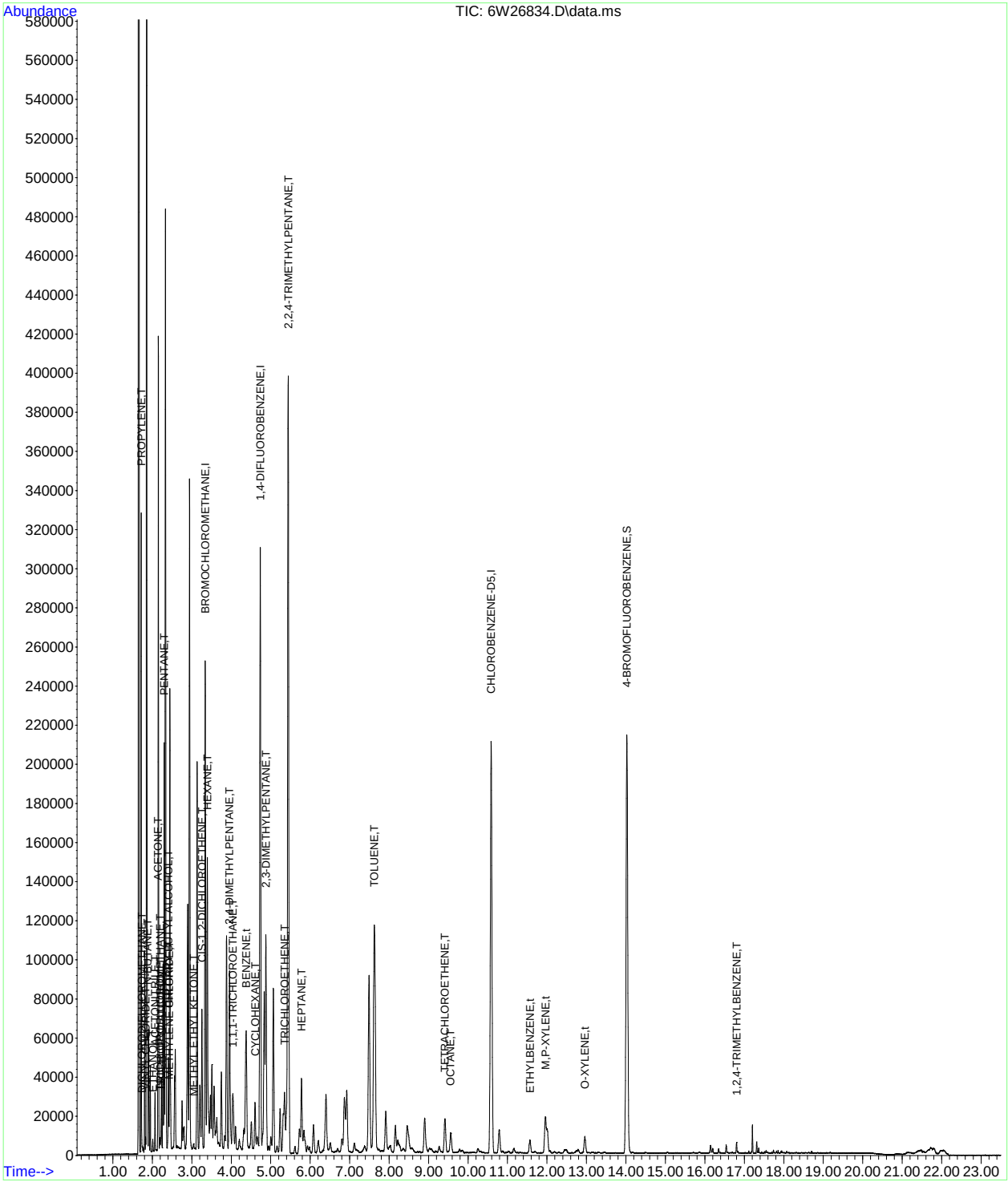
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.341 | 128 | 45425 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.737 | 114 | 228554 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 185306 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.023 | 95 | 127549 | 9.86 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 6) DICHLORODIFLUOROMETHANE | 1.734 | 85 | 1811 | 0.13 | PPBV | # | 92 |
| 7) PROPYLENE | 1.718 | 41 | 63927 | 10.98 | PPBV | | 91 |
| 11) VINYL CHLORIDE | 1.830 | 62 | 3346 | 0.54 | PPBV | # | 95 |
| 13) N-BUTANE | 1.882 | 43 | 22541 | 1.97 | PPBV | # | 91 |
| 17) ACETONITRILE | 2.068 | 41 | 3061 | 0.46 | PPBV | # | 43 |
| 21) TRICHLOROFLUOROMETHANE | 2.193 | 101 | 2340 | 0.16 | PPBV | # | 93 |
| 22) ISOPROPYL ALCOHOL | 2.216 | 45 | 4002 | 0.27 | PPBV | # | 66 |
| 23) ACETONE | 2.142 | 58 | 13678 | 4.07 | PPBV | # | 1 |
| 24) PENTANE | 2.300 | 42 | 41074 | 5.15 | PPBV | # | 93 |
| 28) ETHANOL | 2.010 | 45 | 3317 | 0.96 | PPBV | # | 92 |
| 31) METHYLENE CHLORIDE | 2.425 | 84 | 1374 | 0.24 | PPBV | # | 27 |
| 35) TERTIARY BUTYL ALCOHOL | 2.406 | 59 | 8780 | 0.72 | PPBV | # | 39 |
| 38) HEXANE | 3.393 | 57 | 49308 | 4.04 | PPBV | | 96 |
| 41) METHYL ETHYL KETONE | 3.049 | 72 | 384m | 0.13 | PPBV | | |
| 42) CIS-1,2-DICHLOROETHENE | 3.258 | 96 | 20969 | 3.18 | PPBV | # | 80 |
| 47) 2,4-DIMETHYLPENTANE | 3.955 | 57 | 29831 | 2.16 | PPBV | # | 91 |
| 48) 1,1,1-TRICHLOROETHANE | 4.042 | 97 | 8039 | 0.60 | PPBV | # | 88 |
| 51) BENZENE | 4.380 | 78 | 35277 | 1.74 | PPBV | | 69 |
| 53) CYCLOHEXANE | 4.605 | 84 | 6667 | 0.80 | PPBV | # | 50 |
| 54) 2,3-DIMETHYLPENTANE | 4.878 | 71 | 15777 | 3.48 | PPBV | # | 16 |
| 55) TRICHLOROETHENE | 5.351 | 95 | 6152 | 0.69 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.444 | 57 | 378437 | 10.01 | PPBV | # | 95 |
| 62) HEPTANE | 5.779 | 43 | 15832 | 1.04 | PPBV | # | 72 |
| 66) TOLUENE | 7.618 | 91 | 77160 | 3.05 | PPBV | | 100 |
| 72) TETRACHLOROETHENE | 9.412 | 164 | 5679 | 0.65 | PPBV | | 93 |
| 75) OCTANE | 9.556 | 43 | 4704 | 0.23 | PPBV | # | 72 |
| 79) ETHYLBENZENE | 11.566 | 91 | 8113 | 0.25 | PPBV | | 97 |
| 80) M,P-XYLENE | 11.958 | 91 | 28938 | 1.21 | PPBV | | 97 |
| 81) O-XYLENE | 12.958 | 91 | 8713 | 0.37 | PPBV | # | 87 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.801 | 105 | 2452 | 0.10 | PPBV | # | 24 |

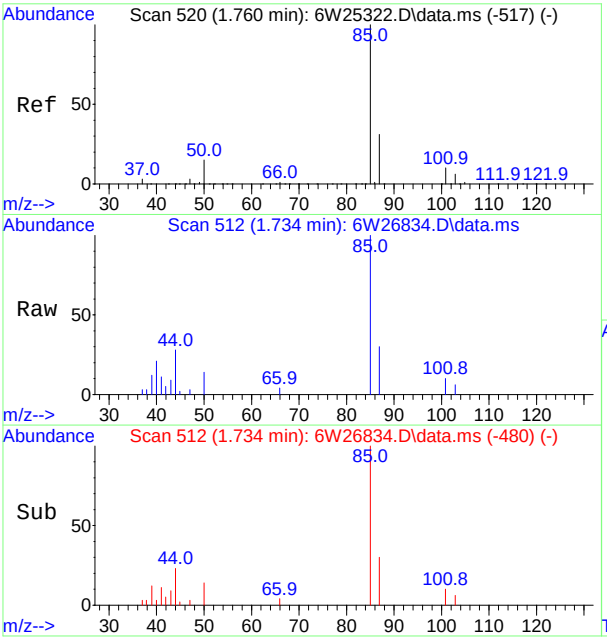
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26834.D
Acq On : 3 Nov 2022 5:26 pm
Operator : thomash
Sample : jd53652-1dup
Misc : MS63088,V6W1137,100,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 07 16:29:07 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

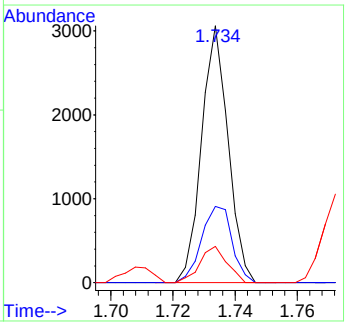


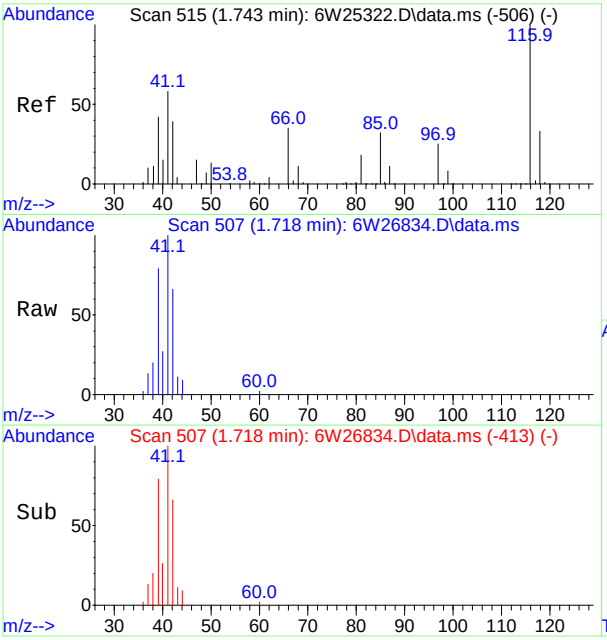



#6
DICHLORODIFLUOROMETHANE
Concen: 0.13 PPBV
RT: 1.734 min Scan# 512
Delta R.T. 0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 85 Resp: 1811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.2 | 25.8 | 38.6 |
| 50 | 0.0 | 7.4 | 11.2# |

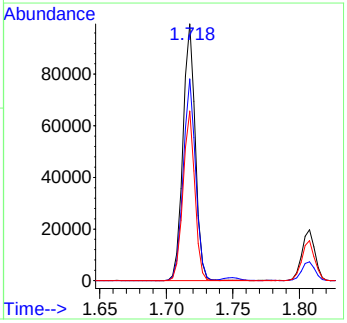


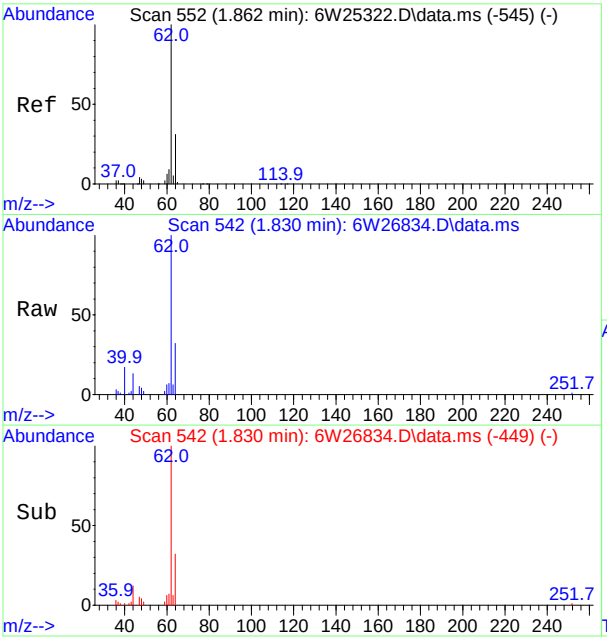




#7
PROPYLENE
Concen: 10.98 PPBV
RT: 1.718 min Scan# 507
Delta R.T. 0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 41 Resp: 63927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 79.2 | 54.6 | 81.8 |
| 42 | 63.3 | 53.8 | 80.6 |

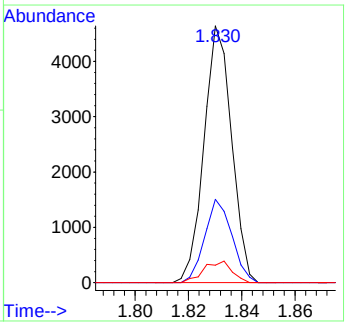


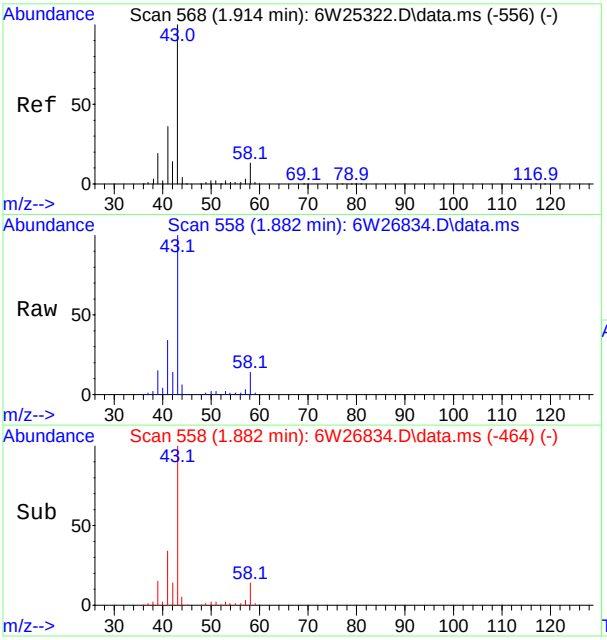



#11
VINYL CHLORIDE
Concen: 0.54 PPBV
RT: 1.830 min Scan# 542
Delta R.T. 0.000 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 62 Resp: 3346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.9 | 25.7 | 38.5 |
| 61 | 0.0 | 6.7 | 10.1# |

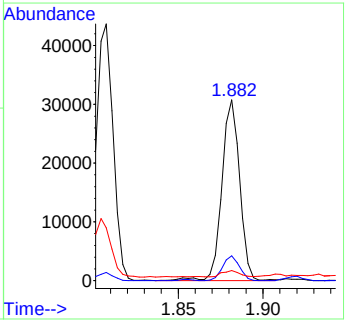


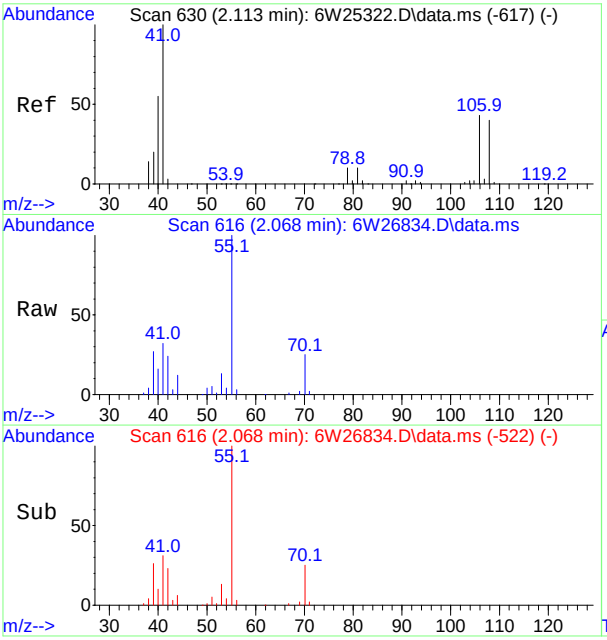




#13
N-BUTANE
Concen: 1.97 PPBV
RT: 1.882 min Scan# 558
Delta R.T. 0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 43 Resp: 22541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 13.5 | 14.2 | 21.2# |
| 44 | 3.2 | 4.2 | 6.4# |

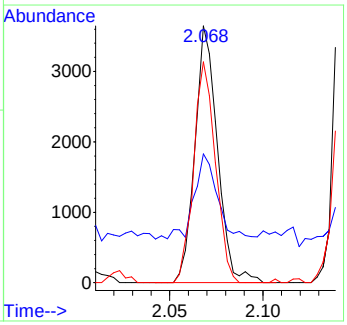


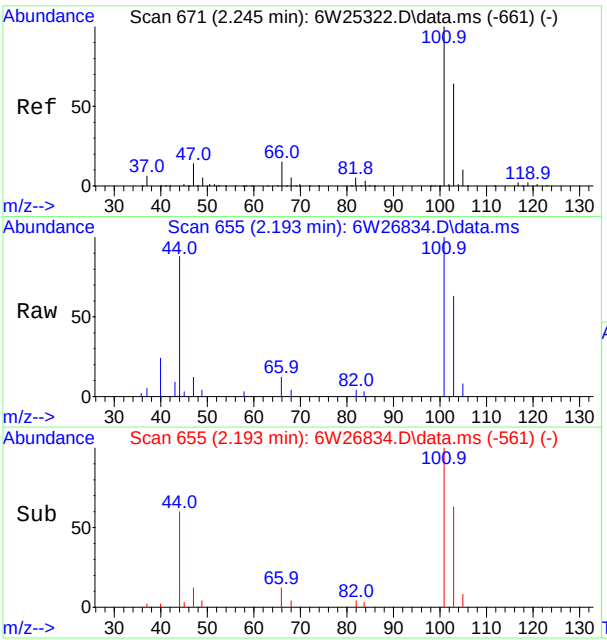



#17
ACETONITRILE
Concen: 0.46 PPBV
RT: 2.068 min Scan# 616
Delta R.T. 0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 41 Resp: 3061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 40 | 34.0 | 41.6 | 62.4# |
| 39 | 83.3 | 14.2 | 21.4# |

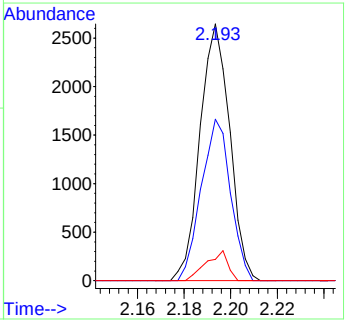


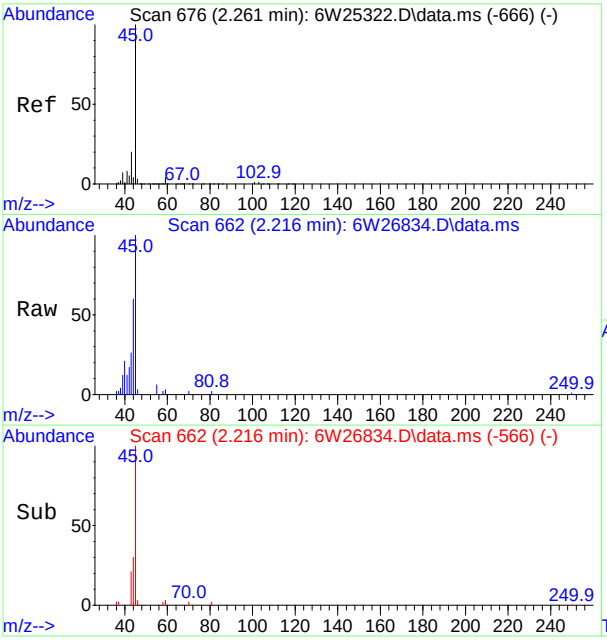




#21
TRICHLOROFLUOROMETHANE
Concen: 0.16 PPBV
RT: 2.193 min Scan# 655
Delta R.T. 0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion:101 Resp: 2340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.0 | 51.8 | 77.6 |
| 105 | 0.0 | 8.4 | 12.6# |

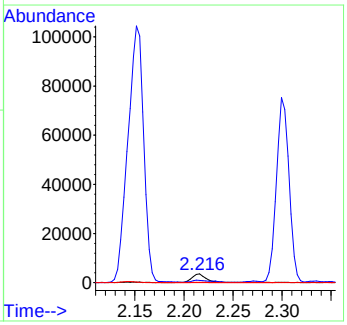


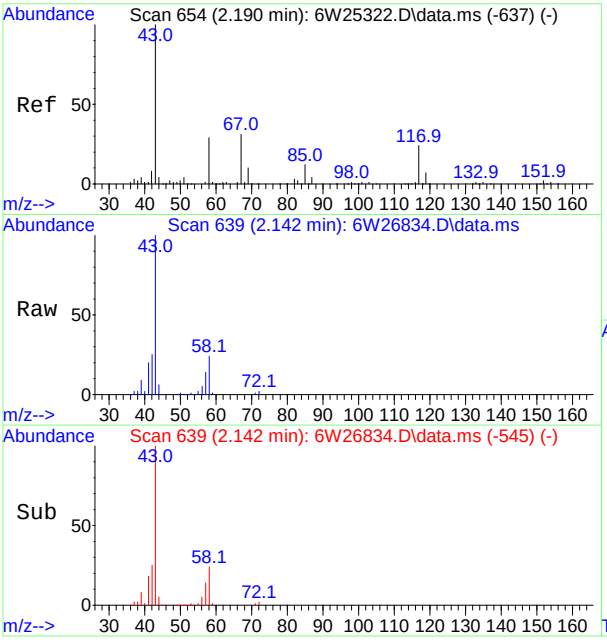



#22
ISOPROPYL ALCOHOL
Concen: 0.27 PPBV
RT: 2.216 min Scan# 662
Delta R.T. 0.010 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 45 Resp: 4002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 37.0 | 15.5 | 23.3# |
| 59 | 0.0 | 4.1 | 6.1# |

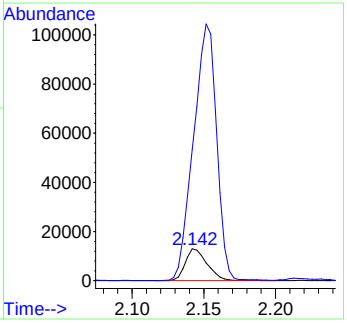


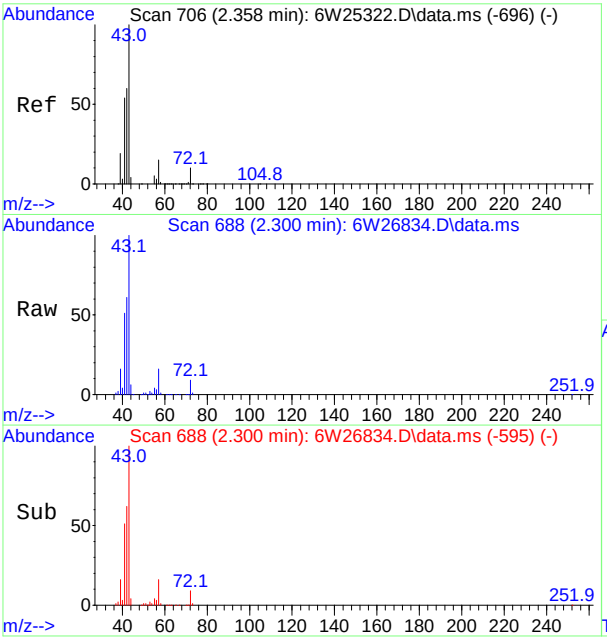




#23
ACETONE
Concen: 4.07 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 58 Resp: 13678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 856.5 | 195.9 | 293.9# |

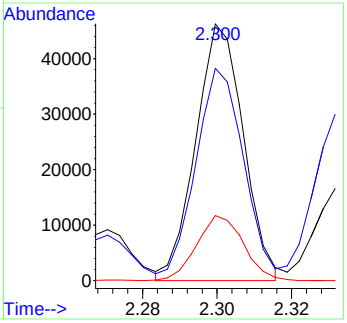


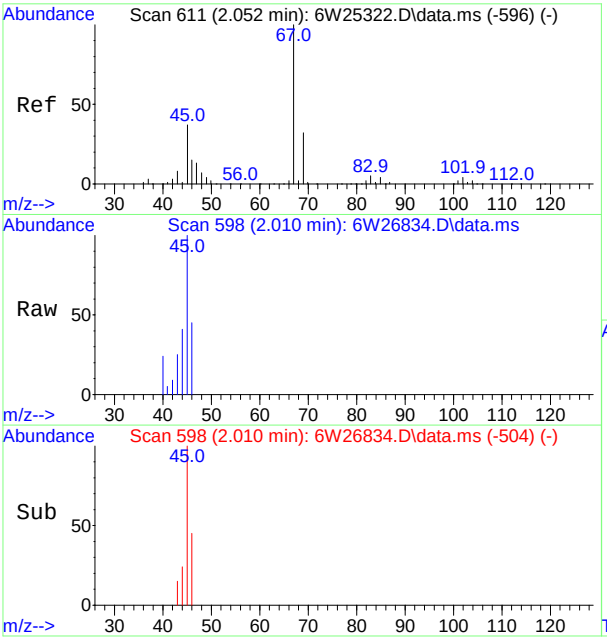



#24
PENTANE
Concen: 5.15 PPBV
RT: 2.300 min Scan# 688
Delta R.T. 0.000 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 42 Resp: 41074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 41 | 83.4 | 69.5 | 104.3 |
| 57 | 25.1 | 27.4 | 41.0# |

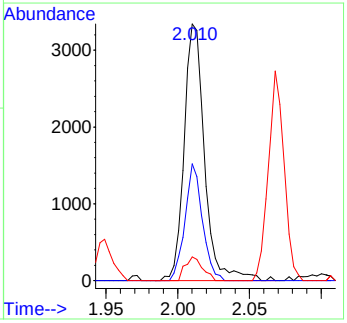


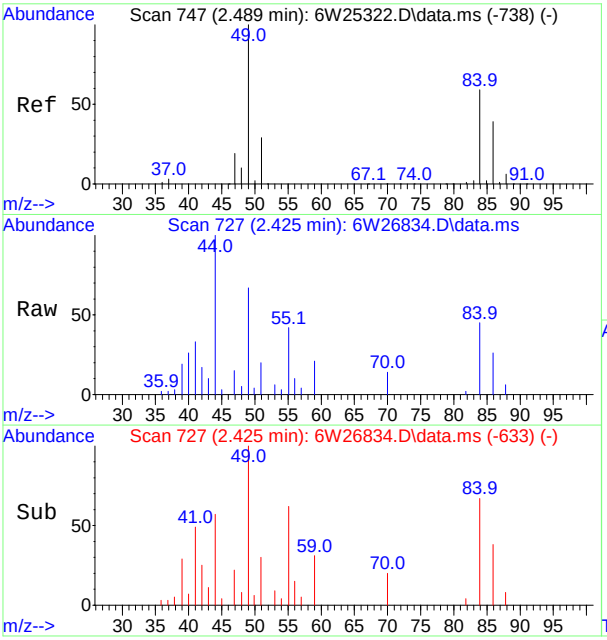




#28
ETHANOL
Concen: 0.96 PPBV
RT: 2.010 min Scan# 598
Delta R.T. 0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 45 Resp: 3317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 38.7 | 34.1 | 51.1 |
| 42 | 0.0 | 6.1 | 9.1# |

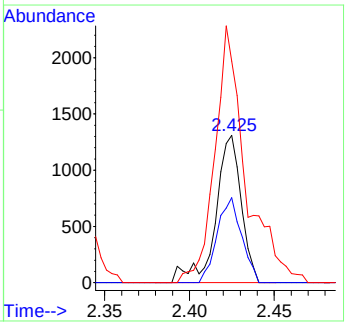


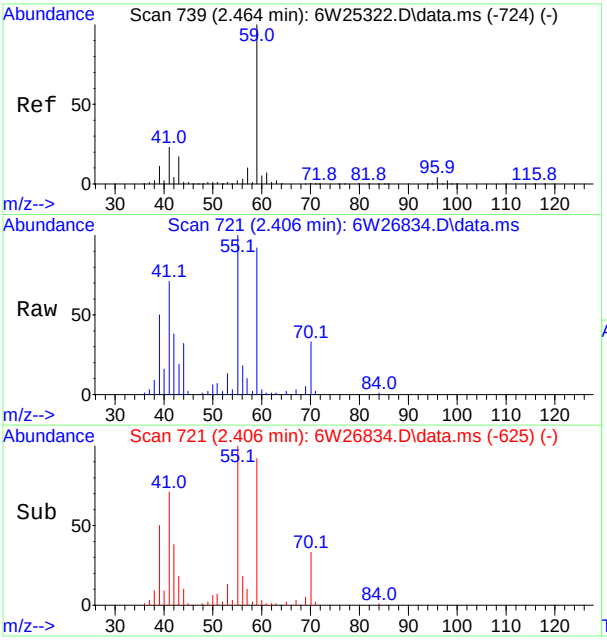



#31
METHYLENE CHLORIDE
Concen: 0.24 PPBV
RT: 2.425 min Scan# 727
Delta R.T. 0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 84 Resp: 1374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 55.2 | 50.9 | 76.3 |
| 49 | 210.7 | 78.6 | 118.0# |

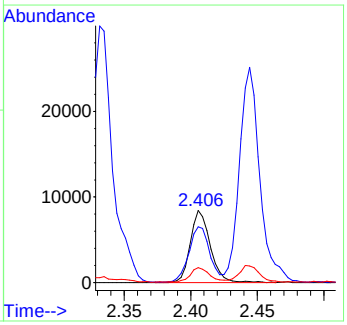


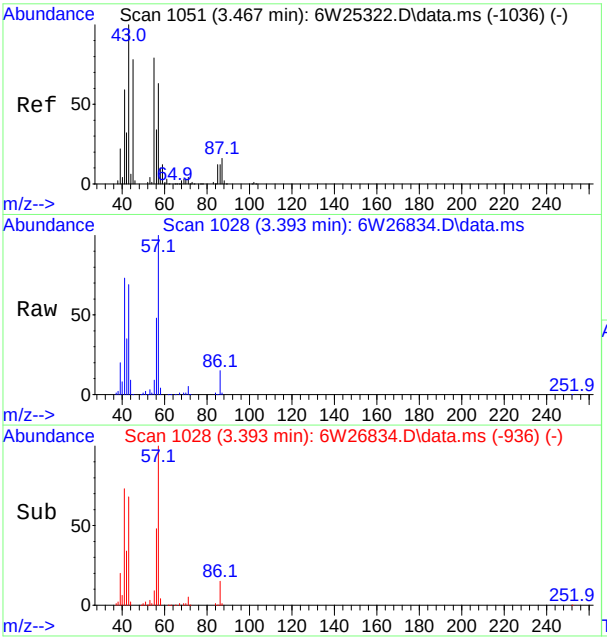




#35
TERTIARY BUTYL ALCOHOL
Concen: 0.72 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.010 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 59 Resp: 8780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 41 | 80.9 | 29.9 | 44.9# |
| 43 | 19.1 | 8.9 | 13.3# |

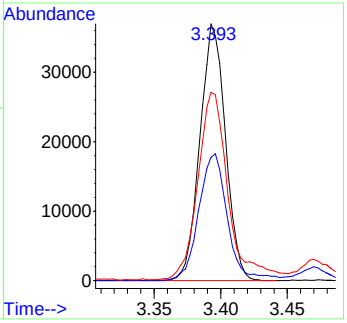


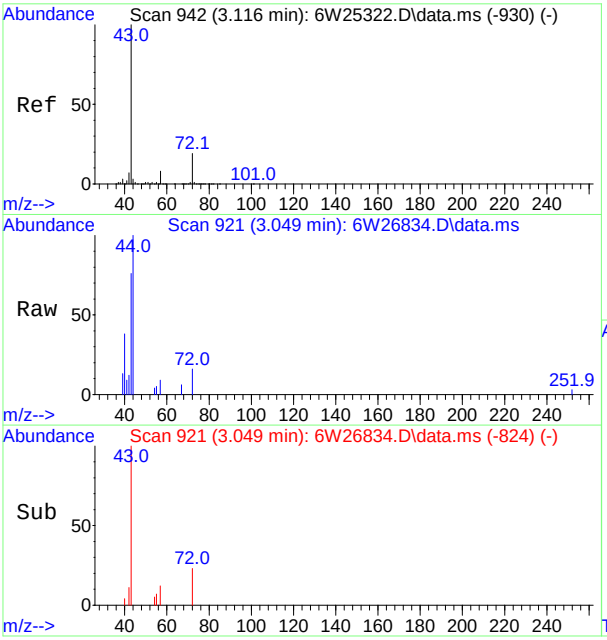



#38
HEXANE
Concen: 4.04 PPBV
RT: 3.393 min Scan# 1028
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 57 Resp: 49308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 56 | 55.7 | 42.0 | 63.0 |
| 41 | 86.4 | 66.2 | 99.2 |

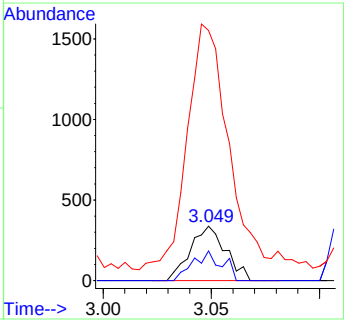


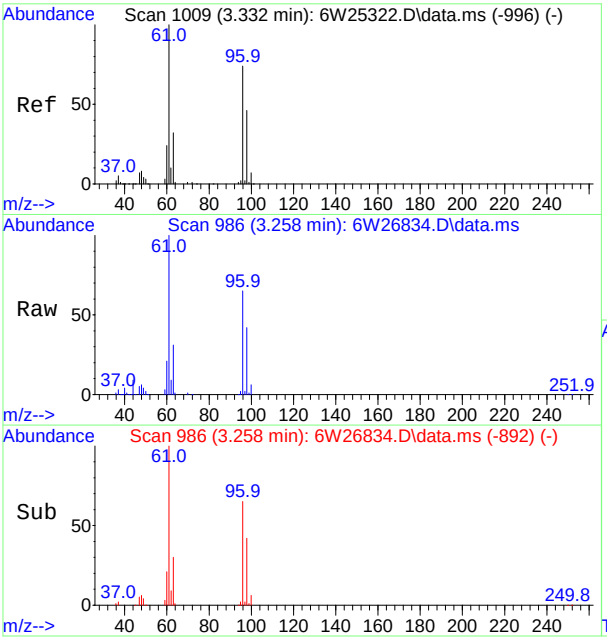




#41
METHYL ETHYL KETONE
Concen: 0.13 PPBV m
RT: 3.049 min Scan# 921
Delta R.T. 0.013 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 72 Resp: 384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 72 | 100 | | |
| 57 | 4716.9 | 22.2 | 33.4# |
| 43 | 36748.2 | 252.6 | 378.8# |

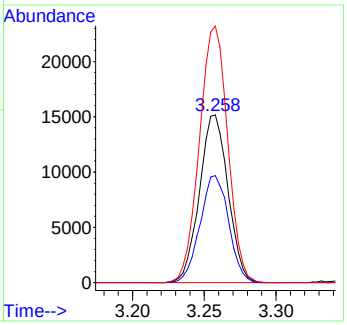


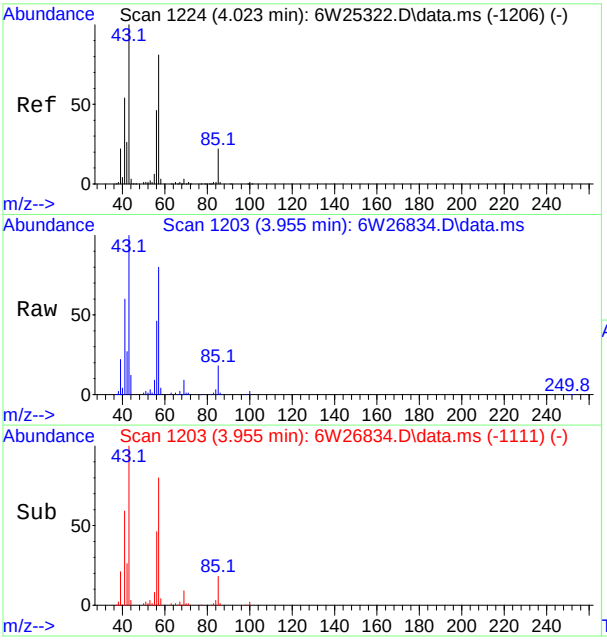



#42
CIS-1,2-DICHLOROETHENE
Concen: 3.18 PPBV
RT: 3.258 min Scan# 986
Delta R.T. 0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 96 Resp: 20969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 63.8 | 51.1 | 76.7 |
| 61 | 151.5 | 93.9 | 140.9# |

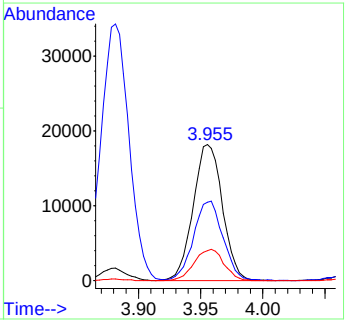


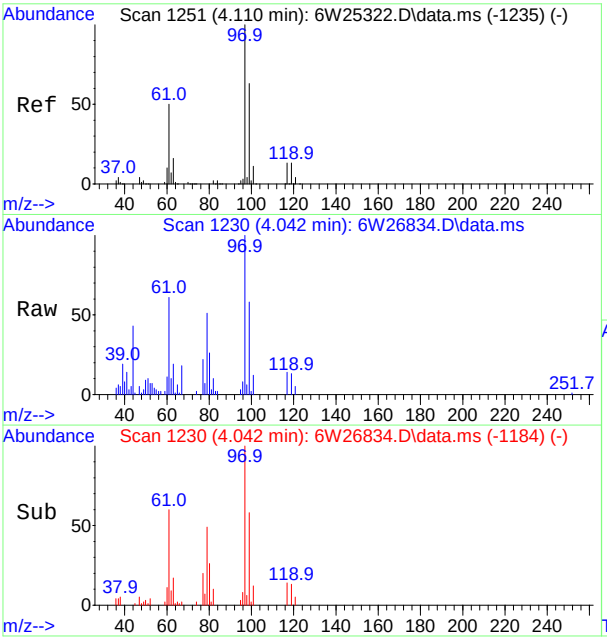




#47
2,4-DIMETHYLPENTANE
Concen: 2.16 PPBV
RT: 3.955 min Scan# 1203
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 57 Resp: 29831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 56 | 59.2 | 43.9 | 65.9 |
| 85 | 23.4 | 25.0 | 37.6# |

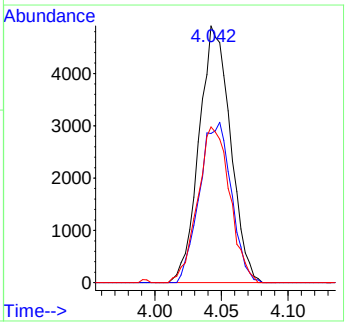


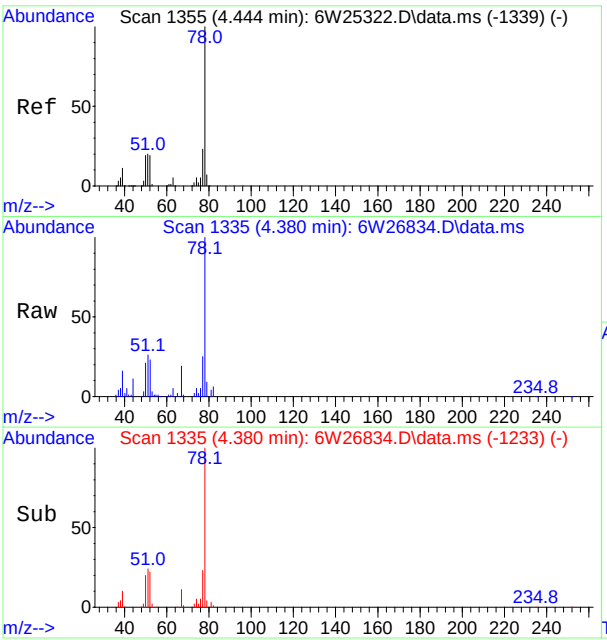



#48
1,1,1-TRICHLOROETHANE
Concen: 0.60 PPBV
RT: 4.042 min Scan# 1230
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 97 Resp: 8039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.5 | 50.8 | 76.2 |
| 61 | 62.1 | 34.8 | 52.2# |

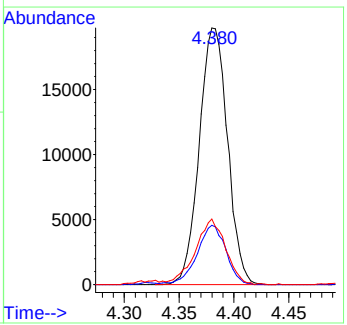


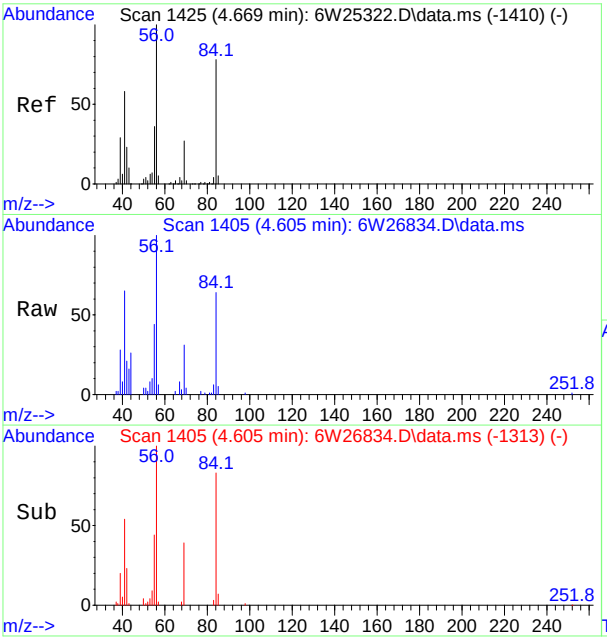




#51
BENZENE
Concen: 1.74 PPBV
RT: 4.380 min Scan# 1335
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 78 Resp: 35277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 52 | 23.8 | 0.0 | 34.0 |
| 51 | 29.0 | 0.0 | 33.5 |

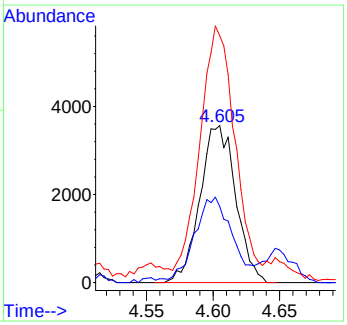


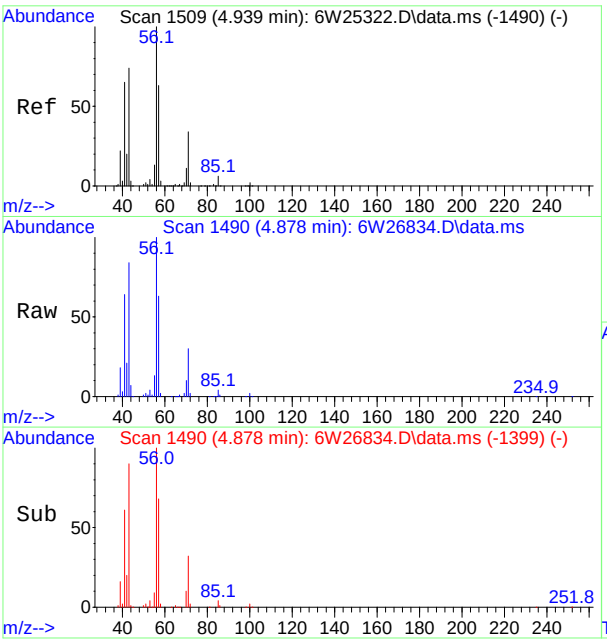



#53
CYCLOHEXANE
Concen: 0.80 PPBV
RT: 4.605 min Scan# 1405
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 84 Resp: 6667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 69 | 57.9 | 28.2 | 42.2# |
| 56 | 167.0 | 88.1 | 132.1# |

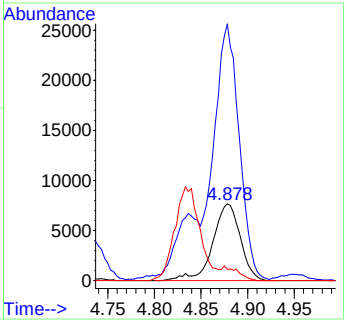


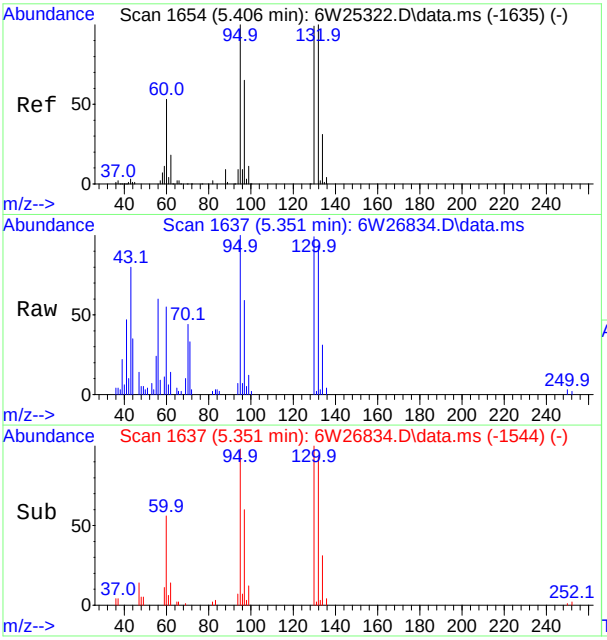




#54
2,3-DIMETHYLPENTANE
Concen: 3.48 PPBV
RT: 4.878 min Scan# 1490
Delta R.T. -0.006 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 71 Resp: 15777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 71 | 100 | | |
| 56 | 383.2 | 188.6 | 283.0# |
| 85 | 0.0 | 13.4 | 20.0# |

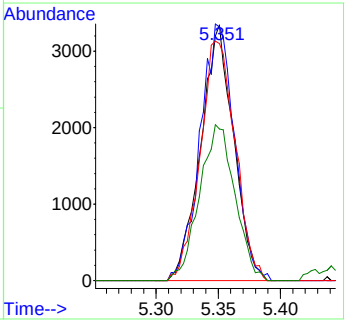


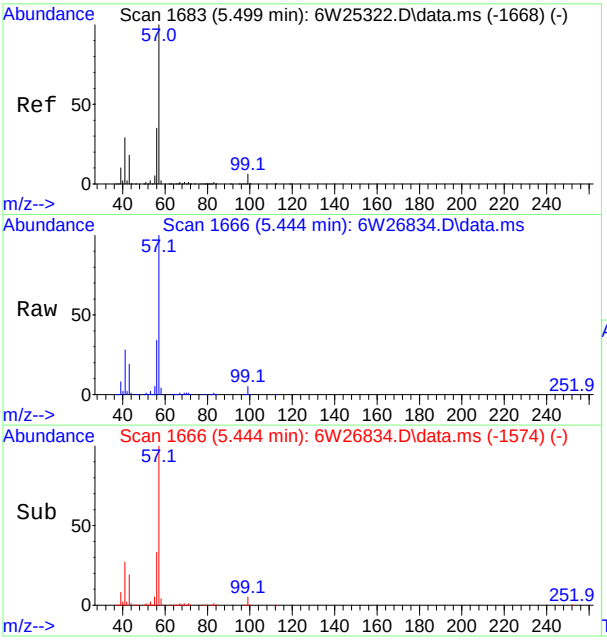



#55
TRICHLOROETHENE
Concen: 0.69 PPBV
RT: 5.351 min Scan# 1637
Delta R.T. 0.000 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 95 Resp: 6152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 105.0 | 83.2 | 124.8 |
| 132 | 99.8 | 79.8 | 119.6 |
| 97 | 65.7 | 51.3 | 76.9 |

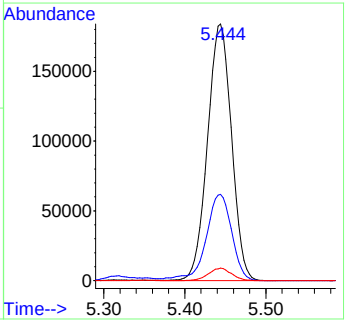


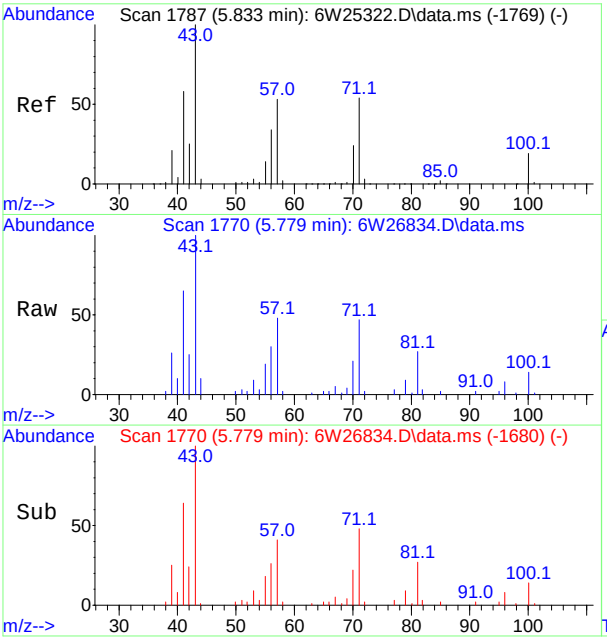




#60
2,2,4-TRIMETHYLPENTANE
Concen: 10.01 PPBV
RT: 5.444 min Scan# 1666
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 57 Resp: 378437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 56 | 36.1 | 26.3 | 39.5 |
| 99 | 4.7 | 5.0 | 7.6# |

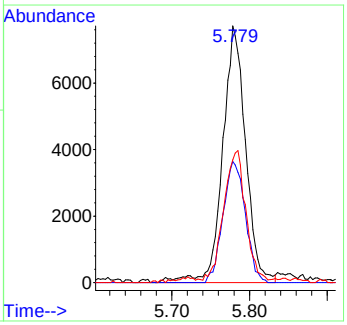


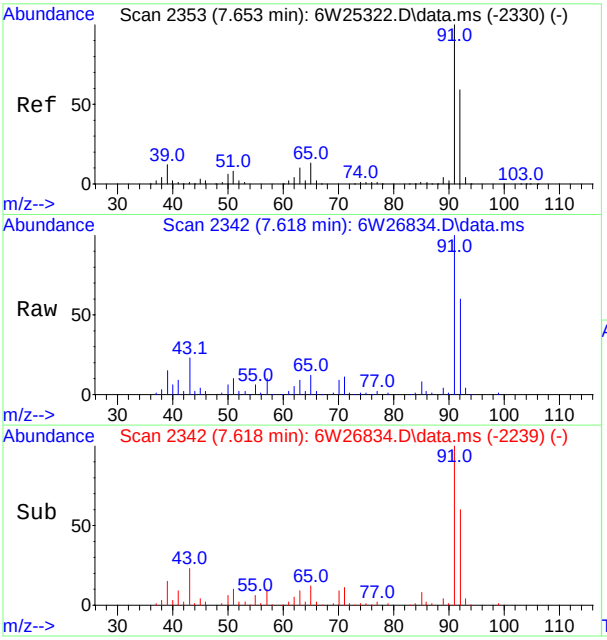



#62
HEPTANE
Concen: 1.04 PPBV
RT: 5.779 min Scan# 1770
Delta R.T. -0.009 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 43 Resp: 15832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 71 | 45.8 | 60.6 | 90.8# |
| 57 | 48.4 | 50.2 | 75.4# |

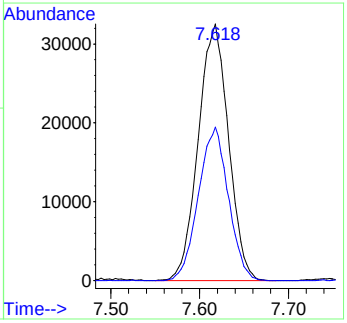


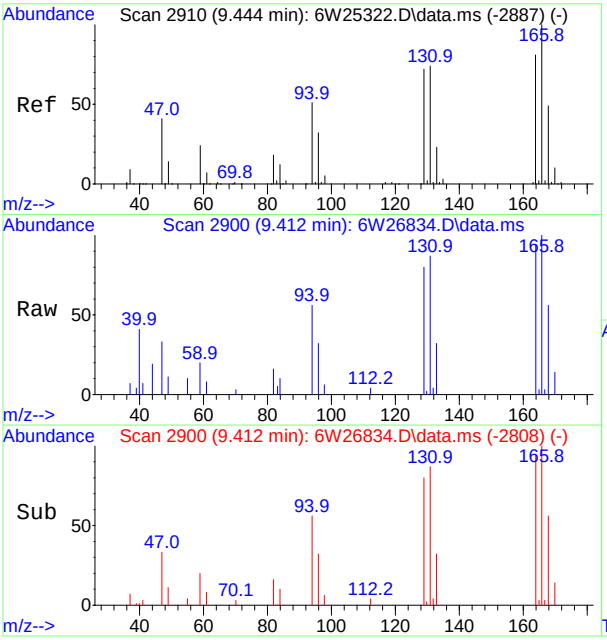




#66
TOLUENE
Concen: 3.05 PPBV
RT: 7.618 min Scan# 2342
Delta R.T. 0.000 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 91 Resp: 77160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.2 | 38.9 | 78.9 |

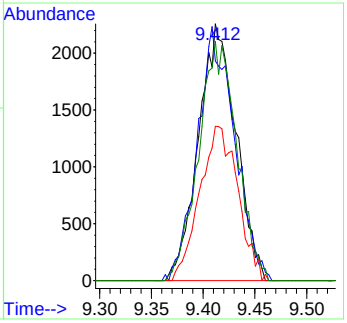


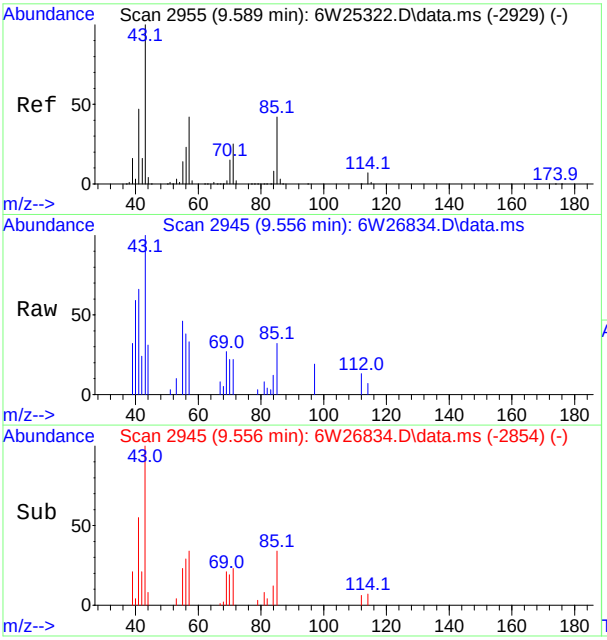



#72
TETRACHLOROETHENE
Concen: 0.65 PPBV
RT: 9.412 min Scan# 2900
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion:164 Resp: 5679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 129 | 98.0 | 72.0 | 108.0 |
| 168 | 61.1 | 48.6 | 72.8 |
| 131 | 95.2 | 69.0 | 103.6 |

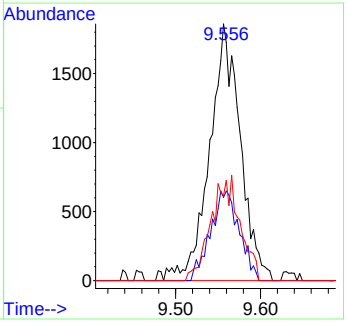


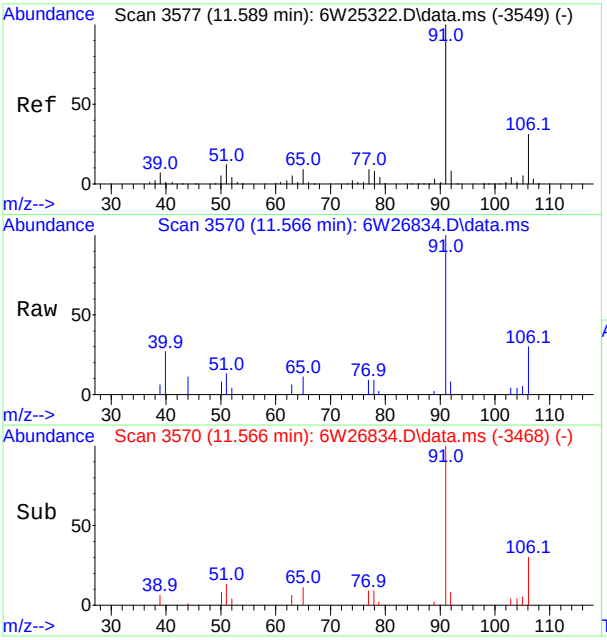




#75
OCTANE
Concen: 0.23 PPBV
RT: 9.556 min Scan# 2945
Delta R.T. -0.006 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 43 Resp: 4704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 85 | 32.6 | 49.8 | 74.8# |
| 57 | 38.1 | 38.8 | 58.2# |

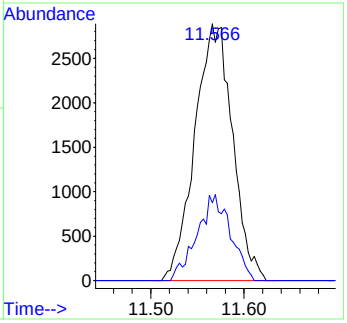


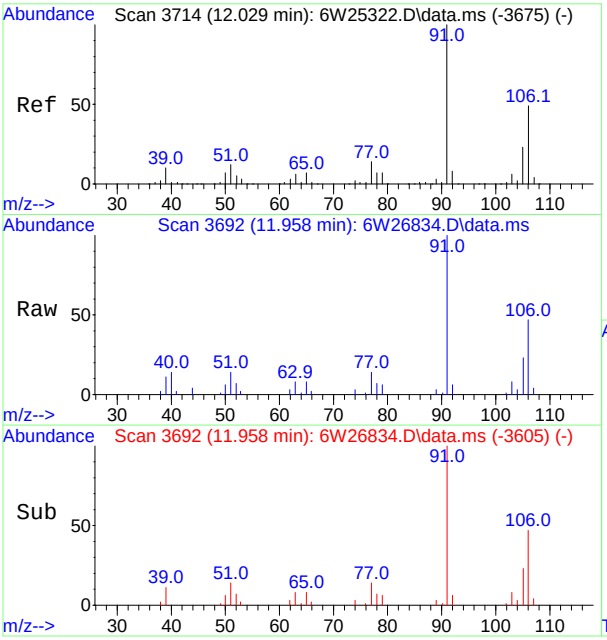



#79
ETHYLBENZENE
Concen: 0.25 PPBV
RT: 11.566 min Scan# 3570
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 91 Resp: 8113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.8 | 11.7 | 51.7 |

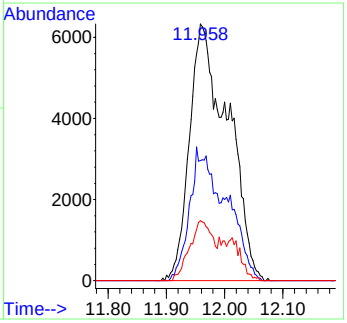


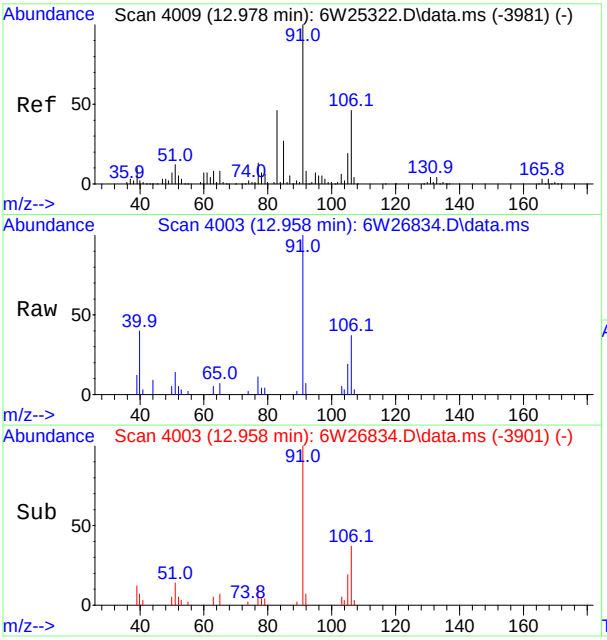




#80
M,P-XYLENE
Concen: 1.21 PPBV
RT: 11.958 min Scan# 3692
Delta R.T. -0.051 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 91 Resp: 28938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.9 | 31.5 | 71.5 |
| 105 | 22.9 | 3.6 | 43.6 |

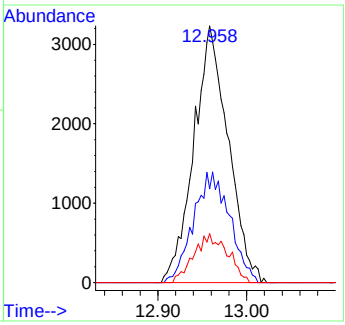


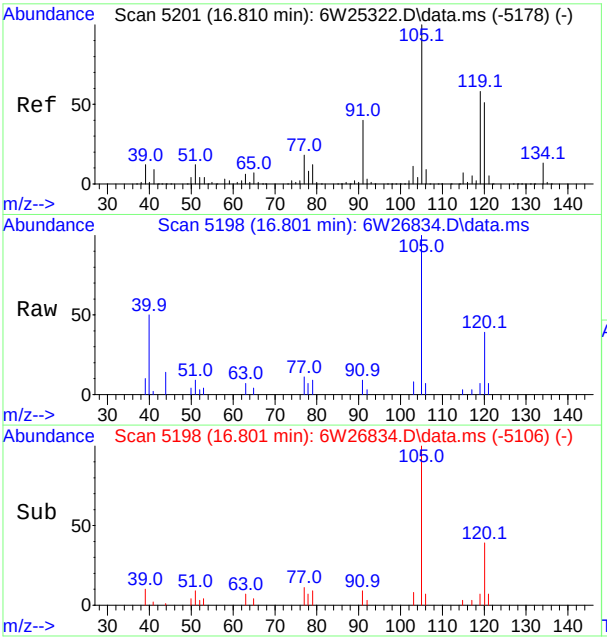



#81
O-XYLENE
Concen: 0.37 PPBV
RT: 12.958 min Scan# 4003
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 91 Resp: 8713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 36.6 | 39.1 | 58.7# |
| 105 | 19.1 | 15.7 | 23.5 |

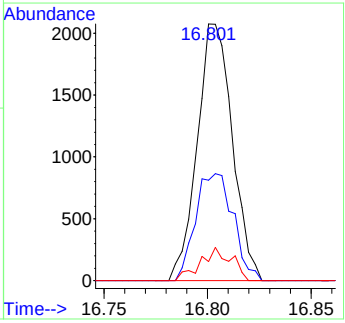



#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 16.801 min Scan# 5198
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion:105 Resp: 2452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.7 | 45.4 | 68.2# |
| 119 | 0.0 | 90.6 | 135.8# |



# Manual Integration Approval Summary



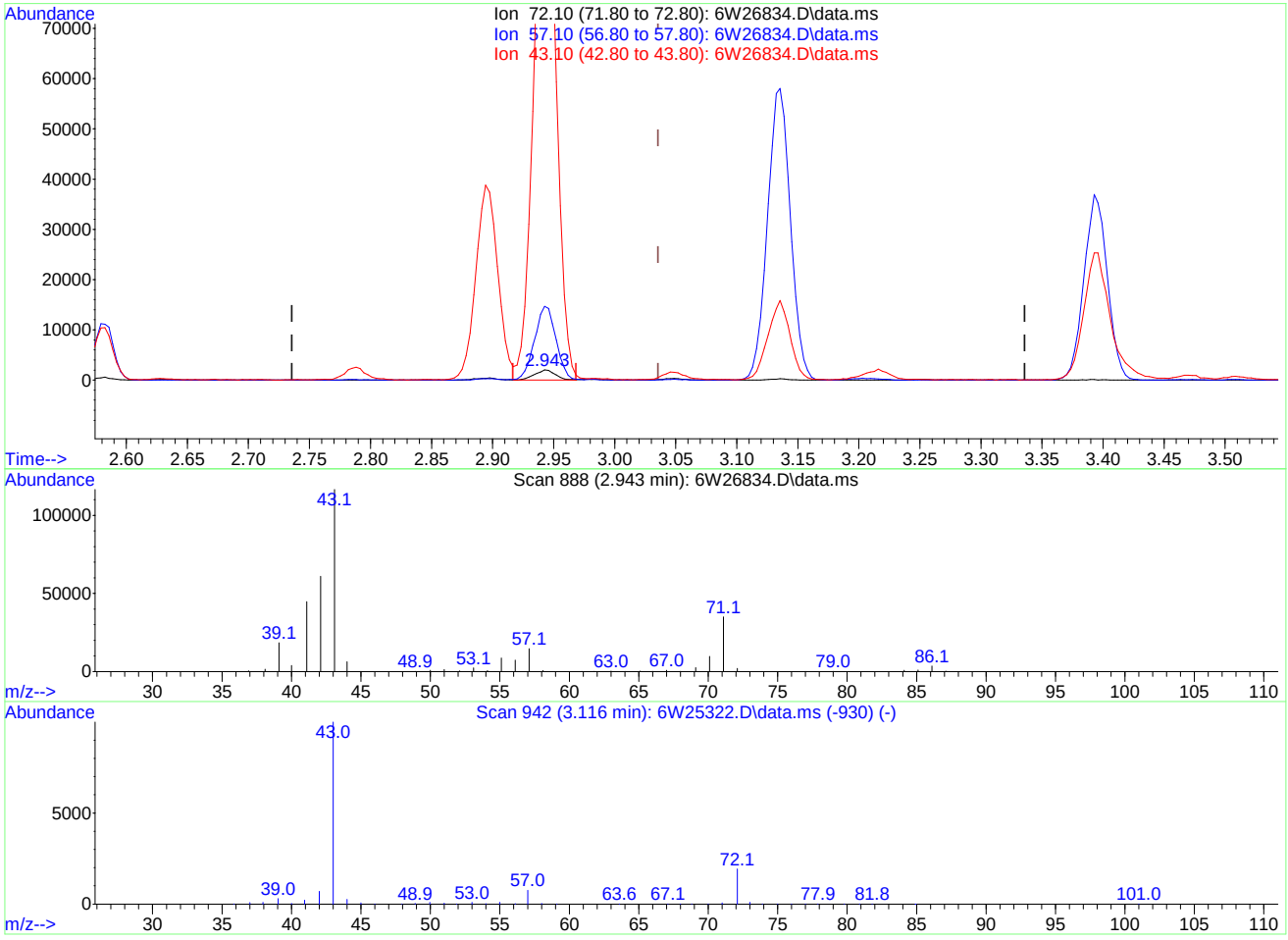
**Sample Number:** JD53652-1DUP
**Lab FileID:** 6W26834.D
**Injection Time:** 11/03/22 17:26
**Method:** TO-15
**Analyst approved:** 11/07/22 16:32 William Cruser
**Supervisor approved:** 11/07/22 17:15 Kanya Veerawat

| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Methyl ethyl ketone | 78-93-3 | | 3.05 | Missed peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26834.D
Acq On : 3 Nov 2022 5:26 pm
Operator : thomash
Sample : jd53652-1dup
Misc : MS63088,V6W1137,100,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 04 14:18:02 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26834.D\data.ms

(41) METHYL ETHYL KETONE (T)

2.943min (-0.093) 0.78PPBV

response 2382

| Ion | Exp% | Act% |
|---|---|---|
| 72.10 | 100 | 100 |
| 57.10 | 27.80 | 760.41# |
| 43.10 | 315.70 | 5924.14# |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/08/22 16:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26872.D
Acq On : 4 Nov 2022 3:00 pm
Operator : thomash
Sample : jd54423-15dup
Misc : MS63483,V6W1138,100,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 08 12:06:37 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

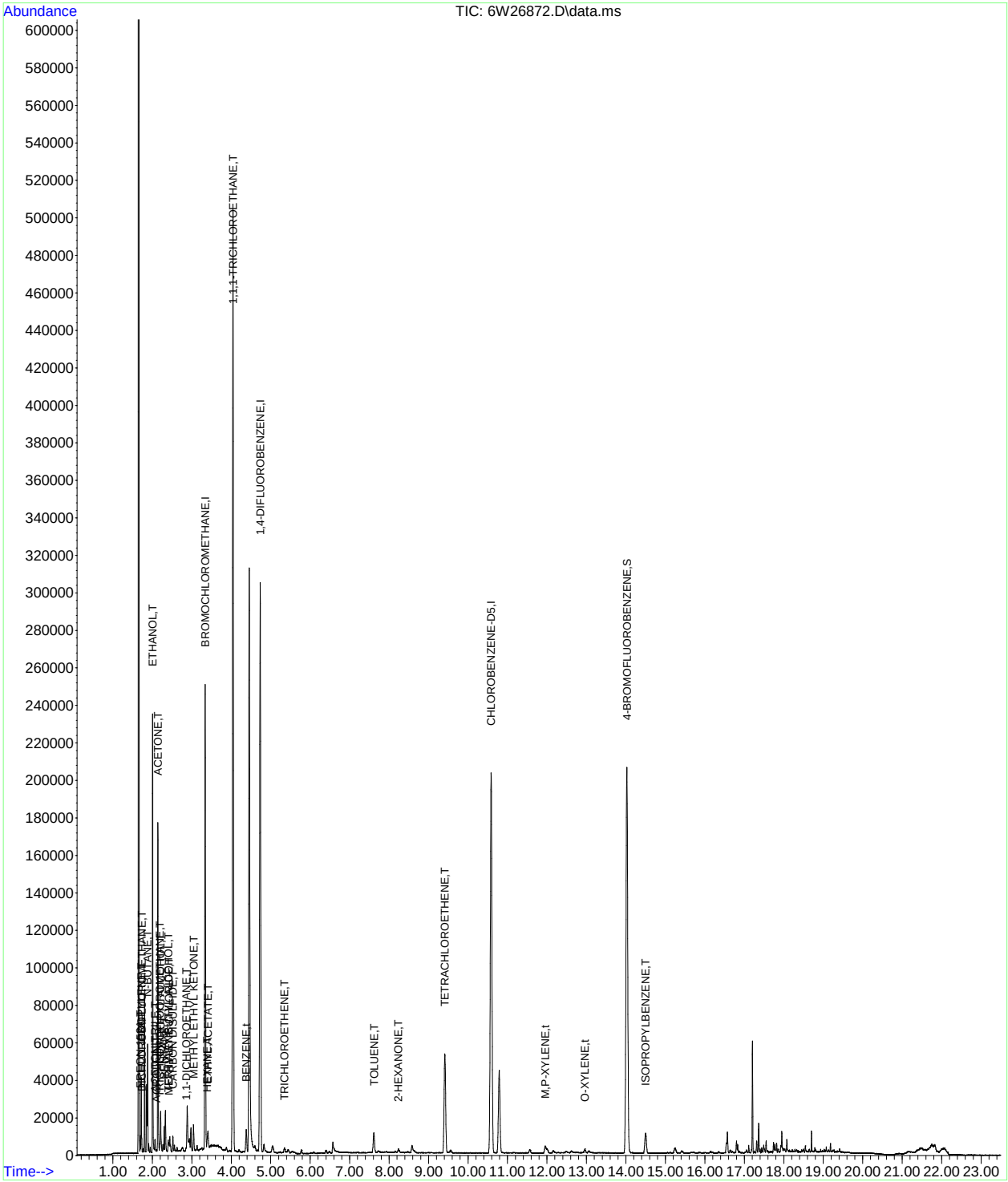
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.341 | 128 | 45230 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.734 | 114 | 226403 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 182016 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.026 | 95 | 125430 | 9.87 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 1475 | 0.38 | PPBV | # 53 |
| 6) DICHLORODIFLUOROMETHANE | 1.734 | 85 | 2509 | 0.18 | PPBV | # 90 |
| 7) PROPYLENE | 1.718 | 41 | 5634 | 0.97 | PPBV | # 75 |
| 13) N-BUTANE | 1.878 | 43 | 21705 | 1.90 | PPBV | 94 |
| 17) ACETONITRILE | 2.068 | 41 | 2738 | 0.41 | PPBV | # 95 |
| 18) ACROLEIN | 2.100 | 56 | 440m | 0.16 | PPBV | |
| 21) TRICHLOROFLUOROMETHANE | 2.190 | 101 | 1610 | 0.11 | PPBV | # 92 |
| 22) ISOPROPYL ALCOHOL | 2.210 | 45 | 12997 | 0.87 | PPBV | # 90 |
| 23) ACETONE | 2.139 | 58 | 31416 | 9.38 | PPBV | # 52 |
| 24) PENTANE | 2.300 | 42 | 2479 | 0.31 | PPBV | # 95 |
| 27) CARBON DISULFIDE | 2.521 | 76 | 3077 | 0.17 | PPBV | # 58 |
| 28) ETHANOL | 2.007 | 45 | 112346 | 32.70 | PPBV | 98 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 815 | 0.14 | PPBV | # 22 |
| 35) TERTIARY BUTYL ALCOHOL | 2.402 | 59 | 1843 | 0.15 | PPBV | # 42 |
| 38) HEXANE | 3.390 | 57 | 1549 | 0.13 | PPBV | # 81 |
| 40) 1,1-DICHLOROETHANE | 2.856 | 63 | 1243 | 0.10 | PPBV | # 50 |
| 41) METHYL ETHYL KETONE | 3.046 | 72 | 2324 | 0.76 | PPBV | # 1 |
| 44) ETHYL ACETATE | 3.412 | 61 | 954 | 0.40 | PPBV | # 28 |
| 48) 1,1,1-TRICHLOROETHANE | 4.045 | 97 | 246902 | 18.63 | PPBV | # 91 |
| 51) BENZENE | 4.380 | 78 | 8630 | 0.43 | PPBV | 78 |
| 55) TRICHLOROETHENE | 5.344 | 95 | 932 | 0.10 | PPBV | # 86 |
| 66) TOLUENE | 7.618 | 91 | 10094 | 0.40 | PPBV | 98 |
| 70) 2-HEXANONE | 8.232 | 58 | 772 | 0.11 | PPBV | # 1 |
| 72) TETRACHLOROETHENE | 9.412 | 164 | 18679 | 2.16 | PPBV | 94 |
| 80) M,P-XYLENE | 11.955 | 91 | 6069 | 0.26 | PPBV | 91 |
| 81) O-XYLENE | 12.958 | 91 | 2173 | 0.09 | PPBV | # 78 |
| 88) ISOPROPYLBENZENE | 14.498 | 105 | 12485 | 0.39 | PPBV | 96 |

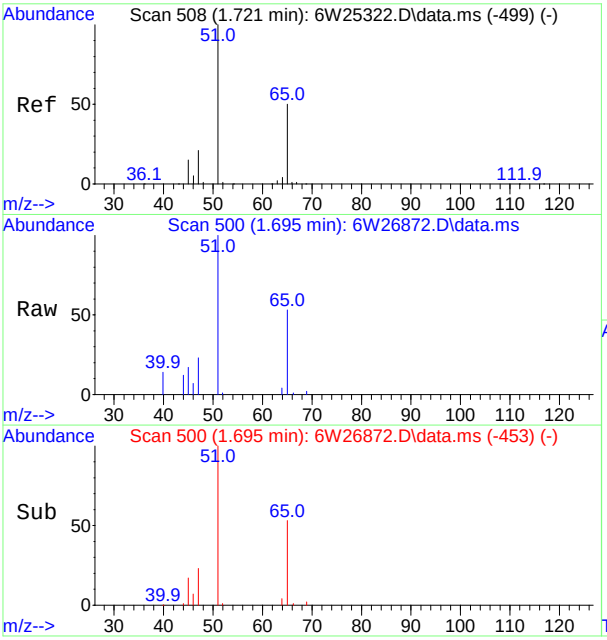
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26872.D
Acq On : 4 Nov 2022 3:00 pm
Operator : thomash
Sample : jd54423-15dup
Misc : MS63483,V6W1138,100,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 08 12:06:37 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

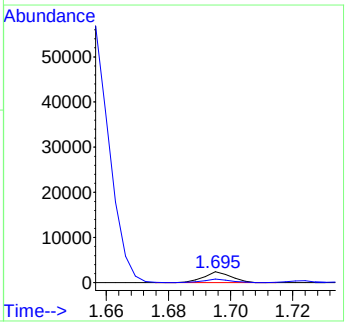


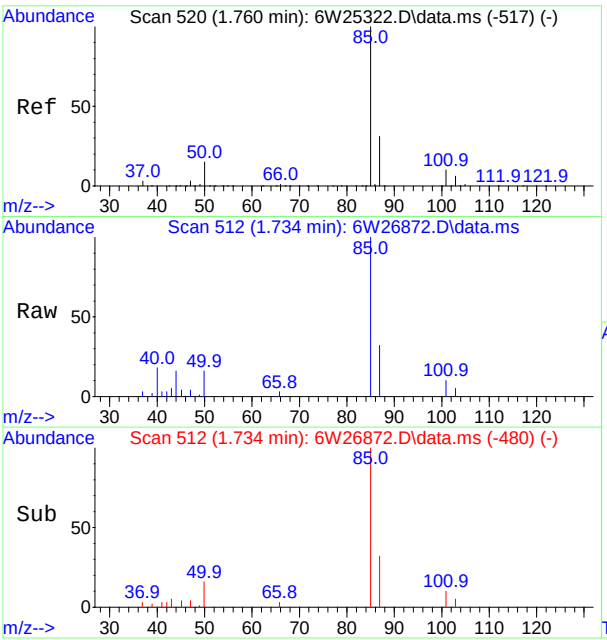



#3
FREON 152A
Concen: 0.38 PPBV
RT: 1.695 min Scan# 500
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 65 Resp: 1475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 45 | 0.0 | 18.3 | 27.5# |

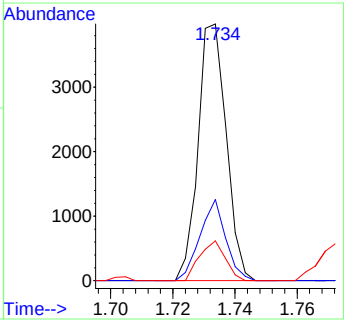


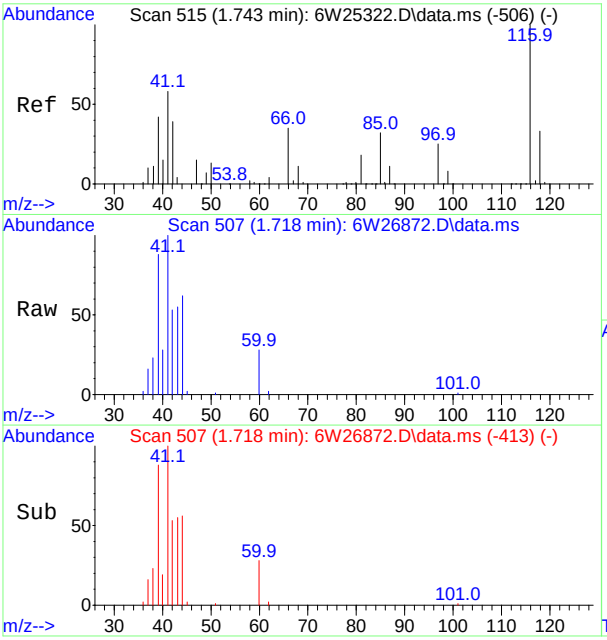




#6
DICHLORODIFLUOROMETHANE
Concen: 0.18 PPBV
RT: 1.734 min Scan# 512
Delta R.T. 0.003 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 85 Resp: 2509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 28.9 | 25.8 | 38.6 |
| 50 | 0.0 | 7.4 | 11.2# |

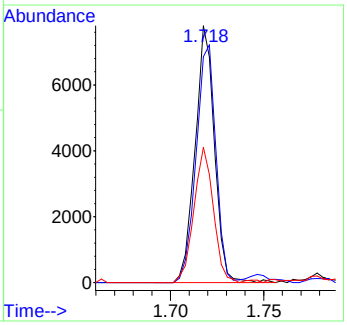


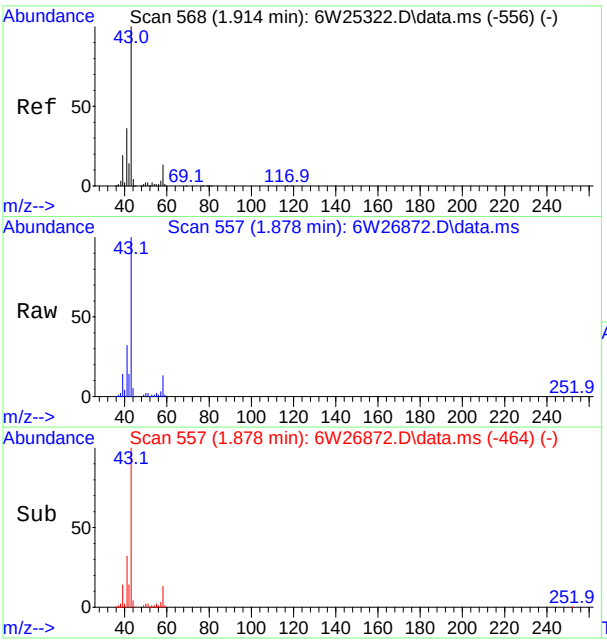



#7
PROPYLENE
Concen: 0.97 PPBV
RT: 1.718 min Scan# 507
Delta R.T. 0.003 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 41 Resp: 5634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 94.5 | 54.6 | 81.8# |
| 42 | 53.4 | 53.8 | 80.6# |

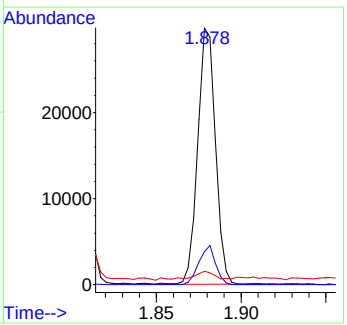


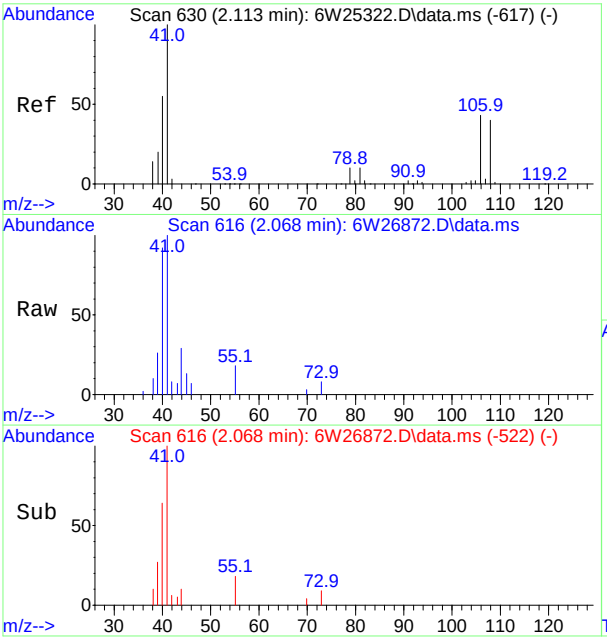




#13
N-BUTANE
Concen: 1.90 PPBV
RT: 1.878 min Scan# 557
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 43 Resp: 21705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 14.3 | 14.2 | 21.2 |
| 44 | 4.8 | 4.2 | 6.4 |

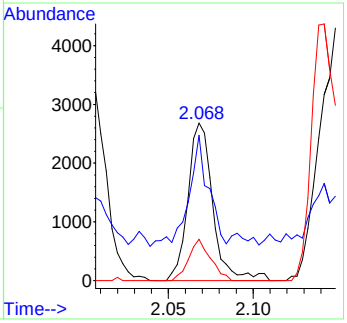


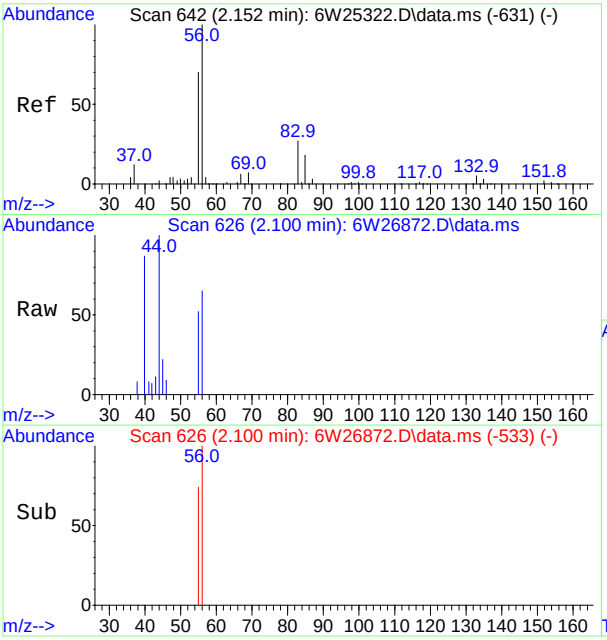



#17
ACETONITRILE
Concen: 0.41 PPBV
RT: 2.068 min Scan# 616
Delta R.T. 0.003 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 41 Resp: 2738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 40 | 50.4 | 41.6 | 62.4 |
| 39 | 23.2 | 14.2 | 21.4# |

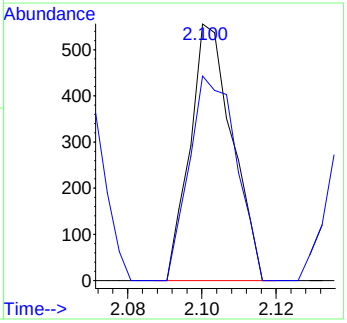


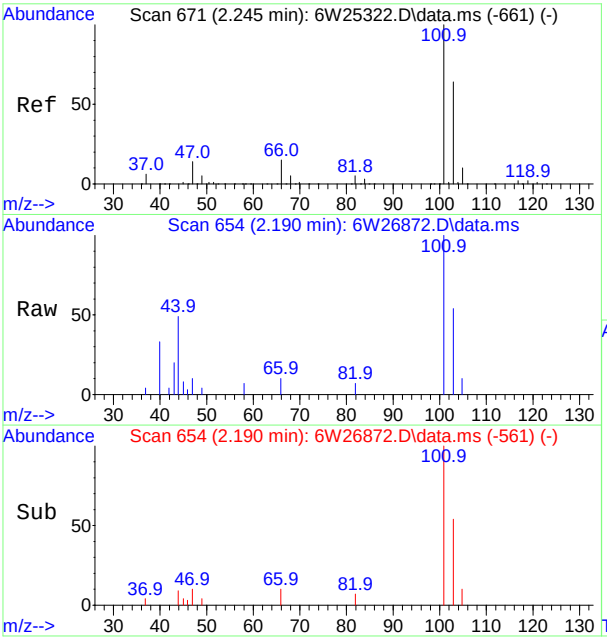




#18
ACROLEIN
Concen: 0.16 PPBV m
RT: 2.100 min Scan# 626
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 56 Resp: 440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 164.3 | 56.0 | 84.0# |

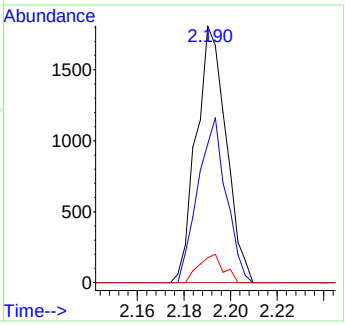


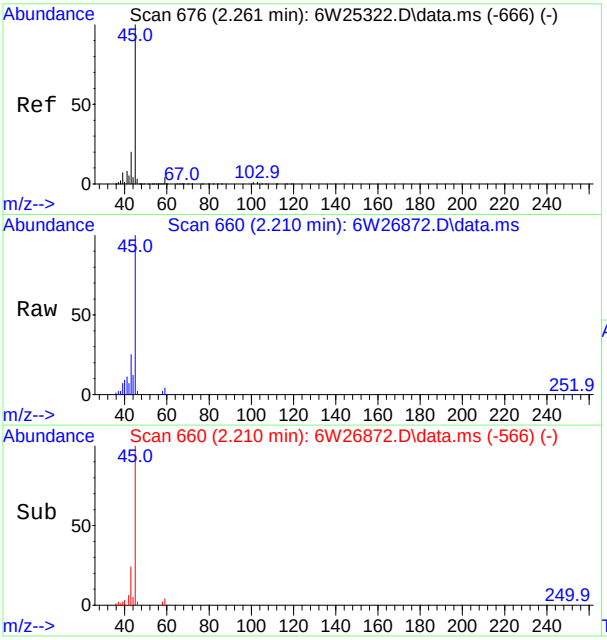



#21
TRICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 2.190 min Scan# 654
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion:101 Resp: 1610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 60.7 | 51.8 | 77.6 |
| 105 | 0.0 | 8.4 | 12.6# |

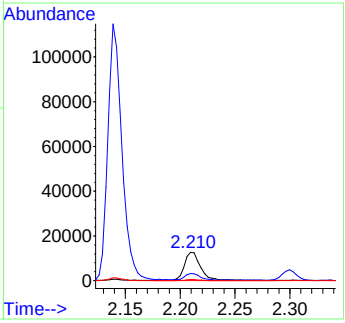


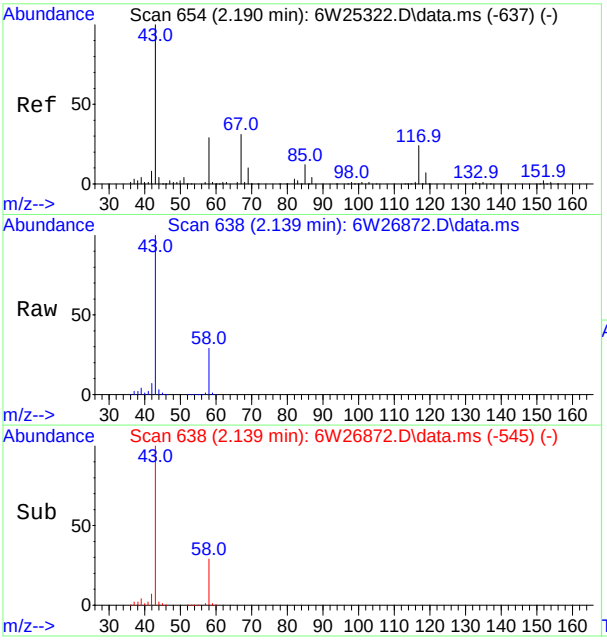




#22
ISOPROPYL ALCOHOL
Concen: 0.87 PPBV
RT: 2.210 min Scan# 660
Delta R.T. 0.003 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 45 Resp: 12997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 23.0 | 15.5 | 23.3 |
| 59 | 0.0 | 4.1 | 6.1# |

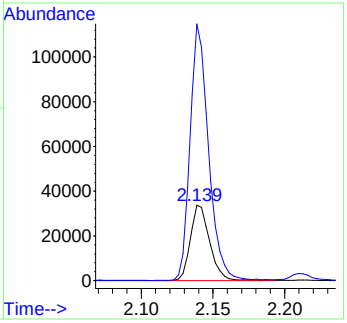


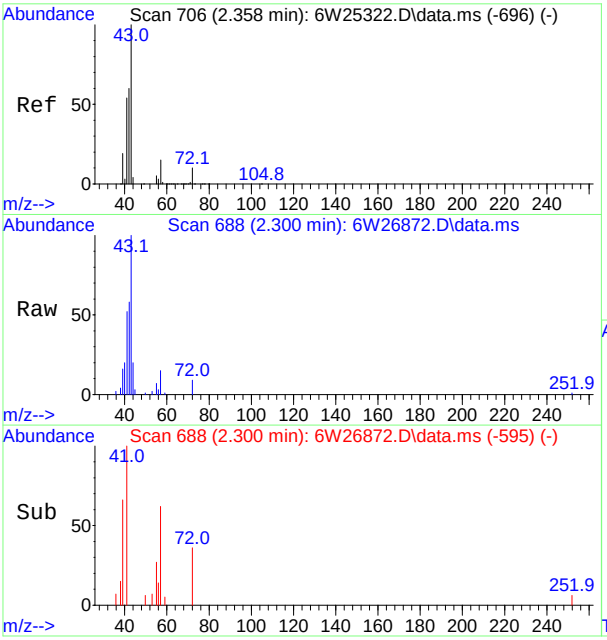



#23
ACETONE
Concen: 9.38 PPBV
RT: 2.139 min Scan# 638
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 58 Resp: 31416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 327.0 | 195.9 | 293.9# |

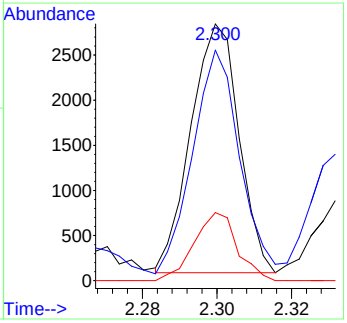


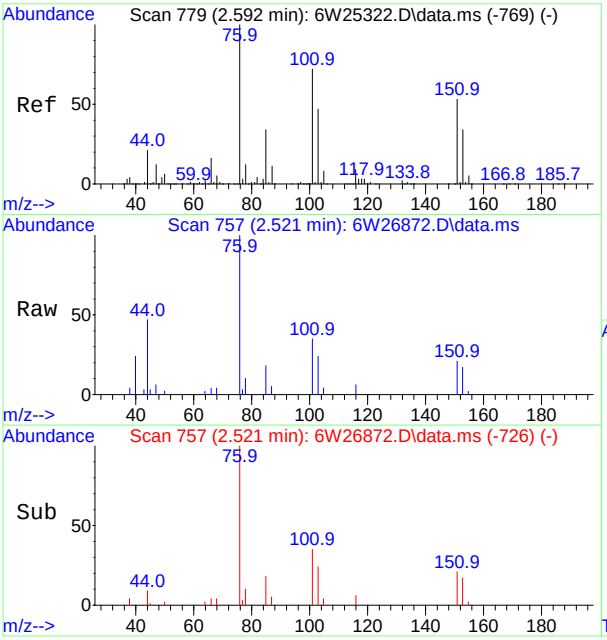




#24
PENTANE
Concen: 0.31 PPBV
RT: 2.300 min Scan# 688
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 42 Resp: 2479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 41 | 87.5 | 69.5 | 104.3 |
| 57 | 24.4 | 27.4 | 41.0# |

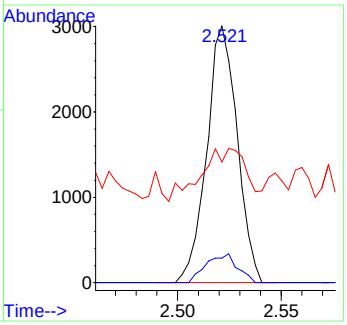


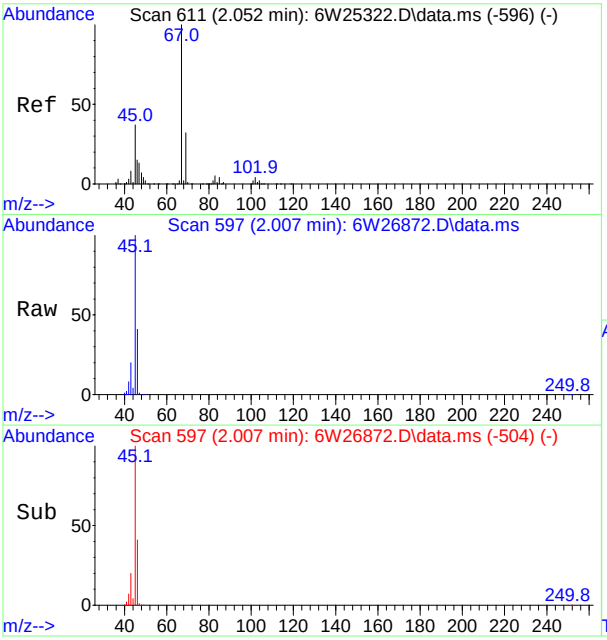



#27
CARBON DISULFIDE
Concen: 0.17 PPBV
RT: 2.521 min Scan# 757
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 76 Resp: 3077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 0.0 | 8.6 | 13.0# |
| 44 | 30.2 | 7.2 | 10.8# |

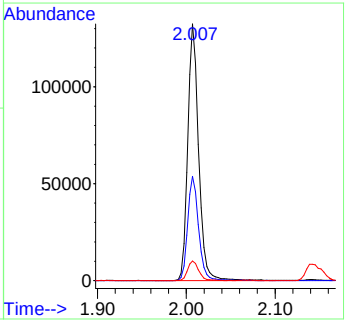


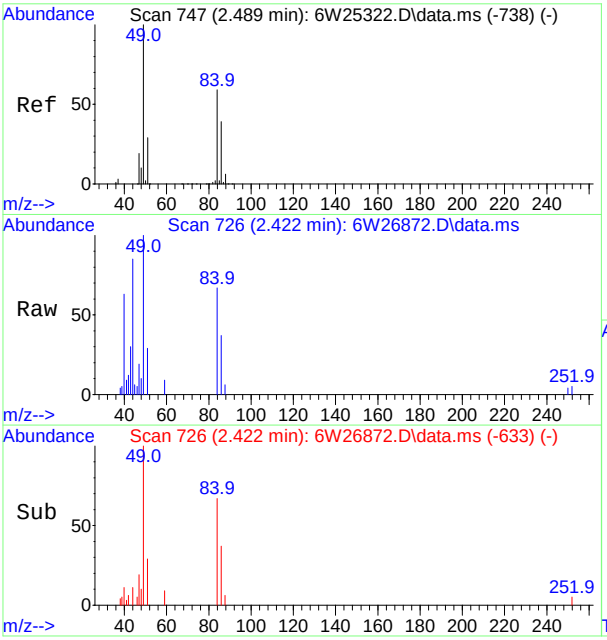




#28
ETHANOL
Concen: 32.70 PPBV
RT: 2.007 min Scan# 597
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 45 Resp: 112346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 41.0 | 34.1 | 51.1 |
| 42 | 8.0 | 6.1 | 9.1 |

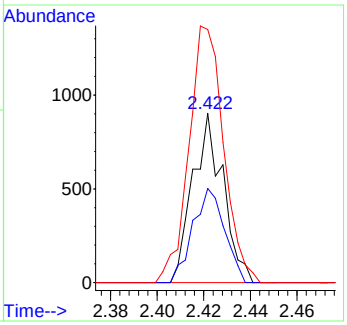


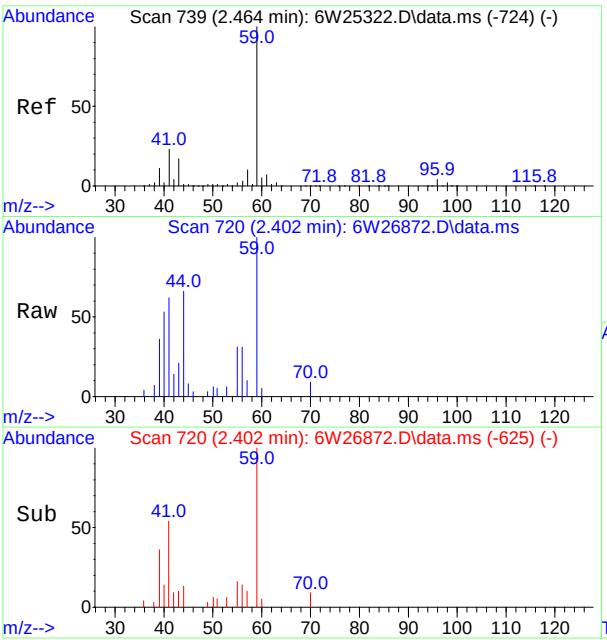



#31
METHYLENE CHLORIDE
Concen: 0.14 PPBV
RT: 2.422 min Scan# 726
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 84 Resp: 815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 0.0 | 50.9 | 76.3# |
| 49 | 173.3 | 78.6 | 118.0# |

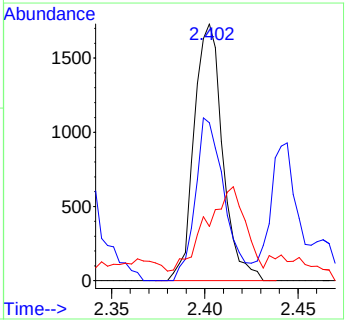


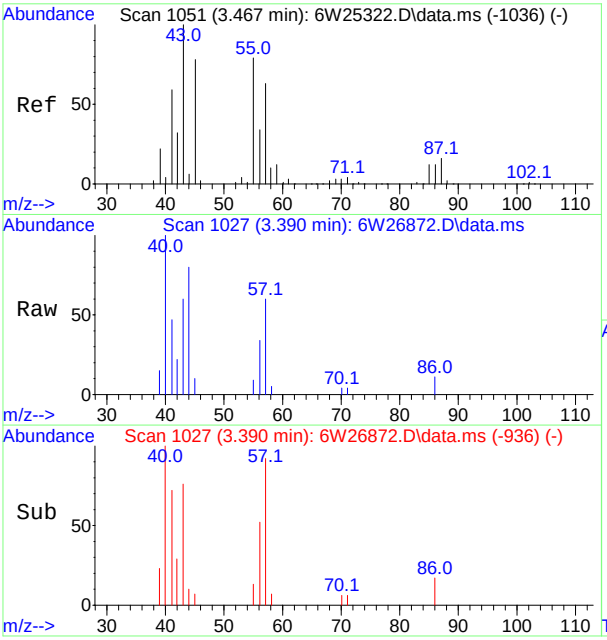




#35
TERTIARY BUTYL ALCOHOL
Concen: 0.15 PPBV
RT: 2.402 min Scan# 720
Delta R.T. 0.007 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 59 Resp: 1843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 41 | 65.0 | 29.9 | 44.9# |
| 43 | 47.7 | 8.9 | 13.3# |

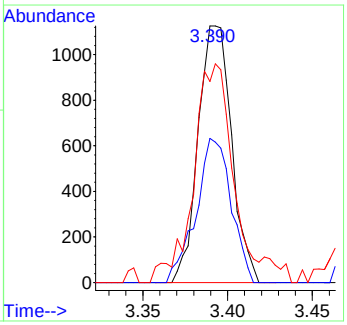


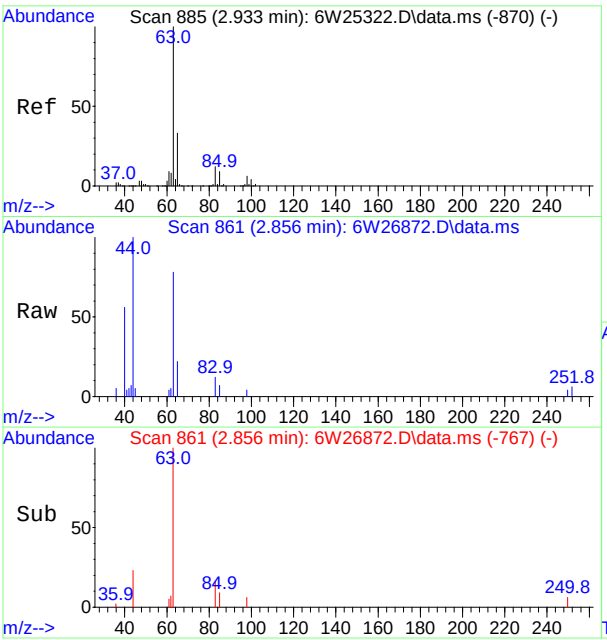



#38
HEXANE
Concen: 0.13 PPBV
RT: 3.390 min Scan# 1027
Delta R.T. -0.006 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 57 Resp: 1549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 56 | 58.9 | 42.0 | 63.0 |
| 41 | 105.0 | 66.2 | 99.2# |

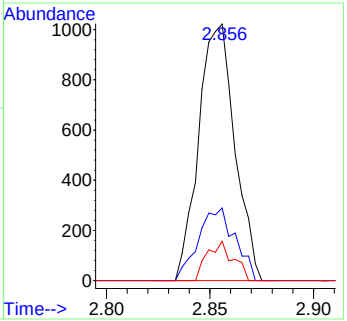


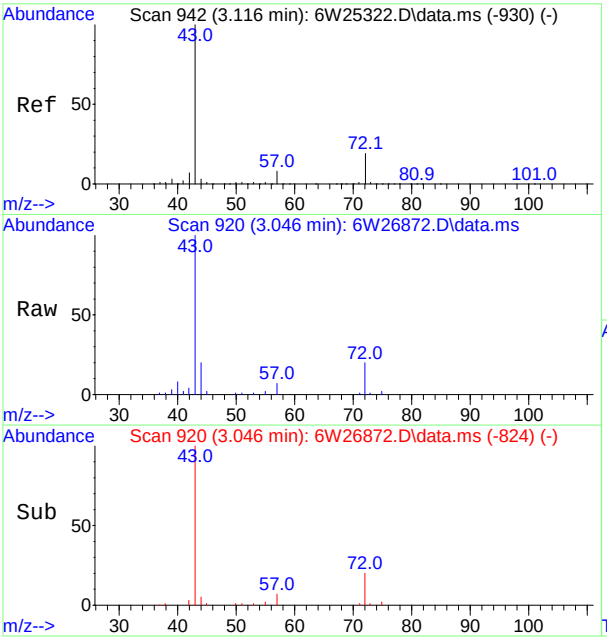




#40
1,1-DICHLOROETHANE
Concen: 0.10 PPBV
RT: 2.856 min Scan# 861
Delta R.T. 0.003 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 63 Resp: 1243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 0.0 | 25.3 | 37.9# |
| 83 | 0.0 | 10.6 | 16.0# |

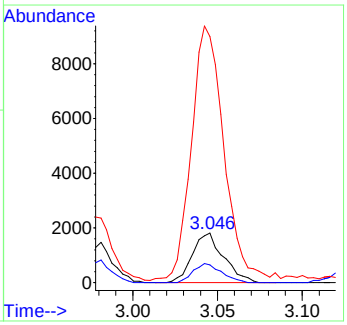


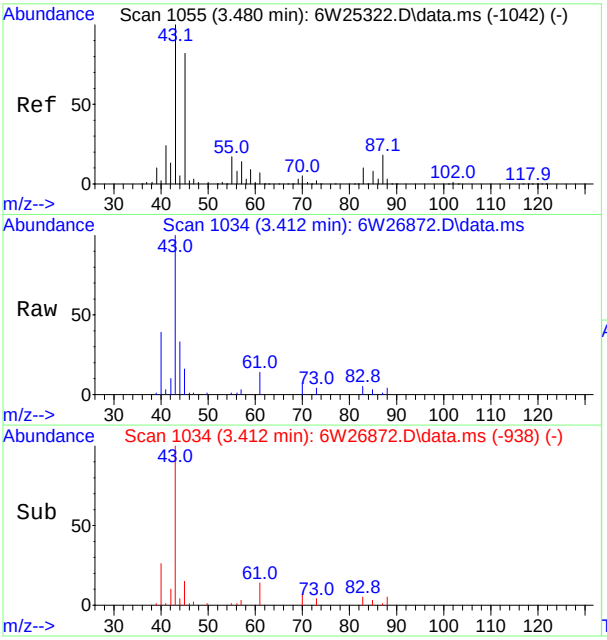



#41
METHYL ETHYL KETONE
Concen: 0.76 PPBV
RT: 3.046 min Scan# 920
Delta R.T. 0.010 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 72 Resp: 2324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 72 | 100 | | |
| 57 | 34.8 | 22.2 | 33.4# |
| 43 | 539.2 | 252.6 | 378.8# |

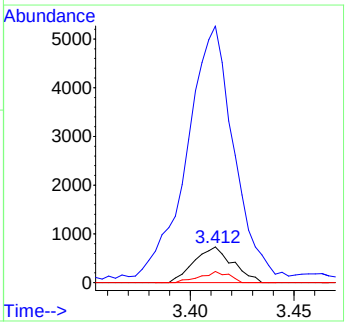


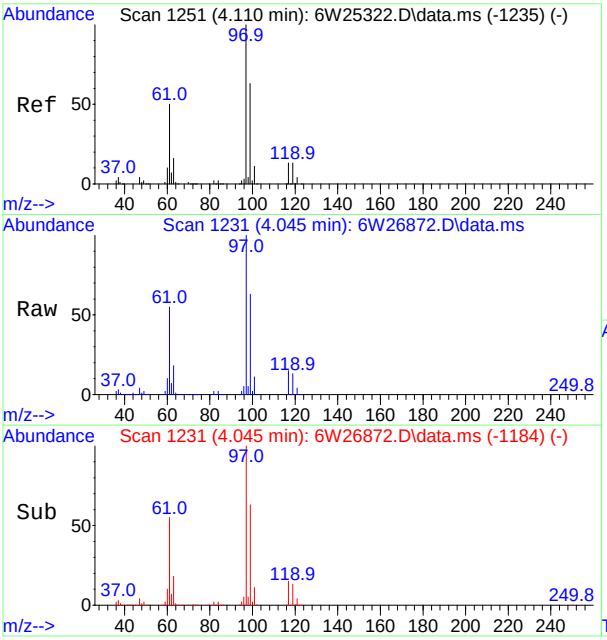




#44
ETHYL ACETATE
Concen: 0.40 PPBV
RT: 3.412 min Scan# 1034
Delta R.T. 0.010 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 61 Resp: 954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 861.8 | 986.2 | 1479.2# |
| 88 | 0.0 | 38.8 | 58.2# |

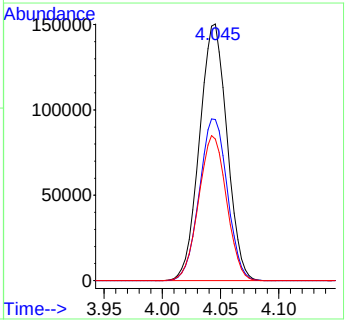


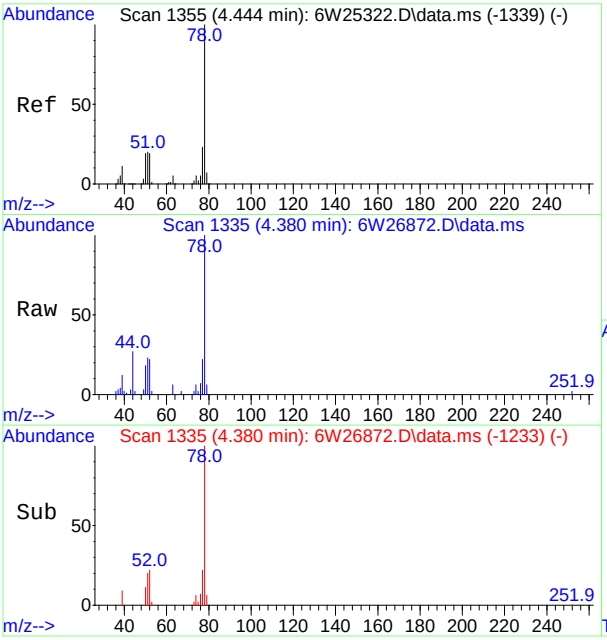



#48
1,1,1-TRICHLOROETHANE
Concen: 18.63 PPBV
RT: 4.045 min Scan# 1231
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 97 Resp: 246902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.0 | 50.8 | 76.2 |
| 61 | 57.1 | 34.8 | 52.2# |

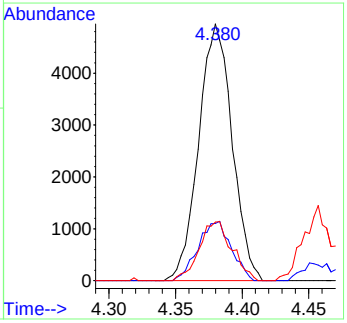


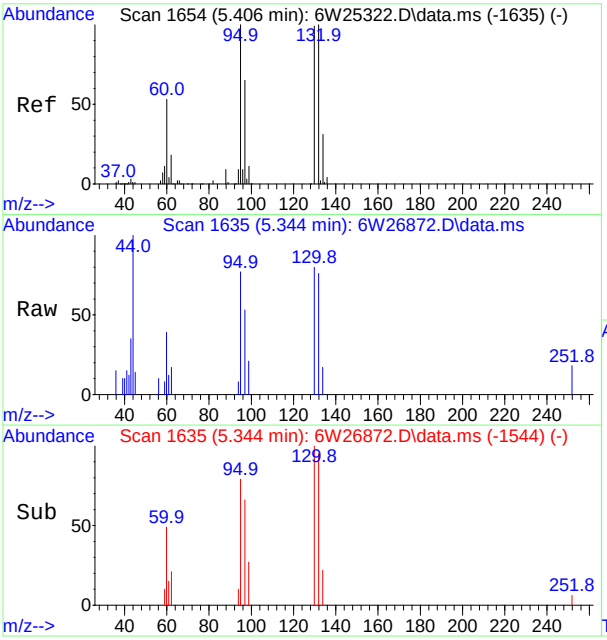




#51
BENZENE
Concen: 0.43 PPBV
RT: 4.380 min Scan# 1335
Delta R.T. -0.003 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 78 Resp: 8630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 52 | 22.9 | 0.0 | 34.0 |
| 51 | 22.6 | 0.0 | 33.5 |

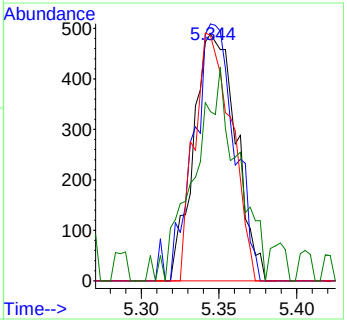


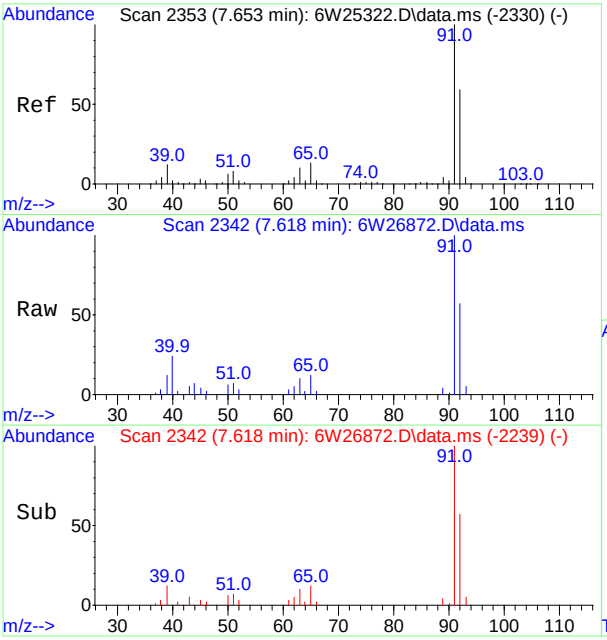



#55
TRICHLOROETHENE
Concen: 0.10 PPBV
RT: 5.344 min Scan# 1635
Delta R.T. -0.006 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 95 Resp: 932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 101.1 | 83.2 | 124.8 |
| 132 | 87.7 | 79.8 | 119.6 |
| 97 | 92.9 | 51.3 | 76.9# |

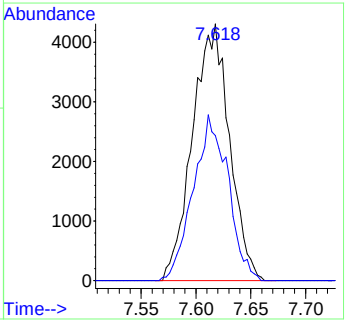


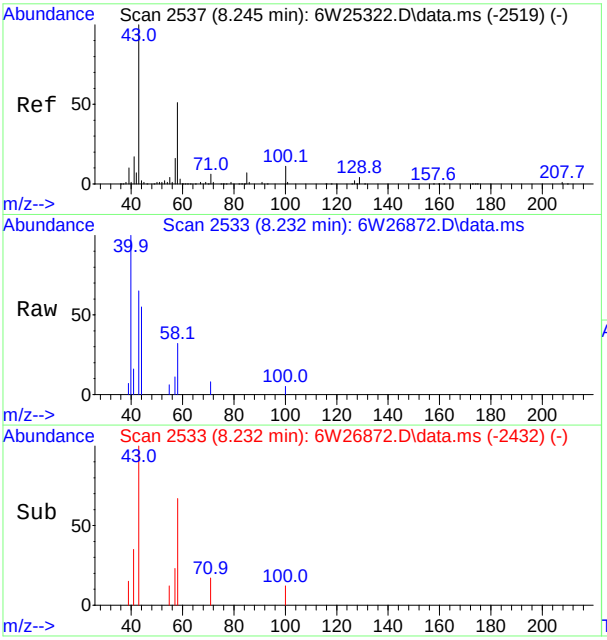




#66
TOLUENE
Concen: 0.40 PPBV
RT: 7.618 min Scan# 2342
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 91 Resp: 10094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.6 | 38.9 | 78.9 |

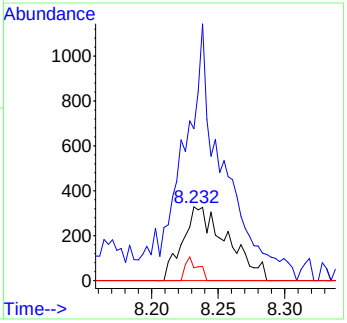


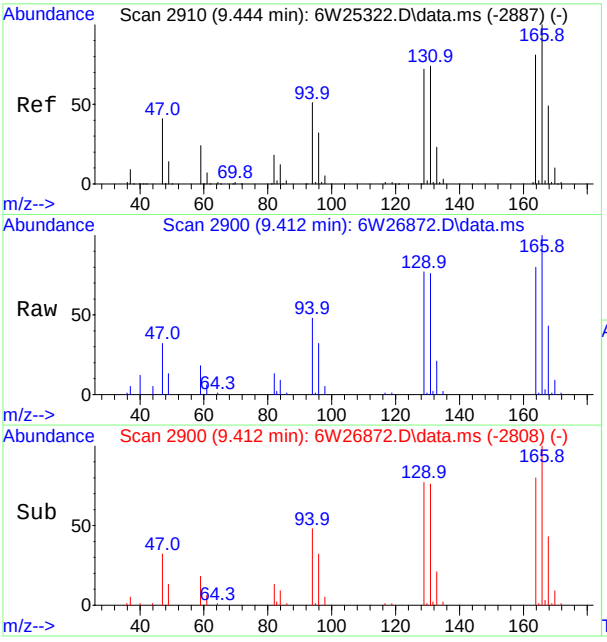



#70
2-HEXANONE
Concen: 0.11 PPBV
RT: 8.232 min Scan# 2533
Delta R.T. 0.026 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 58 Resp: 772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 320.6 | 120.6 | 181.0# |
| 100 | 0.0 | 19.3 | 28.9# |

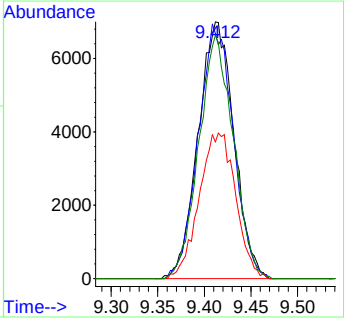


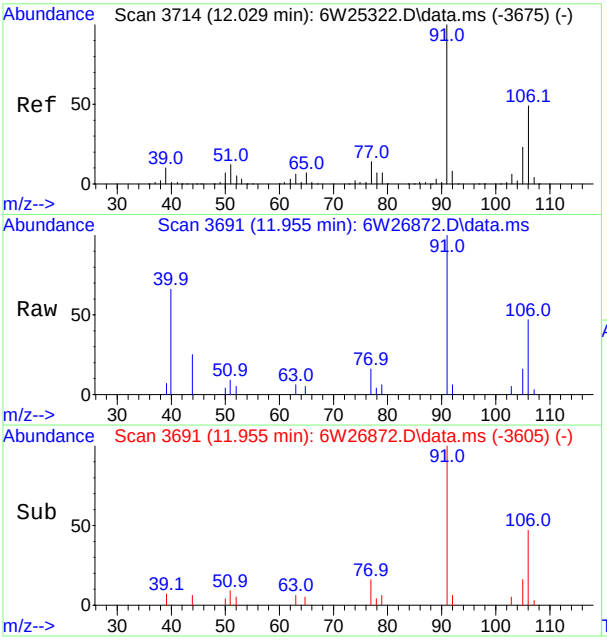




#72
TETRACHLOROETHENE
Concen: 2.16 PPBV
RT: 9.412 min Scan# 2900
Delta R.T. -0.003 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion:164 Resp: 18679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 129 | 97.1 | 72.0 | 108.0 |
| 168 | 57.9 | 48.6 | 72.8 |
| 131 | 91.6 | 69.0 | 103.6 |

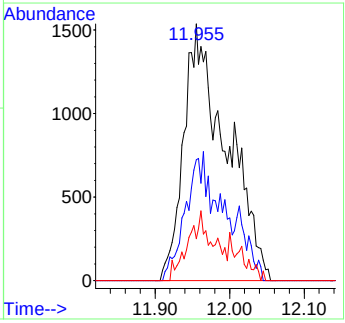


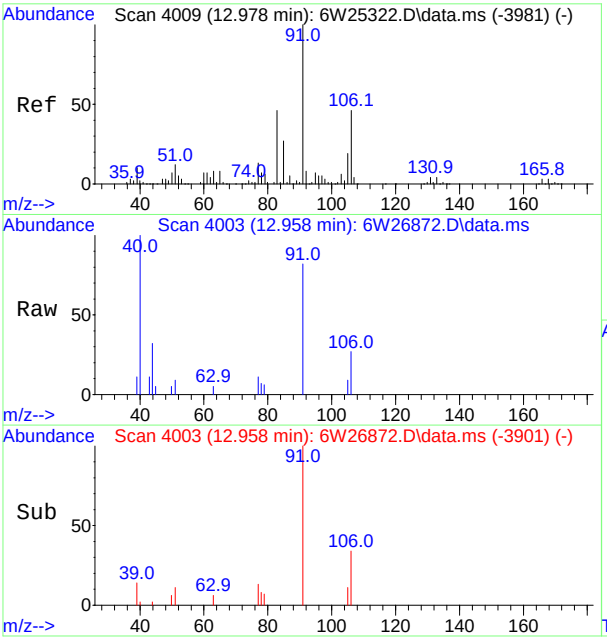



#80
M,P-XYLENE
Concen: 0.26 PPBV
RT: 11.955 min Scan# 3691
Delta R.T. -0.054 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 91 Resp: 6069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 47.0 | 31.5 | 71.5 |
| 105 | 16.3 | 3.6 | 43.6 |

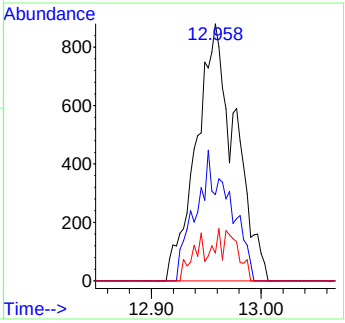


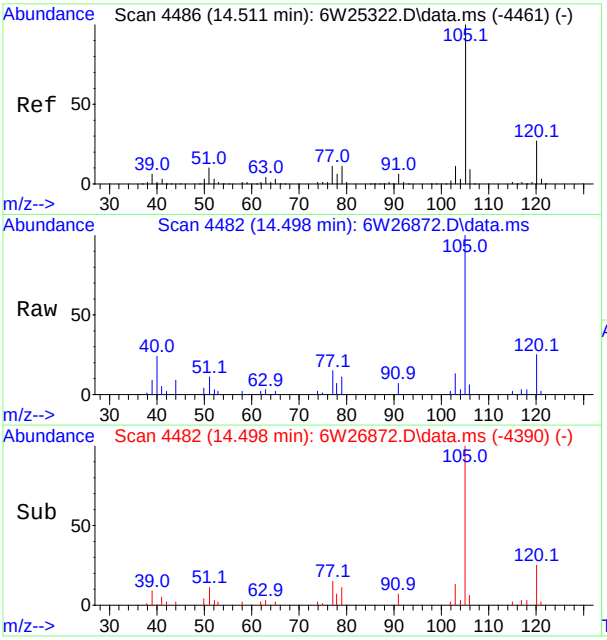




#81
O-XYLENE
Concen: 0.09 PPBV
RT: 12.958 min Scan# 4003
Delta R.T. -0.003 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 91 Resp: 2173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 33.5 | 39.1 | 58.7# |
| 105 | 10.8 | 15.7 | 23.5# |

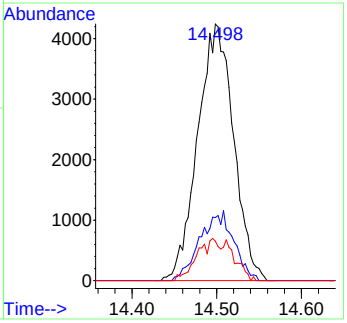





#88
ISOPROPYLBENZENE
Concen: 0.39 PPBV
RT: 14.498 min Scan# 4482
Delta R.T. -0.003 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion:105 Resp: 12485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.3 | 20.0 | 30.0 |
| 77 | 16.2 | 16.0 | 24.0 |



# Manual Integration Approval Summary



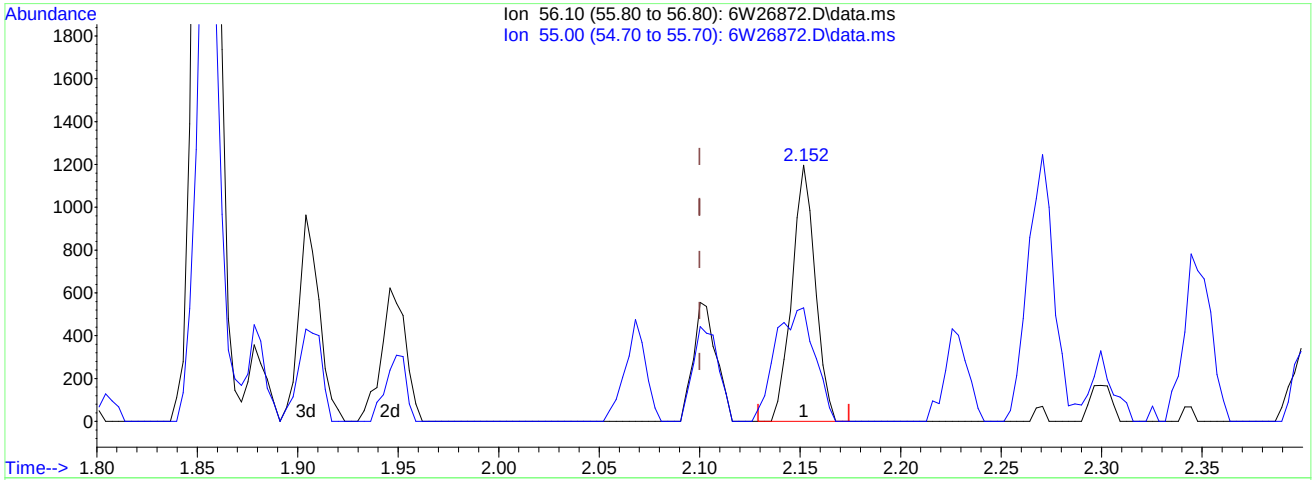
| | | | |
|---|---|---|---|
| **Sample Number:** | JD54423-15DUP | **Method:** | TO-15 |
| **Lab FileID:** | 6W26872.D | **Analyst approved:** | 11/08/22 12:07 William Cruser |
| **Injection Time:** | 11/04/22 15:00 | **Supervisor approved:** | 11/08/22 16:00 Kanya Veerawat |

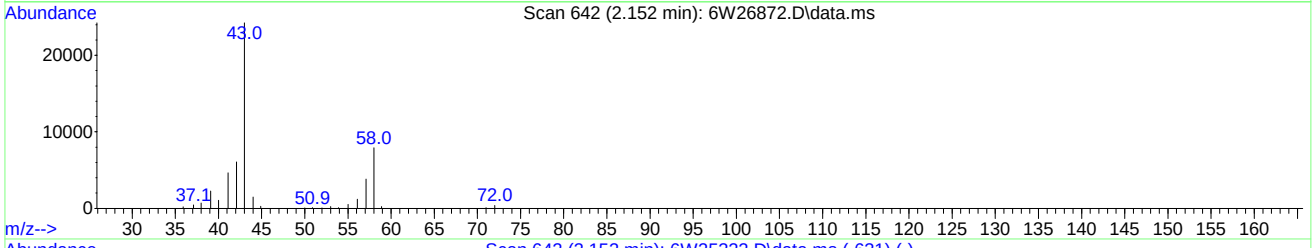
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Acrolein | 107-02-8 | | 2.10 | Missed peak |

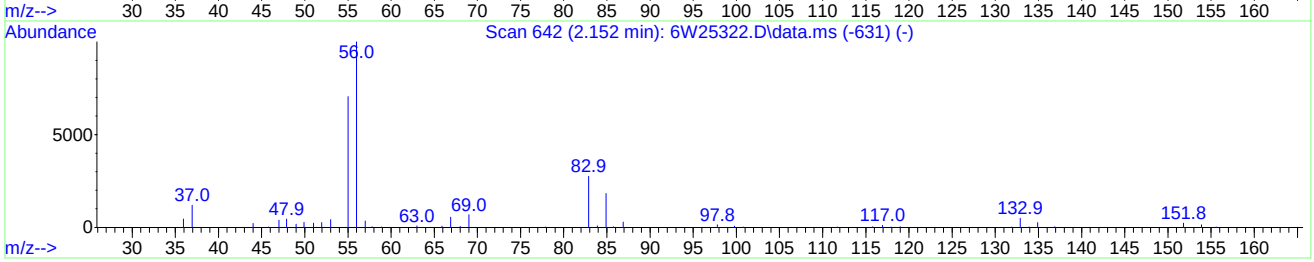
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26872.D
Acq On : 4 Nov 2022 3:00 pm
Operator : thomash
Sample : jd54423-15dup
Misc : MS63483,V6W1138,100,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 04 14:24:18 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26872.D\data.ms

(18) ACROLEIN (T)

2.152min (+0.052) 0.35PPBV

response 961

| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 100 |
| 55.00 | 70.00 | 75.23 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25452.D
Acq On : 11 Aug 2022 7:25 pm
Operator : thomash
Sample : scc(a406),cp11846
Misc : MS60869,V6W1083,100,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 12 09:10:35 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

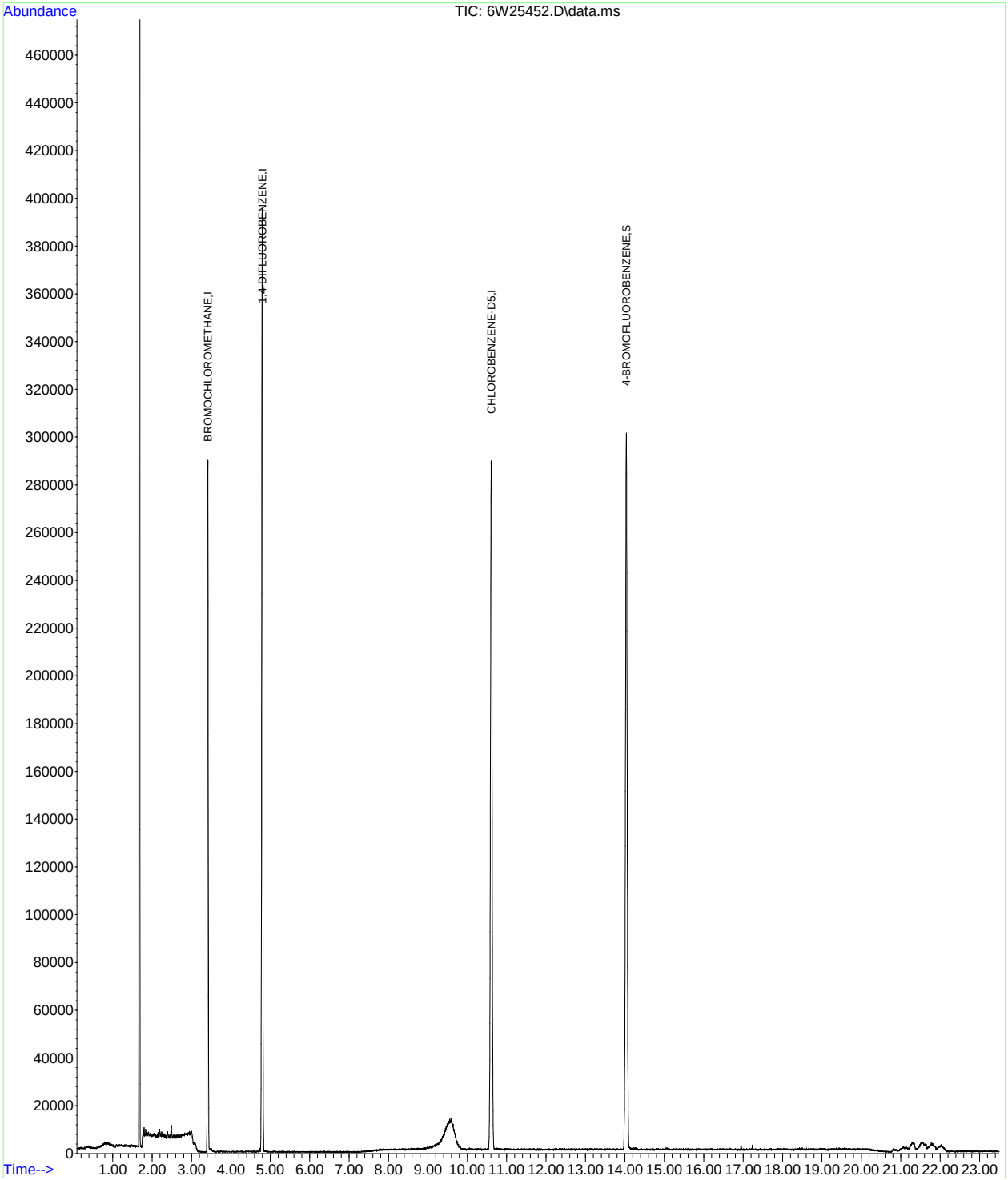
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.418 | 128 | 58536 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.794 | 114 | 298947 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.608 | 117 | 263446 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.035 | 95 | 171918 | 9.30 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25452.D
Acq On : 11 Aug 2022 7:25 pm
Operator : thomash
Sample : scc(a406),cp11846
Misc : MS60869,V6W1083,100,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 12 09:10:35 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61625.D
Acq On : 27 Sep 2022 5:24 pm
Operator : thomash
Sample : scc(m441),cp11872
Misc : MS62371,V2w2734,100,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:54:23 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

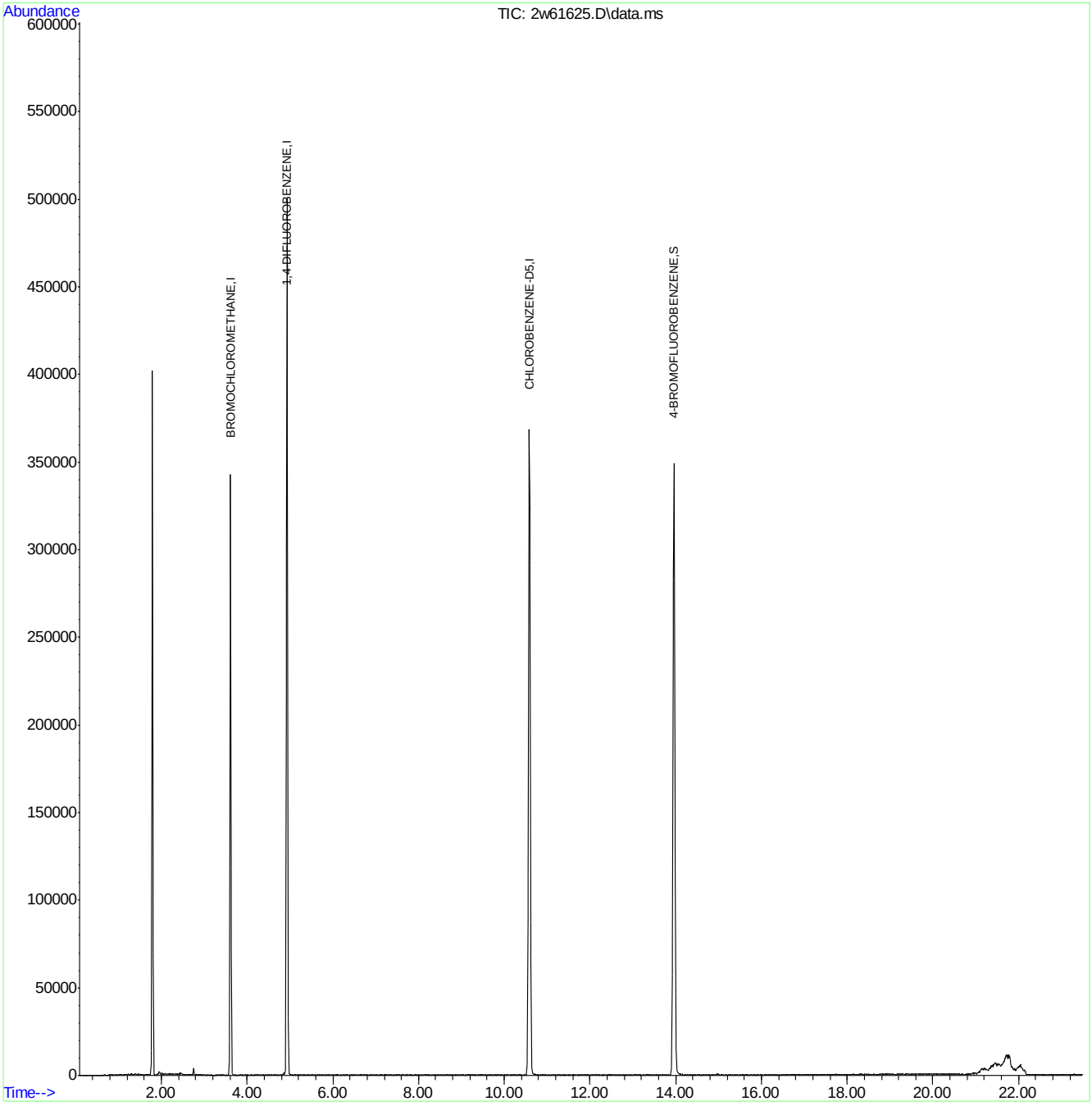
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.615 | 128 | 70657 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 391460 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.589 | 117 | 335472 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.962 | 95 | 208125 | 9.32 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61625.D
Acq On : 27 Sep 2022 5:24 pm
Operator : thomash
Sample : scc(m441),cp11872
Misc : MS62371,V2w2734,100,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:54:23 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

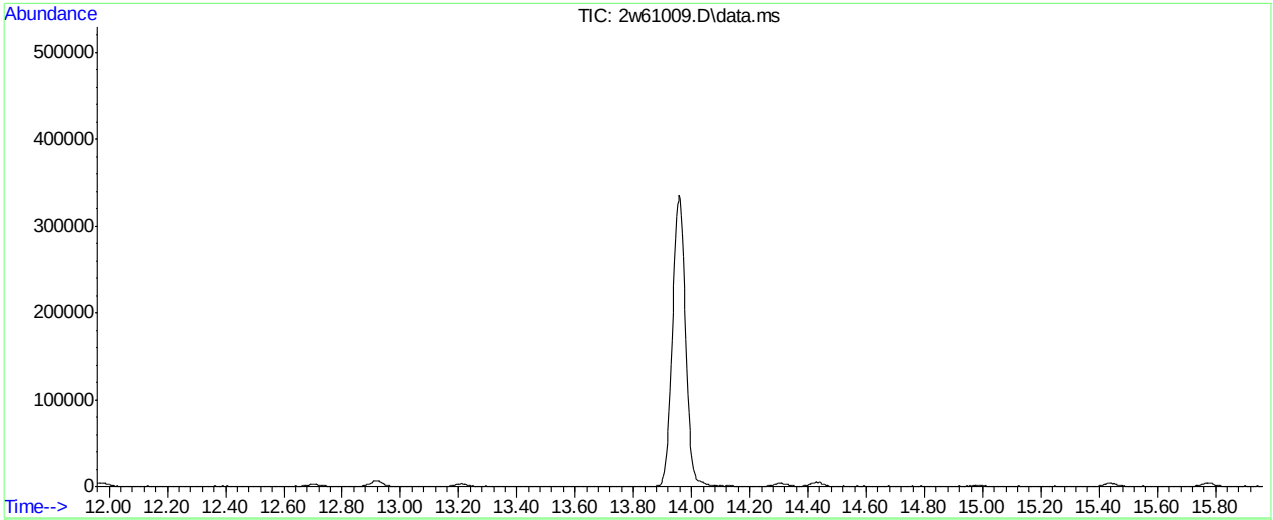



M2W2709.M Wed Sep 28 09:58:24 2022 GCMS2W Page: 2

BFB

Data File : C:\msdchem\1\DATA\2w61009.D  Vial: 1
Acq On : 19 Aug 2022 10:50 am  Operator: thomash
Sample : bfb  Inst : MS2W
Misc : MS61038,V2w2709,,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um




AutoFind: Scans 4313, 4314, 4315; Background Corrected with Scan 4286

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 21.8 | 14581 | PASS |
| 75 | 95 | 30 | 66 | 49.2 | 32835 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 66739 | PASS |
| 96 | 95 | 5 | 9 | 6.6 | 4420 | PASS |
| 173 | 174 | 0.00 | 2 | 0.4 | 243 | PASS |
| 174 | 95 | 50 | 120 | 82.7 | 55160 | PASS |
| 175 | 174 | 4 | 9 | 7.2 | 3990 | PASS |
| 176 | 174 | 93 | 101 | 96.0 | 52933 | PASS |
| 177 | 176 | 5 | 9 | 6.2 | 3276 | PASS |

2w61009.D M2W2709.M Tue Aug 23 16:19:20 2022 GCMS2W

Average of 13.956 to 13.962 min.: 2w61009.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.00 | 578 | 48.05 | 213 | 61.00 | 3481 | 74.00 | 11483 |
| 37.00 | 3714 | 49.00 | 2974 | 62.00 | 3460 | 75.00 | 32835 |
| 38.00 | 3419 | 50.00 | 14581 | 63.00 | 2789 | 76.00 | 2792 |
| 38.95 | 1240 | 51.00 | 4347 | 64.00 | 310 | 76.90 | 416 |
| 39.95 | 125 | 51.95 | 182 | 66.90 | 83 | 77.90 | 258 |
| 42.90 | 19 | 54.85 | 178 | 67.05 | 109 | 78.90 | 2812 |
| 43.95 | 460 | 56.00 | 1314 | 68.00 | 6776 | 79.85 | 677 |
| 45.00 | 688 | 57.00 | 2197 | 69.00 | 6765 | 80.90 | 2829 |
| 46.05 | 87 | 57.90 | 30 | 69.95 | 567 | 81.85 | 556 |
| 46.95 | 704 | 59.90 | 391 | 71.95 | 382 | 82.75 | 38 |
| 47.80 | 138 | 60.10 | 175 | 73.00 | 2909 | 85.90 | 46 |

Average of 13.956 to 13.962 min.: 2w61009.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 86.95 | 2619 | 105.80 | 406 | 123.70 | 61 | 140.80 | 916 |
| 87.95 | 2548 | 106.95 | 55 | 125.85 | 48 | 141.85 | 76 |
| 90.90 | 291 | 111.00 | 55 | 127.70 | 69 | 142.85 | 878 |
| 91.95 | 2050 | 111.85 | 93 | 127.90 | 157 | 145.85 | 64 |
| 92.95 | 2901 | 112.85 | 61 | 128.85 | 85 | 147.85 | 119 |
| 94.00 | 7777 | 114.80 | 72 | 129.75 | 262 | 148.85 | 50 |
| 95.00 | 66739 | 115.80 | 241 | 130.80 | 85 | 149.80 | 61 |
| 96.00 | 4420 | 116.85 | 577 | 134.80 | 152 | 152.70 | 19 |
| 96.95 | 137 | 117.70 | 134 | 136.85 | 137 | 152.95 | 47 |
| 103.85 | 336 | 117.90 | 130 | 139.50 | 18 | 154.70 | 64 |
| 104.75 | 80 | 118.85 | 324 | 139.90 | 51 | 154.85 | 119 |

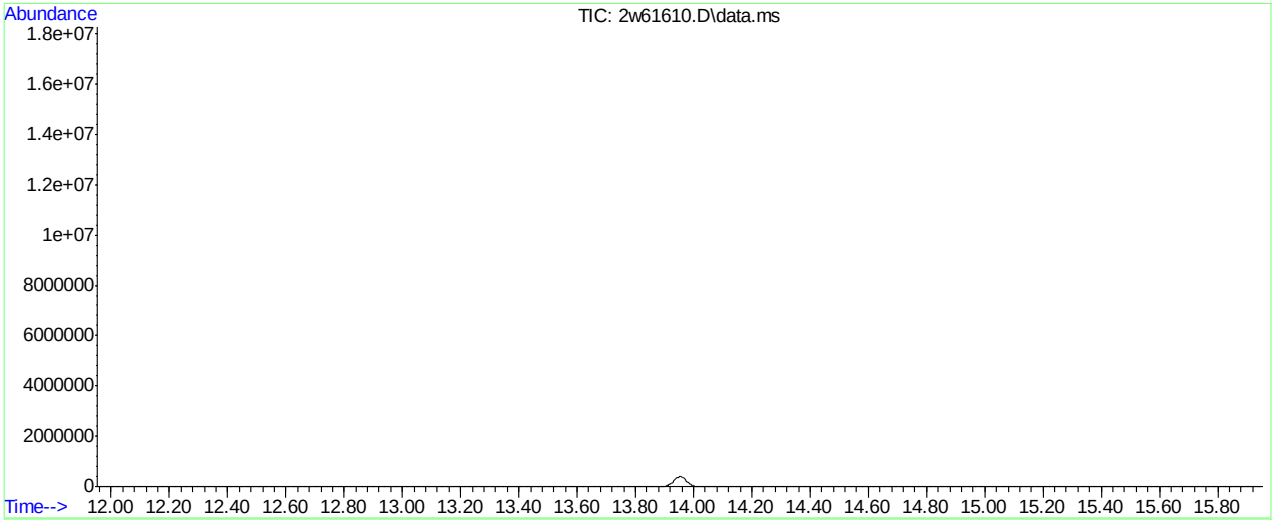
Average of 13.956 to 13.962 min.: 2w61009.D\data.ms
bfb
Modified:subtracted

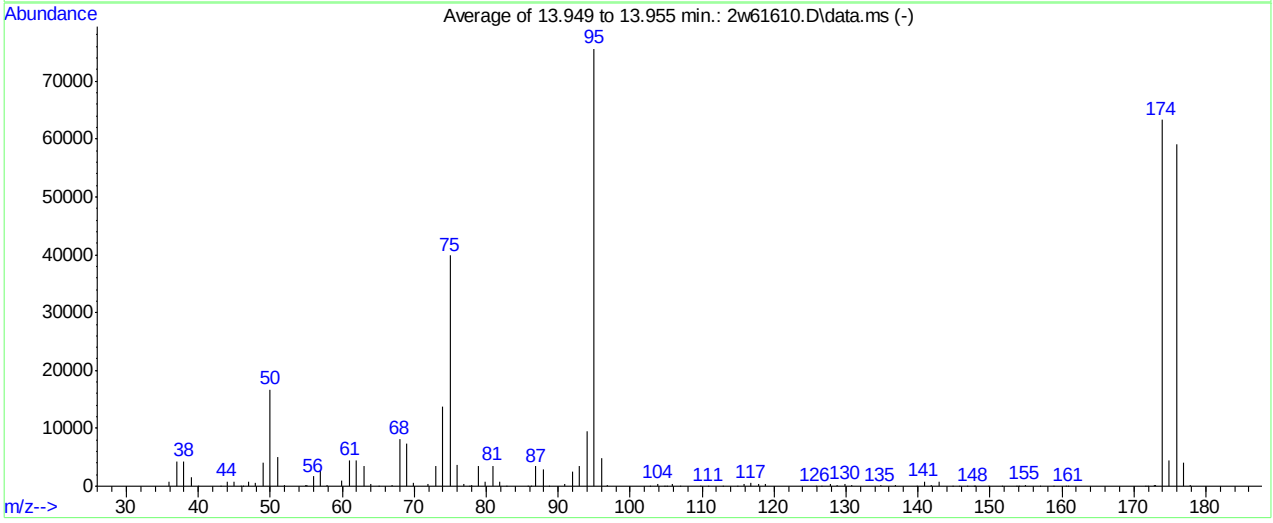
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 156.80 | 103 | | | | | | |
| 158.75 | 79 | | | | | | |
| 160.80 | 34 | | | | | | |
| 172.90 | 243 | | | | | | |
| 173.90 | 55160 | | | | | | |
| 174.90 | 3990 | | | | | | |
| 175.90 | 52933 | | | | | | |
| 176.90 | 3276 | | | | | | |
| 177.90 | 94 | | | | | | |

BFB

Data File : C:\msdchem\1\DATA\2w61610.D  Vial: 1
Acq On : 27 Sep 2022 7:25 am  Operator: thomash
Sample : bfb  Inst : MS2W
Misc : MS62367,V2w2734,,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um




AutoFind: Scans 4311, 4312, 4313; Background Corrected with Scan 4284

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 22.1 | 16757 | PASS |
| 75 | 95 | 30 | 66 | 52.7 | 39912 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 75664 | PASS |
| 96 | 95 | 5 | 9 | 6.5 | 4899 | PASS |
| 173 | 174 | 0.00 | 2 | 0.4 | 263 | PASS |
| 174 | 95 | 50 | 120 | 83.7 | 63341 | PASS |
| 175 | 174 | 4 | 9 | 7.1 | 4486 | PASS |
| 176 | 174 | 93 | 101 | 93.3 | 59096 | PASS |
| 177 | 176 | 5 | 9 | 7.0 | 4116 | PASS |

2w61610.D M2W2709.M Tue Sep 27 10:14:30 2022 GCMS2W

Average of 13.949 to 13.955 min.: 2w61610.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 35.95 | 697 | 47.95 | 612 | 61.00 | 4509 | 74.00 | 13812 |
| 37.05 | 4252 | 49.00 | 4000 | 62.00 | 4404 | 75.00 | 39912 |
| 38.00 | 4329 | 50.00 | 16757 | 63.00 | 3536 | 76.00 | 3632 |
| 39.05 | 1547 | 51.05 | 5117 | 63.95 | 301 | 76.90 | 456 |
| 39.90 | 82 | 51.95 | 161 | 65.00 | 47 | 77.60 | 58 |
| 43.10 | 34 | 54.90 | 208 | 66.90 | 202 | 78.00 | 210 |
| 43.95 | 834 | 55.10 | 104 | 68.00 | 8219 | 78.90 | 3581 |
| 44.95 | 770 | 56.00 | 1675 | 69.00 | 7467 | 79.85 | 872 |
| 45.90 | 35 | 57.00 | 2797 | 69.90 | 634 | 80.90 | 3520 |
| 46.20 | 25 | 57.95 | 202 | 71.95 | 378 | 81.85 | 732 |
| 46.95 | 800 | 59.95 | 933 | 73.00 | 3564 | 82.80 | 74 |

Average of 13.949 to 13.955 min.: 2w61610.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 85.70 | 56 | 96.90 | 169 | 115.75 | 347 | 136.85 | 128 |
| 86.20 | 41 | 102.75 | 73 | 116.80 | 540 | 139.80 | 46 |
| 86.90 | 3411 | 103.85 | 408 | 117.85 | 419 | 140.85 | 866 |
| 87.95 | 2934 | 104.75 | 82 | 118.85 | 422 | 141.80 | 118 |
| 88.70 | 26 | 105.10 | 19 | 125.80 | 18 | 142.90 | 822 |
| 90.85 | 431 | 105.85 | 390 | 126.50 | 28 | 144.85 | 72 |
| 91.95 | 2557 | 106.95 | 44 | 127.85 | 315 | 145.70 | 82 |
| 93.00 | 3415 | 109.75 | 55 | 128.80 | 220 | 146.85 | 51 |
| 94.00 | 9508 | 110.85 | 102 | 129.90 | 346 | 147.70 | 95 |
| 95.00 | 75664 | 112.85 | 90 | 130.75 | 151 | 147.90 | 90 |
| 96.00 | 4899 | 114.85 | 52 | 134.80 | 166 | 149.80 | 51 |

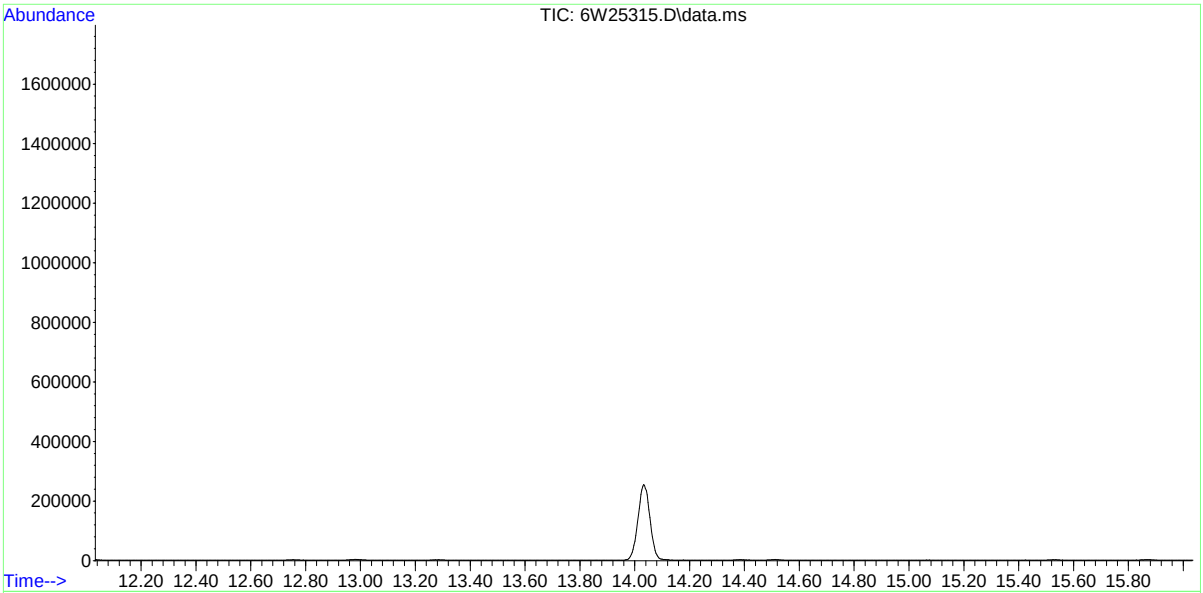
Average of 13.949 to 13.955 min.: 2w61610.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 151.60 | 38 | 172.95 | 263 | | | | |
| 153.70 | 23 | 173.90 | 63341 | | | | |
| 154.00 | 26 | 174.90 | 4486 | | | | |
| 154.90 | 229 | 175.90 | 59096 | | | | |
| 156.95 | 83 | 176.90 | 4116 | | | | |
| 158.85 | 42 | 177.80 | 162 | | | | |
| 160.60 | 18 | | | | | | |
| 160.90 | 59 | | | | | | |
| 171.65 | 38 | | | | | | |
| 171.90 | 25 | | | | | | |
| 172.80 | 133 | | | | | | |

BFB

Data File : C:\msdchem\1\data\6W25315.D  Vial: 1
Acq On : 4 Aug 2022 5:09 pm  Operator: thomash
Sample : bfb  Inst : GCMS6W
Misc : MS57063,V6W1077,,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1077.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um




AutoFind: Scans 4336, 4337, 4338; Background Corrected with Scan 4310

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 23.1 | 11429 | PASS |
| 75 | 95 | 30 | 66 | 51.8 | 25645 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 49485 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 3335 | PASS |
| 173 | 174 | 0.00 | 2 | 0.6 | 242 | PASS |
| 174 | 95 | 50 | 120 | 79.7 | 39416 | PASS |
| 175 | 174 | 4 | 9 | 7.2 | 2844 | PASS |
| 176 | 174 | 93 | 101 | 97.8 | 38541 | PASS |
| 177 | 176 | 5 | 9 | 6.6 | 2529 | PASS |

6W25315.D M6W1077.M Fri Aug 05 09:16:09 2022

Average of 14.029 to 14.036 min.: 6W25315.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.00 | 559 | 50.00 | 11429 | 63.00 | 2131 | 76.90 | 216 |
| 37.00 | 3264 | 51.00 | 3345 | 63.85 | 191 | 77.20 | 103 |
| 38.05 | 2751 | 52.00 | 150 | 66.95 | 171 | 77.95 | 188 |
| 39.05 | 1179 | 54.95 | 147 | 68.00 | 5264 | 78.85 | 2237 |
| 44.00 | 330 | 55.20 | 30 | 69.00 | 5597 | 79.90 | 556 |
| 45.00 | 634 | 56.00 | 959 | 69.95 | 506 | 80.90 | 2236 |
| 46.00 | 66 | 57.00 | 1790 | 71.95 | 306 | 81.85 | 429 |
| 46.95 | 726 | 58.10 | 62 | 73.00 | 2374 | 82.90 | 64 |
| 47.70 | 103 | 59.95 | 550 | 74.00 | 8837 | 86.00 | 31 |
| 47.95 | 263 | 61.00 | 2731 | 75.00 | 25645 | 86.95 | 2256 |
| 49.00 | 2666 | 62.00 | 2679 | 76.00 | 2320 | 87.85 | 1872 |

Average of 14.029 to 14.036 min.: 6W25315.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 90.85 | 255 | 109.80 | 18 | 134.80 | 85 | 154.90 | 48 |
| 91.95 | 1521 | 113.00 | 17 | 135.00 | 30 | 156.75 | 107 |
| 92.95 | 2164 | 115.85 | 222 | 136.85 | 111 | 158.70 | 18 |
| 94.00 | 5998 | 116.80 | 361 | 140.90 | 514 | 159.00 | 27 |
| 95.00 | 49485 | 117.85 | 264 | 141.85 | 93 | 160.90 | 29 |
| 96.00 | 3335 | 118.85 | 344 | 142.90 | 613 | 171.20 | 36 |
| 96.85 | 129 | 126.00 | 23 | 145.75 | 99 | 172.10 | 73 |
| 103.85 | 320 | 127.80 | 128 | 146.70 | 46 | 172.85 | 242 |
| 104.80 | 100 | 128.80 | 83 | 147.95 | 93 | 173.10 | 118 |
| 105.90 | 284 | 129.85 | 194 | 149.85 | 71 | 173.90 | 39416 |
| 106.90 | 21 | 130.80 | 70 | 154.70 | 53 | 174.90 | 2844 |

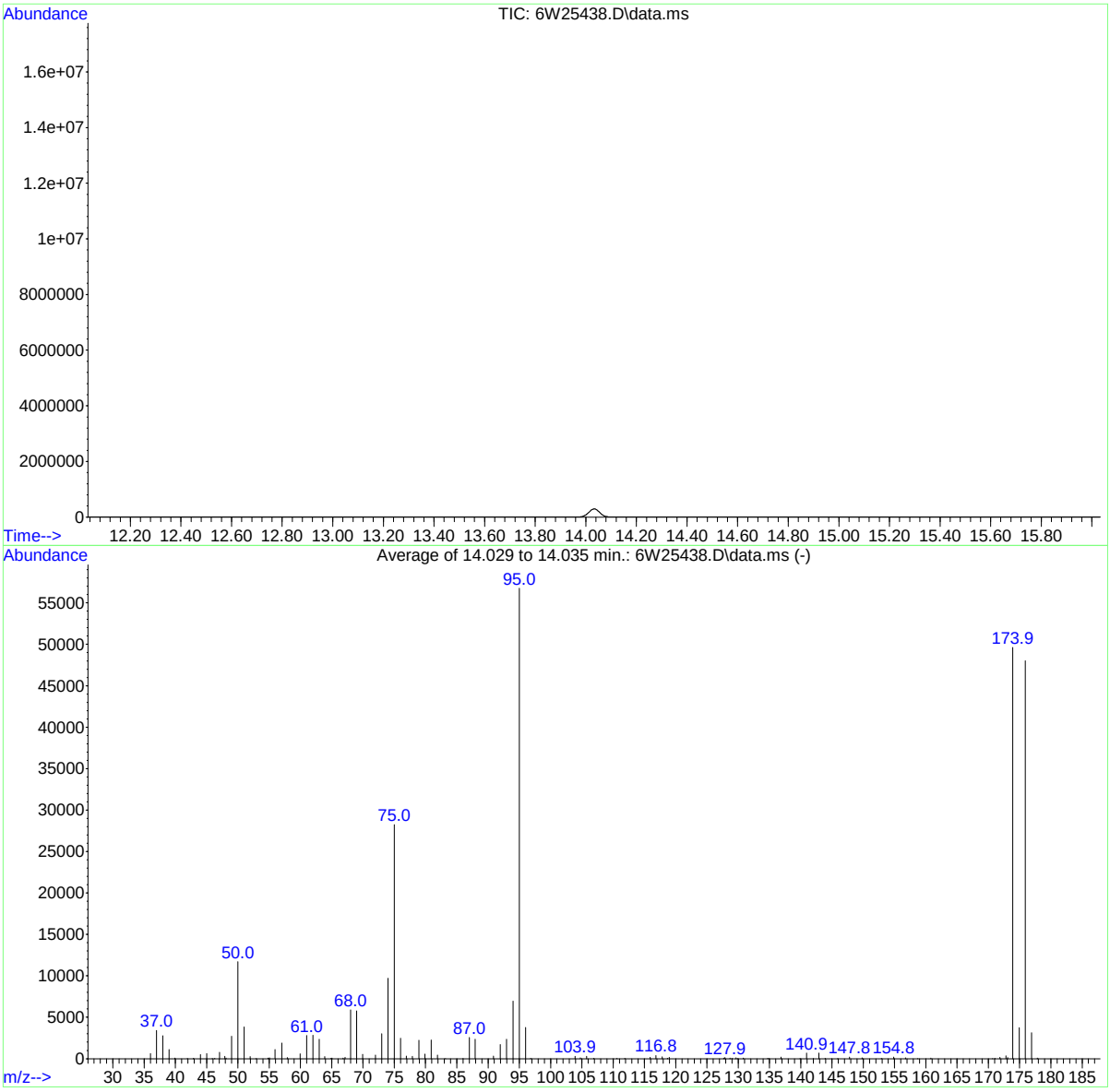
Average of 14.029 to 14.036 min.: 6W25315.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 175.90 | 38541 | | | | | | |
| 176.90 | 2529 | | | | | | |
| 177.85 | 43 | | | | | | |

BFB

Data File : C:\msdchem\1\data\6W25438.D  Vial: 1
Acq On : 11 Aug 2022 7:24 am  Operator: thomash
Sample : bfb  Inst : GCMS6W
Misc : MS61233,V6W1083,,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1077.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um




AutoFind: Scans 4336, 4337, 4338; Background Corrected with Scan 4310

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 20.6 | 11717 | PASS |
| 75 | 95 | 30 | 66 | 49.8 | 28251 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 56760 | PASS |
| 96 | 95 | 5 | 9 | 6.6 | 3771 | PASS |
| 173 | 174 | 0.00 | 2 | 0.7 | 353 | PASS |
| 174 | 95 | 50 | 120 | 87.4 | 49619 | PASS |
| 175 | 174 | 4 | 9 | 7.5 | 3741 | PASS |
| 176 | 174 | 93 | 101 | 96.8 | 48008 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 3126 | PASS |

6W25438.D M6W1077.M Thu Aug 11 14:24:28 2022

Average of 14.029 to 14.035 min.: 6W25438.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.00 | 612 | 47.05 | 761 | 57.00 | 1900 | 68.00 | 5904 |
| 37.00 | 3405 | 47.90 | 275 | 57.90 | 125 | 69.00 | 5783 |
| 38.00 | 2771 | 48.10 | 83 | 59.95 | 592 | 69.95 | 517 |
| 39.00 | 1103 | 49.00 | 2712 | 61.00 | 2807 | 72.00 | 454 |
| 39.90 | 88 | 50.00 | 11717 | 62.00 | 2836 | 73.00 | 3009 |
| 41.90 | 17 | 51.00 | 3821 | 63.00 | 2361 | 74.00 | 9698 |
| 42.90 | 48 | 51.95 | 247 | 63.90 | 267 | 75.00 | 28251 |
| 44.00 | 495 | 52.90 | 19 | 64.90 | 36 | 76.00 | 2469 |
| 45.00 | 635 | 54.80 | 75 | 65.05 | 75 | 76.95 | 331 |
| 45.90 | 25 | 55.05 | 120 | 66.80 | 80 | 77.90 | 296 |
| 46.30 | 42 | 55.95 | 1094 | 67.15 | 165 | 78.95 | 2220 |

Average of 14.029 to 14.035 min.: 6W25438.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 79.90 | 570 | 95.00 | 56760 | 117.85 | 238 | 134.90 | 24 |
| 80.90 | 2263 | 96.00 | 3771 | 118.70 | 56 | 136.85 | 185 |
| 81.90 | 439 | 96.80 | 52 | 118.95 | 172 | 139.90 | 21 |
| 83.20 | 18 | 103.90 | 288 | 127.70 | 79 | 140.95 | 696 |
| 86.00 | 31 | 104.75 | 114 | 127.90 | 142 | 142.00 | 28 |
| 87.00 | 2546 | 105.75 | 279 | 128.70 | 90 | 142.90 | 683 |
| 87.95 | 2341 | 106.90 | 39 | 129.00 | 43 | 143.90 | 42 |
| 90.85 | 306 | 110.60 | 43 | 129.65 | 113 | 145.90 | 28 |
| 91.95 | 1711 | 111.85 | 48 | 129.90 | 29 | 147.80 | 191 |
| 92.95 | 2346 | 115.90 | 178 | 130.80 | 87 | 149.80 | 103 |
| 94.00 | 6948 | 116.85 | 385 | 134.70 | 51 | 152.90 | 50 |

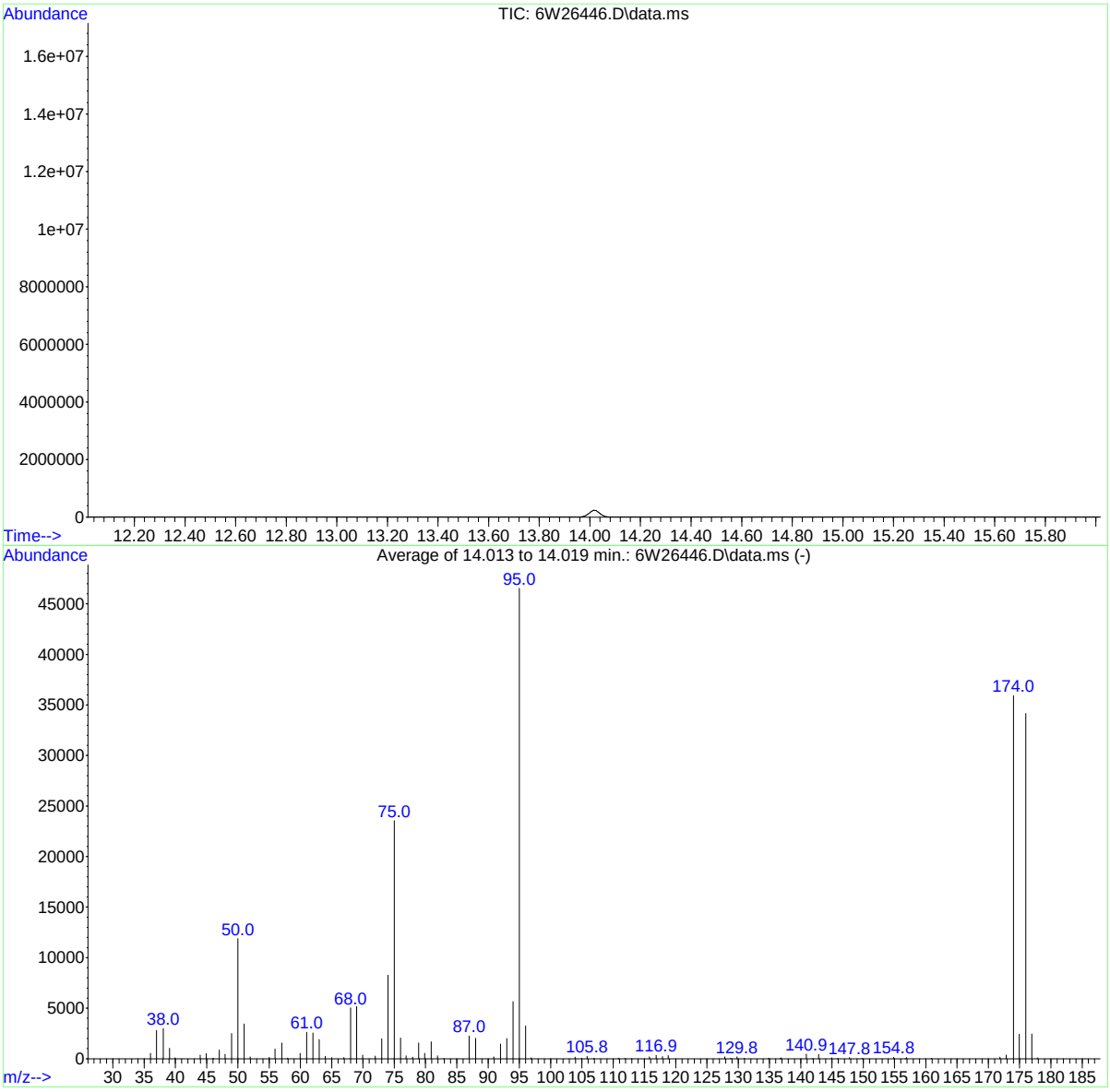
Average of 14.029 to 14.035 min.: 6W25438.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 154.85 | 186 | 175.90 | 48008 | | | | |
| 156.75 | 99 | 176.90 | 3126 | | | | |
| 158.70 | 25 | 177.85 | 90 | | | | |
| 160.80 | 70 | | | | | | |
| 170.70 | 19 | | | | | | |
| 171.05 | 41 | | | | | | |
| 171.85 | 173 | | | | | | |
| 172.80 | 353 | | | | | | |
| 173.10 | 137 | | | | | | |
| 173.90 | 49619 | | | | | | |
| 174.95 | 3741 | | | | | | |

BFB

Data File : C:\msdchem\1\data\6W26446.D  Vial: 5
Acq On : 19 Oct 2022 5:44 pm  Operator: thomash
Sample : bfb  Inst : GCMS6W
Misc : MS63121,V6W1125,,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1125.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um




AutoFind: Scans 4331, 4332, 4333; Background Corrected with Scan 4304

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 25.6 | 11894 | PASS |
| 75 | 95 | 30 | 66 | 50.6 | 23544 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 46541 | PASS |
| 96 | 95 | 5 | 9 | 7.0 | 3244 | PASS |
| 173 | 174 | 0.00 | 2 | 1.0 | 352 | PASS |
| 174 | 95 | 50 | 120 | 77.2 | 35928 | PASS |
| 175 | 174 | 4 | 9 | 6.8 | 2432 | PASS |
| 176 | 174 | 93 | 101 | 95.1 | 34165 | PASS |
| 177 | 176 | 5 | 9 | 7.1 | 2442 | PASS |

6W26446.D M6W1125.M Thu Oct 20 09:35:17 2022

Average of 14.013 to 14.019 min.: 6W26446.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.00 | 546 | 50.00 | 11894 | 63.95 | 247 | 76.90 | 286 |
| 37.00 | 2807 | 51.00 | 3433 | 65.00 | 125 | 77.95 | 172 |
| 38.05 | 3001 | 51.95 | 185 | 66.95 | 113 | 78.90 | 1543 |
| 39.05 | 1041 | 55.00 | 126 | 68.00 | 5020 | 79.85 | 527 |
| 39.95 | 91 | 55.95 | 965 | 69.00 | 5150 | 80.90 | 1687 |
| 43.95 | 372 | 57.00 | 1557 | 69.95 | 355 | 81.90 | 284 |
| 44.95 | 508 | 57.95 | 74 | 71.95 | 267 | 82.90 | 17 |
| 46.05 | 53 | 59.95 | 539 | 73.00 | 1986 | 86.95 | 2250 |
| 47.00 | 861 | 61.00 | 2622 | 74.00 | 8253 | 88.00 | 2020 |
| 47.95 | 437 | 62.00 | 2554 | 75.00 | 23544 | 90.90 | 189 |
| 49.00 | 2485 | 63.00 | 1902 | 76.00 | 2043 | 92.00 | 1449 |

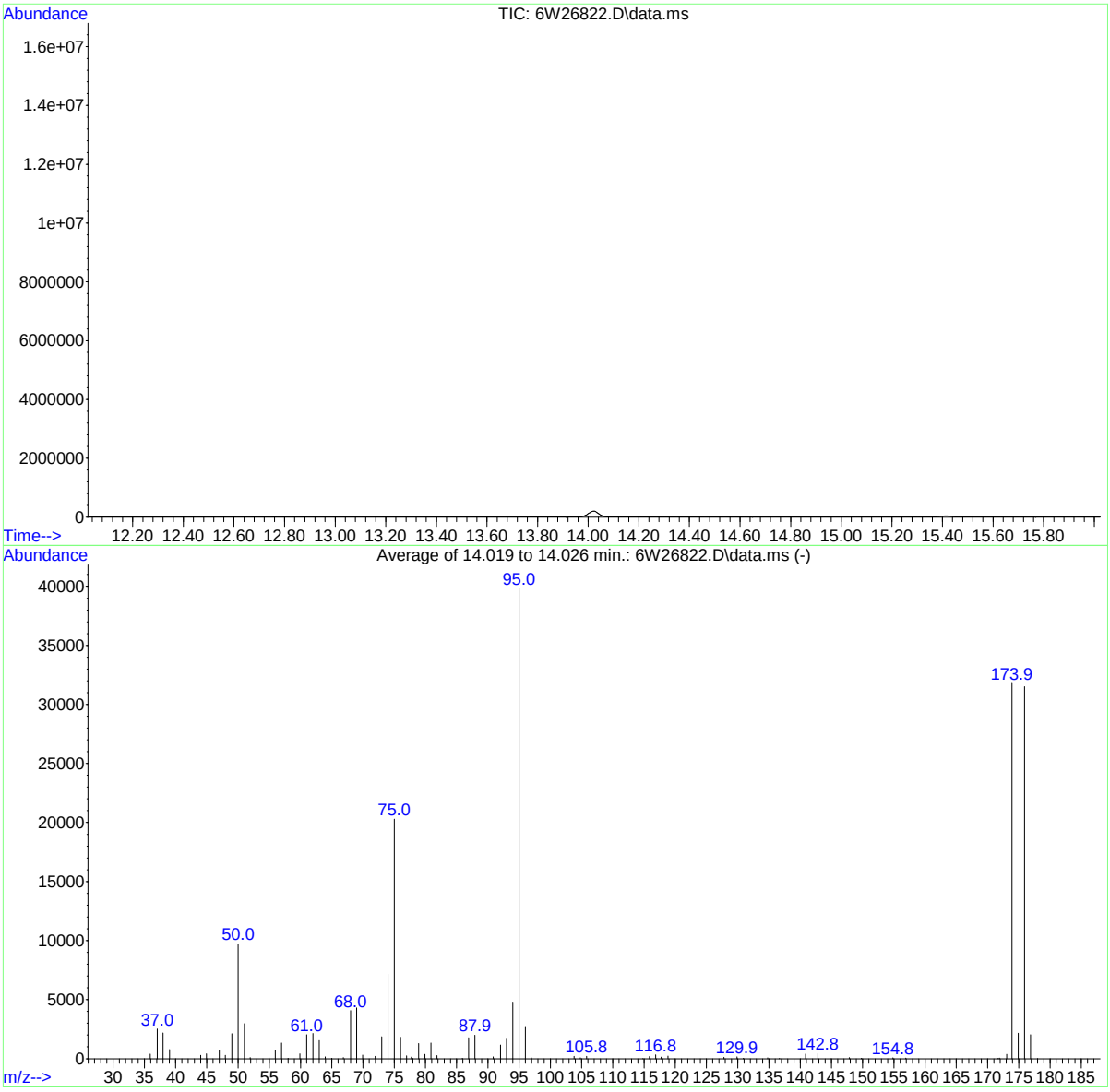
Average of 14.013 to 14.019 min.: 6W26446.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 93.00 | 2011 | 113.00 | 23 | 136.85 | 76 | 160.90 | 35 |
| 94.00 | 5659 | 115.80 | 178 | 140.90 | 450 | 171.85 | 167 |
| 95.00 | 46541 | 116.90 | 333 | 141.90 | 18 | 172.85 | 352 |
| 96.00 | 3244 | 117.90 | 205 | 142.85 | 442 | 174.00 | 35928 |
| 96.90 | 83 | 118.80 | 305 | 144.95 | 79 | 174.95 | 2432 |
| 103.90 | 155 | 127.85 | 190 | 145.90 | 28 | 176.00 | 34165 |
| 104.95 | 39 | 128.80 | 72 | 147.80 | 114 | 176.95 | 2442 |
| 105.85 | 229 | 129.80 | 191 | 149.80 | 50 | 177.85 | 82 |
| 106.90 | 48 | 130.95 | 40 | 154.85 | 129 | | |
| 110.85 | 70 | 134.85 | 74 | 156.70 | 18 | | |
| 111.95 | 40 | 136.70 | 24 | 156.90 | 103 | | |

BFB

Data File : C:\msdchem\1\data\6W26822.D  Vial: 1
Acq On : 3 Nov 2022 9:04 am  Operator: thomash
Sample : bfb  Inst : GCMS6W
Misc : MS63437,V6W1137,,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1125.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um




AutoFind: Scans 4333, 4334, 4335; Background Corrected with Scan 4306

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 24.4 | 9728 | PASS |
| 75 | 95 | 30 | 66 | 50.9 | 20293 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 39835 | PASS |
| 96 | 95 | 5 | 9 | 6.9 | 2732 | PASS |
| 173 | 174 | 0.00 | 2 | 1.2 | 369 | PASS |
| 174 | 95 | 50 | 120 | 79.8 | 31795 | PASS |
| 175 | 174 | 4 | 9 | 6.8 | 2169 | PASS |
| 176 | 174 | 93 | 101 | 99.1 | 31512 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 2021 | PASS |

6W26822.D M6W1125.M Fri Nov 04 15:11:13 2022

Average of 14.019 to 14.026 min.: 6W26822.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 35.95 | 402 | 51.95 | 102 | 66.85 | 100 | 78.00 | 21 |
| 37.05 | 2516 | 54.95 | 117 | 68.00 | 4069 | 78.90 | 1283 |
| 38.00 | 2189 | 55.95 | 728 | 69.00 | 4312 | 79.90 | 372 |
| 39.05 | 776 | 56.95 | 1330 | 69.95 | 304 | 80.90 | 1329 |
| 44.00 | 284 | 58.00 | 31 | 71.95 | 198 | 81.85 | 260 |
| 44.95 | 415 | 59.90 | 409 | 73.00 | 1855 | 85.90 | 25 |
| 47.00 | 699 | 61.00 | 2035 | 74.00 | 7176 | 86.90 | 1785 |
| 47.95 | 289 | 62.00 | 2130 | 75.00 | 20293 | 87.90 | 1985 |
| 49.00 | 2107 | 63.00 | 1545 | 76.00 | 1820 | 90.85 | 159 |
| 50.00 | 9728 | 63.95 | 151 | 77.00 | 246 | 92.00 | 1156 |
| 51.00 | 2975 | 65.00 | 22 | 77.75 | 130 | 93.00 | 1742 |

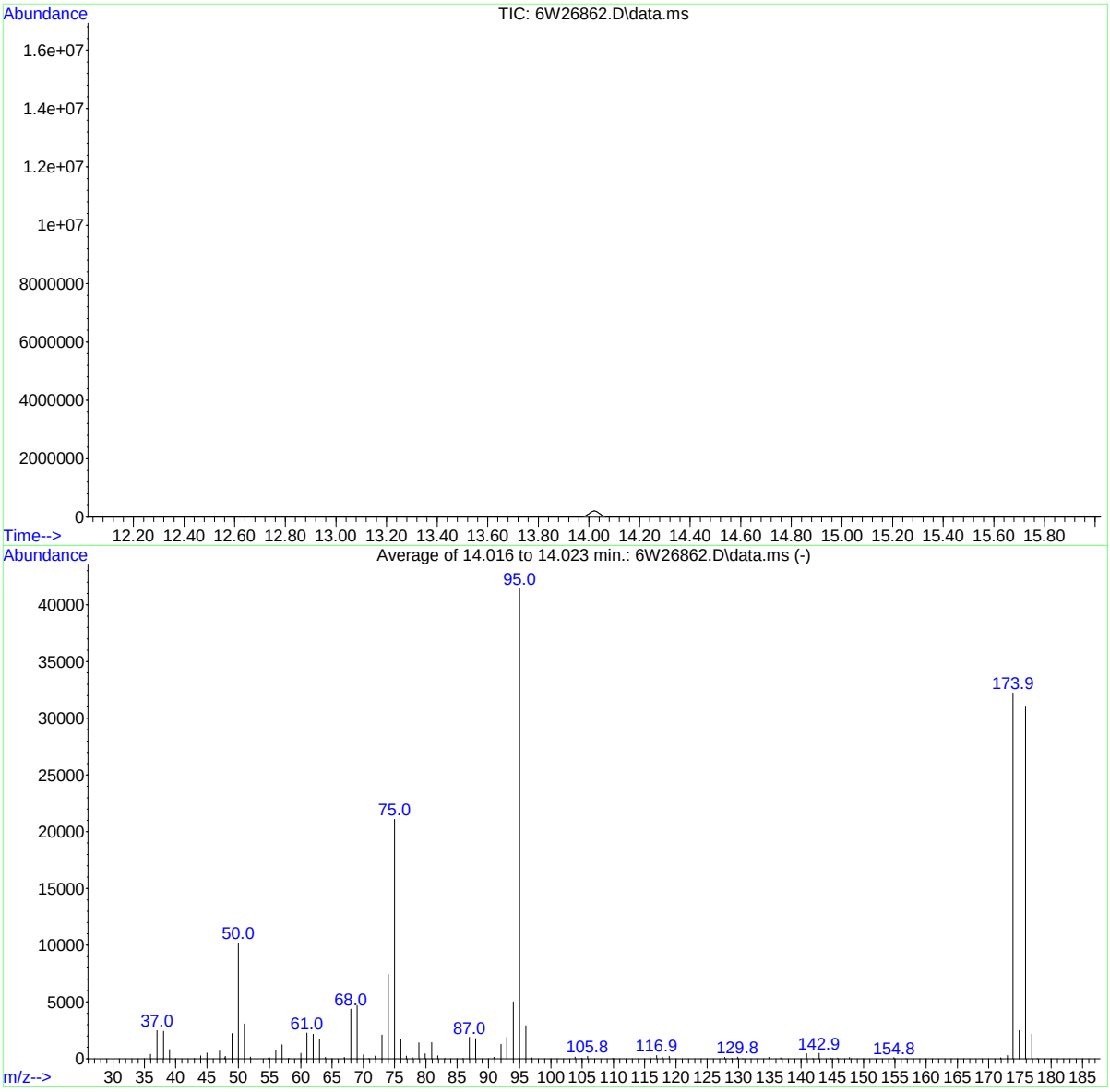
Average of 14.019 to 14.026 min.: 6W26822.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 94.00 | 4789 | 118.85 | 229 | 154.85 | 71 | | |
| 95.00 | 39835 | 127.80 | 124 | 156.90 | 51 | | |
| 96.00 | 2732 | 129.90 | 169 | 171.70 | 33 | | |
| 96.95 | 82 | 130.90 | 35 | 171.90 | 60 | | |
| 103.80 | 192 | 134.80 | 76 | 173.05 | 369 | | |
| 104.80 | 69 | 136.70 | 37 | 173.90 | 31795 | | |
| 105.80 | 204 | 140.85 | 403 | 174.90 | 2169 | | |
| 114.80 | 18 | 142.85 | 443 | 175.90 | 31512 | | |
| 115.85 | 182 | 144.80 | 26 | 176.90 | 2021 | | |
| 116.85 | 327 | 147.85 | 99 | 178.00 | 17 | | |
| 117.75 | 147 | 149.80 | 23 | | | | |

BFB

Data File : C:\msdchem\1\data\6W26862.D  Vial: 1
Acq On : 4 Nov 2022 9:04 am  Operator: thomash
Sample : bfb  Inst : GCMS6W
Misc : MS63483,V6W1138,,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1125.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um




AutoFind: Scans 4332, 4333, 4334; Background Corrected with Scan 4306

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 24.6 | 10199 | PASS |
| 75 | 95 | 30 | 66 | 50.8 | 21080 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 41456 | PASS |
| 96 | 95 | 5 | 9 | 7.0 | 2916 | PASS |
| 173 | 174 | 0.00 | 2 | 0.9 | 288 | PASS |
| 174 | 95 | 50 | 120 | 77.7 | 32229 | PASS |
| 175 | 174 | 4 | 9 | 7.8 | 2498 | PASS |
| 176 | 174 | 93 | 101 | 96.2 | 31000 | PASS |
| 177 | 176 | 5 | 9 | 7.1 | 2186 | PASS |

6W26862.D M6W1125.M Sun Nov 06 15:43:21 2022

Average of 14.016 to 14.023 min.: 6W26862.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 35.95 | 396 | 50.00 | 10199 | 63.00 | 1685 | 76.00 | 1727 |
| 37.00 | 2480 | 51.00 | 3071 | 63.95 | 128 | 76.90 | 237 |
| 38.05 | 2424 | 51.95 | 144 | 66.95 | 117 | 77.85 | 119 |
| 39.00 | 804 | 54.80 | 27 | 68.00 | 4363 | 78.90 | 1410 |
| 43.00 | 18 | 55.00 | 81 | 69.00 | 4679 | 79.90 | 427 |
| 44.00 | 261 | 56.00 | 762 | 70.00 | 354 | 80.95 | 1426 |
| 45.00 | 502 | 57.00 | 1223 | 70.80 | 17 | 81.90 | 252 |
| 47.00 | 683 | 58.10 | 26 | 71.90 | 236 | 83.10 | 17 |
| 47.80 | 79 | 60.00 | 475 | 73.00 | 2094 | 85.90 | 17 |
| 47.95 | 204 | 61.00 | 2262 | 74.00 | 7434 | 86.95 | 1891 |
| 49.00 | 2234 | 62.00 | 2149 | 75.00 | 21080 | 87.95 | 1783 |

Average of 14.016 to 14.023 min.: 6W26862.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 90.90 | 133 | 115.85 | 158 | 141.90 | 19 | 175.90 | 31000 |
| 92.00 | 1265 | 116.90 | 286 | 142.90 | 483 | 176.90 | 2186 |
| 92.95 | 1886 | 117.85 | 153 | 144.75 | 64 | 177.80 | 23 |
| 94.00 | 5016 | 118.90 | 217 | 145.85 | 48 | | |
| 95.00 | 41456 | 127.80 | 121 | 147.75 | 111 | | |
| 96.00 | 2916 | 128.90 | 40 | 154.85 | 109 | | |
| 96.95 | 84 | 129.85 | 138 | 156.80 | 22 | | |
| 103.85 | 150 | 130.70 | 18 | 171.90 | 75 | | |
| 104.90 | 39 | 134.85 | 113 | 173.00 | 288 | | |
| 105.85 | 211 | 136.75 | 71 | 173.90 | 32229 | | |
| 109.90 | 24 | 140.90 | 455 | 174.90 | 2498 | | |

Manual Integrations APPROVED
(compounds with "m" flag)
Kanya Veerawat
08/24/22 14:42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61010.D
Acq On : 19 Aug 2022 11:22 am
Operator : thomash
Sample : ic2709-0.04
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:46:55 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:21:21 2022
Response via : Initial Calibration

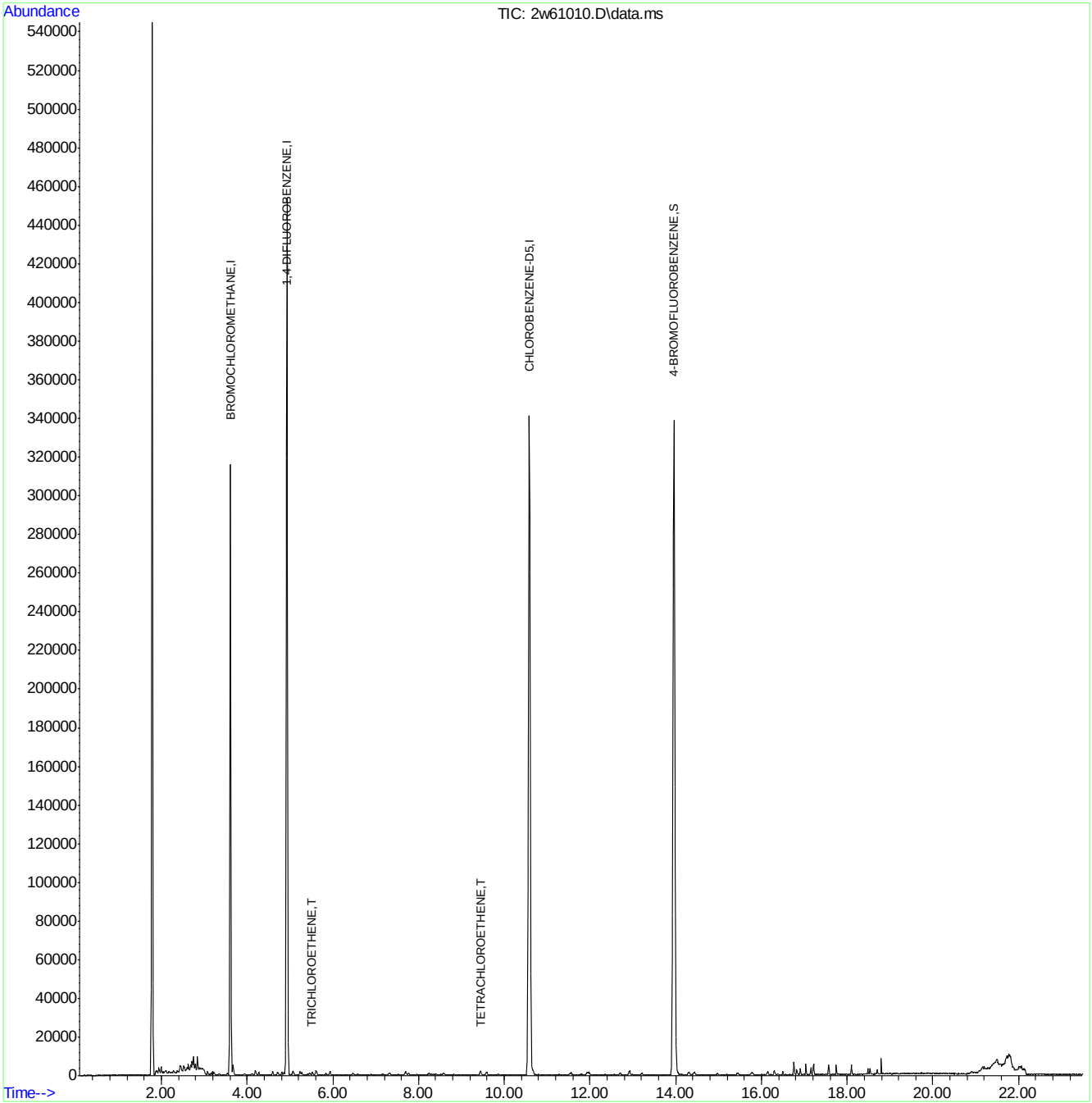
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.608 | 128 | 65497 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 359956 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 318930 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.959 | 95 | 206801 | 9.74 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 55) TRICHLOROETHENE | 5.515 | 95 | 461m | 0.03 | PPBV | |
| 72) TETRACHLOROETHENE | 9.451 | 164 | 666 | 0.04 | PPBV | # 40 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61010.D
Acq On : 19 Aug 2022 11:22 am
Operator : thomash
Sample : ic2709-0.04
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:46:55 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:21:21 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



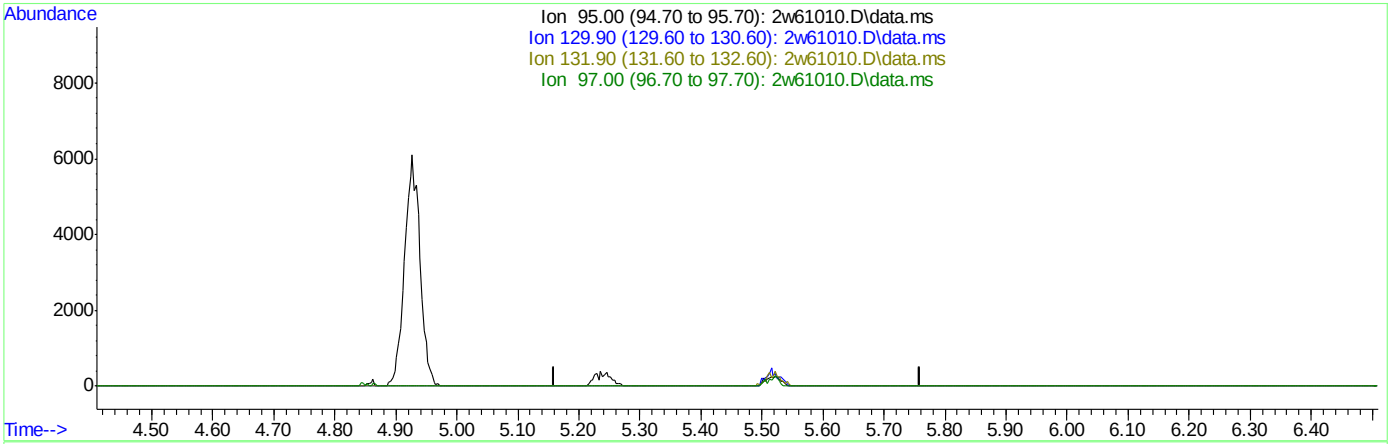
| | | | |
|---|---|---|---|
| **Sample Number:** | V2W2709-IC2709 | **Method:** | TO-15 |
| **Lab FileID:** | 2W61010.D | **Analyst approved:** | 08/23/22 20:59 Benjamin Kim |
| **Injection Time:** | 08/19/22 11:22 | **Supervisor approved:** | 08/24/22 14:42 Kanya Veerawat |

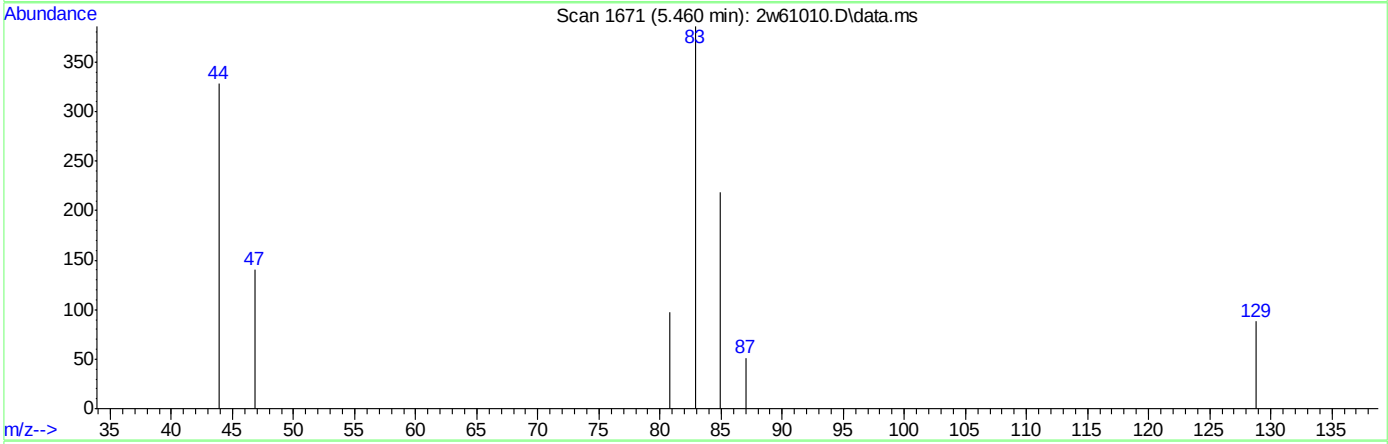
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichloroethylene | 79-01-6 | | 5.52 | Poor instrument integration |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61010.D
Acq On : 19 Aug 2022 11:22 am
Operator : thomash
Sample : ic2709-0.04
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 19 12:31:07 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed May 18 07:44:07 2022
Response via : Initial Calibration




TIC: 2w61010.D\data.ms

(55) TRICHLOROETHENE (T)

5.460min (-5.460) 0.00PPBV

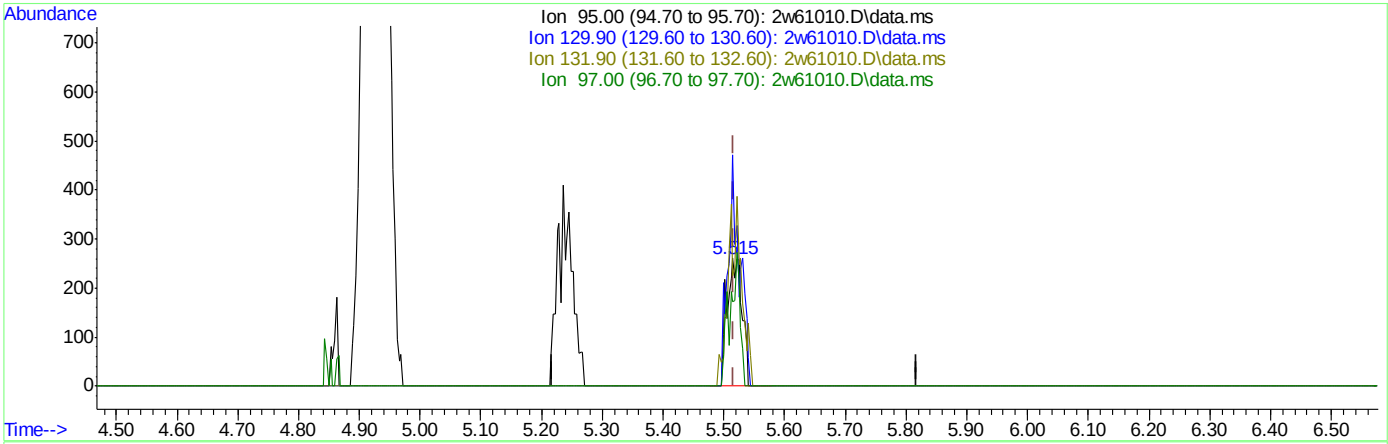
response 0

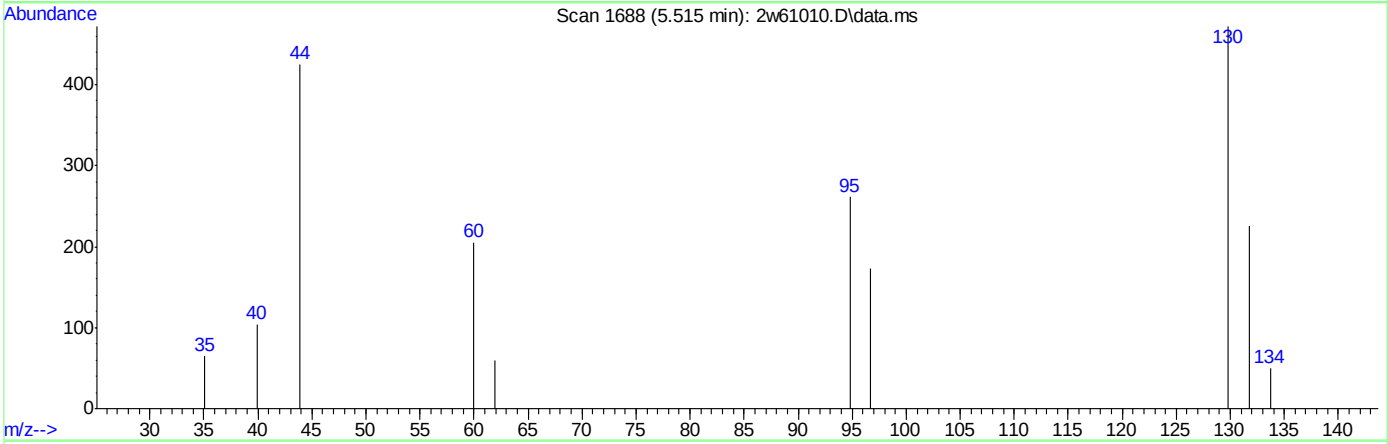
| Ion | Exp% | Act% |
|---|---|---|
| 95.00 | 100 | 0.00 |
| 129.90 | 104.00 | 0.00# |
| 131.90 | 99.70 | 0.00# |
| 97.00 | 64.10 | 0.00# |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61010.D
Acq On : 19 Aug 2022 11:22 am
Operator : thomash
Sample : ic2709-0.04
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:45:16 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:21:21 2022
Response via : Initial Calibration




TIC: 2w61010.D\data.ms

(55) TRICHLOROETHENE (T)

5.515min (-0.003) 0.03PPBV m

response 461

| Ion | Exp% | Act% |
|---|---|---|
| 95.00 | 100 | 100 |
| 129.90 | 103.50 | 0.00# |
| 131.90 | 99.10 | 0.00# |
| 97.00 | 65.00 | 0.00# |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/24/22 14:42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 12:14:03 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.612 | 128 | 64903 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 355487 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 317521 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.956 | 95 | 206670 | 9.78 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.837 | 65 | 560 | 0.10 | PPBV | # | 48 |
| 4) CHLORODIFLUOROMETHANE | 1.860 | 67 | 226m | 0.09 | PPBV | | |
| 5) CHLOROTRIFLUOROETHENE | 1.872 | 116 | 1390 | 0.10 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.895 | 85 | 3356 | 0.10 | PPBV | # | 71 |
| 7) PROPYLENE | 1.872 | 41 | 754 | 0.12 | PPBV | # | 15 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.943 | 65 | 2440 | 0.10 | PPBV | # | 27 |
| 9) FREON 114 | 1.991 | 85 | 2873 | 0.10 | PPBV | | 98 |
| 10) CHLOROMETHANE | 1.950 | 52 | 371m | 0.11 | PPBV | | |
| 11) VINYL CHLORIDE | 2.033 | 62 | 1229 | 0.11 | PPBV | # | 50 |
| 12) 1,3-BUTADIENE | 2.085 | 54 | 843 | 0.10 | PPBV | # | 82 |
| 13) N-BUTANE | 2.104 | 43 | 1865 | 0.12 | PPBV | # | 64 |
| 14) BROMOMETHANE | 2.184 | 94 | 1132 | 0.11 | PPBV | # | 95 |
| 15) CHLOROETHANE | 2.245 | 64 | 628 | 0.10 | PPBV | # | 46 |
| 16) DICHLOROFLUOROMETHANE | 2.278 | 67 | 2428 | 0.10 | PPBV | # | 85 |
| 17) ACETONITRILE | 2.371 | 41 | 1075 | 0.12 | PPBV | # | 79 |
| 18) ACROLEIN | 2.419 | 56 | 214m | 0.05 | PPBV | | |
| 19) FREON 123 | 2.435 | 83 | 2621 | 0.10 | PPBV | | 96 |
| 20) FREON 123A | 2.451 | 117 | 1635 | 0.11 | PPBV | | 97 |
| 21) TRICHLOROFLUOROMETHANE | 2.522 | 101 | 3215 | 0.10 | PPBV | # | 1 |
| 22) ISOPROPYL ALCOHOL | 2.538 | 45 | 3327 | 0.12 | PPBV | # | 88 |
| 23) ACETONE | 2.467 | 58 | 1182 | 0.15 | PPBV | | 93 |
| 24) PENTANE | 2.628 | 42 | 1748 | 0.12 | PPBV | | 85 |
| 25) IODOMETHANE | 2.689 | 142 | 3305 | 0.10 | PPBV | | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.712 | 96 | 1311 | 0.10 | PPBV | | 96 |
| 27) CARBON DISULFIDE | 2.844 | 76 | 3679 | 0.09 | PPBV | # | 84 |
| 28) ETHANOL | 2.284 | 45 | 799 | 0.16 | PPBV | # | 41 |
| 29) BROMOETHENE | 2.381 | 106 | 948 | 0.09 | PPBV | # | 100 |
| 30) ACRYLONITRILE | 2.602 | 52 | 979 | 0.10 | PPBV | # | 85 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 2310 | 0.18 | PPBV | | 92 |
| 32) 3-CHLOROPROPENE | 2.789 | 76 | 670 | 0.10 | PPBV | # | 56 |
| 33) FREON 113 | 2.847 | 151 | 2093 | 0.10 | PPBV | | 97 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.075 | 96 | 1055 | 0.10 | PPBV | | 97 |
| 35) TERTIARY BUTYL ALCOHOL | 2.725 | 59 | 3546 | 0.10 | PPBV | # | 80 |
| 36) METHYL TERTIARY BUTYL ... | 3.194 | 73 | 2855 | 0.10 | PPBV | # | 84 |
| 37) TETRAHYDROFURAN | 3.930 | 72 | 339m | 0.07 | PPBV | | |
| 38) HEXANE | 3.667 | 57 | 1774 | 0.09 | PPBV | | 90 |
| 39) VINYL ACETATE | 3.233 | 86 | 201m | 0.08 | PPBV | | |
| 40) 1,1-DICHLOROETHANE | 3.155 | 63 | 1808 | 0.09 | PPBV | # | 88 |
| 41) METHYL ETHYL KETONE | 3.335 | 72 | 351m | 0.07 | PPBV | | |
| 42) CIS-1,2-DICHLOROETHENE | 3.538 | 96 | 1146 | 0.10 | PPBV | | 99 |
| 43) DIISOPROPYL ETHER | 3.673 | 59 | 517 | 0.09 | PPBV | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 12:14:03 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 45) METHYL ACRYLATE | 3.663 | 55 | 1929 | 0.09 | PPBV | # | 66 |
| 46) CHLOROFORM | 3.686 | 83 | 2328 | 0.10 | PPBV | | 92 |
| 47) 2,4-DIMETHYLPENTANE | 4.194 | 57 | 2171 | 0.10 | PPBV | | 98 |
| 48) 1,1,1-TRICHLOROETHANE | 4.274 | 97 | 2237 | 0.10 | PPBV | | 97 |
| 49) CARBON TETRACHLORIDE | 4.705 | 117 | 2055 | 0.09 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 4.107 | 62 | 1503 | 0.09 | PPBV | # | 100 |
| 51) BENZENE | 4.596 | 78 | 3427 | 0.10 | PPBV | | 98 |
| 53) CYCLOHEXANE | 4.814 | 84 | 1478 | 0.10 | PPBV | | 91 |
| 54) 2,3-DIMETHYLPENTANE | 5.078 | 71 | 694 | 0.09 | PPBV | # | 96 |
| 55) TRICHLOROETHENE | 5.522 | 95 | 1399 | 0.09 | PPBV | | 89 |
| 56) 1,2-DICHLOROPROPANE | 5.277 | 63 | 1360 | 0.10 | PPBV | # | 74 |
| 57) DIBROMOMETHANE | 5.236 | 174 | 1596 | 0.10 | PPBV | | 92 |
| 58) ETHYL ACRYLATE | 5.406 | 55 | 2085 | 0.08 | PPBV | # | 74 |
| 59) BROMODICHLOROMETHANE | 5.461 | 83 | 2192 | 0.09 | PPBV | | 100 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 5984 | 0.10 | PPBV | # | 96 |
| 62) HEPTANE | 5.933 | 43 | 1916 | 0.10 | PPBV | | 92 |
| 63) METHYL METHACRYLATE | 5.837 | 69 | 1025 | 0.09 | PPBV | # | 77 |
| 64) METHYL ISOBUTYL KETONE | 6.593 | 58 | 750 | 0.08 | PPBV | # | 79 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.461 | 75 | 1386 | 0.08 | PPBV | # | 68 |
| 66) TOLUENE | 7.695 | 91 | 4413 | 0.10 | PPBV | | 93 |
| 67) 1,3-DICHLOROPROPANE | 7.756 | 76 | 1971 | 0.10 | PPBV | # | 91 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.155 | 75 | 1319 | 0.08 | PPBV | # | 78 |
| 69) 1,1,2-TRICHLOROETHANE | 7.322 | 83 | 1181 | 0.09 | PPBV | | 95 |
| 70) 2-HEXANONE | 8.293 | 58 | 221m | 0.39 | PPBV | | |
| 71) ETHYL METHACRYLATE | 8.412 | 69 | 1160 | 0.07 | PPBV | # | 84 |
| 72) TETRACHLOROETHENE | 9.454 | 164 | 1751 | 0.10 | PPBV | # | 87 |
| 73) DIBROMOCHLOROMETHANE | 8.239 | 129 | 1909 | 0.08 | PPBV | # | 86 |
| 74) 1,2-DIBROMOETHANE | 8.586 | 107 | 2023 | 0.09 | PPBV | # | 93 |
| 75) OCTANE | 9.589 | 43 | 2397 | 0.09 | PPBV | | 93 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.673 | 131 | 1554 | 0.09 | PPBV | # | 37 |
| 78) CHLOROBENZENE | 10.663 | 112 | 3250 | 0.10 | PPBV | | 93 |
| 79) ETHYLBENZENE | 11.544 | 91 | 4979 | 0.09 | PPBV | | 98 |
| 80) M,P-XYLENE | 11.978 | 91 | 7627m | 0.21 | PPBV | | |
| 81) O-XYLENE | 12.914 | 91 | 3812 | 0.09 | PPBV | | 97 |
| 82) STYRENE | 12.702 | 104 | 2323 | 0.08 | PPBV | | 95 |
| 83) NONANE | 14.026 | 43 | 2527 | 0.10 | PPBV | | 95 |
| 84) BROMOFORM | 11.782 | 173 | 1271 | 0.06 | PPBV | # | 96 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.917 | 83 | 2922 | 0.09 | PPBV | # | 94 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.206 | 75 | 2200 | 0.10 | PPBV | # | 99 |
| 88) ISOPROPYLBENZENE | 14.428 | 120 | 1654 | 0.09 | PPBV | | 90 |
| 89) BROMOBENZENE | 14.313 | 77 | 2650 | 0.09 | PPBV | | 98 |
| 90) 2-CHLOROTOLUENE | 15.451 | 126 | 1358m | 0.09 | PPBV | | |
| 91) N-PROPYLBENZENE | 15.779 | 120 | 1342 | 0.08 | PPBV | # | 62 |
| 92) 4-ETHYLTOLUENE | 16.145 | 105 | 4938 | 0.08 | PPBV | # | 98 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.296 | 105 | 4146 | 0.08 | PPBV | # | 91 |
| 94) ALPHA-METHYLSTYRENE | 16.502 | 118 | 1628 | 0.08 | PPBV | | 96 |
| 95) TERT-BUTYLBENZENE | 16.753 | 134 | 990 | 0.08 | PPBV | | 89 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.759 | 105 | 4251 | 0.08 | PPBV | | 97 |
| 97) BENZYL CHLORIDE | 16.849 | 91 | 1346 | 0.04 | PPBV | # | 60 |
| 98) M-DICHLOROBENZENE | 16.824 | 146 | 3030 | 0.09 | PPBV | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 12:14:03 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration

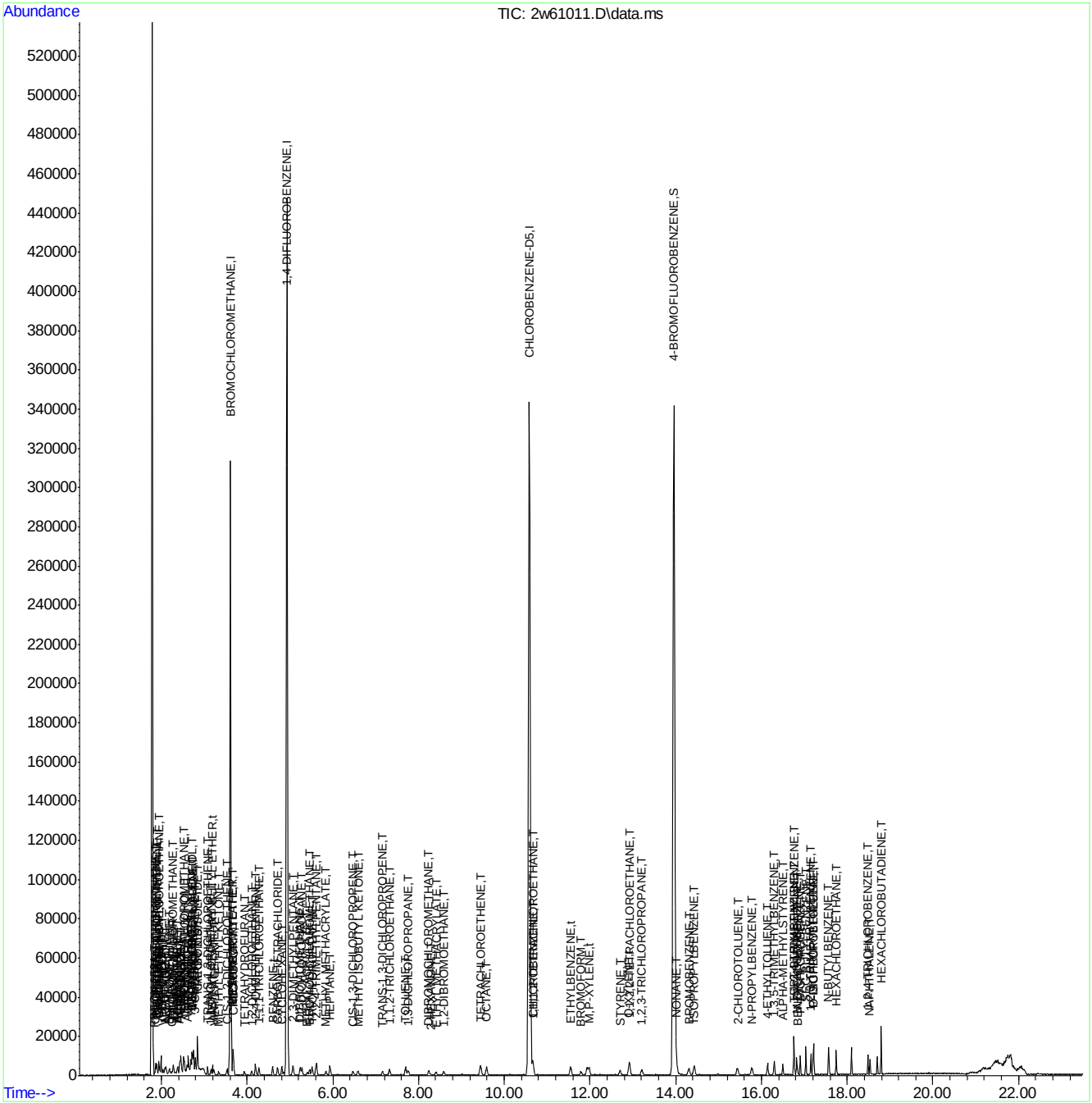
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 99) | P-DICHLOROBENZENE | 16.907 | 146 | 3245 | 0.09 | PPBV | | 93 |
| 100) | O-DICHLOROBENZENE | 17.203 | 146 | 3018 | 0.09 | PPBV | | 97 |
| 101) | SEC-BUTYLBENZENE | 17.039 | 134 | 1276 | 0.08 | PPBV | | 93 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.148 | 105 | 4165 | 0.08 | PPBV | # | 91 |
| 103) | P-ISOPROPYLTOLUENE | 17.222 | 134 | 1420 | 0.08 | PPBV | | 99 |
| 104) | N-BUTYLBENZENE | 17.566 | 134 | 1266 | 0.08 | PPBV | | 89 |
| 105) | HEXACHLOROETHANE | 17.746 | 117 | 1120 | 0.06 | PPBV | | 91 |
| 106) | HEXACHLOROBUTADIENE | 18.798 | 225 | 2054 | 0.07 | PPBV | # | 1 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.486 | 180 | 1844 | 0.06 | PPBV | | 95 |
| 108) | NAPHTHALENE | 18.531 | 128 | 3704 | 0.05 | PPBV | # | 70 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 12:14:03 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



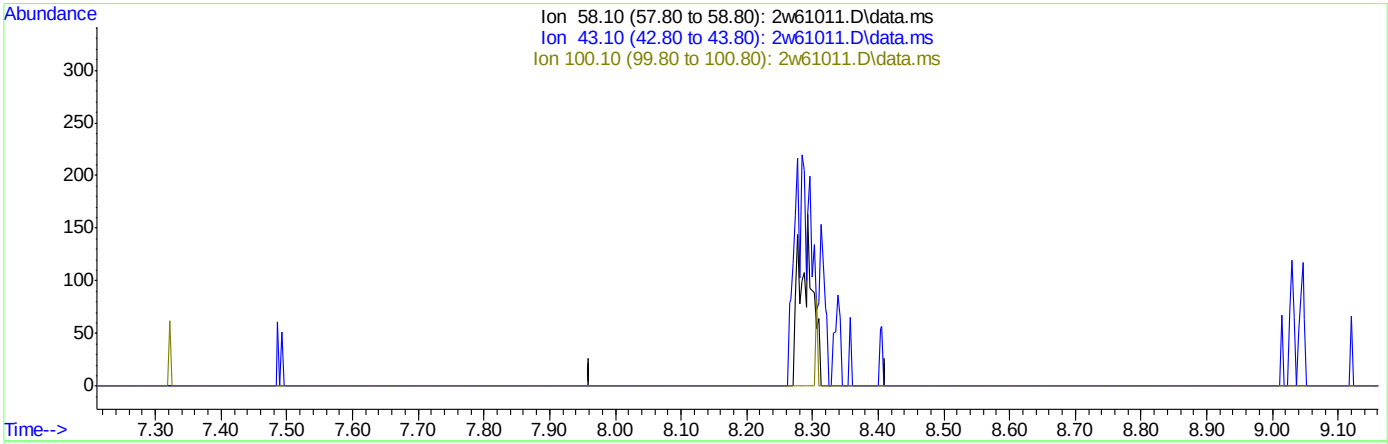
**Sample Number:** V2W2709-IC2709 **Method:** TO-15
**Lab FileID:** 2W61011.D **Analyst approved:** 08/24/22 12:25 Benjamin Kim
**Injection Time:** 08/19/22 11:55 **Supervisor approved:** 08/24/22 14:42 Kanya Veerawat

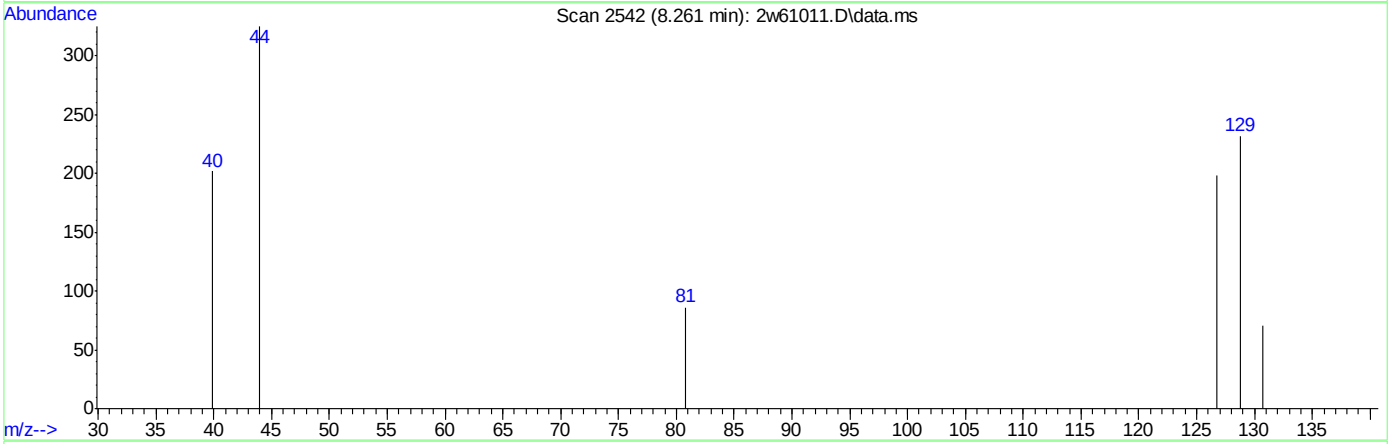
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Chlorodifluoromethane | 75-45-6 | | 1.86 | Poor instrument integration |
| Chloromethane | 74-87-3 | | 1.95 | Poor instrument integration |
| Acrolein | 107-02-8 | | 2.42 | Poor instrument integration |
| Vinyl Acetate | 108-05-4 | | 3.23 | Poor instrument integration |
| Methyl ethyl ketone | 78-93-3 | | 3.34 | Poor instrument integration |
| Tetrahydrofuran | 109-99-9 | | 3.93 | Poor instrument integration |
| 2-Hexanone | 591-78-6 | | 8.29 | Poor instrument integration |
| m,p-Xylene | | | 11.98 | Poor instrument integration |
| 2-Chlorotoluene | 95-49-8 | | 15.45 | Poor instrument integration |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(70) 2-HEXANONE (T)

8.261min (-8.261) 0.00PPBV

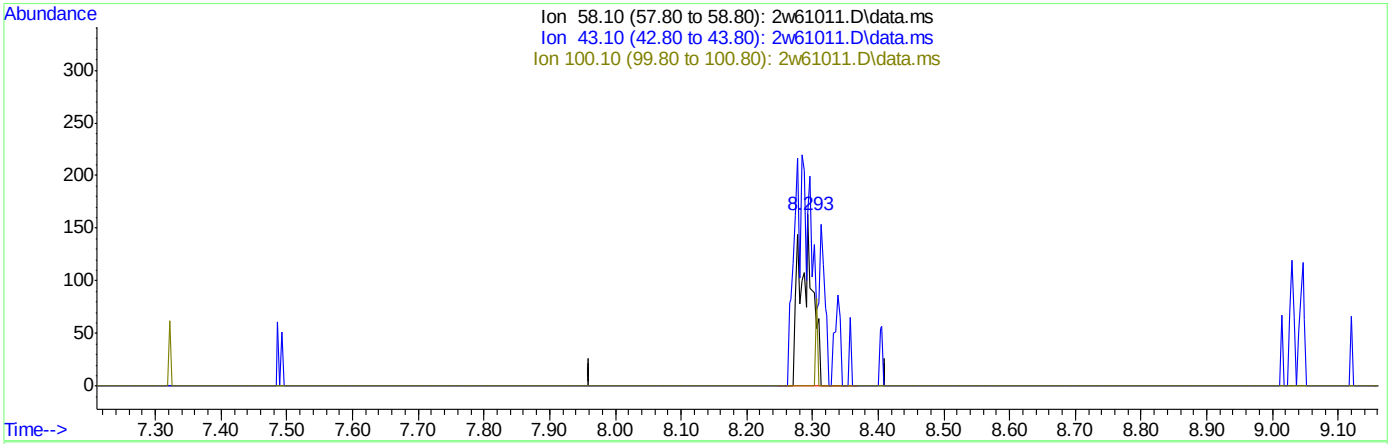
response 0

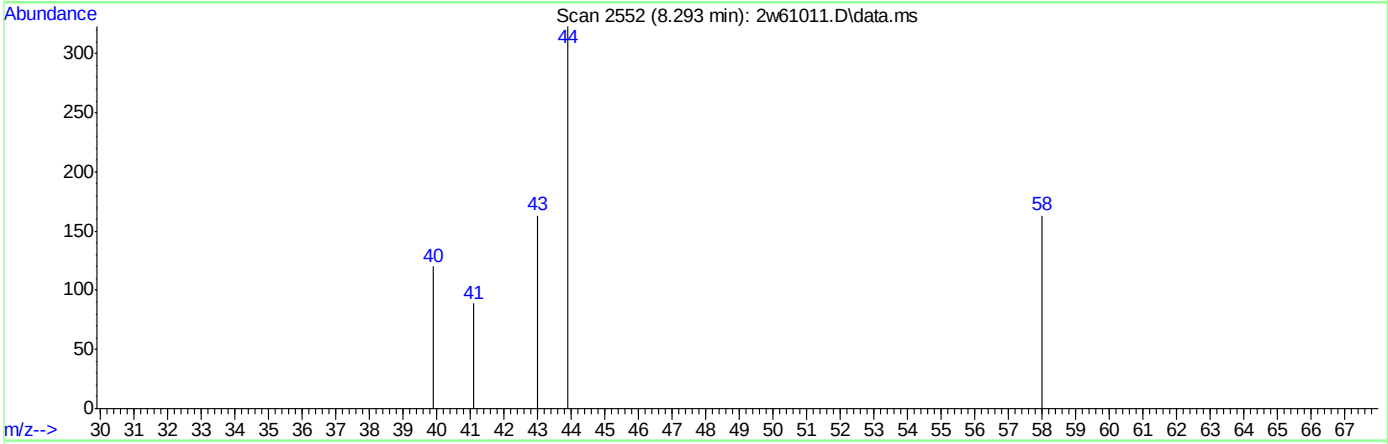
| Ion | Exp% | Act% |
|---|---|---|
| 58.10 | 100 | 0.00 |
| 43.10 | 8.30 | 0.00# |
| 100.10 | 1.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(70) 2-HEXANONE (T)

8.293min (+0.032) 0.39PPBV m

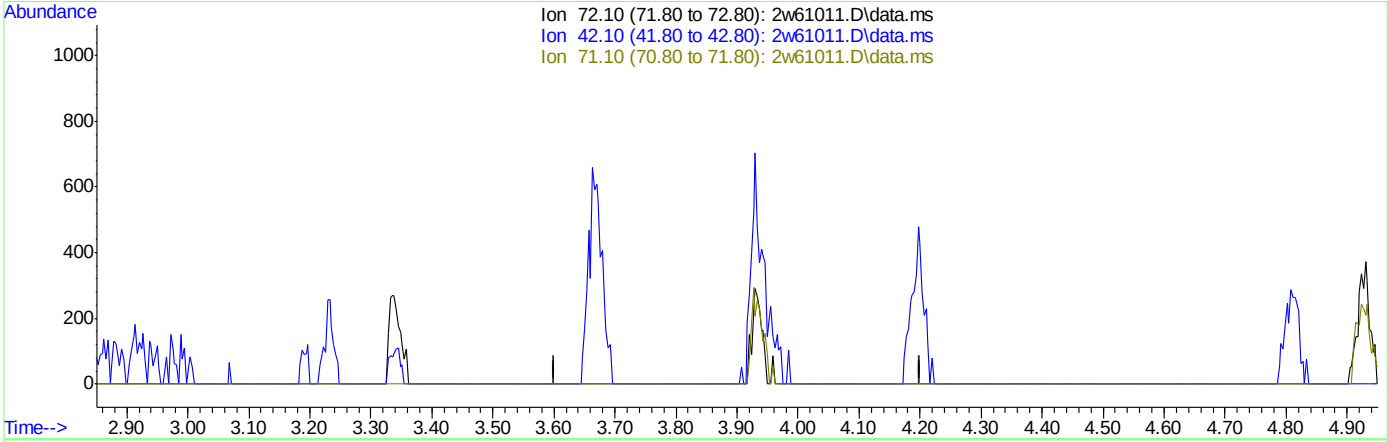
response 221

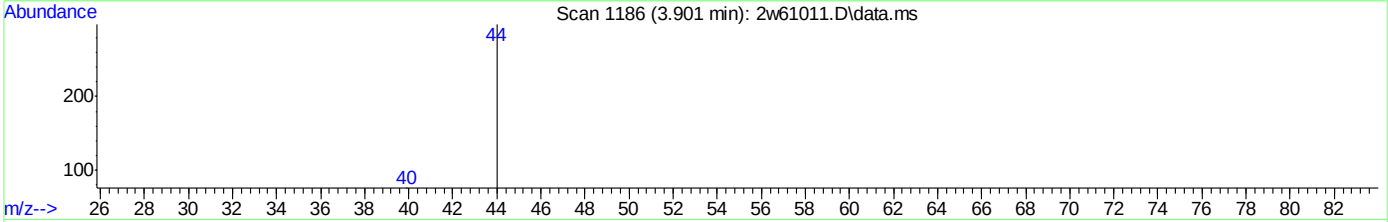
| Ion | Exp% | Act% |
|---|---|---|
| 58.10 | 100 | 100 |
| 43.10 | 8.30 | 0.00# |
| 100.10 | 1.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |

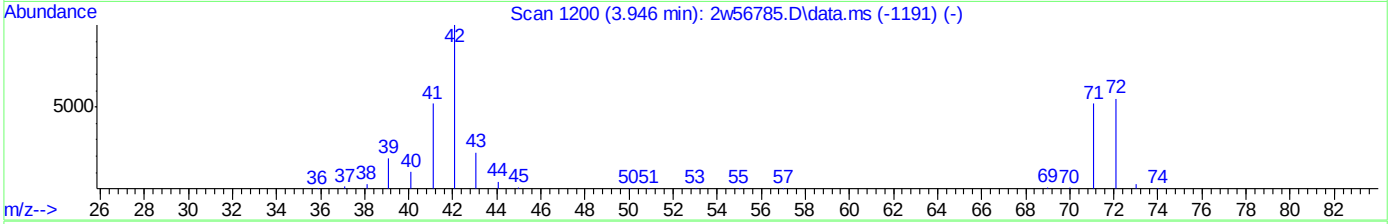
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(37) TETRAHYDROFURAN (T)

3.901min (-3.901) 0.00PPBV

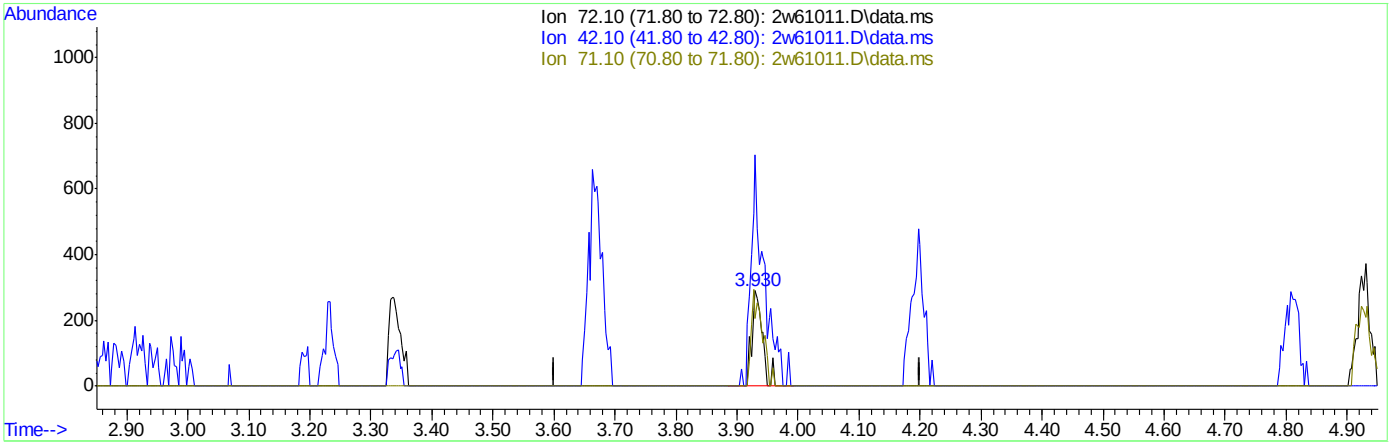
response 0

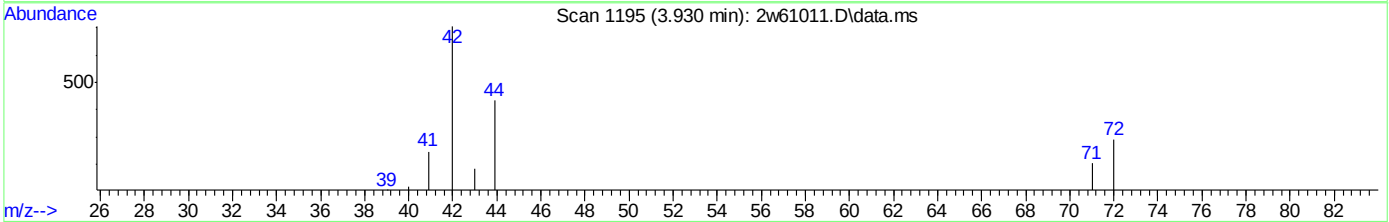
| Ion | Exp% | Act% |
|---|---|---|
| 72.10 | 100 | 0.00 |
| 42.10 | 219.70 | 0.00# |
| 71.10 | 92.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |

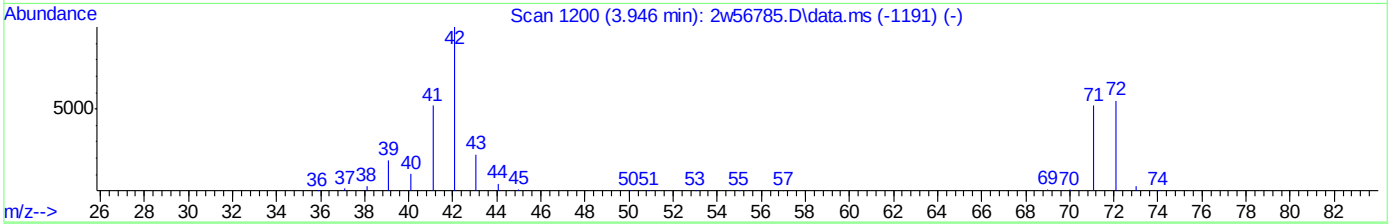
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(37) TETRAHYDROFURAN (T)

3.930min (+0.029) 0.07PPBV m

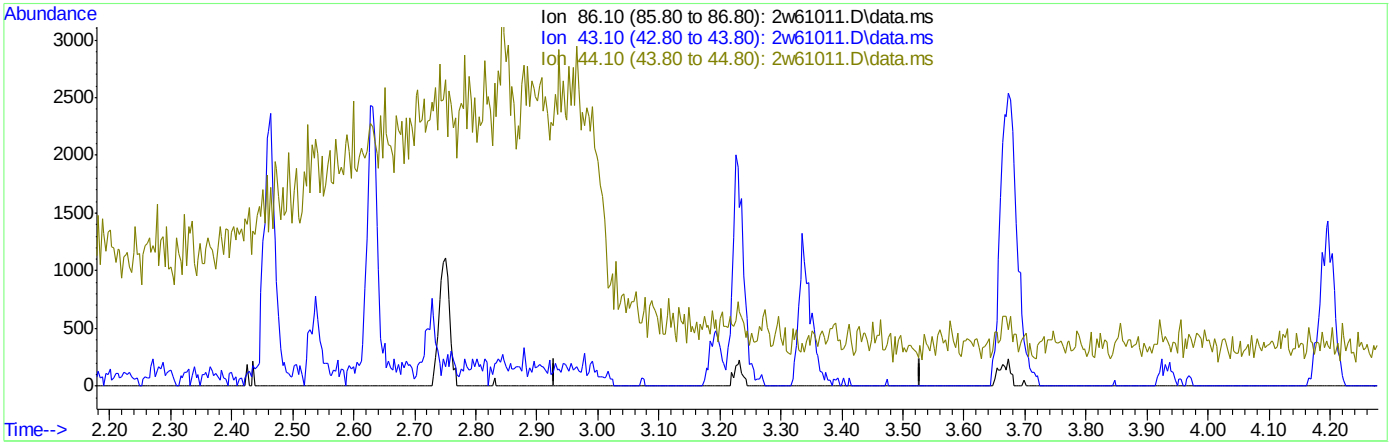
response 339

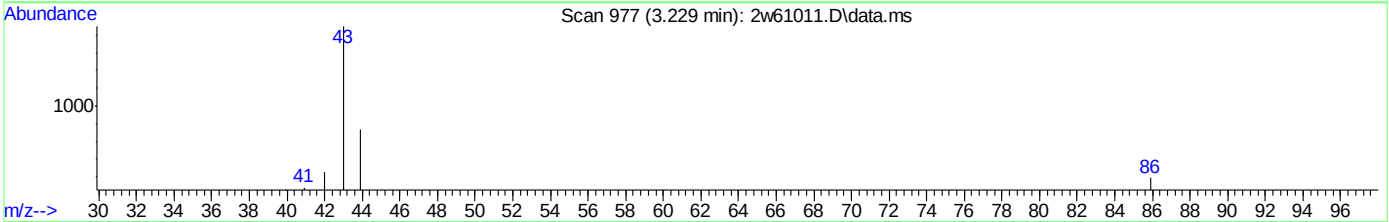
| Ion | Exp% | Act% |
|---|---|---|
| 72.10 | 100 | 100 |
| 42.10 | 219.70 | 0.00# |
| 71.10 | 92.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |

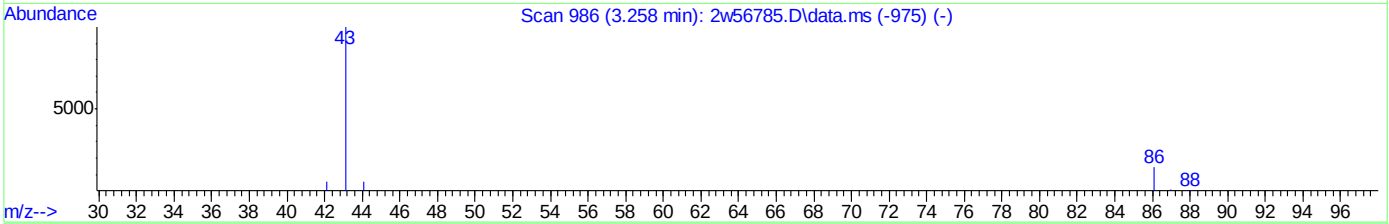
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(39) VINYL ACETATE (T)

3.229min (-3.229) 0.00PPBV

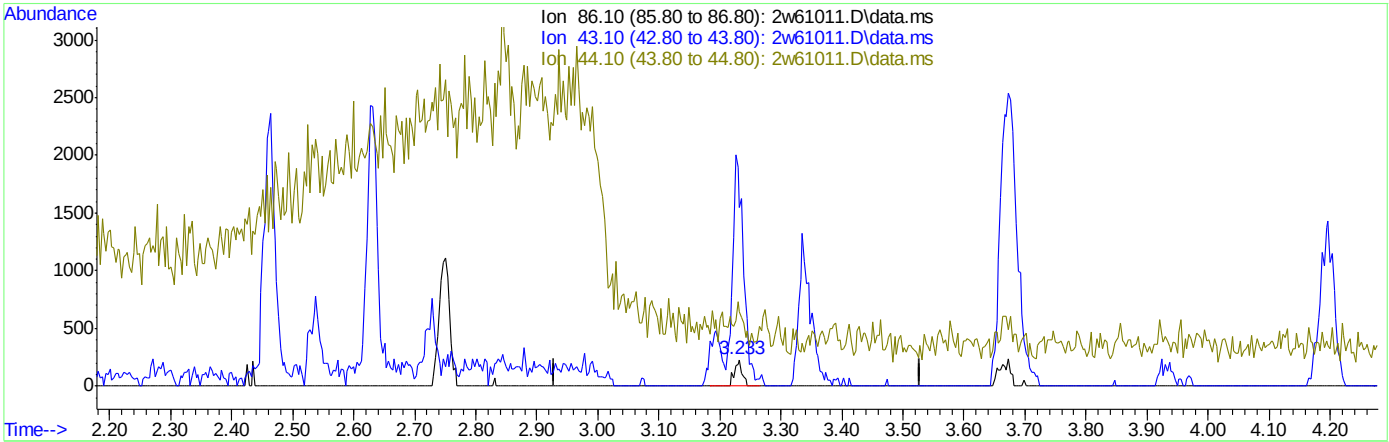
response 0

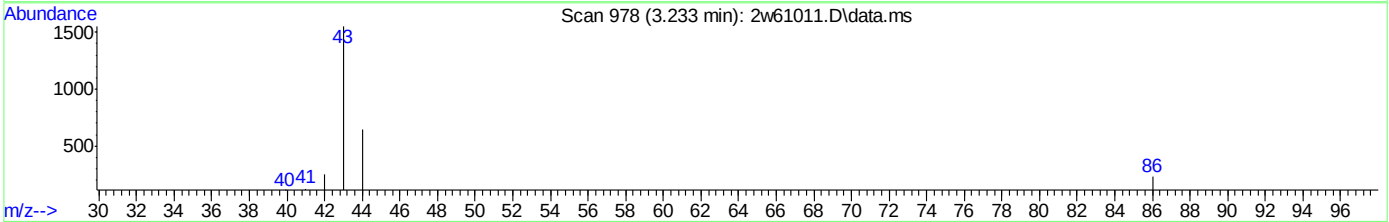
| Ion | Exp% | Act% |
|---|---|---|
| 86.10 | 100 | 0.00 |
| 43.10 | 958.60 | 0.00# |
| 44.10 | 52.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |

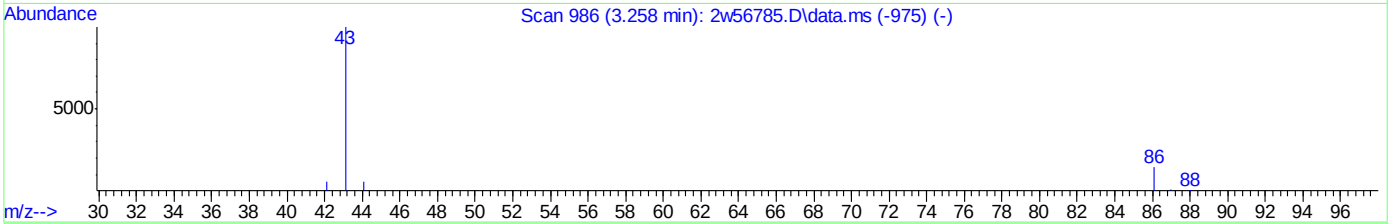
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(39) VINYL ACETATE (T)

3.233min (+0.004) 0.08PPBV m

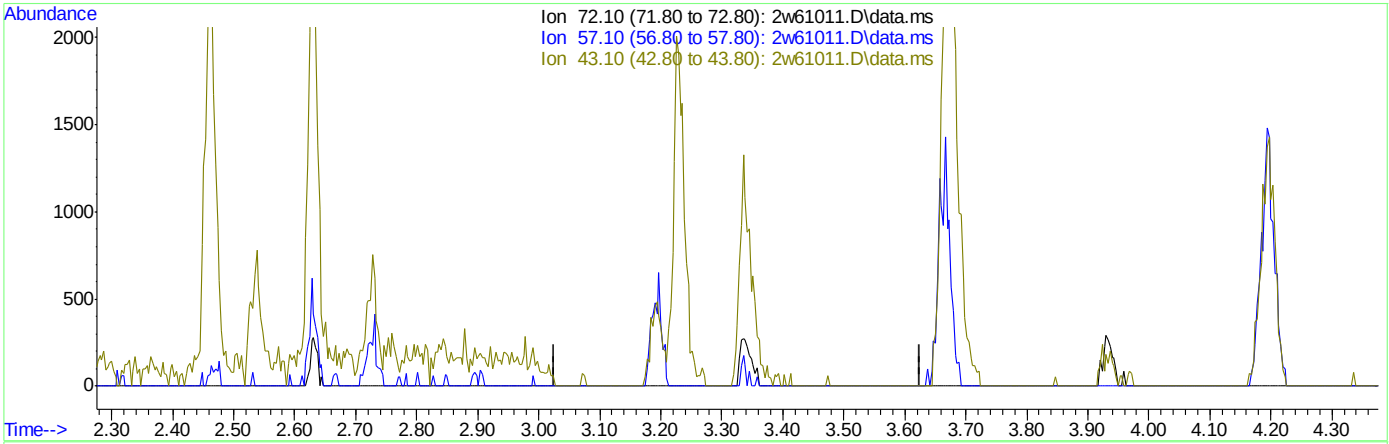
response 201

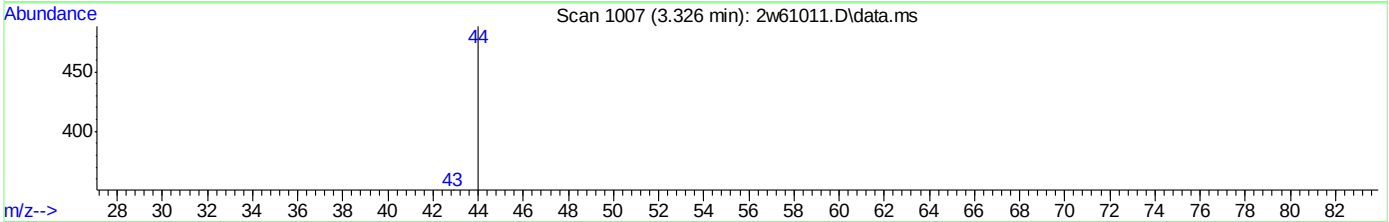
| Ion | Exp% | Act% |
|---|---|---|
| 86.10 | 100 | 100 |
| 43.10 | 958.60 | 0.00# |
| 44.10 | 52.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |

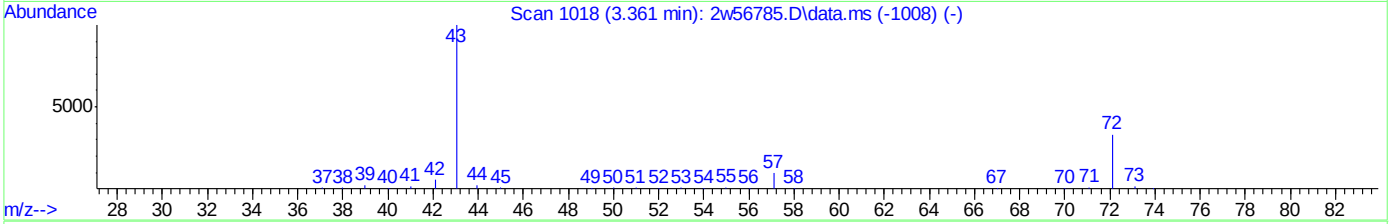
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(41) METHYL ETHYL KETONE (T)

3.326min (-3.326) 0.00PPBV

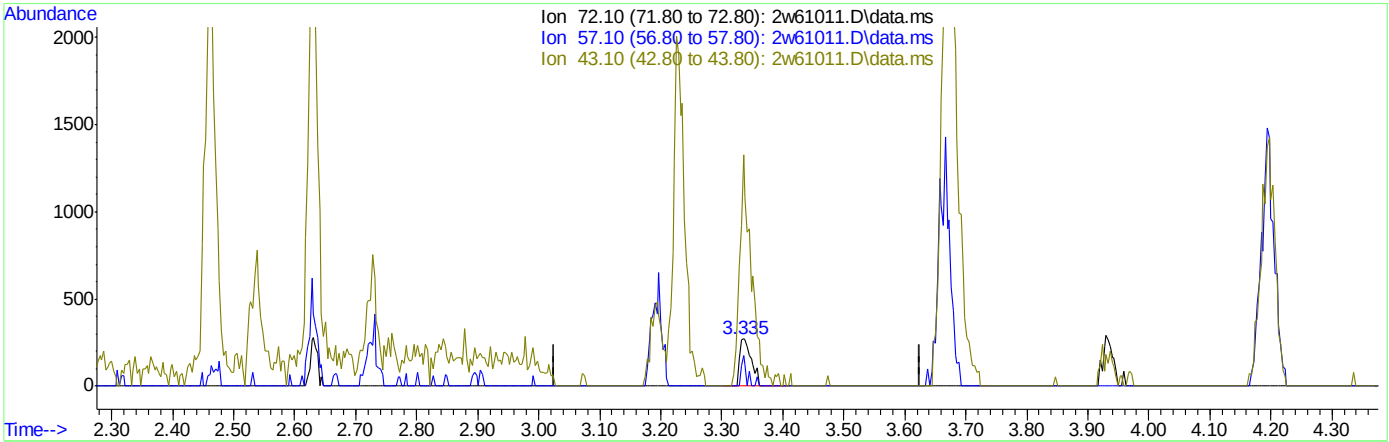
response 0

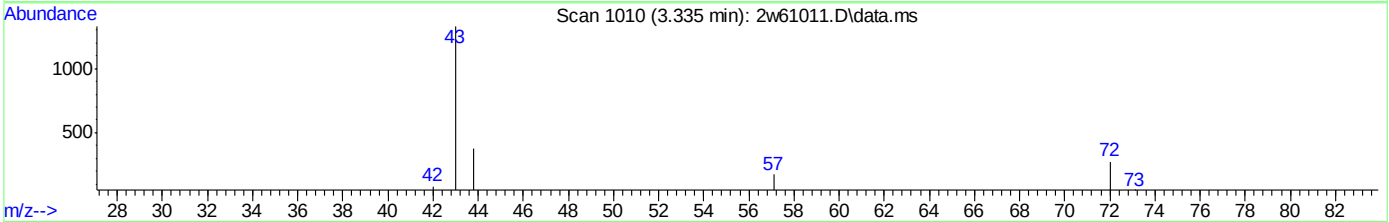
| Ion | Exp% | Act% |
|---|---|---|
| 72.10 | 100 | 0.00 |
| 57.10 | 36.40 | 0.00# |
| 43.10 | 401.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |

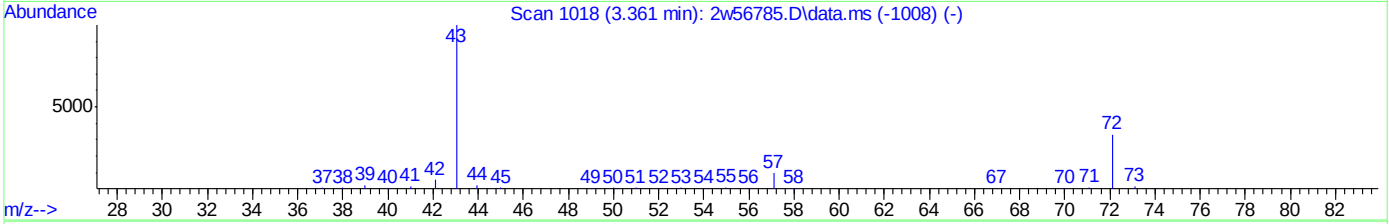
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(41) METHYL ETHYL KETONE (T)

3.335min (+0.009) 0.07PPBV m

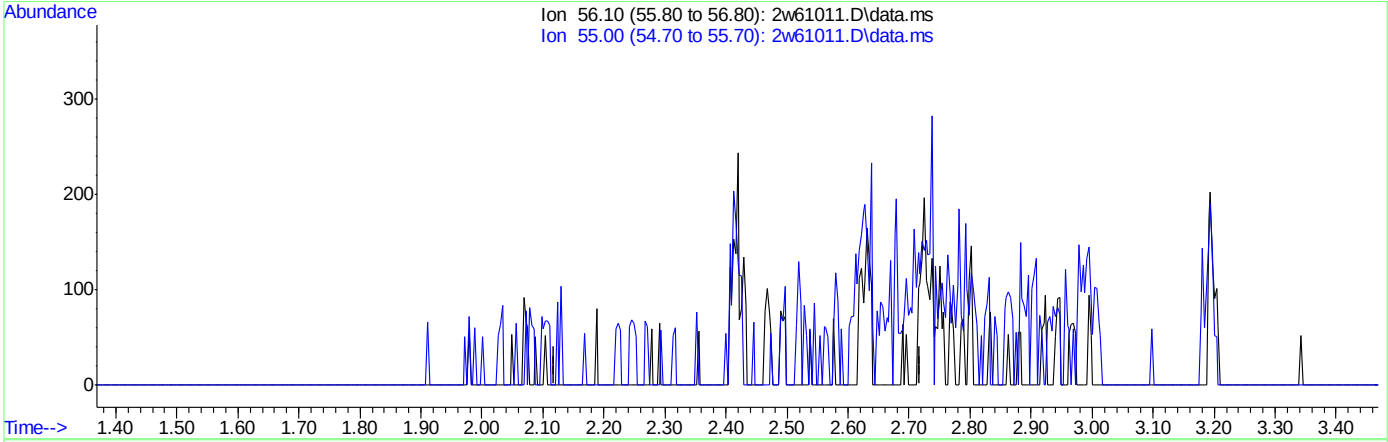
response 351

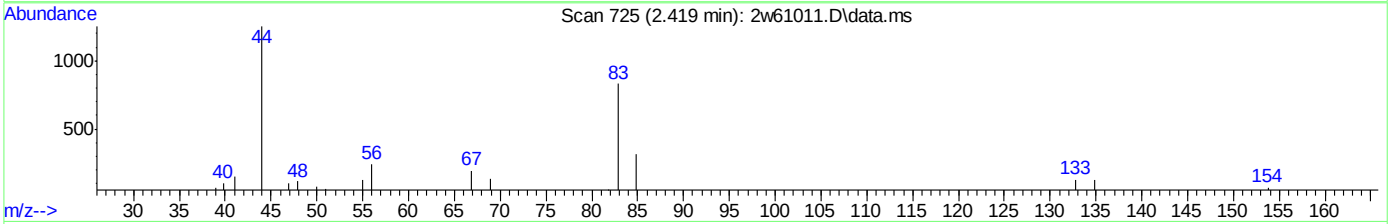
| Ion | Exp% | Act% |
|---|---|---|
| 72.10 | 100 | 100 |
| 57.10 | 36.40 | 0.00# |
| 43.10 | 401.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |

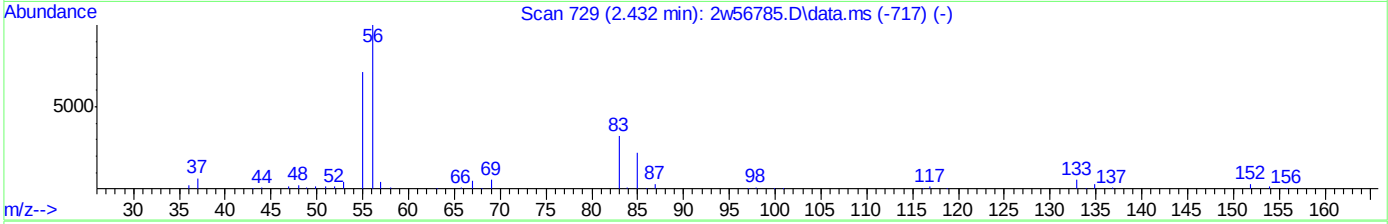
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(18) ACROLEIN (T)

2.419min (-2.419) 0.00PPBV

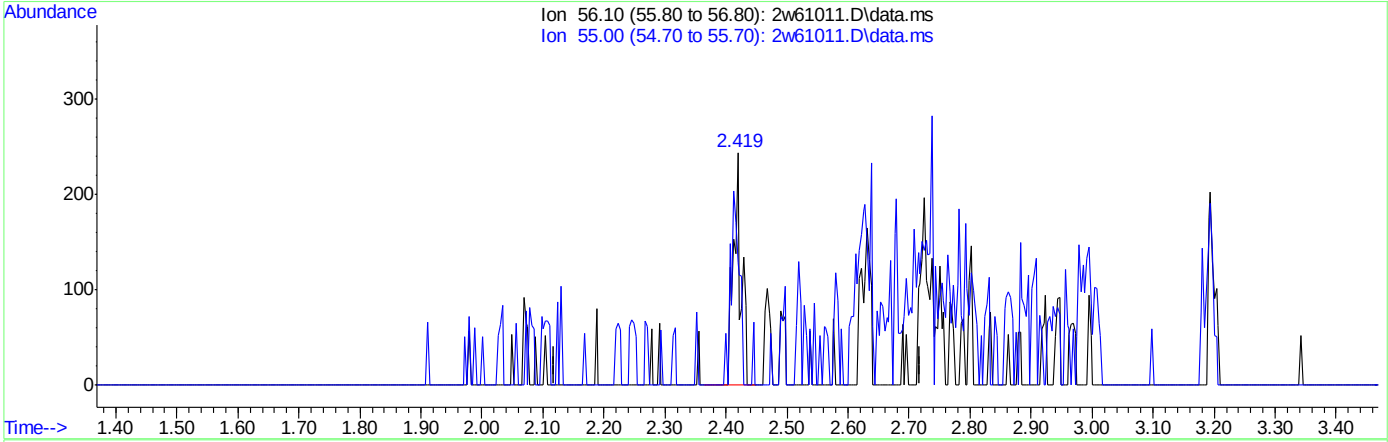
response 0

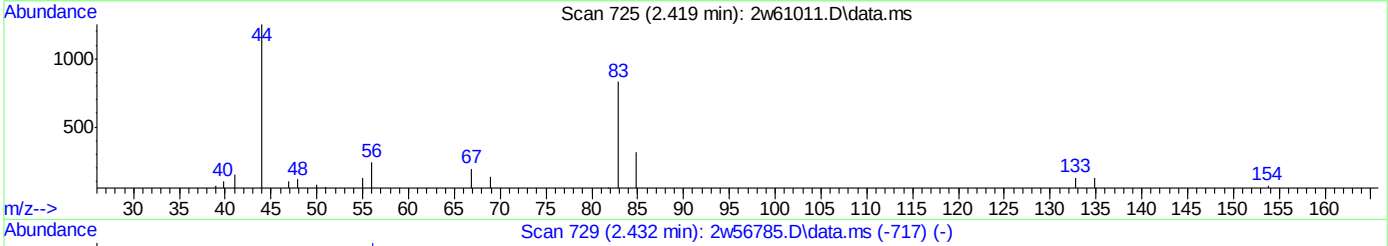
| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 0.00 |
| 55.00 | 71.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

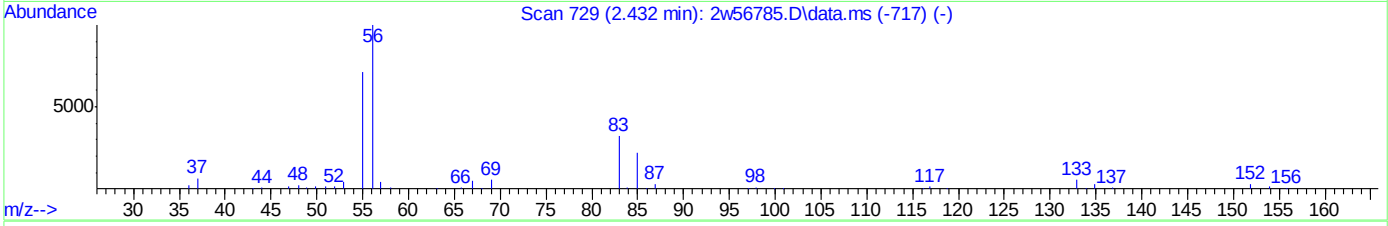
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(18) ACROLEIN (T)

2.419min (+0.000) 0.05PPBV m

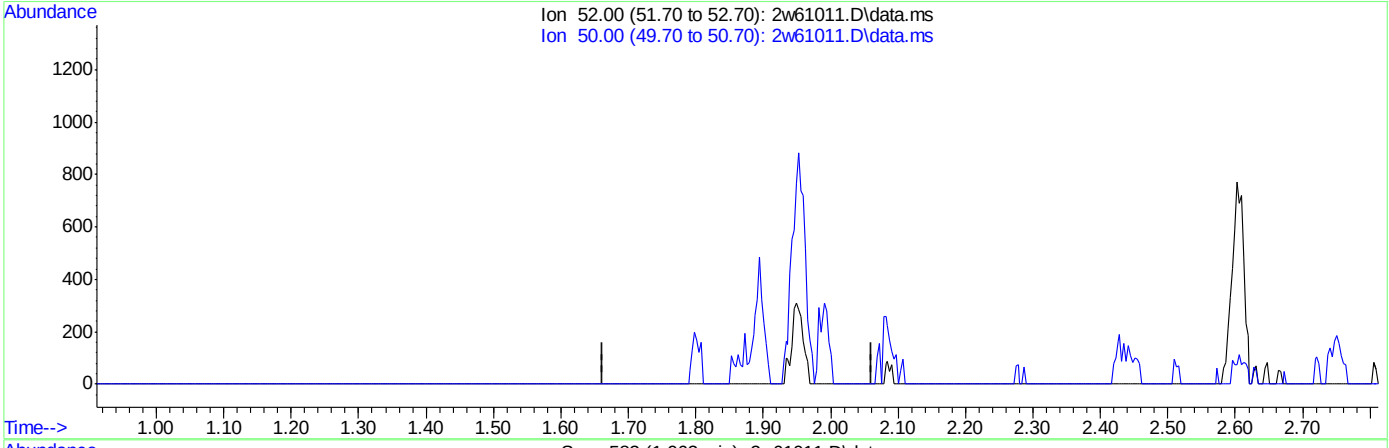
response 214

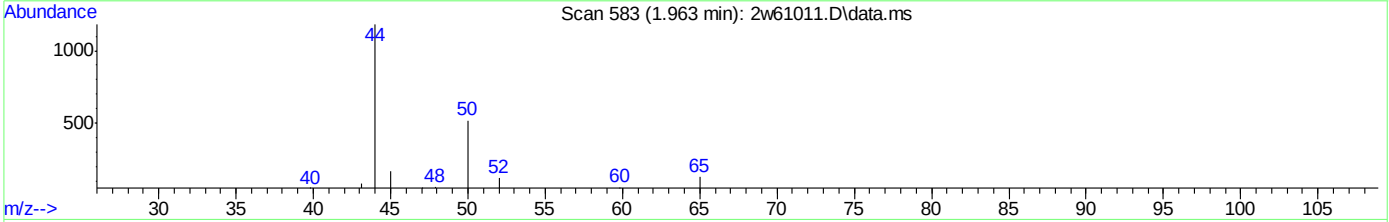
| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 100 |
| 55.00 | 71.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

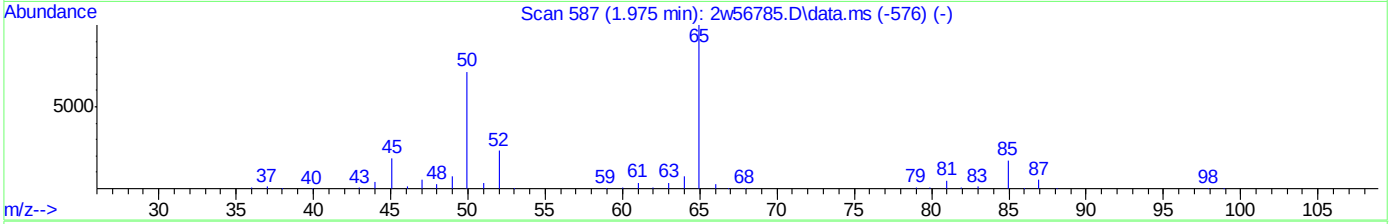
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(10) CHLOROMETHANE (T)

1.962min (-1.962) 0.00PPBV

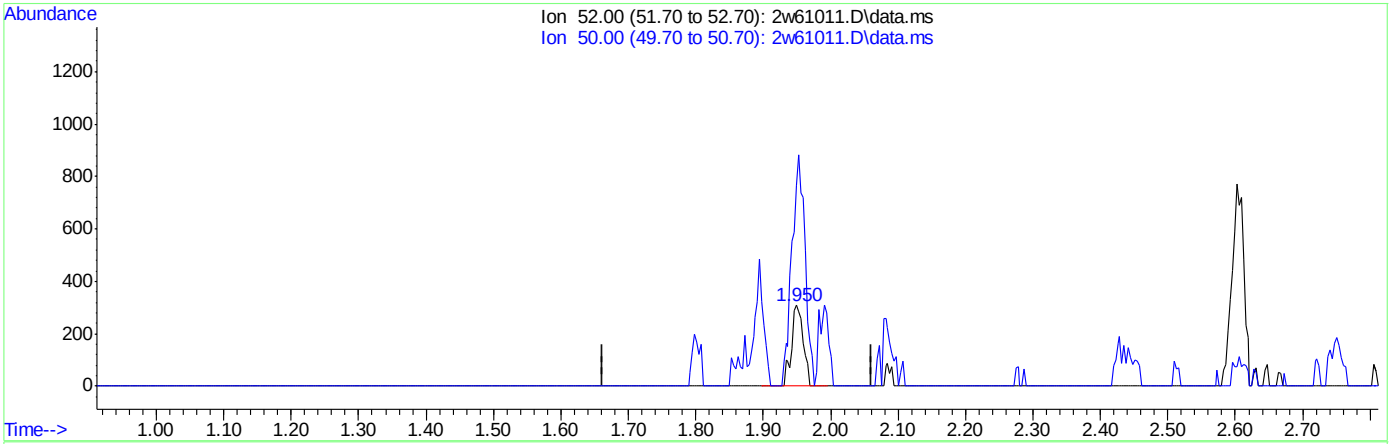
response 0

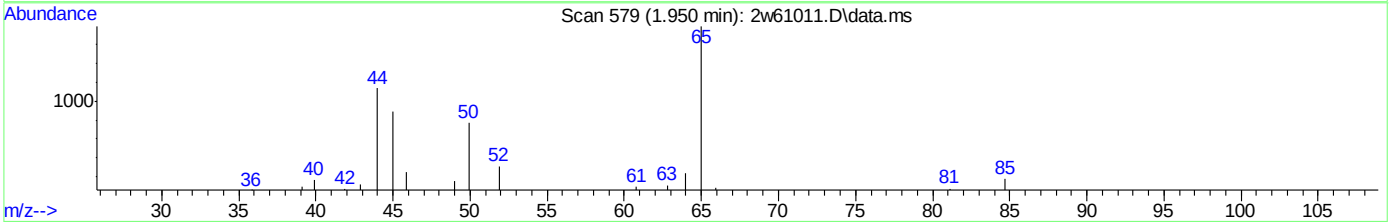
| Ion | Exp% | Act% |
|---|---|---|
| 52.00 | 100 | 0.00 |
| 50.00 | 309.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

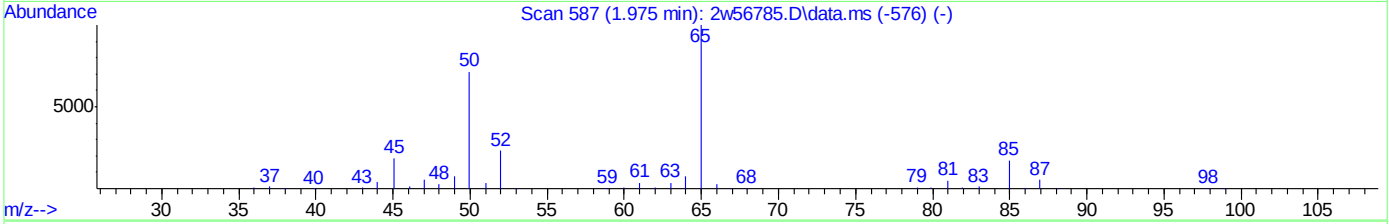
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(10) CHLOROMETHANE (T)

1.950min (-0.012) 0.11PPBV m

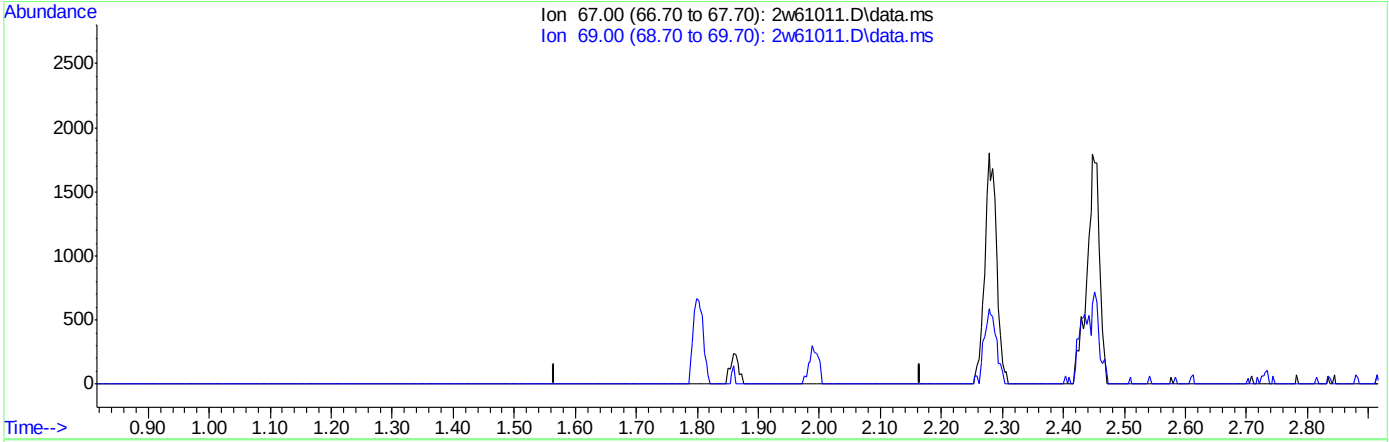
response 371

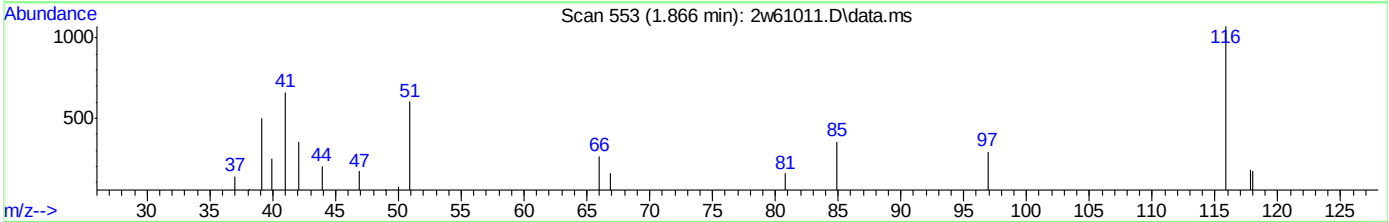
| Ion | Exp% | Act% |
|---|---|---|
| 52.00 | 100 | 100 |
| 50.00 | 309.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

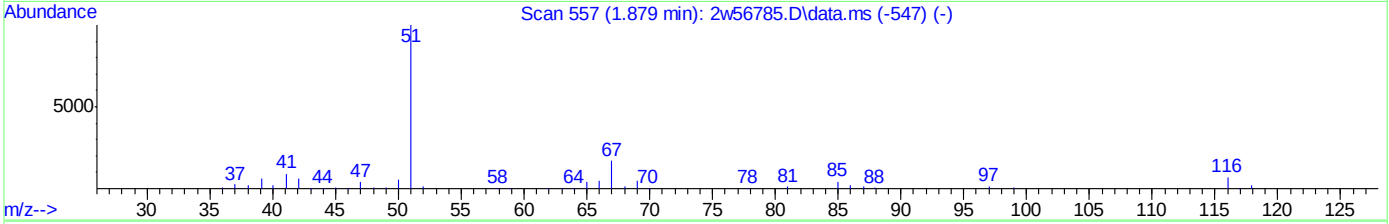
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.866min (-1.866) 0.00PPBV

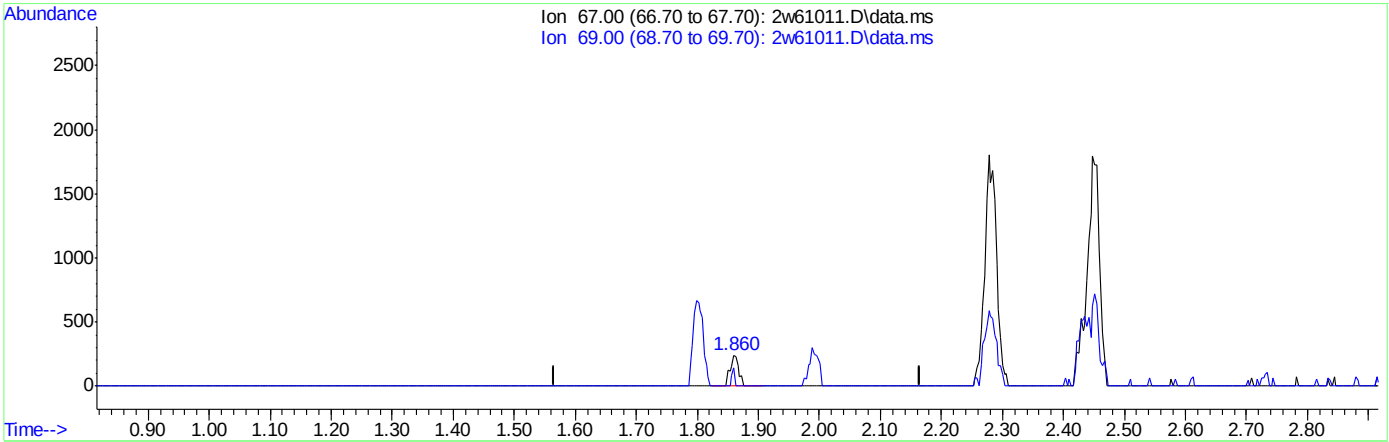
response 0

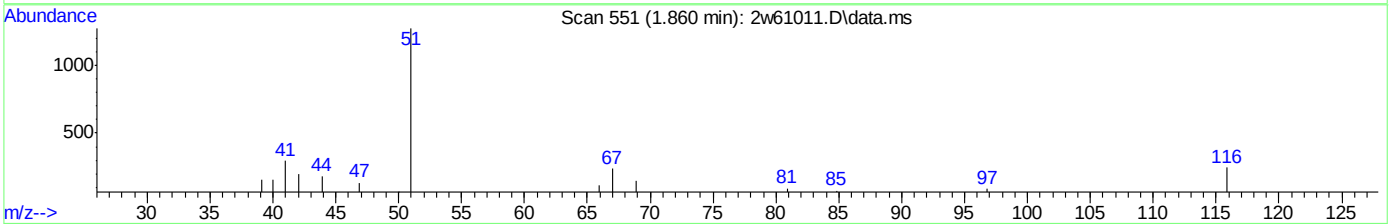
| Ion | Exp% | Act% |
|---|---|---|
| 67.00 | 100 | 0.00 |
| 69.00 | 34.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

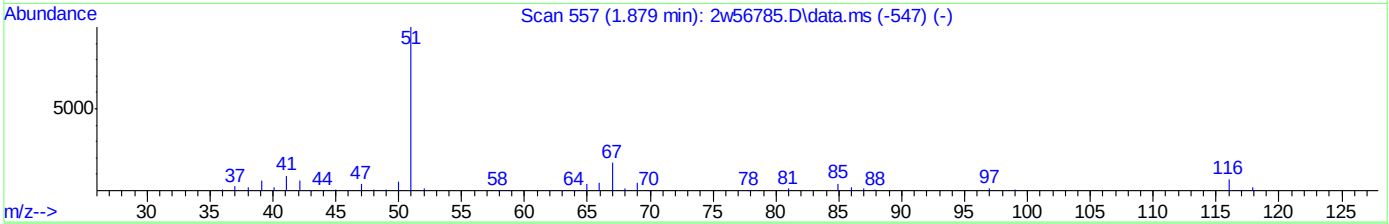
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.860min (-0.006) 0.09PPBV m

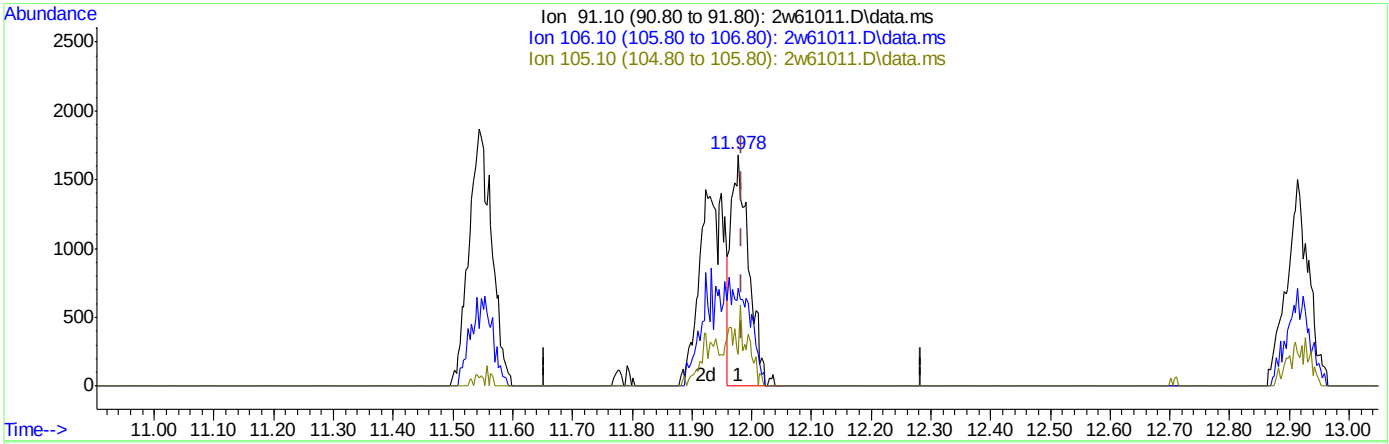
response 226

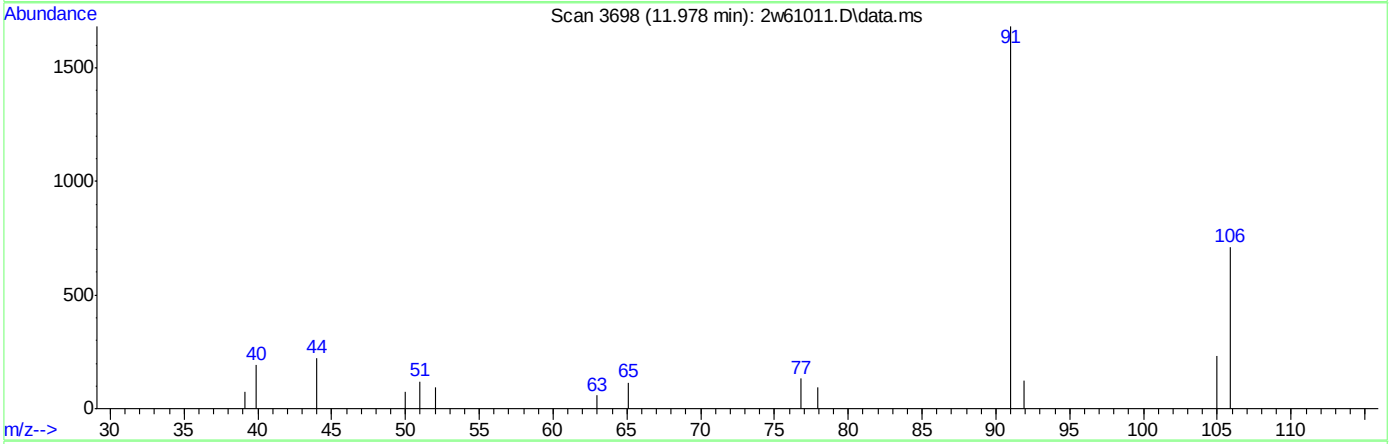
| Ion | Exp% | Act% |
|---|---|---|
| 67.00 | 100 | 100 |
| 69.00 | 34.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:49:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(80) M,P-XYLENE (t)

11.978min (-0.006) 0.10PPBV

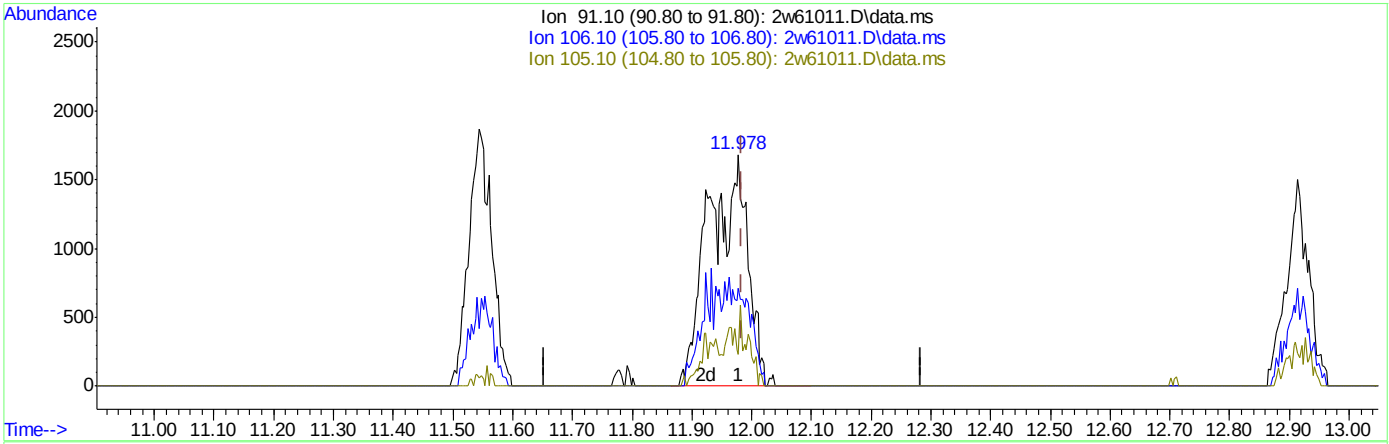
response 3518

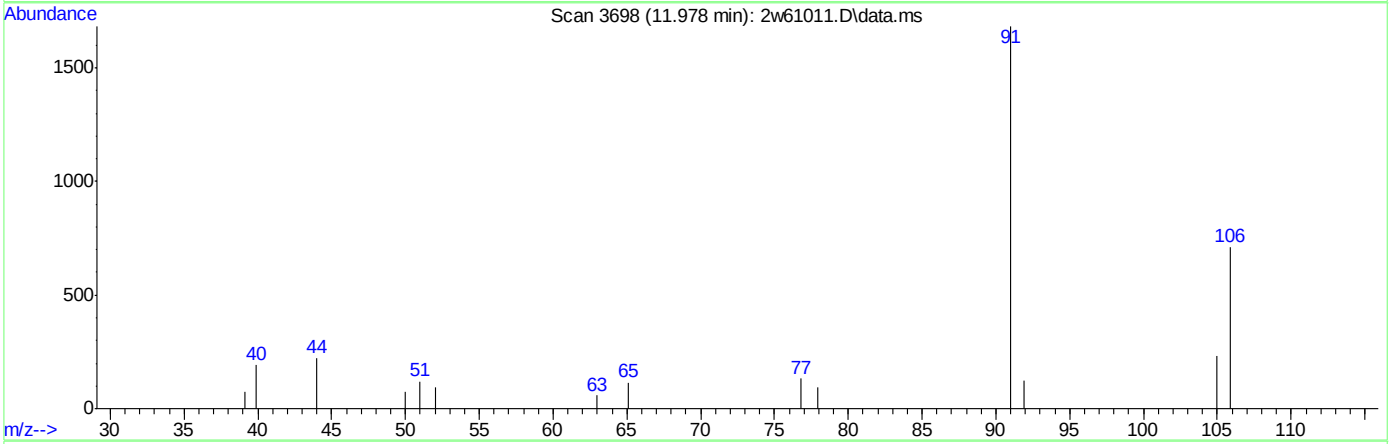
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 23.00 | 44.03# |
| 105.10 | 10.90 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:49:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(80) M,P-XYLENE (t)

11.978min (-0.006) 0.21PPBV m

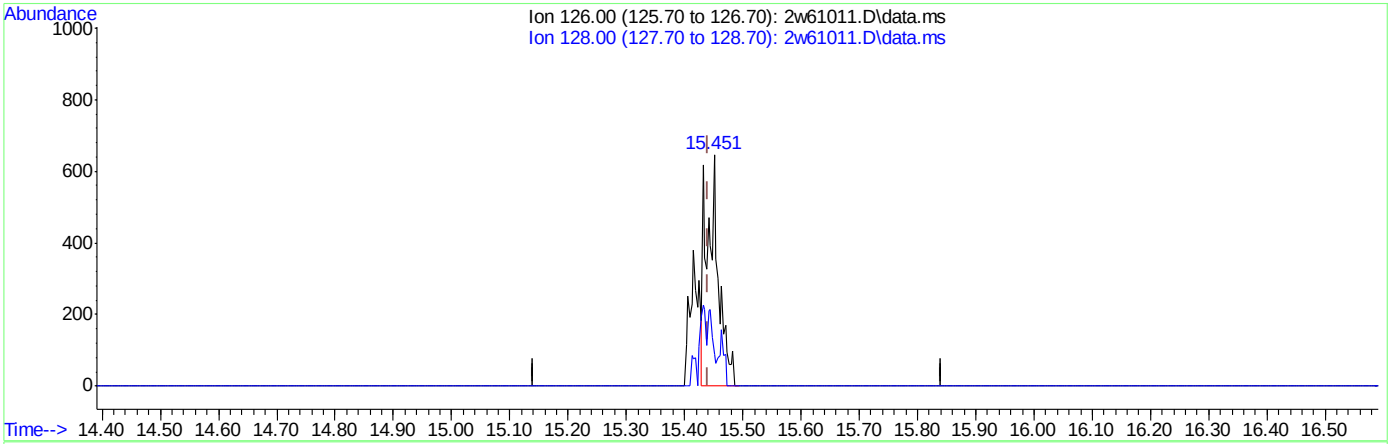
response 7627

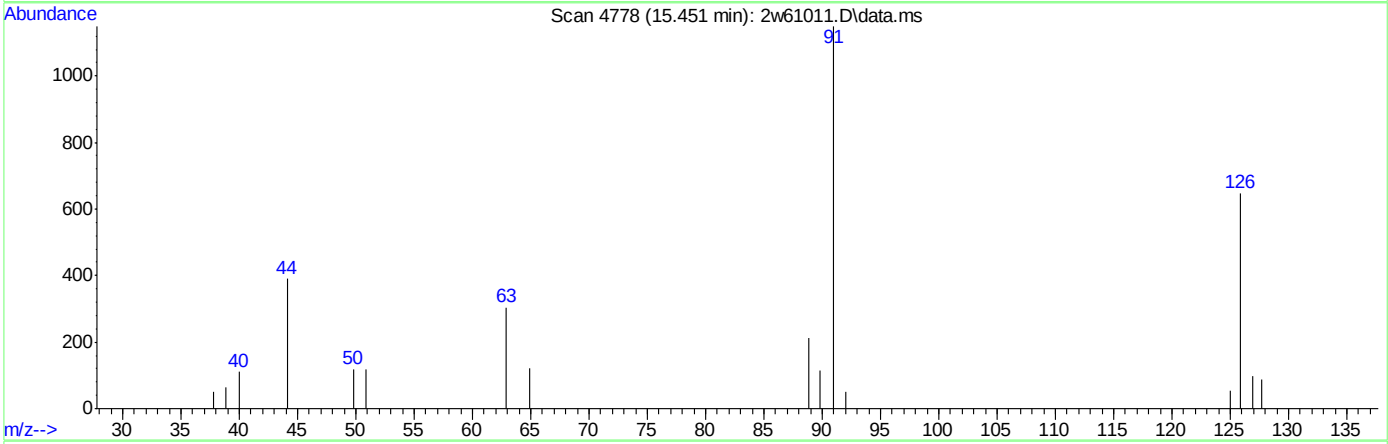
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 23.00 | 20.31 |
| 105.10 | 10.90 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:49:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(90) 2-CHLOROTOLUENE (T)

15.451min (+0.010) 0.06PPBV

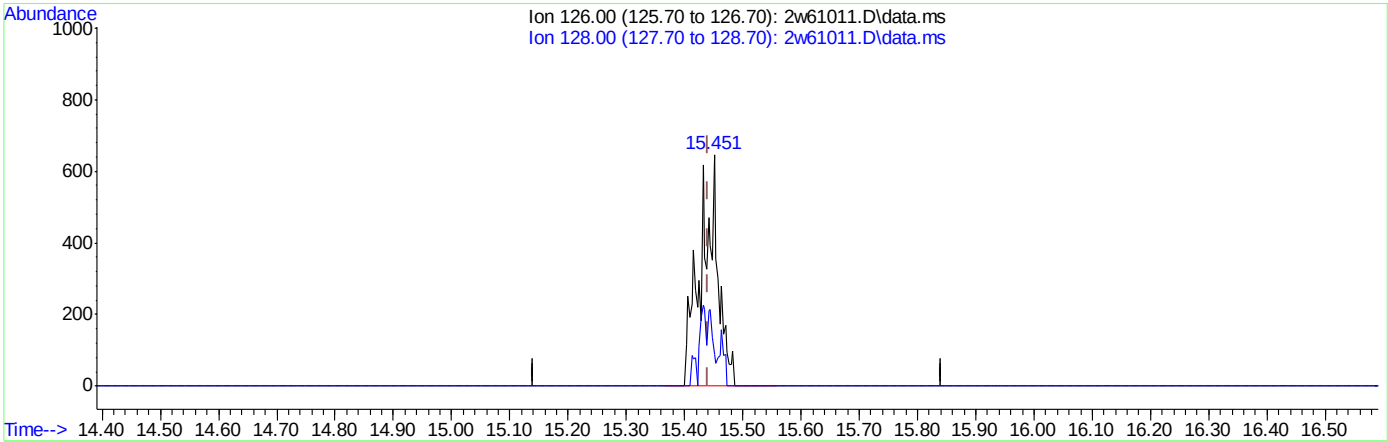
response 945

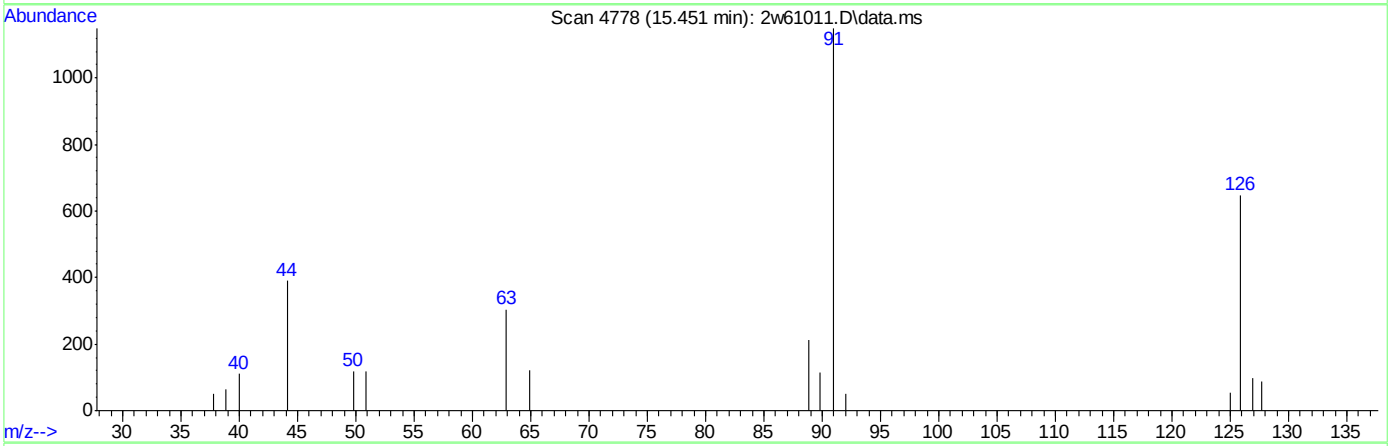
| Ion | Exp% | Act% |
|---|---|---|
| 126.00 | 100 | 100 |
| 128.00 | 32.40 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:49:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(90) 2-CHLOROTOLUENE (T)

15.451min (+0.010) 0.09PPBV m

response 1358

| Ion | Exp% | Act% |
|---|---|---|
| 126.00 | 100 | 100 |
| 128.00 | 32.40 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/24/22 14:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:41:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.611 | 128 | 64509 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 353558 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 315511 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 204068 | 9.70 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.843 | 65 | 1064 | 0.19 | PPBV | # | 48 |
| 4) CHLORODIFLUOROMETHANE | 1.862 | 67 | 468m | 0.19 | PPBV | | |
| 5) CHLOROTRIFLUOROETHENE | 1.878 | 116 | 2747 | 0.19 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.898 | 85 | 6218 | 0.20 | PPBV | # | 63 |
| 7) PROPYLENE | 1.875 | 41 | 1247 | 0.21 | PPBV | | 97 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.949 | 65 | 4676 | 0.19 | PPBV | # | 61 |
| 9) FREON 114 | 1.994 | 85 | 5721 | 0.20 | PPBV | | 98 |
| 10) CHLOROMETHANE | 1.952 | 52 | 709 | 0.22 | PPBV | | 94 |
| 11) VINYL CHLORIDE | 2.039 | 62 | 2175 | 0.19 | PPBV | # | 92 |
| 12) 1,3-BUTADIENE | 2.084 | 54 | 1768 | 0.20 | PPBV | | 91 |
| 13) N-BUTANE | 2.107 | 43 | 3294 | 0.23 | PPBV | # | 97 |
| 14) BROMOMETHANE | 2.193 | 94 | 2081 | 0.21 | PPBV | # | 95 |
| 15) CHLOROETHANE | 2.255 | 64 | 1105 | 0.18 | PPBV | # | 58 |
| 16) DICHLOROFLUOROMETHANE | 2.284 | 67 | 4766 | 0.20 | PPBV | | 98 |
| 17) ACETONITRILE | 2.374 | 41 | 1928 | 0.22 | PPBV | # | 80 |
| 18) ACROLEIN | 2.412 | 56 | 435m | 0.12 | PPBV | | |
| 19) FREON 123 | 2.435 | 83 | 5136 | 0.19 | PPBV | | 98 |
| 20) FREON 123A | 2.451 | 117 | 2873 | 0.19 | PPBV | | 91 |
| 21) TRICHLOROFLUOROMETHANE | 2.521 | 101 | 6324 | 0.19 | PPBV | # | 1 |
| 22) ISOPROPYL ALCOHOL | 2.534 | 45 | 5508 | 0.21 | PPBV | # | 97 |
| 23) ACETONE | 2.467 | 58 | 2320 | 0.27 | PPBV | | 77 |
| 24) PENTANE | 2.631 | 42 | 3176 | 0.22 | PPBV | | 93 |
| 25) IODOMETHANE | 2.685 | 142 | 6326 | 0.20 | PPBV | | 97 |
| 26) 1,1-DICHLOROETHYLENE | 2.711 | 96 | 2524 | 0.20 | PPBV | | 99 |
| 27) CARBON DISULFIDE | 2.846 | 76 | 7009 | 0.19 | PPBV | # | 81 |
| 28) ETHANOL | 2.287 | 45 | 1342 | 0.26 | PPBV | # | 41 |
| 29) BROMOETHENE | 2.380 | 106 | 2030 | 0.19 | PPBV | # | 100 |
| 30) ACRYLONITRILE | 2.599 | 52 | 2087 | 0.20 | PPBV | | 99 |
| 31) METHYLENE CHLORIDE | 2.747 | 84 | 3521 | 0.27 | PPBV | | 95 |
| 32) 3-CHLOROPROPENE | 2.785 | 76 | 1417 | 0.21 | PPBV | # | 79 |
| 33) FREON 113 | 2.843 | 151 | 4105 | 0.19 | PPBV | | 95 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 2132 | 0.20 | PPBV | | 98 |
| 35) TERTIARY BUTYL ALCOHOL | 2.721 | 59 | 6767 | 0.21 | PPBV | | 95 |
| 36) METHYL TERTIARY BUTYL ... | 3.190 | 73 | 5366 | 0.20 | PPBV | # | 84 |
| 37) TETRAHYDROFURAN | 3.933 | 72 | 916 | 0.19 | PPBV | | 93 |
| 38) HEXANE | 3.663 | 57 | 3493 | 0.19 | PPBV | | 96 |
| 39) VINYL ACETATE | 3.235 | 86 | 426m | 0.16 | PPBV | | |
| 40) 1,1-DICHLOROETHANE | 3.155 | 63 | 3963 | 0.21 | PPBV | # | 88 |
| 41) METHYL ETHYL KETONE | 3.338 | 72 | 914 | 0.19 | PPBV | # | 92 |
| 42) CIS-1,2-DICHLOROETHENE | 3.531 | 96 | 2323 | 0.20 | PPBV | | 94 |
| 43) DIISOPROPYL ETHER | 3.666 | 59 | 1027 | 0.20 | PPBV | | 91 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:41:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.673 | 61 | 647 | 0.18 | PPBV | # | 68 |
| 45) METHYL ACRYLATE | 3.666 | 55 | 3643 | 0.17 | PPBV | # | 91 |
| 46) CHLOROFORM | 3.682 | 83 | 4521 | 0.20 | PPBV | | 94 |
| 47) 2,4-DIMETHYLPENTANE | 4.197 | 57 | 4425 | 0.20 | PPBV | | 98 |
| 48) 1,1,1-TRICHLOROETHANE | 4.280 | 97 | 4515 | 0.20 | PPBV | | 100 |
| 49) CARBON TETRACHLORIDE | 4.711 | 117 | 4093 | 0.18 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 4.107 | 62 | 3092 | 0.19 | PPBV | # | 100 |
| 51) BENZENE | 4.599 | 78 | 6872 | 0.21 | PPBV | | 97 |
| 53) CYCLOHEXANE | 4.808 | 84 | 2995 | 0.20 | PPBV | | 97 |
| 54) 2,3-DIMETHYLPENTANE | 5.068 | 71 | 1389 | 0.19 | PPBV | # | 97 |
| 55) TRICHLOROETHENE | 5.521 | 95 | 2855 | 0.18 | PPBV | | 95 |
| 56) 1,2-DICHLOROPROPANE | 5.283 | 63 | 2647 | 0.20 | PPBV | | 98 |
| 57) DIBROMOMETHANE | 5.238 | 174 | 3143 | 0.20 | PPBV | | 98 |
| 58) ETHYL ACRYLATE | 5.399 | 55 | 4024 | 0.17 | PPBV | # | 74 |
| 59) BROMODICHLOROMETHANE | 5.460 | 83 | 4359 | 0.18 | PPBV | | 98 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.611 | 57 | 11990 | 0.20 | PPBV | | 99 |
| 61) 1,4-DIOXANE | 5.582 | 88 | 1216 | 0.17 | PPBV | # | 74 |
| 62) HEPTANE | 5.926 | 43 | 3821 | 0.21 | PPBV | | 96 |
| 63) METHYL METHACRYLATE | 5.833 | 69 | 1829 | 0.17 | PPBV | | 92 |
| 64) METHYL ISOBUTYL KETONE | 6.579 | 58 | 1468 | 0.16 | PPBV | # | 91 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.470 | 75 | 3039 | 0.17 | PPBV | | 92 |
| 66) TOLUENE | 7.698 | 91 | 7872 | 0.19 | PPBV | | 98 |
| 67) 1,3-DICHLOROPROPANE | 7.750 | 76 | 3769 | 0.19 | PPBV | # | 91 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.164 | 75 | 2315 | 0.15 | PPBV | | 92 |
| 69) 1,1,2-TRICHLOROETHANE | 7.325 | 83 | 2304 | 0.18 | PPBV | | 96 |
| 70) 2-HEXANONE | 8.290 | 58 | 532 | 0.06 | PPBV | # | 1 |
| 71) ETHYL METHACRYLATE | 8.399 | 69 | 2146 | 0.14 | PPBV | # | 77 |
| 72) TETRACHLOROETHENE | 9.447 | 164 | 3504 | 0.20 | PPBV | | 98 |
| 73) DIBROMOCHLOROMETHANE | 8.229 | 129 | 3734 | 0.16 | PPBV | | 98 |
| 74) 1,2-DIBROMOETHANE | 8.582 | 107 | 4009 | 0.18 | PPBV | # | 97 |
| 75) OCTANE | 9.595 | 43 | 4808 | 0.19 | PPBV | | 98 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.669 | 131 | 2959 | 0.18 | PPBV | | 99 |
| 78) CHLOROBENZENE | 10.656 | 112 | 6633 | 0.20 | PPBV | | 95 |
| 79) ETHYLBENZENE | 11.550 | 91 | 9979 | 0.18 | PPBV | | 98 |
| 80) M,P-XYLENE | 11.984 | 91 | 14963m | 0.36 | PPBV | | |
| 81) O-XYLENE | 12.913 | 91 | 7941 | 0.19 | PPBV | | 93 |
| 82) STYRENE | 12.704 | 104 | 4915 | 0.16 | PPBV | | 99 |
| 83) NONANE | 14.029 | 43 | 4867 | 0.19 | PPBV | | 94 |
| 84) BROMOFORM | 11.788 | 173 | 2475 | 0.13 | PPBV | # | 88 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.923 | 83 | 5839 | 0.19 | PPBV | # | 95 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.216 | 75 | 4250 | 0.18 | PPBV | # | 99 |
| 88) ISOPROPYLBENZENE | 14.434 | 120 | 3299 | 0.19 | PPBV | | 99 |
| 89) BROMOBENZENE | 14.296 | 77 | 5420 | 0.18 | PPBV | # | 39 |
| 90) 2-CHLOROTOLUENE | 15.431 | 126 | 2677 | 0.18 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.772 | 120 | 2818 | 0.17 | PPBV | # | 62 |
| 92) 4-ETHYLTOLUENE | 16.142 | 105 | 9947 | 0.17 | PPBV | # | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.296 | 105 | 8565 | 0.17 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.498 | 118 | 3096 | 0.15 | PPBV | | 98 |
| 95) TERT-BUTYLBENZENE | 16.756 | 134 | 2261 | 0.18 | PPBV | | 95 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.765 | 105 | 8595 | 0.17 | PPBV | | 94 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:41:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration

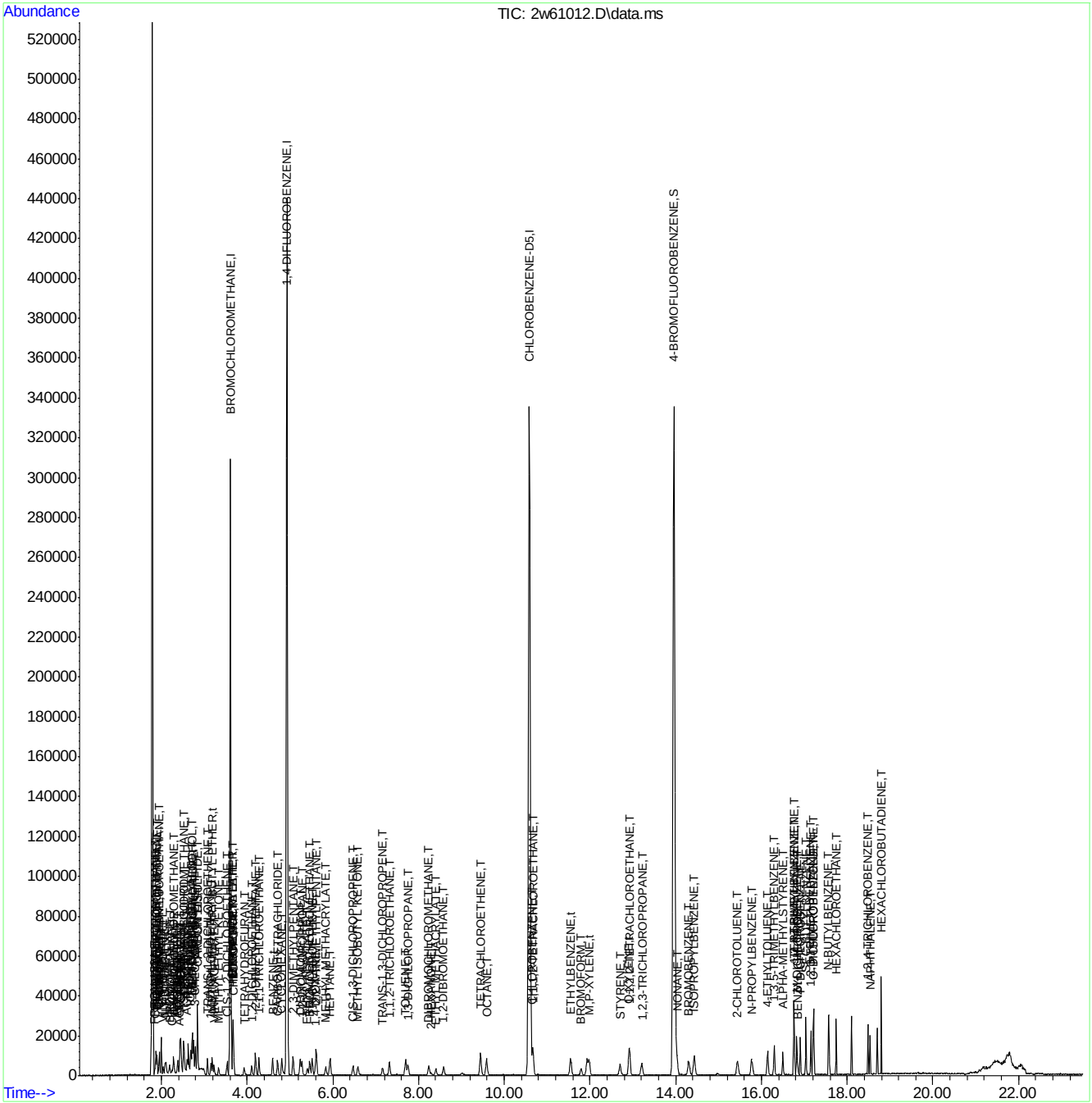
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.852 | 91 | 3085 | 0.12 | PPBV | # | 89 |
| 98) | M-DICHLOROBENZENE | 16.826 | 146 | 5983 | 0.17 | PPBV | | 98 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 5846 | 0.17 | PPBV | | 94 |
| 100) | O-DICHLOROBENZENE | 17.206 | 146 | 6092 | 0.19 | PPBV | | 99 |
| 101) | SEC-BUTYLBENZENE | 17.039 | 134 | 3031 | 0.20 | PPBV | | 84 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 8528 | 0.17 | PPBV | | 98 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 2975 | 0.18 | PPBV | | 99 |
| 104) | N-BUTYLBENZENE | 17.566 | 134 | 2492 | 0.16 | PPBV | | 97 |
| 105) | HEXACHLOROETHANE | 17.746 | 117 | 2279 | 0.14 | PPBV | | 98 |
| 106) | HEXACHLOROBUTADIENE | 18.797 | 225 | 4203 | 0.17 | PPBV | # | 1 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.485 | 180 | 4180 | 0.16 | PPBV | | 94 |
| 108) | NAPHTHALENE | 18.534 | 128 | 9026 | 0.14 | PPBV | | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:41:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



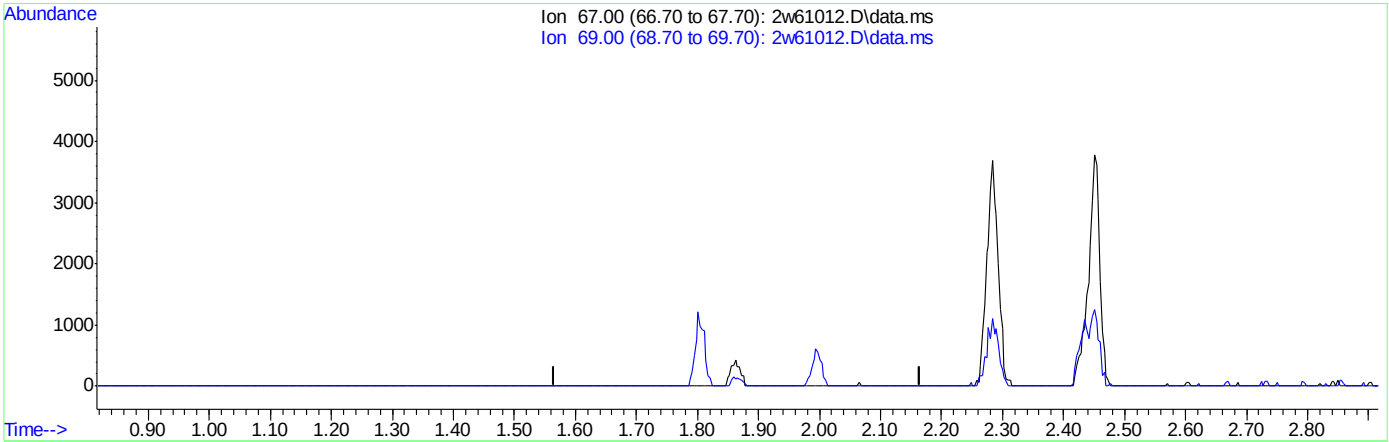
**Sample Number:** V2W2709-IC2709 **Method:** TO-15
**Lab FileID:** 2W61012.D **Analyst approved:** 08/23/22 20:59 Benjamin Kim
**Injection Time:** 08/19/22 12:27 **Supervisor approved:** 08/24/22 14:44 Kanya Veerawat

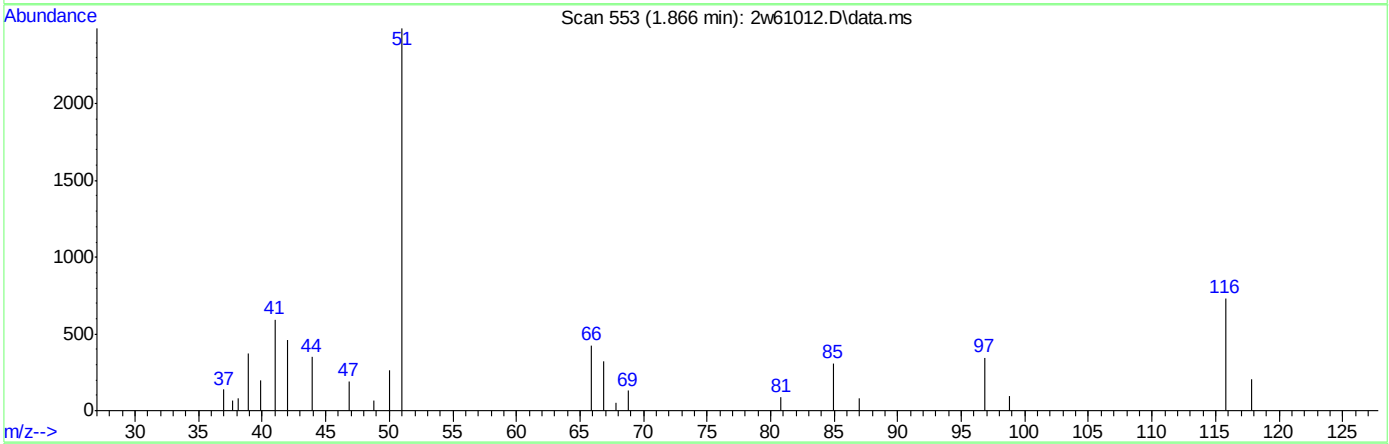
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Chlorodifluoromethane | 75-45-6 | | 1.86 | Poor instrument integration |
| Acrolein | 107-02-8 | | 2.41 | Poor instrument integration |
| Vinyl Acetate | 108-05-4 | | 3.24 | Poor instrument integration |
| m,p-Xylene | | | 11.98 | Poor instrument integration |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:54:52 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration




TIC: 2w61012.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.866min (-1.866) 0.00PPBV

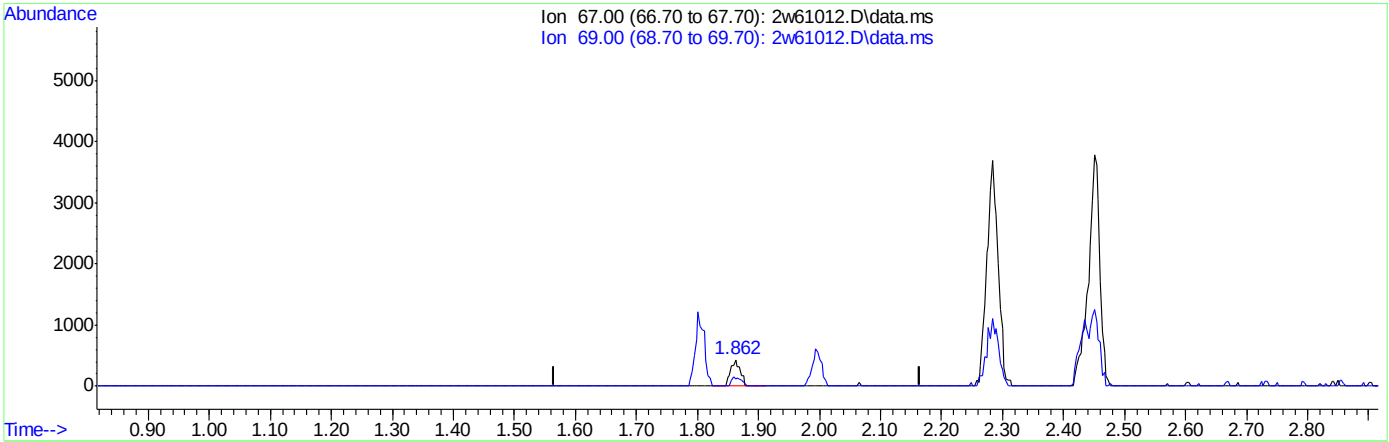
response 0

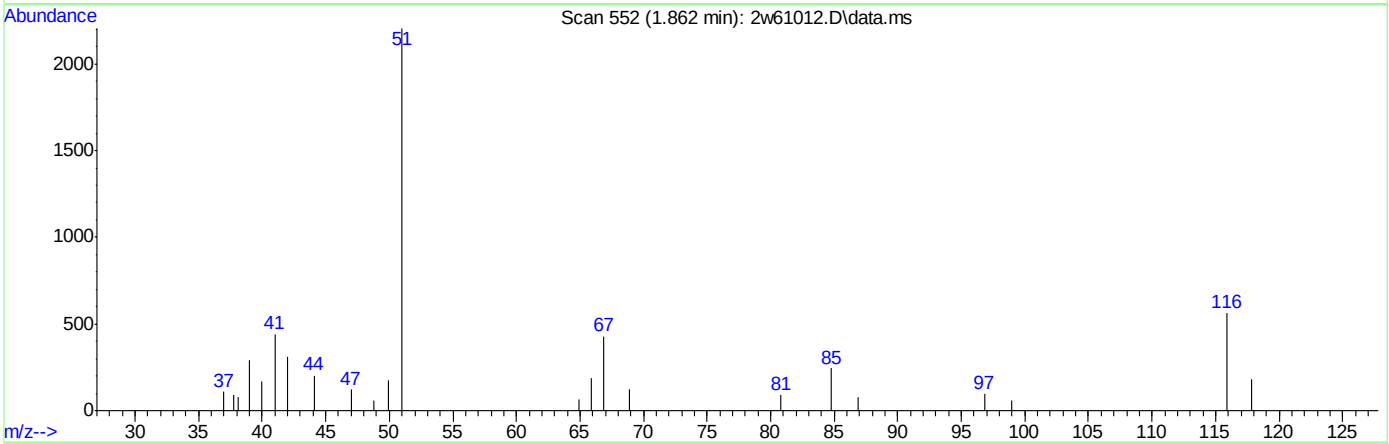
| Ion | Exp% | Act% |
|---|---|---|
| 67.00 | 100 | 0.00 |
| 69.00 | 34.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:54:52 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration




TIC: 2w61012.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.862min (-0.004) 0.19PPBV m

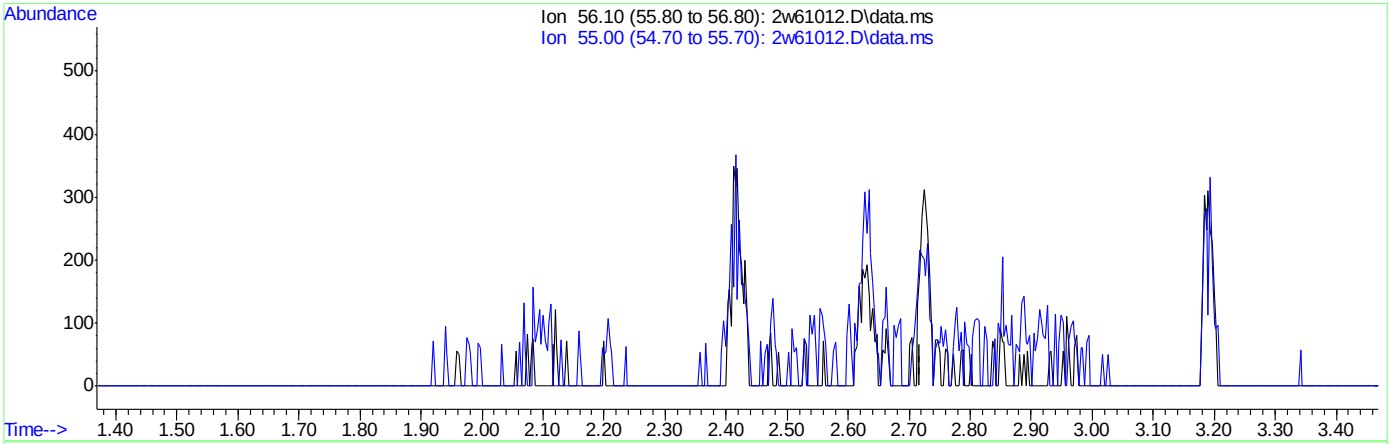
response 468

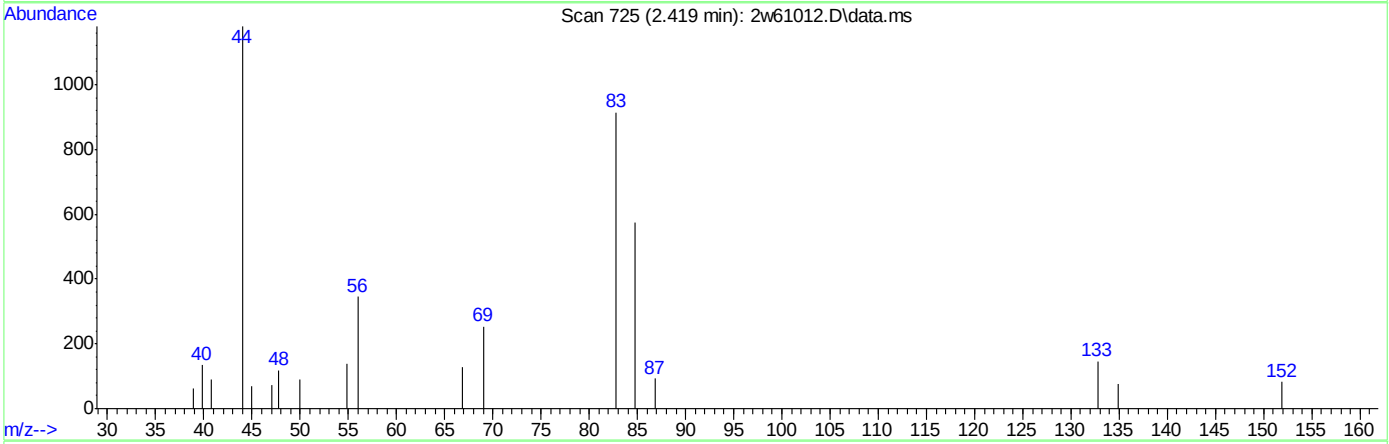
| Ion | Exp% | Act% |
|---|---|---|
| 67.00 | 100 | 100 |
| 69.00 | 34.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:54:52 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration




TIC: 2w61012.D\data.ms

(18) ACROLEIN (T)

2.419min (-2.419) 0.00PPBV

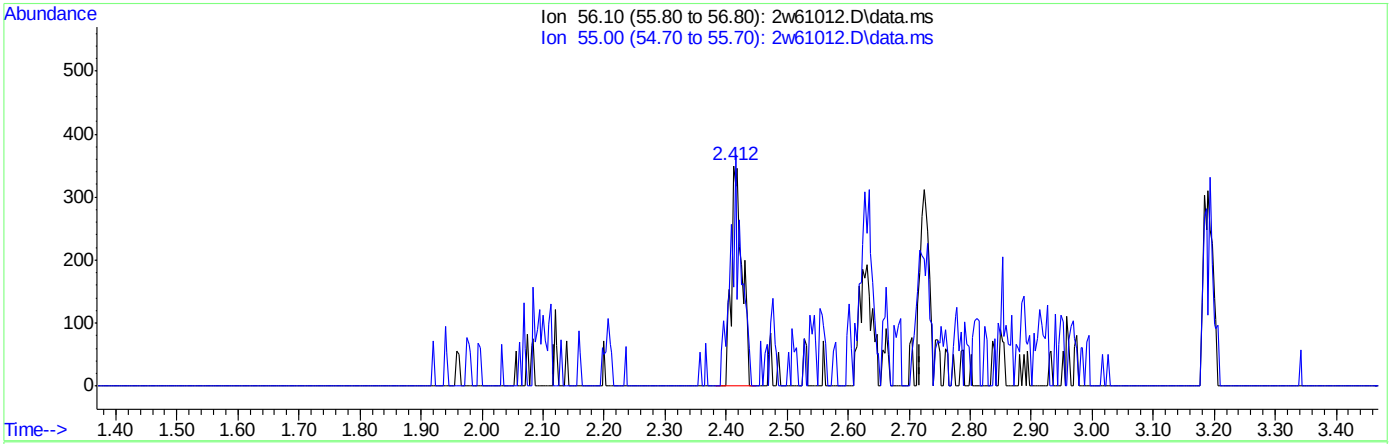
response 0

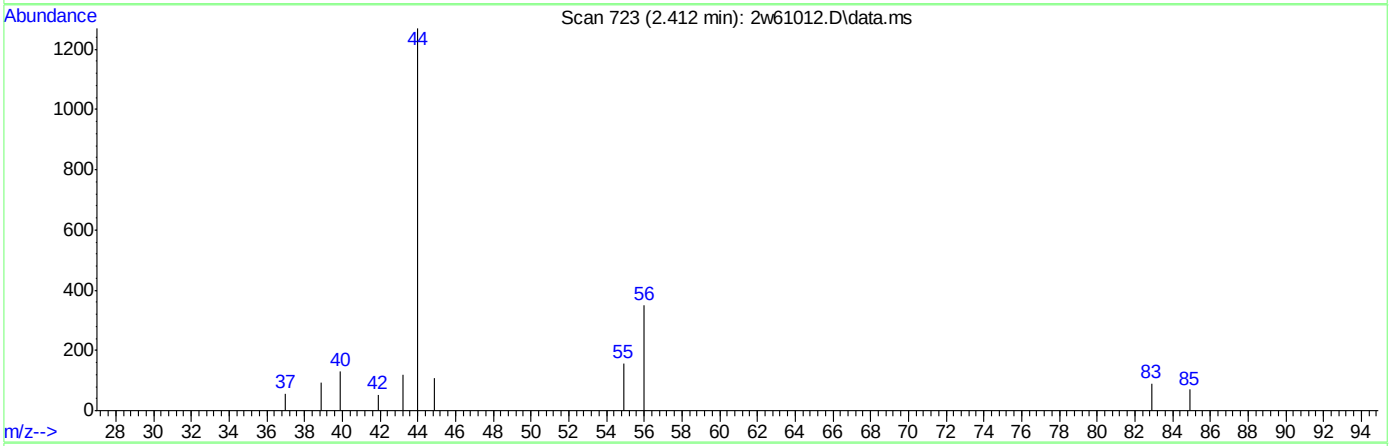
| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 0.00 |
| 55.00 | 71.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:54:52 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration




TIC: 2w61012.D\data.ms

(18) ACROLEIN (T)

2.412min (-0.007) 0.12PPBV m

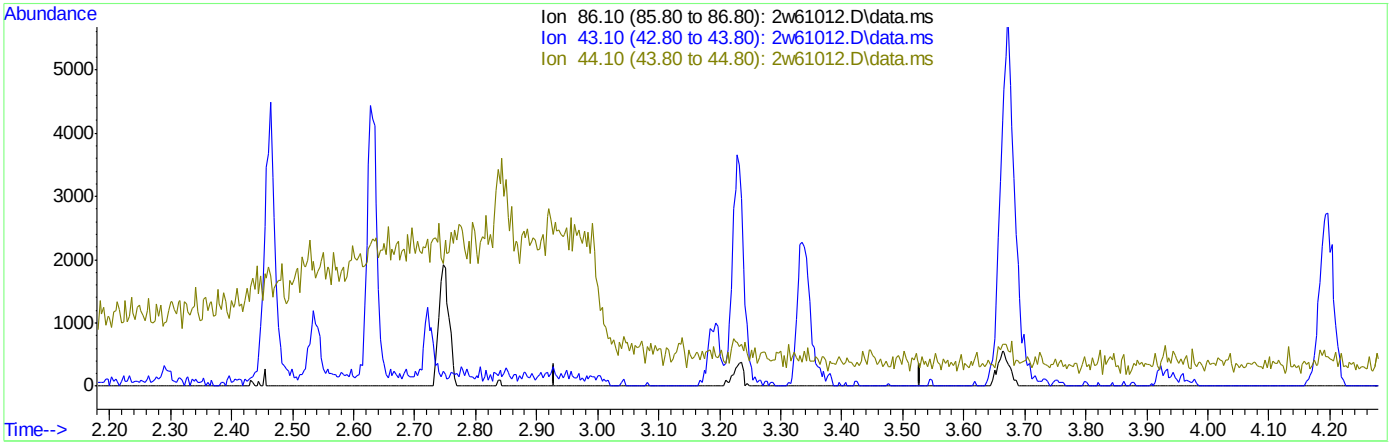
response 435

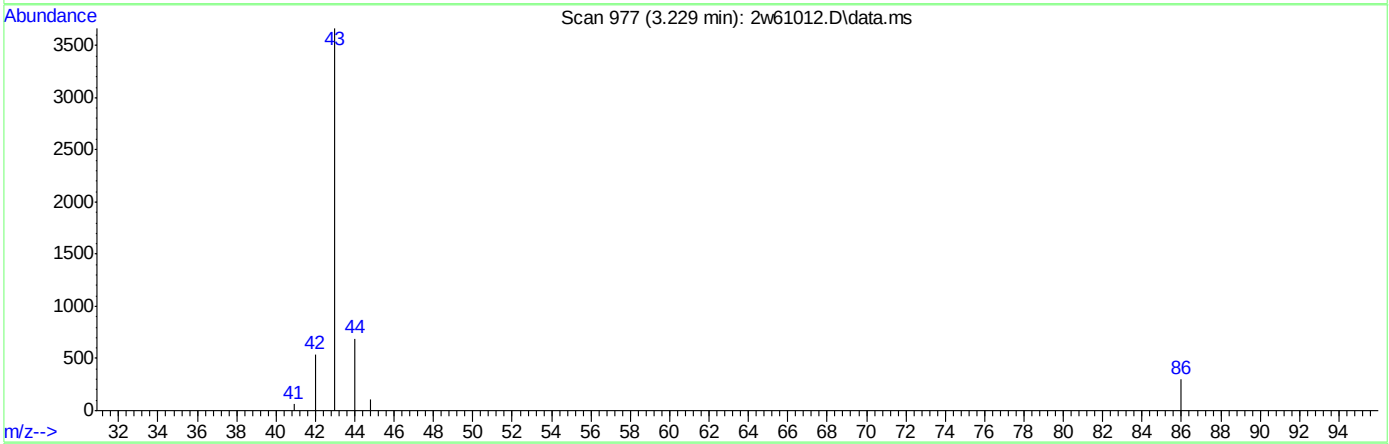
| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 100 |
| 55.00 | 71.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:54:52 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration




TIC: 2w61012.D\data.ms

(39) VINYL ACETATE (T)

3.229min (-3.229) 0.00PPBV

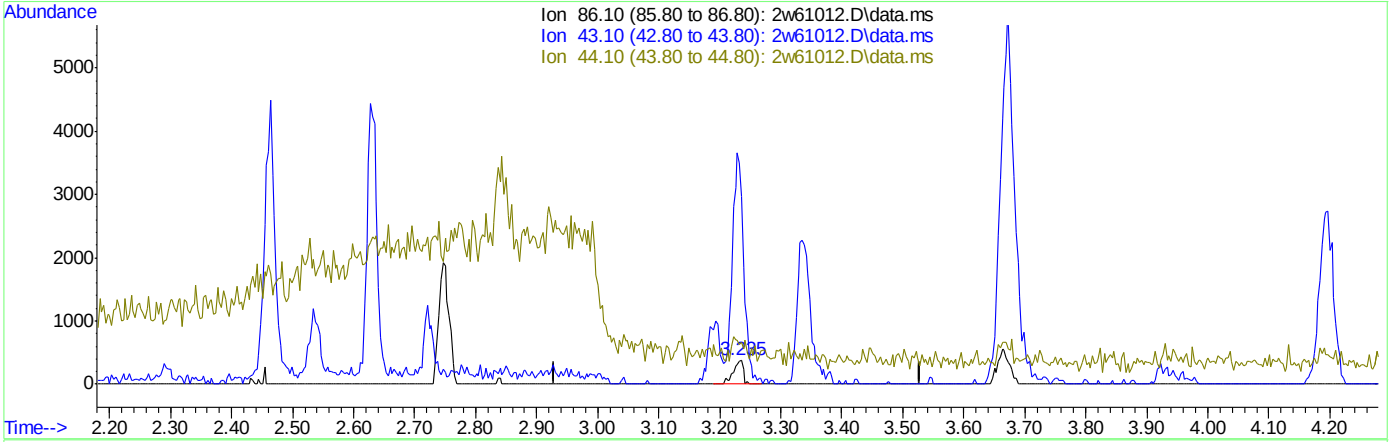
response 0

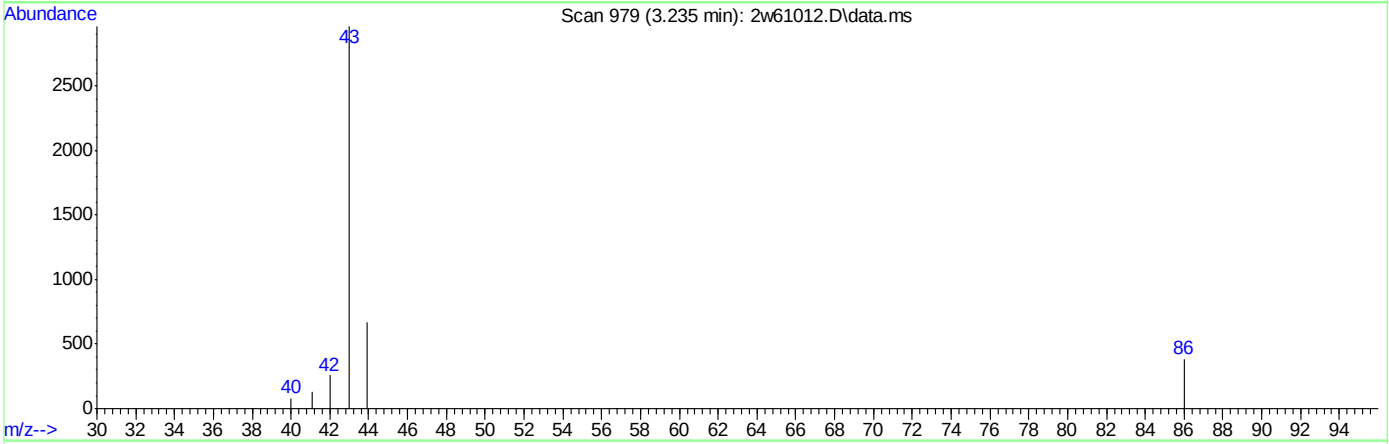
| Ion | Exp% | Act% |
|---|---|---|
| 86.10 | 100 | 0.00 |
| 43.10 | 958.60 | 0.00# |
| 44.10 | 52.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:54:52 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration




TIC: 2w61012.D\data.ms

(39) VINYL ACETATE (T)

3.235min (+0.006) 0.16PPBV m

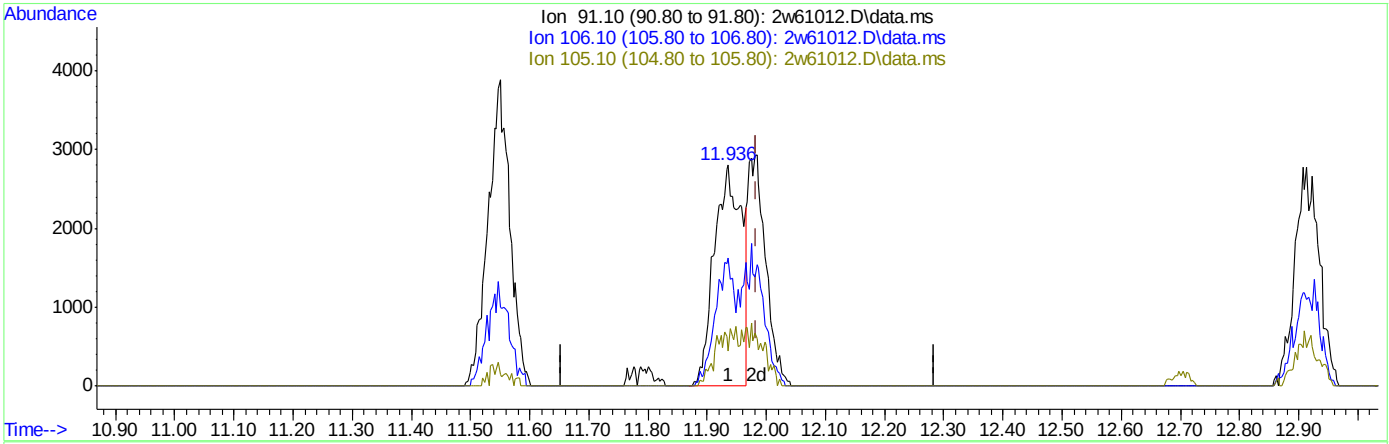
response 426

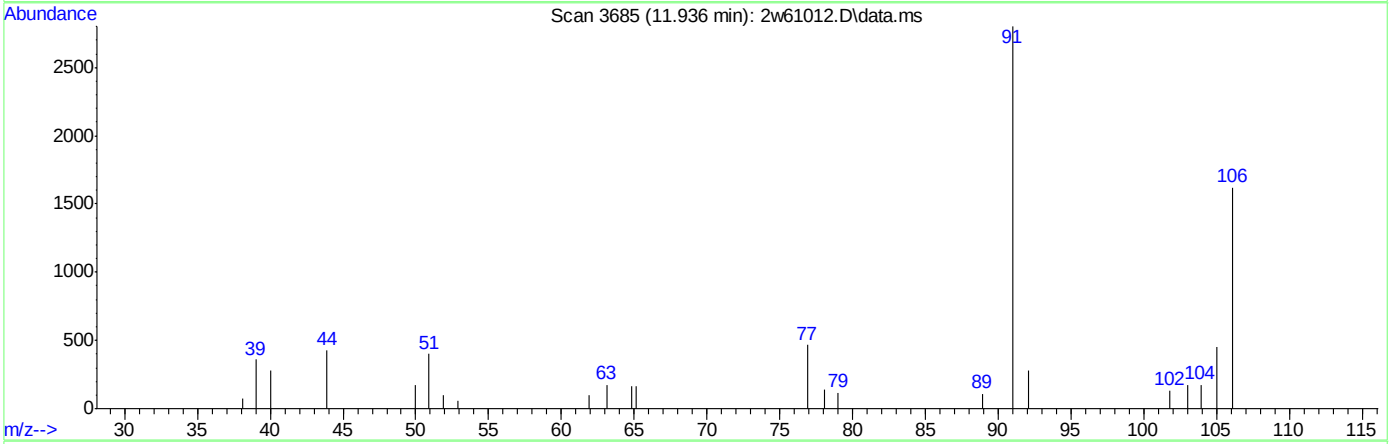
| Ion | Exp% | Act% |
|---|---|---|
| 86.10 | 100 | 100 |
| 43.10 | 958.60 | 0.00# |
| 44.10 | 52.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:55:25 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration




TIC: 2w61012.D\data.ms

(80) M,P-XYLENE (t)

11.936min (-0.049) 0.22PPBV

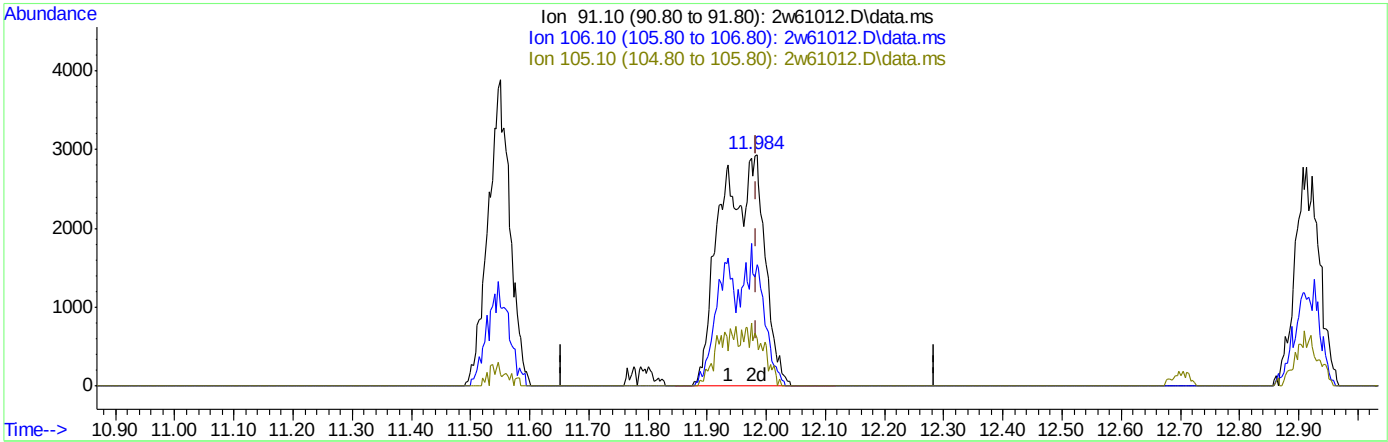
response 8831

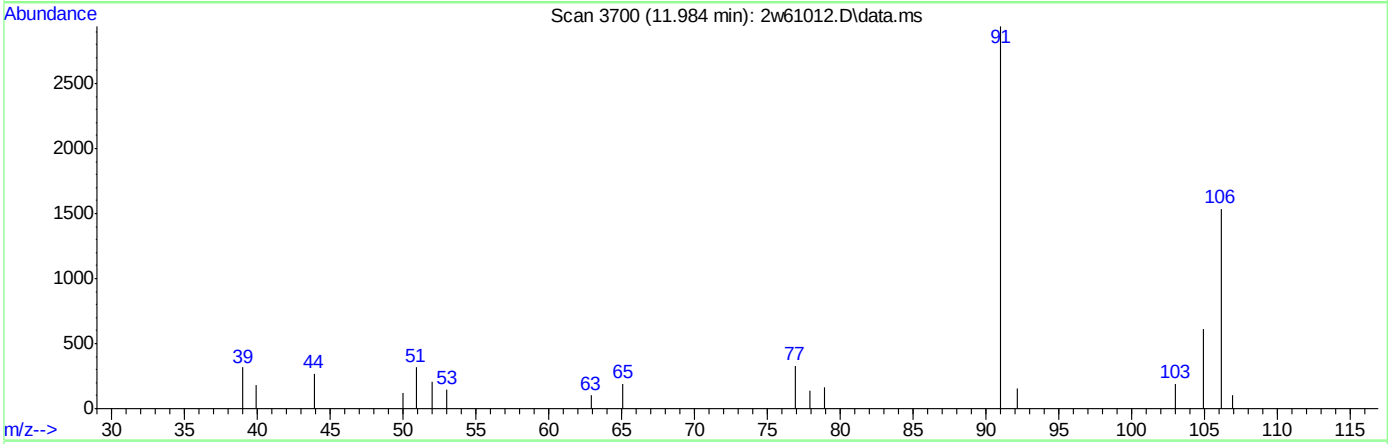
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 23.00 | 42.95 |
| 105.10 | 10.90 | 19.79 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:55:25 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration




TIC: 2w61012.D\data.ms

(80) M,P-XYLENE (t)

11.984min (-0.000) 0.36PPBV m

response 14963

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 23.00 | 25.35 |
| 105.10 | 10.90 | 11.68 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61013.D
Acq On : 19 Aug 2022 12:59 pm
Operator : thomash
Sample : ic2709-0.5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:42:13 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:53:09 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.608 | 128 | 64185 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 349033 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 311657 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.955 | 95 | 205868 | 9.86 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.846 | 65 | 2690 | 0.33 | PPBV | | 95 |
| 4) CHLORODIFLUOROMETHANE | 1.869 | 67 | 1194 | 0.31 | PPBV | # | 40 |
| 5) CHLOROTRIFLUOROETHENE | 1.882 | 116 | 6910 | 0.32 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.901 | 85 | 15281 | 0.32 | PPBV | # | 73 |
| 7) PROPYLENE | 1.875 | 41 | 2932 | 0.32 | PPBV | | 95 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.949 | 65 | 11460 | 0.31 | PPBV | # | 88 |
| 9) FREON 114 | 1.998 | 85 | 13905 | 0.32 | PPBV | | 97 |
| 10) CHLOROMETHANE | 1.962 | 52 | 1624 | 0.33 | PPBV | | 95 |
| 11) VINYL CHLORIDE | 2.043 | 62 | 5337 | 0.30 | PPBV | # | 93 |
| 12) 1,3-BUTADIENE | 2.091 | 54 | 4383 | 0.32 | PPBV | | 97 |
| 13) N-BUTANE | 2.110 | 43 | 7281 | 0.33 | PPBV | # | 94 |
| 14) BROMOMETHANE | 2.191 | 94 | 4823 | 0.31 | PPBV | | 96 |
| 15) CHLOROETHANE | 2.252 | 64 | 2897 | 0.31 | PPBV | | 95 |
| 16) DICHLOROFLUOROMETHANE | 2.287 | 67 | 11546 | 0.32 | PPBV | | 99 |
| 17) ACETONITRILE | 2.374 | 41 | 4380 | 0.34 | PPBV | | 96 |
| 18) ACROLEIN | 2.425 | 56 | 1025 | 0.13 | PPBV | | 88 |
| 19) FREON 123 | 2.432 | 83 | 12589 | 0.31 | PPBV | | 97 |
| 20) FREON 123A | 2.454 | 117 | 7200 | 0.31 | PPBV | | 99 |
| 21) TRICHLOROFLUOROMETHANE | 2.522 | 101 | 15817 | 0.31 | PPBV | # | 1 |
| 22) ISOPROPYL ALCOHOL | 2.538 | 45 | 13799 | 0.36 | PPBV | | 95 |
| 23) ACETONE | 2.464 | 58 | 5025 | 0.47 | PPBV | | 71 |
| 24) PENTANE | 2.631 | 42 | 7059 | 0.32 | PPBV | | 98 |
| 25) IODOMETHANE | 2.686 | 142 | 15489 | 0.31 | PPBV | | 99 |
| 26) 1,1-DICHLOROETHYLENE | 2.715 | 96 | 5905 | 0.30 | PPBV | | 93 |
| 27) CARBON DISULFIDE | 2.843 | 76 | 17652 | 0.31 | PPBV | # | 82 |
| 28) ETHANOL | 2.290 | 45 | 3011 | 0.44 | PPBV | # | 94 |
| 29) BROMOETHENE | 2.383 | 106 | 5030 | 0.31 | PPBV | # | 100 |
| 30) ACRYLONITRILE | 2.599 | 52 | 4918 | 0.32 | PPBV | | 95 |
| 31) METHYLENE CHLORIDE | 2.747 | 84 | 6999 | 0.36 | PPBV | | 99 |
| 32) 3-CHLOROPROPENE | 2.789 | 76 | 3495 | 0.36 | PPBV | | 96 |
| 33) FREON 113 | 2.843 | 151 | 9982 | 0.30 | PPBV | | 97 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 5129 | 0.31 | PPBV | | 97 |
| 35) TERTIARY BUTYL ALCOHOL | 2.724 | 59 | 15937 | 0.32 | PPBV | | 95 |
| 36) METHYL TERTIARY BUTYL ... | 3.190 | 73 | 13182 | 0.31 | PPBV | | 98 |
| 37) TETRAHYDROFURAN | 3.920 | 72 | 2249 | 0.30 | PPBV | | 87 |
| 38) HEXANE | 3.666 | 57 | 8621 | 0.30 | PPBV | | 97 |
| 39) VINYL ACETATE | 3.232 | 86 | 1264 | 0.31 | PPBV | # | 94 |
| 40) 1,1-DICHLOROETHANE | 3.155 | 63 | 9161 | 0.31 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.338 | 72 | 2261 | 0.30 | PPBV | | 99 |
| 42) CIS-1,2-DICHLOROETHENE | 3.528 | 96 | 5662 | 0.32 | PPBV | | 99 |
| 43) DIISOPROPYL ETHER | 3.670 | 59 | 2410 | 0.29 | PPBV | | 90 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61013.D
Acq On : 19 Aug 2022 12:59 pm
Operator : thomash
Sample : ic2709-0.5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:42:13 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:53:09 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.682 | 61 | 1655 | 0.30 | PPBV | | 79 |
| 45) METHYL ACRYLATE | 3.660 | 55 | 9722 | 0.29 | PPBV | # | 100 |
| 46) CHLOROFORM | 3.682 | 83 | 11151 | 0.32 | PPBV | | 98 |
| 47) 2,4-DIMETHYLPENTANE | 4.190 | 57 | 10708 | 0.32 | PPBV | | 98 |
| 48) 1,1,1-TRICHLOROETHANE | 4.271 | 97 | 10795 | 0.31 | PPBV | | 99 |
| 49) CARBON TETRACHLORIDE | 4.708 | 117 | 10167 | 0.29 | PPBV | | 98 |
| 50) 1,2-DICHLOROETHANE | 4.107 | 62 | 7981 | 0.33 | PPBV | # | 100 |
| 51) BENZENE | 4.596 | 78 | 16270 | 0.32 | PPBV | | 99 |
| 53) CYCLOHEXANE | 4.814 | 84 | 7209 | 0.32 | PPBV | | 98 |
| 54) 2,3-DIMETHYLPENTANE | 5.075 | 71 | 3561 | 0.32 | PPBV | | 97 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 7415 | 0.32 | PPBV | | 98 |
| 56) 1,2-DICHLOROPROPANE | 5.277 | 63 | 6506 | 0.32 | PPBV | | 100 |
| 57) DIBROMOMETHANE | 5.235 | 174 | 7757 | 0.34 | PPBV | | 98 |
| 58) ETHYL ACRYLATE | 5.403 | 55 | 10083 | 0.26 | PPBV | | 99 |
| 59) BROMODICHLOROMETHANE | 5.460 | 83 | 10997 | 0.30 | PPBV | | 98 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.608 | 57 | 29002 | 0.32 | PPBV | | 100 |
| 61) 1,4-DIOXANE | 5.554 | 88 | 3502 | 0.33 | PPBV | # | 80 |
| 62) HEPTANE | 5.930 | 43 | 8670 | 0.30 | PPBV | | 98 |
| 63) METHYL METHACRYLATE | 5.830 | 69 | 4528 | 0.25 | PPBV | | 87 |
| 64) METHYL ISOBUTYL KETONE | 6.579 | 58 | 3537 | 0.22 | PPBV | | 93 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.470 | 75 | 7930 | 0.30 | PPBV | | 99 |
| 66) TOLUENE | 7.698 | 91 | 20242 | 0.32 | PPBV | | 97 |
| 67) 1,3-DICHLOROPROPANE | 7.753 | 76 | 9325 | 0.30 | PPBV | | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.155 | 75 | 6535 | 0.28 | PPBV | | 96 |
| 69) 1,1,2-TRICHLOROETHANE | 7.316 | 83 | 6323 | 0.34 | PPBV | | 96 |
| 70) 2-HEXANONE | 8.287 | 58 | 1479 | 0.08 | PPBV | # | 1 |
| 71) ETHYL METHACRYLATE | 8.402 | 69 | 5756 | 0.21 | PPBV | | 99 |
| 72) TETRACHLOROETHENE | 9.438 | 164 | 8476 | 0.34 | PPBV | | 98 |
| 73) DIBROMOCHLOROMETHANE | 8.232 | 129 | 9599 | 0.27 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.589 | 107 | 10379 | 0.30 | PPBV | # | 99 |
| 75) OCTANE | 9.589 | 43 | 11835 | 0.31 | PPBV | | 99 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.676 | 131 | 7074 | 0.29 | PPBV | | 99 |
| 78) CHLOROBENZENE | 10.656 | 112 | 16157 | 0.32 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.544 | 91 | 25862 | 0.31 | PPBV | | 99 |
| 80) M,P-XYLENE | 11.975 | 91 | 38656 | 0.62 | PPBV | # | 90 |
| 81) O-XYLENE | 12.907 | 91 | 19059 | 0.30 | PPBV | | 100 |
| 82) STYRENE | 12.695 | 104 | 13062 | 0.28 | PPBV | | 97 |
| 83) NONANE | 14.020 | 43 | 12386 | 0.32 | PPBV | | 96 |
| 84) BROMOFORM | 11.791 | 173 | 7034 | 0.23 | PPBV | # | 97 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.917 | 83 | 14680 | 0.32 | PPBV | | 98 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.203 | 75 | 11346 | 0.33 | PPBV | # | 99 |
| 88) ISOPROPYLBENZENE | 14.431 | 120 | 8275 | 0.30 | PPBV | | 99 |
| 89) BROMOBENZENE | 14.306 | 77 | 14251 | 0.33 | PPBV | | 98 |
| 90) 2-CHLOROTOLUENE | 15.441 | 126 | 7309 | 0.32 | PPBV | | 98 |
| 91) N-PROPYLBENZENE | 15.775 | 120 | 7716 | 0.30 | PPBV | | 94 |
| 92) 4-ETHYLTOLUENE | 16.145 | 105 | 27288 | 0.30 | PPBV | # | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.302 | 105 | 22638 | 0.30 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.502 | 118 | 8368 | 0.26 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.756 | 134 | 5550 | 0.29 | PPBV | | 88 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.765 | 105 | 22848 | 0.29 | PPBV | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61013.D
Acq On : 19 Aug 2022 12:59 pm
Operator : thomash
Sample : ic2709-0.5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:42:13 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:53:09 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.846 | 91 | 8620 | 0.24 | PPBV | | 97 |
| 98) | M-DICHLOROBENZENE | 16.827 | 146 | 15883 | 0.31 | PPBV | | 98 |
| 99) | P-DICHLOROBENZENE | 16.907 | 146 | 16134 | 0.32 | PPBV | | 97 |
| 100) | O-DICHLOROBENZENE | 17.203 | 146 | 15107 | 0.31 | PPBV | | 99 |
| 101) | SEC-BUTYLBENZENE | 17.042 | 134 | 6801 | 0.29 | PPBV | | 95 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 22182 | 0.30 | PPBV | | 98 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 7457 | 0.30 | PPBV | | 98 |
| 104) | N-BUTYLBENZENE | 17.566 | 134 | 6672 | 0.29 | PPBV | | 99 |
| 105) | HEXACHLOROETHANE | 17.746 | 117 | 5759 | 0.23 | PPBV | | 100 |
| 106) | HEXACHLOROBUTADIENE | 18.794 | 225 | 11615 | 0.34 | PPBV | # | 2 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.486 | 180 | 11810 | 0.31 | PPBV | | 98 |
| 108) | NAPHTHALENE | 18.531 | 128 | 27201 | 0.30 | PPBV | | 97 |

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

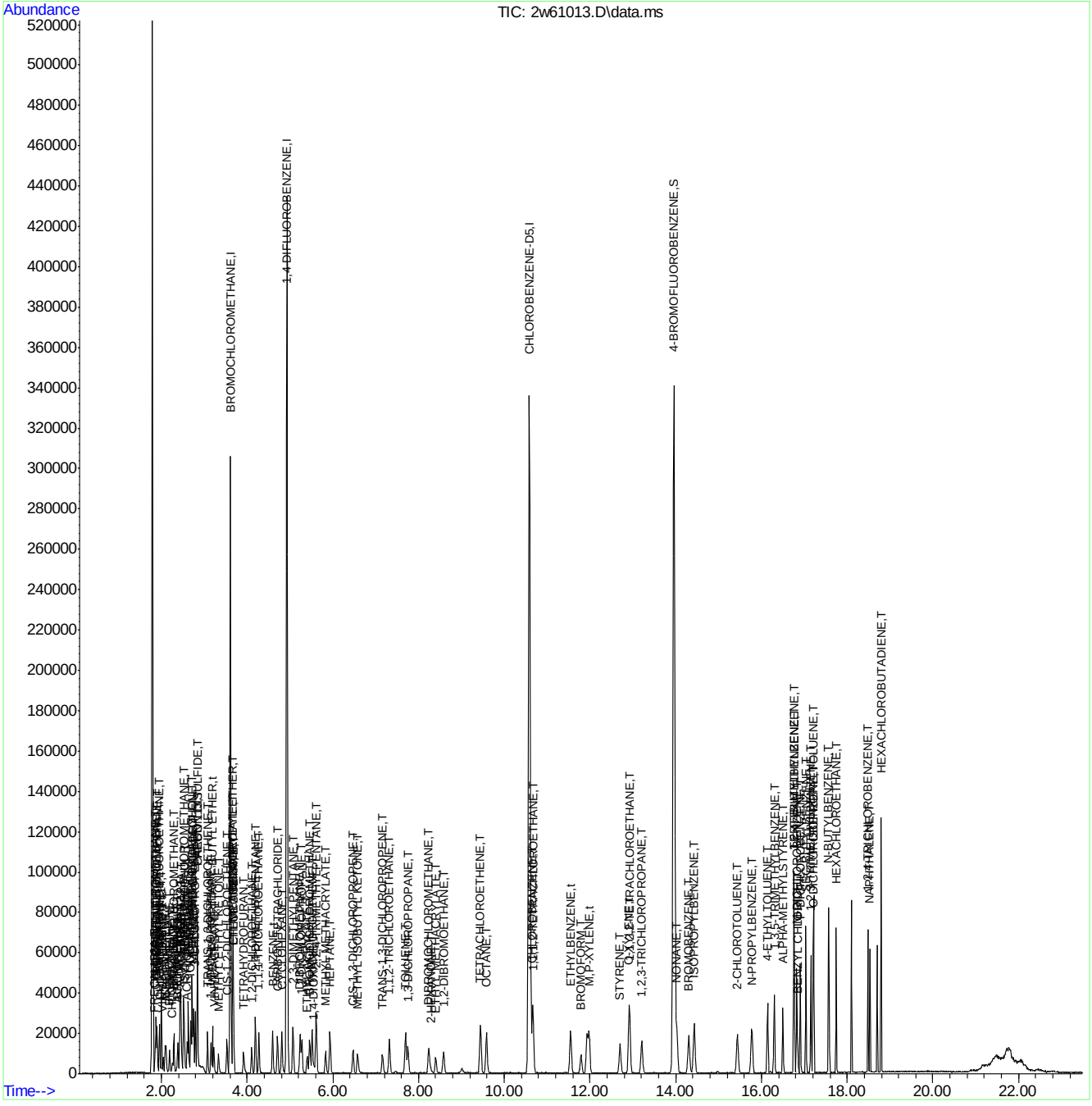
7.7.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61013.D
Acq On : 19 Aug 2022 12:59 pm
Operator : thomash
Sample : ic2709-0.5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:42:13 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:53:09 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/24/22 15:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61015.D
Acq On : 19 Aug 2022 2:02 pm
Operator : thomash
Sample : ic2709-5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:29 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:48 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.611 | 128 | 68904 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 372933 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 337350 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 226996 | 10.08 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.849 | 65 | 30277m | 5.26 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.862 | 67 | 13735 | 5.39 | PPBV | | 97 |
| 5) CHLOROTRIFLUOROETHENE | 1.878 | 116 | 79298 | 5.38 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.901 | 85 | 179220 | 5.26 | PPBV | # | 72 |
| 7) PROPYLENE | 1.875 | 41 | 33501 | 5.20 | PPBV | | 100 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.952 | 65 | 134364 | 5.24 | PPBV | | 98 |
| 9) FREON 114 | 1.997 | 85 | 162073 | 5.29 | PPBV | | 99 |
| 10) CHLOROMETHANE | 1.959 | 52 | 17709 | 5.15 | PPBV | | 98 |
| 11) VINYL CHLORIDE | 2.039 | 62 | 64081 | 5.40 | PPBV | | 100 |
| 12) 1,3-BUTADIENE | 2.091 | 54 | 49591 | 5.41 | PPBV | | 99 |
| 13) N-BUTANE | 2.110 | 43 | 81858 | 5.07 | PPBV | | 99 |
| 14) BROMOMETHANE | 2.190 | 94 | 56507 | 5.25 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.255 | 64 | 34916 | 5.51 | PPBV | | 98 |
| 16) DICHLOROFLUOROMETHANE | 2.287 | 67 | 135128 | 5.34 | PPBV | | 99 |
| 17) ACETONITRILE | 2.374 | 41 | 49247 | 5.16 | PPBV | | 99 |
| 18) ACROLEIN | 2.419 | 56 | 29000 | 7.24 | PPBV | | 99 |
| 19) FREON 123 | 2.435 | 83 | 150547 | 5.35 | PPBV | | 99 |
| 20) FREON 123A | 2.454 | 117 | 86401 | 5.31 | PPBV | | 97 |
| 21) TRICHLOROFLUOROMETHANE | 2.518 | 101 | 193650 | 5.50 | PPBV | # | 1 |
| 22) ISOPROPYL ALCOHOL | 2.534 | 45 | 141864 | 4.98 | PPBV | | 99 |
| 23) ACETONE | 2.460 | 58 | 39931 | 4.32 | PPBV | | 99 |
| 24) PENTANE | 2.628 | 42 | 80075 | 5.15 | PPBV | | 99 |
| 25) IODOMETHANE | 2.685 | 142 | 186750 | 5.41 | PPBV | | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.711 | 96 | 74742 | 5.53 | PPBV | | 98 |
| 27) CARBON DISULFIDE | 2.843 | 76 | 217801 | 5.32 | PPBV | # | 82 |
| 28) ETHANOL | 2.290 | 45 | 24212 | 4.24 | PPBV | | 99 |
| 29) BROMOETHENE | 2.383 | 106 | 59898 | 5.48 | PPBV | # | 100 |
| 30) ACRYLONITRILE | 2.602 | 52 | 58763 | 5.54 | PPBV | | 98 |
| 31) METHYLENE CHLORIDE | 2.747 | 84 | 69059 | 4.49 | PPBV | | 98 |
| 32) 3-CHLOROPROPENE | 2.785 | 76 | 36301 | 5.19 | PPBV | | 97 |
| 33) FREON 113 | 2.840 | 151 | 122707 | 5.37 | PPBV | | 99 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 61656 | 5.47 | PPBV | | 100 |
| 35) TERTIARY BUTYL ALCOHOL | 2.721 | 59 | 187952 | 5.28 | PPBV | | 99 |
| 36) METHYL TERTIARY BUTYL ... | 3.187 | 73 | 156154 | 5.33 | PPBV | | 100 |
| 37) TETRAHYDROFURAN | 3.904 | 72 | 28297 | 5.79 | PPBV | | 96 |
| 38) HEXANE | 3.663 | 57 | 105560 | 5.35 | PPBV | | 100 |
| 39) VINYL ACETATE | 3.229 | 86 | 15080 | 5.43 | PPBV | | 91 |
| 40) 1,1-DICHLOROETHANE | 3.155 | 63 | 109341 | 5.41 | PPBV | | 100 |
| 41) METHYL ETHYL KETONE | 3.325 | 72 | 28931 | 5.82 | PPBV | | 100 |
| 42) CIS-1,2-DICHLOROETHENE | 3.531 | 96 | 65373 | 5.39 | PPBV | | 99 |
| 43) DIISOPROPYL ETHER | 3.666 | 59 | 30863 | 5.34 | PPBV | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61015.D
Acq On : 19 Aug 2022 2:02 pm
Operator : thomash
Sample : ic2709-5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:29 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:48 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.673 | 61 | 22073 | 3.78 | PPBV | | 99 |
| 45) METHYL ACRYLATE | 3.656 | 55 | 127464 | 5.52 | PPBV | # | 99 |
| 46) CHLOROFORM | 3.685 | 83 | 133214 | 5.39 | PPBV | | 99 |
| 47) 2,4-DIMETHYLPENTANE | 4.193 | 57 | 124025 | 5.40 | PPBV | | 99 |
| 48) 1,1,1-TRICHLOROETHANE | 4.274 | 97 | 132317 | 5.37 | PPBV | | 99 |
| 49) CARBON TETRACHLORIDE | 4.711 | 117 | 131707 | 5.40 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 4.107 | 62 | 90456 | 5.41 | PPBV | # | 100 |
| 51) BENZENE | 4.595 | 78 | 189412 | 5.37 | PPBV | | 100 |
| 53) CYCLOHEXANE | 4.808 | 84 | 83640 | 5.36 | PPBV | | 99 |
| 54) 2,3-DIMETHYLPENTANE | 5.071 | 71 | 41391 | 5.41 | PPBV | | 97 |
| 55) TRICHLOROETHENE | 5.515 | 95 | 87638 | 5.44 | PPBV | | 98 |
| 56) 1,2-DICHLOROPROPANE | 5.280 | 63 | 75050 | 5.31 | PPBV | | 99 |
| 57) DIBROMOMETHANE | 5.238 | 174 | 83527 | 5.16 | PPBV | | 99 |
| 58) ETHYL ACRYLATE | 5.393 | 55 | 151519 | 5.77 | PPBV | | 100 |
| 59) BROMODICHLOROMETHANE | 5.460 | 83 | 139406 | 5.39 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 330571 | 5.28 | PPBV | | 100 |
| 61) 1,4-DIOXANE | 5.528 | 88 | 40800 | 5.43 | PPBV | | 99 |
| 62) HEPTANE | 5.933 | 43 | 103774 | 5.27 | PPBV | | 99 |
| 63) METHYL METHACRYLATE | 5.824 | 69 | 69360 | 5.82 | PPBV | | 100 |
| 64) METHYL ISOBUTYL KETONE | 6.573 | 58 | 59949 | 6.07 | PPBV | | 99 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.470 | 75 | 103405 | 5.56 | PPBV | | 100 |
| 66) TOLUENE | 7.695 | 91 | 235719 | 5.28 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.756 | 76 | 114312 | 5.40 | PPBV | | 99 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.158 | 75 | 90768 | 5.42 | PPBV | | 99 |
| 69) 1,1,2-TRICHLOROETHANE | 7.322 | 83 | 70318 | 5.39 | PPBV | | 99 |
| 70) 2-HEXANONE | 8.258 | 58 | 71057 | 7.60 | PPBV | # | 1 |
| 71) ETHYL METHACRYLATE | 8.399 | 69 | 105244 | 6.11 | PPBV | | 99 |
| 72) TETRACHLOROETHENE | 9.447 | 164 | 92942 | 5.16 | PPBV | | 98 |
| 73) DIBROMOCHLOROMETHANE | 8.238 | 129 | 140255 | 5.54 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.589 | 107 | 130670 | 5.52 | PPBV | | 100 |
| 75) OCTANE | 9.586 | 43 | 141914 | 5.38 | PPBV | | 99 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.669 | 131 | 97603 | 5.39 | PPBV | | 100 |
| 78) CHLOROBENZENE | 10.656 | 112 | 190132 | 5.28 | PPBV | | 100 |
| 79) ETHYLBENZENE | 11.547 | 91 | 313080 | 5.48 | PPBV | | 100 |
| 80) M,P-XYLENE | 11.978 | 91 | 477395 | 12.58 | PPBV | | 96 |
| 81) O-XYLENE | 12.913 | 91 | 242396 | 5.45 | PPBV | | 97 |
| 82) STYRENE | 12.701 | 104 | 182021 | 5.77 | PPBV | | 99 |
| 83) NONANE | 14.029 | 43 | 146486 | 5.32 | PPBV | | 98 |
| 84) BROMOFORM | 11.788 | 173 | 126169 | 5.85 | PPBV | | 100 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.923 | 83 | 177715 | 5.36 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.209 | 75 | 131429 | 5.41 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.431 | 120 | 103958 | 5.53 | PPBV | | 100 |
| 89) BROMOBENZENE | 14.309 | 77 | 166432 | 5.41 | PPBV | | 99 |
| 90) 2-CHLOROTOLUENE | 15.444 | 126 | 87032 | 5.74 | PPBV | | 100 |
| 91) N-PROPYLBENZENE | 15.775 | 120 | 97336 | 5.65 | PPBV | | 100 |
| 92) 4-ETHYLTOLUENE | 16.145 | 105 | 356332 | 5.61 | PPBV | | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.302 | 105 | 294822 | 5.56 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.502 | 118 | 130661 | 5.90 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.759 | 134 | 74564 | 5.48 | PPBV | | 99 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.765 | 105 | 307567 | 5.40 | PPBV | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61015.D
Acq On : 19 Aug 2022 2:02 pm
Operator : thomash
Sample : ic2709-5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:29 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:48 2022
Response via : Initial Calibration

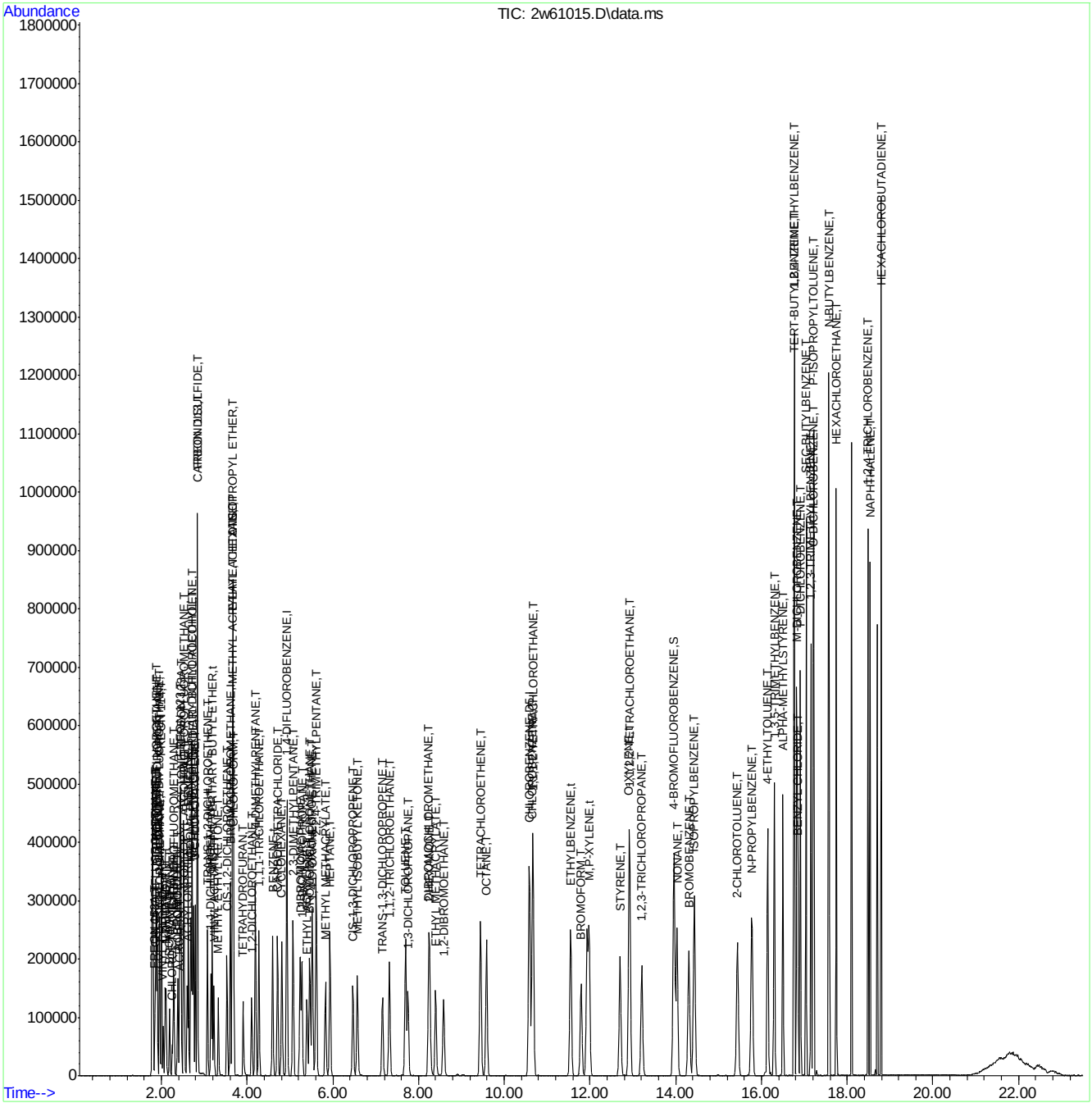
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.849 | 91 | 168900 | 5.14 | PPBV | 100 |
| 98) | M-DICHLOROBENZENE | 16.826 | 146 | 207297 | 5.56 | PPBV | 100 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 206717 | 5.46 | PPBV | 99 |
| 100) | O-DICHLOROBENZENE | 17.206 | 146 | 195819 | 5.30 | PPBV | 98 |
| 101) | SEC-BUTYLBENZENE | 17.042 | 134 | 93115 | 5.51 | PPBV | 97 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 298704 | 5.57 | PPBV | 99 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 98046 | 5.23 | PPBV | 99 |
| 104) | N-BUTYLBENZENE | 17.569 | 134 | 93276 | 5.41 | PPBV | 98 |
| 105) | HEXACHLOROETHANE | 17.746 | 117 | 106859 | 5.34 | PPBV | 99 |
| 106) | HEXACHLOROBUTADIENE | 18.797 | 225 | 134530 | 4.56 | PPBV # | 1 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.485 | 180 | 153262 | 4.97 | PPBV | 99 |
| 108) | NAPHTHALENE | 18.534 | 128 | 373864 | 5.07 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61015.D
Acq On : 19 Aug 2022 2:02 pm
Operator : thomash
Sample : ic2709-5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:29 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:48 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



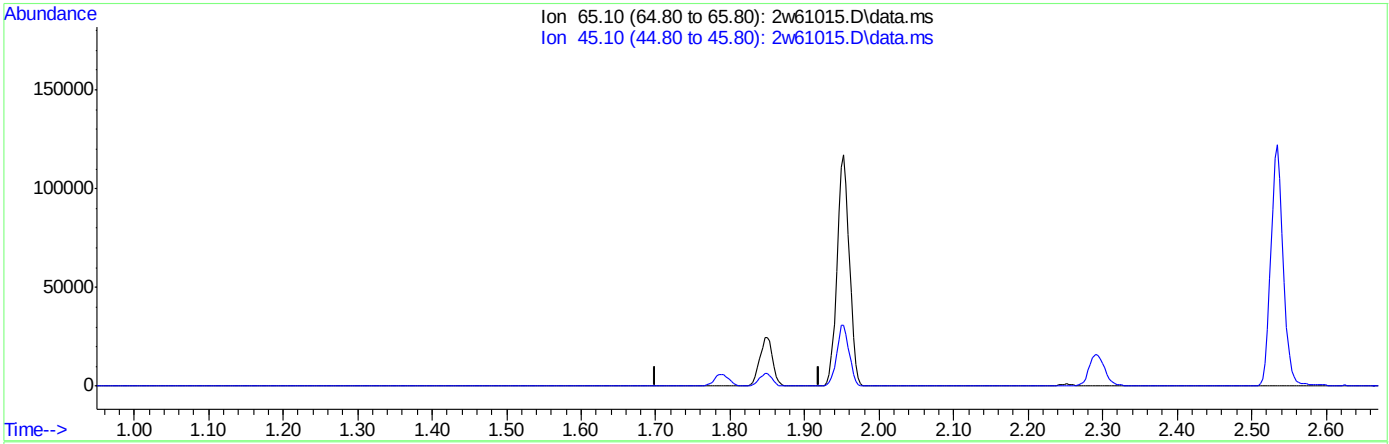
| | | | |
|---|---|---|---|
| **Sample Number:** | V2W2709-IC2709 | **Method:** | TO-15 |
| **Lab FileID:** | 2W61015.D | **Analyst approved:** | 08/23/22 17:35 Benjamin Kim |
| **Injection Time:** | 08/19/22 14:02 | **Supervisor approved:** | 08/24/22 15:08 Kanya Veerawat |

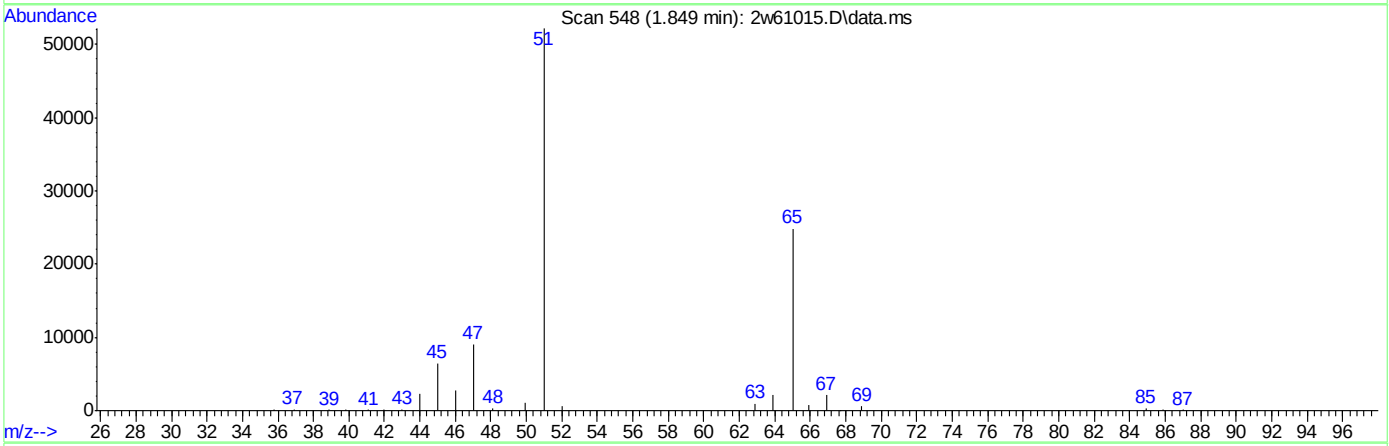
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.85 | Poor instrument integration |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61015.D
Acq On : 19 Aug 2022 2:02 pm
Operator : thomash
Sample : ic2709-5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 22 22:03:16 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:48 2022
Response via : Initial Calibration




TIC: 2w61015.D\data.ms

(3) FREON 152A (T)

1.850min (-1.850) 0.00PPBV

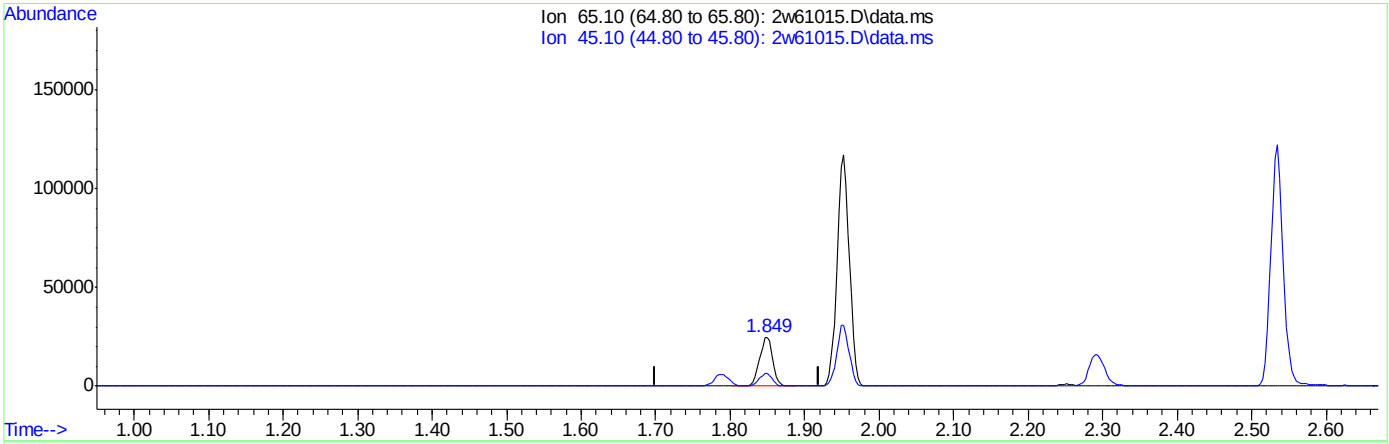
response 0

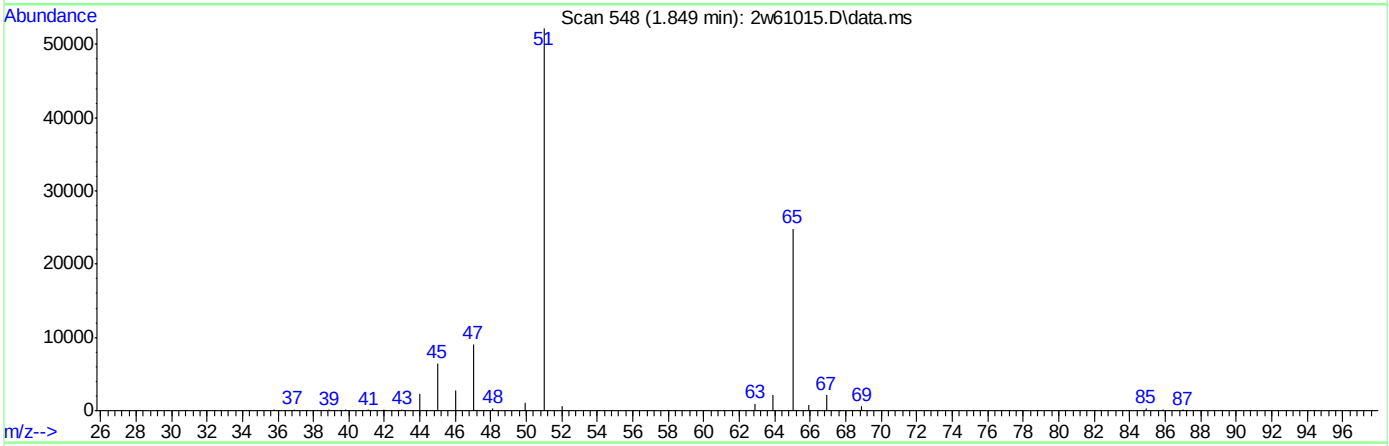
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 0.00 |
| 45.10 | 27.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61015.D
Acq On : 19 Aug 2022 2:02 pm
Operator : thomash
Sample : ic2709-5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 22 22:03:16 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:48 2022
Response via : Initial Calibration




TIC: 2w61015.D\data.ms

(3) FREON 152A (T)

1.849min (-0.001) 5.26PPBV m

response 30277

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 27.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/24/22 22:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61016.D
Acq On : 19 Aug 2022 2:34 pm
Operator : thomash
Sample : icc2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 16:20:24 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.612 | 128 | 68573 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 368687 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.583 | 117 | 341921 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.959 | 95 | 230073 | 10.11 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 3) FREON 152A | 1.850 | 65 | 59612m | 10.34 | PPBV | |
| 4) CHLORODIFLUOROMETHANE | 1.866 | 67 | 27345 | 10.68 | PPBV | 100 |
| 5) CHLOROTRIFLUOROETHENE | 1.882 | 116 | 153518 | 10.36 | PPBV | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.901 | 85 | 351123 | 10.29 | PPBV | 100 |
| 7) PROPYLENE | 1.879 | 41 | 63634 | 9.88 | PPBV | 100 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.953 | 65 | 265285 | 10.33 | PPBV | 100 |
| 9) FREON 114 | 1.998 | 85 | 314778 | 10.24 | PPBV | 100 |
| 10) CHLOROMETHANE | 1.962 | 52 | 33845 | 9.85 | PPBV | 100 |
| 11) VINYL CHLORIDE | 2.039 | 62 | 124106 | 10.40 | PPBV | 100 |
| 12) 1,3-BUTADIENE | 2.094 | 54 | 95763 | 10.39 | PPBV | 100 |
| 13) N-BUTANE | 2.113 | 43 | 154908 | 9.65 | PPBV | 100 |
| 14) BROMOMETHANE | 2.191 | 94 | 108807 | 10.09 | PPBV | 100 |
| 15) CHLOROETHANE | 2.255 | 64 | 66908 | 10.48 | PPBV | 100 |
| 16) DICHLOROFLUOROMETHANE | 2.287 | 67 | 262644 | 10.34 | PPBV | 100 |
| 17) ACETONITRILE | 2.374 | 41 | 94343 | 9.89 | PPBV | 100 |
| 18) ACROLEIN | 2.419 | 56 | 55545 | 13.19 | PPBV | 100 |
| 19) FREON 123 | 2.435 | 83 | 291157 | 10.31 | PPBV | 100 |
| 20) FREON 123A | 2.454 | 117 | 168569 | 10.32 | PPBV | 100 |
| 21) TRICHLOROFLUOROMETHANE | 2.519 | 101 | 370665 | 10.44 | PPBV | 100 |
| 22) ISOPROPYL ALCOHOL | 2.535 | 45 | 272143 | 9.60 | PPBV | 100 |
| 23) ACETONE | 2.461 | 58 | 75620 | 8.37 | PPBV | 100 |
| 24) PENTANE | 2.631 | 42 | 151254 | 9.74 | PPBV | 100 |
| 25) IODOMETHANE | 2.686 | 142 | 357923 | 10.31 | PPBV | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.712 | 96 | 140890 | 10.34 | PPBV | 100 |
| 27) CARBON DISULFIDE | 2.843 | 76 | 427514 | 10.42 | PPBV | 100 |
| 28) ETHANOL | 2.293 | 45 | 46818 | 8.39 | PPBV | 100 |
| 29) BROMOETHENE | 2.384 | 106 | 116683 | 10.60 | PPBV | 100 |
| 30) ACRYLONITRILE | 2.602 | 52 | 112584 | 10.52 | PPBV | 100 |
| 31) METHYLENE CHLORIDE | 2.747 | 84 | 130773 | 8.65 | PPBV | 100 |
| 32) 3-CHLOROPROPENE | 2.789 | 76 | 69034 | 9.87 | PPBV | 100 |
| 33) FREON 113 | 2.840 | 151 | 237044 | 10.32 | PPBV | 100 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 117179 | 10.33 | PPBV | 100 |
| 35) TERTIARY BUTYL ALCOHOL | 2.721 | 59 | 359669 | 10.07 | PPBV | 100 |
| 36) METHYL TERTIARY BUTYL ... | 3.187 | 73 | 298016 | 10.14 | PPBV | 100 |
| 37) TETRAHYDROFURAN | 3.901 | 72 | 54925 | 11.08 | PPBV | 100 |
| 38) HEXANE | 3.663 | 57 | 203953 | 10.29 | PPBV | 100 |
| 39) VINYL ACETATE | 3.229 | 86 | 30940 | 11.08 | PPBV | 100 |
| 40) 1,1-DICHLOROETHANE | 3.155 | 63 | 209154 | 10.30 | PPBV | 100 |
| 41) METHYL ETHYL KETONE | 3.326 | 72 | 54875 | 10.87 | PPBV | 100 |
| 42) CIS-1,2-DICHLOROETHENE | 3.531 | 96 | 125045 | 10.27 | PPBV | 100 |
| 43) DIISOPROPYL ETHER | 3.666 | 59 | 59819 | 10.31 | PPBV | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61016.D
Acq On : 19 Aug 2022 2:34 pm
Operator : thomash
Sample : icc2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 16:20:24 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.670 | 61 | 42234 | 10.40 | PPBV | | 100 |
| 45) METHYL ACRYLATE | 3.657 | 55 | 250063 | 10.73 | PPBV | # | 100 |
| 46) CHLOROFORM | 3.686 | 83 | 253357 | 10.21 | PPBV | | 100 |
| 47) 2,4-DIMETHYLPENTANE | 4.197 | 57 | 234018 | 10.14 | PPBV | | 100 |
| 48) 1,1,1-TRICHLOROETHANE | 4.277 | 97 | 257312 | 10.40 | PPBV | | 100 |
| 49) CARBON TETRACHLORIDE | 4.708 | 117 | 262842 | 10.72 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 4.107 | 62 | 174278 | 10.37 | PPBV | | 100 |
| 51) BENZENE | 4.596 | 78 | 358852 | 10.13 | PPBV | | 100 |
| 53) CYCLOHEXANE | 4.811 | 84 | 159715 | 10.27 | PPBV | | 100 |
| 54) 2,3-DIMETHYLPENTANE | 5.072 | 71 | 79395 | 10.39 | PPBV | | 100 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 168401 | 10.78 | PPBV | | 100 |
| 56) 1,2-DICHLOROPROPANE | 5.277 | 63 | 142643 | 10.14 | PPBV | | 100 |
| 57) DIBROMOMETHANE | 5.236 | 174 | 159338 | 9.91 | PPBV | | 100 |
| 58) ETHYL ACRYLATE | 5.393 | 55 | 291414 | 11.02 | PPBV | | 100 |
| 59) BROMODICHLOROMETHANE | 5.461 | 83 | 275581 | 10.68 | PPBV | | 100 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.612 | 57 | 626816 | 10.06 | PPBV | | 100 |
| 61) 1,4-DIOXANE | 5.525 | 88 | 77546 | 10.27 | PPBV | | 100 |
| 62) HEPTANE | 5.933 | 43 | 195964 | 9.99 | PPBV | | 100 |
| 63) METHYL METHACRYLATE | 5.824 | 69 | 133764 | 11.13 | PPBV | | 100 |
| 64) METHYL ISOBUTYL KETONE | 6.570 | 58 | 115015 | 11.47 | PPBV | | 100 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.473 | 75 | 201430 | 10.80 | PPBV | | 100 |
| 66) TOLUENE | 7.698 | 91 | 456270 | 10.27 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.756 | 76 | 221387 | 10.48 | PPBV | | 100 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.158 | 75 | 185288 | 11.08 | PPBV | | 100 |
| 69) 1,1,2-TRICHLOROETHANE | 7.319 | 83 | 133196 | 10.23 | PPBV | | 100 |
| 70) 2-HEXANONE | 8.261 | 58 | 140692 | 10.05 | PPBV | | 100 |
| 71) ETHYL METHACRYLATE | 8.399 | 69 | 210424 | 12.02 | PPBV | | 100 |
| 72) TETRACHLOROETHENE | 9.448 | 164 | 180925 | 10.17 | PPBV | | 100 |
| 73) DIBROMOCHLOROMETHANE | 8.239 | 129 | 283293 | 11.17 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.589 | 107 | 254212 | 10.72 | PPBV | | 100 |
| 75) OCTANE | 9.589 | 43 | 270687 | 10.27 | PPBV | | 100 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.676 | 131 | 195924 | 10.58 | PPBV | | 100 |
| 78) CHLOROBENZENE | 10.663 | 112 | 373765 | 10.17 | PPBV | | 100 |
| 79) ETHYLBENZENE | 11.550 | 91 | 606877 | 10.36 | PPBV | | 100 |
| 80) M,P-XYLENE | 11.984 | 91 | 931500 | 20.91 | PPBV | | 100 |
| 81) O-XYLENE | 12.920 | 91 | 474584 | 10.42 | PPBV | | 100 |
| 82) STYRENE | 12.705 | 104 | 362579 | 11.12 | PPBV | | 100 |
| 83) NONANE | 14.033 | 43 | 285197 | 10.14 | PPBV | | 100 |
| 84) BROMOFORM | 11.795 | 173 | 263671 | 11.19 | PPBV | | 100 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.927 | 83 | 348949 | 10.30 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.213 | 75 | 255217 | 10.27 | PPBV | | 100 |
| 88) ISOPROPYLBENZENE | 14.438 | 120 | 201148 | 10.42 | PPBV | | 100 |
| 89) BROMOBENZENE | 14.306 | 77 | 324788 | 10.31 | PPBV | | 100 |
| 90) 2-CHLOROTOLUENE | 15.441 | 126 | 168206 | 10.37 | PPBV | | 100 |
| 91) N-PROPYLBENZENE | 15.775 | 120 | 190916 | 10.76 | PPBV | | 100 |
| 92) 4-ETHYLTOLUENE | 16.148 | 105 | 697047 | 10.66 | PPBV | | 100 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.303 | 105 | 574603 | 10.54 | PPBV | | 100 |
| 94) ALPHA-METHYLSTYRENE | 16.502 | 118 | 254586 | 11.10 | PPBV | | 100 |
| 95) TERT-BUTYLBENZENE | 16.759 | 134 | 146096 | 10.47 | PPBV | | 100 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.769 | 105 | 603160 | 10.35 | PPBV | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61016.D
Acq On : 19 Aug 2022 2:34 pm
Operator : thomash
Sample : icc2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 16:20:24 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

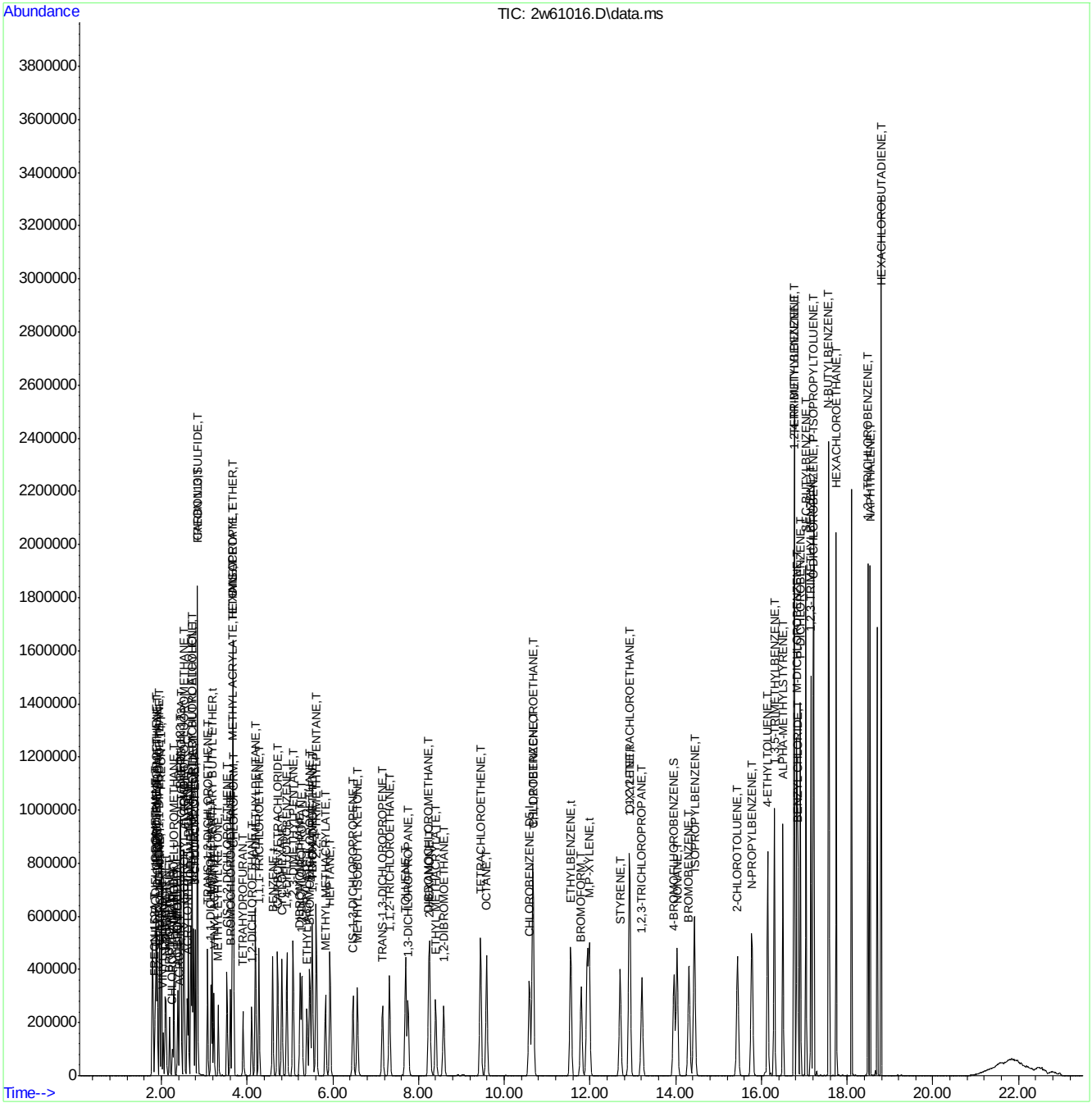
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 97) BENZYL CHLORIDE | 16.849 | 91 | 387750 | 10.74 | PPBV | 100 |
| 98) M-DICHLOROBENZENE | 16.827 | 146 | 397777 | 10.38 | PPBV | 100 |
| 99) P-DICHLOROBENZENE | 16.910 | 146 | 402097 | 10.35 | PPBV | 100 |
| 100) O-DICHLOROBENZENE | 17.206 | 146 | 382073 | 10.13 | PPBV | 100 |
| 101) SEC-BUTYLBENZENE | 17.042 | 134 | 178508 | 10.29 | PPBV | 100 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 577798 | 10.48 | PPBV | 100 |
| 103) P-ISOPROPYLTOLUENE | 17.219 | 134 | 196741 | 10.30 | PPBV | 100 |
| 104) N-BUTYLBENZENE | 17.566 | 134 | 185259 | 10.49 | PPBV | 100 |
| 105) HEXACHLOROETHANE | 17.746 | 117 | 227539 | 10.51 | PPBV | 100 |
| 106) HEXACHLOROBUTADIENE | 18.794 | 225 | 274670 | 9.28 | PPBV | 100 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.486 | 180 | 319072 | 10.22 | PPBV | 100 |
| 108) NAPHTHALENE | 18.534 | 128 | 794905 | 9.96 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61016.D
Acq On : 19 Aug 2022 2:34 pm
Operator : thomash
Sample : icc2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 16:20:24 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




M2W2709.M Fri Aug 26 18:50:29 2022 GCMS2W Page: 4

# Manual Integration Approval Summary



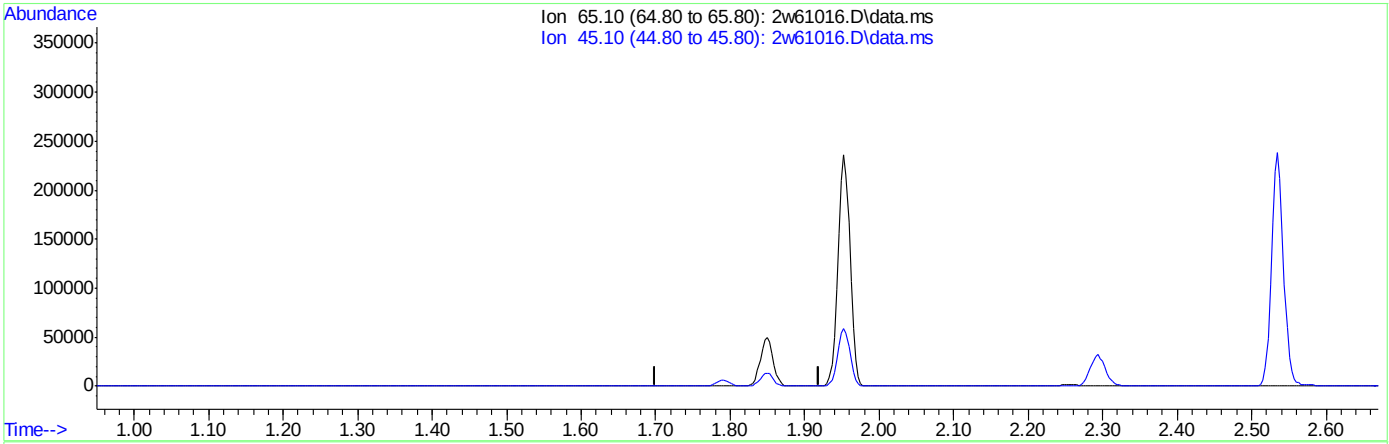
| | | | |
|---|---|---|---|
| **Sample Number:** | V2W2709-ICC2709 | **Method:** | TO-15 |
| **Lab FileID:** | 2W61016.D | **Analyst approved:** | 08/24/22 16:27 Benjamin Kim |
| **Injection Time:** | 08/19/22 14:34 | **Supervisor approved:** | 08/24/22 22:11 Kanya Veerawat |

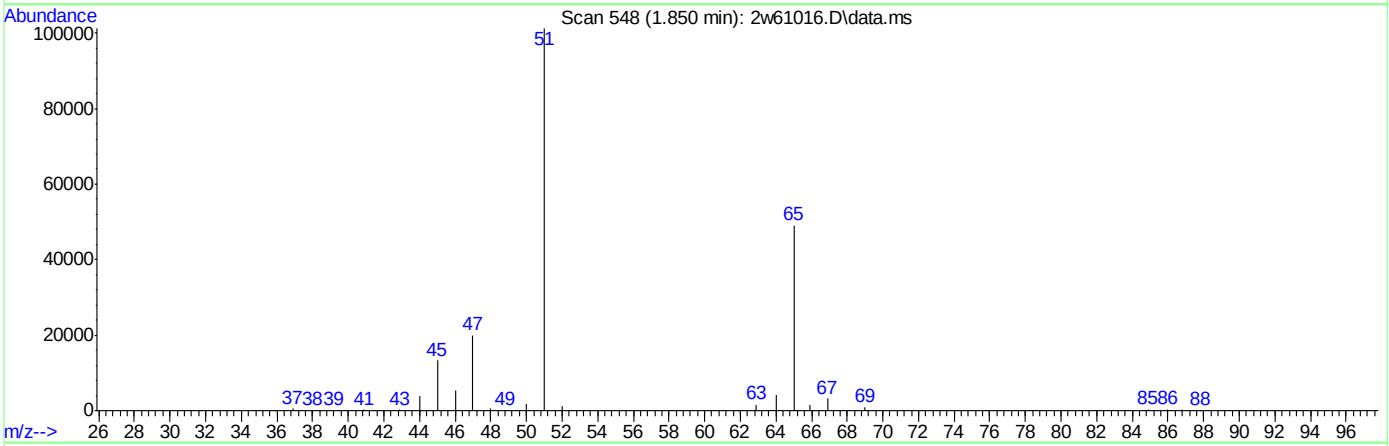
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.85 | Missed peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61016.D
Acq On : 19 Aug 2022 2:34 pm
Operator : thomash
Sample : icc2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 16:20:14 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61016.D\data.ms

(3) FREON 152A (T)

1.850min (-1.850) 0.00PPBV

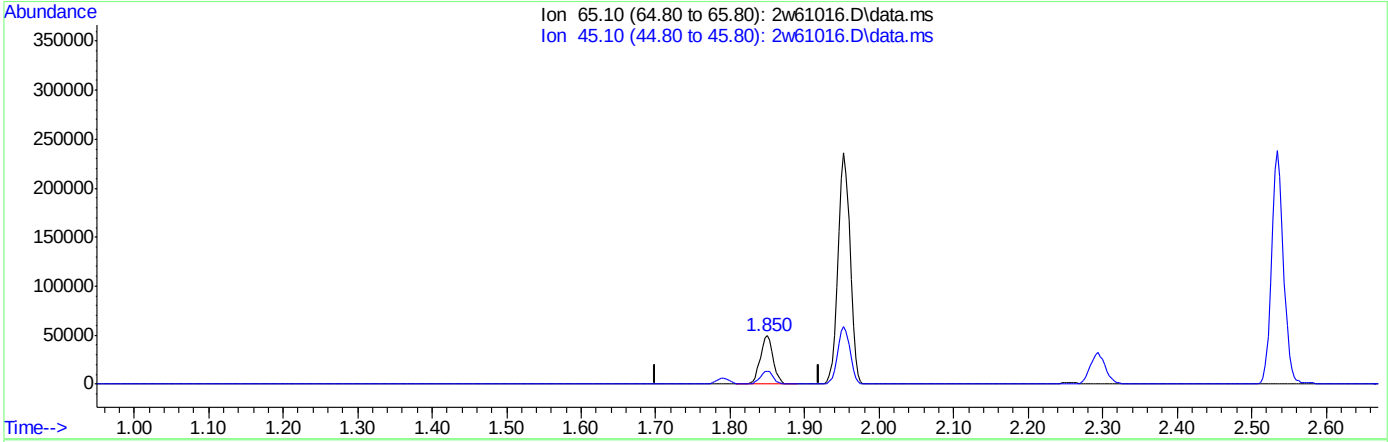
response 0

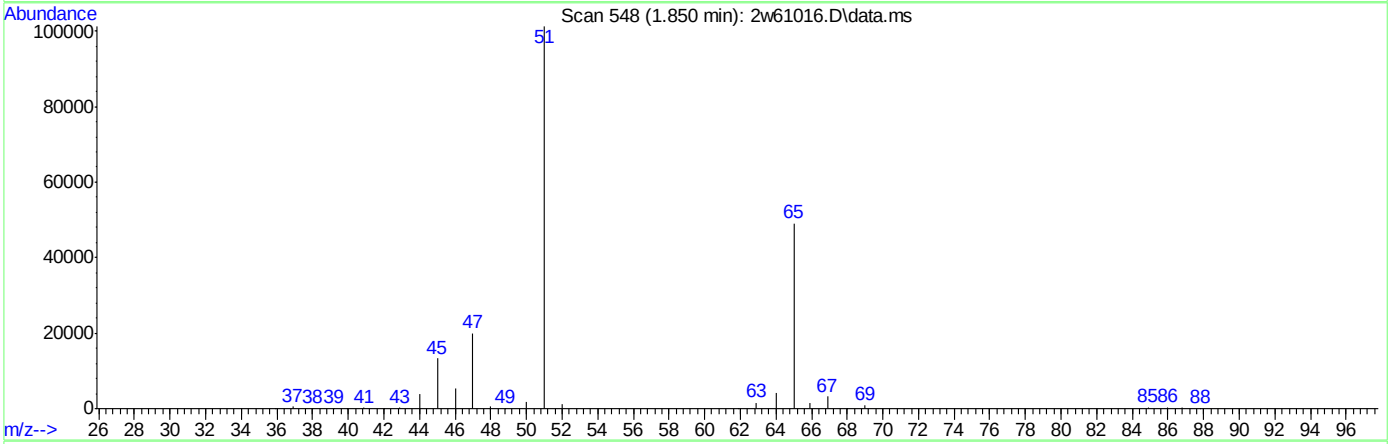
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 0.00 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61016.D
Acq On : 19 Aug 2022 2:34 pm
Operator : thomash
Sample : icc2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 16:20:14 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61016.D\data.ms

(3) FREON 152A (T)

1.850min (-0.000) 10.34PPBV m

response 59612

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61017.D
Acq On : 19 Aug 2022 3:08 pm
Operator : thomash
Sample : ic2709-20
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:50 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.609 | 128 | 72073 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 384279 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.589 | 117 | 358155 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.959 | 95 | 238630 | 10.08 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.850 | 65 | 119609 | 21.67 | PPBV | | 98 |
| 4) CHLORODIFLUOROMETHANE | 1.866 | 67 | 53785 | 22.19 | PPBV | | 98 |
| 5) CHLOROTRIFLUOROETHENE | 1.879 | 116 | 309146 | 21.92 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.901 | 85 | 710111 | 21.96 | PPBV | # | 72 |
| 7) PROPYLENE | 1.875 | 41 | 125554 | 19.65 | PPBV | | 100 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.953 | 65 | 533917 | 22.10 | PPBV | | 100 |
| 9) FREON 114 | 1.998 | 85 | 635679 | 21.96 | PPBV | | 100 |
| 10) CHLOROMETHANE | 1.959 | 52 | 67799 | 19.87 | PPBV | | 99 |
| 11) VINYL CHLORIDE | 2.039 | 62 | 245329 | 21.39 | PPBV | | 100 |
| 12) 1,3-BUTADIENE | 2.091 | 54 | 188819 | 21.37 | PPBV | | 99 |
| 13) N-BUTANE | 2.113 | 43 | 309535 | 19.29 | PPBV | | 99 |
| 14) BROMOMETHANE | 2.191 | 94 | 217948 | 20.88 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.255 | 64 | 133028 | 22.02 | PPBV | | 100 |
| 16) DICHLOROFLUOROMETHANE | 2.287 | 67 | 523147 | 21.63 | PPBV | | 99 |
| 17) ACETONITRILE | 2.374 | 41 | 186887 | 19.71 | PPBV | | 99 |
| 18) ACROLEIN | 2.419 | 56 | 111309 | 35.08 | PPBV | | 100 |
| 19) FREON 123 | 2.435 | 83 | 587837 | 22.27 | PPBV | | 99 |
| 20) FREON 123A | 2.454 | 117 | 339631 | 22.07 | PPBV | | 99 |
| 21) TRICHLOROFLUOROMETHANE | 2.519 | 101 | 749691 | 22.72 | PPBV | # | 1 |
| 22) ISOPROPYL ALCOHOL | 2.535 | 45 | 539479 | 19.05 | PPBV | | 99 |
| 23) ACETONE | 2.461 | 58 | 149689 | 15.18 | PPBV | | 99 |
| 24) PENTANE | 2.628 | 42 | 298332 | 19.42 | PPBV | | 100 |
| 25) IODOMETHANE | 2.686 | 142 | 720238 | 22.06 | PPBV | | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.711 | 96 | 281459 | 21.94 | PPBV | | 100 |
| 27) CARBON DISULFIDE | 2.843 | 76 | 866184 | 23.15 | PPBV | # | 82 |
| 28) ETHANOL | 2.293 | 45 | 92201 | 15.11 | PPBV | | 100 |
| 29) BROMOETHENE | 2.384 | 106 | 232310 | 22.53 | PPBV | # | 100 |
| 30) ACRYLONITRILE | 2.602 | 52 | 218286 | 21.27 | PPBV | | 99 |
| 31) METHYLENE CHLORIDE | 2.747 | 84 | 255502 | 15.64 | PPBV | | 99 |
| 32) 3-CHLOROPROPENE | 2.789 | 76 | 137721 | 20.20 | PPBV | | 99 |
| 33) FREON 113 | 2.843 | 151 | 482307 | 22.76 | PPBV | | 100 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 233895 | 21.81 | PPBV | | 100 |
| 35) TERTIARY BUTYL ALCOHOL | 2.721 | 59 | 721034 | 21.25 | PPBV | | 98 |
| 36) METHYL TERTIARY BUTYL ... | 3.187 | 73 | 606051 | 21.92 | PPBV | | 100 |
| 37) TETRAHYDROFURAN | 3.901 | 72 | 108695 | 24.06 | PPBV | | 99 |
| 38) HEXANE | 3.663 | 57 | 415582 | 22.90 | PPBV | | 100 |
| 39) VINYL ACETATE | 3.229 | 86 | 64034 | 25.97 | PPBV | | 99 |
| 40) 1,1-DICHLOROETHANE | 3.155 | 63 | 420818 | 21.97 | PPBV | | 100 |
| 41) METHYL ETHYL KETONE | 3.326 | 72 | 111776 | 24.57 | PPBV | | 98 |
| 42) CIS-1,2-DICHLOROETHENE | 3.531 | 96 | 252348 | 21.70 | PPBV | | 100 |
| 43) DIISOPROPYL ETHER | 3.666 | 59 | 123383 | 23.44 | PPBV | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61017.D
Acq On : 19 Aug 2022 3:08 pm
Operator : thomash
Sample : ic2709-20
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:50 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.670 | 61 | 86776 | 13.76 | PPBV | | 99 |
| 45) METHYL ACRYLATE | 3.657 | 55 | 510404 | 24.79 | PPBV | # | 100 |
| 46) CHLOROFORM | 3.686 | 83 | 513909 | 22.13 | PPBV | | 99 |
| 47) 2,4-DIMETHYLPENTANE | 4.194 | 57 | 470856 | 21.45 | PPBV | | 99 |
| 48) 1,1,1-TRICHLOROETHANE | 4.277 | 97 | 527043 | 22.94 | PPBV | | 100 |
| 49) CARBON TETRACHLORIDE | 4.711 | 117 | 542697 | 24.68 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 4.107 | 62 | 348365 | 21.95 | PPBV | # | 100 |
| 51) BENZENE | 4.596 | 78 | 725030 | 21.38 | PPBV | | 100 |
| 53) CYCLOHEXANE | 4.811 | 84 | 317297 | 21.70 | PPBV | | 99 |
| 54) 2,3-DIMETHYLPENTANE | 5.072 | 71 | 158286 | 22.42 | PPBV | | 99 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 339829 | 23.18 | PPBV | | 99 |
| 56) 1,2-DICHLOROPROPANE | 5.281 | 63 | 287533 | 21.88 | PPBV | | 99 |
| 57) DIBROMOMETHANE | 5.239 | 174 | 322093 | 21.10 | PPBV | | 99 |
| 58) ETHYL ACRYLATE | 5.396 | 55 | 594434 | 26.49 | PPBV | | 100 |
| 59) BROMODICHLOROMETHANE | 5.464 | 83 | 560295 | 24.43 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 1253824 | 21.49 | PPBV | | 100 |
| 61) 1,4-DIOXANE | 5.522 | 88 | 158700 | 23.36 | PPBV | | 100 |
| 62) HEPTANE | 5.936 | 43 | 393688 | 21.58 | PPBV | | 100 |
| 63) METHYL METHACRYLATE | 5.827 | 69 | 268959 | 25.91 | PPBV | | 98 |
| 64) METHYL ISOBUTYL KETONE | 6.570 | 58 | 230494 | 27.53 | PPBV | | 99 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.473 | 75 | 415505 | 25.82 | PPBV | | 99 |
| 66) TOLUENE | 7.702 | 91 | 918264 | 22.25 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.760 | 76 | 441470 | 22.77 | PPBV | | 100 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.158 | 75 | 385600 | 27.47 | PPBV | | 100 |
| 69) 1,1,2-TRICHLOROETHANE | 7.322 | 83 | 269908 | 22.48 | PPBV | | 100 |
| 70) 2-HEXANONE | 8.264 | 58 | 286596 | 46.93 | PPBV | # | 1 |
| 71) ETHYL METHACRYLATE | 8.403 | 69 | 428085 | 30.73 | PPBV | | 99 |
| 72) TETRACHLOROETHENE | 9.451 | 164 | 360632 | 21.23 | PPBV | | 99 |
| 73) DIBROMOCHLOROMETHANE | 8.242 | 129 | 589014 | 27.69 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.592 | 107 | 512775 | 24.13 | PPBV | | 99 |
| 75) OCTANE | 9.589 | 43 | 544929 | 22.63 | PPBV | | 100 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.679 | 131 | 406522 | 24.98 | PPBV | | 100 |
| 78) CHLOROBENZENE | 10.669 | 112 | 759439 | 22.31 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.550 | 91 | 1229285 | 22.97 | PPBV | | 100 |
| 80) M,P-XYLENE | 11.984 | 91 | 1875142 | 57.69 | PPBV | | 97 |
| 81) O-XYLENE | 12.927 | 91 | 960134 | 23.25 | PPBV | | 98 |
| 82) STYRENE | 12.708 | 104 | 729709 | 25.85 | PPBV | | 99 |
| 83) NONANE | 14.036 | 43 | 572888 | 22.13 | PPBV | | 99 |
| 84) BROMOFORM | 11.798 | 173 | 560231 | 32.59 | PPBV | | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.933 | 83 | 706794 | 22.85 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.216 | 75 | 509259 | 22.12 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.441 | 120 | 405394 | 23.03 | PPBV | | 100 |
| 89) BROMOBENZENE | 14.312 | 77 | 655507 | 22.69 | PPBV | | 99 |
| 90) 2-CHLOROTOLUENE | 15.447 | 126 | 343056 | 24.83 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.785 | 120 | 385371 | 24.43 | PPBV | | 100 |
| 92) 4-ETHYLTOLUENE | 16.148 | 105 | 1435811 | 25.24 | PPBV | | 100 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.306 | 105 | 1192682 | 25.09 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.505 | 118 | 527450 | 27.71 | PPBV | | 100 |
| 95) TERT-BUTYLBENZENE | 16.766 | 134 | 303824 | 25.44 | PPBV | | 97 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.772 | 105 | 1293755 | 26.51 | PPBV | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61017.D
Acq On : 19 Aug 2022 3:08 pm
Operator : thomash
Sample : ic2709-20
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:50 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:08 2022
Response via : Initial Calibration

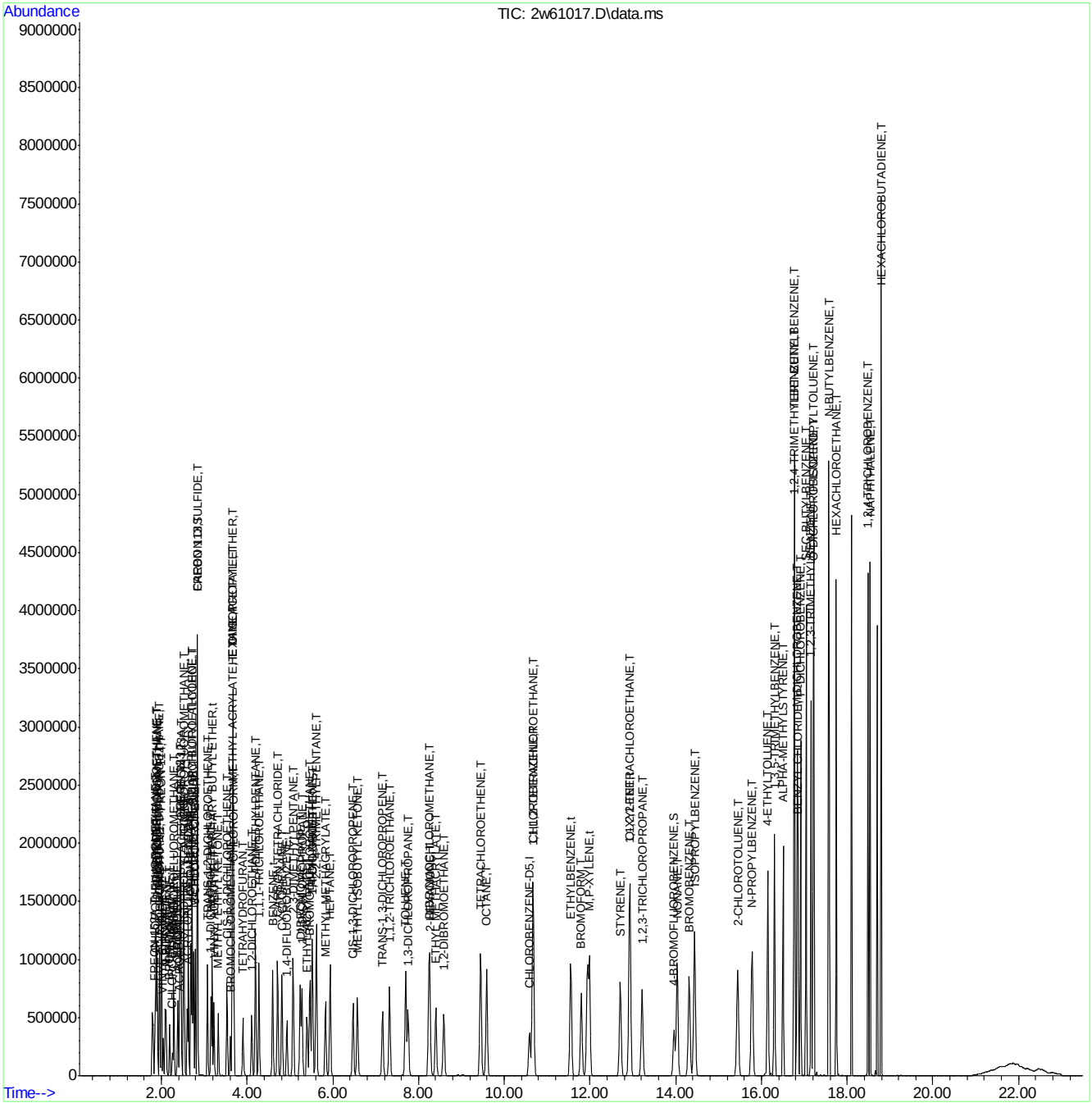
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.852 | 91 | 905981 | 39.94 | PPBV | | 100 |
| 98) | M-DICHLOROBENZENE | 16.830 | 146 | 829871 | 24.83 | PPBV | | 99 |
| 99) | P-DICHLOROBENZENE | 16.913 | 146 | 840356 | 24.71 | PPBV | | 100 |
| 100) | O-DICHLOROBENZENE | 17.209 | 146 | 806160 | 24.67 | PPBV | | 99 |
| 101) | SEC-BUTYLBENZENE | 17.042 | 134 | 371849 | 24.70 | PPBV | | 98 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.155 | 105 | 1213480 | 25.58 | PPBV | | 100 |
| 103) | P-ISOPROPYLTOLUENE | 17.222 | 134 | 415269 | 25.65 | PPBV | | 97 |
| 104) | N-BUTYLBENZENE | 17.569 | 134 | 392160 | 26.91 | PPBV | | 98 |
| 105) | HEXACHLOROETHANE | 17.746 | 117 | 507678 | 34.05 | PPBV | | 100 |
| 106) | HEXACHLOROBUTADIENE | 18.794 | 225 | 605947 | 25.92 | PPBV | # | 1 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.486 | 180 | 701617 | 28.80 | PPBV | | 99 |
| 108) | NAPHTHALENE | 18.534 | 128 | 1757343 | 31.33 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61017.D
Acq On : 19 Aug 2022 3:08 pm
Operator : thomash
Sample : ic2709-20
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:50 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:08 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61018.D
Acq On : 19 Aug 2022 3:45 pm
Operator : thomash
Sample : ic2709-40
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:50 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.615 | 128 | 75390 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.933 | 114 | 391613 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.592 | 117 | 360276 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.965 | 95 | 245334 | 10.32 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.850 | 65 | 243126 | 38.17 | PPBV | | 99 |
| 4) CHLORODIFLUOROMETHANE | 1.866 | 67 | 109188 | 39.04 | PPBV | | 100 |
| 5) CHLOROTRIFLUOROETHENE | 1.882 | 116 | 627638 | 38.52 | PPBV | | 96 |
| 6) DICHLORODIFLUOROMETHANE | 1.901 | 85 | 1479485 | 39.57 | PPBV | # | 73 |
| 7) PROPYLENE | 1.879 | 41 | 251353 | 34.44 | PPBV | | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.953 | 65 | 1121396 | 40.14 | PPBV | | 99 |
| 9) FREON 114 | 1.998 | 85 | 1334611 | 39.88 | PPBV | | 100 |
| 10) CHLOROMETHANE | 1.959 | 52 | 136086 | 34.83 | PPBV | | 96 |
| 11) VINYL CHLORIDE | 2.043 | 62 | 495818 | 37.56 | PPBV | | 99 |
| 12) 1,3-BUTADIENE | 2.091 | 54 | 386427 | 38.02 | PPBV | | 98 |
| 13) N-BUTANE | 2.113 | 43 | 635409 | 34.69 | PPBV | | 98 |
| 14) BROMOMETHANE | 2.191 | 94 | 445982 | 37.16 | PPBV | | 100 |
| 15) CHLOROETHANE | 2.255 | 64 | 273621 | 39.23 | PPBV | | 97 |
| 16) DICHLOROFLUOROMETHANE | 2.287 | 67 | 1080427 | 38.75 | PPBV | | 99 |
| 17) ACETONITRILE | 2.374 | 41 | 377221 | 34.81 | PPBV | | 99 |
| 18) ACROLEIN | 2.422 | 56 | 224446 | 57.96 | PPBV | | 99 |
| 19) FREON 123 | 2.438 | 83 | 1232627 | 40.34 | PPBV | | 99 |
| 20) FREON 123A | 2.457 | 117 | 705506 | 39.64 | PPBV | | 100 |
| 21) TRICHLOROFLUOROMETHANE | 2.522 | 101 | 1556028 | 40.65 | PPBV | # | 1 |
| 22) ISOPROPYL ALCOHOL | 2.538 | 45 | 1119289 | 34.68 | PPBV | | 98 |
| 23) ACETONE | 2.464 | 58 | 308439 | 27.92 | PPBV | | 99 |
| 24) PENTANE | 2.631 | 42 | 617378 | 35.22 | PPBV | | 99 |
| 25) IODOMETHANE | 2.689 | 142 | 1493248 | 39.55 | PPBV | | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.715 | 96 | 580473 | 39.19 | PPBV | | 100 |
| 27) CARBON DISULFIDE | 2.846 | 76 | 1878046 | 43.18 | PPBV | # | 83 |
| 28) ETHANOL | 2.293 | 45 | 191387 | 28.01 | PPBV | | 99 |
| 29) BROMOETHENE | 2.383 | 106 | 479632 | 40.19 | PPBV | # | 100 |
| 30) ACRYLONITRILE | 2.605 | 52 | 443598 | 37.65 | PPBV | | 99 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 522774 | 28.54 | PPBV | | 98 |
| 32) 3-CHLOROPROPENE | 2.792 | 76 | 285712 | 36.57 | PPBV | | 98 |
| 33) FREON 113 | 2.846 | 151 | 1022349 | 41.55 | PPBV | | 99 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 487483 | 39.39 | PPBV | | 99 |
| 35) TERTIARY BUTYL ALCOHOL | 2.724 | 59 | 1519448 | 38.88 | PPBV | | 97 |
| 36) METHYL TERTIARY BUTYL ... | 3.191 | 73 | 1266667 | 39.60 | PPBV | | 99 |
| 37) TETRAHYDROFURAN | 3.901 | 72 | 221246 | 42.07 | PPBV | | 97 |
| 38) HEXANE | 3.666 | 57 | 899527 | 42.66 | PPBV | | 98 |
| 39) VINYL ACETATE | 3.232 | 86 | 133347 | 45.84 | PPBV | | 95 |
| 40) 1,1-DICHLOROETHANE | 3.158 | 63 | 870922 | 39.34 | PPBV | | 100 |
| 41) METHYL ETHYL KETONE | 3.332 | 72 | 227283 | 42.69 | PPBV | | 98 |
| 42) CIS-1,2-DICHLOROETHENE | 3.535 | 96 | 508335 | 37.86 | PPBV | | 98 |
| 43) DIISOPROPYL ETHER | 3.673 | 59 | 266606 | 43.42 | PPBV | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61018.D
Acq On : 19 Aug 2022 3:45 pm
Operator : thomash
Sample : ic2709-40
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:50 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.676 | 61 | 188065 | 26.72 | PPBV | | 97 |
| 45) METHYL ACRYLATE | 3.663 | 55 | 1105429 | 45.81 | PPBV | # | 100 |
| 46) CHLOROFORM | 3.692 | 83 | 1082305 | 40.27 | PPBV | | 100 |
| 47) 2,4-DIMETHYLPENTANE | 4.200 | 57 | 977707 | 38.62 | PPBV | | 99 |
| 48) 1,1,1-TRICHLOROETHANE | 4.280 | 97 | 1088934 | 40.76 | PPBV | | 100 |
| 49) CARBON TETRACHLORIDE | 4.715 | 117 | 1142602 | 44.30 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 4.110 | 62 | 715755 | 39.04 | PPBV | # | 100 |
| 51) BENZENE | 4.599 | 78 | 1483442 | 37.93 | PPBV | | 100 |
| 53) CYCLOHEXANE | 4.814 | 84 | 643536 | 39.15 | PPBV | | 99 |
| 54) 2,3-DIMETHYLPENTANE | 5.078 | 71 | 324995 | 40.80 | PPBV | | 99 |
| 55) TRICHLOROETHENE | 5.525 | 95 | 699614 | 42.11 | PPBV | | 100 |
| 56) 1,2-DICHLOROPROPANE | 5.287 | 63 | 590498 | 39.88 | PPBV | | 100 |
| 57) DIBROMOMETHANE | 5.242 | 174 | 662597 | 38.64 | PPBV | | 99 |
| 58) ETHYL ACRYLATE | 5.403 | 55 | 1255805 | 48.62 | PPBV | | 100 |
| 59) BROMODICHLOROMETHANE | 5.470 | 83 | 1173368 | 44.86 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.618 | 57 | 2607491 | 39.76 | PPBV | | 100 |
| 61) 1,4-DIOXANE | 5.528 | 88 | 329741 | 42.73 | PPBV | | 98 |
| 62) HEPTANE | 5.943 | 43 | 829090 | 40.40 | PPBV | | 98 |
| 63) METHYL METHACRYLATE | 5.830 | 69 | 556396 | 46.76 | PPBV | | 96 |
| 64) METHYL ISOBUTYL KETONE | 6.576 | 58 | 480170 | 49.71 | PPBV | | 97 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.477 | 75 | 876146 | 47.38 | PPBV | | 98 |
| 66) TOLUENE | 7.705 | 91 | 1887113 | 40.52 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.763 | 76 | 911052 | 41.59 | PPBV | | 99 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.165 | 75 | 823795 | 50.64 | PPBV | | 98 |
| 69) 1,1,2-TRICHLOROETHANE | 7.329 | 83 | 557236 | 41.06 | PPBV | | 99 |
| 70) 2-HEXANONE | 8.271 | 58 | 601548 | 78.64 | PPBV | # | 1 |
| 71) ETHYL METHACRYLATE | 8.409 | 69 | 889580 | 54.47 | PPBV | | 98 |
| 72) TETRACHLOROETHENE | 9.451 | 164 | 738323 | 38.73 | PPBV | | 97 |
| 73) DIBROMOCHLOROMETHANE | 8.245 | 129 | 1239625 | 50.25 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.599 | 107 | 1054110 | 43.59 | PPBV | | 99 |
| 75) OCTANE | 9.599 | 43 | 1141955 | 41.95 | PPBV | | 99 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.685 | 131 | 855771 | 46.52 | PPBV | | 99 |
| 78) CHLOROBENZENE | 10.673 | 112 | 1582955 | 41.73 | PPBV | | 100 |
| 79) ETHYLBENZENE | 11.557 | 91 | 2541811 | 42.50 | PPBV | | 100 |
| 80) M,P-XYLENE | 11.994 | 91 | 3883185 | 104.34 | PPBV | | 98 |
| 81) O-XYLENE | 12.933 | 91 | 2007144 | 43.45 | PPBV | | 97 |
| 82) STYRENE | 12.714 | 104 | 1514814 | 47.47 | PPBV | | 99 |
| 83) NONANE | 14.042 | 43 | 1218804 | 42.33 | PPBV | | 97 |
| 84) BROMOFORM | 11.808 | 173 | 1194818 | 59.29 | PPBV | | 100 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.943 | 83 | 1484129 | 42.96 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.225 | 75 | 1060322 | 41.43 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.451 | 120 | 838695 | 42.65 | PPBV | | 98 |
| 89) BROMOBENZENE | 14.322 | 77 | 1365994 | 42.38 | PPBV | | 98 |
| 90) 2-CHLOROTOLUENE | 15.454 | 126 | 705214 | 45.27 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.788 | 120 | 795411 | 44.86 | PPBV | | 99 |
| 92) 4-ETHYLTOLUENE | 16.155 | 105 | 3031201 | 47.13 | PPBV | | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.309 | 105 | 2528639 | 47.03 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.508 | 118 | 1119624 | 51.43 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.769 | 134 | 667647 | 49.35 | PPBV | | 96 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.778 | 105 | 2882549 | 51.70 | PPBV | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61018.D
Acq On : 19 Aug 2022 3:45 pm
Operator : thomash
Sample : ic2709-40
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:50 2022
Response via : Initial Calibration

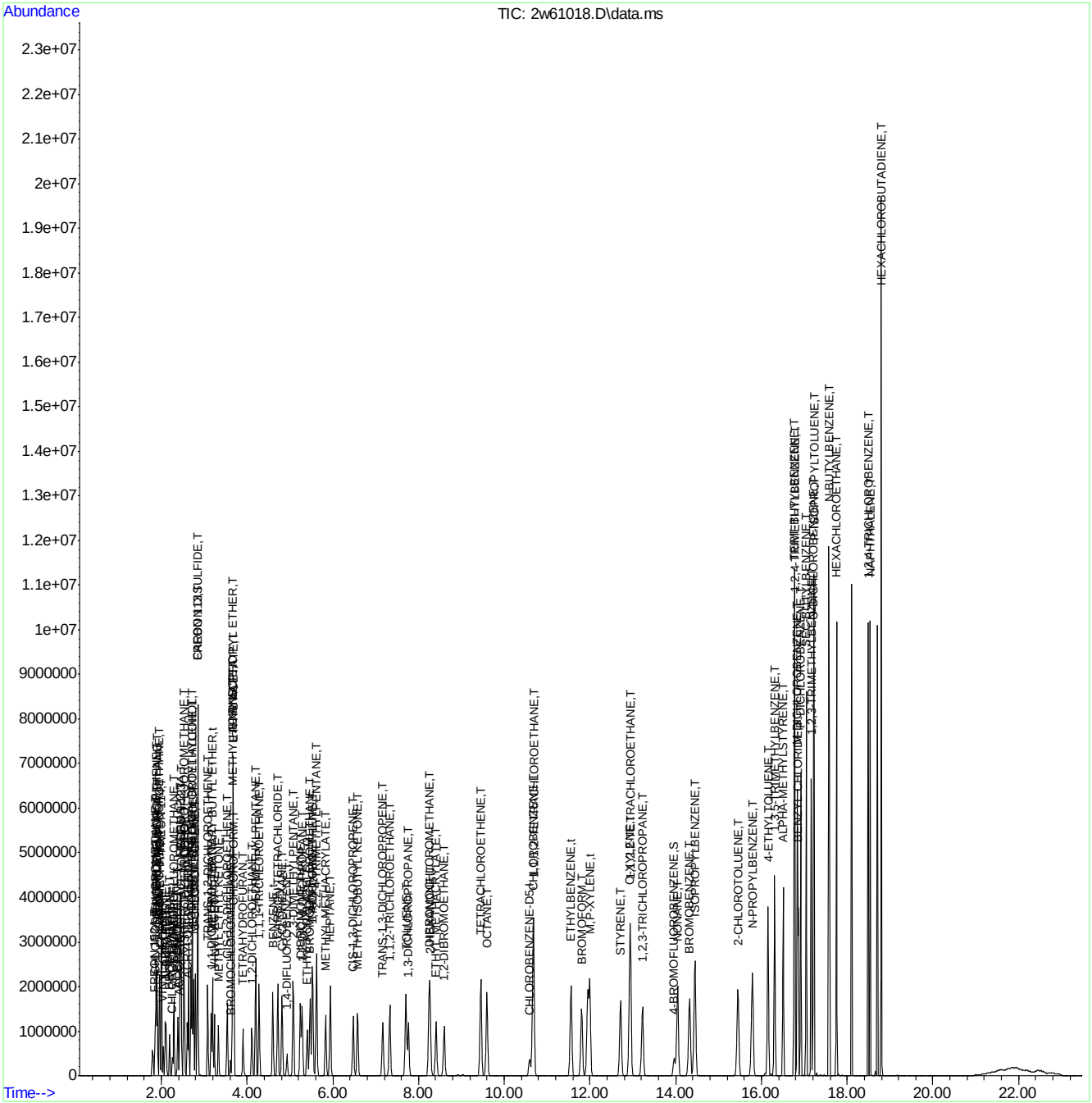
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.859 | 91 | 2078990 | 74.66 | PPBV | | 99 |
| 98) | M-DICHLOROBENZENE | 16.836 | 146 | 1772351 | 46.91 | PPBV | | 99 |
| 99) | P-DICHLOROBENZENE | 16.917 | 146 | 1801589 | 46.89 | PPBV | | 100 |
| 100) | O-DICHLOROBENZENE | 17.212 | 146 | 1779127 | 48.14 | PPBV | | 98 |
| 101) | SEC-BUTYLBENZENE | 17.045 | 134 | 808180 | 47.53 | PPBV | | 98 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.161 | 105 | 2606792 | 48.43 | PPBV | | 100 |
| 103) | P-ISOPROPYLTOLUENE | 17.225 | 134 | 931126 | 50.64 | PPBV | | 95 |
| 104) | N-BUTYLBENZENE | 17.573 | 134 | 886723 | 53.25 | PPBV | | 99 |
| 105) | HEXACHLOROETHANE | 17.749 | 117 | 1187726 | 67.07 | PPBV | | 99 |
| 106) | HEXACHLOROBUTADIENE | 18.801 | 225 | 1615377 | 60.47 | PPBV | # | 1 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.492 | 180 | 1688831 | 59.89 | PPBV | | 99 |
| 108) | NAPHTHALENE | 18.540 | 128 | 4191967 | 63.79 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61018.D
Acq On : 19 Aug 2022 3:45 pm
Operator : thomash
Sample : ic2709-40
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:50 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/24/22 15:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61019.D
Acq On : 19 Aug 2022 4:25 pm
Operator : thomash
Sample : ic2709-50
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 19:37:53 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.612 | 128 | 77394 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 400362 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.592 | 117 | 371357 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.965 | 95 | 257117 | 10.44 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.847 | 65 | 315555m | 48.63 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.863 | 67 | 143977 | 50.35 | PPBV | | 100 |
| 5) CHLOROTRIFLUOROETHENE | 1.879 | 116 | 809484 | 48.69 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.901 | 85 | 1895074 | 49.46 | PPBV | # | 73 |
| 7) PROPYLENE | 1.876 | 41 | 334863 | 45.75 | PPBV | | 100 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.950 | 65 | 1477691 | 51.50 | PPBV | | 99 |
| 9) FREON 114 | 1.998 | 85 | 1751141 | 51.00 | PPBV | | 100 |
| 10) CHLOROMETHANE | 1.956 | 52 | 174894 | 44.57 | PPBV | | 95 |
| 11) VINYL CHLORIDE | 2.040 | 62 | 644264 | 48.03 | PPBV | | 100 |
| 12) 1,3-BUTADIENE | 2.091 | 54 | 498868 | 48.21 | PPBV | | 97 |
| 13) N-BUTANE | 2.110 | 43 | 827226 | 44.99 | PPBV | | 98 |
| 14) BROMOMETHANE | 2.187 | 94 | 580384 | 47.68 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.252 | 64 | 348977 | 48.90 | PPBV | | 100 |
| 16) DICHLOROFLUOROMETHANE | 2.284 | 67 | 1407828 | 49.44 | PPBV | | 99 |
| 17) ACETONITRILE | 2.374 | 41 | 489019 | 44.93 | PPBV | | 100 |
| 18) ACROLEIN | 2.419 | 56 | 293260 | 68.63 | PPBV | | 98 |
| 19) FREON 123 | 2.435 | 83 | 1628741 | 51.85 | PPBV | | 98 |
| 20) FREON 123A | 2.454 | 117 | 928262 | 50.88 | PPBV | | 100 |
| 21) TRICHLOROFLUOROMETHANE | 2.522 | 101 | 2030125 | 51.52 | PPBV | # | 1 |
| 22) ISOPROPYL ALCOHOL | 2.535 | 45 | 1478260 | 45.63 | PPBV | | 97 |
| 23) ACETONE | 2.461 | 58 | 400082 | 37.15 | PPBV | | 97 |
| 24) PENTANE | 2.631 | 42 | 817306 | 46.35 | PPBV | | 98 |
| 25) IODOMETHANE | 2.689 | 142 | 1964647 | 50.79 | PPBV | | 99 |
| 26) 1,1-DICHLOROETHYLENE | 2.715 | 96 | 765307 | 50.50 | PPBV | | 99 |
| 27) CARBON DISULFIDE | 2.843 | 76 | 2507798 | 55.43 | PPBV | # | 83 |
| 28) ETHANOL | 2.290 | 45 | 246846 | 37.04 | PPBV | | 100 |
| 29) BROMOETHENE | 2.384 | 106 | 620196 | 50.58 | PPBV | # | 100 |
| 30) ACRYLONITRILE | 2.605 | 52 | 578727 | 48.33 | PPBV | | 99 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 678951 | 37.92 | PPBV | | 98 |
| 32) 3-CHLOROPROPENE | 2.789 | 76 | 376811 | 47.66 | PPBV | | 96 |
| 33) FREON 113 | 2.843 | 151 | 1361647 | 53.56 | PPBV | | 99 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 628136 | 49.57 | PPBV | | 98 |
| 35) TERTIARY BUTYL ALCOHOL | 2.724 | 59 | 2025223 | 50.71 | PPBV | | 96 |
| 36) METHYL TERTIARY BUTYL ... | 3.191 | 73 | 1679213 | 51.22 | PPBV | | 99 |
| 37) TETRAHYDROFURAN | 3.901 | 72 | 286227 | 52.56 | PPBV | | 94 |
| 38) HEXANE | 3.667 | 57 | 1194401 | 54.57 | PPBV | | 97 |
| 39) VINYL ACETATE | 3.232 | 86 | 173783 | 56.81 | PPBV | | 90 |
| 40) 1,1-DICHLOROETHANE | 3.158 | 63 | 1140199 | 50.31 | PPBV | | 100 |
| 41) METHYL ETHYL KETONE | 3.329 | 72 | 297332 | 53.80 | PPBV | | 95 |
| 42) CIS-1,2-DICHLOROETHENE | 3.535 | 96 | 666224 | 48.77 | PPBV | | 98 |
| 43) DIISOPROPYL ETHER | 3.670 | 59 | 355381 | 55.59 | PPBV | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61019.D
Acq On : 19 Aug 2022 4:25 pm
Operator : thomash
Sample : ic2709-50
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 19:37:53 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.676 | 61 | 250108 | 36.64 | PPBV | | 95 |
| 45) METHYL ACRYLATE | 3.663 | 55 | 1472760 | 58.04 | PPBV | # | 99 |
| 46) CHLOROFORM | 3.692 | 83 | 1421306 | 51.45 | PPBV | | 99 |
| 47) 2,4-DIMETHYLPENTANE | 4.197 | 57 | 1278310 | 49.47 | PPBV | | 99 |
| 48) 1,1,1-TRICHLOROETHANE | 4.281 | 97 | 1433988 | 52.12 | PPBV | | 100 |
| 49) CARBON TETRACHLORIDE | 4.715 | 117 | 1506885 | 55.91 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 4.110 | 62 | 949510 | 50.66 | PPBV | # | 100 |
| 51) BENZENE | 4.599 | 78 | 1925702 | 48.38 | PPBV | | 99 |
| 53) CYCLOHEXANE | 4.814 | 84 | 836214 | 49.94 | PPBV | | 98 |
| 54) 2,3-DIMETHYLPENTANE | 5.075 | 71 | 423444 | 51.83 | PPBV | | 98 |
| 55) TRICHLOROETHENE | 5.525 | 95 | 914266 | 53.36 | PPBV | | 100 |
| 56) 1,2-DICHLOROPROPANE | 5.284 | 63 | 767273 | 50.71 | PPBV | | 99 |
| 57) DIBROMOMETHANE | 5.242 | 174 | 858284 | 49.24 | PPBV | | 99 |
| 58) ETHYL ACRYLATE | 5.403 | 55 | 1655767 | 60.53 | PPBV | | 100 |
| 59) BROMODICHLOROMETHANE | 5.470 | 83 | 1526784 | 55.96 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.618 | 57 | 3414105 | 50.97 | PPBV | | 99 |
| 61) 1,4-DIOXANE | 5.528 | 88 | 430490 | 53.95 | PPBV | | 98 |
| 62) HEPTANE | 5.940 | 43 | 1099665 | 52.33 | PPBV | | 97 |
| 63) METHYL METHACRYLATE | 5.834 | 69 | 723275 | 57.83 | PPBV | | 94 |
| 64) METHYL ISOBUTYL KETONE | 6.580 | 58 | 631337 | 61.44 | PPBV | | 97 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.477 | 75 | 1143849 | 58.70 | PPBV | | 97 |
| 66) TOLUENE | 7.705 | 91 | 2458882 | 51.53 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.766 | 76 | 1184302 | 52.54 | PPBV | | 99 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.165 | 75 | 1076417 | 61.97 | PPBV | | 98 |
| 69) 1,1,2-TRICHLOROETHANE | 7.329 | 83 | 720019 | 51.66 | PPBV | | 99 |
| 70) 2-HEXANONE | 8.274 | 58 | 789128 | 86.92 | PPBV | # | 1 |
| 71) ETHYL METHACRYLATE | 8.412 | 69 | 1161842 | 65.63 | PPBV | | 97 |
| 72) TETRACHLOROETHENE | 9.454 | 164 | 957285 | 49.38 | PPBV | | 98 |
| 73) DIBROMOCHLOROMETHANE | 8.245 | 129 | 1619881 | 61.60 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.602 | 107 | 1368683 | 54.55 | PPBV | | 99 |
| 75) OCTANE | 9.596 | 43 | 1503562 | 53.59 | PPBV | | 98 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.689 | 131 | 1128393 | 57.94 | PPBV | | 99 |
| 78) CHLOROBENZENE | 10.679 | 112 | 2056681 | 52.22 | PPBV | | 100 |
| 79) ETHYLBENZENE | 11.560 | 91 | 3310069 | 53.14 | PPBV | | 99 |
| 80) M,P-XYLENE | 12.001 | 91 | 5065239 | 125.67 | PPBV | | 99 |
| 81) O-XYLENE | 12.936 | 91 | 2631482 | 54.49 | PPBV | | 97 |
| 82) STYRENE | 12.718 | 104 | 1982079 | 58.44 | PPBV | | 99 |
| 83) NONANE | 14.052 | 43 | 1613964 | 53.86 | PPBV | | 96 |
| 84) BROMOFORM | 11.804 | 173 | 1577799 | 70.31 | PPBV | | 100 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.946 | 83 | 1950224 | 54.10 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.232 | 75 | 1393109 | 52.50 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.451 | 120 | 1095013 | 53.43 | PPBV | | 98 |
| 89) BROMOBENZENE | 14.325 | 77 | 1794640 | 53.49 | PPBV | | 97 |
| 90) 2-CHLOROTOLUENE | 15.457 | 126 | 923908 | 56.31 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.795 | 120 | 1041804 | 55.87 | PPBV | | 100 |
| 92) 4-ETHYLTOLUENE | 16.155 | 105 | 3996171 | 58.54 | PPBV | | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.309 | 105 | 3336015 | 58.48 | PPBV | | 100 |
| 94) ALPHA-METHYLSTYRENE | 16.508 | 118 | 1476907 | 62.83 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.772 | 134 | 895122 | 61.78 | PPBV | | 96 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.779 | 105 | 3861297 | 64.07 | PPBV | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61019.D
Acq On : 19 Aug 2022 4:25 pm
Operator : thomash
Sample : ic2709-50
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 19:37:53 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:08 2022
Response via : Initial Calibration

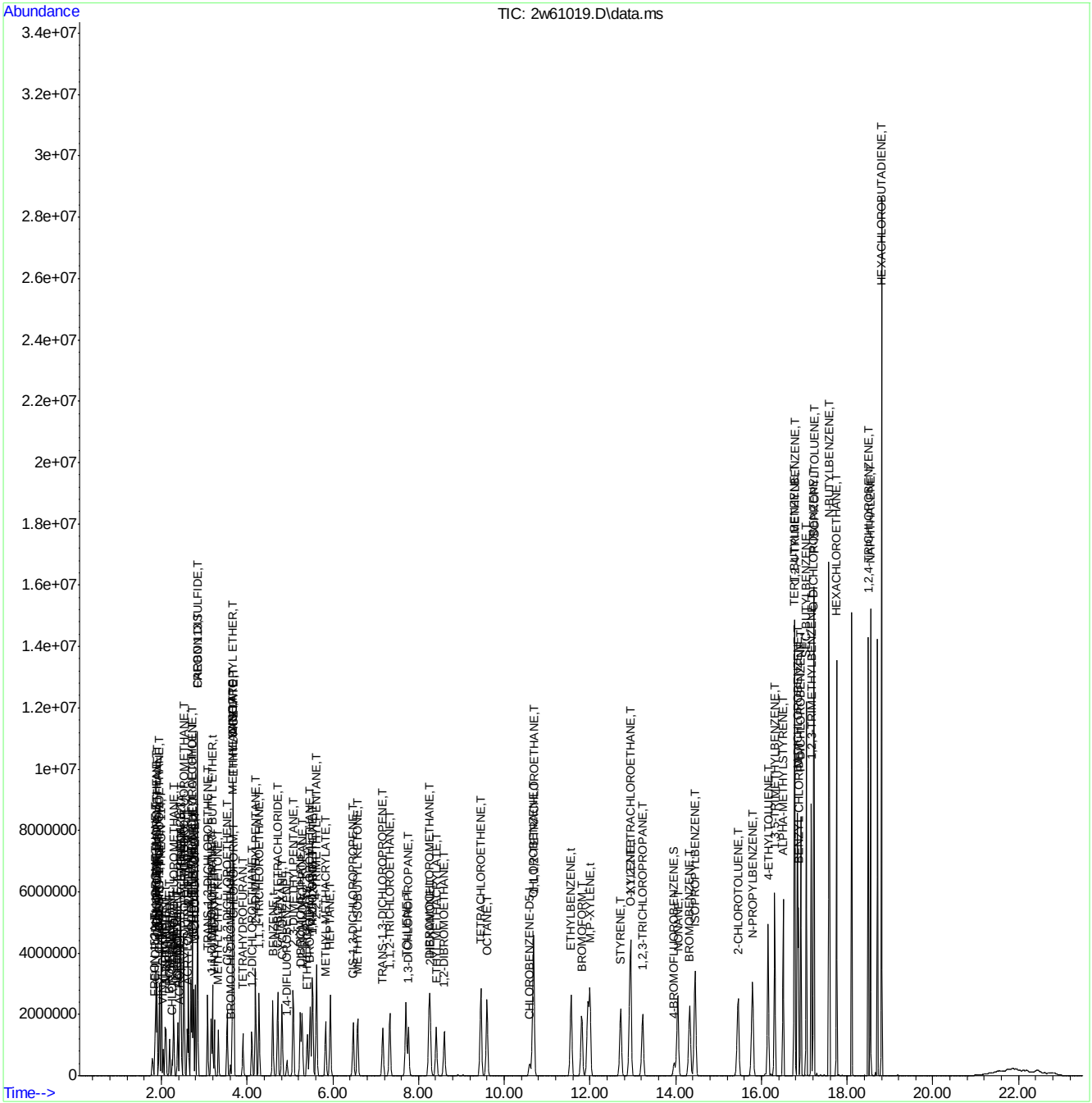
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.862 | 91 | 2793726 | 85.05 | PPBV | | 99 |
| 98) | M-DICHLOROBENZENE | 16.840 | 146 | 2345164 | 58.53 | PPBV | | 99 |
| 99) | P-DICHLOROBENZENE | 16.920 | 146 | 2374284 | 58.28 | PPBV | | 99 |
| 100) | O-DICHLOROBENZENE | 17.216 | 146 | 2419712 | 61.44 | PPBV | | 98 |
| 101) | SEC-BUTYLBENZENE | 17.049 | 134 | 1085639 | 60.06 | PPBV | | 99 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.161 | 105 | 3436170 | 59.83 | PPBV | | 100 |
| 103) | P-ISOPROPYLTOLUENE | 17.225 | 134 | 1280788 | 64.71 | PPBV | | 97 |
| 104) | N-BUTYLBENZENE | 17.576 | 134 | 1213660 | 67.01 | PPBV | | 100 |
| 105) | HEXACHLOROETHANE | 17.753 | 117 | 1612332 | 79.38 | PPBV | | 98 |
| 106) | HEXACHLOROBUTADIENE | 18.804 | 225 | 2411769 | 80.70 | PPBV | # | 1 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.495 | 180 | 2439677 | 77.51 | PPBV | | 99 |
| 108) | NAPHTHALENE | 18.544 | 128 | 6053114 | 81.30 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61019.D
Acq On : 19 Aug 2022 4:25 pm
Operator : thomash
Sample : ic2709-50
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 19:37:53 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:08 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



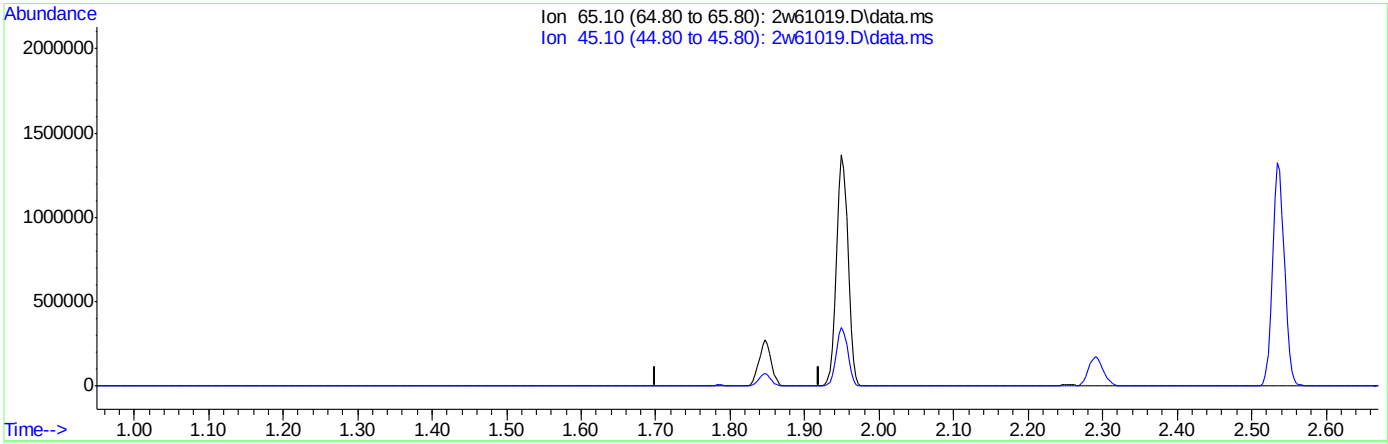
| | | | |
|---|---|---|---|
| **Sample Number:** | V2W2709-IC2709 | **Method:** | TO-15 |
| **Lab FileID:** | 2W61019.D | **Analyst approved:** | 08/23/22 17:35 Benjamin Kim |
| **Injection Time:** | 08/19/22 16:25 | **Supervisor approved:** | 08/24/22 15:08 Kanya Veerawat |

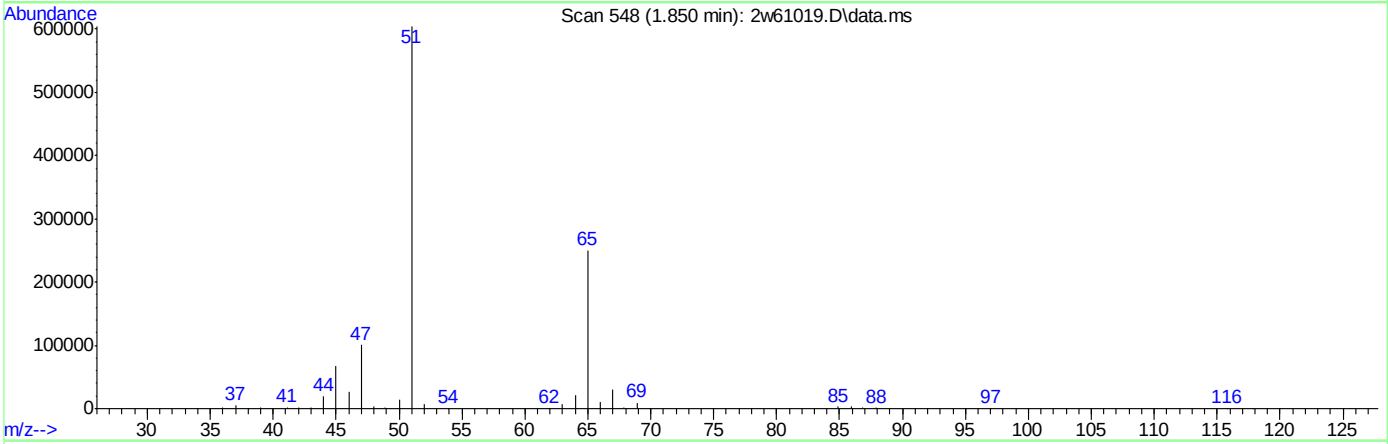
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.85 | Poor instrument integration |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61019.D
Acq On : 19 Aug 2022 4:25 pm
Operator : thomash
Sample : ic2709-50
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 22 22:02:21 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:08 2022
Response via : Initial Calibration




TIC: 2w61019.D\data.ms

(3) FREON 152A (T)

1.850min (-1.850) 0.00PPBV

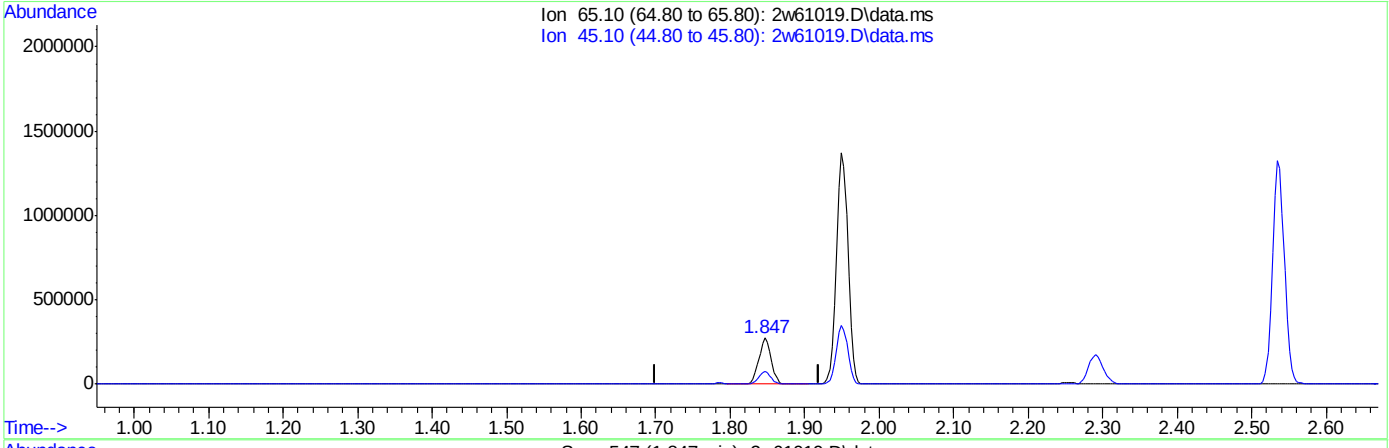
response 0

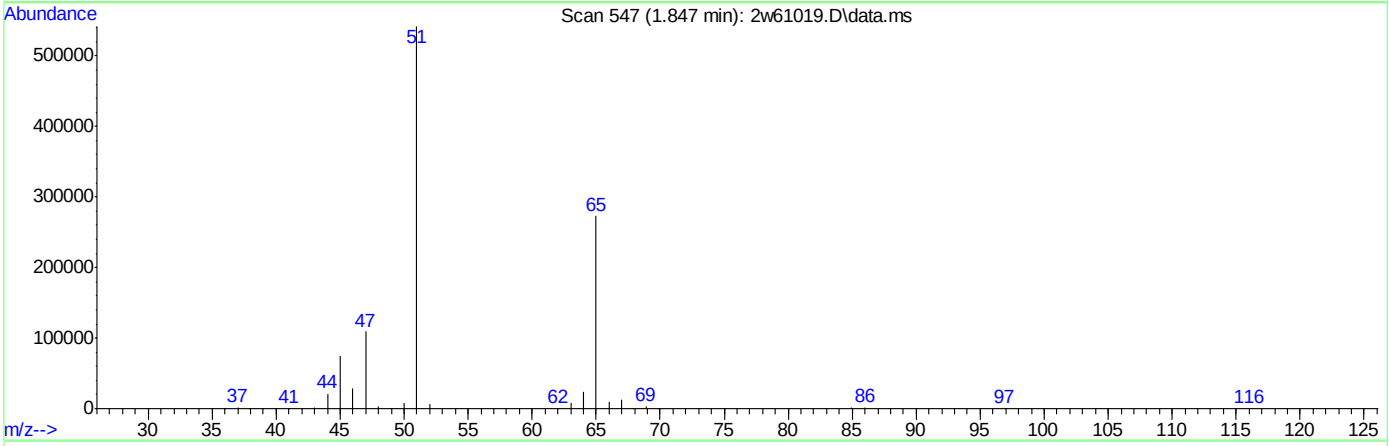
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 0.00 |
| 45.10 | 27.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61019.D
Acq On : 19 Aug 2022 4:25 pm
Operator : thomash
Sample : ic2709-50
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 22 22:02:21 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:08 2022
Response via : Initial Calibration




TIC: 2w61019.D\data.ms

(3) FREON 152A (T)

1.847min (-0.003) 48.63PPBV m

response 315555

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 27.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61022.D
Acq On : 19 Aug 2022 6:00 pm
Operator : thomash
Sample : icv2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 24 16:30:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.609 | 128 | 69572 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 377343 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 342378 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.959 | 95 | 233154 | 10.23 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 3) FREON 152A | 1.847 | 65 | 55825 | 9.55 | PPBV | # 100 |
| 4) CHLORODIFLUOROMETHANE | 1.863 | 67 | 24948 | 9.60 | PPBV | 100 |
| 5) CHLOROTRIFLUOROETHENE | 1.876 | 116 | 145033 | 9.65 | PPBV | # 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.898 | 85 | 329120 | 9.51 | PPBV | 100 |
| 7) PROPYLENE | 1.872 | 41 | 60462 | 9.25 | PPBV | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.950 | 65 | 248458 | 9.53 | PPBV | 99 |
| 9) FREON 114 | 1.995 | 85 | 294684 | 9.45 | PPBV | 100 |
| 10) CHLOROMETHANE | 1.956 | 52 | 31542 | 9.05 | PPBV | 98 |
| 11) VINYL CHLORIDE | 2.040 | 62 | 115708 | 9.56 | PPBV | 100 |
| 12) 1,3-BUTADIENE | 2.088 | 54 | 88588 | 9.47 | PPBV | 98 |
| 13) N-BUTANE | 2.110 | 43 | 146175 | 8.98 | PPBV | 99 |
| 14) BROMOMETHANE | 2.188 | 94 | 102293 | 9.35 | PPBV | 99 |
| 15) CHLOROETHANE | 2.252 | 64 | 64281 | 9.92 | PPBV | 97 |
| 16) DICHLOROFLUOROMETHANE | 2.284 | 67 | 242601 | 9.41 | PPBV | 99 |
| 17) ACETONITRILE | 2.371 | 41 | 86211 | 8.91 | PPBV | 100 |
| 18) ACROLEIN | 2.416 | 56 | 56710 | 13.27 | PPBV | 99 |
| 19) FREON 123 | 2.432 | 83 | 279397 | 9.76 | PPBV | 99 |
| 20) FREON 123A | 2.451 | 117 | 173270 | 10.46 | PPBV | 98 |
| 21) TRICHLOROFLUOROMETHANE | 2.519 | 101 | 348064 | 9.66 | PPBV | 100 |
| 22) ISOPROPYL ALCOHOL | 2.535 | 45 | 251479 | 8.75 | PPBV | 99 |
| 23) ACETONE | 2.461 | 58 | 67611 | 7.37 | PPBV | 94 |
| 24) PENTANE | 2.628 | 42 | 140273 | 8.90 | PPBV | 100 |
| 25) IODOMETHANE | 2.686 | 142 | 342167 | 9.72 | PPBV | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.712 | 96 | 130542 | 9.44 | PPBV | 99 |
| 27) CARBON DISULFIDE | 2.843 | 76 | 371034 | 8.91 | PPBV | 100 |
| 28) ETHANOL | 2.290 | 45 | 49644 | 8.77 | PPBV | 98 |
| 29) BROMOETHENE | 2.380 | 106 | 108066 | 9.67 | PPBV | 98 |
| 30) ACRYLONITRILE | 2.602 | 52 | 101333 | 9.33 | PPBV | 99 |
| 31) METHYLENE CHLORIDE | 2.747 | 84 | 120067 | 7.83 | PPBV | 98 |
| 32) 3-CHLOROPROPENE | 2.789 | 76 | 65373 | 9.22 | PPBV | 97 |
| 33) FREON 113 | 2.843 | 151 | 218499 | 9.38 | PPBV | 99 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 110007 | 9.56 | PPBV | 99 |
| 35) TERTIARY BUTYL ALCOHOL | 2.721 | 59 | 314697 | 8.69 | PPBV | 99 |
| 36) METHYL TERTIARY BUTYL ... | 3.191 | 73 | 289972 | 9.72 | PPBV | 100 |
| 37) TETRAHYDROFURAN | 3.901 | 72 | 52189 | 10.38 | PPBV | 97 |
| 38) HEXANE | 3.663 | 57 | 198041 | 9.85 | PPBV | 99 |
| 39) VINYL ACETATE | 3.229 | 86 | 30669 | 10.82 | PPBV | 97 |
| 40) 1,1-DICHLOROETHANE | 3.155 | 63 | 202699 | 9.84 | PPBV | 100 |
| 41) METHYL ETHYL KETONE | 3.329 | 72 | 54942 | 10.72 | PPBV | 100 |
| 42) CIS-1,2-DICHLOROETHENE | 3.532 | 96 | 119711 | 9.69 | PPBV | 99 |
| 43) DIISOPROPYL ETHER | 3.670 | 59 | 58059 | 9.86 | PPBV | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61022.D
Acq On : 19 Aug 2022 6:00 pm
Operator : thomash
Sample : icv2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 24 16:30:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.670 | 61 | 41362 | 10.04 | PPBV | | 100 |
| 45) METHYL ACRYLATE | 3.660 | 55 | 239048 | 10.11 | PPBV | # | 99 |
| 46) CHLOROFORM | 3.686 | 83 | 239751 | 9.52 | PPBV | | 99 |
| 47) 2,4-DIMETHYLPENTANE | 4.194 | 57 | 225355 | 9.62 | PPBV | | 100 |
| 48) 1,1,1-TRICHLOROETHANE | 4.277 | 97 | 248435 | 9.89 | PPBV | | 100 |
| 49) CARBON TETRACHLORIDE | 4.712 | 117 | 254708 | 10.24 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 4.107 | 62 | 169333 | 9.93 | PPBV | | 100 |
| 51) BENZENE | 4.596 | 78 | 350247 | 9.74 | PPBV | | 100 |
| 53) CYCLOHEXANE | 4.811 | 84 | 154819 | 9.72 | PPBV | | 99 |
| 54) 2,3-DIMETHYLPENTANE | 5.075 | 71 | 77693 | 9.93 | PPBV | | 99 |
| 55) TRICHLOROETHENE | 5.519 | 95 | 163073 | 10.20 | PPBV | | 98 |
| 56) 1,2-DICHLOROPROPANE | 5.277 | 63 | 137709 | 9.56 | PPBV | | 100 |
| 57) DIBROMOMETHANE | 5.239 | 174 | 153992 | 9.36 | PPBV | | 99 |
| 58) ETHYL ACRYLATE | 5.396 | 55 | 290302 | 10.72 | PPBV | | 100 |
| 59) BROMODICHLOROMETHANE | 5.461 | 83 | 263033 | 9.96 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 608009 | 9.54 | PPBV | | 100 |
| 61) 1,4-DIOXANE | 5.528 | 88 | 84294 | 10.91 | PPBV | | 99 |
| 62) HEPTANE | 5.937 | 43 | 190987 | 9.52 | PPBV | | 99 |
| 63) METHYL METHACRYLATE | 5.827 | 69 | 131443 | 10.69 | PPBV | | 98 |
| 64) METHYL ISOBUTYL KETONE | 6.570 | 58 | 121016 | 11.79 | PPBV | | 99 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.474 | 75 | 211846 | 11.10 | PPBV | | 100 |
| 66) TOLUENE | 7.695 | 91 | 444052 | 9.76 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.756 | 76 | 212110 | 9.81 | PPBV | | 99 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.158 | 75 | 182630 | 10.67 | PPBV | | 99 |
| 69) 1,1,2-TRICHLOROETHANE | 7.322 | 83 | 128497 | 9.64 | PPBV | | 100 |
| 70) 2-HEXANONE | 8.261 | 58 | 158976 | 11.06 | PPBV | | 99 |
| 71) ETHYL METHACRYLATE | 8.399 | 69 | 216624 | 12.09 | PPBV | | 100 |
| 72) TETRACHLOROETHENE | 9.448 | 164 | 175071 | 9.61 | PPBV | | 99 |
| 73) DIBROMOCHLOROMETHANE | 8.239 | 129 | 273728 | 10.55 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.586 | 107 | 249451 | 10.28 | PPBV | | 99 |
| 75) OCTANE | 9.589 | 43 | 262207 | 9.72 | PPBV | | 100 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.673 | 131 | 191213 | 10.31 | PPBV | | 100 |
| 78) CHLOROBENZENE | 10.660 | 112 | 366678 | 9.96 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.547 | 91 | 589389 | 10.05 | PPBV | | 100 |
| 80) M,P-XYLENE | 11.985 | 91 | 909127 | 20.38 | PPBV | | 98 |
| 81) O-XYLENE | 12.920 | 91 | 466547 | 10.23 | PPBV | | 97 |
| 82) STYRENE | 12.705 | 104 | 364348 | 11.16 | PPBV | | 100 |
| 83) NONANE | 14.029 | 43 | 277833 | 9.87 | PPBV | | 100 |
| 84) BROMOFORM | 11.795 | 173 | 266309 | 11.29 | PPBV | | 100 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.923 | 83 | 342379 | 10.09 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.213 | 75 | 245959 | 9.88 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.438 | 120 | 178061 | 9.21 | PPBV | | 100 |
| 89) BROMOBENZENE | 14.309 | 77 | 312541 | 9.90 | PPBV | | 100 |
| 90) 2-CHLOROTOLUENE | 15.444 | 126 | 165816 | 10.21 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.779 | 120 | 185062 | 10.42 | PPBV | | 100 |
| 92) 4-ETHYLTOLUENE | 16.145 | 105 | 691936 | 10.57 | PPBV | | 100 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.303 | 105 | 573950 | 10.51 | PPBV | | 100 |
| 94) ALPHA-METHYLSTYRENE | 16.502 | 118 | 294628 | 12.82 | PPBV | | 100 |
| 95) TERT-BUTYLBENZENE | 16.759 | 134 | 142637 | 10.21 | PPBV | | 97 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.769 | 105 | 607360 | 10.40 | PPBV | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61022.D
Acq On : 19 Aug 2022 6:00 pm
Operator : thomash
Sample : icv2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 24 16:30:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

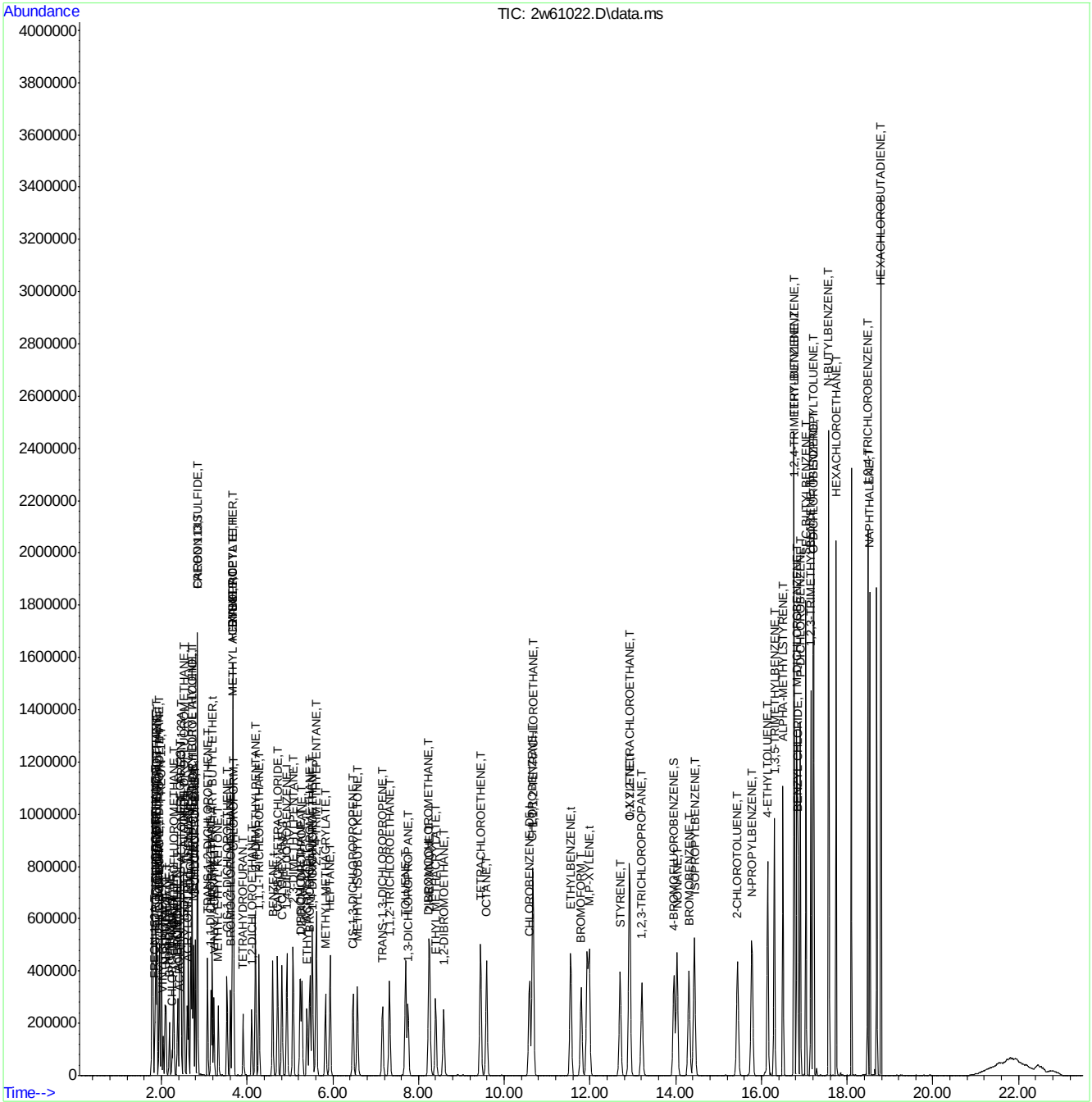
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.849 | 91 | 413519 | 11.44 | PPBV | 100 |
| 98) | M-DICHLOROBENZENE | 16.827 | 146 | 398111 | 10.38 | PPBV | 99 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 402996 | 10.36 | PPBV | 100 |
| 100) | O-DICHLOROBENZENE | 17.206 | 146 | 385593 | 10.21 | PPBV | 99 |
| 101) | SEC-BUTYLBENZENE | 17.039 | 134 | 175573 | 10.11 | PPBV | 99 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.152 | 105 | 575197 | 10.42 | PPBV | 100 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 193396 | 10.11 | PPBV | 99 |
| 104) | N-BUTYLBENZENE | 17.566 | 134 | 187841 | 10.62 | PPBV | 98 |
| 105) | HEXACHLOROETHANE | 17.743 | 117 | 233412 | 10.77 | PPBV | 99 |
| 106) | HEXACHLOROBUTADIENE | 18.788 | 225 | 280031 | 9.45 | PPBV | 100 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.479 | 180 | 336715 | 10.77 | PPBV | 99 |
| 108) | NAPHTHALENE | 18.528 | 128 | 779125 | 9.75 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61022.D
Acq On : 19 Aug 2022 6:00 pm
Operator : thomash
Sample : icv2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 24 16:30:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/27/22 15:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61611.D
Acq On : 27 Sep 2022 7:58 am
Operator : thomash
Sample : cc2709-10
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:18:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.615 | 128 | 79324 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 441027 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.589 | 117 | 400342 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 265537 | 9.96 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.843 | 65 | 66446 | 9.96 | PPBV | # | 100 |
| 4) CHLORODIFLUOROMETHANE | 1.862 | 67 | 29069 | 9.81 | PPBV | | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.875 | 116 | 154061 | 8.99 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.898 | 85 | 380202 | 9.63 | PPBV | | 99 |
| 7) PROPYLENE | 1.872 | 41 | 60984 | 8.19 | PPBV | | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.946 | 65 | 305324 | 10.28 | PPBV | | 97 |
| 9) FREON 114 | 1.991 | 85 | 356678 | 10.03 | PPBV | | 94 |
| 10) CHLOROMETHANE | 1.952 | 52 | 35211 | 8.86 | PPBV | | 100 |
| 11) VINYL CHLORIDE | 2.036 | 62 | 151324 | 10.96 | PPBV | | 99 |
| 12) 1,3-BUTADIENE | 2.087 | 54 | 103116 | 9.67 | PPBV | | 95 |
| 13) N-BUTANE | 2.107 | 43 | 159850 | 8.61 | PPBV | | 97 |
| 14) BROMOMETHANE | 2.187 | 94 | 118369 | 9.49 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.251 | 64 | 80896 | 10.95 | PPBV | | 96 |
| 16) DICHLOROFLUOROMETHANE | 2.284 | 67 | 305556 | 10.40 | PPBV | | 99 |
| 17) ACETONITRILE | 2.374 | 41 | 96171 | 8.71 | PPBV | | 100 |
| 18) ACROLEIN | 2.419 | 56 | 69916 | 14.35 | PPBV | | 97 |
| 19) FREON 123 | 2.435 | 83 | 340249 | 10.42 | PPBV | | 98 |
| 20) FREON 123A | 2.454 | 117 | 183398 | 9.71 | PPBV | | 87 |
| 21) TRICHLOROFLUOROMETHANE | 2.521 | 101 | 430226 | 10.48 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.534 | 45 | 297979 | 9.09 | PPBV | | 97 |
| 23) ACETONE | 2.460 | 58 | 84143 | 8.05 | PPBV | | 93 |
| 24) PENTANE | 2.631 | 42 | 176903 | 9.85 | PPBV | | 98 |
| 25) IODOMETHANE | 2.689 | 142 | 402706 | 10.03 | PPBV | | 99 |
| 26) 1,1-DICHLOROETHYLENE | 2.714 | 96 | 171958 | 10.91 | PPBV | | 86 |
| 27) CARBON DISULFIDE | 2.846 | 76 | 562183 | 11.84 | PPBV | | 98 |
| 28) ETHANOL | 2.287 | 45 | 47347 | 7.34 | PPBV | | 99 |
| 29) BROMOETHENE | 2.380 | 106 | 126568 | 9.94 | PPBV | | 97 |
| 30) ACRYLONITRILE | 2.605 | 52 | 133327 | 10.77 | PPBV | | 99 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 165437 | 9.46 | PPBV | | 96 |
| 32) 3-CHLOROPROPENE | 2.792 | 76 | 87970 | 10.88 | PPBV | | 87 |
| 33) FREON 113 | 2.846 | 151 | 269121 | 10.13 | PPBV | | 90 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 129282 | 9.85 | PPBV | | 91 |
| 35) TERTIARY BUTYL ALCOHOL | 2.724 | 59 | 407322 | 9.86 | PPBV | # | 91 |
| 36) METHYL TERTIARY BUTYL ... | 3.190 | 73 | 305759 | 8.99 | PPBV | | 98 |
| 37) TETRAHYDROFURAN | 3.907 | 72 | 60748 | 10.59 | PPBV | | 89 |
| 38) HEXANE | 3.666 | 57 | 231457 | 10.10 | PPBV | | 94 |
| 39) VINYL ACETATE | 3.232 | 86 | 33608 | 10.40 | PPBV | | 77 |
| 40) 1,1-DICHLOROETHANE | 3.158 | 63 | 258366 | 11.00 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.329 | 72 | 62976 | 10.78 | PPBV | | 80 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 135289 | 9.60 | PPBV | | 92 |
| 43) DIISOPROPYL ETHER | 3.669 | 59 | 69876 | 10.41 | PPBV | | 71 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61611.D
Acq On : 27 Sep 2022 7:58 am
Operator : thomash
Sample : cc2709-10
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:18:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.673 | 61 | 51615 | 10.99 | PPBV | | 63 |
| 45) METHYL ACRYLATE | 3.660 | 55 | 275059 | 10.20 | PPBV | # | 99 |
| 46) CHLOROFORM | 3.689 | 83 | 282131 | 9.83 | PPBV | | 100 |
| 47) 2,4-DIMETHYLPENTANE | 4.197 | 57 | 267368 | 10.01 | PPBV | | 98 |
| 48) 1,1,1-TRICHLOROETHANE | 4.280 | 97 | 268489 | 9.38 | PPBV | | 95 |
| 49) CARBON TETRACHLORIDE | 4.711 | 117 | 272721 | 9.61 | PPBV | | 95 |
| 50) 1,2-DICHLOROETHANE | 4.110 | 62 | 206921 | 10.64 | PPBV | | 99 |
| 51) BENZENE | 4.595 | 78 | 411581 | 10.04 | PPBV | | 97 |
| 53) CYCLOHEXANE | 4.814 | 84 | 173332 | 9.31 | PPBV | | 99 |
| 54) 2,3-DIMETHYLPENTANE | 5.074 | 71 | 87040 | 9.52 | PPBV | | 96 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 180003 | 9.63 | PPBV | | 96 |
| 56) 1,2-DICHLOROPROPANE | 5.280 | 63 | 172324 | 10.24 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.242 | 174 | 162228 | 8.43 | PPBV | | 94 |
| 58) ETHYL ACRYLATE | 5.399 | 55 | 320975 | 10.15 | PPBV | | 99 |
| 59) BROMODICHLOROMETHANE | 5.463 | 83 | 305115 | 9.88 | PPBV | | 100 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 713771 | 9.58 | PPBV | | 99 |
| 61) 1,4-DIOXANE | 5.528 | 88 | 94334 | 10.44 | PPBV | | 97 |
| 62) HEPTANE | 5.936 | 43 | 195753 | 8.35 | PPBV | | 90 |
| 63) METHYL METHACRYLATE | 5.830 | 69 | 146780 | 10.21 | PPBV | | 94 |
| 64) METHYL ISOBUTYL KETONE | 6.573 | 58 | 137591 | 11.47 | PPBV | | 88 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.476 | 75 | 214139 | 9.60 | PPBV | | 96 |
| 66) TOLUENE | 7.698 | 91 | 503666 | 9.47 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.756 | 76 | 249329 | 9.87 | PPBV | | 99 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.161 | 75 | 182852 | 9.14 | PPBV | | 98 |
| 69) 1,1,2-TRICHLOROETHANE | 7.322 | 83 | 148725 | 9.55 | PPBV | | 98 |
| 70) 2-HEXANONE | 8.261 | 58 | 179882 | 10.72 | PPBV | | 88 |
| 71) ETHYL METHACRYLATE | 8.402 | 69 | 240128 | 11.46 | PPBV | | 95 |
| 72) TETRACHLOROETHENE | 9.444 | 164 | 185506 | 8.71 | PPBV | | 99 |
| 73) DIBROMOCHLOROMETHANE | 8.242 | 129 | 289043 | 9.53 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.589 | 107 | 265145 | 9.35 | PPBV | | 100 |
| 75) OCTANE | 9.585 | 43 | 268417 | 8.52 | PPBV | | 92 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.676 | 131 | 198032 | 9.13 | PPBV | | 96 |
| 78) CHLOROBENZENE | 10.666 | 112 | 388815 | 9.04 | PPBV | | 97 |
| 79) ETHYLBENZENE | 11.553 | 91 | 667998 | 9.74 | PPBV | | 98 |
| 80) M,P-XYLENE | 11.978 | 91 | 1030432m | 19.75 | PPBV | | |
| 81) O-XYLENE | 12.920 | 91 | 527457 | 9.89 | PPBV | | 95 |
| 82) STYRENE | 12.701 | 104 | 395465 | 10.36 | PPBV | | 99 |
| 83) NONANE | 14.029 | 43 | 285374 | 8.67 | PPBV | | 89 |
| 84) BROMOFORM | 11.794 | 173 | 282681 | 10.25 | PPBV | | 100 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.929 | 83 | 394731 | 9.95 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.212 | 75 | 287825 | 9.89 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.431 | 120 | 187199 | 8.28 | PPBV | | 92 |
| 89) BROMOBENZENE | 14.309 | 77 | 359091 | 9.73 | PPBV | | 93 |
| 90) 2-CHLOROTOLUENE | 15.444 | 126 | 169638 | 8.93 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.781 | 120 | 191801 | 9.23 | PPBV | | 97 |
| 92) 4-ETHYLTOLUENE | 16.148 | 105 | 761742 | 9.95 | PPBV | | 96 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.302 | 105 | 630054 | 9.87 | PPBV | | 96 |
| 94) ALPHA-METHYLSTYRENE | 16.502 | 118 | 320374 | 11.93 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.759 | 134 | 149287 | 9.14 | PPBV | | 99 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.769 | 105 | 679650 | 9.96 | PPBV | | 91 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61611.D
Acq On : 27 Sep 2022 7:58 am
Operator : thomash
Sample : cc2709-10
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:18:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

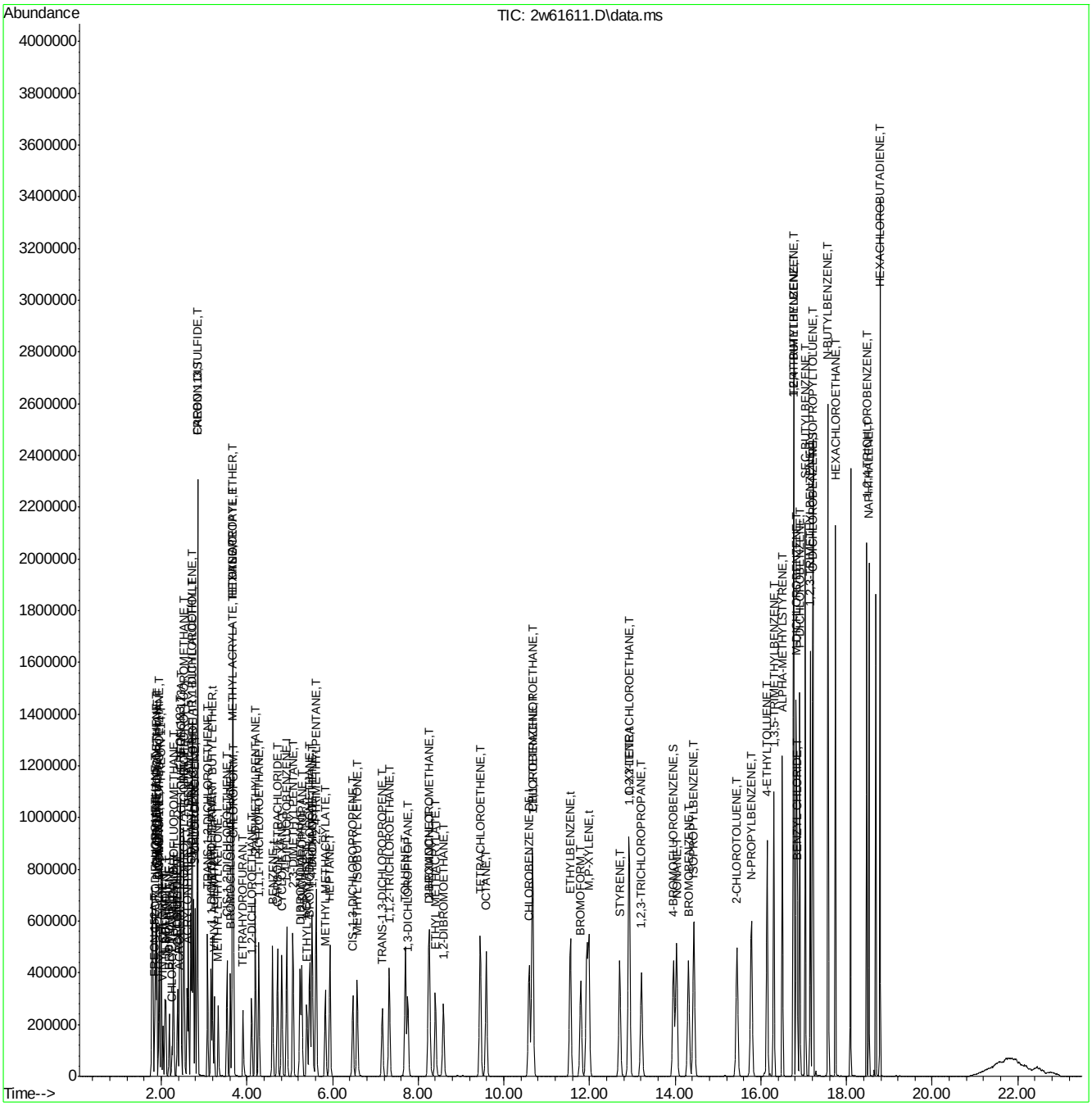
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.852 | 91 | 318652 | 7.54 | PPBV | 96 |
| 98) | M-DICHLOROBENZENE | 16.826 | 146 | 416151 | 9.28 | PPBV | 99 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 416795 | 9.17 | PPBV | 100 |
| 100) | O-DICHLOROBENZENE | 17.203 | 146 | 406115 | 9.19 | PPBV | 99 |
| 101) | SEC-BUTYLBENZENE | 17.039 | 134 | 183422 | 9.03 | PPBV | 84 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 637875 | 9.88 | PPBV | 96 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 199761 | 8.93 | PPBV | 100 |
| 104) | N-BUTYLBENZENE | 17.563 | 134 | 184148 | 8.90 | PPBV | 83 |
| 105) | HEXACHLOROETHANE | 17.743 | 117 | 244676 | 9.66 | PPBV | 96 |
| 106) | HEXACHLOROBUTADIENE | 18.781 | 225 | 296545 | 8.56 | PPBV | 100 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.473 | 180 | 324952 | 8.89 | PPBV | 98 |
| 108) | NAPHTHALENE | 18.521 | 128 | 799362 | 8.55 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61611.D
Acq On : 27 Sep 2022 7:58 am
Operator : thomash
Sample : cc2709-10
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:18:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



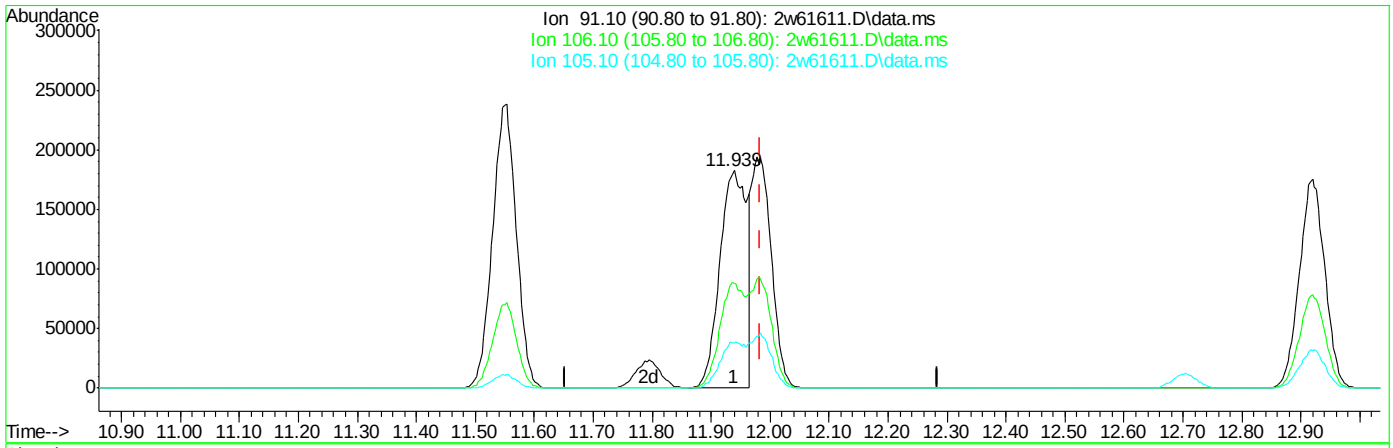
| | | | |
|---|---|---|---|
| **Sample Number:** | V2W2734-CC2709 | **Method:** | TO-15 |
| **Lab FileID:** | 2W61611.D | **Analyst approved:** | 09/27/22 10:38 Thomas Hilbig |
| **Injection Time:** | 09/27/22 07:58 | **Supervisor approved:** | 09/27/22 15:04 Kanya Veerawat |

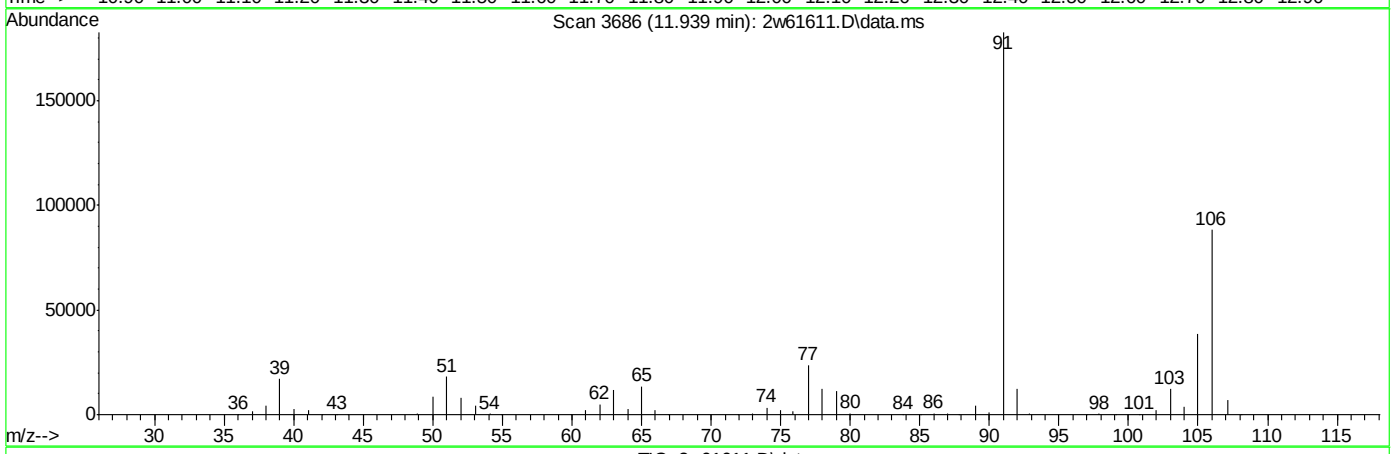
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| m,p-Xylene | | | 11.98 | Split peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 2w61611.D
Acq On : 27 Sep 2022 7:58 am
Operator : thomash
Sample : cc2709-10
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 08:35:46 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61611.D\data.ms

(80) M,P-XYLENE (t)

11.939min (-0.045) 11.16PPBV

response 582260

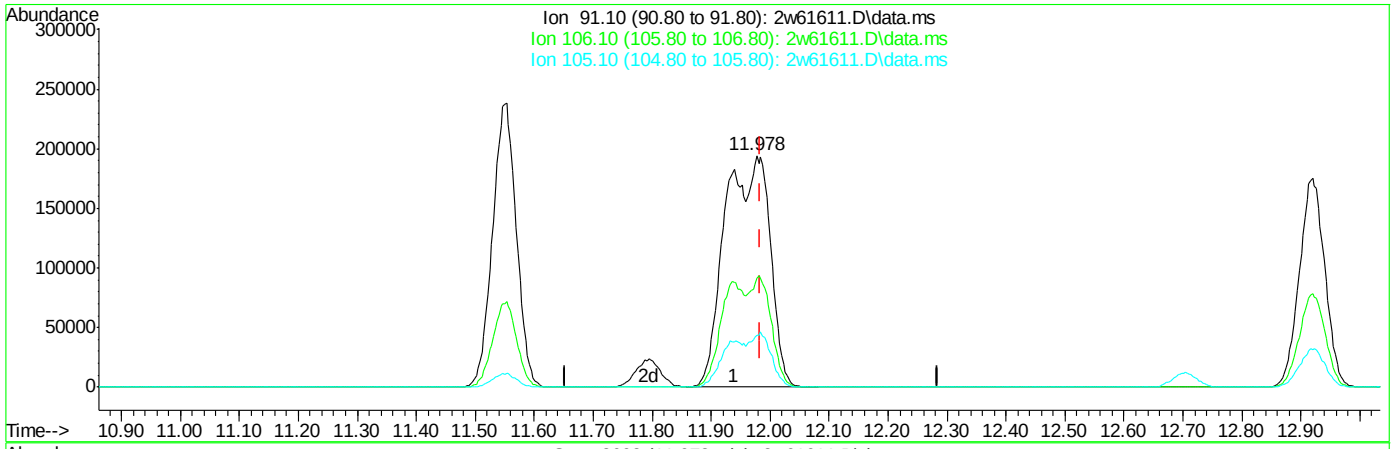
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 23.00 | 43.20# |
| 105.10 | 10.90 | 19.17 |
| 0.00 | 0.00 | 0.00 |

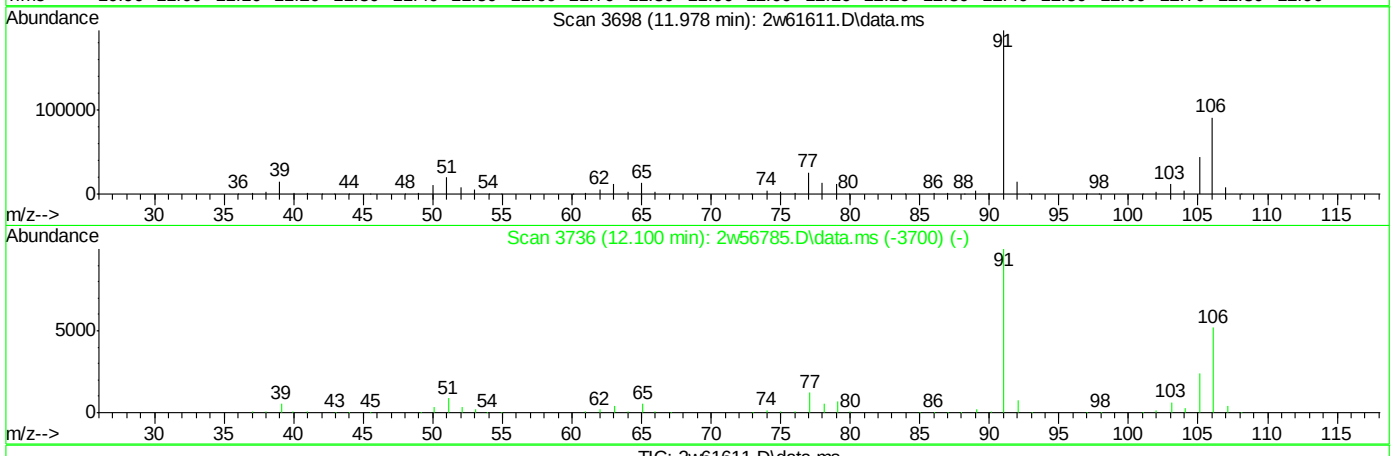
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 2w61611.D
Acq On : 27 Sep 2022 7:58 am
Operator : thomash
Sample : cc2709-10
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 08:35:46 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration









TIC: 2w61611.D\data.ms

(80) M,P-XYLENE (t)

11.978min (-0.007) 19.75PPBV m

response 1030432

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 23.00 | 24.41 |
| 105.10 | 10.90 | 10.83 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/22 10:23

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:04:39 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.412 | 128 | 46617 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.792 | 114 | 250125 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.605 | 117 | 220535 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.029 | 95 | 153966 | 9.95 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.798 | 65 | 1247 | 0.06 | PPBV | # 1 |
| 9) FREON 114 | 1.830 | 85 | 1295 | 0.06 | PPBV | # 74 |
| 11) VINYL CHLORIDE | 1.859 | 62 | 609 | 0.07 | PPBV | # 50 |
| 13) N-BUTANE | 1.914 | 43 | 1091 | 0.09 | PPBV | # 1 |
| 14) BROMOMETHANE | 1.972 | 94 | 482m | 0.06 | PPBV | |
| 15) CHLOROETHANE | 2.020 | 64 | 373m | 0.08 | PPBV | |
| 16) DICHLOROFLUOROMETHANE | 2.046 | 67 | 1104 | 0.06 | PPBV | # 49 |
| 19) FREON 123 | 2.161 | 83 | 1174 | 0.06 | PPBV | # 89 |
| 20) FREON 123A | 2.184 | 117 | 526m | 0.05 | PPBV | |
| 21) TRICHLOROFLUOROMETHANE | 2.245 | 101 | 1257 | 0.06 | PPBV | # 92 |
| 24) PENTANE | 2.354 | 42 | 531 | 0.06 | PPBV | # 53 |
| 25) IODOMETHANE | 2.419 | 142 | 1140 | 0.05 | PPBV | # 38 |
| 26) 1,1-DICHLOROETHYLENE | 2.448 | 96 | 525 | 0.06 | PPBV | # 66 |
| 27) CARBON DISULFIDE | 2.592 | 76 | 1479 | 0.06 | PPBV | # 48 |
| 29) BROMOETHENE | 2.116 | 106 | 448m | 0.06 | PPBV | |
| 32) 3-CHLOROPROPENE | 2.538 | 76 | 275m | 0.07 | PPBV | |
| 33) FREON 113 | 2.592 | 151 | 757 | 0.05 | PPBV | # 85 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.843 | 96 | 625 | 0.07 | PPBV | # 70 |
| 35) TERTIARY BUTYL ALCOHOL | 2.473 | 59 | 1404 | 0.07 | PPBV | # 45 |
| 36) METHYL TERTIARY BUTYL ... | 2.972 | 73 | 1639 | 0.06 | PPBV | # 88 |
| 38) HEXANE | 3.467 | 57 | 728 | 0.06 | PPBV | # 49 |
| 40) 1,1-DICHLOROETHANE | 2.933 | 63 | 1031 | 0.06 | PPBV | # 50 |
| 45) METHYL ACRYLATE | 3.473 | 55 | 831 | 0.06 | PPBV | # 65 |
| 46) CHLOROFORM | 3.496 | 83 | 870 | 0.06 | PPBV | # 82 |
| 47) 2,4-DIMETHYLPENTANE | 4.023 | 57 | 803 | 0.06 | PPBV | # 31 |
| 48) 1,1,1-TRICHLOROETHANE | 4.110 | 97 | 811 | 0.05 | PPBV | # 70 |
| 49) CARBON TETRACHLORIDE | 4.557 | 117 | 760 | 0.05 | PPBV | # 85 |
| 50) 1,2-DICHLOROETHANE | 3.940 | 62 | 680 | 0.07 | PPBV | # 49 |
| 51) BENZENE | 4.444 | 78 | 1344 | 0.06 | PPBV | # 66 |
| 53) CYCLOHEXANE | 4.660 | 84 | 538 | 0.06 | PPBV | # 69 |
| 55) TRICHLOROETHENE | 5.402 | 95 | 484m | 0.05 | PPBV | |
| 57) DIBROMOMETHANE | 5.116 | 174 | 507 | 0.06 | PPBV | # 52 |
| 58) ETHYL ACRYLATE | 5.300 | 55 | 912 | 0.05 | PPBV | # 73 |
| 59) BROMODICHLOROMETHANE | 5.351 | 83 | 795 | 0.05 | PPBV | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.499 | 57 | 2092 | 0.06 | PPBV | # 91 |
| 62) HEPTANE | 5.830 | 43 | 826 | 0.06 | PPBV | # 15 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.393 | 75 | 629 | 0.05 | PPBV | # 21 |
| 66) TOLUENE | 7.656 | 91 | 1495 | 0.05 | PPBV | 97 |
| 67) 1,3-DICHLOROPROPANE | 7.705 | 76 | 752 | 0.05 | PPBV | # 49 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.100 | 75 | 608 | 0.05 | PPBV | # 42 |
| 69) 1,1,2-TRICHLOROETHANE | 7.271 | 83 | 407m | 0.05 | PPBV | |
| 71) ETHYL METHACRYLATE | 8.390 | 69 | 580 | 0.04 | PPBV | # 40 |
| 72) TETRACHLOROETHENE | 9.457 | 164 | 491m | 0.05 | PPBV | |
| 73) DIBROMOCHLOROMETHANE | 8.216 | 129 | 693 | 0.04 | PPBV | # 82 |
| 74) 1,2-DIBROMOETHANE | 8.563 | 107 | 722 | 0.05 | PPBV | # 99 |
| 75) OCTANE | 9.579 | 43 | 1093 | 0.06 | PPBV | # 23 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.701 | 131 | 518 | 0.04 | PPBV | # 39 |
| 78) CHLOROBENZENE | 10.685 | 112 | 1050 | 0.05 | PPBV | # 69 |
| 79) ETHYLBENZENE | 11.586 | 91 | 2033 | 0.06 | PPBV | 95 |
| 80) M,P-XYLENE | 11.987 | 91 | 2839m | 0.10 | PPBV | |
| 81) O-XYLENE | 12.975 | 91 | 1558 | 0.05 | PPBV | # 81 |
| 82) STYRENE | 12.762 | 104 | 911m | 0.04 | PPBV | |
| 84) BROMOFORM | 11.836 | 173 | 647 | 0.04 | PPBV | # 36 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.984 | 83 | 1106 | 0.05 | PPBV | # 25 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:04:39 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

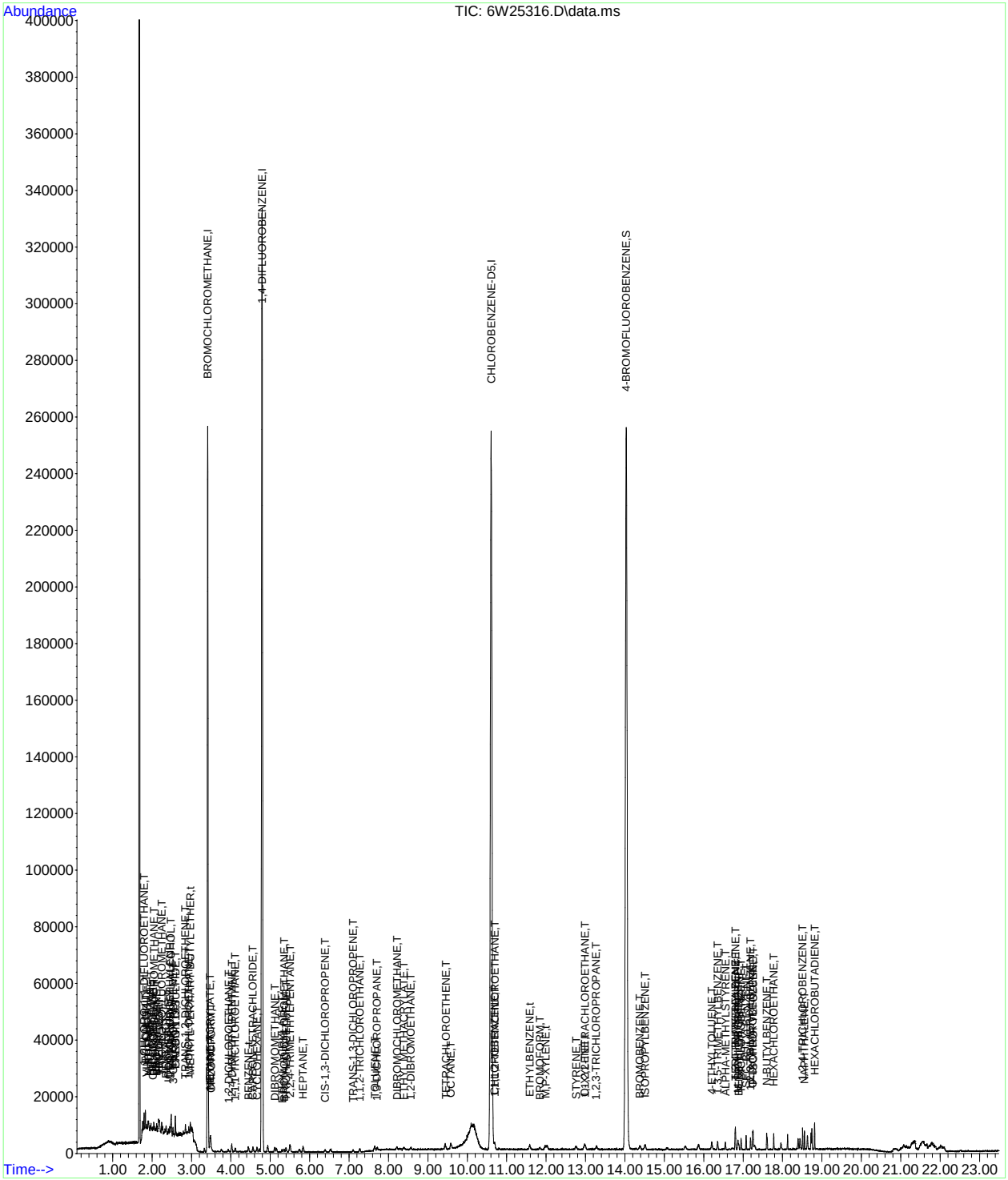
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 86) | 1,2,3-TRICHLOROPROPANE | 13.267 | 75 | 828 | 0.05 | PPBV | # | 99 |
| 88) | ISOPROPYLBENZENE | 14.508 | 120 | 556 | 0.05 | PPBV | # | 26 |
| 89) | BROMOBENZENE | 14.376 | 77 | 1113 | 0.05 | PPBV | # | 52 |
| 92) | 4-ETHYLTOLUENE | 16.203 | 105 | 1909 | 0.05 | PPBV | # | 98 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.351 | 105 | 1653 | 0.05 | PPBV | # | 95 |
| 94) | ALPHA-METHYLSTYRENE | 16.553 | 118 | 645 | 0.04 | PPBV | # | 68 |
| 95) | TERT-BUTYLBENZENE | 16.801 | 134 | 488m | 0.06 | PPBV | | |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.804 | 105 | 1667 | 0.05 | PPBV | # | 83 |
| 97) | BENZYL CHLORIDE | 16.884 | 91 | 1223 | 0.04 | PPBV | # | 60 |
| 98) | M-DICHLOROBENZENE | 16.872 | 146 | 1236 | 0.05 | PPBV | # | 76 |
| 99) | P-DICHLOROBENZENE | 16.949 | 146 | 1322 | 0.05 | PPBV | # | 73 |
| 100) | O-DICHLOROBENZENE | 17.238 | 146 | 1158 | 0.05 | PPBV | # | 74 |
| 101) | SEC-BUTYLBENZENE | 17.074 | 134 | 537 | 0.05 | PPBV | | 91 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.187 | 105 | 1746 | 0.05 | PPBV | # | 91 |
| 103) | P-ISOPROPYLTOLUENE | 17.254 | 134 | 542 | 0.04 | PPBV | | 95 |
| 104) | N-BUTYLBENZENE | 17.598 | 134 | 542 | 0.05 | PPBV | | 98 |
| 105) | HEXACHLOROETHANE | 17.775 | 117 | 627 | 0.04 | PPBV | # | 53 |
| 106) | HEXACHLOROBUTADIENE | 18.814 | 225 | 858 | 0.05 | PPBV | | 93 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.508 | 180 | 1127 | 0.05 | PPBV | # | 78 |
| 108) | NAPHTHALENE | 18.556 | 128 | 2675 | 0.04 | PPBV | # | 69 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:04:39 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



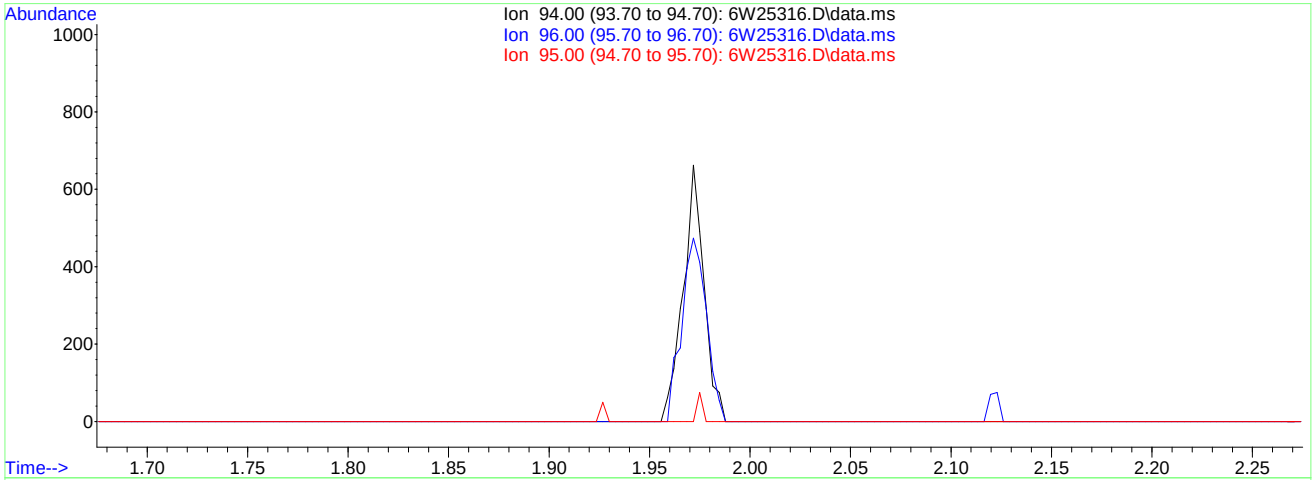
**Sample Number:** V6W1077-IC1077
**Lab FileID:** 6W25316.D
**Injection Time:** 08/04/22 17:54
**Method:** TO-15
**Analyst approved:** 08/05/22 10:02 Thomas Hilbig
**Supervisor approved:** 08/08/22 10:23 Kanya Veerawat

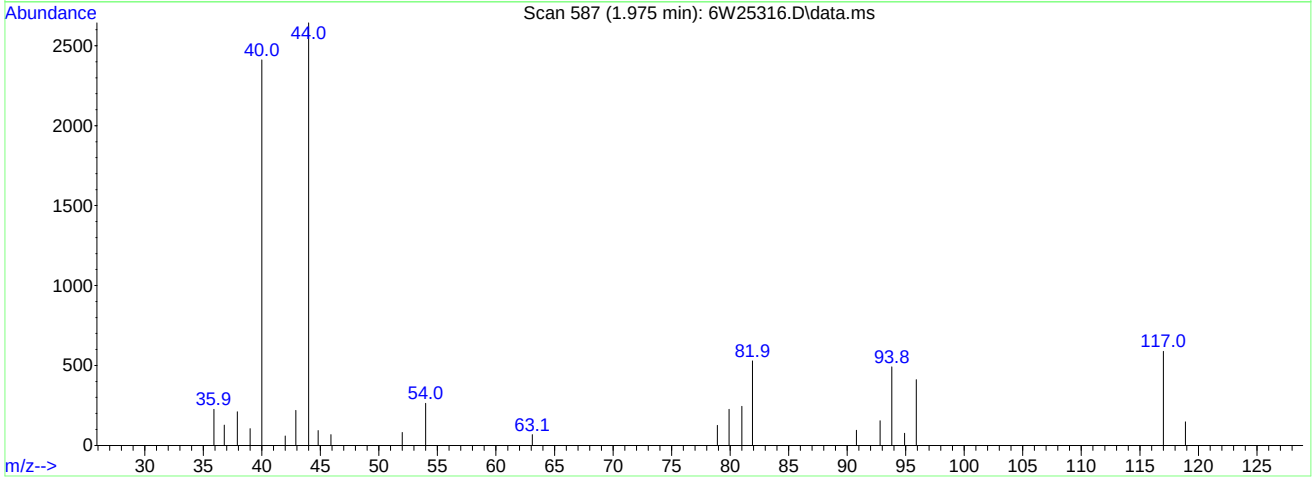
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Bromomethane | 74-83-9 | | 1.97 | Missed peak |
| Chloroethane | 75-00-3 | | 2.02 | Missed peak |
| Bromoethene | 593-60-2 | | 2.12 | Missed peak |
| Freon 123A | 354-23-4 | | 2.18 | Poorly defined baseline |
| 3-Chloropropene | 107-05-1 | | 2.54 | Missed peak |
| Trichloroethylene | 79-01-6 | | 5.40 | Missed peak |
| 1,1,2-Trichloroethane | 79-00-5 | | 7.27 | Missed peak |
| Tetrachloroethylene | 127-18-4 | | 9.46 | Missed peak |
| m,p-Xylene | | | 11.99 | Split peak |
| Styrene | 100-42-5 | | 12.76 | Poor instrument integration |
| tert-Butylbenzene | 98-06-6 | | 16.80 | Missed peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(14) BROMOMETHANE (T)

1.975min (-1.975) 0.00PPBV

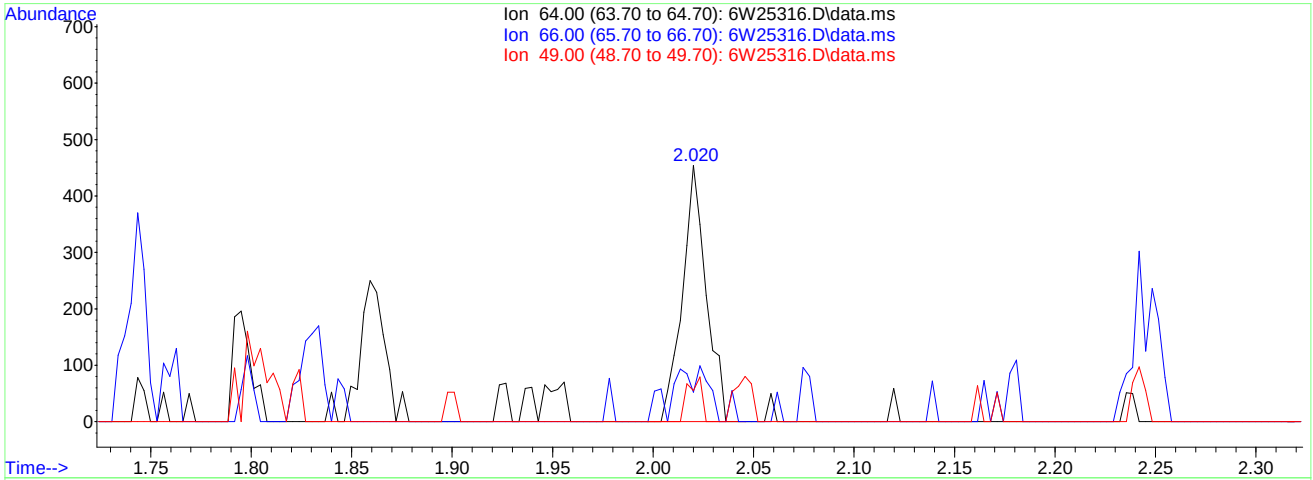
response 0

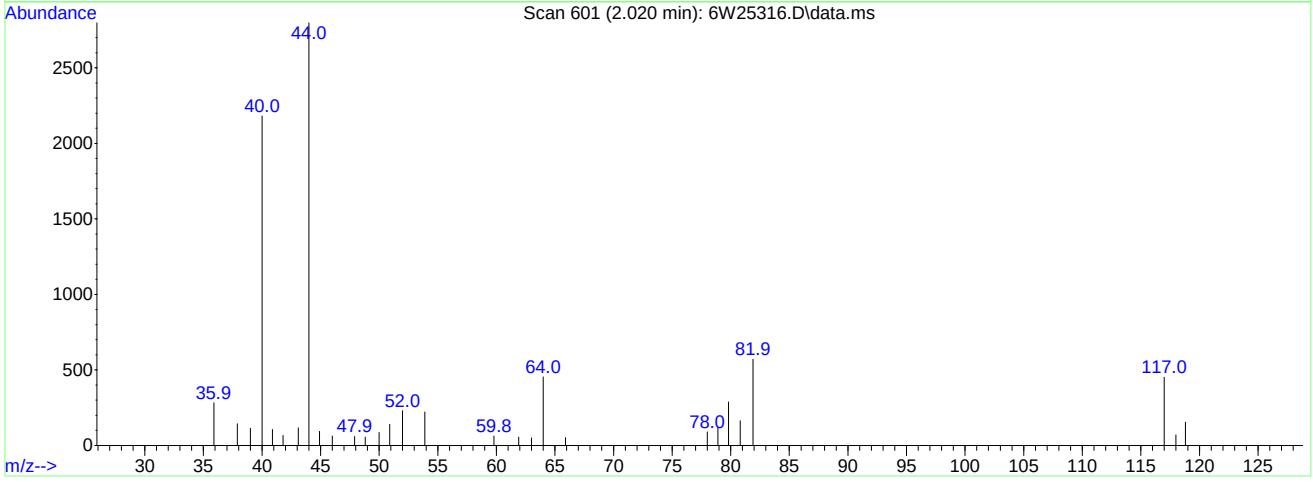
| Ion | Exp% | Act% |
|---|---|---|
| 94.00 | 100 | 0.00 |
| 96.00 | 94.20 | 0.00# |
| 95.00 | 13.70 | 0.00# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(15) CHLOROETHANE (T)

2.020min (-0.003) 0.08PPBV m

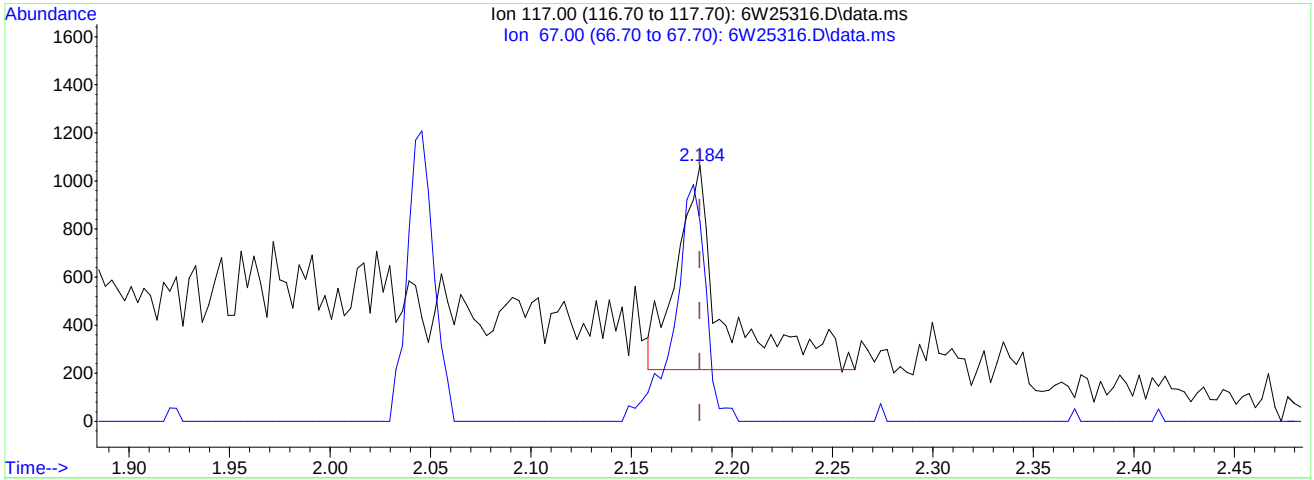
response 373

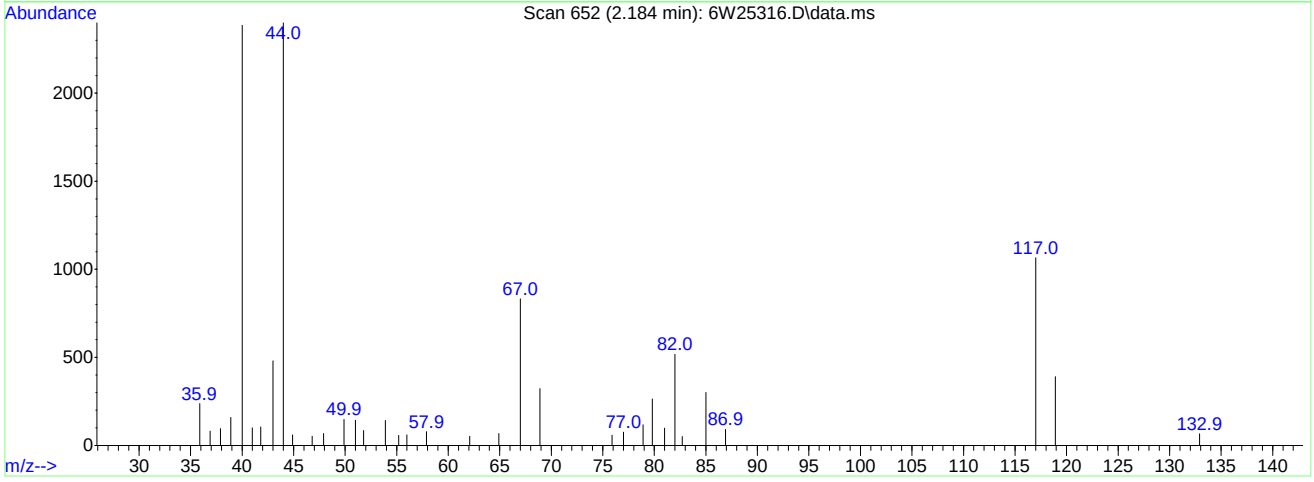
| Ion | Exp% | Act% |
|---|---|---|
| 64.00 | 100 | 100 |
| 66.00 | 33.90 | 0.00# |
| 49.00 | 29.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(20) FREON 123A (T)

2.184min (+0.000) 0.13PPBV

response 1388

| Ion | Exp% | Act% |
|---|---|---|
| 117.00 | 100 | 100 |
| 67.00 | 141.60 | 77.09# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



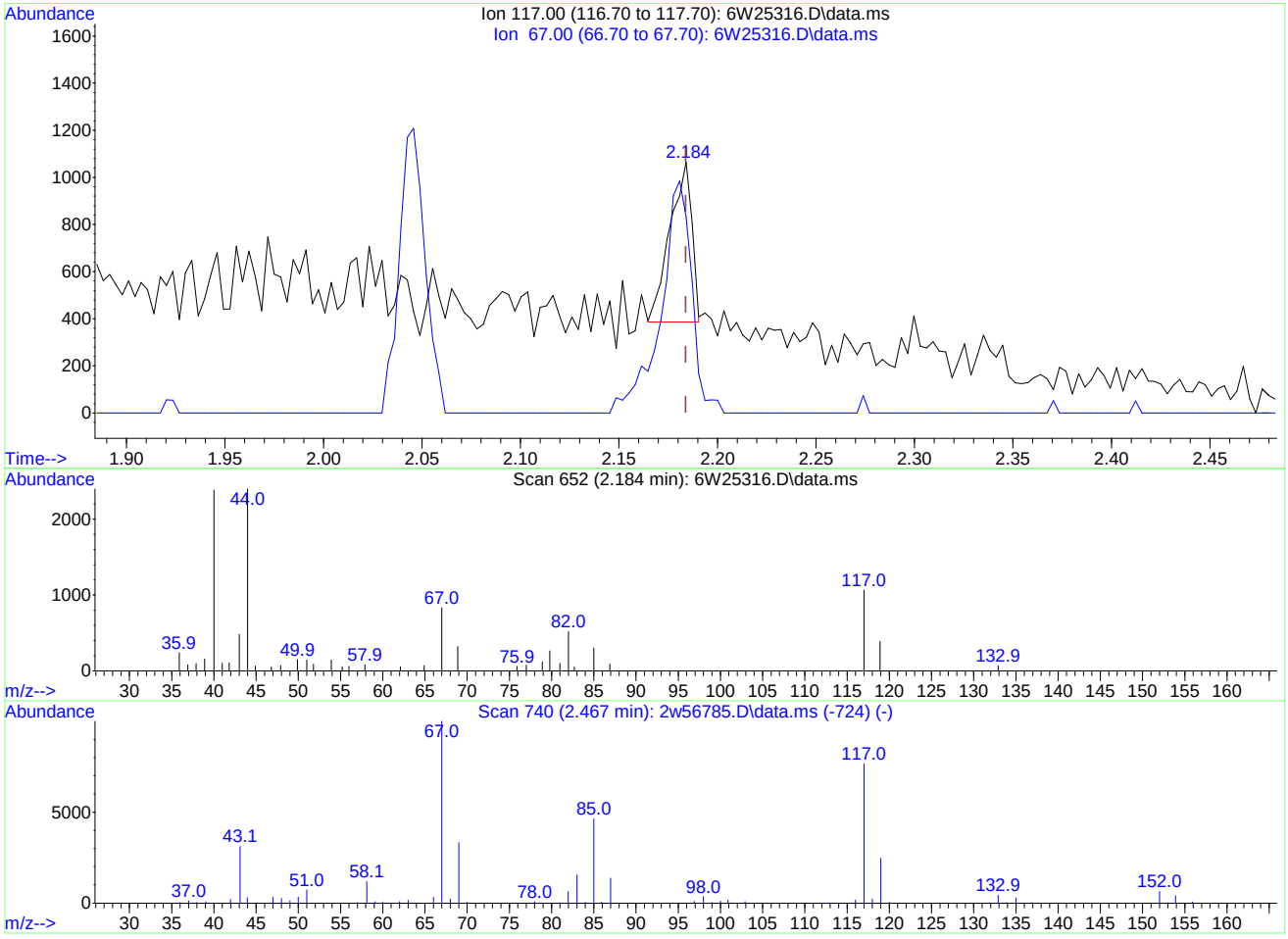


6W25316.D edits: FREON 123A

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(20) FREON 123A (T)

2.184min (+0.000) 0.05PPBV m

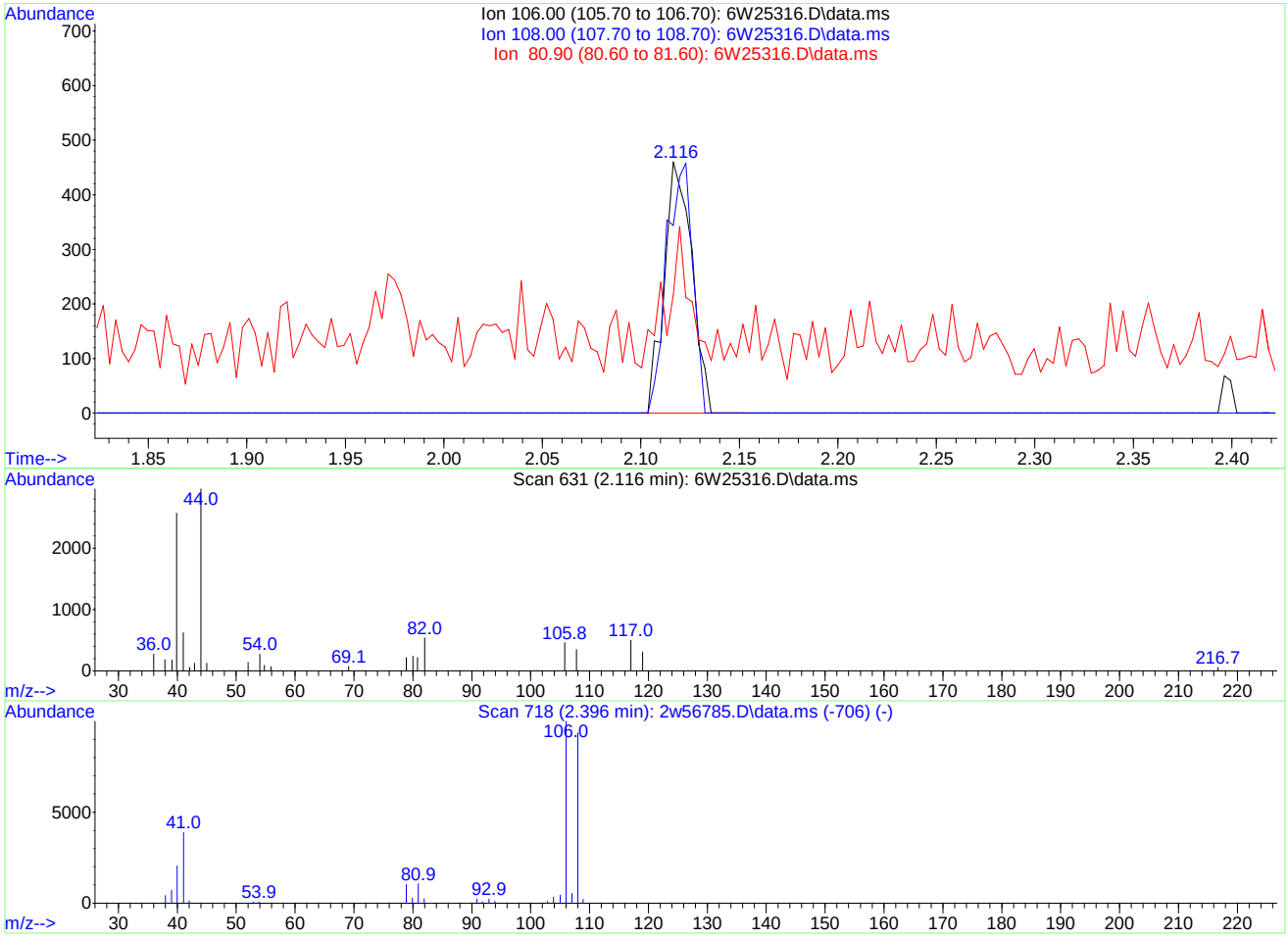
response 526

| Ion | Exp% | Act% |
|---|---|---|
| 117.00 | 100 | 100 |
| 67.00 | 141.60 | 203.42# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(29) BROMOETHENE (T)

2.116min (-0.006) 0.06PPBV m

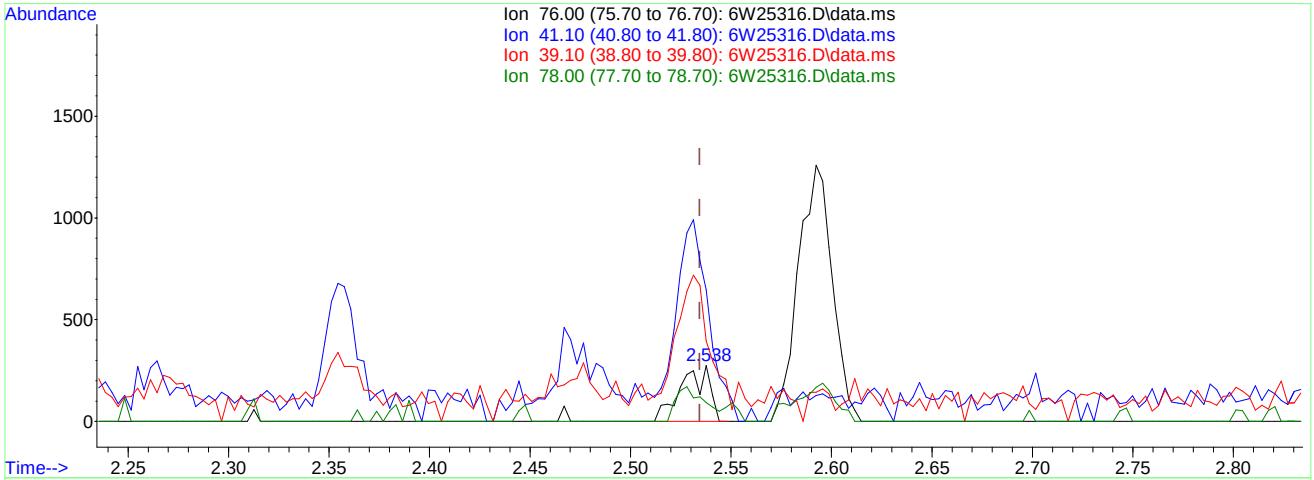
response 448

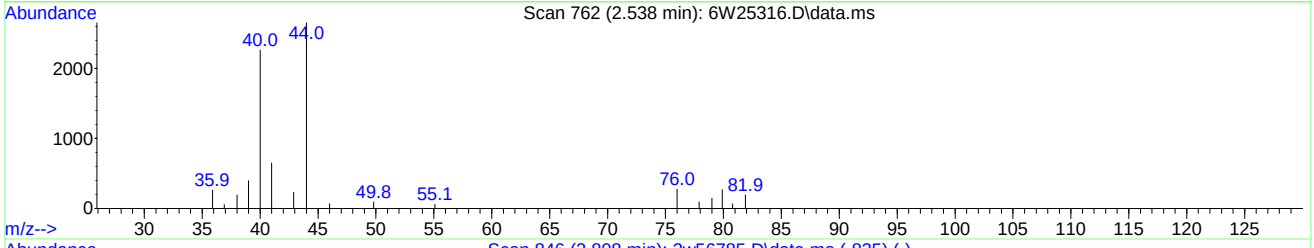
| Ion | Exp% | Act% |
|---|---|---|
| 106.00 | 100 | 100 |
| 108.00 | 94.60 | 0.00# |
| 80.90 | 10.40 | 0.00# |
| 0.00 | 0.00 | 0.00 |

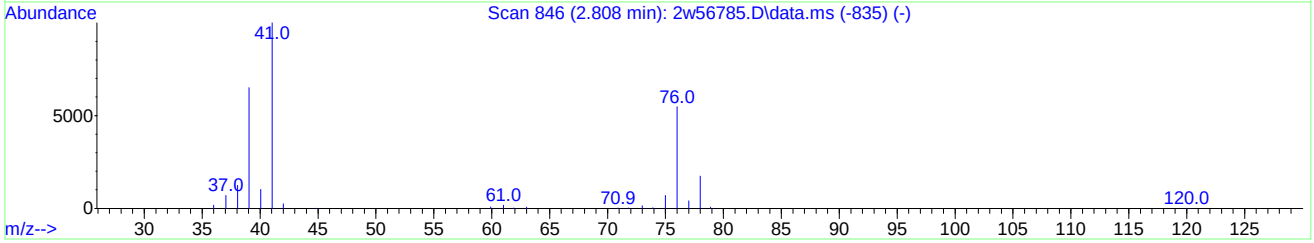
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(32) 3-CHLOROPROPENE (T)

2.538min (+0.003) 0.07PPBV m

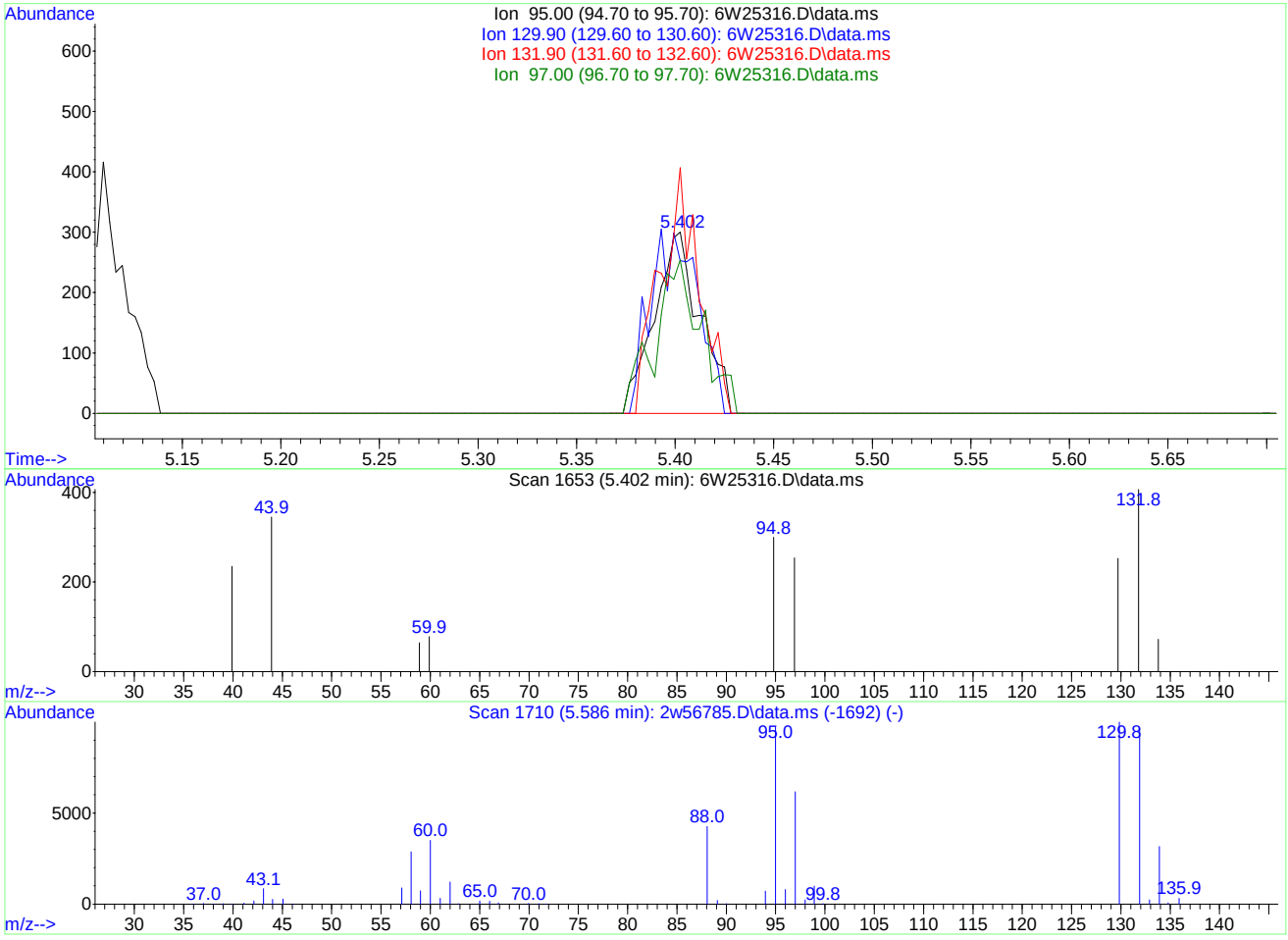
response 275

| Ion | Exp% | Act% |
|---|---|---|
| 76.00 | 100 | 100 |
| 41.10 | 184.90 | 0.00# |
| 39.10 | 118.20 | 0.00# |
| 78.00 | 32.40 | 0.00# |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(55) TRICHLOROETHENE (T)

5.402min (-0.003) 0.05PPBV m

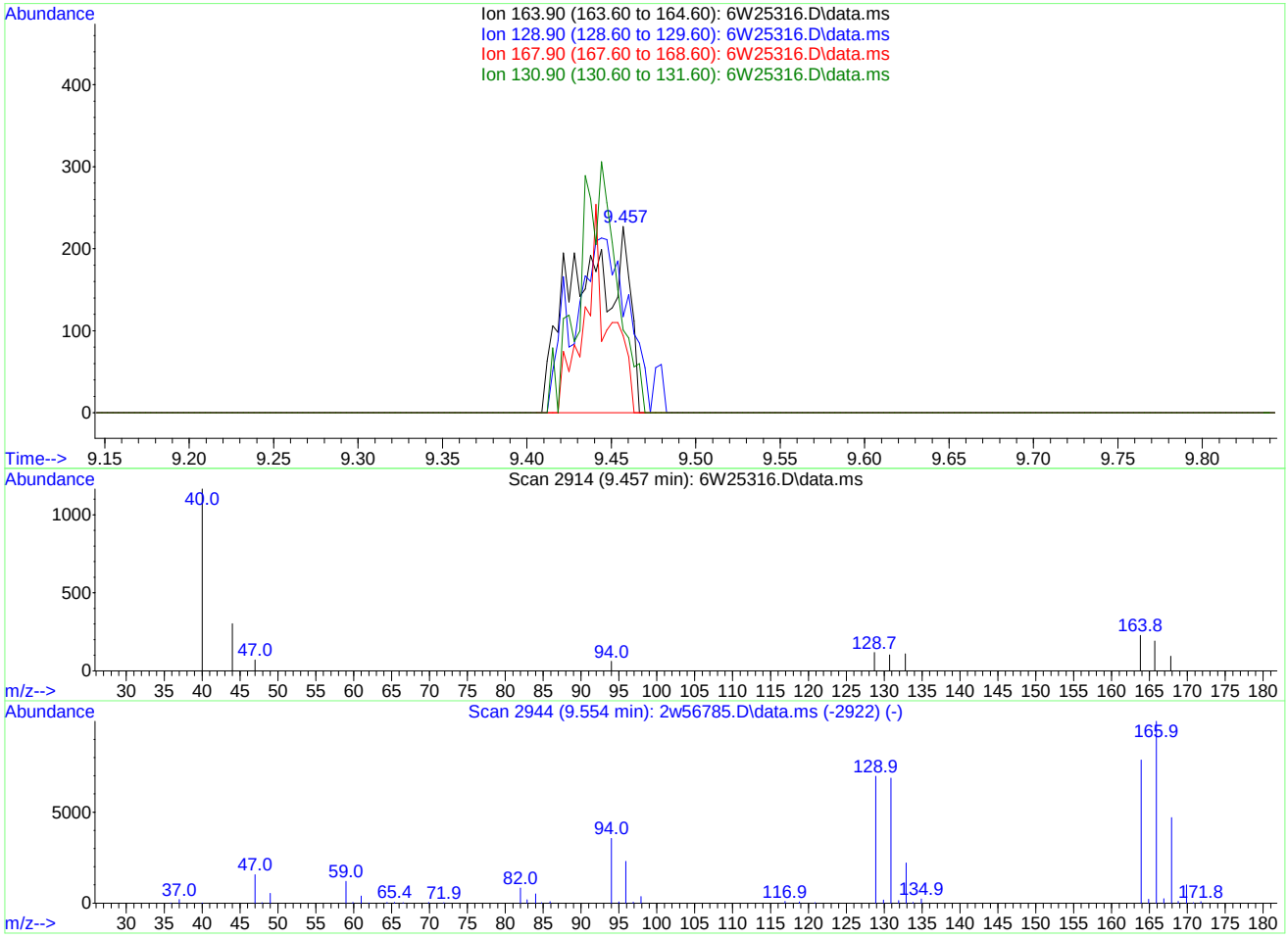
response 484

| Ion | Exp% | Act% |
|---|---|---|
| 95.00 | 100 | 100 |
| 129.90 | 104.00 | 0.00# |
| 131.90 | 99.70 | 0.00# |
| 97.00 | 64.10 | 0.00# |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(72) TETRACHLOROETHENE (T)

9.457min (+0.013) 0.05PPBV m

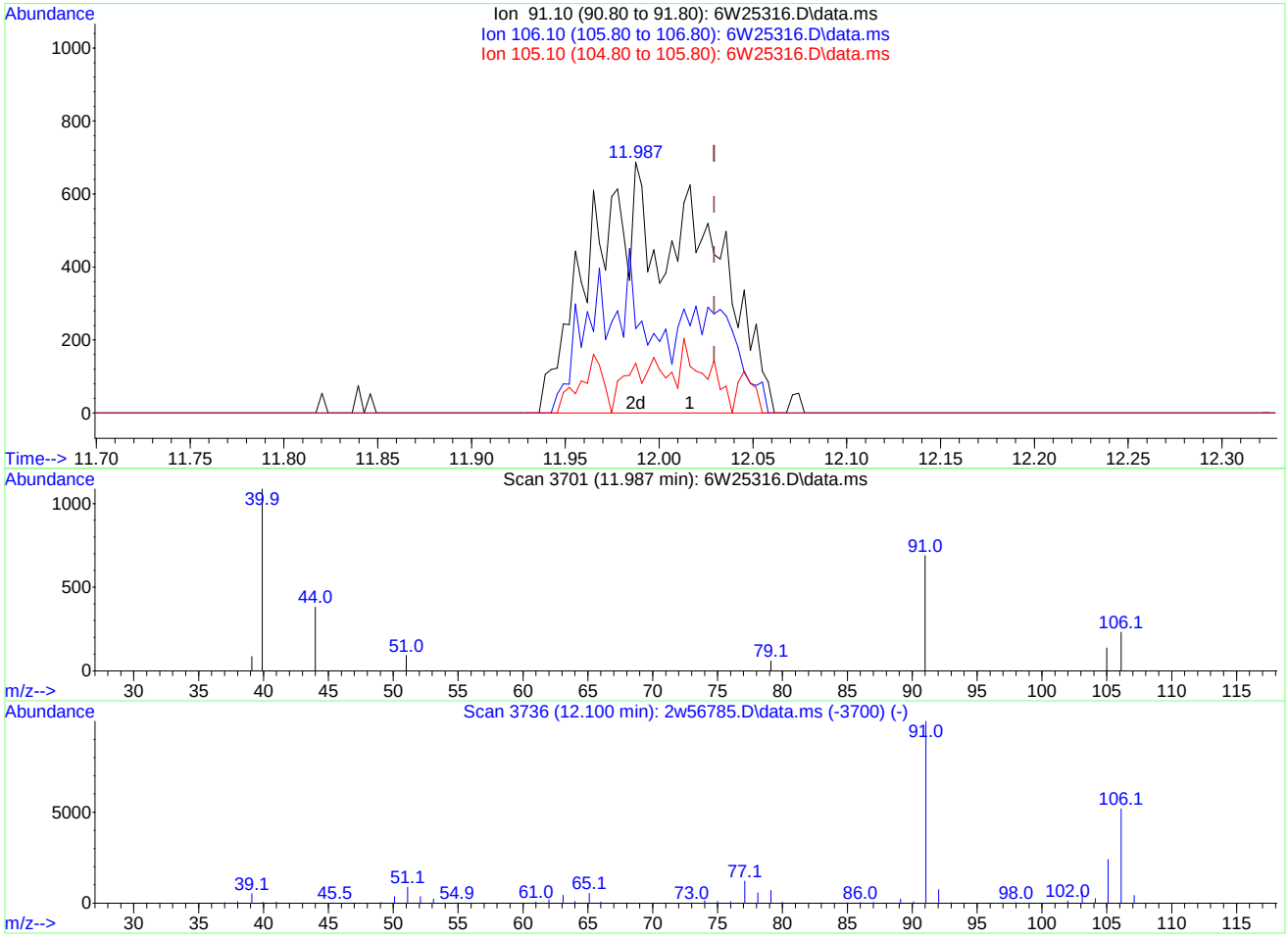
response 491

| Ion | Exp% | Act% |
|---|---|---|
| 163.90 | 100 | 100 |
| 128.90 | 90.00 | 0.00# |
| 167.90 | 60.70 | 0.00# |
| 130.90 | 86.30 | 0.00# |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(80) M,P-XYLENE (t)

11.987min (-0.042) 0.10PPBV m

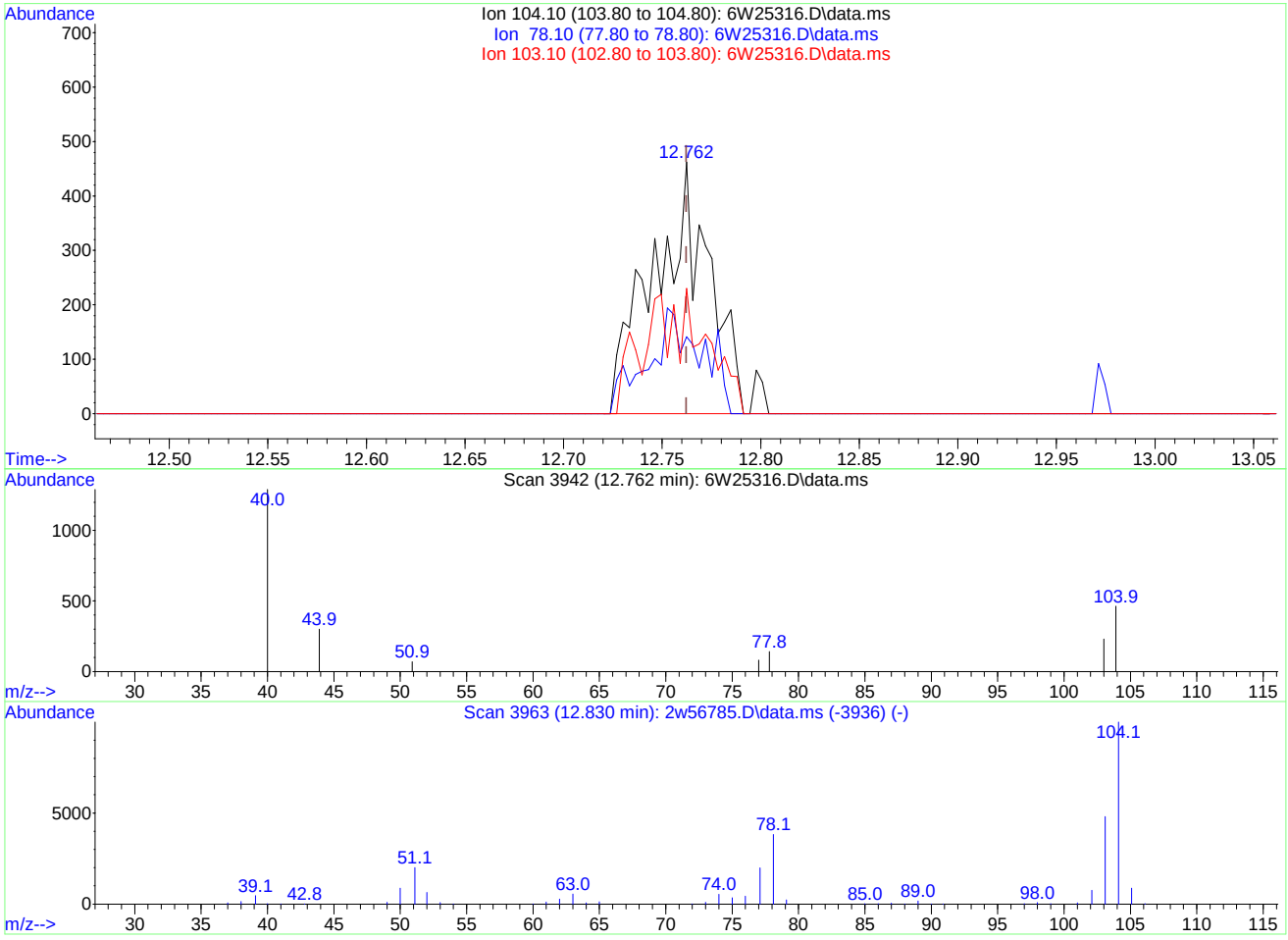
response 2839

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 0.00# |
| 105.10 | 23.60 | 0.00# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(82) STYRENE (T)

12.762min (+0.000) 0.04PPBV m

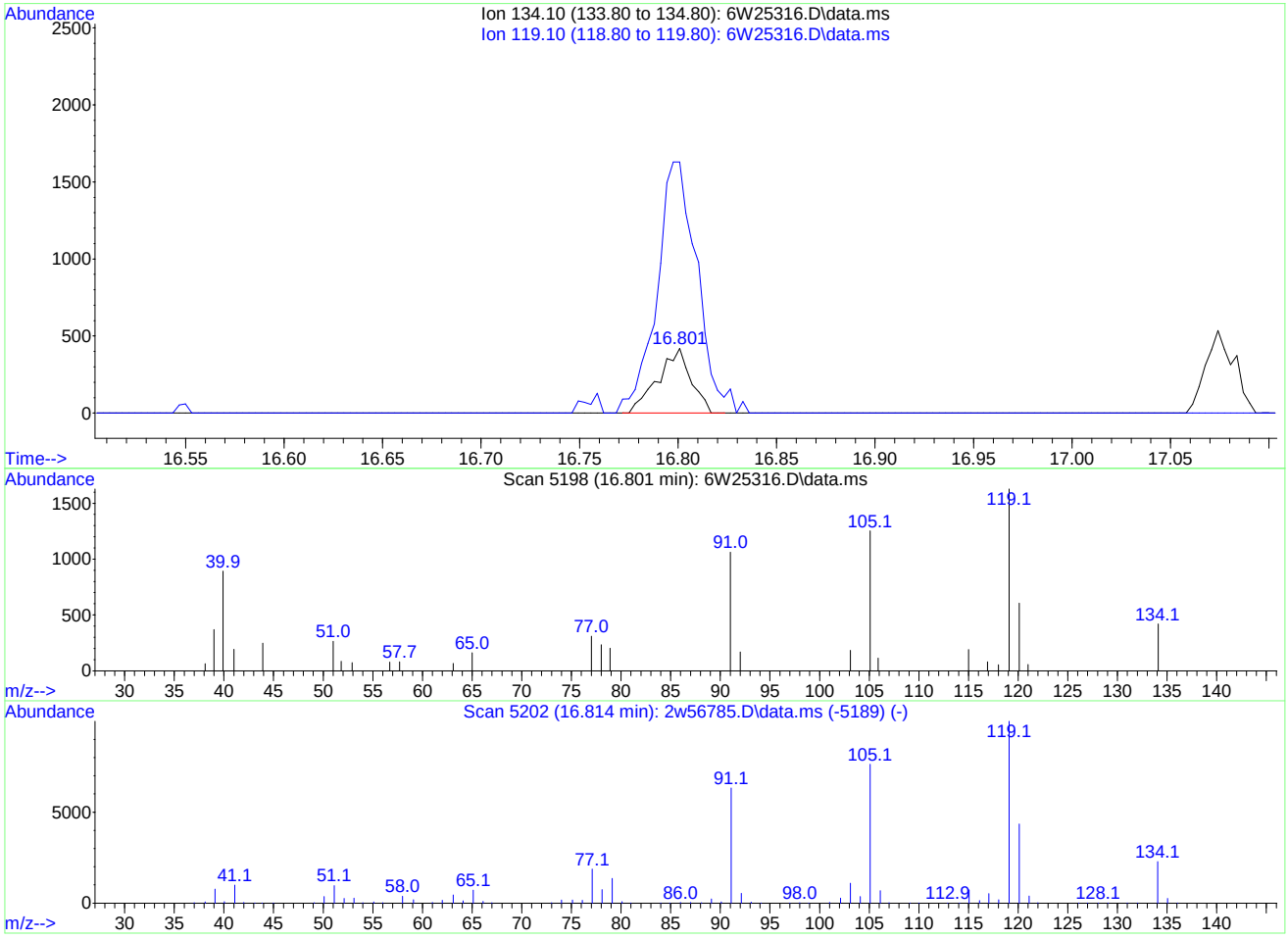
response 911

| Ion | Exp% | Act% |
|---|---|---|
| 104.10 | 100 | 100 |
| 78.10 | 38.40 | 0.00# |
| 103.10 | 47.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(95) TERT-BUTYLBENZENE (T)

16.801min (-0.003) 0.06PPBV m

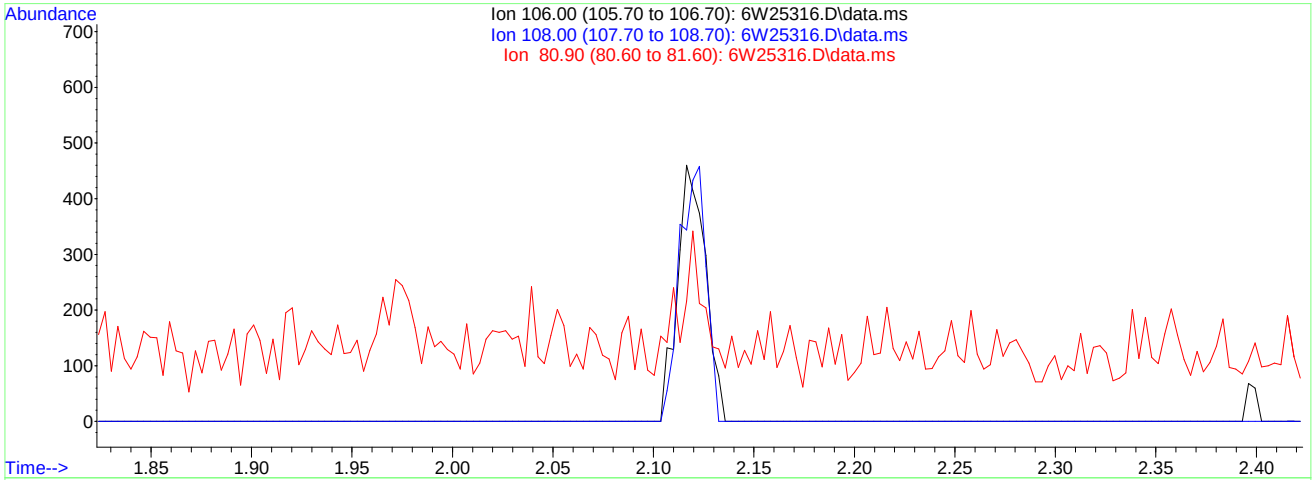
response 488

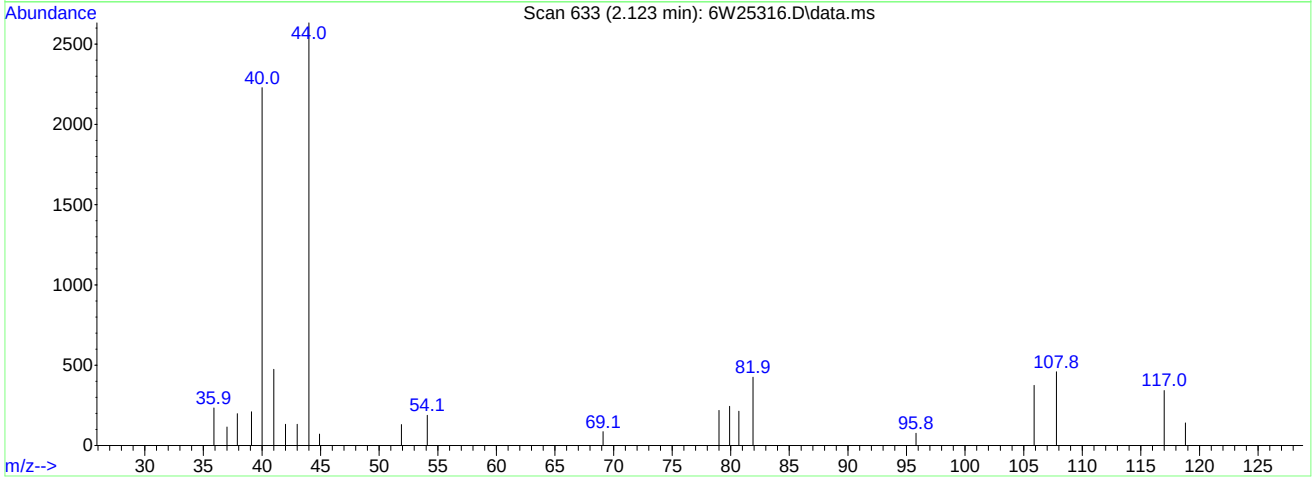
| Ion | Exp% | Act% |
|---|---|---|
| 134.10 | 100 | 100 |
| 119.10 | 443.70 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:40:50 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(29) BROMOETHENE (T)

2.123min (-2.123) 0.00PPBV

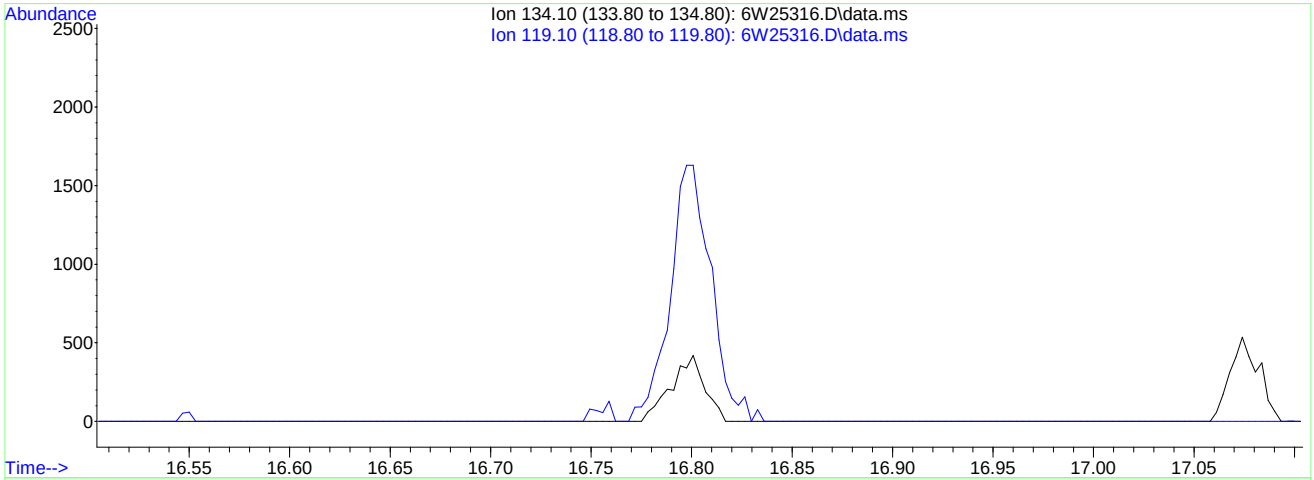
response 0

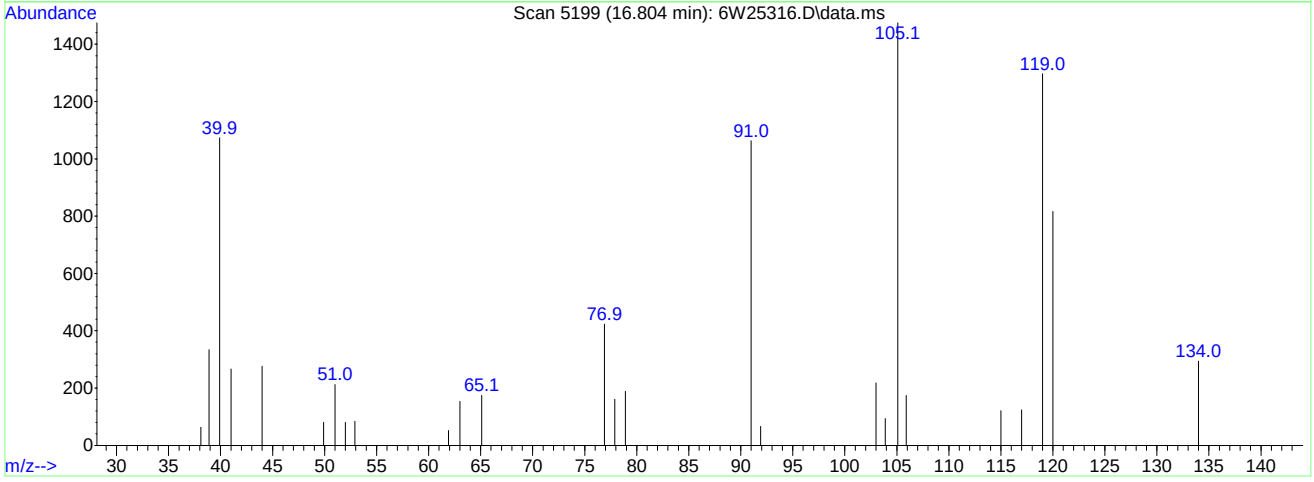
| Ion | Exp% | Act% |
|---|---|---|
| 106.00 | 100 | 0.00 |
| 108.00 | 94.60 | 0.00# |
| 80.90 | 10.40 | 0.00# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:40:50 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(95) TERT-BUTYLBENZENE (T)

16.804min (-16.804) 0.00PPBV

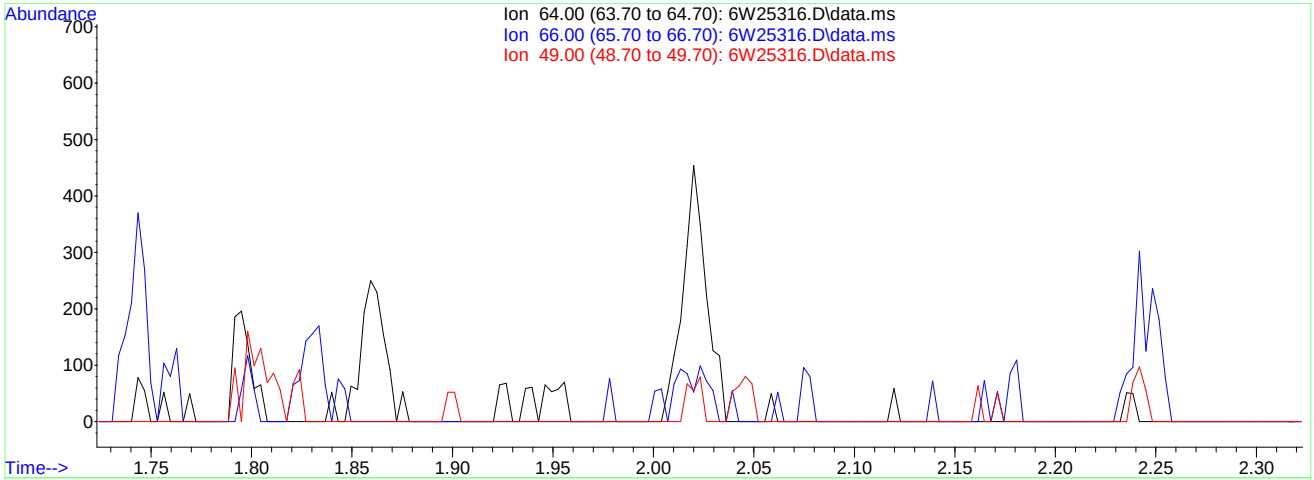
response 0

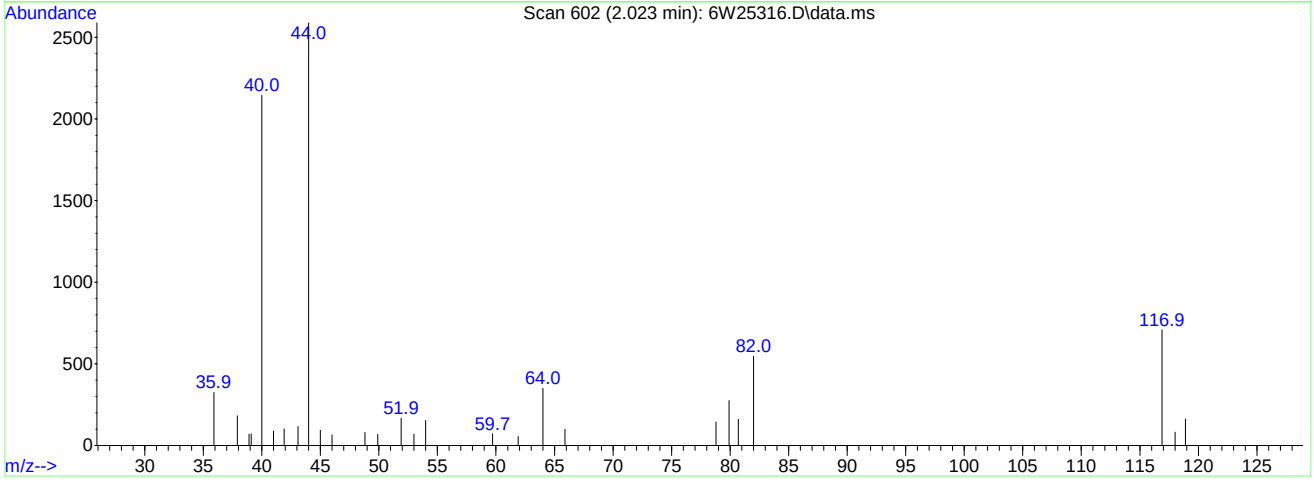
| Ion | Exp% | Act% |
|---|---|---|
| 134.10 | 100 | 0.00 |
| 119.10 | 443.70 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:40:50 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(15) CHLOROETHANE (T)

2.023min (-2.023) 0.00PPBV

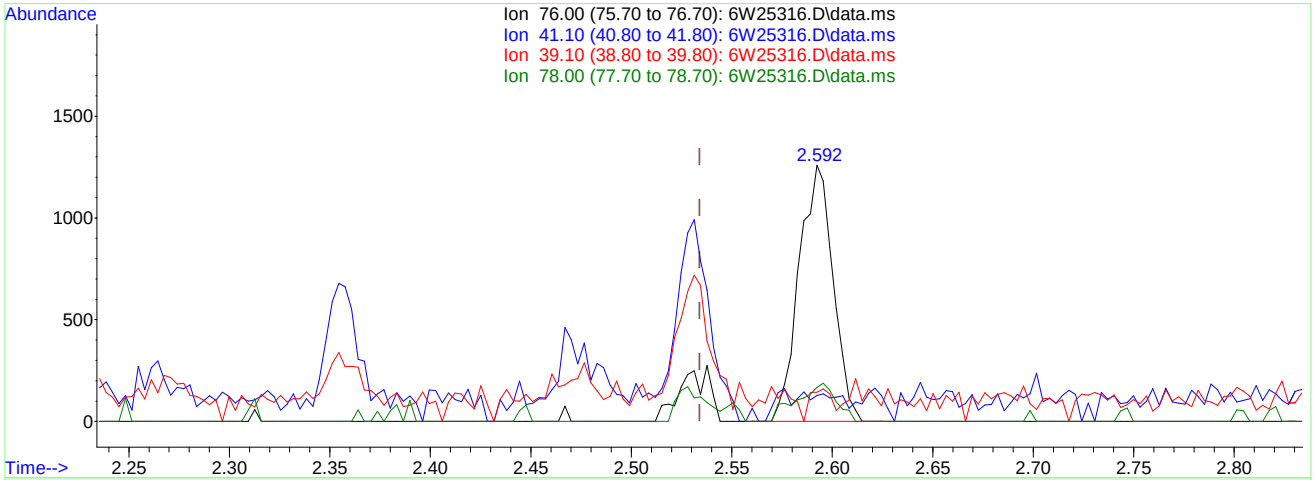
response 0

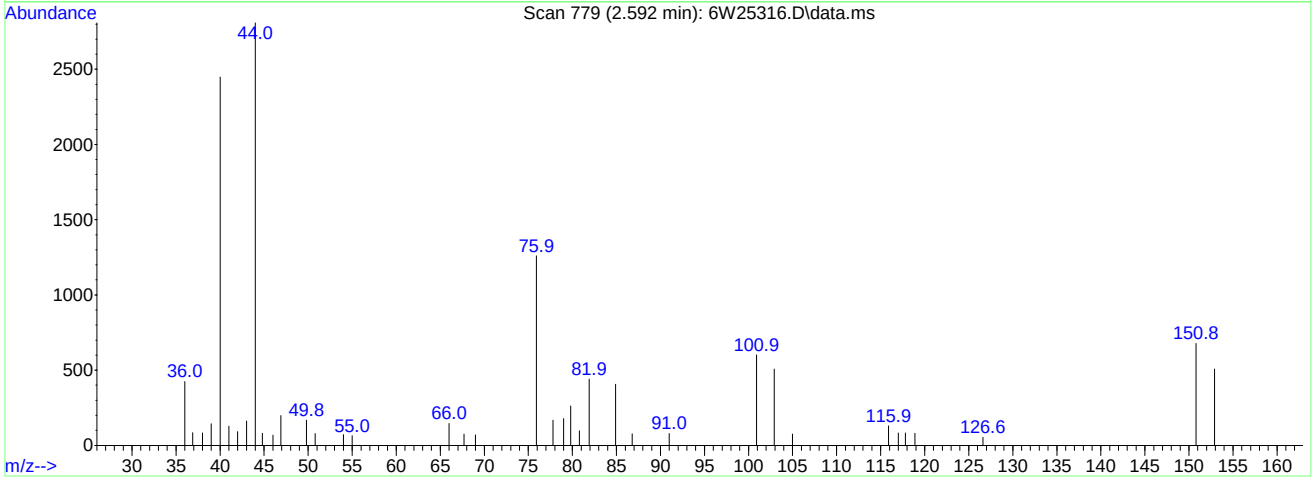
| Ion | Exp% | Act% |
|---|---|---|
| 64.00 | 100 | 0.00 |
| 66.00 | 33.90 | 0.00# |
| 49.00 | 29.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:40:50 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(32) 3-CHLOROPROPENE (T)

2.592min (+0.058) 0.31PPBV

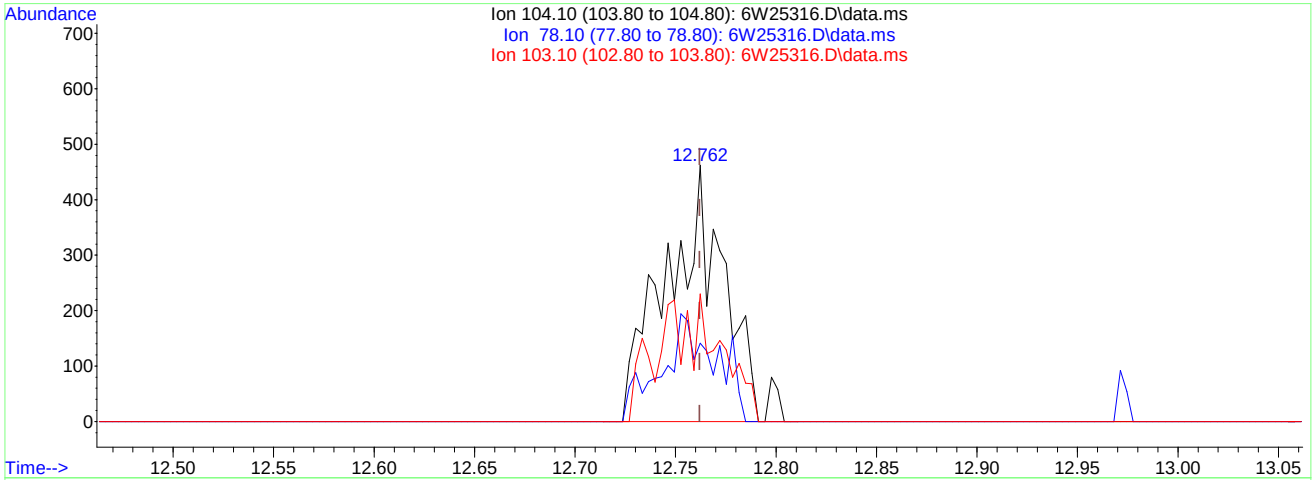
response 1479

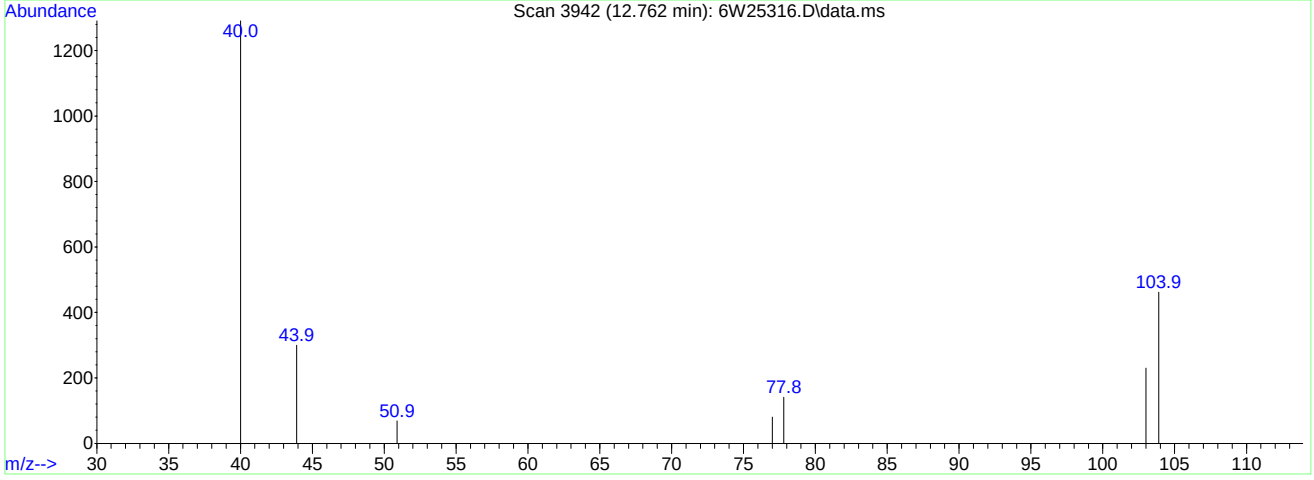
| Ion | Exp% | Act% |
|---|---|---|
| 76.00 | 100 | 100 |
| 41.10 | 184.90 | 0.00# |
| 39.10 | 118.20 | 0.00# |
| 78.00 | 32.40 | 0.00# |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:40:50 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(82) STYRENE (T)

12.762min (+0.000) 0.04PPBV

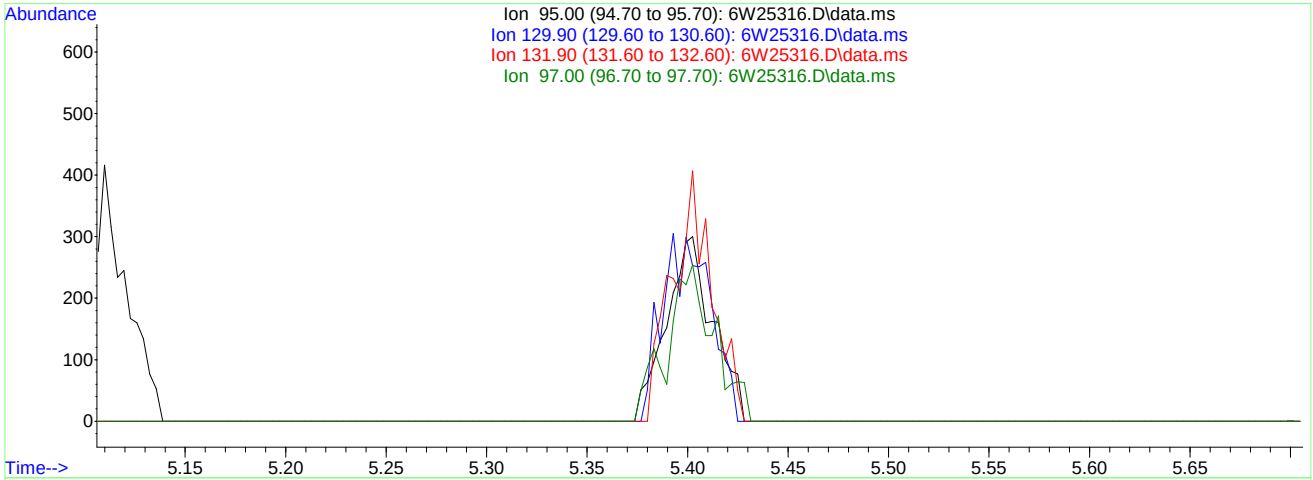
response 938

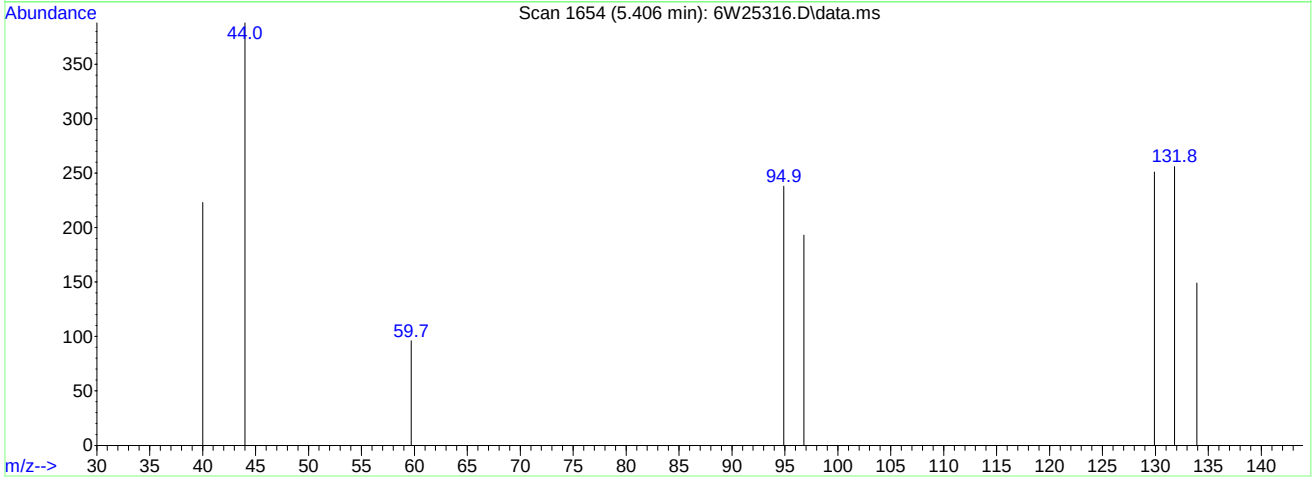
| Ion | Exp% | Act% |
|---|---|---|
| 104.10 | 100 | 100 |
| 78.10 | 38.40 | 0.00# |
| 103.10 | 47.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:40:50 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(55) TRICHLOROETHENE (T)

5.406min (-5.406) 0.00PPBV

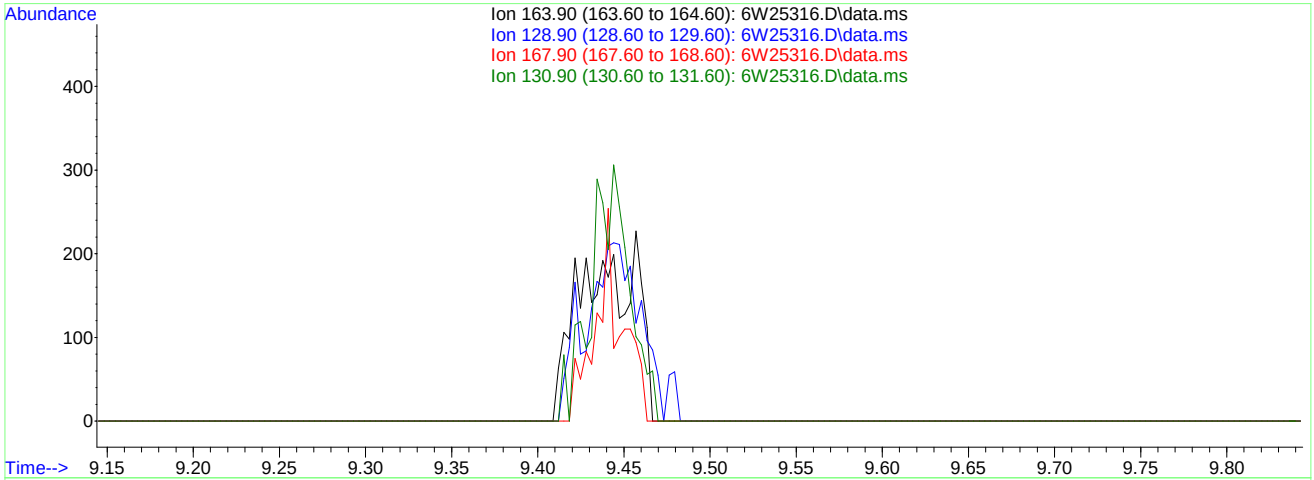
response 0

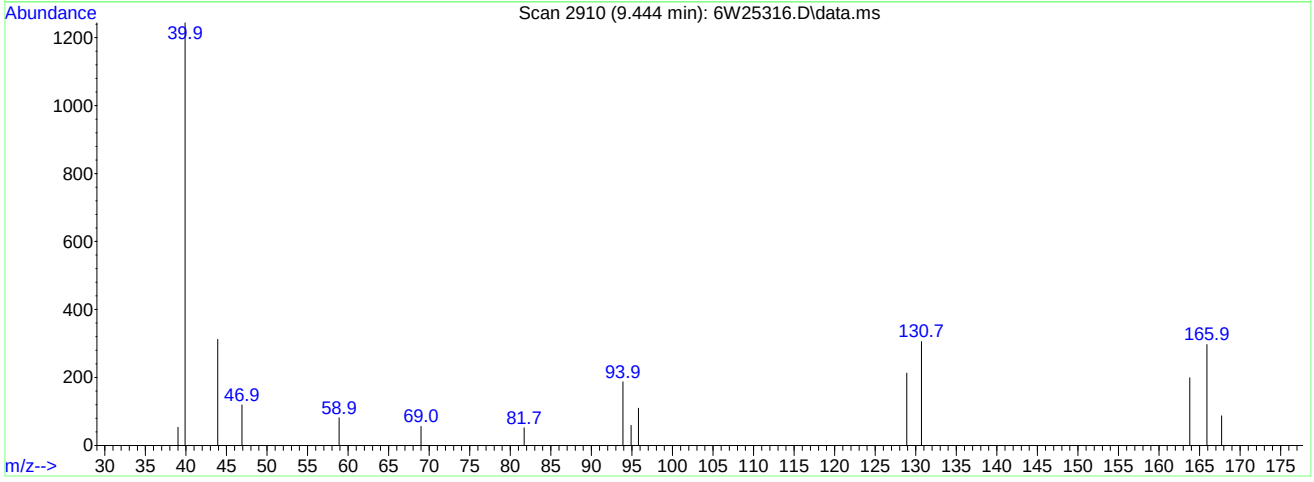
| Ion | Exp% | Act% |
|---|---|---|
| 95.00 | 100 | 0.00 |
| 129.90 | 104.00 | 0.00# |
| 131.90 | 99.70 | 0.00# |
| 97.00 | 64.10 | 0.00# |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:40:50 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(72) TETRACHLOROETHENE (T)

9.444min (-9.444) 0.00PPBV

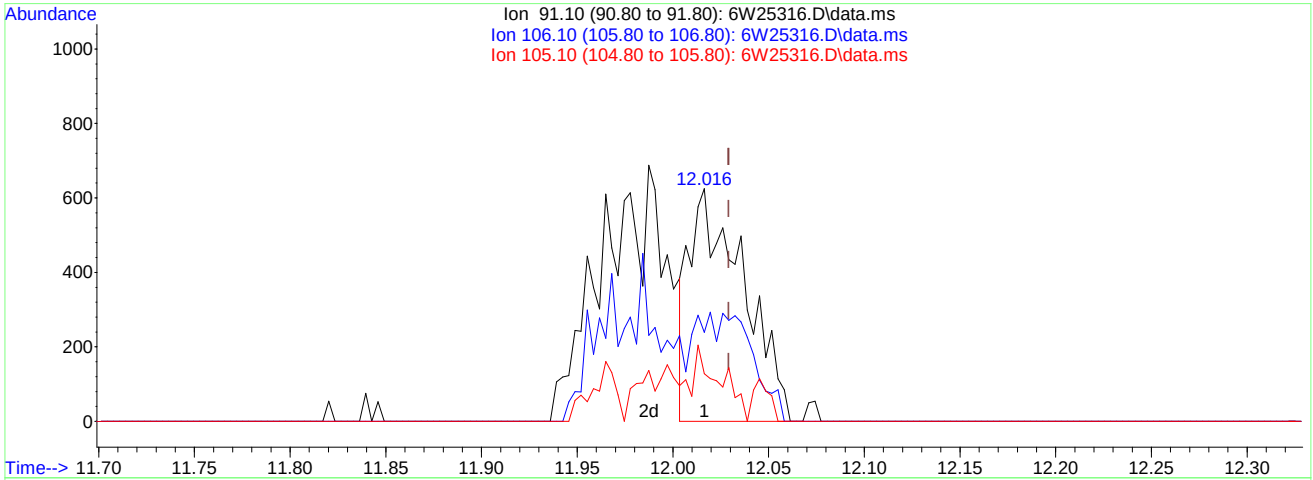
response 0

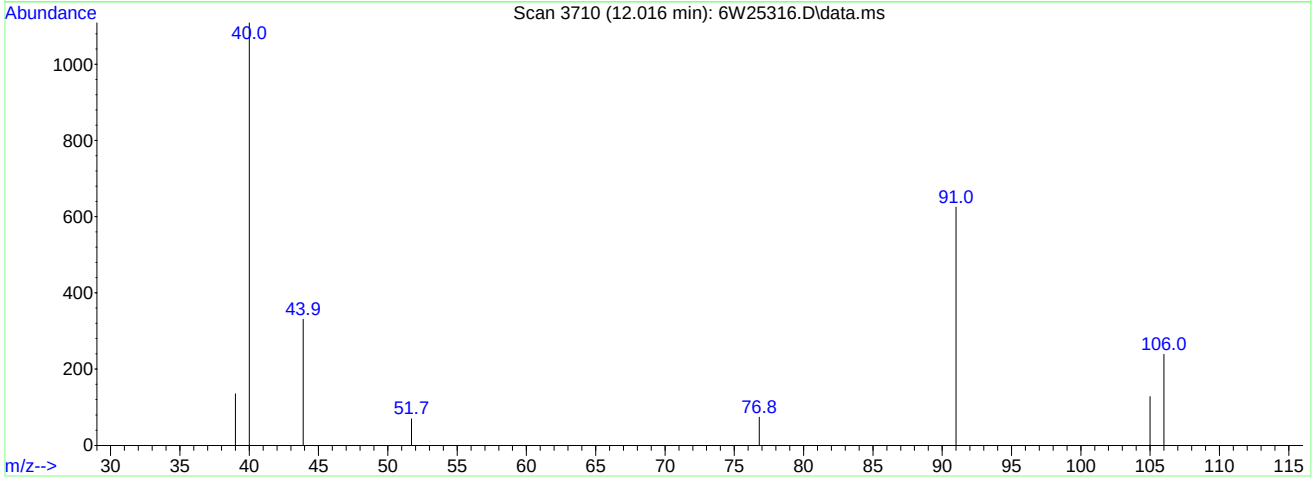
| Ion | Exp% | Act% |
|---|---|---|
| 163.90 | 100 | 0.00 |
| 128.90 | 90.00 | 0.00# |
| 167.90 | 60.70 | 0.00# |
| 130.90 | 86.30 | 0.00# |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:40:50 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(80) M,P-XYLENE (t)

12.016min (-0.013) 0.04PPBV

response 1228

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 0.00# |
| 105.10 | 23.60 | 0.00# |
| 0.00 | 0.00 | 0.00 |

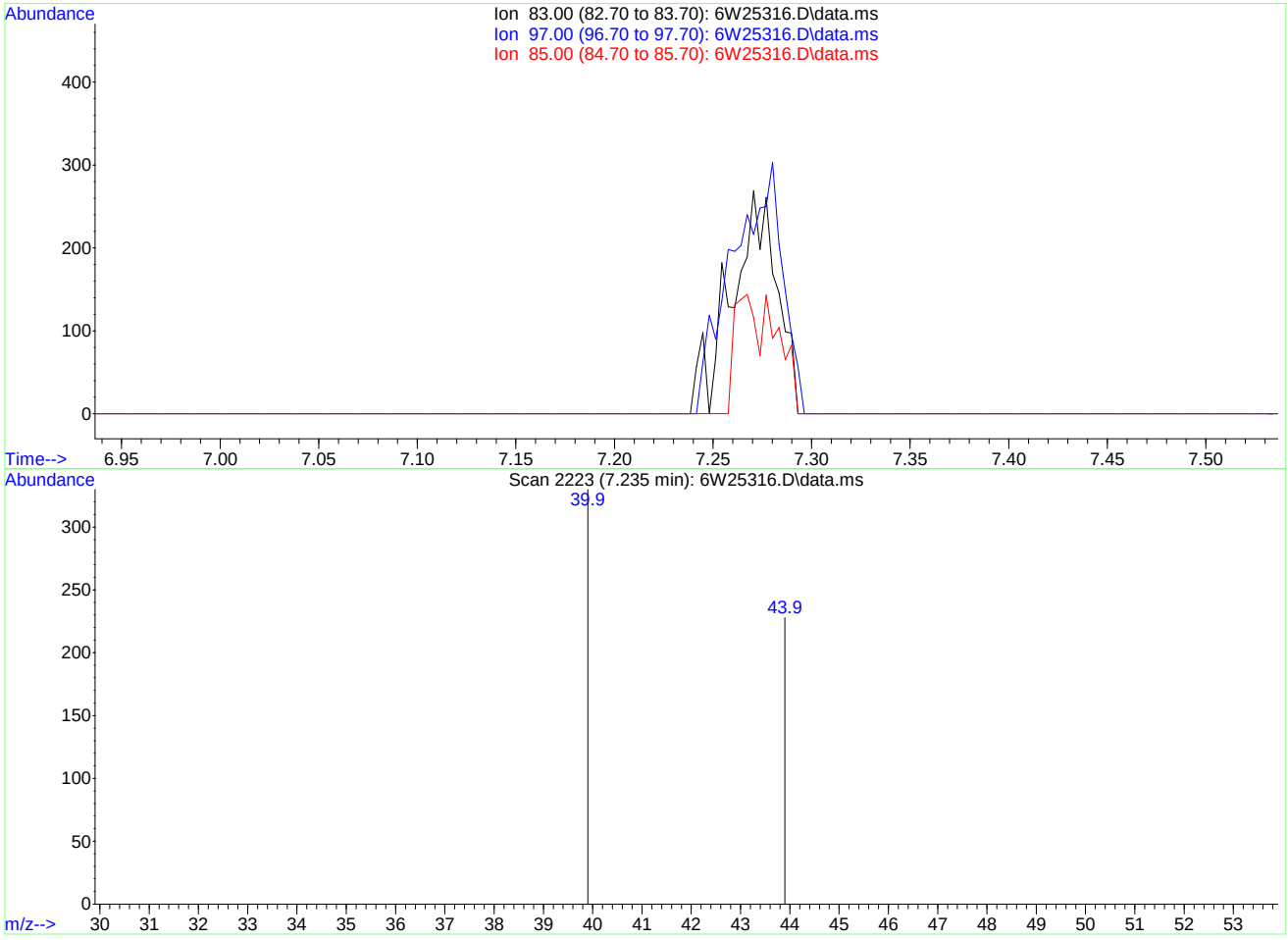


6W25316.D edits: M,P-XYLENE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 08 09:27:11 2022
Quant Method : C:\msdchem\1\methods\M6W1077_old.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed May 18 09:12:16 2022
Response via : Initial Calibration







TIC: 6W25316.D\data.ms

(69) 1,1,2-TRICHLOROETHANE (T)

7.236min (-7.236) 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 83.00 | 100 | 0.00 |
| 97.00 | 116.40 | 0.00# |
| 85.00 | 63.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |



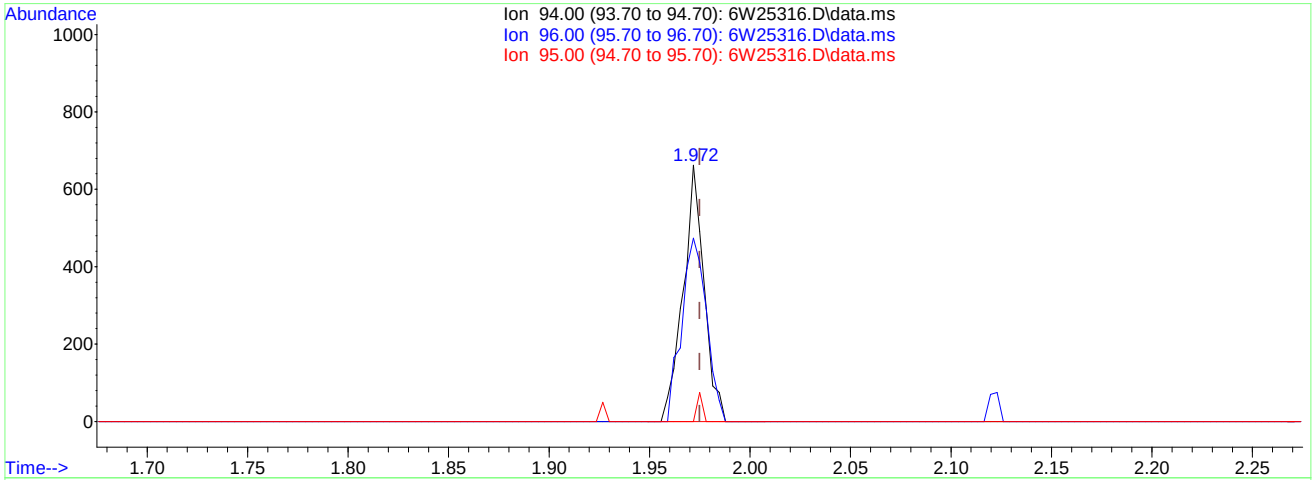


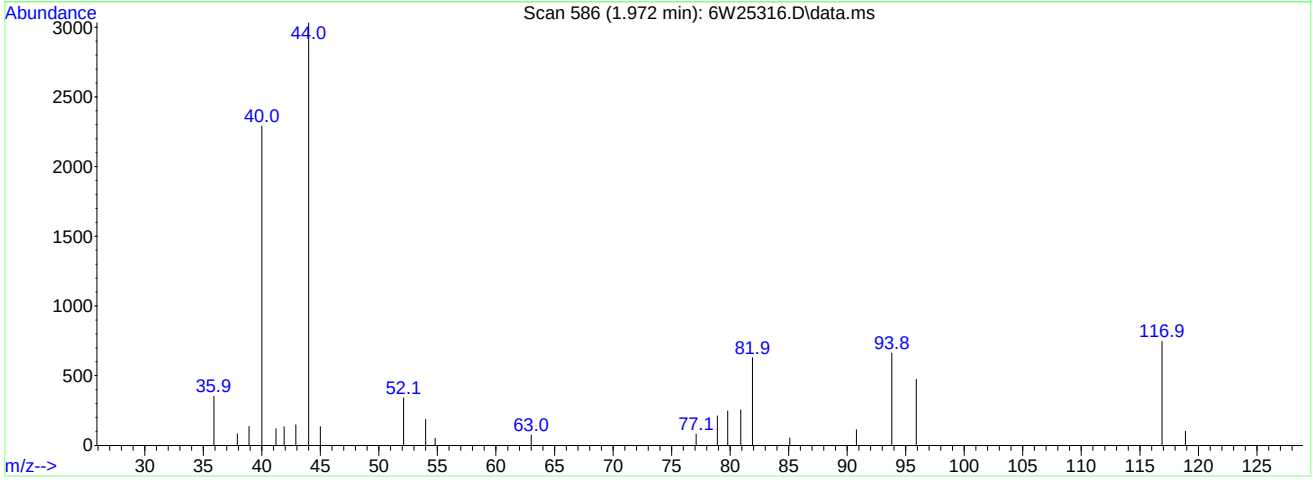
6W25316.D edits: 1,1,2-TRICHLOROETHANE

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:04:39 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(14) BROMOMETHANE (T)

1.972min (-0.003) 0.06PPBV m

response 482

| Ion | Exp% | Act% |
|---|---|---|
| 94.00 | 100 | 100 |
| 96.00 | 94.20 | 0.00# |
| 95.00 | 13.70 | 0.00# |
| 0.00 | 0.00 | 0.00 |



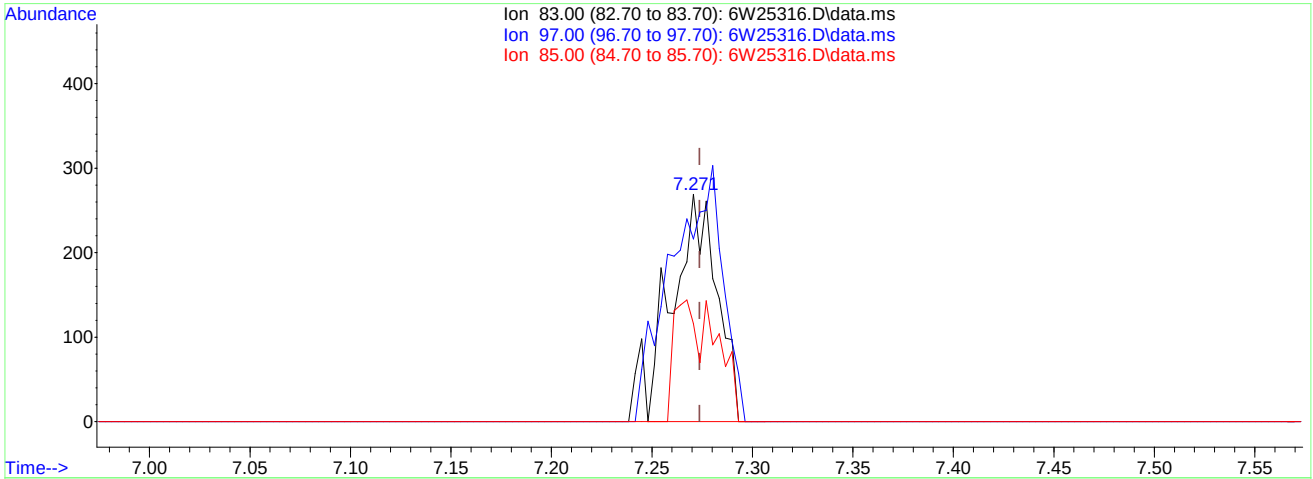


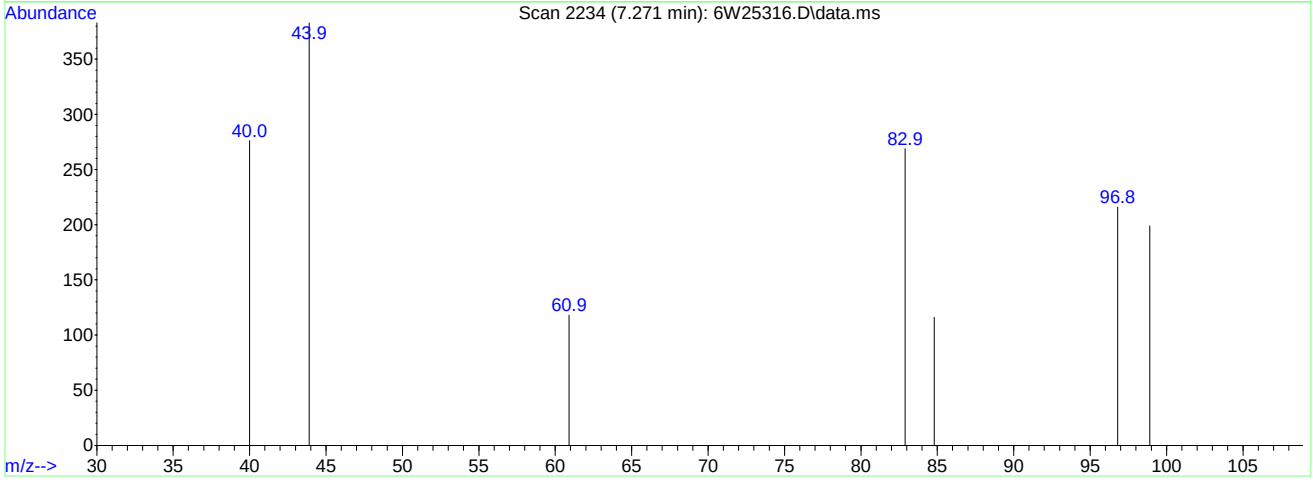
6W25316.D edits: BROMOMETHANE

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:04:39 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25316.D\data.ms

(69) 1,1,2-TRICHLOROETHANE (T)

7.271min (-0.003) 0.05PPBV m

response 407

| Ion | Exp% | Act% |
|---|---|---|
| 83.00 | 100 | 100 |
| 97.00 | 116.40 | 0.00# |
| 85.00 | 63.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |



6W25316.D edits: 1,1,2-TRICHLOROETHANE

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/22 10:23

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:15:13 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.412 | 128 | 45139 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.792 | 114 | 243010 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.605 | 117 | 215313 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.032 | 95 | 149069 | 9.87 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.721 | 65 | 532 | 0.14 | PPBV | # | 53 |
| 4) CHLORODIFLUOROMETHANE | 1.731 | 67 | 250m | 0.15 | PPBV | | |
| 5) CHLOROTRIFLUOROETHENE | 1.740 | 116 | 1084 | 0.12 | PPBV | # | 42 |
| 6) DICHLORODIFLUOROMETHANE | 1.756 | 85 | 2771m | 0.13 | PPBV | | |
| 7) PROPYLENE | 1.740 | 41 | 778 | 0.16 | PPBV | # | 76 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.795 | 65 | 2664 | 0.13 | PPBV | # | 29 |
| 9) FREON 114 | 1.827 | 85 | 2686 | 0.13 | PPBV | | 94 |
| 11) VINYL CHLORIDE | 1.863 | 62 | 1129 | 0.13 | PPBV | # | 50 |
| 13) N-BUTANE | 1.914 | 43 | 1882 | 0.15 | PPBV | # | 65 |
| 14) BROMOMETHANE | 1.972 | 94 | 976 | 0.14 | PPBV | # | 95 |
| 15) CHLOROETHANE | 2.020 | 64 | 668 | 0.16 | PPBV | # | 43 |
| 16) DICHLOROFLUOROMETHANE | 2.046 | 67 | 2416 | 0.13 | PPBV | # | 88 |
| 17) ACETONITRILE | 2.117 | 41 | 1202 | 0.16 | PPBV | # | 25 |
| 18) ACROLEIN | 2.152 | 56 | 277m | 0.09 | PPBV | | |
| 19) FREON 123 | 2.165 | 83 | 2269 | 0.12 | PPBV | # | 90 |
| 20) FREON 123A | 2.181 | 117 | 1495 | 0.14 | PPBV | | 99 |
| 21) TRICHLOROFLUOROMETHANE | 2.242 | 101 | 2615 | 0.12 | PPBV | # | 95 |
| 25) IODOMETHANE | 2.419 | 142 | 2475 | 0.12 | PPBV | # | 83 |
| 26) 1,1-DICHLOROETHYLENE | 2.444 | 96 | 976 | 0.12 | PPBV | # | 48 |
| 27) CARBON DISULFIDE | 2.592 | 76 | 2965 | 0.12 | PPBV | # | 9 |
| 29) BROMOETHENE | 2.120 | 106 | 905 | 0.12 | PPBV | # | 96 |
| 30) ACRYLONITRILE | 2.332 | 52 | 1010 | 0.16 | PPBV | # | 74 |
| 32) 3-CHLOROPROPENE | 2.531 | 76 | 538 | 0.13 | PPBV | # | 1 |
| 33) FREON 113 | 2.592 | 151 | 1470 | 0.11 | PPBV | # | 74 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.843 | 96 | 1045 | 0.12 | PPBV | # | 72 |
| 35) TERTIARY BUTYL ALCOHOL | 2.473 | 59 | 2796 | 0.14 | PPBV | # | 74 |
| 36) METHYL TERTIARY BUTYL ... | 2.972 | 73 | 3247 | 0.13 | PPBV | # | 48 |
| 37) TETRAHYDROFURAN | 3.750 | 72 | 314m | 0.09 | PPBV | | |
| 38) HEXANE | 3.467 | 57 | 1505 | 0.13 | PPBV | # | 76 |
| 40) 1,1-DICHLOROETHANE | 2.933 | 63 | 2019 | 0.13 | PPBV | # | 87 |
| 41) METHYL ETHYL KETONE | 3.123 | 72 | 527 | 0.12 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.329 | 96 | 810 | 0.11 | PPBV | # | 52 |
| 43) DIISOPROPYL ETHER | 3.477 | 59 | 371m | 0.11 | PPBV | | |
| 44) ETHYL ACETATE | 3.483 | 61 | 277m | 0.11 | PPBV | | |
| 45) METHYL ACRYLATE | 3.467 | 55 | 1643 | 0.11 | PPBV | # | 65 |
| 46) CHLOROFORM | 3.489 | 83 | 1844 | 0.12 | PPBV | # | 89 |
| 47) 2,4-DIMETHYLPENTANE | 4.020 | 57 | 1664 | 0.13 | PPBV | # | 76 |
| 48) 1,1,1-TRICHLOROETHANE | 4.104 | 97 | 1793 | 0.12 | PPBV | | 98 |
| 49) CARBON TETRACHLORIDE | 4.560 | 117 | 1822 | 0.12 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 3.940 | 62 | 1345 | 0.14 | PPBV | # | 49 |
| 51) BENZENE | 4.438 | 78 | 2783 | 0.13 | PPBV | | 84 |
| 53) CYCLOHEXANE | 4.660 | 84 | 1007 | 0.11 | PPBV | # | 63 |
| 54) 2,3-DIMETHYLPENTANE | 4.936 | 71 | 584 | 0.12 | PPBV | # | 58 |
| 55) TRICHLOROETHENE | 5.399 | 95 | 1094 | 0.11 | PPBV | # | 76 |
| 56) 1,2-DICHLOROPROPANE | 5.152 | 63 | 972 | 0.12 | PPBV | # | 41 |
| 57) DIBROMOMETHANE | 5.107 | 174 | 1106 | 0.12 | PPBV | # | 77 |
| 58) ETHYL ACRYLATE | 5.290 | 55 | 1764 | 0.10 | PPBV | # | 73 |
| 59) BROMODICHLOROMETHANE | 5.348 | 83 | 1731 | 0.11 | PPBV | | 97 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.499 | 57 | 4489 | 0.13 | PPBV | # | 94 |
| 61) 1,4-DIOXANE | 5.489 | 88 | 329m | 0.06 | PPBV | | |
| 62) HEPTANE | 5.833 | 43 | 1637 | 0.13 | PPBV | # | 80 |
| 63) METHYL METHACRYLATE | 5.731 | 69 | 794 | 0.09 | PPBV | # | 39 |
| 64) METHYL ISOBUTYL KETONE | 6.518 | 58 | 713 | 0.10 | PPBV | # | 61 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.386 | 75 | 1361 | 0.11 | PPBV | # | 35 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:15:13 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

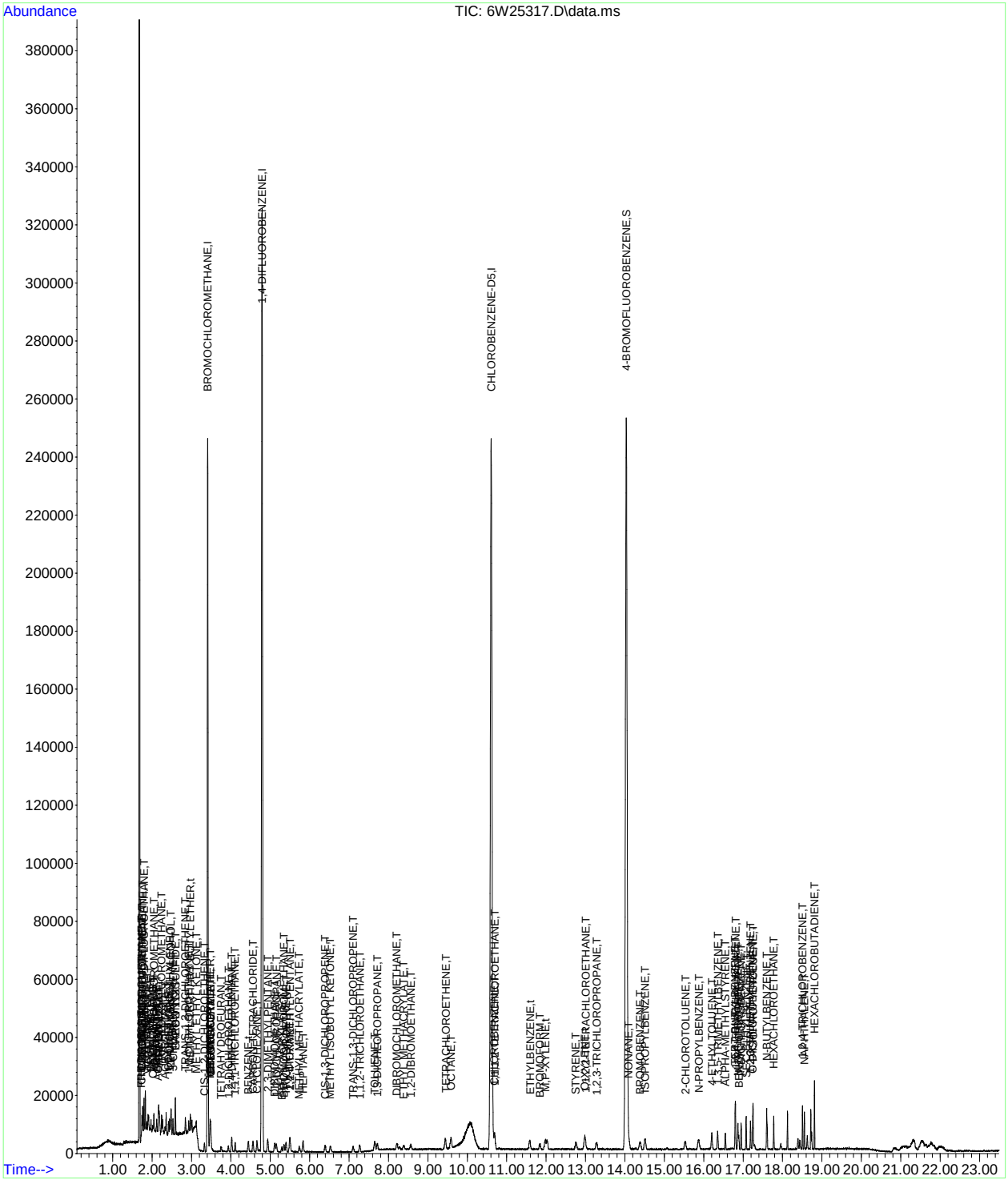
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 66) | TOLUENE | 7.647 | 91 | 3067 | 0.11 | PPBV | | 98 |
| 67) | 1,3-DICHLOROPROPANE | 7.718 | 76 | 1562 | 0.12 | PPBV | # | 49 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.097 | 75 | 1334 | 0.11 | PPBV | # | 44 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.277 | 83 | 870 | 0.11 | PPBV | # | 68 |
| 71) | ETHYL METHACRYLATE | 8.377 | 69 | 959 | 0.07 | PPBV | # | 49 |
| 72) | TETRACHLOROETHENE | 9.454 | 164 | 1137 | 0.11 | PPBV | # | 83 |
| 73) | DIBROMOCHLOROMETHANE | 8.206 | 129 | 1536 | 0.10 | PPBV | # | 85 |
| 74) | 1,2-DIBROMOETHANE | 8.573 | 107 | 1668 | 0.11 | PPBV | # | 98 |
| 75) | OCTANE | 9.586 | 43 | 2483 | 0.14 | PPBV | # | 79 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.695 | 131 | 1189 | 0.10 | PPBV | # | 88 |
| 78) | CHLOROBENZENE | 10.682 | 112 | 2608 | 0.12 | PPBV | | 99 |
| 79) | ETHYLBENZENE | 11.598 | 91 | 4009 | 0.11 | PPBV | | 96 |
| 80) | M,P-XYLENE | 11.984 | 91 | 6035 | 0.22 | PPBV | # | 60 |
| 81) | O-XYLENE | 12.975 | 91 | 3125 | 0.11 | PPBV | # | 85 |
| 82) | STYRENE | 12.750 | 104 | 2073 | 0.10 | PPBV | | 96 |
| 83) | NONANE | 14.090 | 43 | 2407 | 0.13 | PPBV | # | 53 |
| 84) | BROMOFORM | 11.840 | 173 | 1339 | 0.09 | PPBV | # | 92 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 13.004 | 83 | 2386 | 0.11 | PPBV | # | 95 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.286 | 75 | 1809m | 0.11 | PPBV | | |
| 88) | ISOPROPYLBENZENE | 14.508 | 120 | 1085 | 0.10 | PPBV | | 91 |
| 89) | BROMOBENZENE | 14.383 | 77 | 2357 | 0.12 | PPBV | | 88 |
| 90) | 2-CHLOROTOLUENE | 15.537 | 126 | 995 | 0.10 | PPBV | # | 42 |
| 91) | N-PROPYLBENZENE | 15.875 | 120 | 1190 | 0.11 | PPBV | # | 62 |
| 92) | 4-ETHYLTOLUENE | 16.206 | 105 | 4187 | 0.10 | PPBV | # | 97 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.354 | 105 | 3498 | 0.10 | PPBV | # | 92 |
| 94) | ALPHA-METHYLSTYRENE | 16.550 | 118 | 1426 | 0.08 | PPBV | | 96 |
| 95) | TERT-BUTYLBENZENE | 16.794 | 134 | 884 | 0.11 | PPBV | | 75 |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.810 | 105 | 3604 | 0.10 | PPBV | | 92 |
| 97) | BENZYL CHLORIDE | 16.891 | 91 | 2438 | 0.08 | PPBV | # | 60 |
| 98) | M-DICHLOROBENZENE | 16.868 | 146 | 2734 | 0.11 | PPBV | | 94 |
| 99) | P-DICHLOROBENZENE | 16.949 | 146 | 2477 | 0.10 | PPBV | | 99 |
| 100) | O-DICHLOROBENZENE | 17.238 | 146 | 2479 | 0.11 | PPBV | | 97 |
| 101) | SEC-BUTYLBENZENE | 17.081 | 134 | 1120 | 0.11 | PPBV | | 94 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.187 | 105 | 3512 | 0.10 | PPBV | # | 91 |
| 103) | P-ISOPROPYLTOLUENE | 17.254 | 134 | 1163 | 0.10 | PPBV | | 97 |
| 104) | N-BUTYLBENZENE | 17.598 | 134 | 1163 | 0.10 | PPBV | | 90 |
| 105) | HEXACHLOROETHANE | 17.778 | 117 | 1220 | 0.09 | PPBV | | 93 |
| 106) | HEXACHLOROBUTADIENE | 18.810 | 225 | 2111 | 0.12 | PPBV | | 96 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.505 | 180 | 2285 | 0.10 | PPBV | | 98 |
| 108) | NAPHTHALENE | 18.556 | 128 | 5603 | 0.09 | PPBV | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:15:13 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V6W1077-IC1077
**Lab FileID:** 6W25317.D
**Injection Time:** 08/04/22 18:39

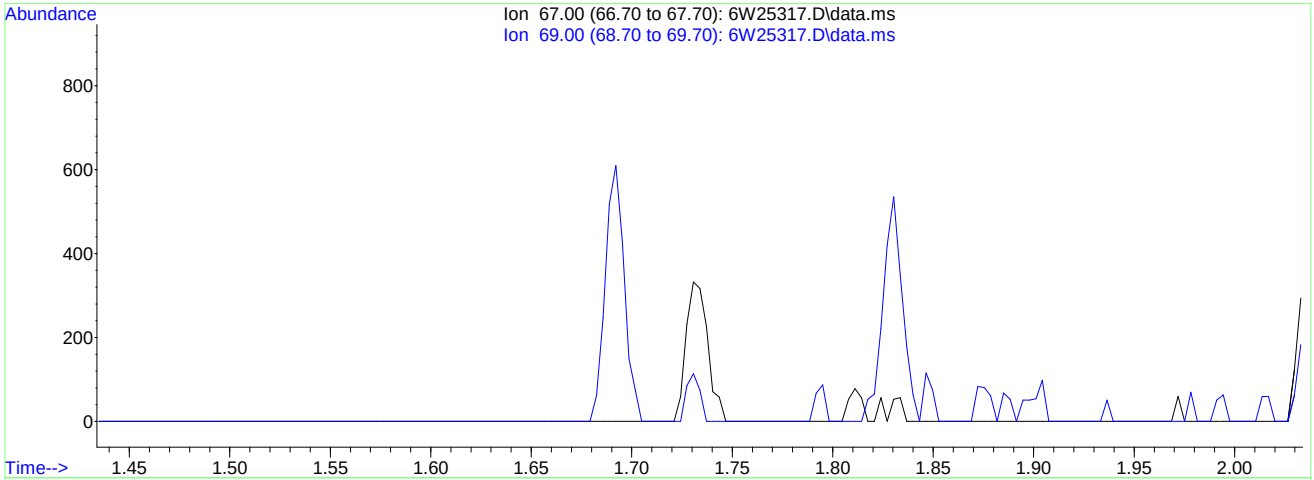
**Method:** TO-15
**Analyst approved:** 08/05/22 10:02 Thomas Hilbig
**Supervisor approved:** 08/08/22 10:23 Kanya Veerawat

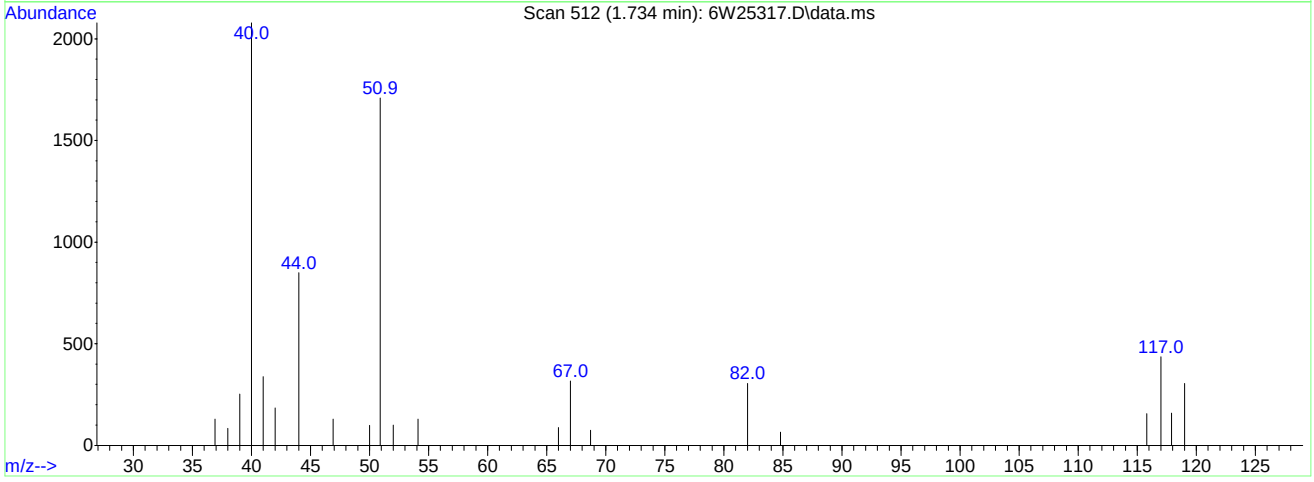
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Chlorodifluoromethane | 75-45-6 | | 1.73 | Missed peak |
| Dichlorodifluoromethane | 75-71-8 | | 1.76 | Overlapping peak |
| Acrolein | 107-02-8 | | 2.15 | Missed peak |
| Di-Isopropyl ether | 108-20-3 | | 3.48 | Missed peak |
| Ethyl Acetate | 141-78-6 | | 3.48 | Missed peak |
| Tetrahydrofuran | 109-99-9 | | 3.75 | Missed peak |
| 1,4-Dioxane | 123-91-1 | | 5.49 | Missed peak |
| 1,2,3-Trichloropropane | 96-18-4 | | 13.29 | Split peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25317.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.734min (-1.734) 0.00PPBV

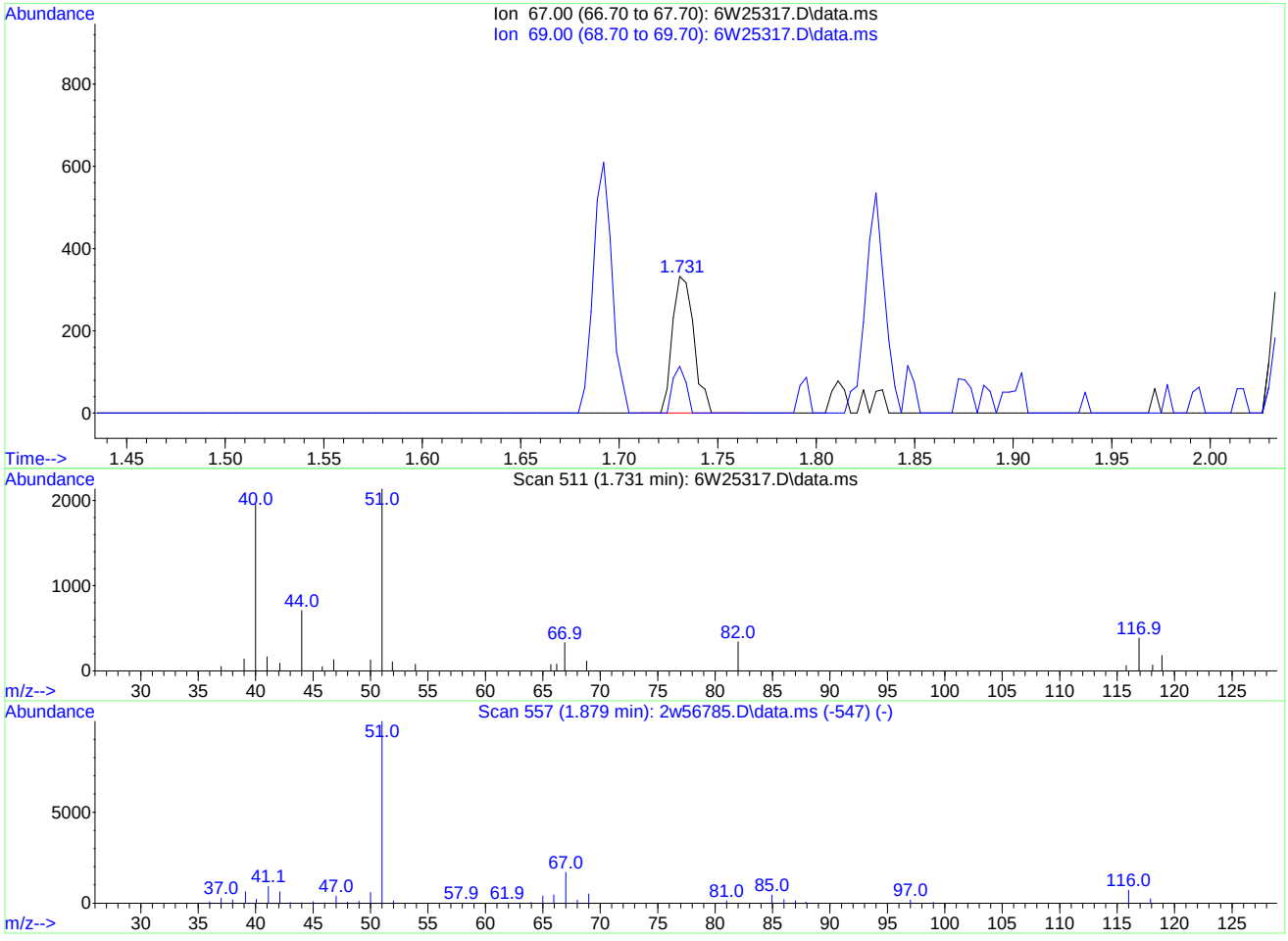
response 0

| Ion | Exp% | Act% |
|---|---|---|
| 67.00 | 100 | 0.00 |
| 69.00 | 36.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25317.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.731min (-0.003) 0.15PPBV m

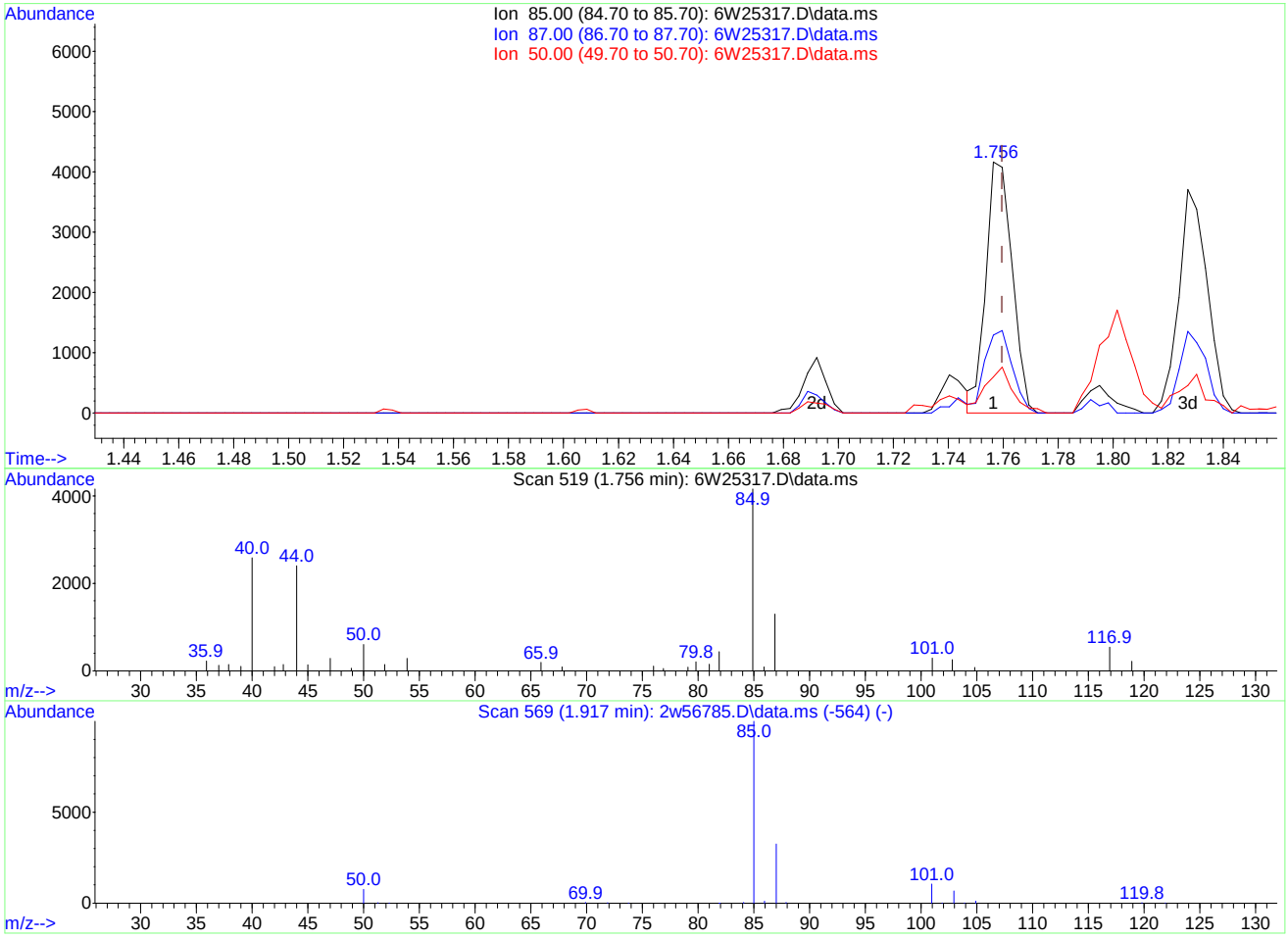
response 250

| Ion | Exp% | Act% |
|---|---|---|
| 67.00 | 100 | 100 |
| 69.00 | 36.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25317.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.756min (-0.003) 0.13PPBV m

response 2771

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 38.79# |
| 50.00 | 9.30 | 27.64# |
| 0.00 | 0.00 | 0.00 |



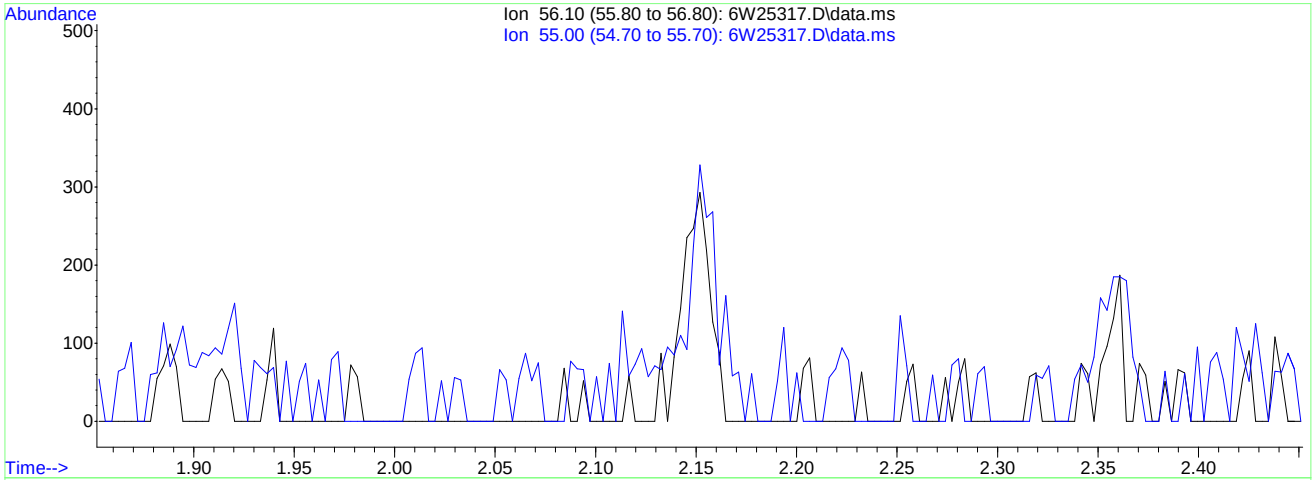


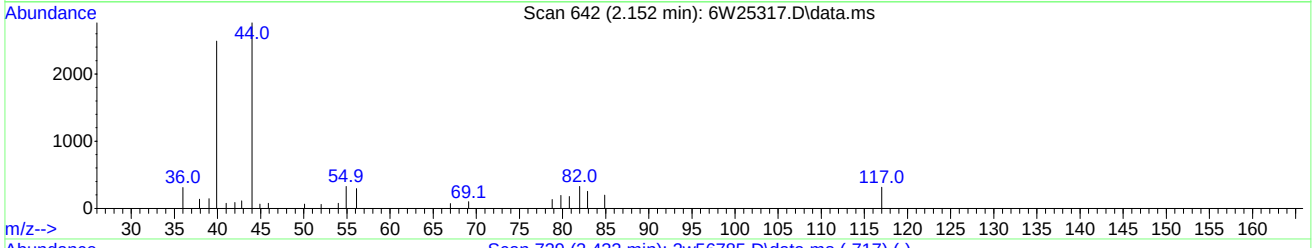
6W25317.D edits: DICHLORODIFLUOROMETHANE

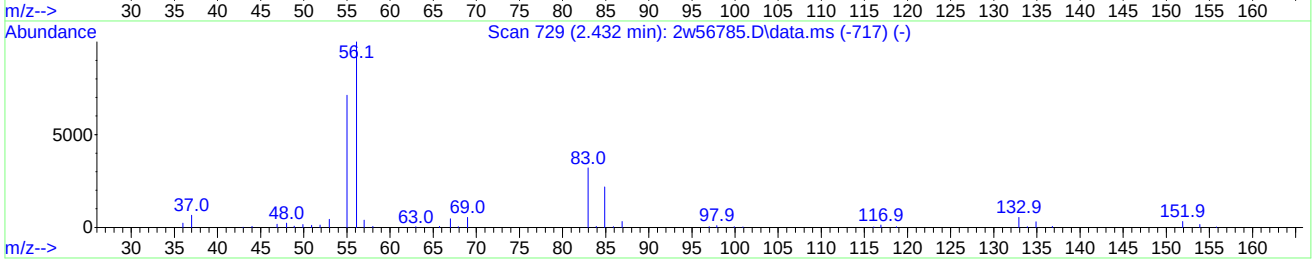
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25317.D\data.ms

(18) ACROLEIN (T)

2.152min (-2.152) 0.00PPBV

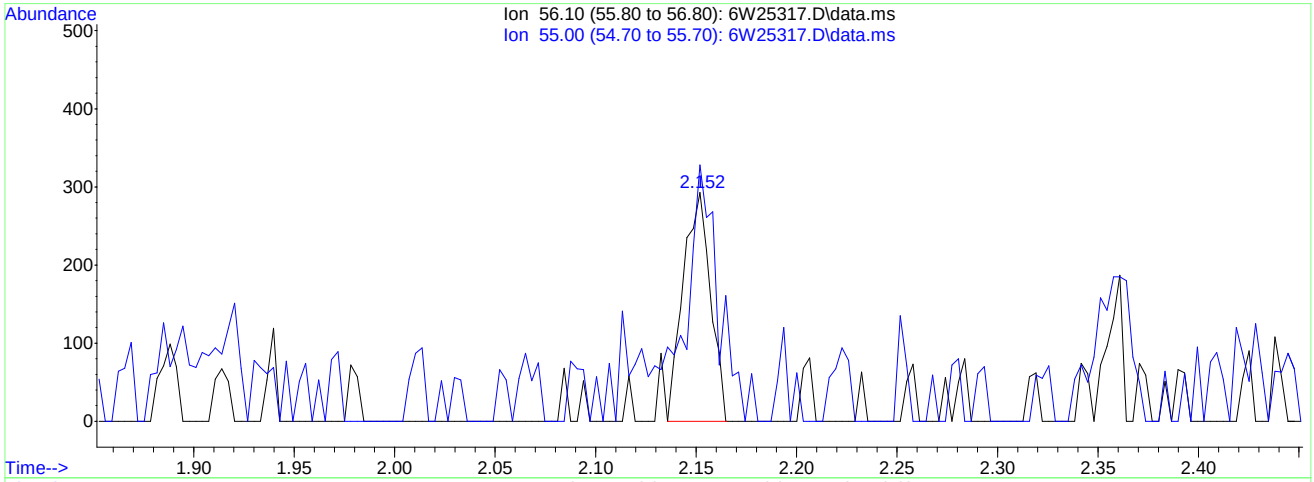
response 0

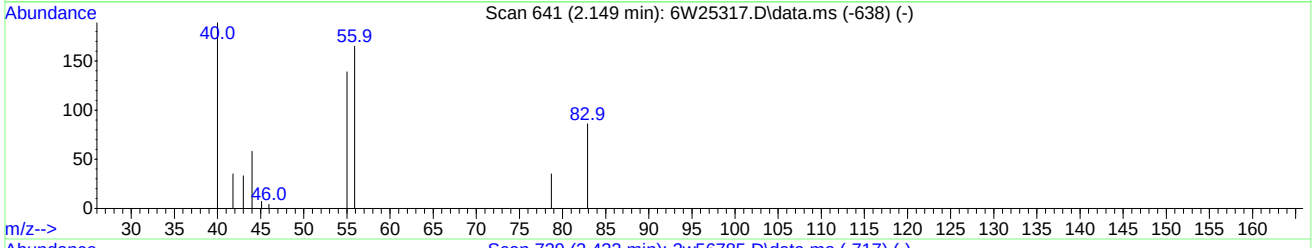
| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 0.00 |
| 55.00 | 70.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

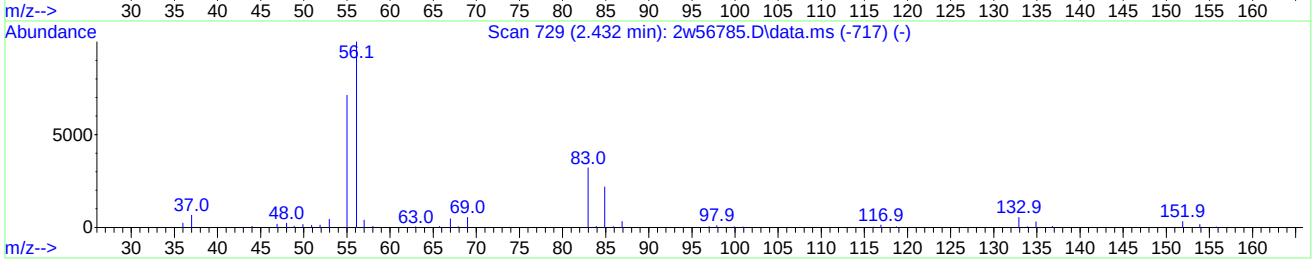
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25317.D\data.ms

(18) ACROLEIN (T)

2.152min (+0.000) 0.09PPBV m

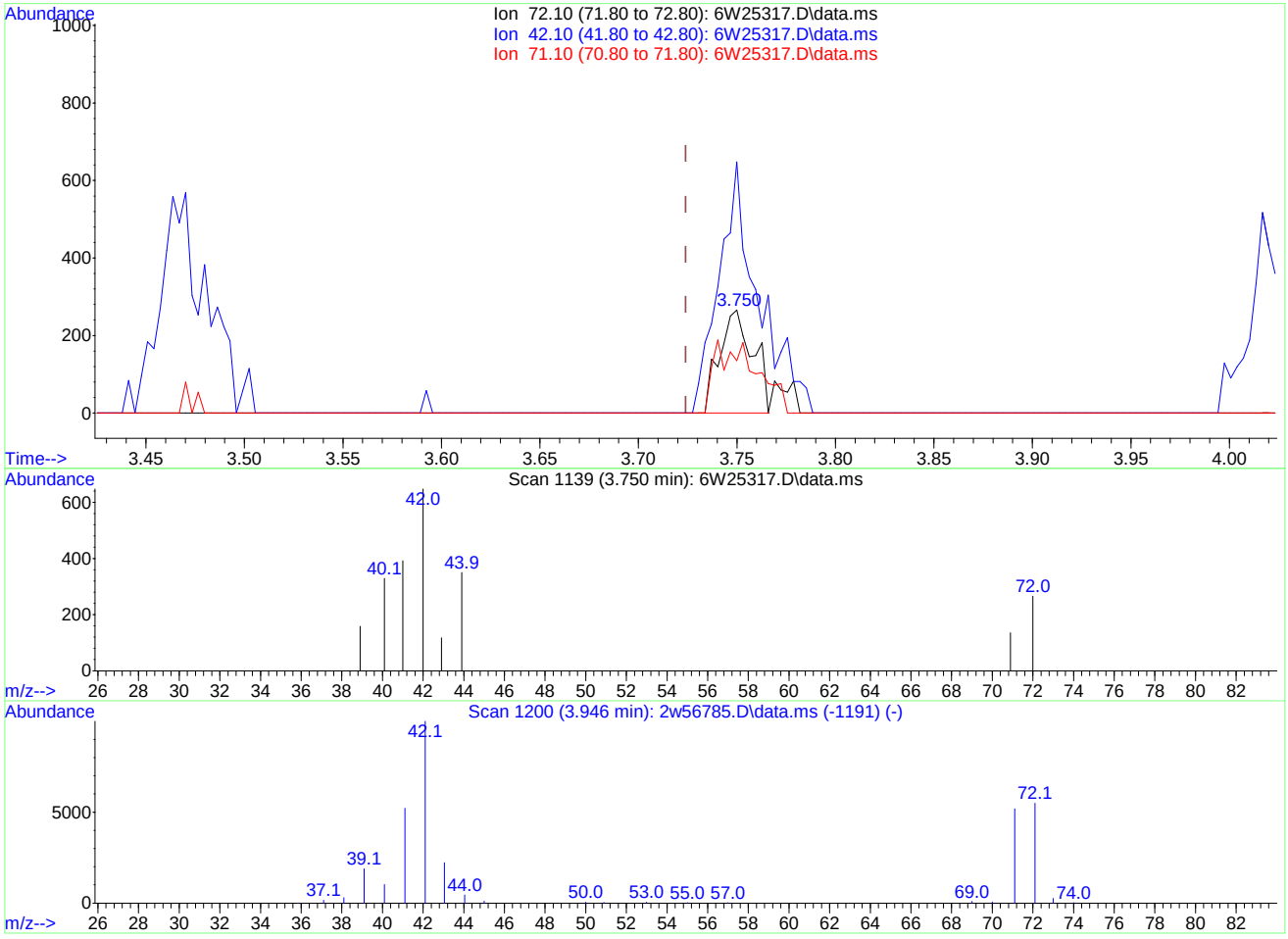
response 277

| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 100 |
| 55.00 | 70.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25317.D\data.ms

(37) TETRAHYDROFURAN (T)

3.750min (+0.026) 0.09PPBV m

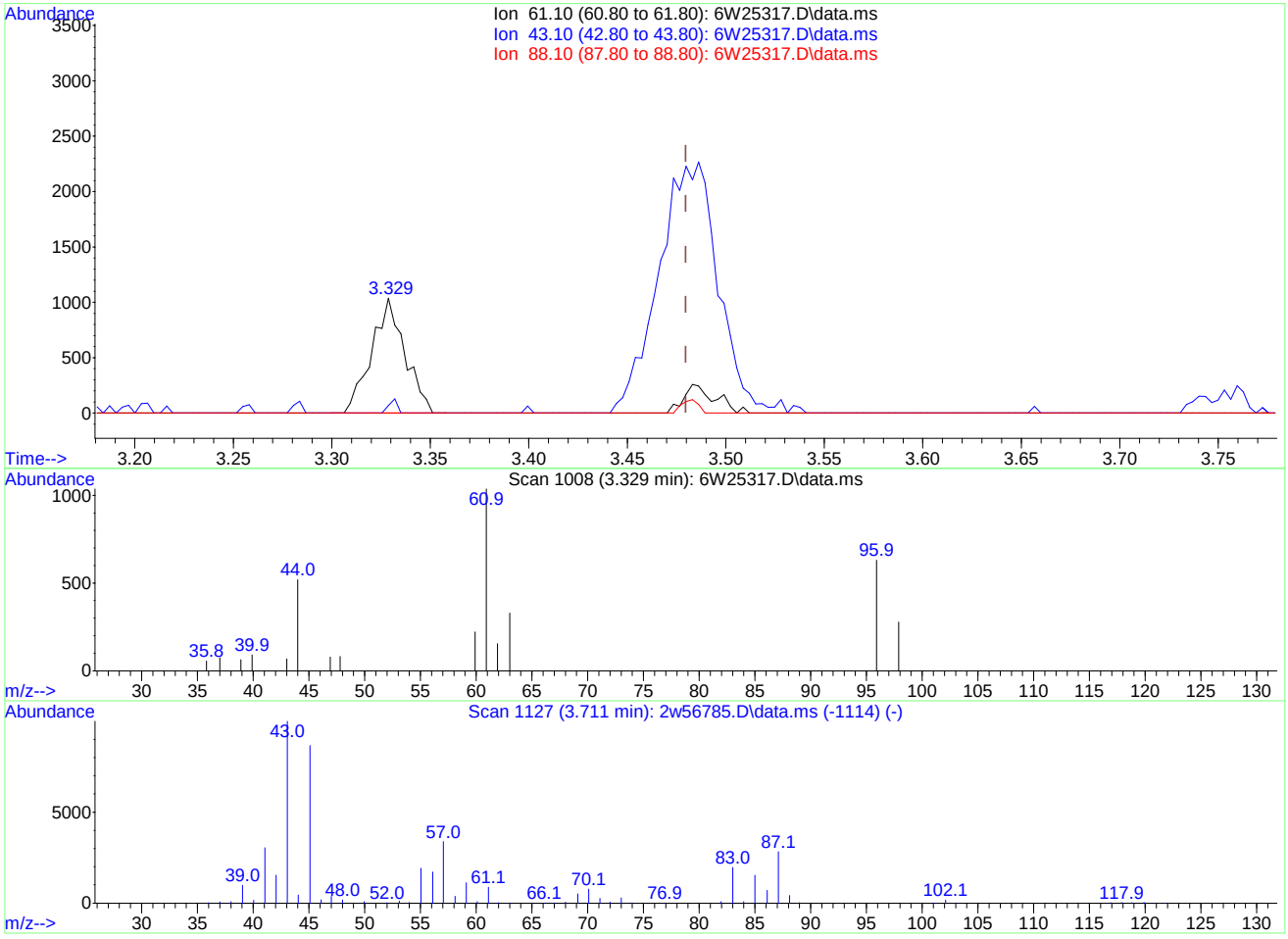
response 314

| Ion | Exp% | Act% |
|---|---|---|
| 72.10 | 100 | 100 |
| 42.10 | 186.30 | 0.00# |
| 71.10 | 93.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25317.D\data.ms

(44) ETHYL ACETATE (T)

3.329min (-0.151) 0.49PPBV

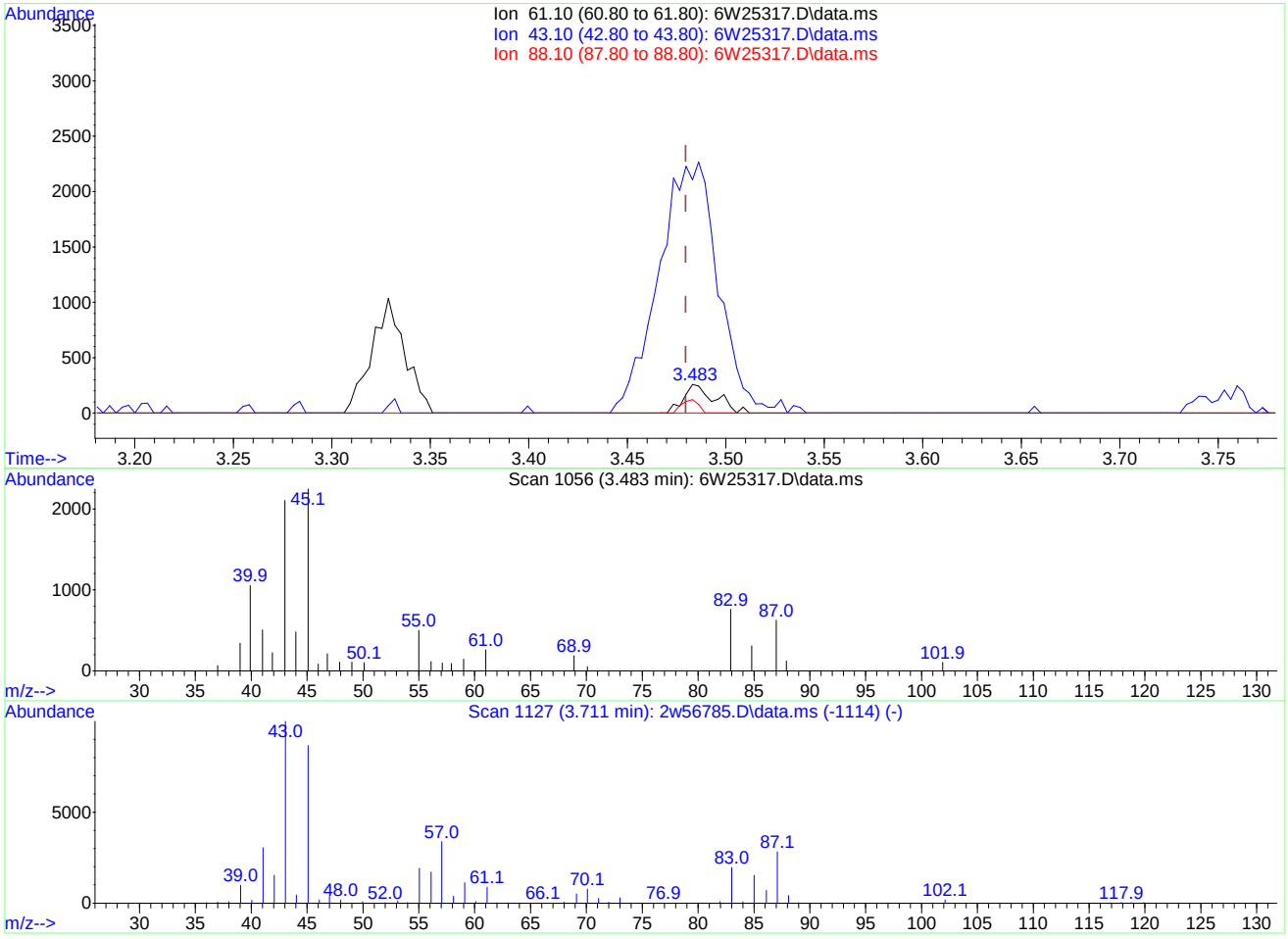
response 1217

| Ion | Exp% | Act% |
|---|---|---|
| 61.10 | 100 | 100 |
| 43.10 | 1232.70 | 0.00# |
| 88.10 | 48.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25317.D\data.ms

(44) ETHYL ACETATE (T)

3.483min (+0.003) 0.11PPBV m

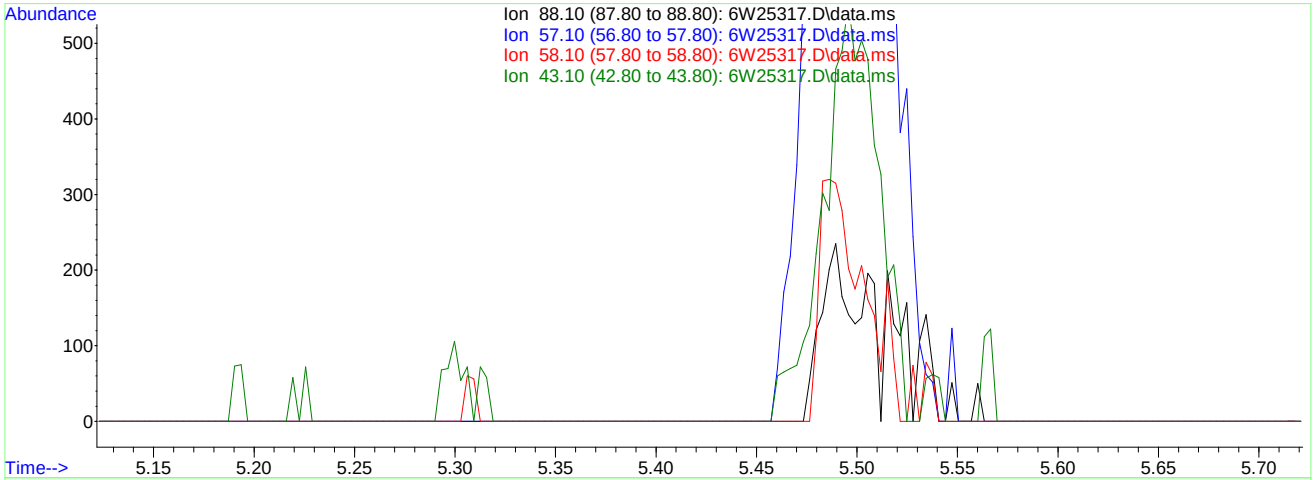
response 277

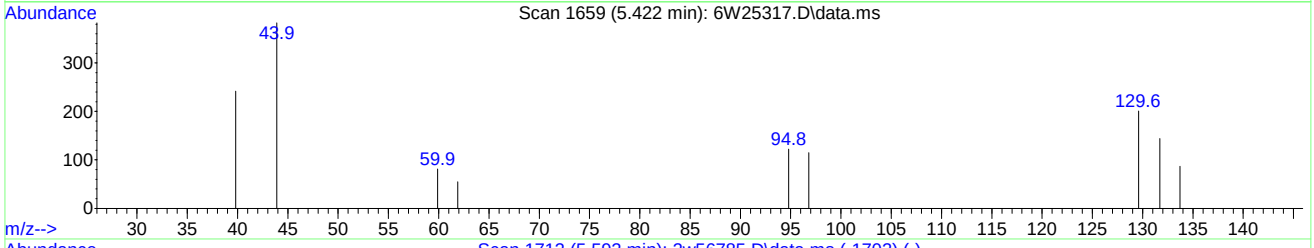
| Ion | Exp% | Act% |
|---|---|---|
| 61.10 | 100 | 100 |
| 43.10 | 1232.70 | 0.00# |
| 88.10 | 48.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |

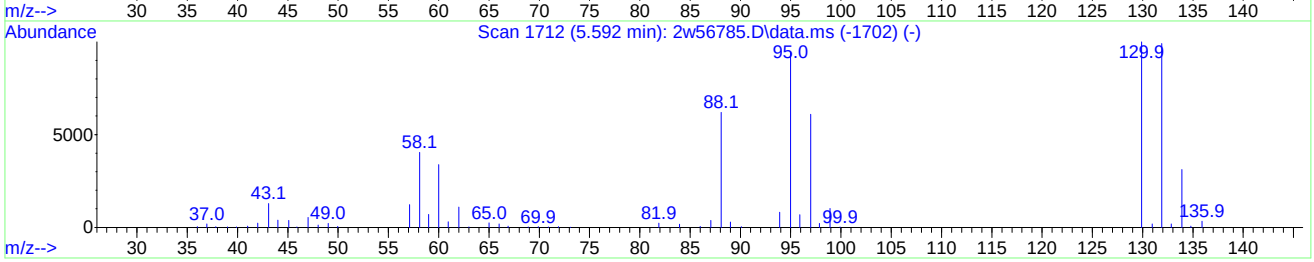
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25317.D\data.ms

(61) 1,4-DIOXANE (T)

5.422min (-5.422) 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 88.10 | 100 | 0.00 |
| 57.10 | 18.70 | 0.00# |
| 58.10 | 62.60 | 0.00# |
| 43.10 | 19.20 | 0.00# |







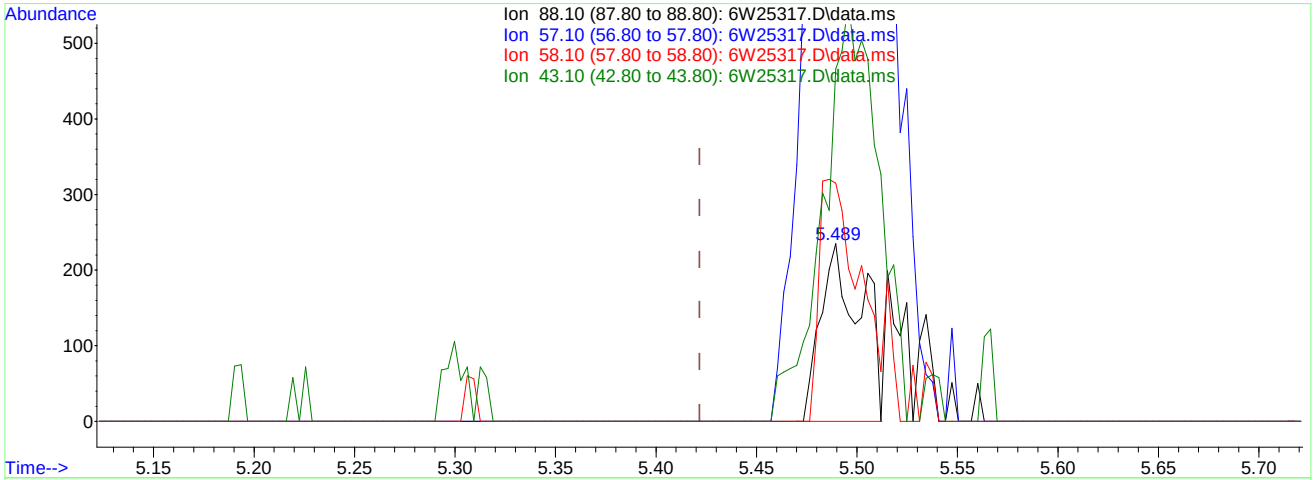


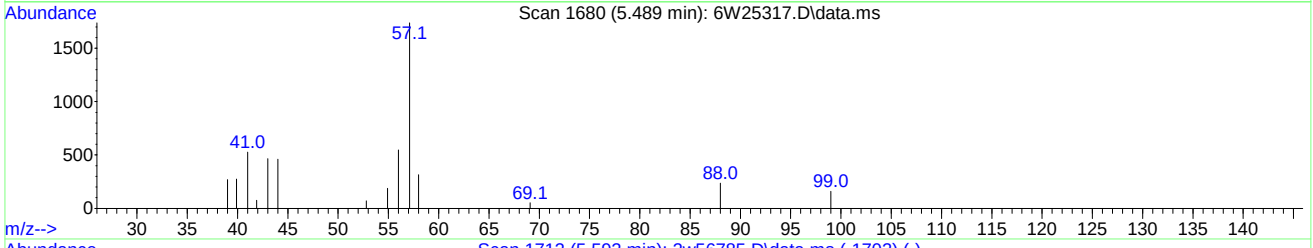
77.13.10

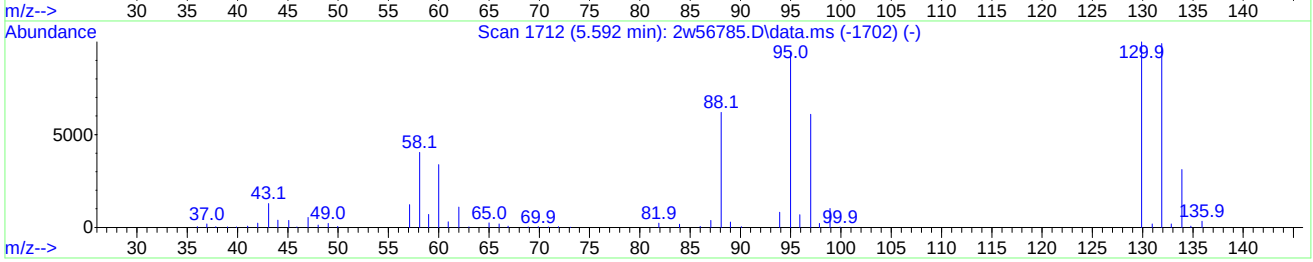
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25317.D\data.ms

(61) 1,4-DIOXANE (T)

5.489min (+0.068) 0.06PPBV m

response 329

| Ion | Exp% | Act% |
|---|---|---|
| 88.10 | 100 | 100 |
| 57.10 | 18.70 | 0.00# |
| 58.10 | 62.60 | 0.00# |
| 43.10 | 19.20 | 0.00# |





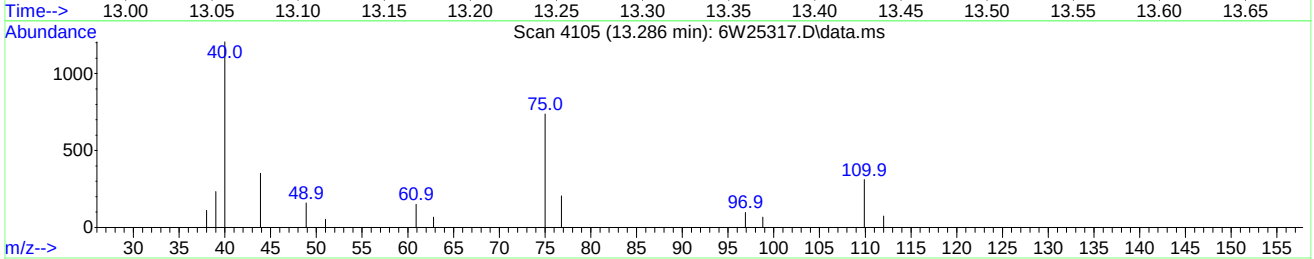
6W25317.D edits: 1,4-DIOXANE

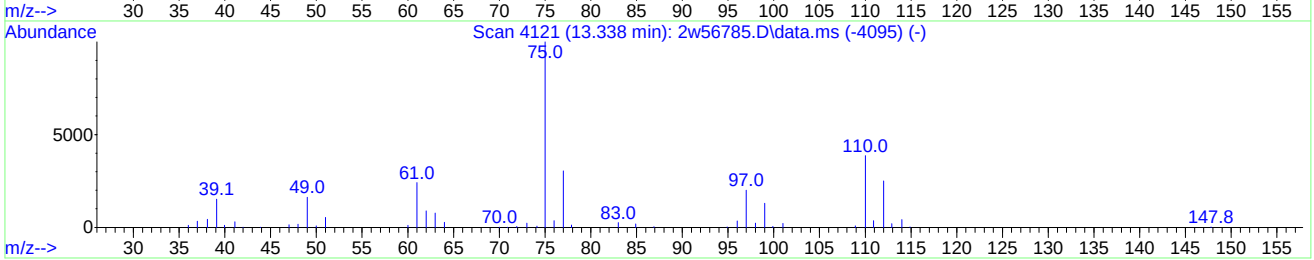
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25317.D\data.ms

(86) 1,2,3-TRICHLOROPROPANE (T)

13.286min (+0.003) 0.11PPBV m

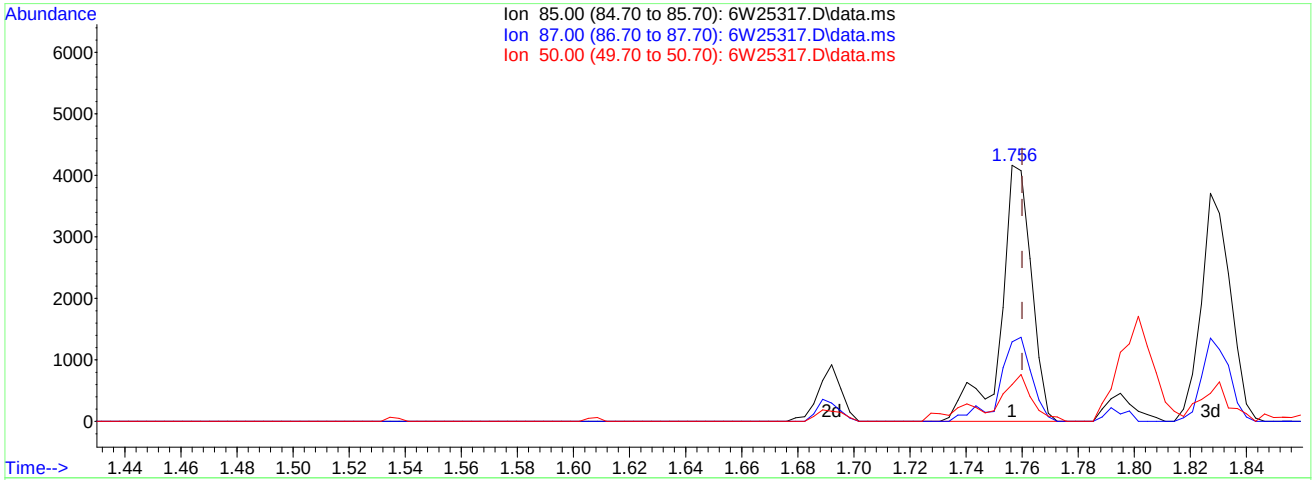
response 1809

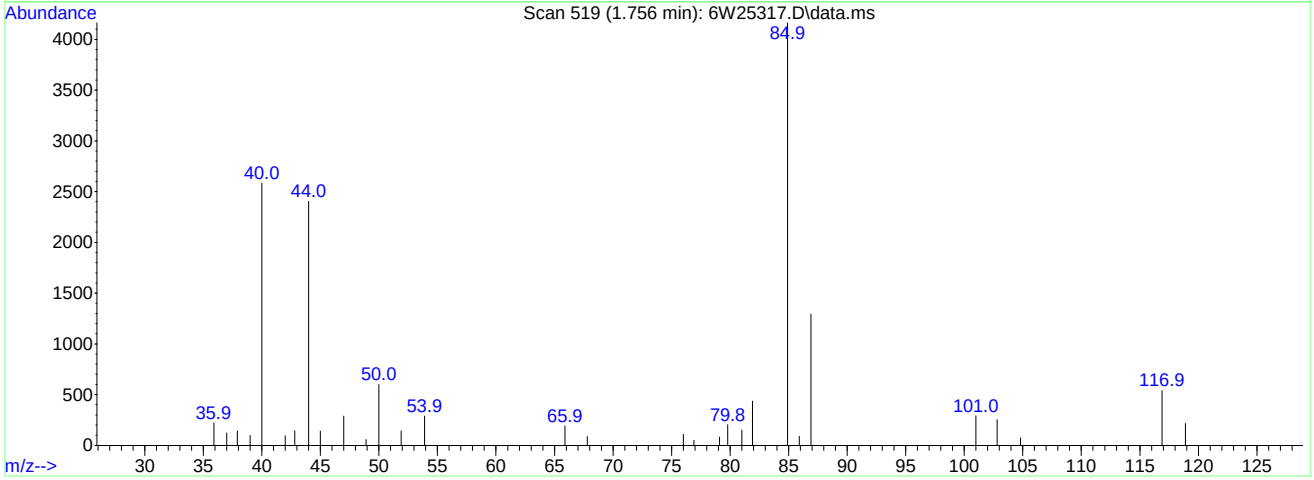
| Ion | Exp% | Act% |
|---|---|---|
| 75.00 | 100 | 100 |
| 99.90 | 0.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:46:27 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration




TIC: 6W25317.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.756min (-0.004) 0.15PPBV

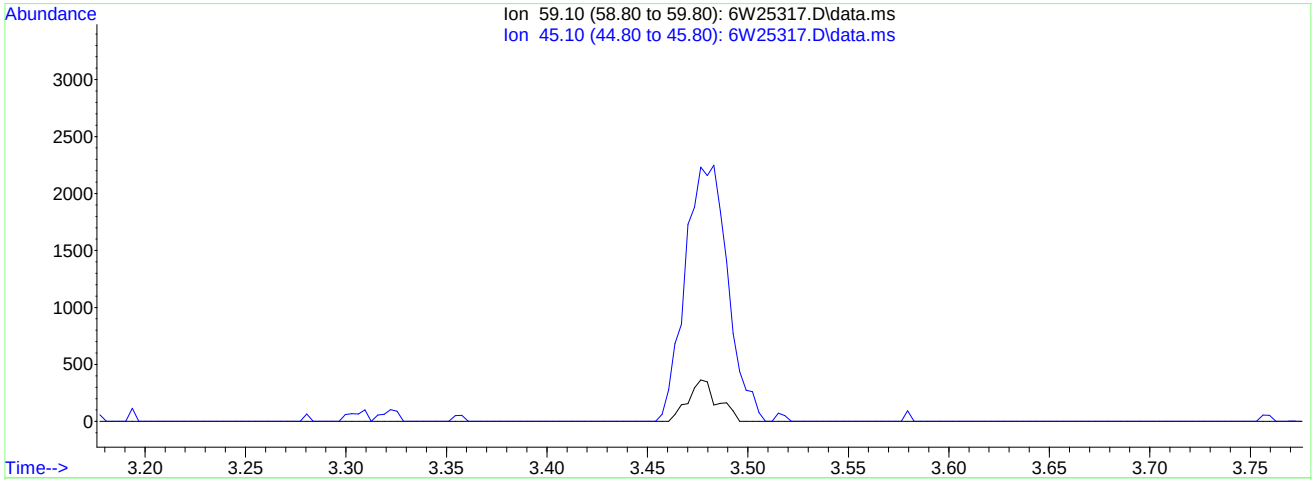
response 3145

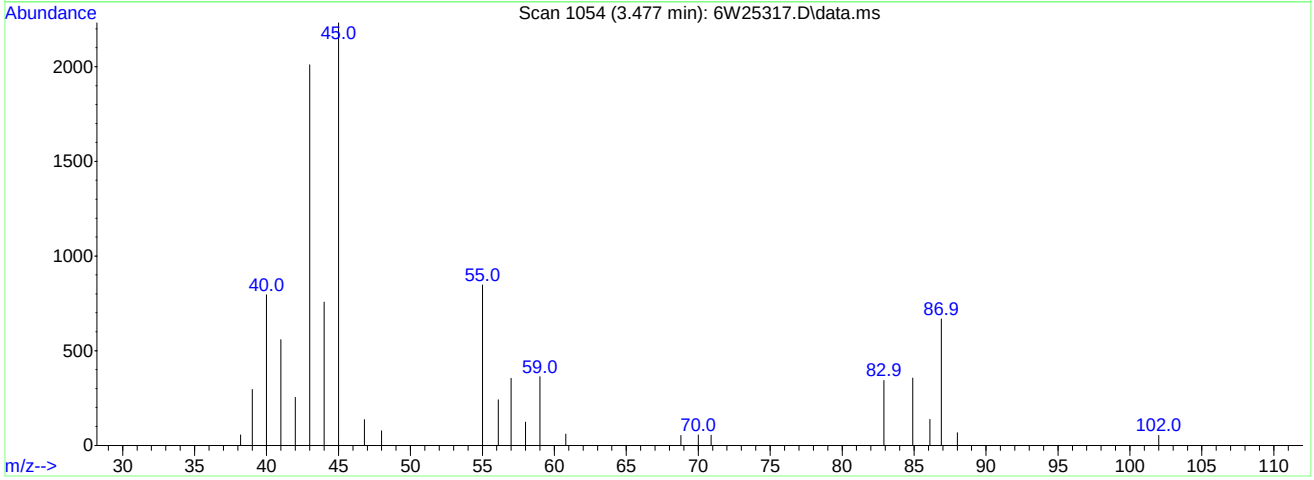
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 34.18 |
| 50.00 | 9.30 | 24.36# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:46:27 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration




TIC: 6W25317.D\data.ms

(43) DIISOPROPYL ETHER (T)

3.476min (-3.476) 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 59.10 | 100 | 0.00 |
| 45.10 | 674.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |





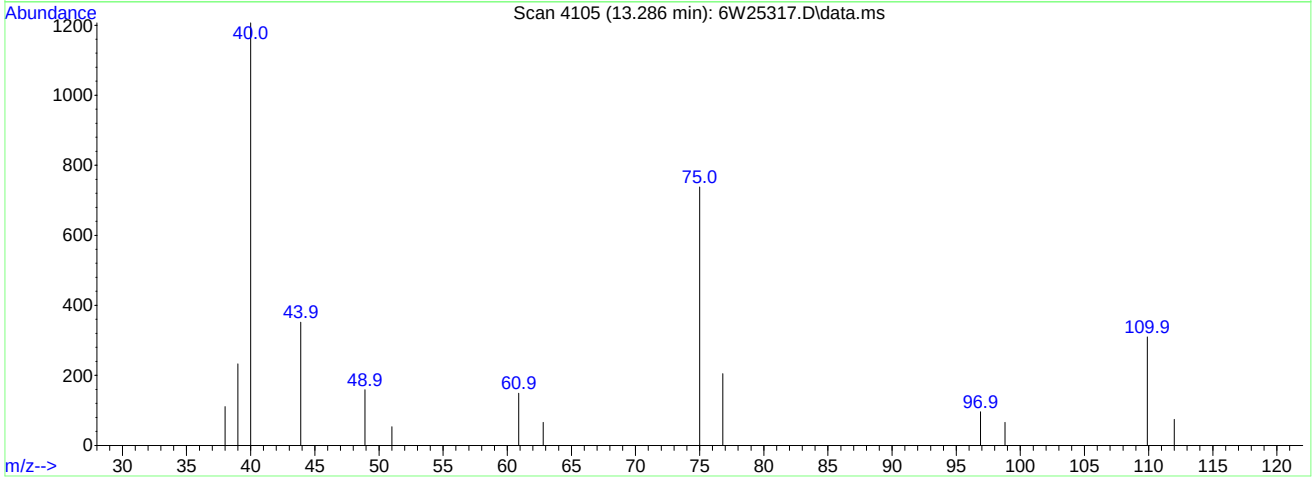
6W25317.D edits: DIISOPROPYL ETHER

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:46:27 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration




TIC: 6W25317.D\data.ms

(86) 1,2,3-TRICHLOROPROPANE (T)

13.286min (+0.003) 0.05PPBV

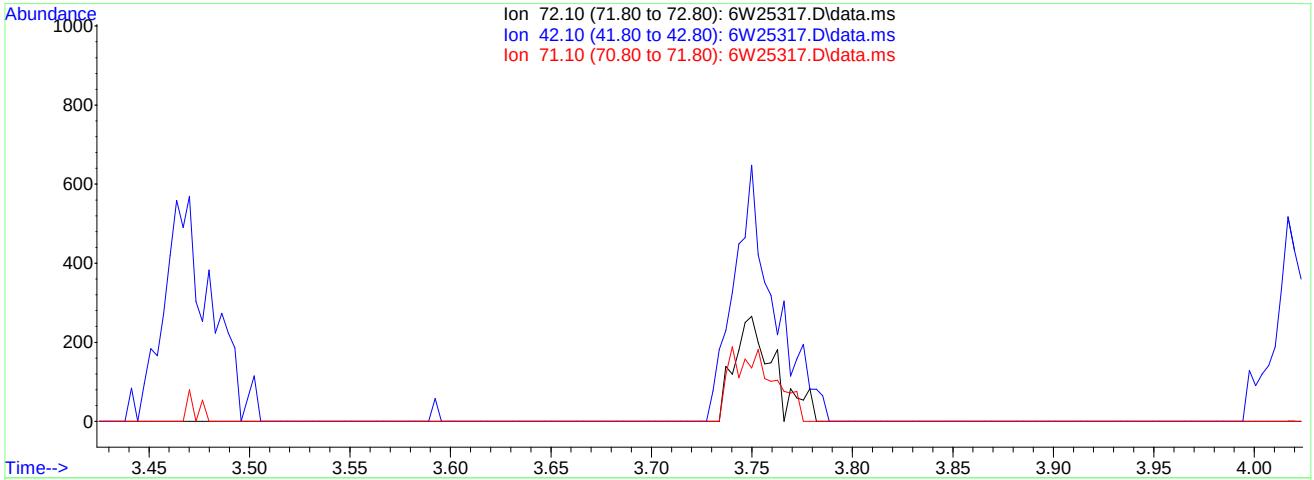
response 858

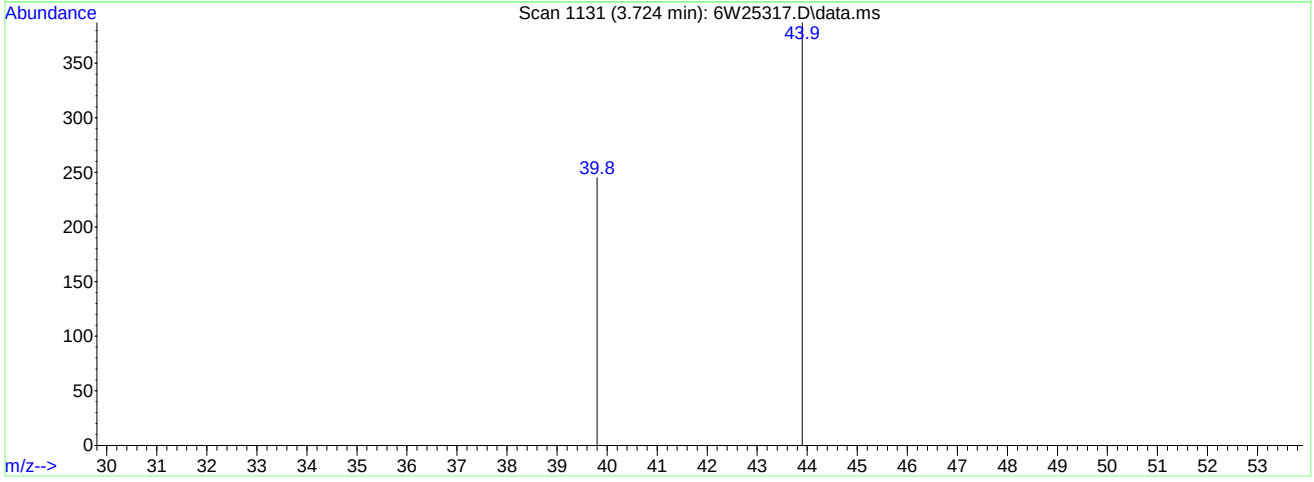
| Ion | Exp% | Act% |
|---|---|---|
| 75.00 | 100 | 100 |
| 99.90 | 0.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:46:27 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration




TIC: 6W25317.D\data.ms

(37) TETRAHYDROFURAN (T)

3.724min (-3.724) 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 72.10 | 100 | 0.00 |
| 42.10 | 186.30 | 0.00# |
| 71.10 | 93.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |







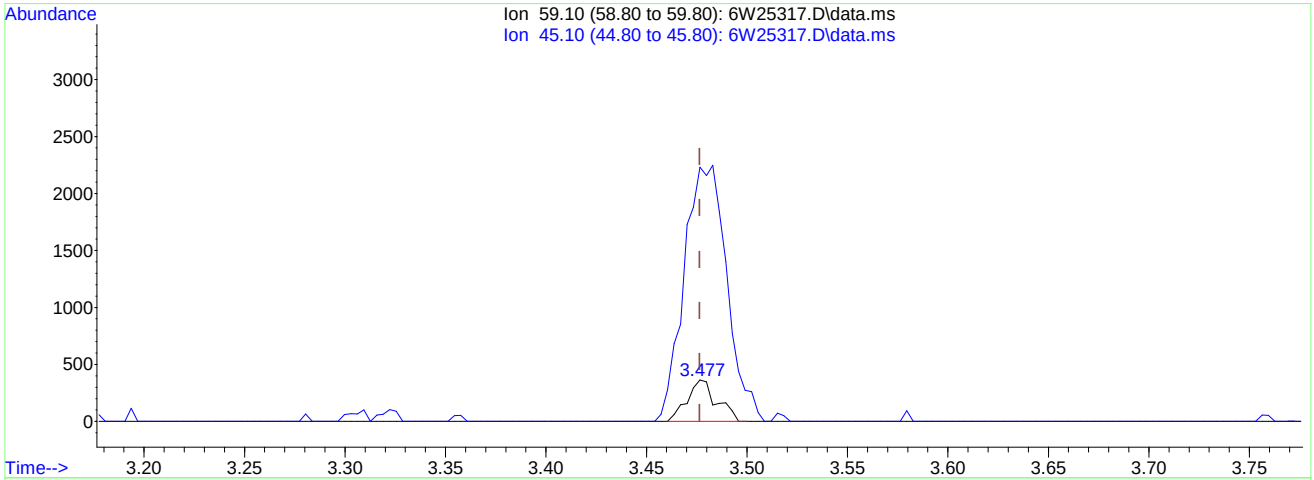


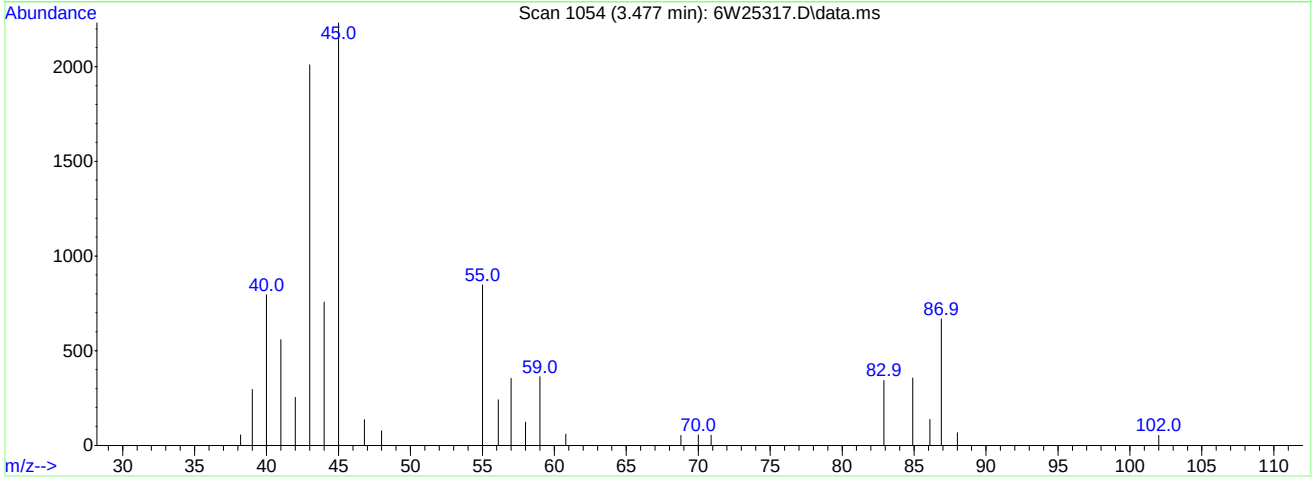
7.7.13.16

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:15:13 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25317.D\data.ms

(43) DIISOPROPYL ETHER (T)

3.477min (+0.000) 0.11PPBV m

response 371

| Ion | Exp% | Act% |
|---|---|---|
| 59.10 | 100 | 100 |
| 45.10 | 674.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |







6W25317.D edits: DIISOPROPYL ETHER

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/22 10:23

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:35:37 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.412 | 128 | 46693 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.792 | 114 | 249711 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.605 | 117 | 219091 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.036 | 95 | 150733 | 9.81 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.721 | 65 | 886 | 0.23 | PPBV | # | 53 |
| 4) CHLORODIFLUOROMETHANE | 1.734 | 67 | 419m | 0.24 | PPBV | | |
| 5) CHLOROTRIFLUOROETHENE | 1.743 | 116 | 1857 | 0.20 | PPBV | # | 90 |
| 6) DICHLORODIFLUOROMETHANE | 1.760 | 85 | 5457 | 0.25 | PPBV | # | 91 |
| 7) PROPYLENE | 1.743 | 41 | 1472 | 0.28 | PPBV | | 91 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.795 | 65 | 4833 | 0.24 | PPBV | # | 52 |
| 9) FREON 114 | 1.830 | 85 | 4816 | 0.22 | PPBV | | 96 |
| 10) CHLOROMETHANE | 1.801 | 52 | 653 | 0.27 | PPBV | | 94 |
| 11) VINYL CHLORIDE | 1.859 | 62 | 2228 | 0.26 | PPBV | # | 91 |
| 12) 1,3-BUTADIENE | 1.898 | 54 | 1904 | 0.28 | PPBV | # | 71 |
| 13) N-BUTANE | 1.914 | 43 | 3543 | 0.28 | PPBV | # | 76 |
| 14) BROMOMETHANE | 1.972 | 94 | 1728 | 0.23 | PPBV | # | 94 |
| 15) CHLOROETHANE | 2.020 | 64 | 1166 | 0.26 | PPBV | # | 43 |
| 16) DICHLOROFLUOROMETHANE | 2.046 | 67 | 4495 | 0.24 | PPBV | # | 92 |
| 17) ACETONITRILE | 2.113 | 41 | 2566 | 0.34 | PPBV | # | 79 |
| 18) ACROLEIN | 2.155 | 56 | 648 | 0.20 | PPBV | # | 15 |
| 19) FREON 123 | 2.165 | 83 | 4249 | 0.22 | PPBV | | 98 |
| 20) FREON 123A | 2.184 | 117 | 2516 | 0.24 | PPBV | # | 72 |
| 21) TRICHLOROFLUOROMETHANE | 2.245 | 101 | 4827 | 0.21 | PPBV | | 96 |
| 22) ISOPROPYL ALCOHOL | 2.268 | 45 | 5398 | 0.29 | PPBV | # | 91 |
| 23) ACETONE | 2.194 | 58 | 1619 | 0.33 | PPBV | # | 67 |
| 24) PENTANE | 2.358 | 42 | 2684 | 0.29 | PPBV | # | 86 |
| 25) IODOMETHANE | 2.419 | 142 | 4510 | 0.21 | PPBV | # | 82 |
| 26) 1,1-DICHLOROETHYLENE | 2.448 | 96 | 1702 | 0.21 | PPBV | # | 46 |
| 27) CARBON DISULFIDE | 2.589 | 76 | 5459 | 0.22 | PPBV | # | 71 |
| 29) BROMOETHENE | 2.116 | 106 | 1586 | 0.20 | PPBV | # | 86 |
| 30) ACRYLONITRILE | 2.332 | 52 | 1596 | 0.25 | PPBV | # | 95 |
| 31) METHYLENE CHLORIDE | 2.489 | 84 | 2304 | 0.31 | PPBV | # | 41 |
| 32) 3-CHLOROPROPENE | 2.531 | 76 | 1114 | 0.27 | PPBV | # | 1 |
| 33) FREON 113 | 2.592 | 151 | 3002 | 0.21 | PPBV | | 87 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.846 | 96 | 1997 | 0.23 | PPBV | # | 76 |
| 35) TERTIARY BUTYL ALCOHOL | 2.473 | 59 | 4851 | 0.23 | PPBV | # | 91 |
| 36) METHYL TERTIARY BUTYL ... | 2.975 | 73 | 5792 | 0.22 | PPBV | # | 88 |
| 37) TETRAHYDROFURAN | 3.747 | 72 | 673 | 0.19 | PPBV | # | 53 |
| 38) HEXANE | 3.467 | 57 | 2682 | 0.23 | PPBV | # | 79 |
| 39) VINYL ACETATE | 3.007 | 86 | 554 | 0.23 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.930 | 63 | 3732 | 0.23 | PPBV | | 98 |
| 41) METHYL ETHYL KETONE | 3.123 | 72 | 972 | 0.21 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.332 | 96 | 1614 | 0.21 | PPBV | | 86 |
| 43) DIISOPROPYL ETHER | 3.483 | 59 | 806 | 0.23 | PPBV | | 73 |
| 44) ETHYL ACETATE | 3.493 | 61 | 471m | 0.18 | PPBV | | |
| 45) METHYL ACRYLATE | 3.467 | 55 | 3029 | 0.20 | PPBV | # | 65 |
| 46) CHLOROFORM | 3.493 | 83 | 3336 | 0.22 | PPBV | # | 95 |
| 47) 2,4-DIMETHYLPENTANE | 4.023 | 57 | 3204 | 0.24 | PPBV | # | 92 |
| 48) 1,1,1-TRICHLOROETHANE | 4.110 | 97 | 3158 | 0.21 | PPBV | | 94 |
| 49) CARBON TETRACHLORIDE | 4.560 | 117 | 3200 | 0.21 | PPBV | | 97 |
| 50) 1,2-DICHLOROETHANE | 3.939 | 62 | 2389 | 0.23 | PPBV | # | 87 |
| 51) BENZENE | 4.441 | 78 | 4876 | 0.22 | PPBV | | 85 |
| 53) CYCLOHEXANE | 4.669 | 84 | 1884 | 0.19 | PPBV | # | 68 |
| 54) 2,3-DIMETHYLPENTANE | 4.939 | 71 | 1004 | 0.20 | PPBV | # | 56 |
| 55) TRICHLOROETHENE | 5.406 | 95 | 2151 | 0.21 | PPBV | | 96 |
| 56) 1,2-DICHLOROPROPANE | 5.152 | 63 | 1788 | 0.21 | PPBV | | 92 |
| 57) DIBROMOMETHANE | 5.113 | 174 | 2180 | 0.24 | PPBV | | 87 |
| 58) ETHYL ACRYLATE | 5.293 | 55 | 3295 | 0.18 | PPBV | # | 73 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:35:37 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

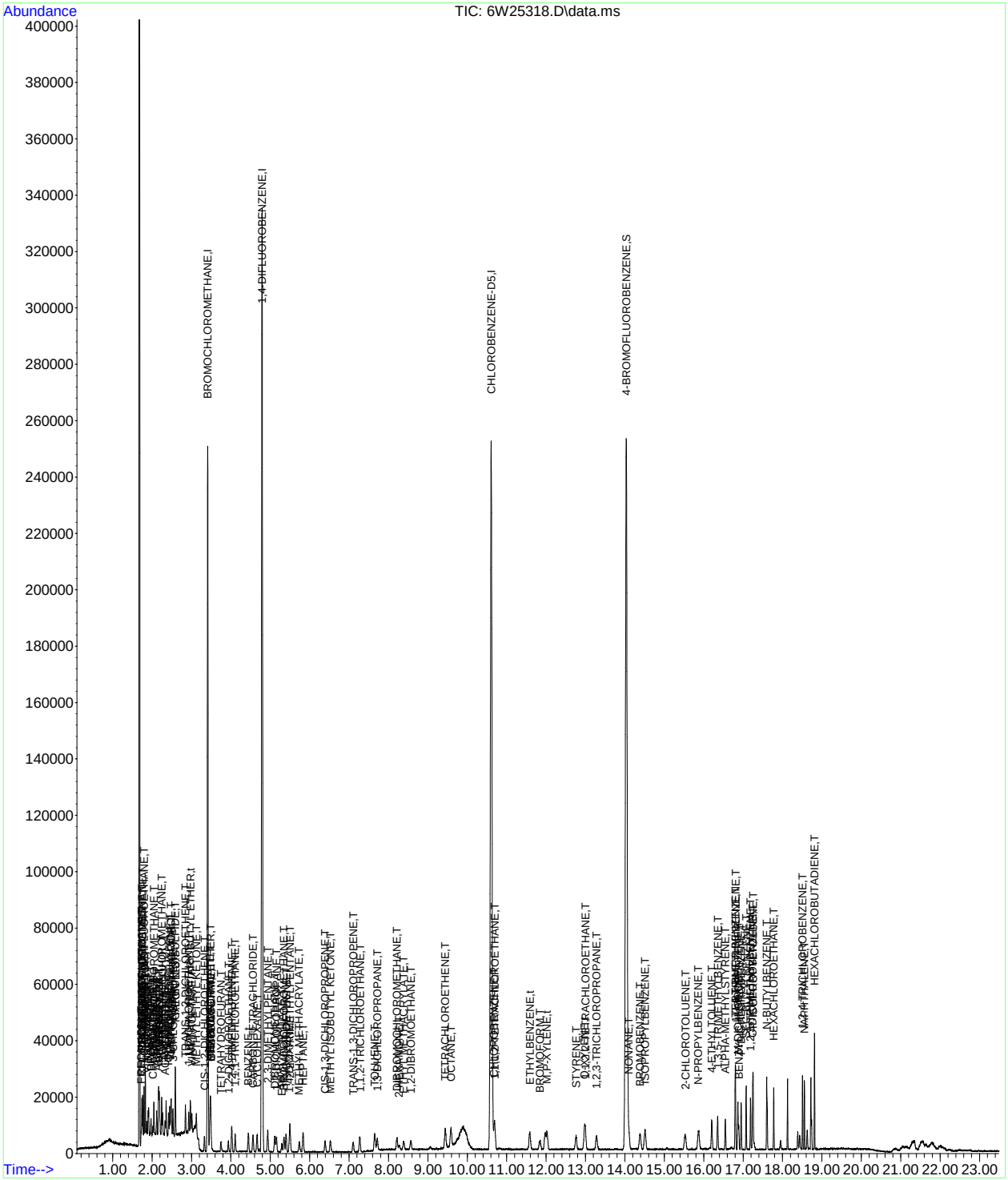
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 59) | BROMODICHLOROMETHANE | 5.345 | 83 | 3380 | 0.20 | PPBV | | 96 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.499 | 57 | 8450 | 0.23 | PPBV | # | 97 |
| 61) | 1,4-DIOXANE | 5.476 | 88 | 892m | 0.16 | PPBV | | |
| 62) | HEPTANE | 5.833 | 43 | 3438 | 0.26 | PPBV | # | 73 |
| 63) | METHYL METHACRYLATE | 5.730 | 69 | 1551 | 0.18 | PPBV | # | 65 |
| 64) | METHYL ISOBUTYL KETONE | 6.525 | 58 | 1233 | 0.17 | PPBV | # | 54 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.390 | 75 | 2449 | 0.19 | PPBV | # | 65 |
| 66) | TOLUENE | 7.650 | 91 | 6215 | 0.23 | PPBV | | 94 |
| 67) | 1,3-DICHLOROPROPANE | 7.714 | 76 | 2872 | 0.21 | PPBV | # | 92 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.107 | 75 | 2414 | 0.20 | PPBV | # | 77 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.280 | 83 | 1838 | 0.22 | PPBV | | 94 |
| 70) | 2-HEXANONE | 8.264 | 58 | 774m | 0.09 | PPBV | | |
| 71) | ETHYL METHACRYLATE | 8.383 | 69 | 2112 | 0.15 | PPBV | # | 55 |
| 72) | TETRACHLOROETHENE | 9.441 | 164 | 2060 | 0.20 | PPBV | | 89 |
| 73) | DIBROMOCHLOROMETHANE | 8.209 | 129 | 2973 | 0.18 | PPBV | | 99 |
| 74) | 1,2-DIBROMOETHANE | 8.573 | 107 | 3102 | 0.21 | PPBV | # | 93 |
| 75) | OCTANE | 9.589 | 43 | 4187 | 0.23 | PPBV | # | 78 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.701 | 131 | 2316 | 0.20 | PPBV | | 91 |
| 78) | CHLOROBENZENE | 10.676 | 112 | 4841 | 0.22 | PPBV | | 98 |
| 79) | ETHYLBENZENE | 11.589 | 91 | 7464 | 0.20 | PPBV | | 97 |
| 80) | M,P-XYLENE | 12.016 | 91 | 11348m | 0.40 | PPBV | | |
| 81) | O-XYLENE | 12.971 | 91 | 5961 | 0.21 | PPBV | # | 81 |
| 82) | STYRENE | 12.759 | 104 | 3944 | 0.18 | PPBV | | 94 |
| 83) | NONANE | 14.093 | 43 | 4561 | 0.24 | PPBV | # | 80 |
| 84) | BROMOFORM | 11.843 | 173 | 2489 | 0.16 | PPBV | # | 92 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 12.997 | 83 | 4620 | 0.21 | PPBV | # | 93 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.274 | 75 | 3504 | 0.21 | PPBV | # | 99 |
| 88) | ISOPROPYLBENZENE | 14.508 | 120 | 2322 | 0.21 | PPBV | | 90 |
| 89) | BROMOBENZENE | 14.380 | 77 | 4531 | 0.22 | PPBV | | 89 |
| 90) | 2-CHLOROTOLUENE | 15.537 | 126 | 1917m | 0.19 | PPBV | | |
| 91) | N-PROPYLBENZENE | 15.859 | 120 | 2400 | 0.21 | PPBV | # | 62 |
| 92) | 4-ETHYLTOLUENE | 16.203 | 105 | 7665 | 0.18 | PPBV | # | 98 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.354 | 105 | 6419 | 0.19 | PPBV | # | 97 |
| 94) | ALPHA-METHYLSTYRENE | 16.550 | 118 | 2819 | 0.16 | PPBV | | 99 |
| 95) | TERT-BUTYLBENZENE | 16.801 | 134 | 1779 | 0.21 | PPBV | | 99 |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.807 | 105 | 6740 | 0.19 | PPBV | | 97 |
| 97) | BENZYL CHLORIDE | 16.891 | 91 | 4468 | 0.14 | PPBV | | 98 |
| 98) | M-DICHLOROBENZENE | 16.868 | 146 | 4881 | 0.20 | PPBV | | 95 |
| 99) | P-DICHLOROBENZENE | 16.949 | 146 | 4694 | 0.19 | PPBV | | 98 |
| 100) | O-DICHLOROBENZENE | 17.241 | 146 | 4544 | 0.19 | PPBV | | 98 |
| 101) | SEC-BUTYLBENZENE | 17.077 | 134 | 1985 | 0.19 | PPBV | | 99 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.187 | 105 | 6507 | 0.19 | PPBV | | 99 |
| 103) | P-ISOPROPYLTOLUENE | 17.254 | 134 | 2441 | 0.20 | PPBV | | 80 |
| 104) | N-BUTYLBENZENE | 17.598 | 134 | 2031 | 0.18 | PPBV | | 89 |
| 105) | HEXACHLOROETHANE | 17.775 | 117 | 2309 | 0.16 | PPBV | # | 87 |
| 106) | HEXACHLOROBUTADIENE | 18.810 | 225 | 3541 | 0.20 | PPBV | | 95 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.508 | 180 | 4325 | 0.19 | PPBV | | 96 |
| 108) | NAPHTHALENE | 18.553 | 128 | 10517 | 0.17 | PPBV | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:35:37 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



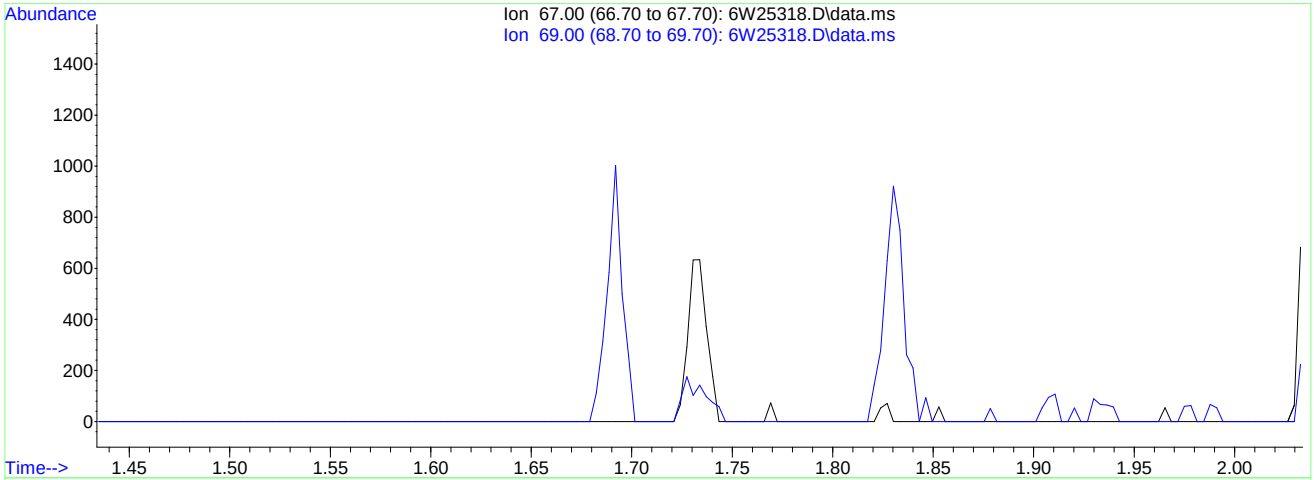
**Sample Number:** V6W1077-IC1077 **Method:** TO-15
**Lab FileID:** 6W25318.D **Analyst approved:** 08/05/22 10:02 Thomas Hilbig
**Injection Time:** 08/04/22 19:25 **Supervisor approved:** 08/08/22 10:23 Kanya Veerawat

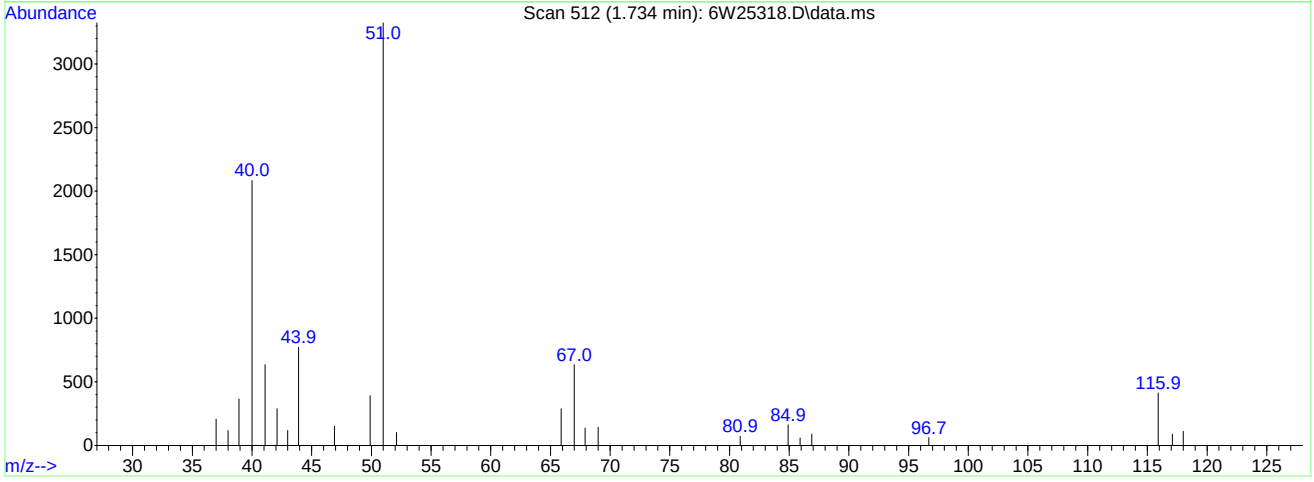
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Chlorodifluoromethane | 75-45-6 | | 1.73 | Missed peak |
| Ethyl Acetate | 141-78-6 | | 3.49 | Missed peak |
| 1,4-Dioxane | 123-91-1 | | 5.48 | Split peak |
| 2-Hexanone | 591-78-6 | | 8.26 | Missed peak |
| m,p-Xylene | | | 12.02 | Split peak |
| 2-Chlorotoluene | 95-49-8 | | 15.54 | Split peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:31:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25318.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.734min (-1.734) 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 67.00 | 100 | 0.00 |
| 69.00 | 36.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |





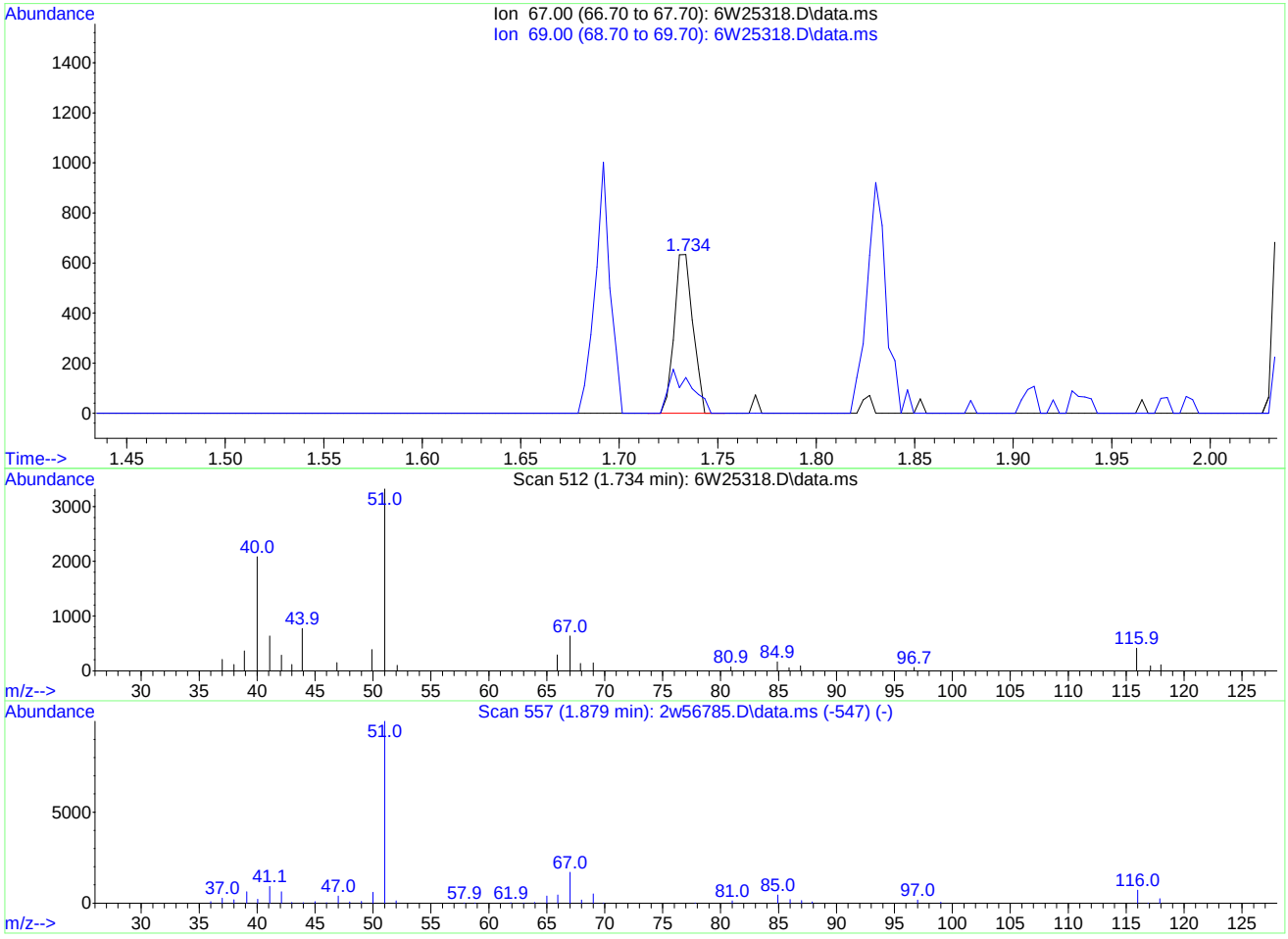


6W25318.D edits: CHLORODIFLUOROMETHANE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:31:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25318.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.734min (0.000) 0.24PPBV m

response 419

| Ion | Exp% | Act% |
|---|---|---|
| 67.00 | 100 | 100 |
| 69.00 | 36.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

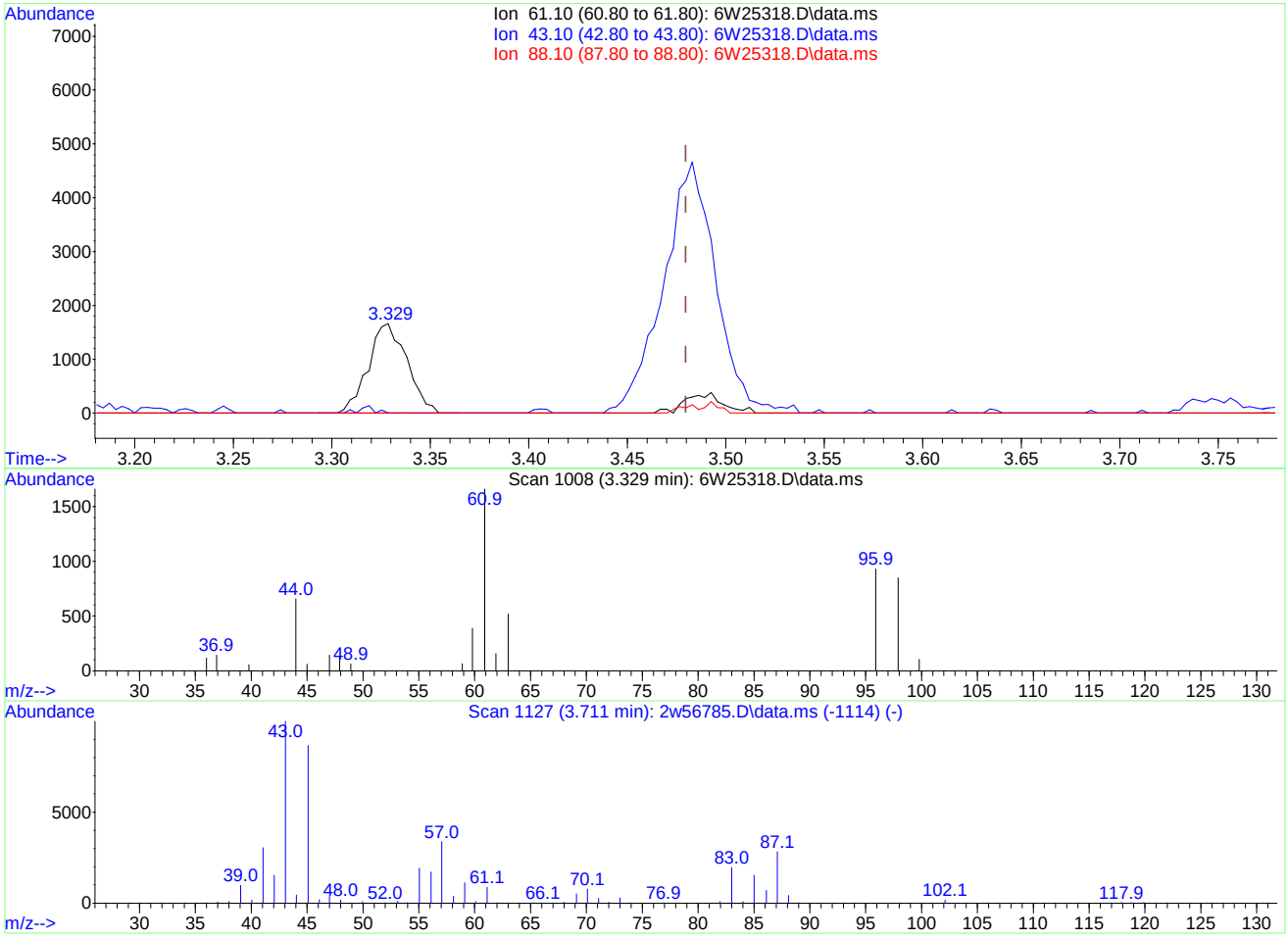


6W25318.D edits: CHLORODIFLUOROMETHANE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:31:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25318.D\data.ms

(44) ETHYL ACETATE (T)

3.329min (-0.151) 0.88PPBV

response 2268

| Ion | Exp% | Act% |
|---|---|---|
| 61.10 | 100 | 100 |
| 43.10 | 1232.70 | 0.00# |
| 88.10 | 48.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |



6W25318.D edits: ETHYL ACETATE

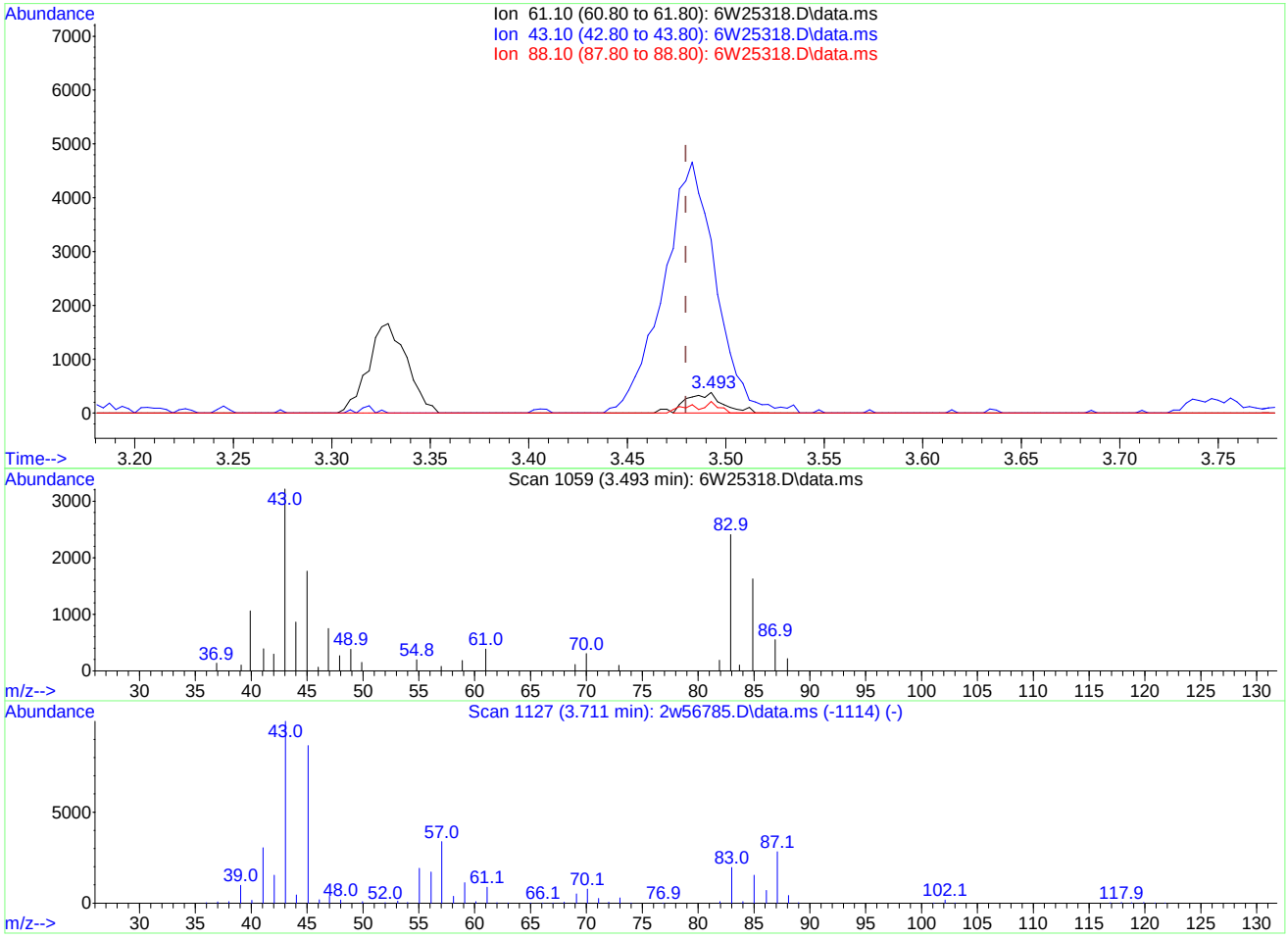


JD54338

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:31:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25318.D\data.ms

(44) ETHYL ACETATE (T)

3.493min (+0.013) 0.18PPBV m

response 471

| Ion | Exp% | Act% |
|---|---|---|
| 61.10 | 100 | 100 |
| 43.10 | 1232.70 | 0.00# |
| 88.10 | 48.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |





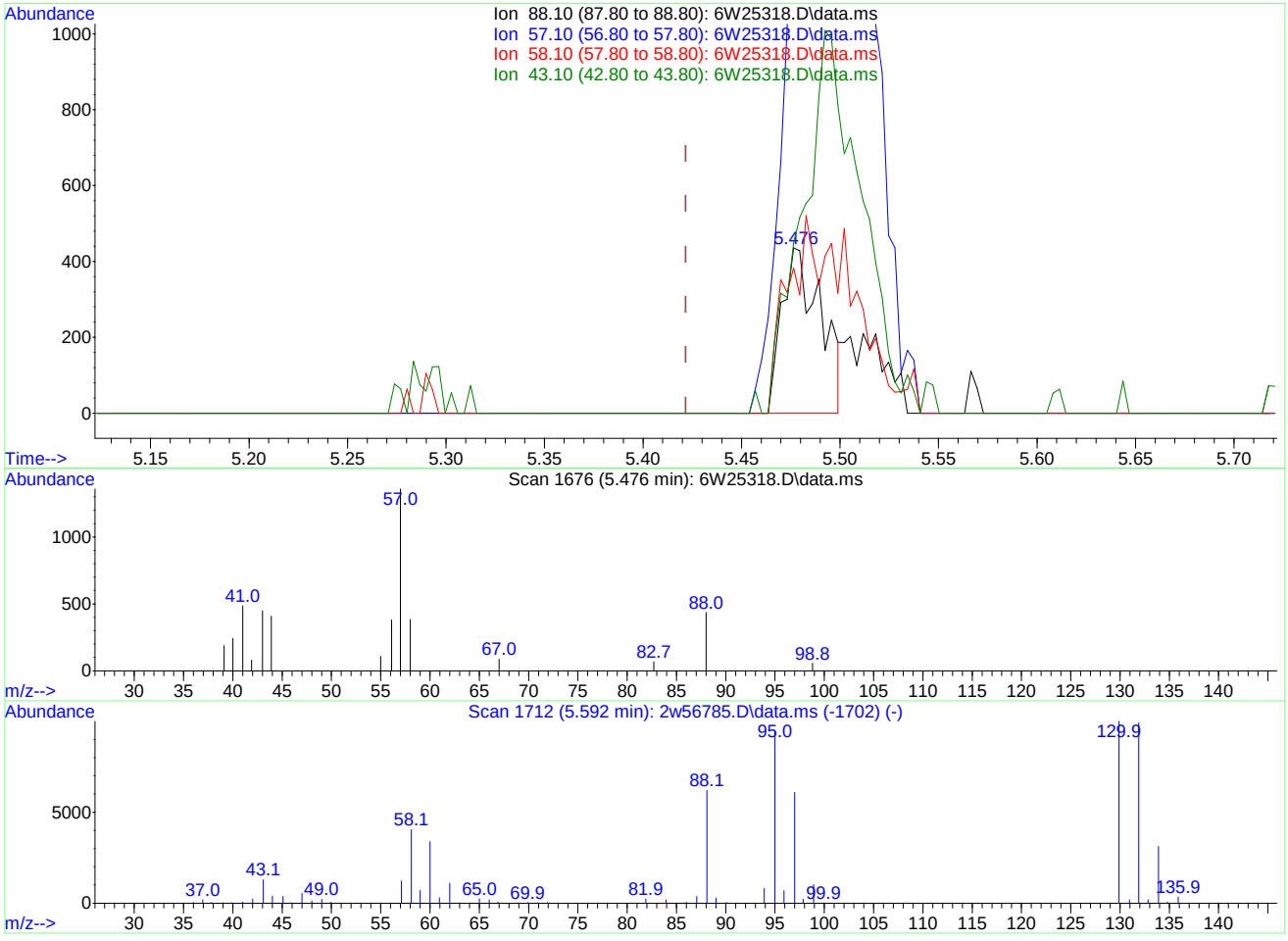


6W25318.D edits: ETHYL ACETATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:31:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25318.D\data.ms

(61) 1,4-DIOXANE (T)

5.476min (+0.055) 0.11PPBV

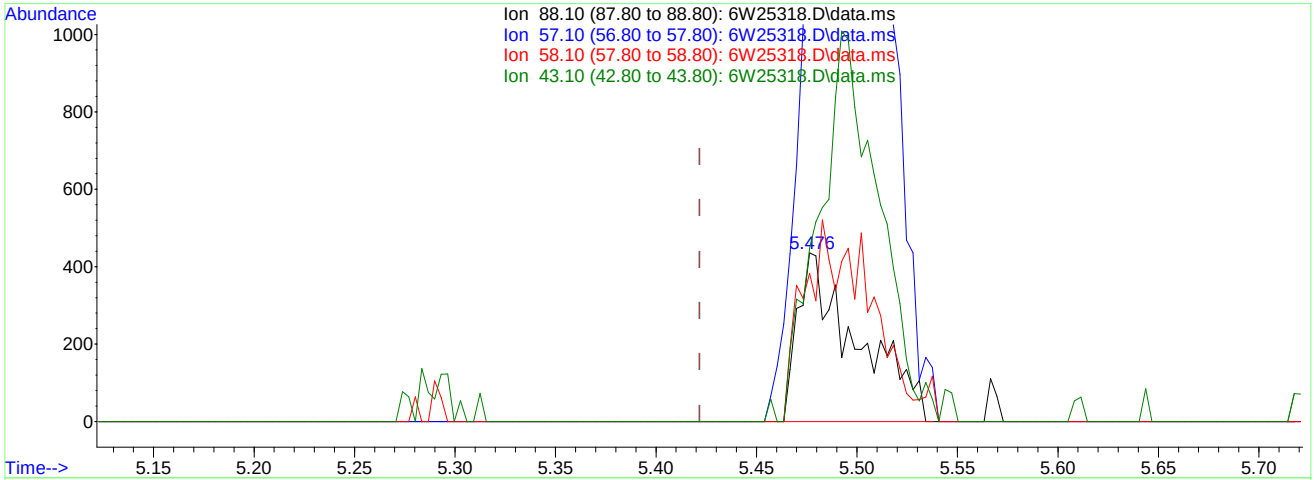
response 596

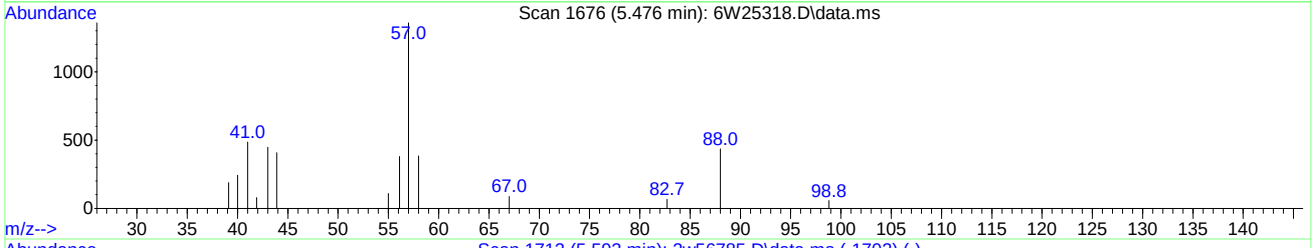
| Ion | Exp% | Act% |
|---|---|---|
| 88.10 | 100 | 100 |
| 57.10 | 18.70 | 0.00# |
| 58.10 | 62.60 | 202.01# |
| 43.10 | 19.20 | 0.00# |

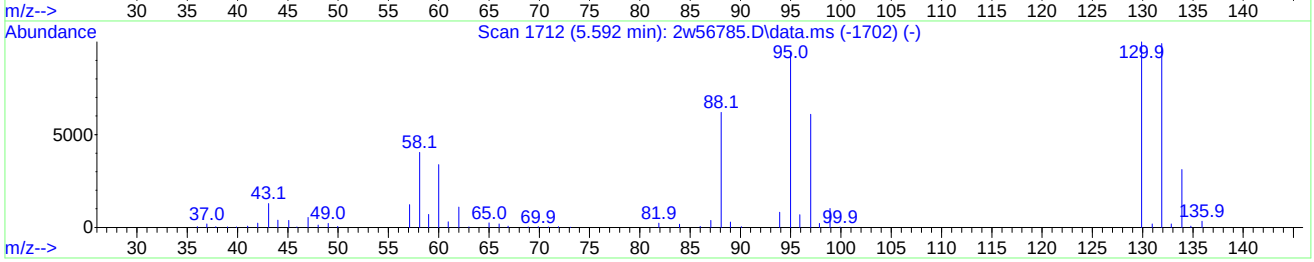
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:31:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25318.D\data.ms

(61) 1,4-DIOXANE (T)

5.476min (+0.055) 0.16PPBV m

response 892

| Ion | Exp% | Act% |
|---|---|---|
| 88.10 | 100 | 100 |
| 57.10 | 18.70 | 0.00# |
| 58.10 | 62.60 | 134.98# |
| 43.10 | 19.20 | 0.00# |





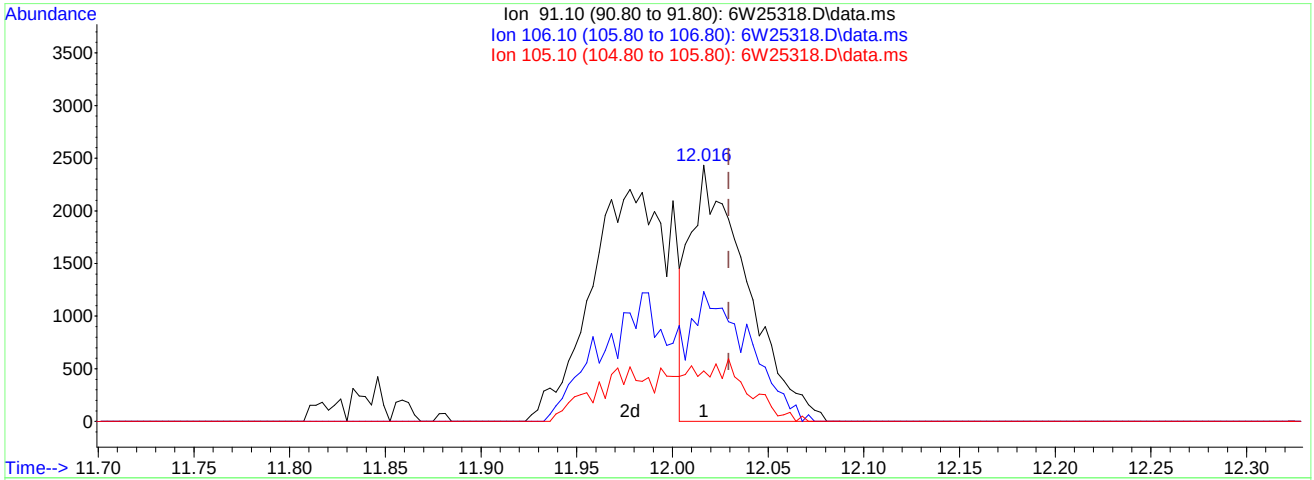


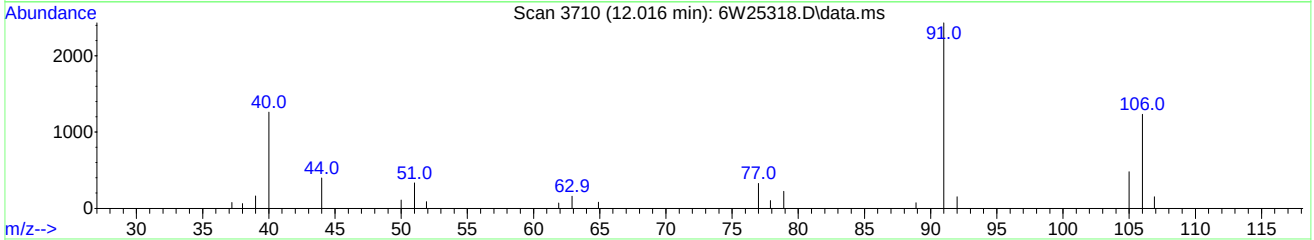
6W25318.D edits: 1,4-DIOXANE

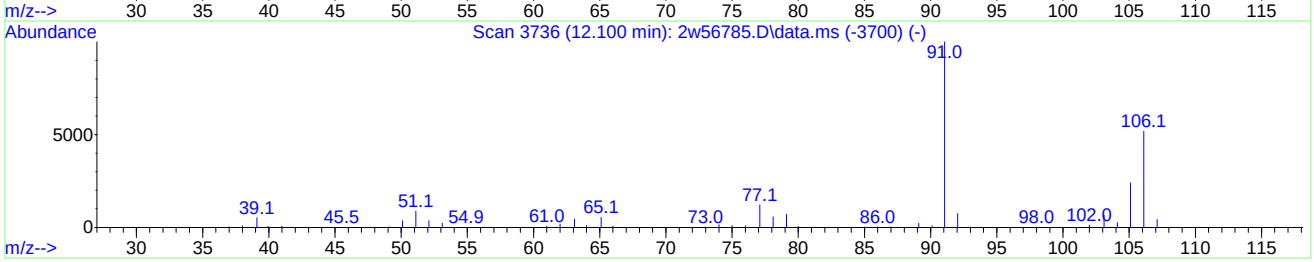
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:31:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25318.D\data.ms

(80) M,P-XYLENE (t)

12.016min (-0.013) 0.18PPBV

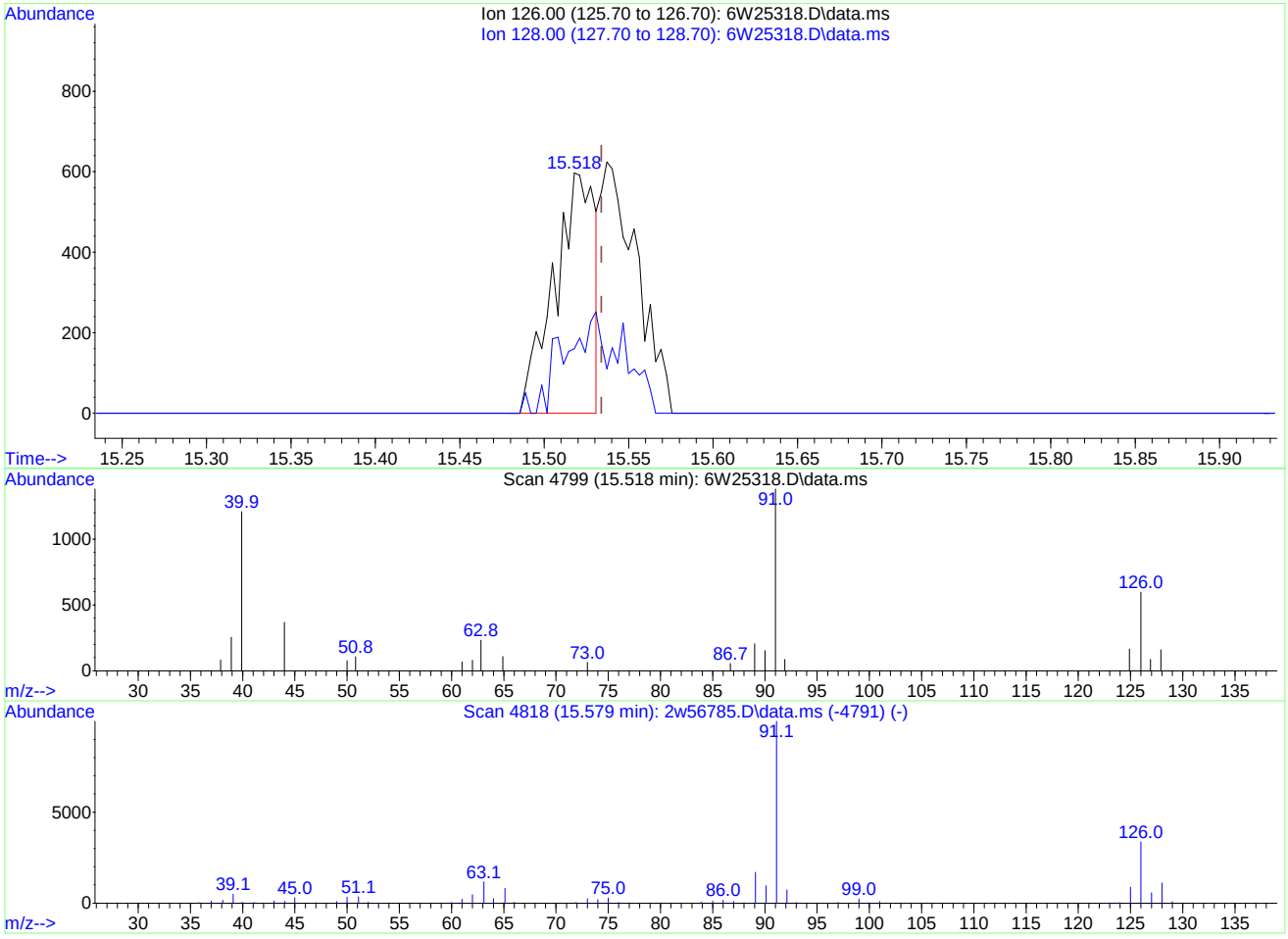
response 5027

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 57.83 |
| 105.10 | 23.60 | 30.06 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:31:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25318.D\data.ms

(90) 2-CHLOROTOLUENE (T)

15.518min (-0.016) 0.10PPBV

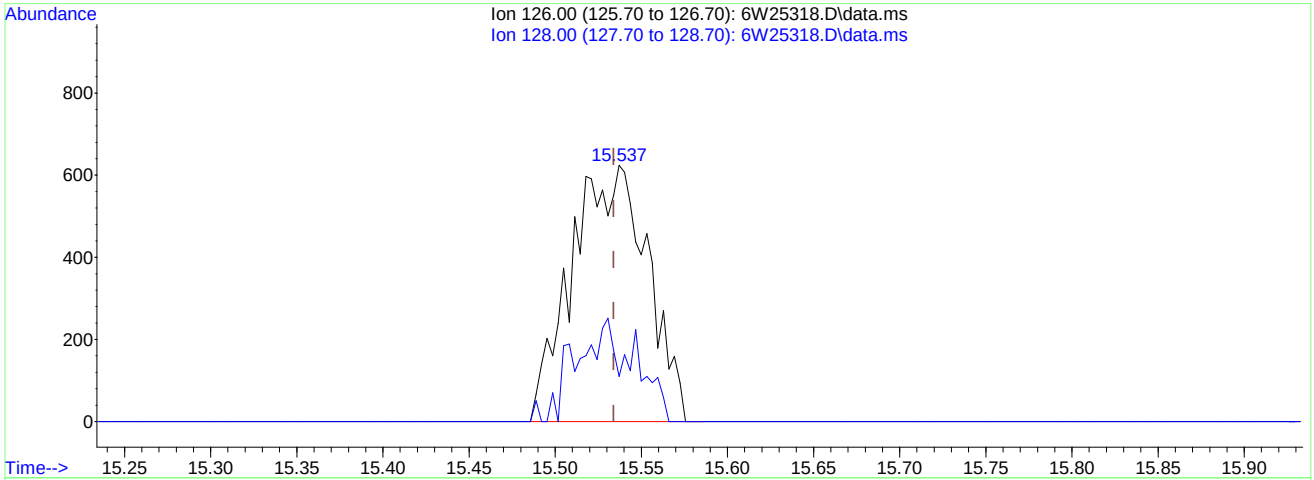
response 986

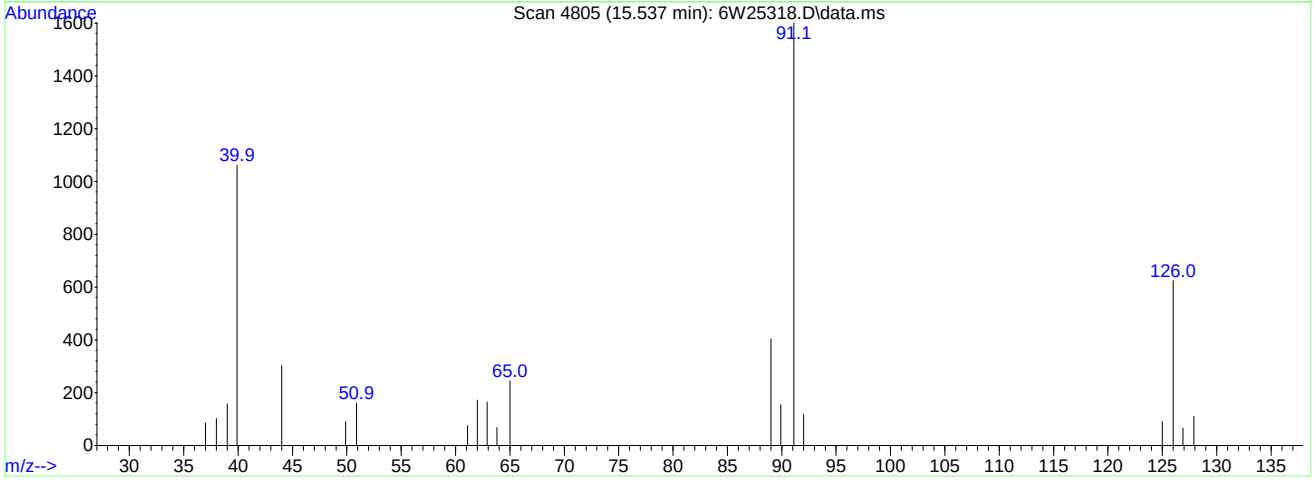
| Ion | Exp% | Act% |
|---|---|---|
| 126.00 | 100 | 100 |
| 128.00 | 32.60 | 58.92# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:35:37 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25318.D\data.ms

(90) 2-CHLOROTOLUENE (T)

15.537min (+0.003) 0.19PPBV m

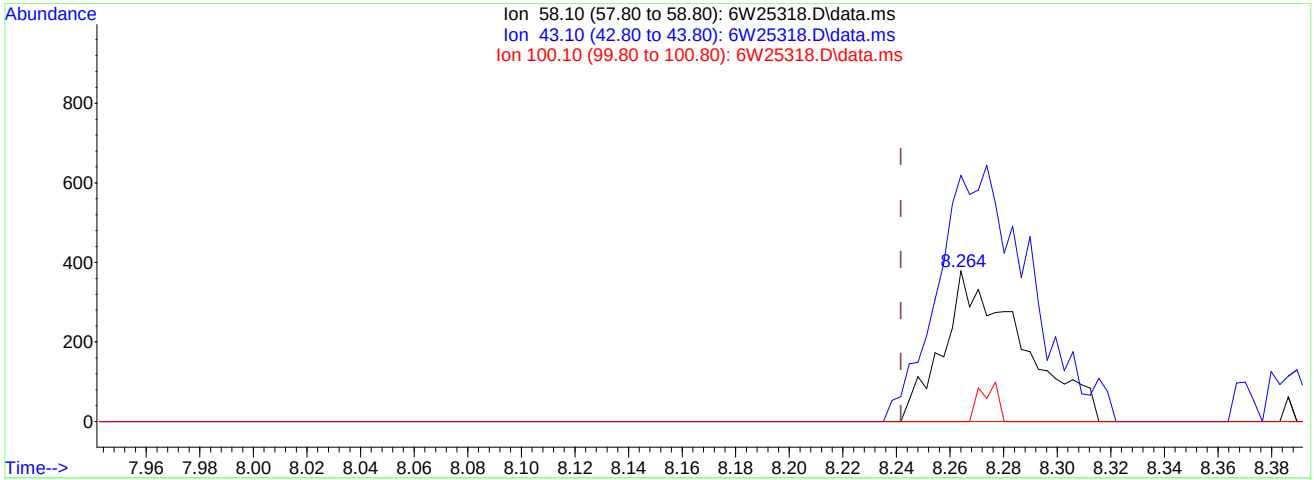
response 1917

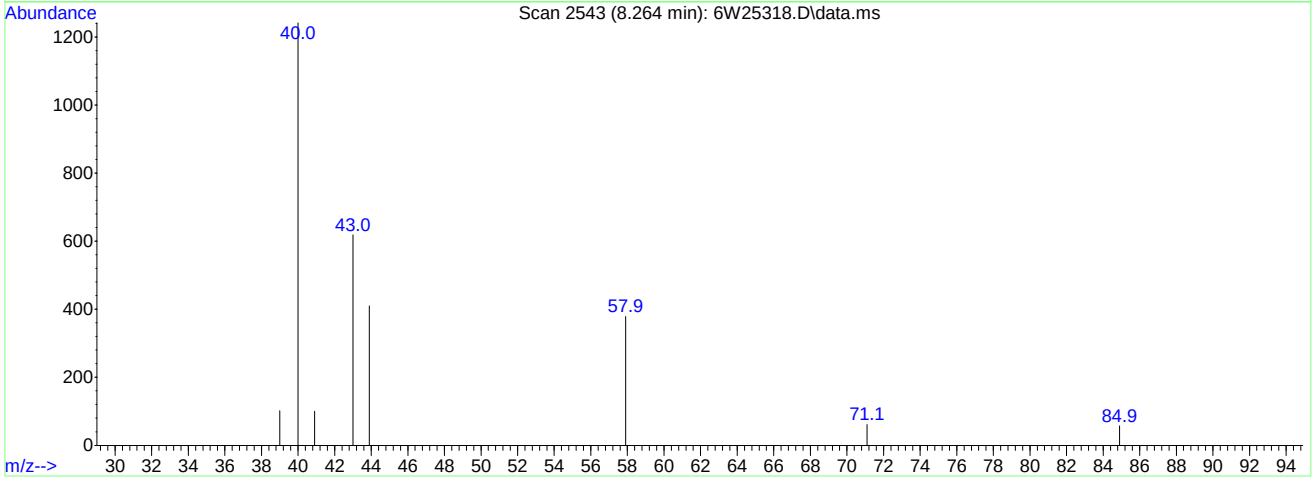
| Ion | Exp% | Act% |
|---|---|---|
| 126.00 | 100 | 100 |
| 128.00 | 32.60 | 30.31 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:35:37 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25318.D\data.ms

(70) 2-HEXANONE (T)

8.264min (+0.023) 0.09PPBV m

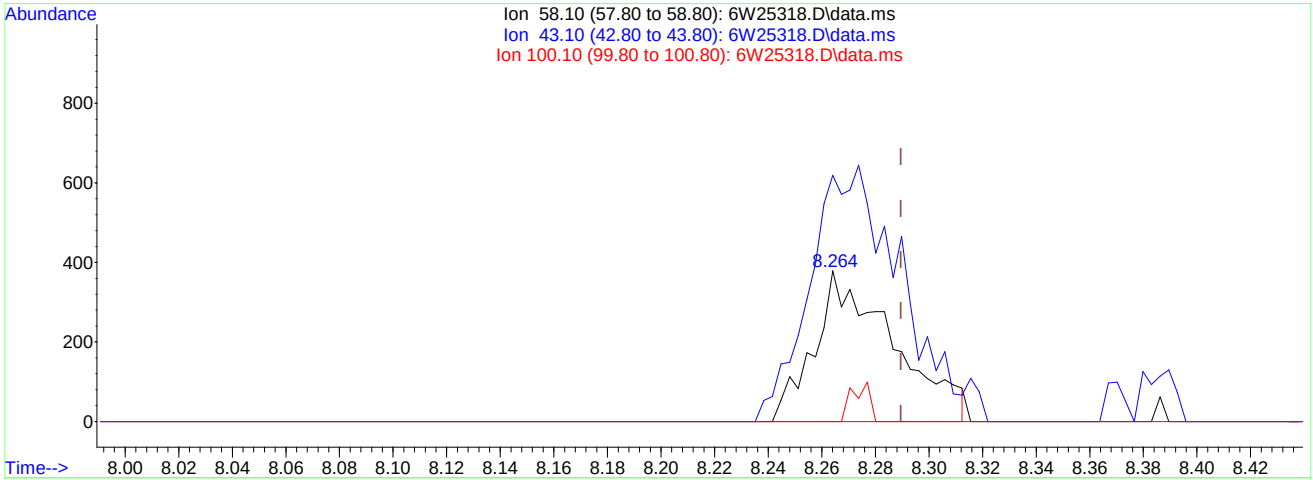
response 774

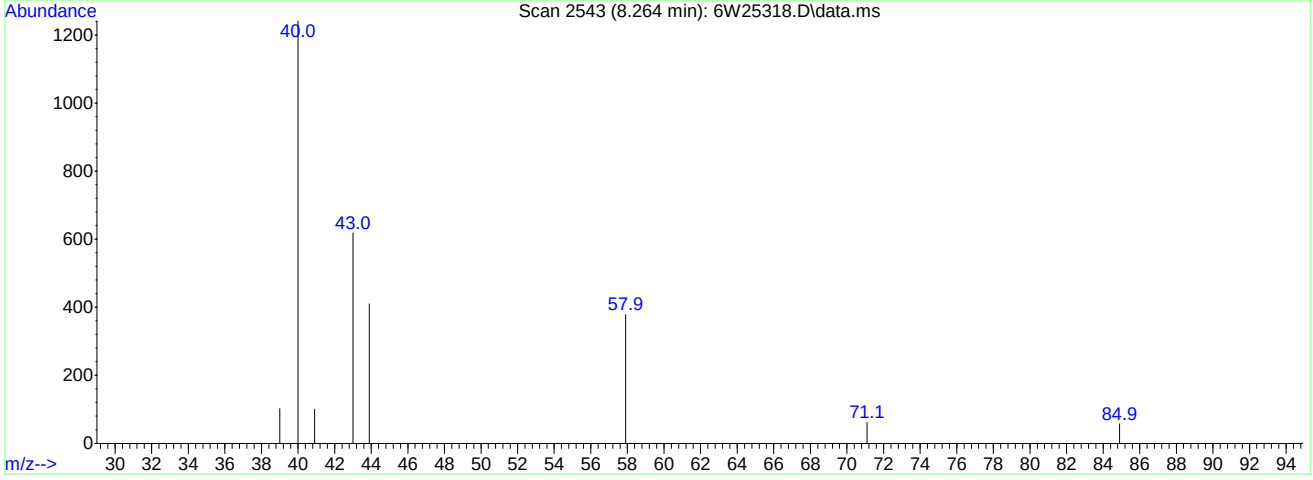
| Ion | Exp% | Act% |
|---|---|---|
| 58.10 | 100 | 100 |
| 43.10 | 150.80 | 196.25# |
| 100.10 | 24.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 08 09:37:03 2022
Quant Method : C:\msdchem\1\methods\M6W1077_old.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed May 18 09:12:16 2022
Response via : Initial Calibration




TIC: 6W25318.D\data.ms

(70) 2-HEXANONE (T)

8.264min (-0.025) 0.08PPBV

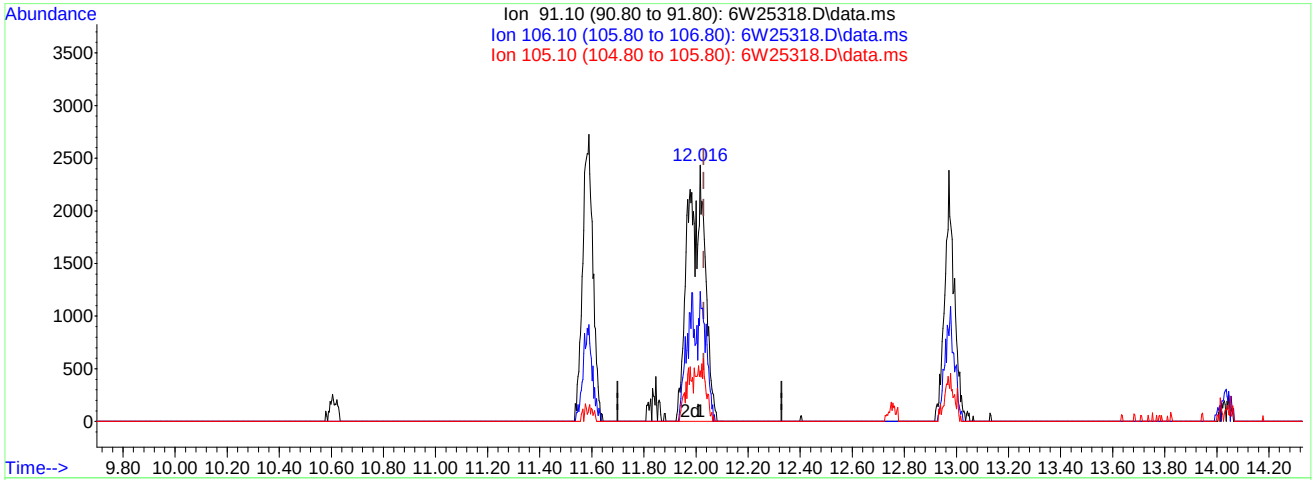
response 774

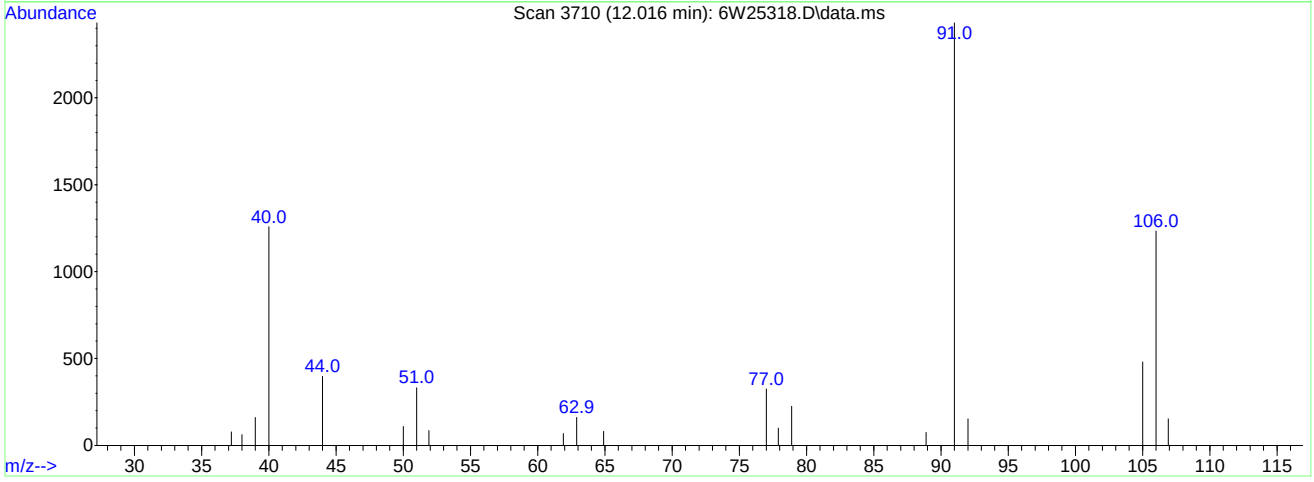
| Ion | Exp% | Act% |
|---|---|---|
| 58.10 | 100 | 100 |
| 43.10 | 150.80 | 191.60# |
| 100.10 | 24.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:35:37 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25318.D\data.ms

(80) M,P-XYLENE (t)

12.016min (-0.013) 0.40PPBV m

response 11348

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 25.62# |
| 105.10 | 23.60 | 13.32 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/22 10:23

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25319.D
Acq On : 4 Aug 2022 8:11 pm
Operator : thomash
Sample : ic1077-0.5
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:38:14 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.415 | 128 | 44988 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.795 | 114 | 244084 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.608 | 117 | 214178 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.036 | 95 | 149694 | 9.96 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.721 | 65 | 2196 | 0.59 | PPBV | # | 79 |
| 4) CHLORODIFLUOROMETHANE | 1.734 | 67 | 850 | 0.51 | PPBV | # | 39 |
| 5) CHLOROTRIFLUOROETHENE | 1.747 | 116 | 4863 | 0.55 | PPBV | # | 98 |
| 6) DICHLORODIFLUOROMETHANE | 1.763 | 85 | 11717m | 0.55 | PPBV | | |
| 7) PROPYLENE | 1.743 | 41 | 3223 | 0.65 | PPBV | | 91 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.798 | 65 | 12095 | 0.61 | PPBV | # | 71 |
| 9) FREON 114 | 1.834 | 85 | 12031 | 0.56 | PPBV | | 92 |
| 10) CHLOROMETHANE | 1.805 | 52 | 1581 | 0.67 | PPBV | | 95 |
| 11) VINYL CHLORIDE | 1.866 | 62 | 5188 | 0.62 | PPBV | # | 91 |
| 12) 1,3-BUTADIENE | 1.901 | 54 | 4056 | 0.63 | PPBV | # | 60 |
| 13) N-BUTANE | 1.917 | 43 | 8217 | 0.67 | PPBV | # | 83 |
| 14) BROMOMETHANE | 1.975 | 94 | 4143 | 0.58 | PPBV | | 96 |
| 15) CHLOROETHANE | 2.023 | 64 | 2525 | 0.59 | PPBV | # | 93 |
| 16) DICHLOROFLUOROMETHANE | 2.049 | 67 | 10542 | 0.58 | PPBV | # | 95 |
| 17) ACETONITRILE | 2.116 | 41 | 5116 | 0.70 | PPBV | # | 81 |
| 18) ACROLEIN | 2.152 | 56 | 1200 | 0.38 | PPBV | # | 81 |
| 19) FREON 123 | 2.168 | 83 | 9997 | 0.54 | PPBV | | 96 |
| 20) FREON 123A | 2.184 | 117 | 5591 | 0.54 | PPBV | # | 75 |
| 21) TRICHLOROFLUOROMETHANE | 2.248 | 101 | 12017 | 0.55 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.271 | 45 | 12258 | 0.69 | PPBV | # | 89 |
| 23) ACETONE | 2.197 | 58 | 3728 | 0.79 | PPBV | # | 70 |
| 24) PENTANE | 2.361 | 42 | 5803 | 0.66 | PPBV | # | 92 |
| 25) IODOMETHANE | 2.422 | 142 | 10523 | 0.52 | PPBV | # | 80 |
| 26) 1,1-DICHLOROETHYLENE | 2.451 | 96 | 4093 | 0.52 | PPBV | # | 51 |
| 27) CARBON DISULFIDE | 2.596 | 76 | 13256 | 0.56 | PPBV | # | 70 |
| 28) ETHANOL | 2.055 | 45 | 3313 | 0.85 | PPBV | # | 92 |
| 29) BROMOETHENE | 2.120 | 106 | 4087 | 0.55 | PPBV | # | 94 |
| 30) ACRYLONITRILE | 2.335 | 52 | 3778 | 0.62 | PPBV | | 97 |
| 31) METHYLENE CHLORIDE | 2.489 | 84 | 4894 | 0.68 | PPBV | # | 56 |
| 32) 3-CHLOROPROPENE | 2.534 | 76 | 2358 | 0.58 | PPBV | # | 1 |
| 33) FREON 113 | 2.596 | 151 | 6835 | 0.50 | PPBV | | 83 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.850 | 96 | 4687 | 0.55 | PPBV | # | 73 |
| 35) TERTIARY BUTYL ALCOHOL | 2.473 | 59 | 11368 | 0.55 | PPBV | # | 81 |
| 36) METHYL TERTIARY BUTYL ... | 2.975 | 73 | 13210 | 0.52 | PPBV | # | 87 |
| 37) TETRAHYDROFURAN | 3.743 | 72 | 1701 | 0.50 | PPBV | # | 62 |
| 38) HEXANE | 3.467 | 57 | 6185 | 0.56 | PPBV | # | 71 |
| 39) VINYL ACETATE | 3.010 | 86 | 1181 | 0.51 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.933 | 63 | 9466 | 0.61 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.126 | 72 | 2425 | 0.55 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.335 | 96 | 3727 | 0.51 | PPBV | # | 83 |
| 43) DIISOPROPYL ETHER | 3.480 | 59 | 1991 | 0.58 | PPBV | | 76 |
| 44) ETHYL ACETATE | 3.486 | 61 | 1245 | 0.50 | PPBV | # | 19 |
| 45) METHYL ACRYLATE | 3.470 | 55 | 7747 | 0.54 | PPBV | # | 98 |
| 46) CHLOROFORM | 3.499 | 83 | 8000 | 0.54 | PPBV | # | 92 |
| 47) 2,4-DIMETHYLPENTANE | 4.026 | 57 | 7462 | 0.57 | PPBV | | 94 |
| 48) 1,1,1-TRICHLOROETHANE | 4.113 | 97 | 7701 | 0.53 | PPBV | | 95 |
| 49) CARBON TETRACHLORIDE | 4.567 | 117 | 7548 | 0.51 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.936 | 62 | 5733 | 0.58 | PPBV | # | 91 |
| 51) BENZENE | 4.444 | 78 | 11040 | 0.51 | PPBV | | 83 |
| 53) CYCLOHEXANE | 4.663 | 84 | 4803 | 0.51 | PPBV | | 84 |
| 54) 2,3-DIMETHYLPENTANE | 4.933 | 71 | 2529 | 0.52 | PPBV | # | 65 |
| 55) TRICHLOROETHENE | 5.406 | 95 | 5168 | 0.52 | PPBV | | 95 |
| 56) 1,2-DICHLOROPROPANE | 5.158 | 63 | 4417 | 0.54 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.116 | 174 | 5006 | 0.56 | PPBV | | 91 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25319.D
Acq On : 4 Aug 2022 8:11 pm
Operator : thomash
Sample : ic1077-0.5
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:38:14 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

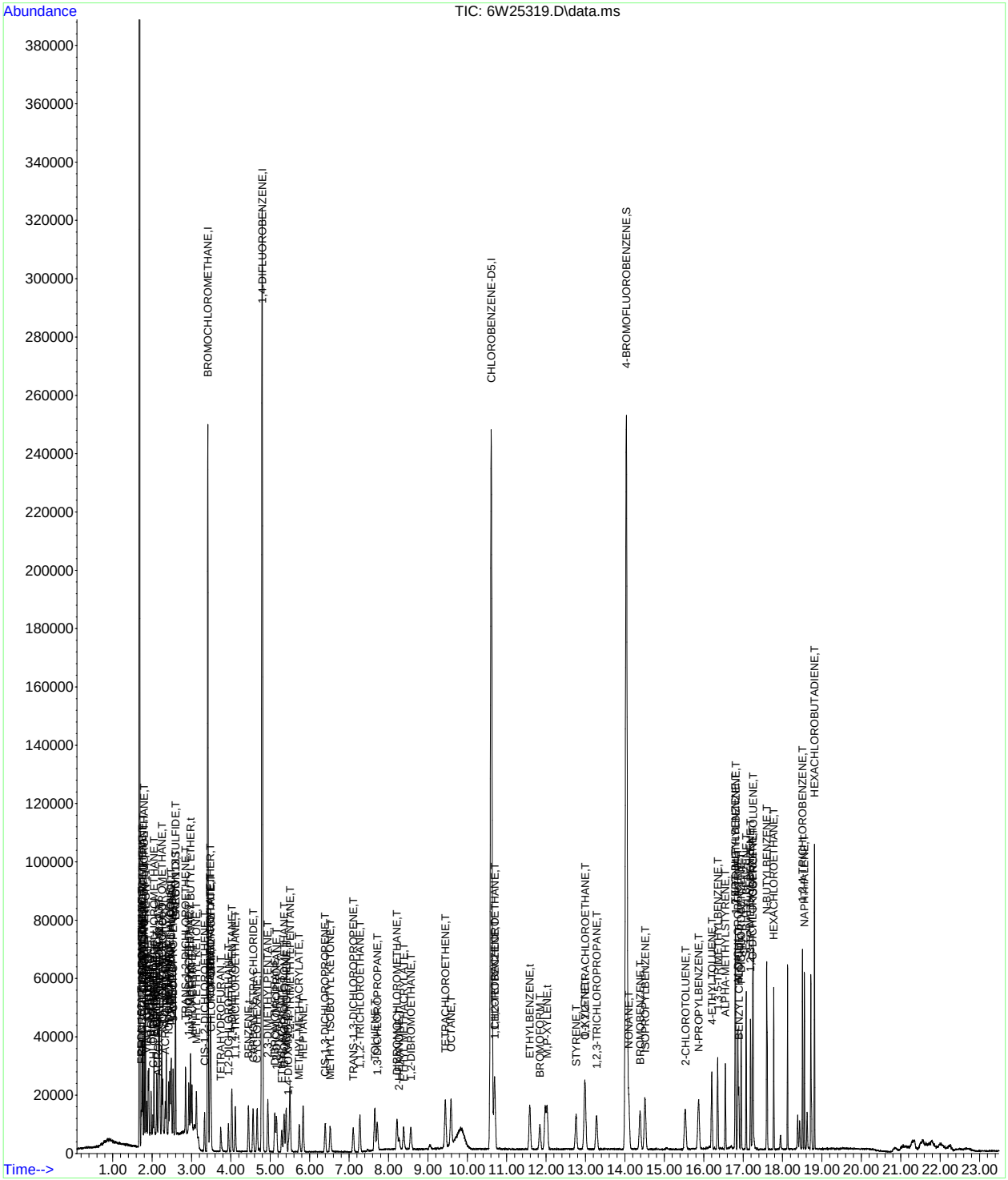
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.293 | 55 | 8348 | 0.47 | PPBV | # | 96 |
| 59) BROMODICHLOROMETHANE | 5.351 | 83 | 8015 | 0.50 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.499 | 57 | 20236 | 0.57 | PPBV | # | 98 |
| 61) 1,4-DIOXANE | 5.457 | 88 | 2225 | 0.42 | PPBV | # | 37 |
| 62) HEPTANE | 5.833 | 43 | 7203 | 0.56 | PPBV | # | 80 |
| 63) METHYL METHACRYLATE | 5.730 | 69 | 3857 | 0.45 | PPBV | # | 65 |
| 64) METHYL ISOBUTYL KETONE | 6.521 | 58 | 3278 | 0.46 | PPBV | # | 79 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.393 | 75 | 6326 | 0.49 | PPBV | # | 73 |
| 66) TOLUENE | 7.660 | 91 | 13604 | 0.51 | PPBV | | 97 |
| 67) 1,3-DICHLOROPROPANE | 7.711 | 76 | 7158 | 0.53 | PPBV | | 97 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.107 | 75 | 5451 | 0.46 | PPBV | # | 74 |
| 69) 1,1,2-TRICHLOROETHANE | 7.274 | 83 | 4336 | 0.54 | PPBV | | 92 |
| 70) 2-HEXANONE | 8.264 | 58 | 1963 | 0.22 | PPBV | # | 65 |
| 71) ETHYL METHACRYLATE | 8.390 | 69 | 4986 | 0.36 | PPBV | # | 71 |
| 72) TETRACHLOROETHENE | 9.444 | 164 | 5367 | 0.54 | PPBV | | 98 |
| 73) DIBROMOCHLOROMETHANE | 8.213 | 129 | 7615 | 0.47 | PPBV | | 98 |
| 74) 1,2-DIBROMOETHANE | 8.570 | 107 | 7513 | 0.51 | PPBV | # | 98 |
| 75) OCTANE | 9.586 | 43 | 10510 | 0.59 | PPBV | # | 79 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.701 | 131 | 5595 | 0.49 | PPBV | | 92 |
| 78) CHLOROBENZENE | 10.692 | 112 | 11232 | 0.51 | PPBV | | 96 |
| 79) ETHYLBENZENE | 11.582 | 91 | 18278 | 0.51 | PPBV | | 98 |
| 80) M,P-XYLENE | 12.026 | 91 | 27689m | 1.00 | PPBV | | |
| 81) O-XYLENE | 12.975 | 91 | 14167 | 0.51 | PPBV | | 96 |
| 82) STYRENE | 12.762 | 104 | 9387 | 0.44 | PPBV | | 96 |
| 83) NONANE | 14.100 | 43 | 11384 | 0.60 | PPBV | # | 75 |
| 84) BROMOFORM | 11.846 | 173 | 6038 | 0.41 | PPBV | # | 94 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.994 | 83 | 11372 | 0.53 | PPBV | | 99 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.280 | 75 | 8362 | 0.52 | PPBV | # | 99 |
| 88) ISOPROPYLBENZENE | 14.511 | 120 | 5513 | 0.50 | PPBV | # | 83 |
| 89) BROMOBENZENE | 14.386 | 77 | 10583 | 0.53 | PPBV | | 91 |
| 90) 2-CHLOROTOLUENE | 15.540 | 126 | 5100 | 0.51 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.872 | 120 | 5647 | 0.50 | PPBV | # | 87 |
| 92) 4-ETHYLTOLUENE | 16.206 | 105 | 18888 | 0.46 | PPBV | | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.354 | 105 | 15977 | 0.47 | PPBV | | 98 |
| 94) ALPHA-METHYLSTYRENE | 16.550 | 118 | 6900 | 0.40 | PPBV | | 98 |
| 95) TERT-BUTYLBENZENE | 16.798 | 134 | 4036 | 0.49 | PPBV | | 95 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.807 | 105 | 16078 | 0.46 | PPBV | | 98 |
| 97) BENZYL CHLORIDE | 16.891 | 91 | 11322 | 0.37 | PPBV | | 97 |
| 98) M-DICHLOROBENZENE | 16.868 | 146 | 11438 | 0.48 | PPBV | | 97 |
| 99) P-DICHLOROBENZENE | 16.949 | 146 | 11939 | 0.49 | PPBV | | 95 |
| 100) O-DICHLOROBENZENE | 17.238 | 146 | 11063 | 0.48 | PPBV | | 97 |
| 101) SEC-BUTYLBENZENE | 17.074 | 134 | 4875 | 0.47 | PPBV | | 99 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.187 | 105 | 16013 | 0.47 | PPBV | # | 97 |
| 103) P-ISOPROPYLTOLUENE | 17.254 | 134 | 5588 | 0.48 | PPBV | | 93 |
| 104) N-BUTYLBENZENE | 17.598 | 134 | 4919 | 0.44 | PPBV | | 87 |
| 105) HEXACHLOROETHANE | 17.778 | 117 | 5729 | 0.42 | PPBV | # | 90 |
| 106) HEXACHLOROBUTADIENE | 18.810 | 225 | 8824 | 0.52 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.505 | 180 | 10315 | 0.45 | PPBV | | 99 |
| 108) NAPHTHALENE | 18.556 | 128 | 25743 | 0.43 | PPBV | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25319.D
Acq On : 4 Aug 2022 8:11 pm
Operator : thomash
Sample : ic1077-0.5
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:38:14 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V6W1077-IC1077
**Lab FileID:** 6W25319.D
**Injection Time:** 08/04/22 20:11

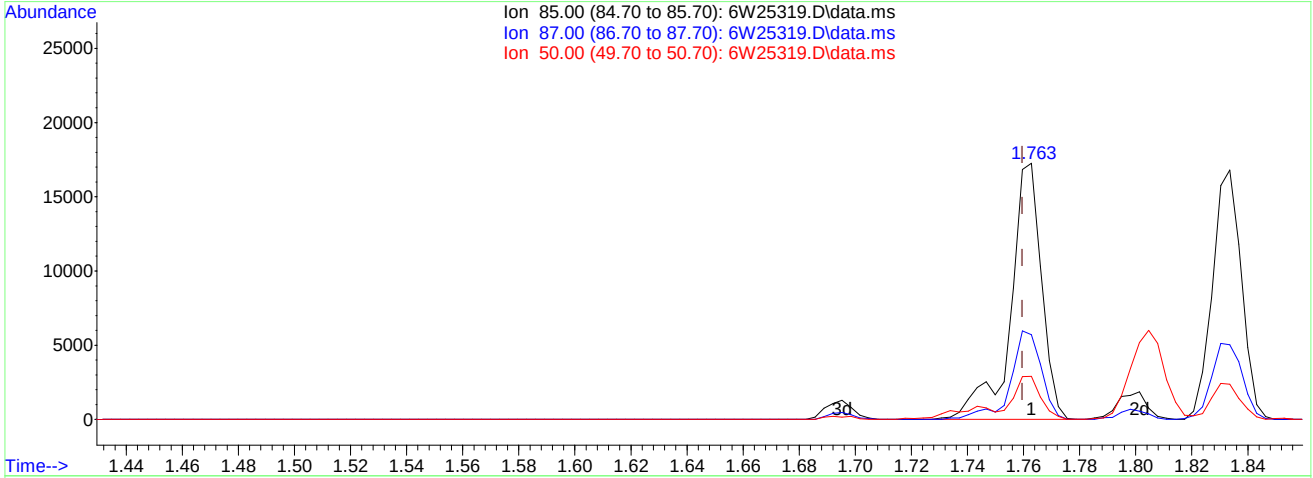
**Method:** TO-15
**Analyst approved:** 08/05/22 10:02 Thomas Hilbig
**Supervisor approved:** 08/08/22 10:23 Kanya Veerawat

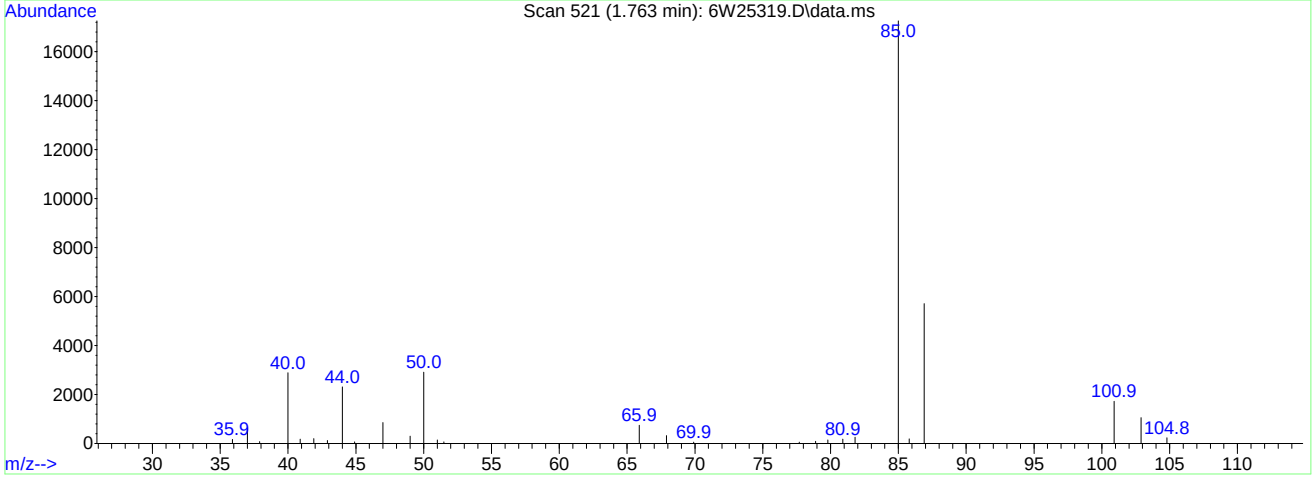
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.76 | Overlapping peak |
| m,p-Xylene | | | 12.03 | Split peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25319.D
Acq On : 4 Aug 2022 8:11 pm
Operator : thomash
Sample : ic1077-0.5
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:36:55 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25319.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.763min (+0.003) 0.63PPBV

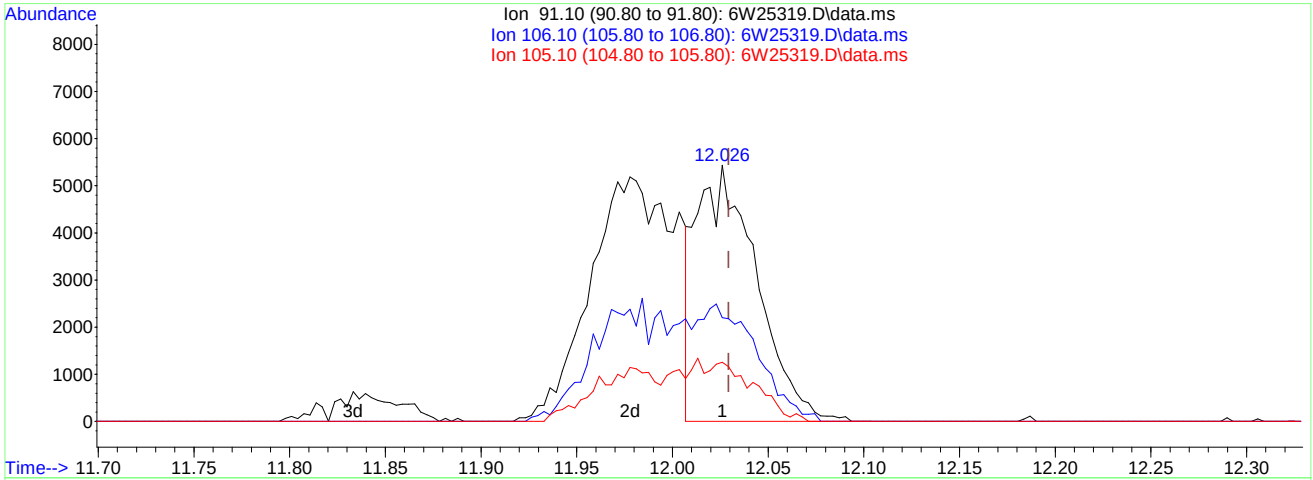
response 13343

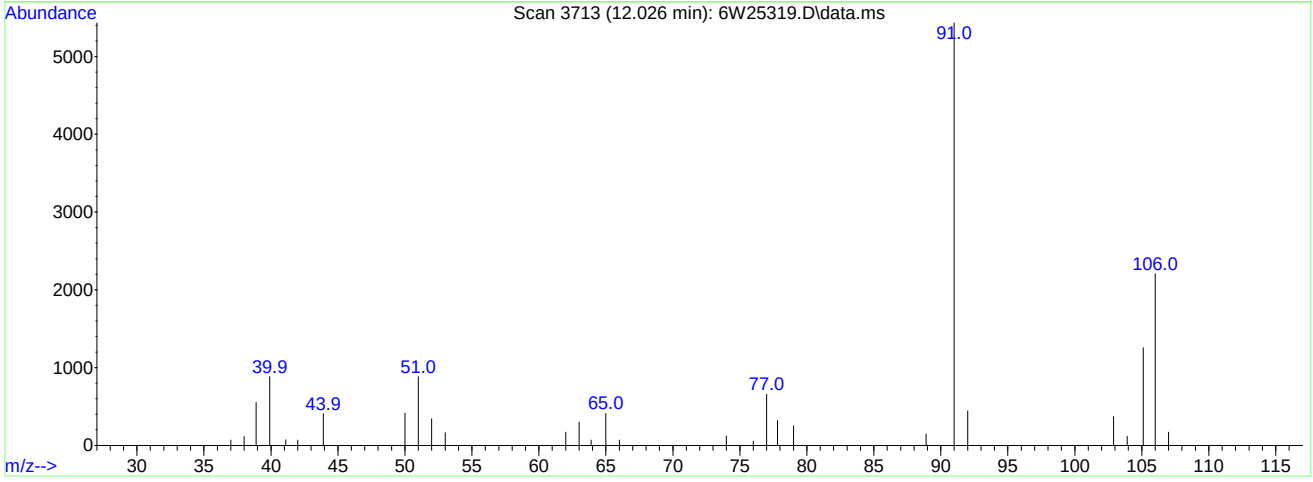
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 33.96 |
| 50.00 | 9.30 | 21.27# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25319.D
Acq On : 4 Aug 2022 8:11 pm
Operator : thomash
Sample : ic1077-0.5
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:36:55 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25319.D\data.ms

(80) M,P-XYLENE (t)

12.026min (-0.003) 0.43PPBV

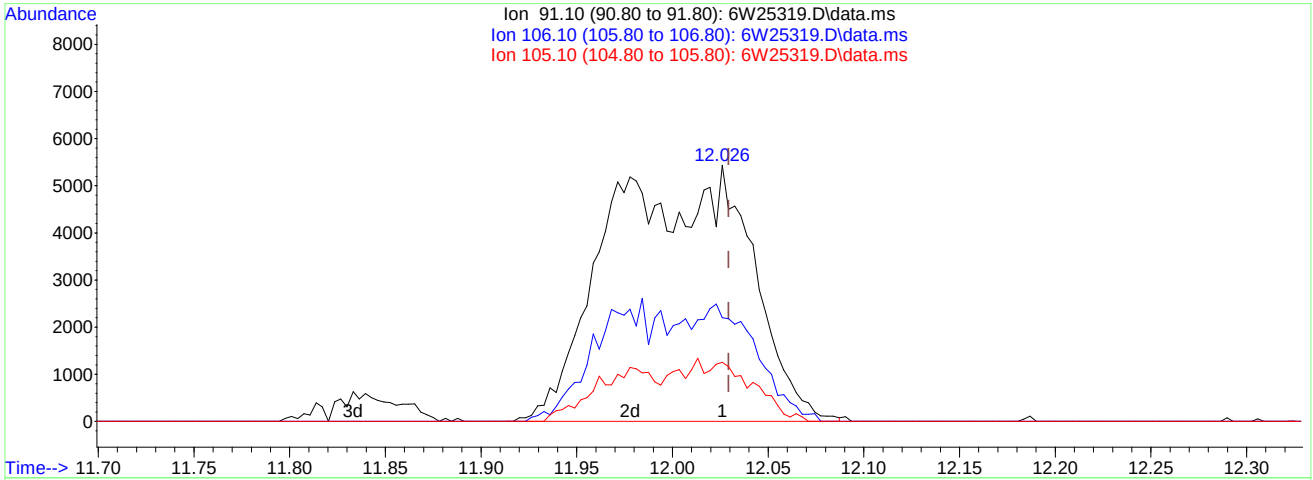
response 11881

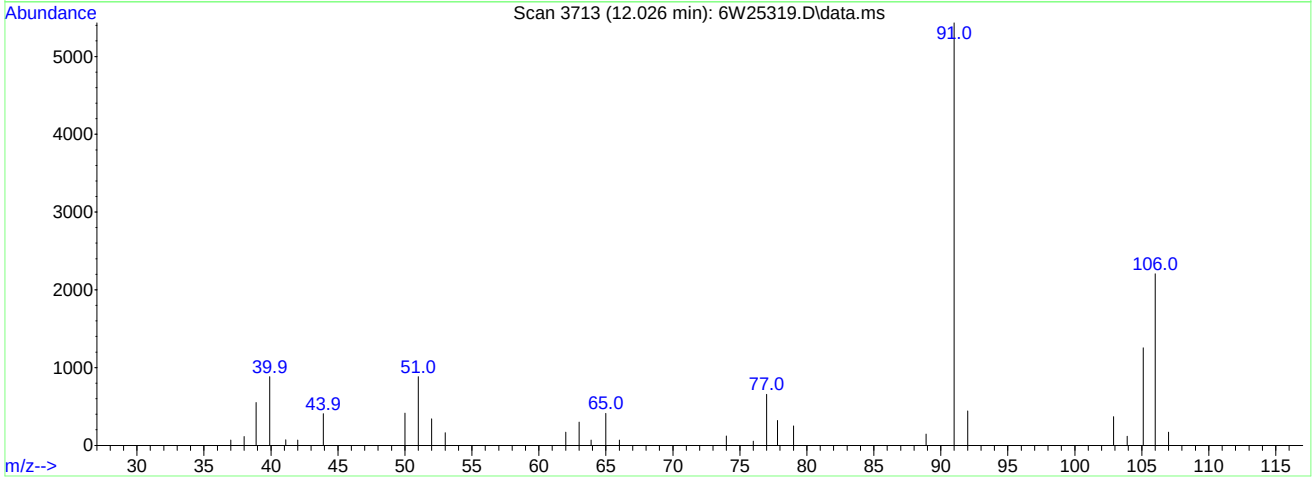
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 67.97 |
| 105.10 | 23.60 | 29.83 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25319.D
Acq On : 4 Aug 2022 8:11 pm
Operator : thomash
Sample : ic1077-0.5
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:36:55 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25319.D\data.ms

(80) M,P-XYLENE (t)

12.026min (-0.003) 1.00PPBV m

response 27689

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 29.16# |
| 105.10 | 23.60 | 12.80 |
| 0.00 | 0.00 | 0.00 |





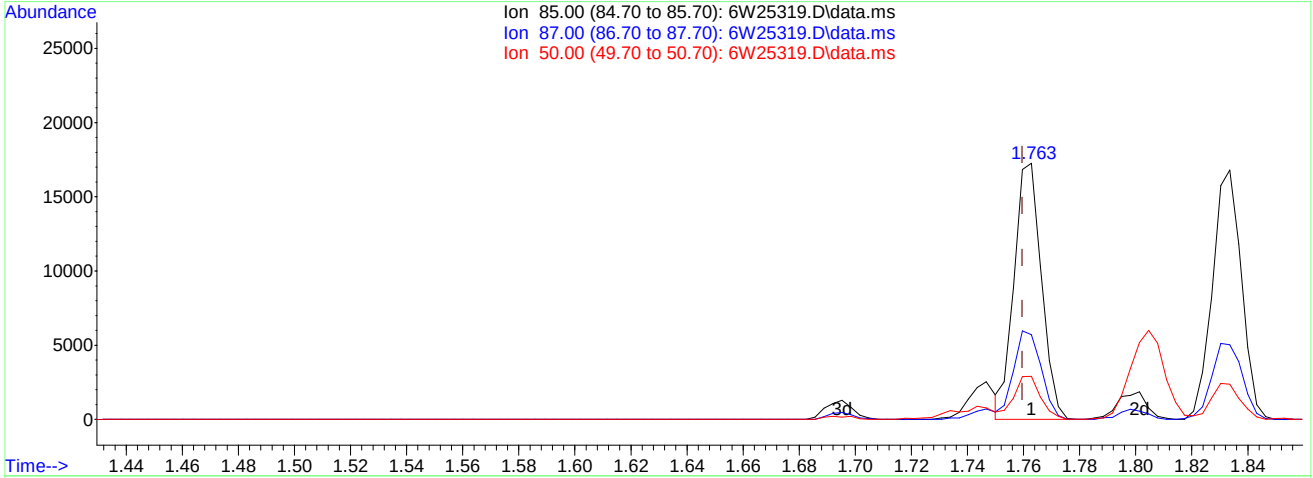


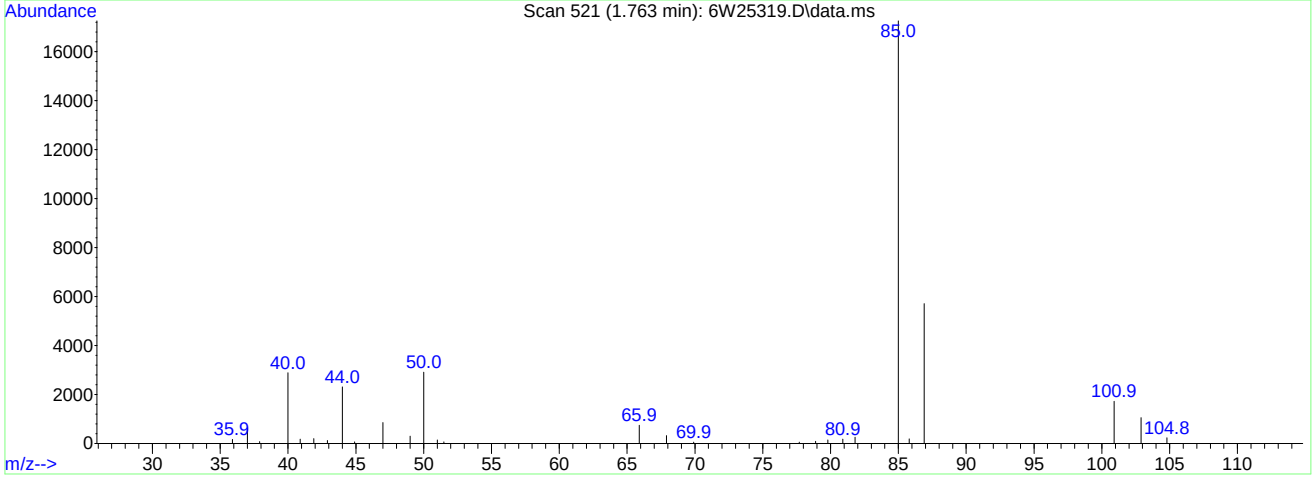
6W25319.D edits: M,P-XYLENE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25319.D
Acq On : 4 Aug 2022 8:11 pm
Operator : thomash
Sample : ic1077-0.5
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:38:14 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25319.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.763min (+0.003) 0.55PPBV m

response 11717

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 38.67# |
| 50.00 | 9.30 | 24.22# |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/22 10:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25321.D
Acq On : 4 Aug 2022 9:41 pm
Operator : thomash
Sample : ic1077-5
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:40:07 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.412 | 128 | 44624 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.792 | 114 | 241425 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.608 | 117 | 213770 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.032 | 95 | 149135 | 9.95 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.721 | 65 | 18976 | 5.15 | PPBV | # | 81 |
| 4) CHLORODIFLUOROMETHANE | 1.734 | 67 | 8520 | 5.19 | PPBV | | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.743 | 116 | 41577 | 4.71 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.760 | 85 | 106484m | 5.04 | PPBV | | |
| 7) PROPYLENE | 1.743 | 41 | 27040 | 5.47 | PPBV | | 97 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.798 | 65 | 107071 | 5.48 | PPBV | # | 84 |
| 9) FREON 114 | 1.830 | 85 | 109345 | 5.17 | PPBV | | 94 |
| 10) CHLOROMETHANE | 1.801 | 52 | 13639 | 5.82 | PPBV | | 94 |
| 11) VINYL CHLORIDE | 1.862 | 62 | 45281 | 5.45 | PPBV | | 98 |
| 12) 1,3-BUTADIENE | 1.901 | 54 | 36562 | 5.72 | PPBV | # | 70 |
| 13) N-BUTANE | 1.914 | 43 | 73675 | 6.08 | PPBV | # | 87 |
| 14) BROMOMETHANE | 1.975 | 94 | 36741 | 5.16 | PPBV | | 98 |
| 15) CHLOROETHANE | 2.020 | 64 | 23459 | 5.56 | PPBV | | 95 |
| 16) DICHLOROFLUOROMETHANE | 2.046 | 67 | 98923 | 5.46 | PPBV | # | 94 |
| 17) ACETONITRILE | 2.113 | 41 | 45951 | 6.32 | PPBV | | 96 |
| 18) ACROLEIN | 2.152 | 56 | 17902 | 5.67 | PPBV | | 98 |
| 19) FREON 123 | 2.165 | 83 | 91627 | 5.03 | PPBV | | 98 |
| 20) FREON 123A | 2.184 | 117 | 50561 | 4.96 | PPBV | # | 72 |
| 21) TRICHLOROFLUOROMETHANE | 2.245 | 101 | 108660 | 5.00 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.264 | 45 | 102760 | 5.84 | PPBV | # | 97 |
| 23) ACETONE | 2.190 | 58 | 26910 | 5.74 | PPBV | # | 56 |
| 24) PENTANE | 2.358 | 42 | 51866 | 5.96 | PPBV | # | 92 |
| 25) IODOMETHANE | 2.419 | 142 | 99043 | 4.93 | PPBV | # | 81 |
| 26) 1,1-DICHLOROETHYLENE | 2.448 | 96 | 38643 | 4.98 | PPBV | # | 51 |
| 27) CARBON DISULFIDE | 2.592 | 76 | 121275 | 5.15 | PPBV | # | 83 |
| 28) ETHANOL | 2.052 | 45 | 22995 | 5.96 | PPBV | # | 97 |
| 29) BROMOETHENE | 2.120 | 106 | 36291 | 4.91 | PPBV | # | 96 |
| 30) ACRYLONITRILE | 2.332 | 52 | 35304 | 5.82 | PPBV | | 96 |
| 31) METHYLENE CHLORIDE | 2.486 | 84 | 36946 | 5.15 | PPBV | # | 53 |
| 32) 3-CHLOROPROPENE | 2.531 | 76 | 19748 | 4.93 | PPBV | # | 1 |
| 33) FREON 113 | 2.592 | 151 | 65464 | 4.84 | PPBV | | 88 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.850 | 96 | 42382 | 5.02 | PPBV | # | 72 |
| 35) TERTIARY BUTYL ALCOHOL | 2.464 | 59 | 107679 | 5.27 | PPBV | # | 81 |
| 36) METHYL TERTIARY BUTYL ... | 2.969 | 73 | 127009 | 5.06 | PPBV | # | 90 |
| 37) TETRAHYDROFURAN | 3.727 | 72 | 16515 | 4.86 | PPBV | # | 62 |
| 38) HEXANE | 3.467 | 57 | 58629 | 5.31 | PPBV | # | 77 |
| 39) VINYL ACETATE | 3.007 | 86 | 10760 | 4.71 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.933 | 63 | 85022 | 5.56 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.120 | 72 | 22666 | 5.18 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.332 | 96 | 34605 | 4.77 | PPBV | # | 83 |
| 43) DIISOPROPYL ETHER | 3.473 | 59 | 18414 | 5.41 | PPBV | | 68 |
| 44) ETHYL ACETATE | 3.480 | 61 | 12431 | 5.07 | PPBV | # | 35 |
| 45) METHYL ACRYLATE | 3.467 | 55 | 75388 | 5.33 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.496 | 83 | 73067 | 4.98 | PPBV | # | 93 |
| 47) 2,4-DIMETHYLPENTANE | 4.023 | 57 | 68015 | 5.27 | PPBV | | 95 |
| 48) 1,1,1-TRICHLOROETHANE | 4.110 | 97 | 72005 | 4.97 | PPBV | | 96 |
| 49) CARBON TETRACHLORIDE | 4.563 | 117 | 72408 | 4.89 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.936 | 62 | 52091 | 5.36 | PPBV | # | 95 |
| 51) BENZENE | 4.444 | 78 | 104846 | 4.93 | PPBV | | 86 |
| 53) CYCLOHEXANE | 4.666 | 84 | 45755 | 4.88 | PPBV | | 86 |
| 54) 2,3-DIMETHYLPENTANE | 4.936 | 71 | 24017 | 4.97 | PPBV | # | 71 |
| 55) TRICHLOROETHENE | 5.402 | 95 | 46865 | 4.79 | PPBV | | 97 |
| 56) 1,2-DICHLOROPROPANE | 5.158 | 63 | 41972 | 5.21 | PPBV | | 95 |
| 57) DIBROMOMETHANE | 5.120 | 174 | 42942 | 4.85 | PPBV | | 89 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25321.D
Acq On : 4 Aug 2022 9:41 pm
Operator : thomash
Sample : ic1077-5
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:40:07 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

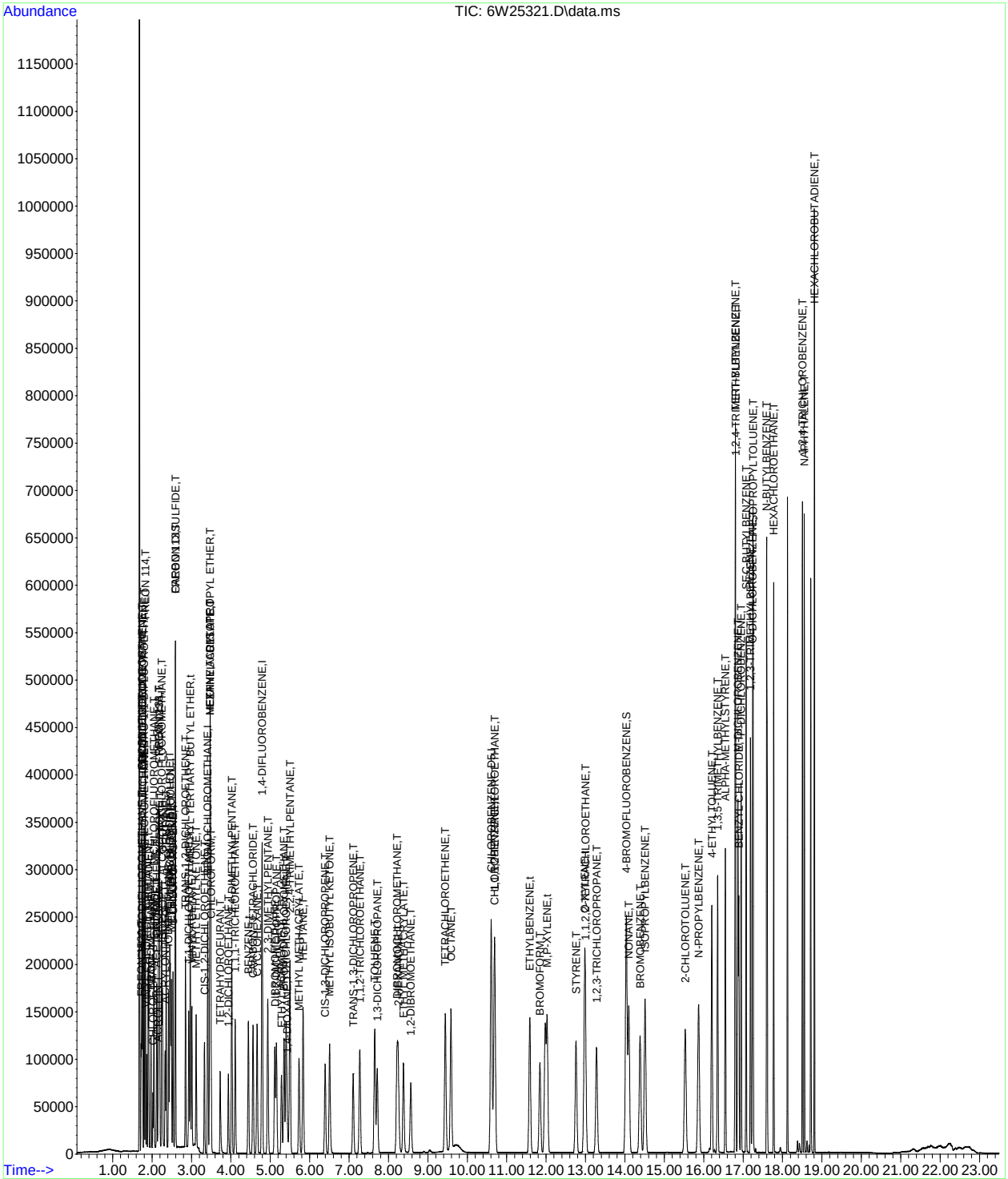
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 58) | ETHYL ACRYLATE | 5.284 | 55 | 90278 | 5.09 | PPBV | | 98 |
| 59) | BROMODICHLOROMETHANE | 5.348 | 83 | 79968 | 5.01 | PPBV | | 100 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.499 | 57 | 186538 | 5.30 | PPBV | | 98 |
| 61) | 1,4-DIOXANE | 5.428 | 88 | 24963 | 4.73 | PPBV | # | 86 |
| 62) | HEPTANE | 5.833 | 43 | 70156 | 5.53 | PPBV | # | 79 |
| 63) | METHYL METHACRYLATE | 5.730 | 69 | 40191 | 4.79 | PPBV | # | 63 |
| 64) | METHYL ISOBUTYL KETONE | 6.505 | 58 | 36872 | 5.20 | PPBV | # | 70 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.393 | 75 | 61001 | 4.81 | PPBV | # | 75 |
| 66) | TOLUENE | 7.650 | 91 | 125852 | 4.74 | PPBV | | 100 |
| 67) | 1,3-DICHLOROPROPANE | 7.718 | 76 | 65691 | 4.91 | PPBV | | 98 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.107 | 75 | 56873 | 4.80 | PPBV | # | 77 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.274 | 83 | 39287 | 4.96 | PPBV | | 98 |
| 70) | 2-HEXANONE | 8.248 | 58 | 45013 | 5.12 | PPBV | # | 68 |
| 71) | ETHYL METHACRYLATE | 8.380 | 69 | 64649 | 4.74 | PPBV | # | 76 |
| 72) | TETRACHLOROETHENE | 9.441 | 164 | 47447 | 4.81 | PPBV | | 95 |
| 73) | DIBROMOCHLOROMETHANE | 8.216 | 129 | 76354 | 4.76 | PPBV | | 99 |
| 74) | 1,2-DIBROMOETHANE | 8.566 | 107 | 70408 | 4.84 | PPBV | | 98 |
| 75) | OCTANE | 9.582 | 43 | 96680 | 5.49 | PPBV | # | 80 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.695 | 131 | 53472 | 4.67 | PPBV | | 95 |
| 78) | CHLOROBENZENE | 10.685 | 112 | 104120 | 4.78 | PPBV | | 98 |
| 79) | ETHYLBENZENE | 11.582 | 91 | 169901 | 4.76 | PPBV | | 99 |
| 80) | M,P-XYLENE | 12.023 | 91 | 260894 | 9.48 | PPBV | # | 63 |
| 81) | O-XYLENE | 12.978 | 91 | 132479 | 4.77 | PPBV | | 97 |
| 82) | STYRENE | 12.759 | 104 | 99814 | 4.67 | PPBV | | 97 |
| 83) | NONANE | 14.100 | 43 | 103942 | 5.52 | PPBV | # | 79 |
| 84) | BROMOFORM | 11.843 | 173 | 70364 | 4.76 | PPBV | # | 98 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 13.000 | 83 | 103159 | 4.82 | PPBV | | 99 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.286 | 75 | 77791 | 4.87 | PPBV | # | 100 |
| 88) | ISOPROPYLBENZENE | 14.508 | 120 | 51065 | 4.67 | PPBV | | 86 |
| 89) | BROMOBENZENE | 14.386 | 77 | 96418 | 4.79 | PPBV | | 95 |
| 90) | 2-CHLOROTOLUENE | 15.534 | 126 | 46298 | 4.61 | PPBV | | 99 |
| 91) | N-PROPYLBENZENE | 15.868 | 120 | 51427 | 4.57 | PPBV | | 99 |
| 92) | 4-ETHYLTOLUENE | 16.206 | 105 | 189029 | 4.62 | PPBV | | 99 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.351 | 105 | 155772 | 4.61 | PPBV | # | 98 |
| 94) | ALPHA-METHYLSTYRENE | 16.547 | 118 | 77940 | 4.56 | PPBV | | 98 |
| 95) | TERT-BUTYLBENZENE | 16.801 | 134 | 38621 | 4.65 | PPBV | | 100 |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.807 | 105 | 162703 | 4.64 | PPBV | | 95 |
| 97) | BENZYL CHLORIDE | 16.891 | 91 | 129671 | 4.23 | PPBV | | 97 |
| 98) | M-DICHLOROBENZENE | 16.868 | 146 | 109302 | 4.62 | PPBV | | 99 |
| 99) | P-DICHLOROBENZENE | 16.949 | 146 | 112004 | 4.62 | PPBV | | 98 |
| 100) | O-DICHLOROBENZENE | 17.238 | 146 | 105429 | 4.61 | PPBV | | 98 |
| 101) | SEC-BUTYLBENZENE | 17.077 | 134 | 47808 | 4.57 | PPBV | | 98 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.187 | 105 | 157744 | 4.65 | PPBV | # | 98 |
| 103) | P-ISOPROPYLTOLUENE | 17.254 | 134 | 54130 | 4.64 | PPBV | | 99 |
| 104) | N-BUTYLBENZENE | 17.595 | 134 | 52047 | 4.67 | PPBV | | 94 |
| 105) | HEXACHLOROETHANE | 17.775 | 117 | 62734 | 4.57 | PPBV | | 91 |
| 106) | HEXACHLOROBUTADIENE | 18.810 | 225 | 88412 | 5.20 | PPBV | | 99 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.505 | 180 | 105692 | 4.64 | PPBV | | 99 |
| 108) | NAPHTHALENE | 18.553 | 128 | 275457 | 4.60 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25321.D
Acq On : 4 Aug 2022 9:41 pm
Operator : thomash
Sample : ic1077-5
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:40:07 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V6W1077-IC1077
**Lab FileID:** 6W25321.D
**Injection Time:** 08/04/22 21:41

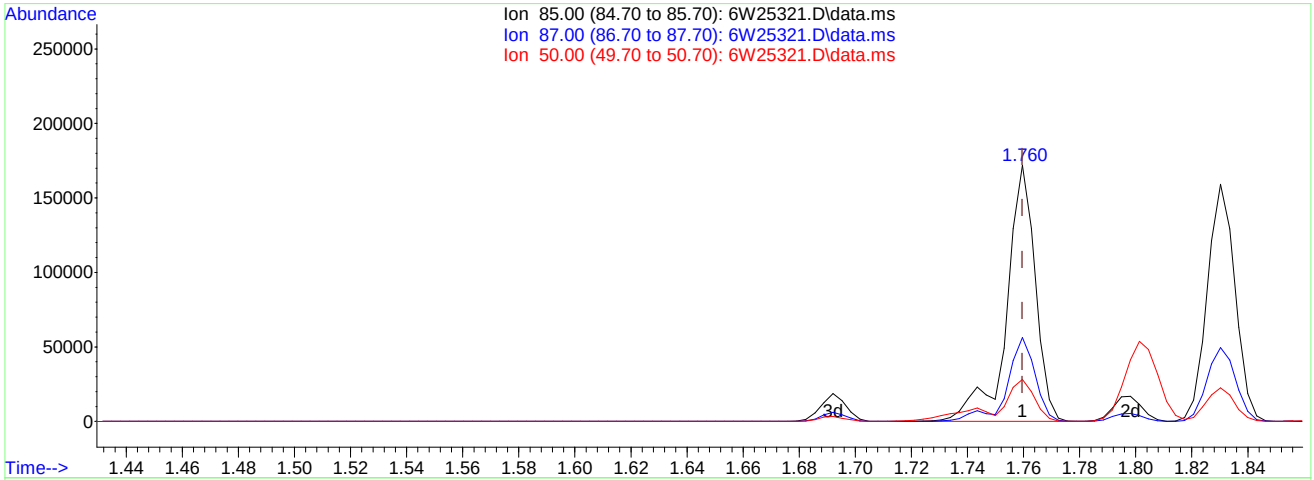
**Method:** TO-15
**Analyst approved:** 08/05/22 10:02 Thomas Hilbig
**Supervisor approved:** 08/08/22 10:23 Kanya Veerawat

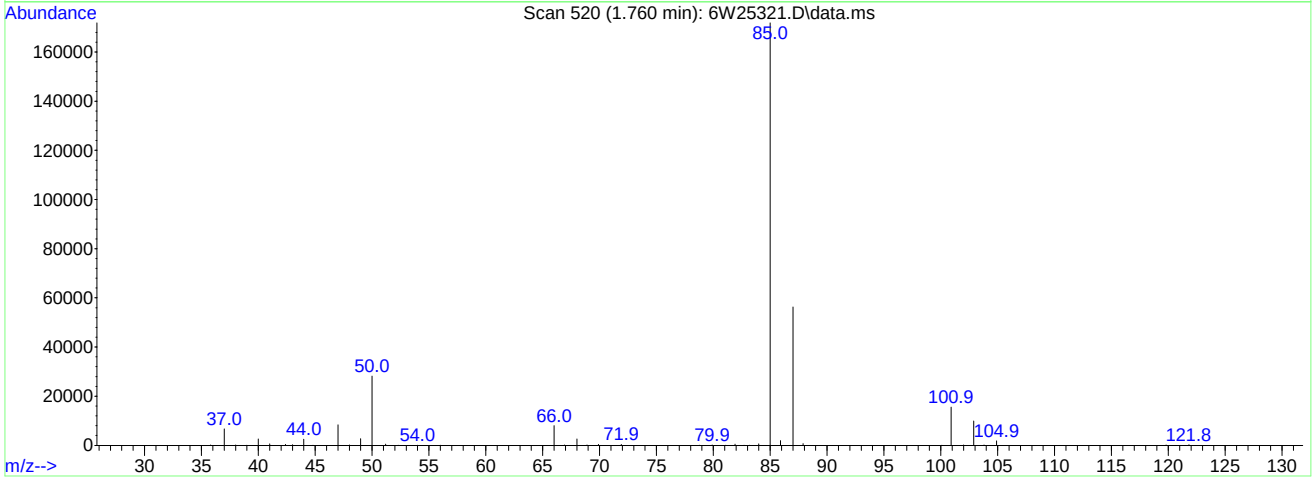
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.76 | Overlapping peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25321.D
Acq On : 4 Aug 2022 9:41 pm
Operator : thomash
Sample : ic1077-5
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:39:39 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25321.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.760min (+0.000) 5.79PPBV

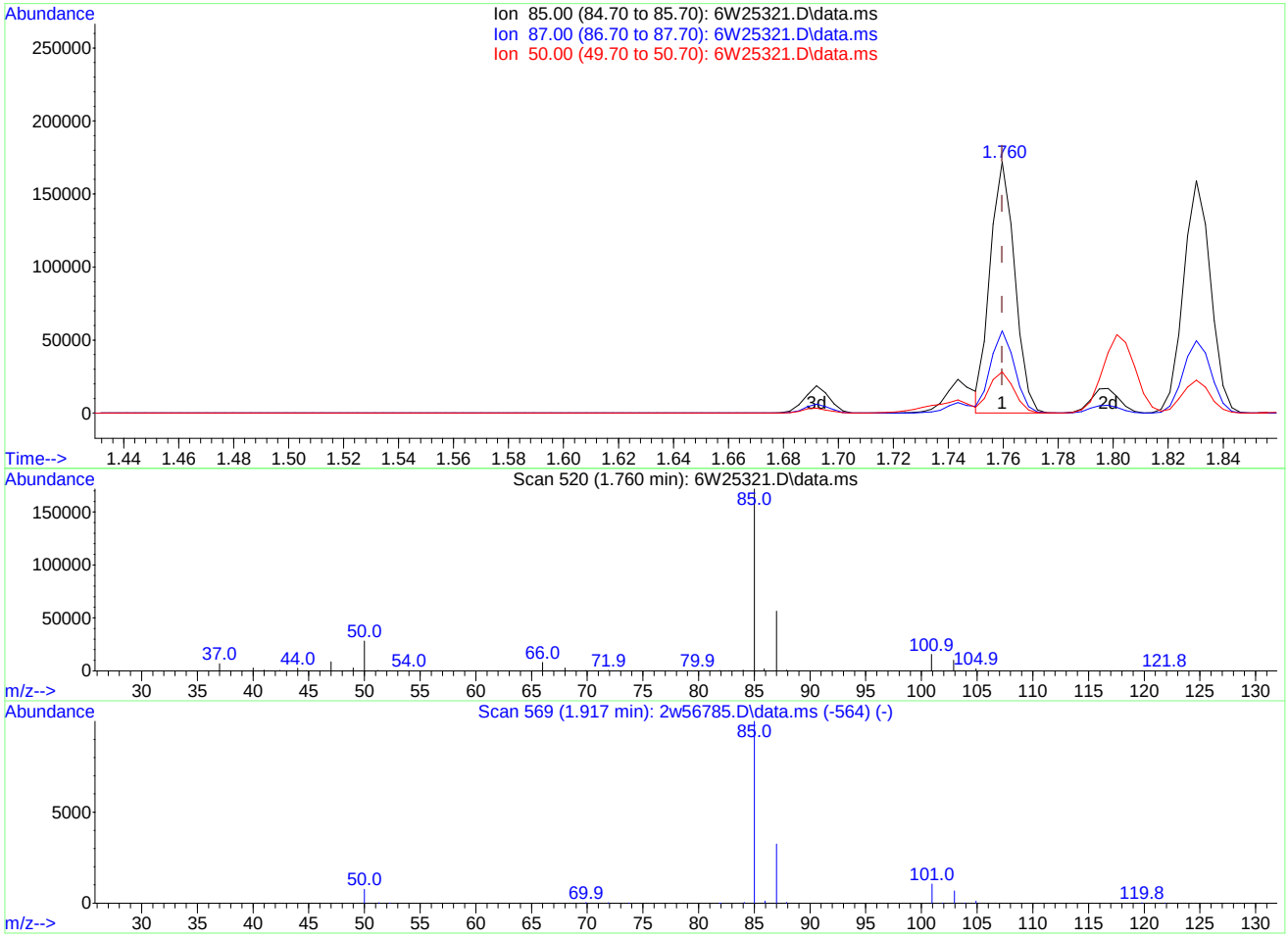
response 122401

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 31.96 |
| 50.00 | 9.30 | 21.95# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25321.D
Acq On : 4 Aug 2022 9:41 pm
Operator : thomash
Sample : ic1077-5
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:39:39 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25321.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.760min (+0.000) 5.04PPBV m

response 106484

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 36.74 |
| 50.00 | 9.30 | 25.23# |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/22 10:23

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25322.D
Acq On : 4 Aug 2022 10:26 pm
Operator : thomash
Sample : icc1077-10
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:44:00 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.415 | 128 | 46792 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.795 | 114 | 248358 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.605 | 117 | 220143 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.036 | 95 | 154466 | 10.00 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.721 | 65 | 38822 | 10.06 | PPBV | # | 81 |
| 4) CHLORODIFLUOROMETHANE | 1.734 | 67 | 17709 | 10.28 | PPBV | | 97 |
| 5) CHLOROTRIFLUOROETHENE | 1.743 | 116 | 86829 | 9.38 | PPBV | # | 99 |
| 6) DICHLORODIFLUOROMETHANE | 1.760 | 85 | 219494m | 9.91 | PPBV | | |
| 7) PROPYLENE | 1.743 | 41 | 56537 | 10.90 | PPBV | | 98 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.798 | 65 | 218284 | 10.66 | PPBV | # | 84 |
| 9) FREON 114 | 1.830 | 85 | 222721 | 10.03 | PPBV | | 94 |
| 10) CHLOROMETHANE | 1.801 | 52 | 28590 | 11.64 | PPBV | | 93 |
| 11) VINYL CHLORIDE | 1.862 | 62 | 93051 | 10.67 | PPBV | | 98 |
| 12) 1,3-BUTADIENE | 1.901 | 54 | 75167 | 11.22 | PPBV | # | 71 |
| 13) N-BUTANE | 1.914 | 43 | 151966 | 11.95 | PPBV | # | 92 |
| 14) BROMOMETHANE | 1.975 | 94 | 74339 | 9.95 | PPBV | | 100 |
| 15) CHLOROETHANE | 2.020 | 64 | 47903 | 10.83 | PPBV | | 96 |
| 16) DICHLOROFLUOROMETHANE | 2.046 | 67 | 199797 | 10.51 | PPBV | # | 95 |
| 17) ACETONITRILE | 2.113 | 41 | 92360 | 12.11 | PPBV | | 97 |
| 18) ACROLEIN | 2.152 | 56 | 36301 | 10.97 | PPBV | | 98 |
| 19) FREON 123 | 2.165 | 83 | 189335 | 9.91 | PPBV | | 99 |
| 20) FREON 123A | 2.181 | 117 | 103820 | 9.70 | PPBV | # | 72 |
| 21) TRICHLOROFLUOROMETHANE | 2.245 | 101 | 222374 | 9.76 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.261 | 45 | 211110 | 11.44 | PPBV | # | 96 |
| 23) ACETONE | 2.190 | 58 | 55001 | 11.20 | PPBV | # | 56 |
| 24) PENTANE | 2.358 | 42 | 105352 | 11.55 | PPBV | # | 92 |
| 25) IODOMETHANE | 2.419 | 142 | 201925 | 9.58 | PPBV | # | 80 |
| 26) 1,1-DICHLOROETHYLENE | 2.448 | 96 | 79054 | 9.72 | PPBV | # | 50 |
| 27) CARBON DISULFIDE | 2.592 | 76 | 250468 | 10.14 | PPBV | # | 84 |
| 28) ETHANOL | 2.052 | 45 | 47291 | 11.70 | PPBV | # | 98 |
| 29) BROMOETHENE | 2.120 | 106 | 74833 | 9.65 | PPBV | # | 97 |
| 30) ACRYLONITRILE | 2.332 | 52 | 72286 | 11.37 | PPBV | | 96 |
| 31) METHYLENE CHLORIDE | 2.489 | 84 | 74759 | 9.94 | PPBV | # | 51 |
| 32) 3-CHLOROPROPENE | 2.531 | 76 | 41887 | 9.97 | PPBV | # | 1 |
| 33) FREON 113 | 2.592 | 151 | 132848 | 9.37 | PPBV | | 86 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.850 | 96 | 87527 | 9.89 | PPBV | # | 75 |
| 35) TERTIARY BUTYL ALCOHOL | 2.464 | 59 | 223606 | 10.44 | PPBV | # | 80 |
| 36) METHYL TERTIARY BUTYL ... | 2.968 | 73 | 261837 | 9.94 | PPBV | # | 91 |
| 37) TETRAHYDROFURAN | 3.727 | 72 | 34440 | 9.67 | PPBV | # | 62 |
| 38) HEXANE | 3.467 | 57 | 122450 | 10.58 | PPBV | # | 77 |
| 39) VINYL ACETATE | 3.010 | 86 | 22914 | 9.56 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.933 | 63 | 173566 | 10.83 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.116 | 72 | 47072 | 10.26 | PPBV | # | 4 |
| 42) CIS-1,2-DICHLOROETHENE | 3.332 | 96 | 73148 | 9.62 | PPBV | | 87 |
| 43) DIISOPROPYL ETHER | 3.473 | 59 | 37802 | 10.60 | PPBV | | 67 |
| 44) ETHYL ACETATE | 3.480 | 61 | 26112 | 10.15 | PPBV | # | 39 |
| 45) METHYL ACRYLATE | 3.467 | 55 | 156776 | 10.58 | PPBV | # | 98 |
| 46) CHLOROFORM | 3.496 | 83 | 151815 | 9.87 | PPBV | # | 94 |
| 47) 2,4-DIMETHYLPENTANE | 4.023 | 57 | 141942 | 10.49 | PPBV | | 95 |
| 48) 1,1,1-TRICHLOROETHANE | 4.110 | 97 | 148349 | 9.77 | PPBV | | 96 |
| 49) CARBON TETRACHLORIDE | 4.566 | 117 | 151276 | 9.74 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.939 | 62 | 105862 | 10.38 | PPBV | # | 96 |
| 51) BENZENE | 4.444 | 78 | 214825 | 9.63 | PPBV | | 85 |
| 53) CYCLOHEXANE | 4.669 | 84 | 93782 | 9.72 | PPBV | | 86 |
| 54) 2,3-DIMETHYLPENTANE | 4.939 | 71 | 48918 | 9.84 | PPBV | # | 68 |
| 55) TRICHLOROETHENE | 5.406 | 95 | 96406 | 9.57 | PPBV | | 98 |
| 56) 1,2-DICHLOROPROPANE | 5.158 | 63 | 85559 | 10.32 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.120 | 174 | 89212 | 9.79 | PPBV | | 90 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25322.D
Acq On : 4 Aug 2022 10:26 pm
Operator : thomash
Sample : icc1077-10
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:44:00 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

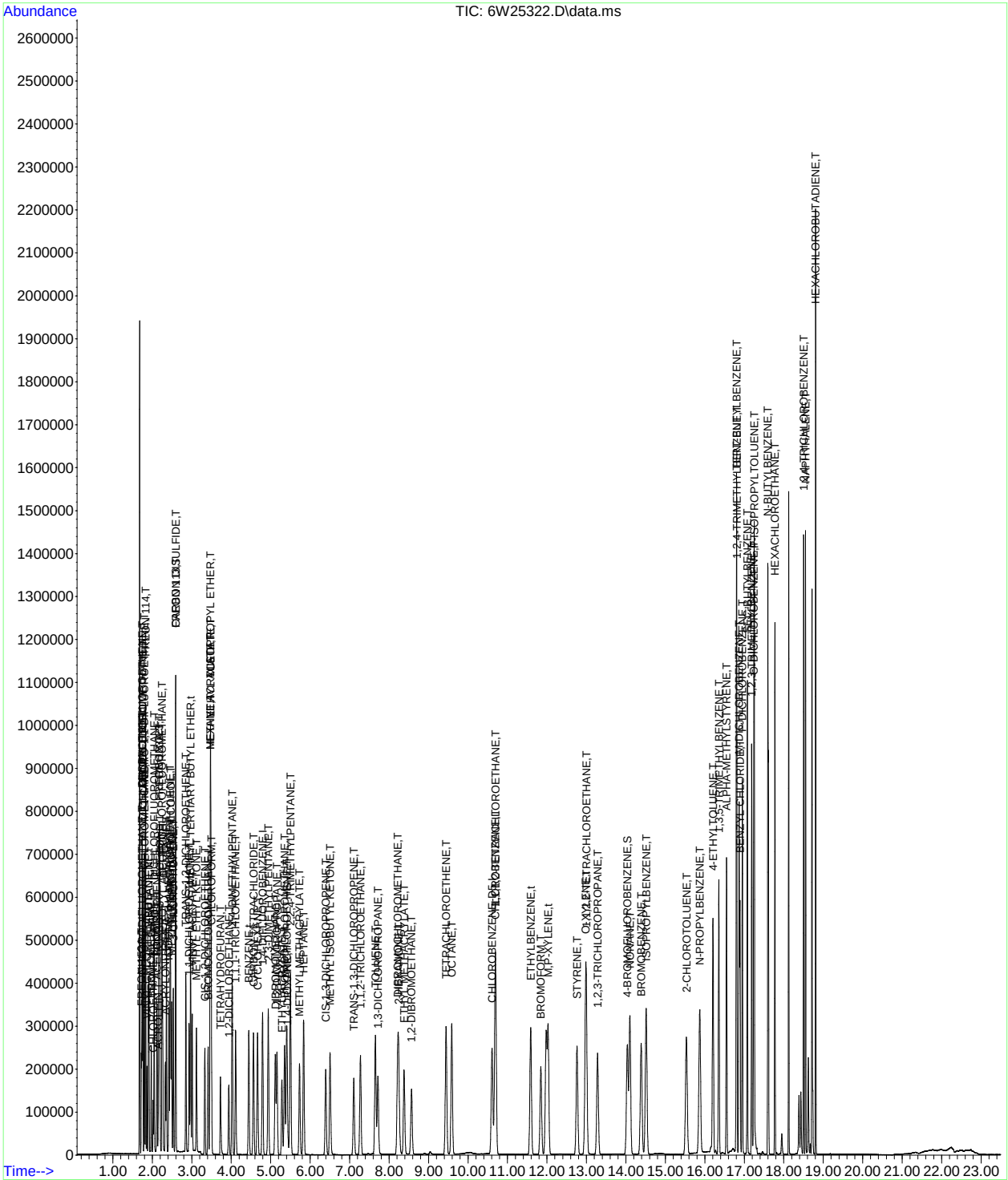
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.284 | 55 | 192549 | 10.55 | PPBV | | 97 |
| 59) BROMODICHLOROMETHANE | 5.351 | 83 | 166474 | 10.13 | PPBV | | 98 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.499 | 57 | 384916 | 10.62 | PPBV | | 97 |
| 61) 1,4-DIOXANE | 5.422 | 88 | 51860 | 9.55 | PPBV | # | 84 |
| 62) HEPTANE | 5.833 | 43 | 145572 | 11.15 | PPBV | # | 80 |
| 63) METHYL METHACRYLATE | 5.730 | 69 | 84156 | 9.75 | PPBV | # | 64 |
| 64) METHYL ISOBUTYL KETONE | 6.502 | 58 | 75979 | 10.42 | PPBV | # | 70 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.396 | 75 | 129426 | 9.92 | PPBV | # | 76 |
| 66) TOLUENE | 7.653 | 91 | 264569 | 9.69 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.714 | 76 | 137188 | 9.97 | PPBV | # | 97 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.103 | 75 | 118819 | 9.75 | PPBV | # | 78 |
| 69) 1,1,2-TRICHLOROETHANE | 7.274 | 83 | 79724 | 9.78 | PPBV | | 100 |
| 70) 2-HEXANONE | 8.245 | 58 | 94153 | 10.41 | PPBV | # | 70 |
| 71) ETHYL METHACRYLATE | 8.380 | 69 | 135444 | 9.65 | PPBV | # | 76 |
| 72) TETRACHLOROETHENE | 9.444 | 164 | 98632 | 9.72 | PPBV | | 96 |
| 73) DIBROMOCHLOROMETHANE | 8.216 | 129 | 162523 | 9.86 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.566 | 107 | 145590 | 9.72 | PPBV | | 100 |
| 75) OCTANE | 9.589 | 43 | 203279 | 11.21 | PPBV | # | 79 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.698 | 131 | 112918 | 9.58 | PPBV | | 94 |
| 78) CHLOROBENZENE | 10.685 | 112 | 214640 | 9.56 | PPBV | | 96 |
| 79) ETHYLBENZENE | 11.589 | 91 | 354193 | 9.64 | PPBV | | 99 |
| 80) M,P-XYLENE | 12.029 | 91 | 548383m | 19.35 | PPBV | | |
| 81) O-XYLENE | 12.978 | 91 | 279711 | 9.78 | PPBV | | 97 |
| 82) STYRENE | 12.762 | 104 | 211077 | 9.58 | PPBV | | 97 |
| 83) NONANE | 14.103 | 43 | 218217 | 11.25 | PPBV | # | 78 |
| 84) BROMOFORM | 11.846 | 173 | 152974 | 10.04 | PPBV | | 98 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.997 | 83 | 216387 | 9.82 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.280 | 75 | 161976 | 9.85 | PPBV | | 100 |
| 88) ISOPROPYLBENZENE | 14.511 | 120 | 108796 | 9.66 | PPBV | | 88 |
| 89) BROMOBENZENE | 14.386 | 77 | 201246 | 9.72 | PPBV | | 95 |
| 90) 2-CHLOROTOLUENE | 15.537 | 126 | 97180 | 9.39 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.868 | 120 | 110948 | 9.58 | PPBV | | 94 |
| 92) 4-ETHYLTOLUENE | 16.206 | 105 | 405879 | 9.62 | PPBV | | 100 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.354 | 105 | 328535 | 9.45 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.550 | 118 | 167145 | 9.49 | PPBV | | 98 |
| 95) TERT-BUTYLBENZENE | 16.801 | 134 | 84306 | 9.86 | PPBV | | 99 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.810 | 105 | 349884 | 9.70 | PPBV | | 96 |
| 97) BENZYL CHLORIDE | 16.891 | 91 | 292815 | 9.28 | PPBV | | 97 |
| 98) M-DICHLOROBENZENE | 16.868 | 146 | 231851 | 9.51 | PPBV | | 98 |
| 99) P-DICHLOROBENZENE | 16.949 | 146 | 238398 | 9.56 | PPBV | | 98 |
| 100) O-DICHLOROBENZENE | 17.238 | 146 | 224319 | 9.53 | PPBV | | 99 |
| 101) SEC-BUTYLBENZENE | 17.077 | 134 | 101517 | 9.43 | PPBV | | 99 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.187 | 105 | 337663 | 9.68 | PPBV | # | 98 |
| 103) P-ISOPROPYLTOLUENE | 17.254 | 134 | 118147 | 9.83 | PPBV | | 95 |
| 104) N-BUTYLBENZENE | 17.595 | 134 | 108867 | 9.49 | PPBV | | 91 |
| 105) HEXACHLOROETHANE | 17.775 | 117 | 139921 | 9.89 | PPBV | | 92 |
| 106) HEXACHLOROBUTADIENE | 18.807 | 225 | 191682 | 10.95 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.505 | 180 | 231572 | 9.87 | PPBV | | 99 |
| 108) NAPHTHALENE | 18.553 | 128 | 594992 | 9.65 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25322.D
Acq On : 4 Aug 2022 10:26 pm
Operator : thomash
Sample : icc1077-10
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:44:00 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



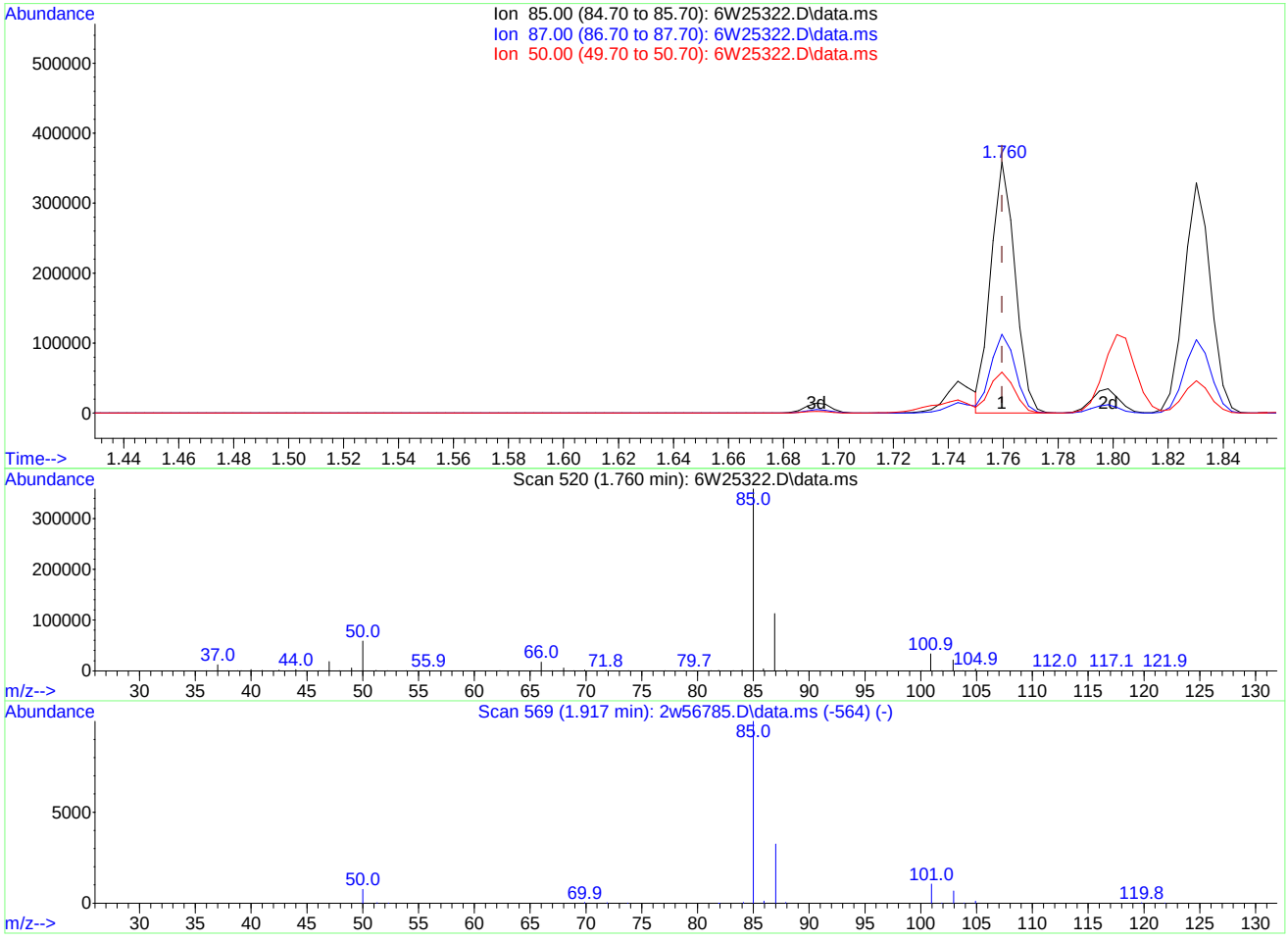
| | | | |
|---|---|---|---|
| **Sample Number:** | V6W1077-ICC1077 | **Method:** | TO-15 |
| **Lab FileID:** | 6W25322.D | **Analyst approved:** | 08/05/22 10:02 Thomas Hilbig |
| **Injection Time:** | 08/04/22 22:26 | **Supervisor approved:** | 08/08/22 10:23 Kanya Veerawat |

| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.76 | Overlapping peak |
| m,p-Xylene | | | 12.03 | Split peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25322.D
Acq On : 4 Aug 2022 10:26 pm
Operator : thomash
Sample : icc1077-10
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:42:05 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25322.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.760min (+0.000) 9.91PPBV m

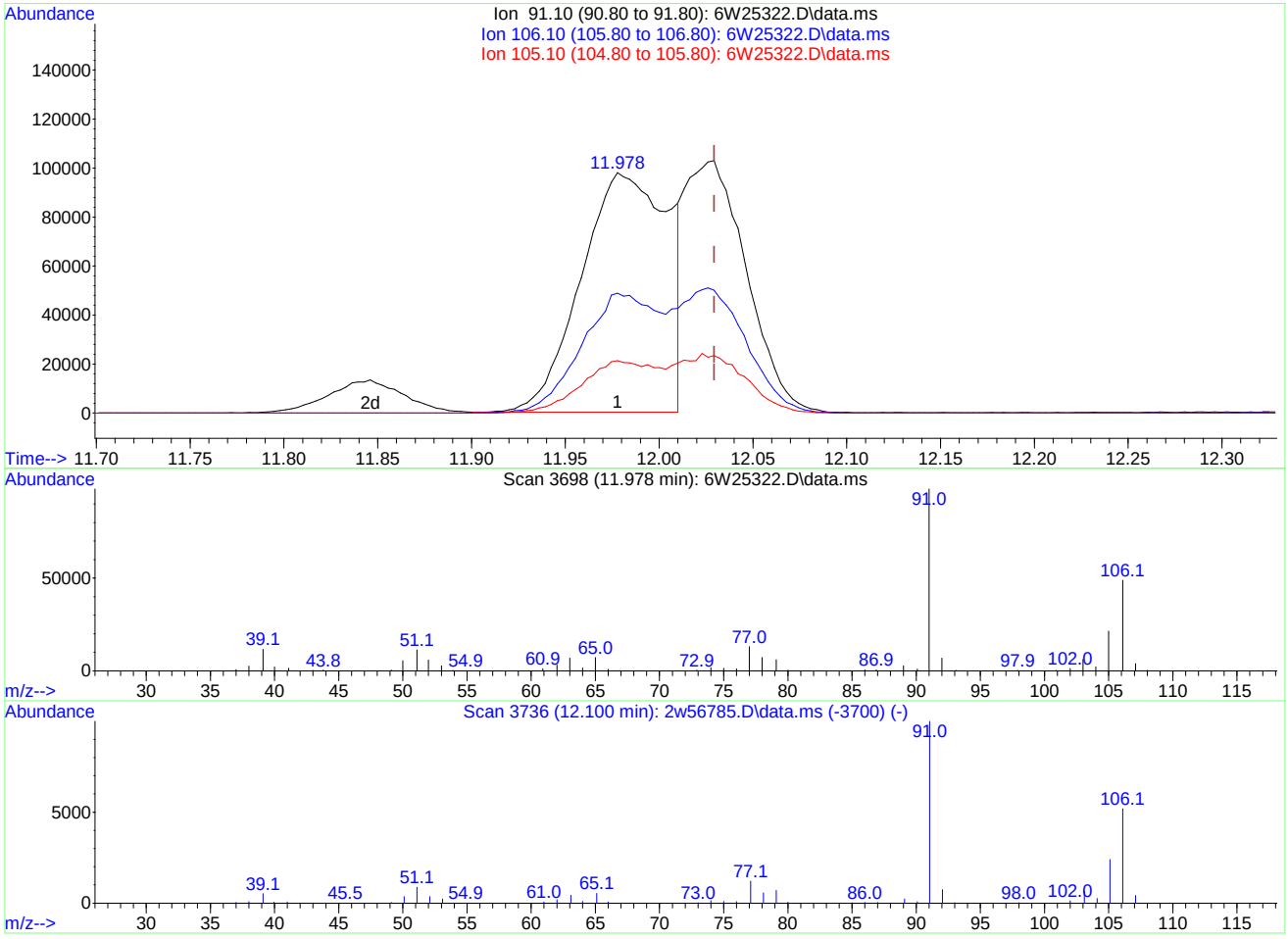
response 219494

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 36.74 |
| 50.00 | 9.30 | 25.30# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25322.D
Acq On : 4 Aug 2022 10:26 pm
Operator : thomash
Sample : icc1077-10
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:42:05 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25322.D\data.ms

(80) M,P-XYLENE (t)

11.978min (-0.051) 11.07PPBV

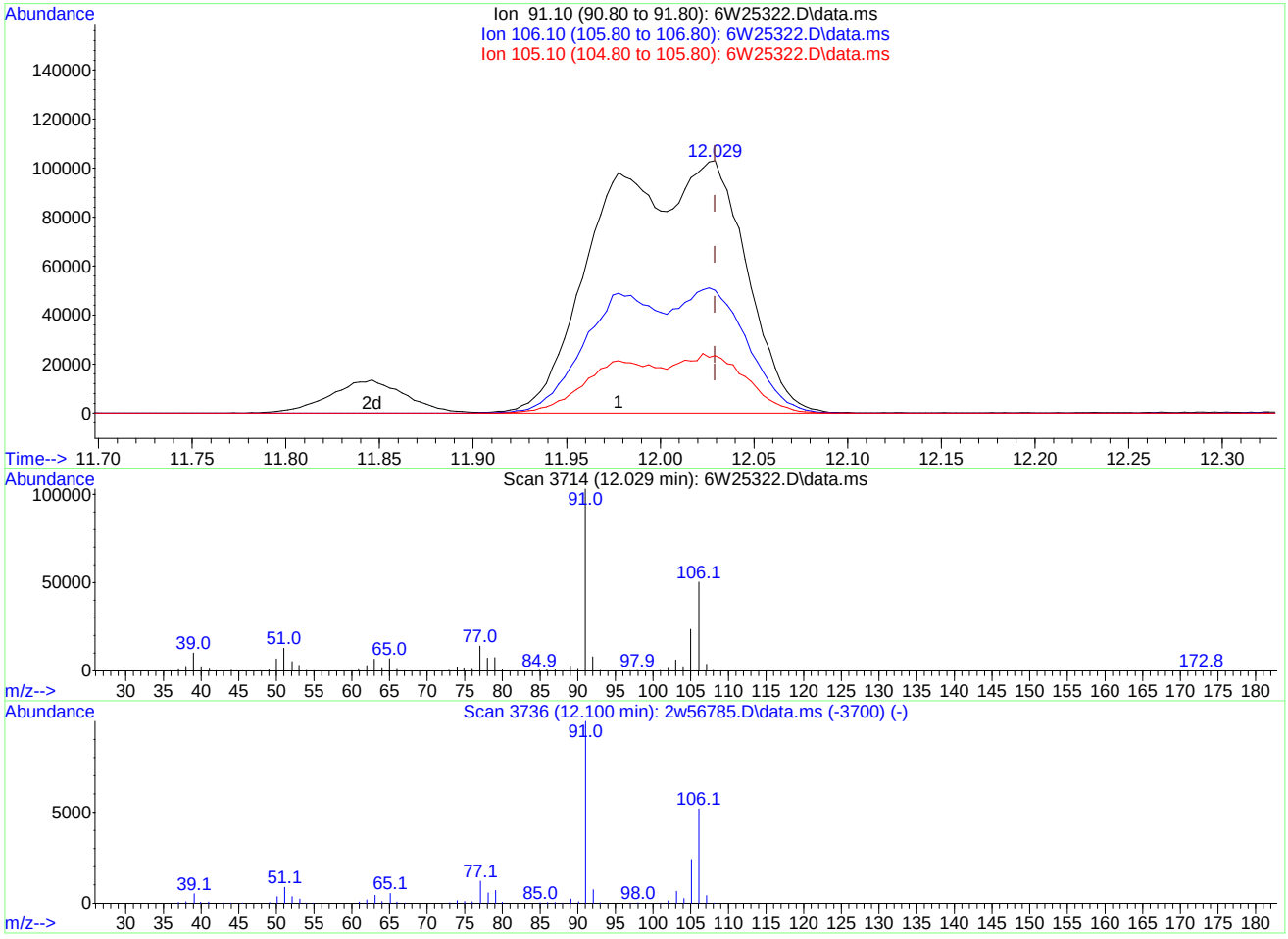
response 313719

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 44.32 |
| 105.10 | 23.60 | 19.37 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25322.D
Acq On : 4 Aug 2022 10:26 pm
Operator : thomash
Sample : icc1077-10
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:42:05 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25322.D\data.ms

(80) M,P-XYLENE (t)

12.029min (+0.000) 19.35PPBV m

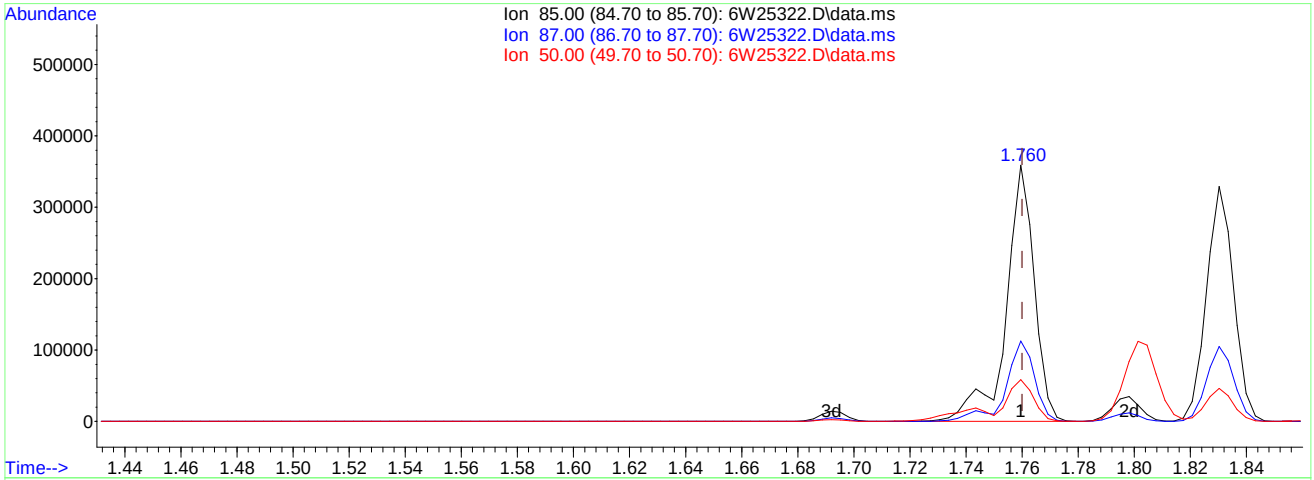
response 548383

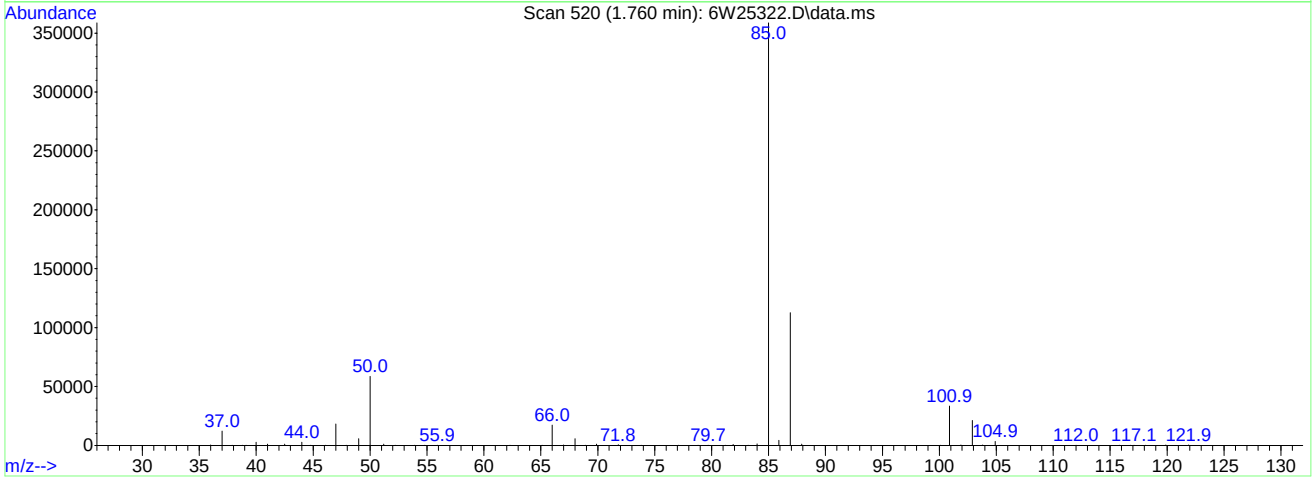
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 25.36# |
| 105.10 | 23.60 | 11.08 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25322.D
Acq On : 4 Aug 2022 10:26 pm
Operator : thomash
Sample : icc1077-10
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 09:59:07 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration




TIC: 6W25322.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.760min (-0.000) 11.21PPBV

response 251374

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.08 |
| 50.00 | 9.30 | 21.99# |
| 0.00 | 0.00 | 0.00 |

6W25323.D

Manual Integrations APPROVED (compounds with "m" flag)

Kanya Veerawat 08/08/22 10:23

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25323.D
Acq On : 4 Aug 2022 11:14 pm
Operator : thomash
Sample : ic1077-20
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:46:06 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.412 | 128 | 47197 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.792 | 114 | 247829 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.605 | 117 | 218360 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.036 | 95 | 153142 | 10.00 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.721 | 65 | 80142 | 20.58 | PPBV | # | 81 |
| 4) CHLORODIFLUOROMETHANE | 1.731 | 67 | 36589 | 21.05 | PPBV | | 96 |
| 5) CHLOROTRIFLUOROETHENE | 1.744 | 116 | 176516 | 18.90 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.760 | 85 | 424890m | 19.01 | PPBV | | |
| 7) PROPYLENE | 1.740 | 41 | 116034 | 22.19 | PPBV | | 98 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.795 | 65 | 451242 | 21.85 | PPBV | # | 85 |
| 9) FREON 114 | 1.830 | 85 | 461804 | 20.63 | PPBV | | 93 |
| 10) CHLOROMETHANE | 1.801 | 52 | 56957 | 22.99 | PPBV | | 93 |
| 11) VINYL CHLORIDE | 1.863 | 62 | 194567 | 22.13 | PPBV | | 97 |
| 12) 1,3-BUTADIENE | 1.898 | 54 | 153442 | 22.71 | PPBV | # | 70 |
| 13) N-BUTANE | 1.914 | 43 | 309712 | 24.15 | PPBV | # | 92 |
| 14) BROMOMETHANE | 1.972 | 94 | 153442 | 20.36 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.020 | 64 | 98448 | 22.06 | PPBV | | 95 |
| 16) DICHLOROFLUOROMETHANE | 2.046 | 67 | 409965 | 21.39 | PPBV | # | 95 |
| 17) ACETONITRILE | 2.110 | 41 | 186787 | 24.27 | PPBV | | 95 |
| 18) ACROLEIN | 2.149 | 56 | 75132 | 22.51 | PPBV | | 100 |
| 19) FREON 123 | 2.165 | 83 | 390500 | 20.27 | PPBV | | 98 |
| 20) FREON 123A | 2.181 | 117 | 214560 | 19.88 | PPBV | # | 73 |
| 21) TRICHLOROFLUOROMETHANE | 2.245 | 101 | 460738 | 20.05 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.261 | 45 | 426995 | 22.93 | PPBV | # | 97 |
| 23) ACETONE | 2.187 | 58 | 111318 | 22.47 | PPBV | # | 54 |
| 24) PENTANE | 2.358 | 42 | 218328 | 23.73 | PPBV | # | 93 |
| 25) IODOMETHANE | 2.419 | 142 | 416538 | 19.59 | PPBV | # | 80 |
| 26) 1,1-DICHLOROETHYLENE | 2.448 | 96 | 163521 | 19.93 | PPBV | # | 52 |
| 27) CARBON DISULFIDE | 2.592 | 76 | 521364 | 20.93 | PPBV | # | 84 |
| 28) ETHANOL | 2.049 | 45 | 95993 | 23.54 | PPBV | # | 96 |
| 29) BROMOETHENE | 2.120 | 106 | 155107 | 19.83 | PPBV | # | 97 |
| 30) ACRYLONITRILE | 2.329 | 52 | 146754 | 22.89 | PPBV | | 96 |
| 31) METHYLENE CHLORIDE | 2.486 | 84 | 152805 | 20.15 | PPBV | # | 53 |
| 32) 3-CHLOROPROPENE | 2.531 | 76 | 87215 | 20.58 | PPBV | # | 1 |
| 33) FREON 113 | 2.589 | 151 | 277793 | 19.43 | PPBV | | 87 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.846 | 96 | 179558 | 20.12 | PPBV | # | 75 |
| 35) TERTIARY BUTYL ALCOHOL | 2.461 | 59 | 458757 | 21.24 | PPBV | # | 80 |
| 36) METHYL TERTIARY BUTYL ... | 2.965 | 73 | 538778 | 20.28 | PPBV | # | 92 |
| 37) TETRAHYDROFURAN | 3.721 | 72 | 71300 | 19.86 | PPBV | # | 64 |
| 38) HEXANE | 3.467 | 57 | 253281 | 21.69 | PPBV | # | 77 |
| 39) VINYL ACETATE | 3.010 | 86 | 50767 | 21.00 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.930 | 63 | 355239 | 21.97 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.116 | 72 | 94733 | 20.48 | PPBV | # | 5 |
| 42) CIS-1,2-DICHLOROETHENE | 3.332 | 96 | 148217 | 19.32 | PPBV | # | 84 |
| 43) DIISOPROPYL ETHER | 3.473 | 59 | 79319 | 22.05 | PPBV | | 71 |
| 44) ETHYL ACETATE | 3.480 | 61 | 54879 | 21.15 | PPBV | # | 44 |
| 45) METHYL ACRYLATE | 3.467 | 55 | 329997 | 22.07 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.496 | 83 | 310401 | 20.01 | PPBV | # | 94 |
| 47) 2,4-DIMETHYLPENTANE | 4.023 | 57 | 292598 | 21.44 | PPBV | | 95 |
| 48) 1,1,1-TRICHLOROETHANE | 4.110 | 97 | 307602 | 20.08 | PPBV | | 96 |
| 49) CARBON TETRACHLORIDE | 4.563 | 117 | 319846 | 20.42 | PPBV | | 98 |
| 50) 1,2-DICHLOROETHANE | 3.936 | 62 | 218485 | 21.25 | PPBV | # | 95 |
| 51) BENZENE | 4.444 | 78 | 442215 | 19.66 | PPBV | | 86 |
| 53) CYCLOHEXANE | 4.666 | 84 | 193999 | 20.16 | PPBV | | 85 |
| 54) 2,3-DIMETHYLPENTANE | 4.940 | 71 | 101231 | 20.41 | PPBV | # | 68 |
| 55) TRICHLOROETHENE | 5.403 | 95 | 199872 | 19.88 | PPBV | | 98 |
| 56) 1,2-DICHLOROPROPANE | 5.158 | 63 | 177997 | 21.52 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.116 | 174 | 184490 | 20.28 | PPBV | | 90 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25323.D
Acq On : 4 Aug 2022 11:14 pm
Operator : thomash
Sample : ic1077-20
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:46:06 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

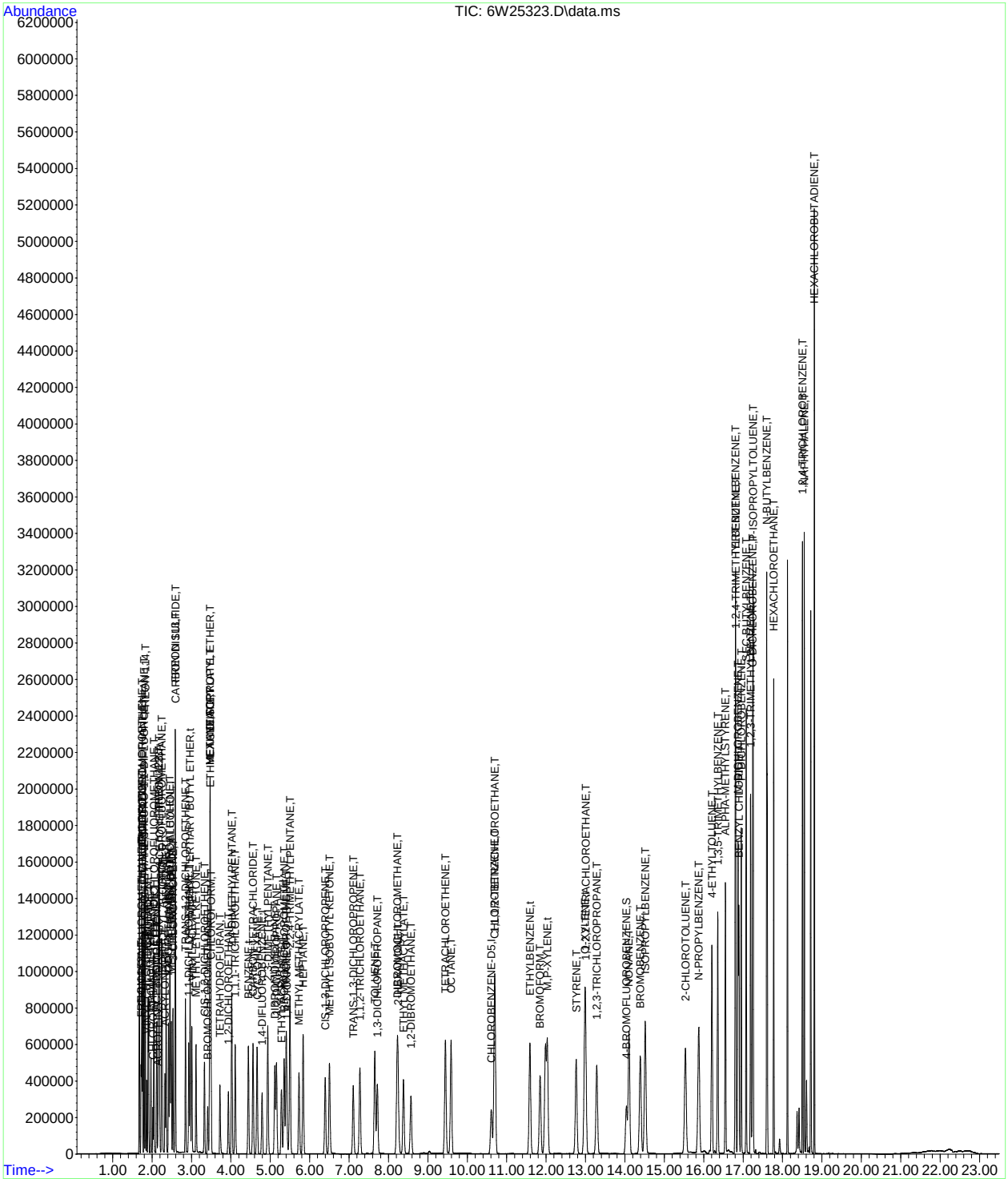
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 58) | ETHYL ACRYLATE | 5.284 | 55 | 400515 | 21.99 | PPBV | | 98 |
| 59) | BROMODICHLOROMETHANE | 5.351 | 83 | 342541 | 20.89 | PPBV | | 99 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.499 | 57 | 793063 | 21.93 | PPBV | | 97 |
| 61) | 1,4-DIOXANE | 5.419 | 88 | 105910 | 19.55 | PPBV | # | 86 |
| 62) | HEPTANE | 5.833 | 43 | 300526 | 23.07 | PPBV | # | 80 |
| 63) | METHYL METHACRYLATE | 5.727 | 69 | 177619 | 20.62 | PPBV | # | 65 |
| 64) | METHYL ISOBUTYL KETONE | 6.502 | 58 | 157307 | 21.63 | PPBV | # | 70 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.396 | 75 | 268944 | 20.65 | PPBV | # | 76 |
| 66) | TOLUENE | 7.653 | 91 | 542713 | 19.91 | PPBV | | 100 |
| 67) | 1,3-DICHLOROPROPANE | 7.718 | 76 | 280212 | 20.41 | PPBV | # | 98 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.107 | 75 | 253438 | 20.84 | PPBV | # | 78 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.274 | 83 | 164824 | 20.25 | PPBV | | 99 |
| 70) | 2-HEXANONE | 8.242 | 58 | 196570 | 21.79 | PPBV | # | 71 |
| 71) | ETHYL METHACRYLATE | 8.383 | 69 | 282008 | 20.13 | PPBV | # | 76 |
| 72) | TETRACHLOROETHENE | 9.444 | 164 | 202319 | 19.98 | PPBV | | 95 |
| 73) | DIBROMOCHLOROMETHANE | 8.219 | 129 | 343034 | 20.85 | PPBV | | 99 |
| 74) | 1,2-DIBROMOETHANE | 8.570 | 107 | 302112 | 20.21 | PPBV | | 100 |
| 75) | OCTANE | 9.586 | 43 | 418277 | 23.13 | PPBV | # | 80 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.701 | 131 | 236743 | 20.24 | PPBV | | 94 |
| 78) | CHLOROBENZENE | 10.689 | 112 | 446149 | 20.04 | PPBV | | 98 |
| 79) | ETHYLBENZENE | 11.589 | 91 | 737010 | 20.22 | PPBV | | 99 |
| 80) | M,P-XYLENE | 12.029 | 91 | 1137198 | 40.45 | PPBV | # | 63 |
| 81) | O-XYLENE | 12.981 | 91 | 575238 | 20.27 | PPBV | | 98 |
| 82) | STYRENE | 12.766 | 104 | 440587 | 20.16 | PPBV | | 96 |
| 83) | NONANE | 14.100 | 43 | 446282 | 23.19 | PPBV | # | 78 |
| 84) | BROMOFORM | 11.846 | 173 | 326605 | 21.61 | PPBV | | 98 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 13.004 | 83 | 450382 | 20.61 | PPBV | | 100 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.290 | 75 | 336113 | 20.60 | PPBV | # | 100 |
| 88) | ISOPROPYLBENZENE | 14.515 | 120 | 224152 | 20.06 | PPBV | | 87 |
| 89) | BROMOBENZENE | 14.389 | 77 | 421482 | 20.52 | PPBV | | 94 |
| 90) | 2-CHLOROTOLUENE | 15.537 | 126 | 204927 | 19.97 | PPBV | | 98 |
| 91) | N-PROPYLBENZENE | 15.872 | 120 | 228812 | 19.92 | PPBV | | 99 |
| 92) | 4-ETHYLTOLUENE | 16.209 | 105 | 848728 | 20.29 | PPBV | | 100 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.357 | 105 | 705951 | 20.47 | PPBV | | 98 |
| 94) | ALPHA-METHYLSTYRENE | 16.550 | 118 | 357819 | 20.48 | PPBV | | 98 |
| 95) | TERT-BUTYLBENZENE | 16.804 | 134 | 173048 | 20.41 | PPBV | | 97 |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.814 | 105 | 748477 | 20.91 | PPBV | | 93 |
| 97) | BENZYL CHLORIDE | 16.894 | 91 | 660483 | 21.10 | PPBV | | 97 |
| 98) | M-DICHLOROBENZENE | 16.872 | 146 | 488346 | 20.20 | PPBV | | 98 |
| 99) | P-DICHLOROBENZENE | 16.952 | 146 | 501325 | 20.26 | PPBV | | 99 |
| 100) | O-DICHLOROBENZENE | 17.241 | 146 | 479793 | 20.55 | PPBV | | 98 |
| 101) | SEC-BUTYLBENZENE | 17.077 | 134 | 216837 | 20.31 | PPBV | | 99 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.190 | 105 | 725851 | 20.97 | PPBV | # | 98 |
| 103) | P-ISOPROPYLTOLUENE | 17.254 | 134 | 255319 | 21.41 | PPBV | | 95 |
| 104) | N-BUTYLBENZENE | 17.598 | 134 | 240696 | 21.16 | PPBV | | 93 |
| 105) | HEXACHLOROETHANE | 17.778 | 117 | 310425 | 22.12 | PPBV | | 92 |
| 106) | HEXACHLOROBUTADIENE | 18.807 | 225 | 446278 | 25.69 | PPBV | | 99 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.505 | 180 | 517715 | 22.24 | PPBV | | 98 |
| 108) | NAPHTHALENE | 18.553 | 128 | 1297725 | 21.21 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25323.D
Acq On : 4 Aug 2022 11:14 pm
Operator : thomash
Sample : ic1077-20
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:46:06 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



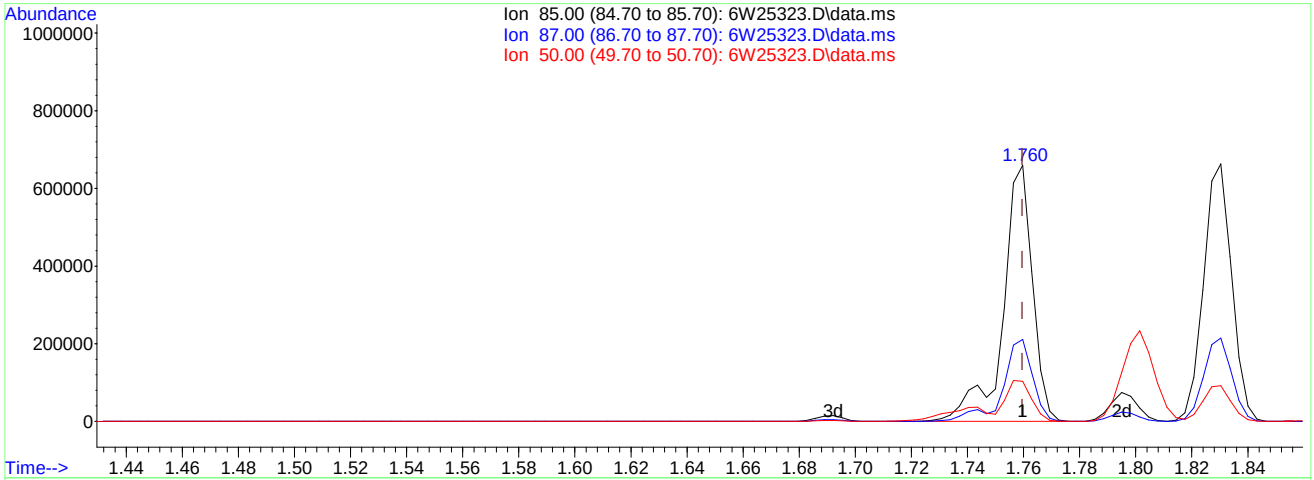
| | | | |
|---|---|---|---|
| **Sample Number:** | V6W1077-IC1077 | **Method:** | TO-15 |
| **Lab FileID:** | 6W25323.D | **Analyst approved:** | 08/05/22 10:02 Thomas Hilbig |
| **Injection Time:** | 08/04/22 23:14 | **Supervisor approved:** | 08/08/22 10:23 Kanya Veerawat |

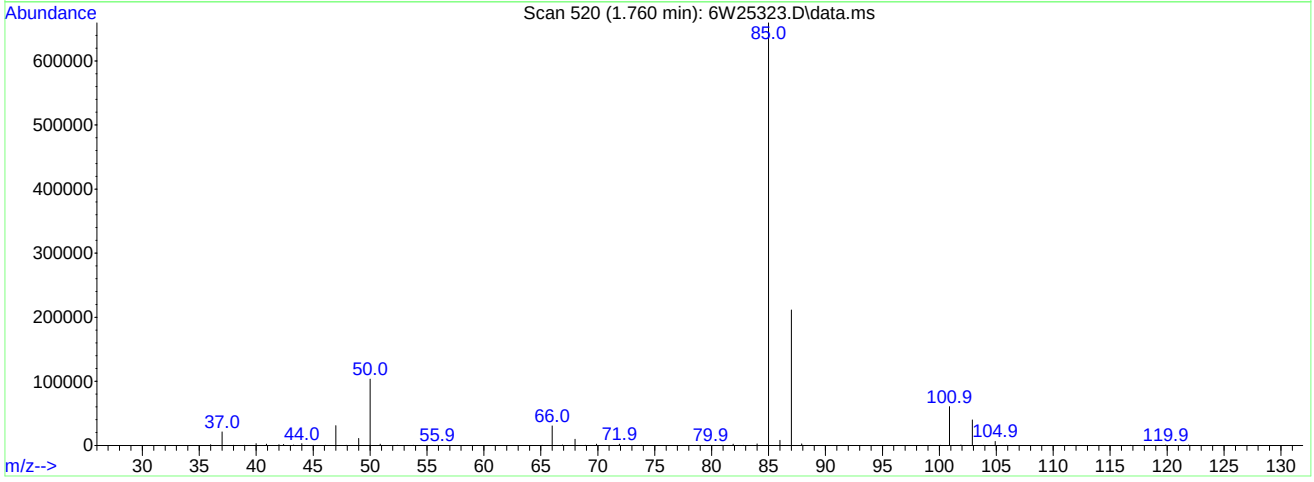
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.76 | Overlapping peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25323.D
Acq On : 4 Aug 2022 11:14 pm
Operator : thomash
Sample : ic1077-20
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:45:32 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25323.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.760min (+0.000) 21.64PPBV

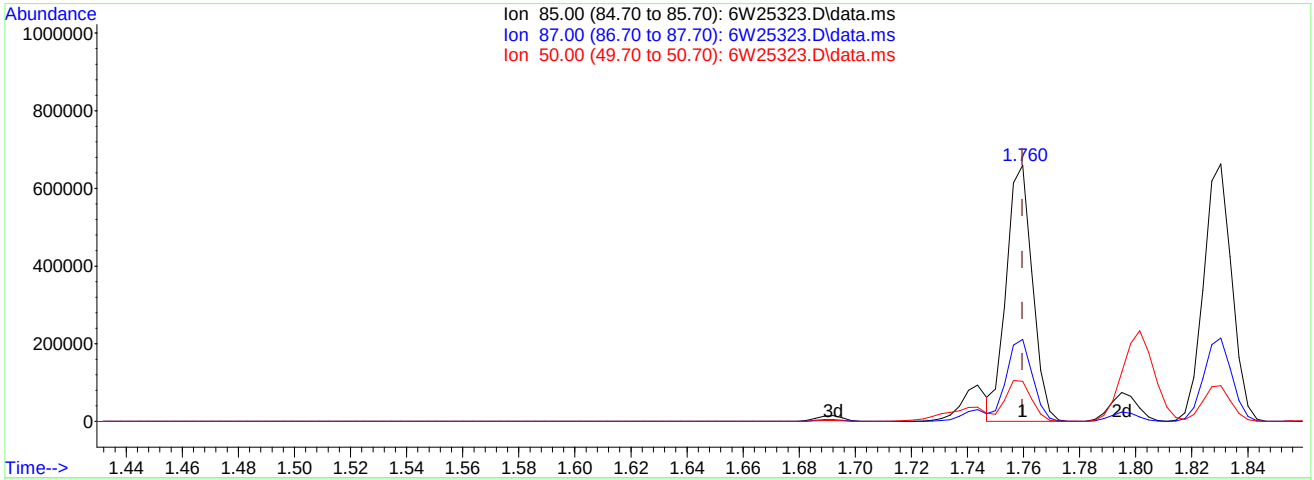
response 483552

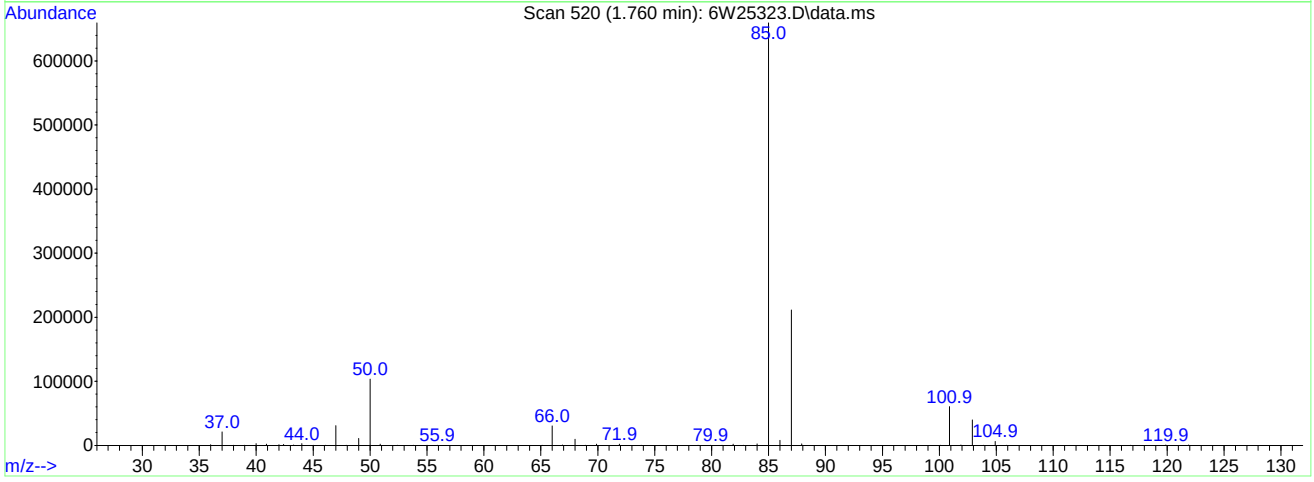
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.23 |
| 50.00 | 9.30 | 22.06# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25323.D
Acq On : 4 Aug 2022 11:14 pm
Operator : thomash
Sample : ic1077-20
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:45:32 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25323.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.760min (+0.000) 19.01PPBV m

response 424890

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 36.69 |
| 50.00 | 9.30 | 25.11# |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/22 10:23

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25324.D
Acq On : 5 Aug 2022 12:05 am
Operator : thomash
Sample : ic1077-40
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:48:25 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.415 | 128 | 51457 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.791 | 114 | 252022 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.611 | 117 | 222394 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.035 | 95 | 159073 | 10.20 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.721 | 65 | 167314m | 39.41 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.734 | 67 | 75640 | 39.92 | PPBV | | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.743 | 116 | 376941 | 37.02 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.759 | 85 | 790122m | 32.43 | PPBV | | |
| 7) PROPYLENE | 1.743 | 41 | 246106 | 43.17 | PPBV | | 97 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.798 | 65 | 941405 | 41.80 | PPBV | # | 86 |
| 9) FREON 114 | 1.830 | 85 | 980558 | 40.17 | PPBV | | 93 |
| 10) CHLOROMETHANE | 1.801 | 52 | 117596 | 43.53 | PPBV | | 91 |
| 11) VINYL CHLORIDE | 1.862 | 62 | 402312 | 41.97 | PPBV | | 97 |
| 12) 1,3-BUTADIENE | 1.901 | 54 | 320102 | 43.46 | PPBV | # | 70 |
| 13) N-BUTANE | 1.914 | 43 | 643305 | 46.01 | PPBV | # | 92 |
| 14) BROMOMETHANE | 1.975 | 94 | 318811 | 38.80 | PPBV | | 100 |
| 15) CHLOROETHANE | 2.020 | 64 | 206500 | 42.44 | PPBV | | 97 |
| 16) DICHLOROFLUOROMETHANE | 2.046 | 67 | 867466 | 41.51 | PPBV | # | 94 |
| 17) ACETONITRILE | 2.113 | 41 | 389793 | 46.46 | PPBV | | 97 |
| 18) ACROLEIN | 2.152 | 56 | 154949 | 42.58 | PPBV | | 98 |
| 19) FREON 123 | 2.168 | 83 | 825981 | 39.33 | PPBV | | 99 |
| 20) FREON 123A | 2.184 | 117 | 458263 | 38.95 | PPBV | # | 74 |
| 21) TRICHLOROFLUOROMETHANE | 2.245 | 101 | 980200 | 39.13 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.261 | 45 | 874592 | 43.08 | PPBV | # | 98 |
| 23) ACETONE | 2.190 | 58 | 234733 | 43.45 | PPBV | # | 55 |
| 24) PENTANE | 2.357 | 42 | 451730 | 45.04 | PPBV | # | 92 |
| 25) IODOMETHANE | 2.422 | 142 | 885173 | 38.19 | PPBV | # | 80 |
| 26) 1,1-DICHLOROETHYLENE | 2.447 | 96 | 344299 | 38.49 | PPBV | # | 50 |
| 27) CARBON DISULFIDE | 2.592 | 76 | 1116880 | 41.12 | PPBV | # | 85 |
| 28) ETHANOL | 2.049 | 45 | 197012 | 44.31 | PPBV | | 97 |
| 29) BROMOETHENE | 2.120 | 106 | 323066 | 37.89 | PPBV | # | 97 |
| 30) ACRYLONITRILE | 2.332 | 52 | 303106 | 43.37 | PPBV | | 96 |
| 31) METHYLENE CHLORIDE | 2.489 | 84 | 320065 | 38.70 | PPBV | # | 55 |
| 32) 3-CHLOROPROPENE | 2.531 | 76 | 184463 | 39.92 | PPBV | # | 1 |
| 33) FREON 113 | 2.592 | 151 | 595278 | 38.18 | PPBV | | 86 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.849 | 96 | 380433 | 39.10 | PPBV | # | 76 |
| 35) TERTIARY BUTYL ALCOHOL | 2.460 | 59 | 956482 | 40.62 | PPBV | # | 79 |
| 36) METHYL TERTIARY BUTYL ... | 2.968 | 73 | 1138098 | 39.28 | PPBV | # | 91 |
| 37) TETRAHYDROFURAN | 3.721 | 72 | 150264 | 38.38 | PPBV | # | 64 |
| 38) HEXANE | 3.467 | 57 | 544217 | 42.75 | PPBV | # | 77 |
| 39) VINYL ACETATE | 3.010 | 86 | 108110 | 41.02 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.933 | 63 | 744076 | 42.21 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.116 | 72 | 199462 | 39.54 | PPBV | # | 8 |
| 42) CIS-1,2-DICHLOROETHENE | 3.332 | 96 | 393345 | 47.02 | PPBV | # | 74 |
| 43) DIISOPROPYL ETHER | 3.476 | 59 | 168118 | 42.86 | PPBV | | 67 |
| 44) ETHYL ACETATE | 3.483 | 61 | 117652 | 41.58 | PPBV | # | 42 |
| 45) METHYL ACRYLATE | 3.467 | 55 | 713783 | 43.79 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.499 | 83 | 660724 | 39.07 | PPBV | # | 95 |
| 47) 2,4-DIMETHYLPENTANE | 4.023 | 57 | 621347 | 41.76 | PPBV | | 95 |
| 48) 1,1,1-TRICHLOROETHANE | 4.113 | 97 | 655640 | 39.26 | PPBV | | 96 |
| 49) CARBON TETRACHLORIDE | 4.566 | 117 | 679873 | 39.81 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.939 | 62 | 462042 | 41.21 | PPBV | # | 95 |
| 51) BENZENE | 4.447 | 78 | 940544 | 38.35 | PPBV | | 86 |
| 53) CYCLOHEXANE | 4.666 | 84 | 411471 | 42.04 | PPBV | | 85 |
| 54) 2,3-DIMETHYLPENTANE | 4.939 | 71 | 214295 | 42.48 | PPBV | # | 68 |
| 55) TRICHLOROETHENE | 5.409 | 95 | 427263 | 41.80 | PPBV | | 98 |
| 56) 1,2-DICHLOROPROPANE | 5.161 | 63 | 375778 | 44.67 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.119 | 174 | 393567 | 42.55 | PPBV | | 90 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25324.D
Acq On : 5 Aug 2022 12:05 am
Operator : thomash
Sample : ic1077-40
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:48:25 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

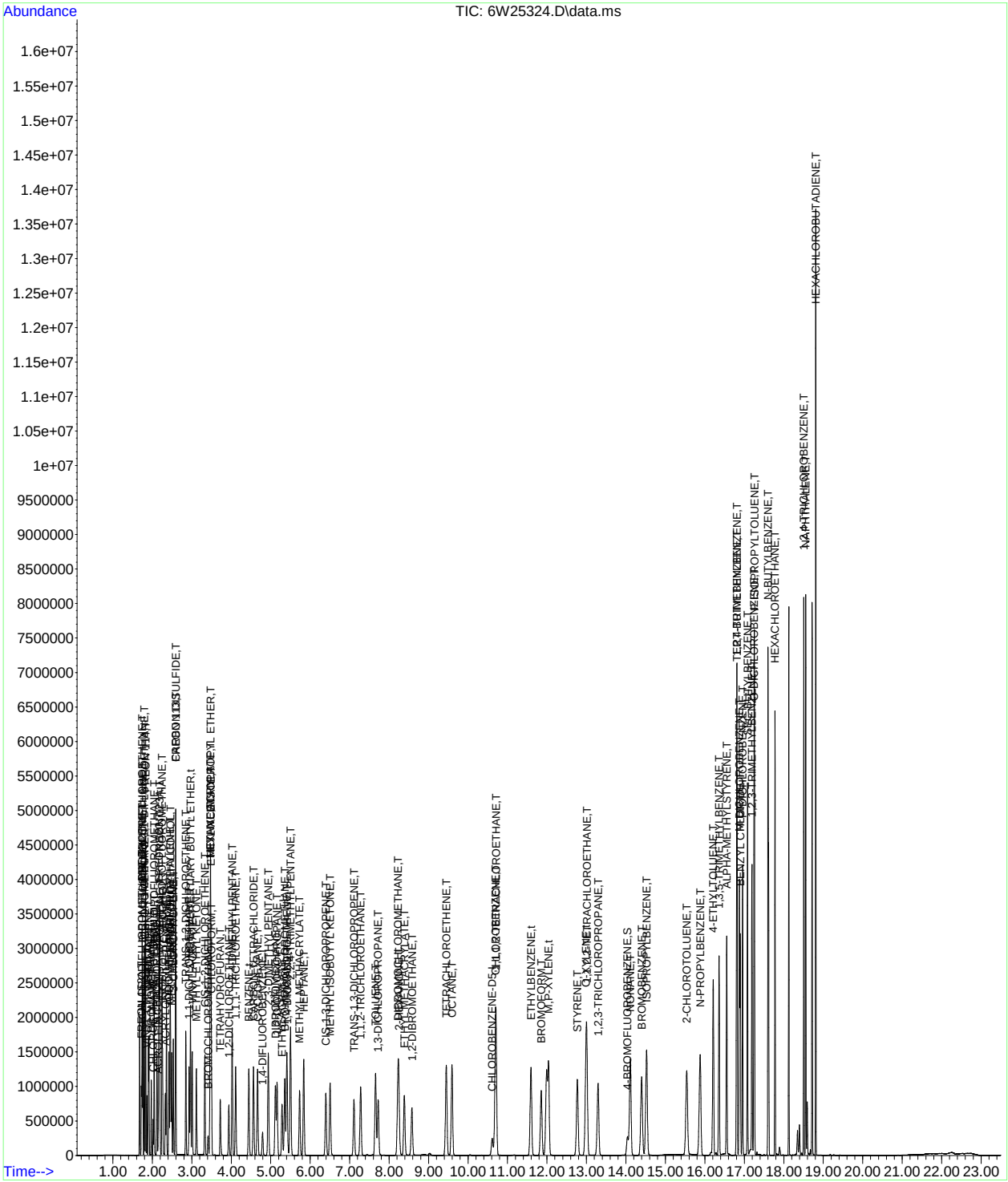
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 58) | ETHYL ACRYLATE | 5.287 | 55 | 852425 | 46.03 | PPBV | | 98 |
| 59) | BROMODICHLOROMETHANE | 5.357 | 83 | 730804 | 43.83 | PPBV | | 99 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.502 | 57 | 1684543 | 45.81 | PPBV | | 98 |
| 61) | 1,4-DIOXANE | 5.418 | 88 | 224773 | 40.81 | PPBV | # | 83 |
| 62) | HEPTANE | 5.836 | 43 | 632032 | 47.71 | PPBV | # | 81 |
| 63) | METHYL METHACRYLATE | 5.730 | 69 | 375452 | 42.86 | PPBV | # | 65 |
| 64) | METHYL ISOBUTYL KETONE | 6.505 | 58 | 331921 | 44.87 | PPBV | # | 71 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.396 | 75 | 578594 | 43.69 | PPBV | # | 76 |
| 66) | TOLUENE | 7.656 | 91 | 1155848 | 41.70 | PPBV | | 100 |
| 67) | 1,3-DICHLOROPROPANE | 7.721 | 76 | 595322 | 42.63 | PPBV | # | 98 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.110 | 75 | 548481 | 44.35 | PPBV | # | 79 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.277 | 83 | 351605 | 42.49 | PPBV | | 99 |
| 70) | 2-HEXANONE | 8.248 | 58 | 415747 | 45.32 | PPBV | # | 71 |
| 71) | ETHYL METHACRYLATE | 8.386 | 69 | 605237 | 42.48 | PPBV | # | 76 |
| 72) | TETRACHLOROETHENE | 9.447 | 164 | 433967 | 42.15 | PPBV | | 96 |
| 73) | DIBROMOCHLOROMETHANE | 8.222 | 129 | 740322 | 44.24 | PPBV | | 99 |
| 74) | 1,2-DIBROMOETHANE | 8.579 | 107 | 641800 | 42.23 | PPBV | | 100 |
| 75) | OCTANE | 9.592 | 43 | 888077 | 48.28 | PPBV | # | 80 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.711 | 131 | 510561 | 42.86 | PPBV | | 94 |
| 78) | CHLOROBENZENE | 10.695 | 112 | 954238 | 42.08 | PPBV | | 98 |
| 79) | ETHYLBENZENE | 11.595 | 91 | 1569621 | 42.28 | PPBV | | 99 |
| 80) | M,P-XYLENE | 12.036 | 91 | 2430231m | 84.87 | PPBV | | |
| 81) | O-XYLENE | 12.990 | 91 | 1230020 | 42.55 | PPBV | | 97 |
| 82) | STYRENE | 12.769 | 104 | 943477 | 42.40 | PPBV | | 96 |
| 83) | NONANE | 14.109 | 43 | 948852 | 48.41 | PPBV | # | 77 |
| 84) | BROMOFORM | 11.852 | 173 | 712871 | 46.31 | PPBV | | 99 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 13.010 | 83 | 966564 | 43.42 | PPBV | | 100 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.296 | 75 | 718280 | 43.22 | PPBV | # | 100 |
| 88) | ISOPROPYLBENZENE | 14.524 | 120 | 483235 | 42.47 | PPBV | | 88 |
| 89) | BROMOBENZENE | 14.399 | 77 | 893556 | 42.71 | PPBV | | 95 |
| 90) | 2-CHLOROTOLUENE | 15.540 | 126 | 437565 | 41.87 | PPBV | | 99 |
| 91) | N-PROPYLBENZENE | 15.884 | 120 | 491467 | 42.01 | PPBV | | 99 |
| 92) | 4-ETHYLTOLUENE | 16.212 | 105 | 1848091 | 43.38 | PPBV | | 100 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.360 | 105 | 1553812 | 44.24 | PPBV | | 98 |
| 94) | ALPHA-METHYLSTYRENE | 16.556 | 118 | 784003 | 44.07 | PPBV | | 98 |
| 95) | TERT-BUTYLBENZENE | 16.807 | 134 | 387015 | 44.82 | PPBV | | 97 |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.817 | 105 | 1699626 | 46.62 | PPBV | | 92 |
| 97) | BENZYL CHLORIDE | 16.897 | 91 | 1535145 | 48.15 | PPBV | # | 97 |
| 98) | M-DICHLOROBENZENE | 16.875 | 146 | 1077373 | 43.76 | PPBV | | 98 |
| 99) | P-DICHLOROBENZENE | 16.955 | 146 | 1099820 | 43.64 | PPBV | | 98 |
| 100) | O-DICHLOROBENZENE | 17.244 | 146 | 1088901 | 45.79 | PPBV | | 98 |
| 101) | SEC-BUTYLBENZENE | 17.080 | 134 | 484541 | 44.55 | PPBV | | 97 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.193 | 105 | 1635987 | 46.40 | PPBV | # | 97 |
| 103) | P-ISOPROPYLTOLUENE | 17.257 | 134 | 561384 | 46.22 | PPBV | | 97 |
| 104) | N-BUTYLBENZENE | 17.601 | 134 | 541860 | 46.78 | PPBV | | 91 |
| 105) | HEXACHLOROETHANE | 17.778 | 117 | 736445 | 51.53 | PPBV | | 92 |
| 106) | HEXACHLOROBUTADIENE | 18.810 | 225 | 1112623 | 62.89 | PPBV | | 99 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.508 | 180 | 1241709 | 52.38 | PPBV | | 98 |
| 108) | NAPHTHALENE | 18.556 | 128 | 3055760 | 49.04 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25324.D
Acq On : 5 Aug 2022 12:05 am
Operator : thomash
Sample : ic1077-40
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:48:25 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V6W1077-IC1077
**Lab FileID:** 6W25324.D
**Injection Time:** 08/05/22 00:05

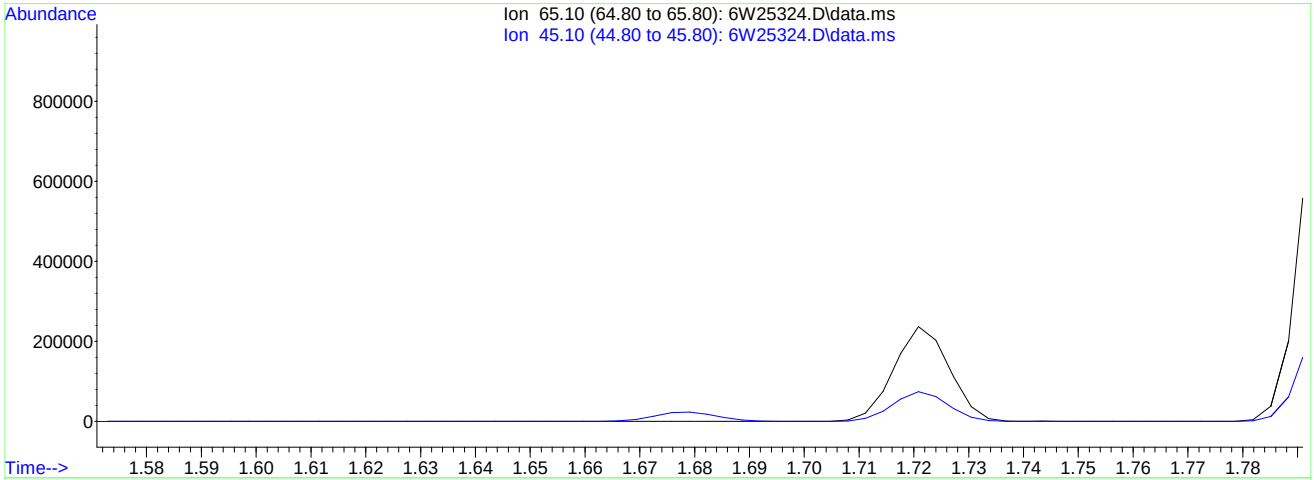
**Method:** TO-15
**Analyst approved:** 08/05/22 10:02 Thomas Hilbig
**Supervisor approved:** 08/08/22 10:23 Kanya Veerawat

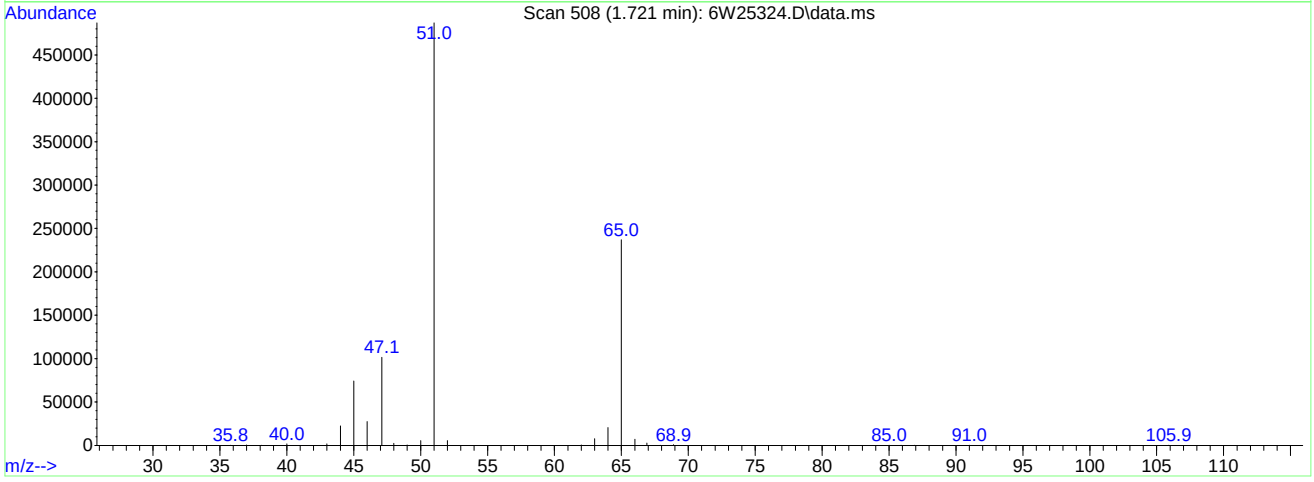
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.72 | Missed peak |
| Dichlorodifluoromethane | 75-71-8 | | 1.76 | Overlapping peak |
| m,p-Xylene | | | 12.04 | Split peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25324.D
Acq On : 5 Aug 2022 12:05 am
Operator : thomash
Sample : ic1077-40
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:47:15 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25324.D\data.ms

(3) FREON 152A (T)

1.721min (-1.721) 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 0.00 |
| 45.10 | 22.90 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |





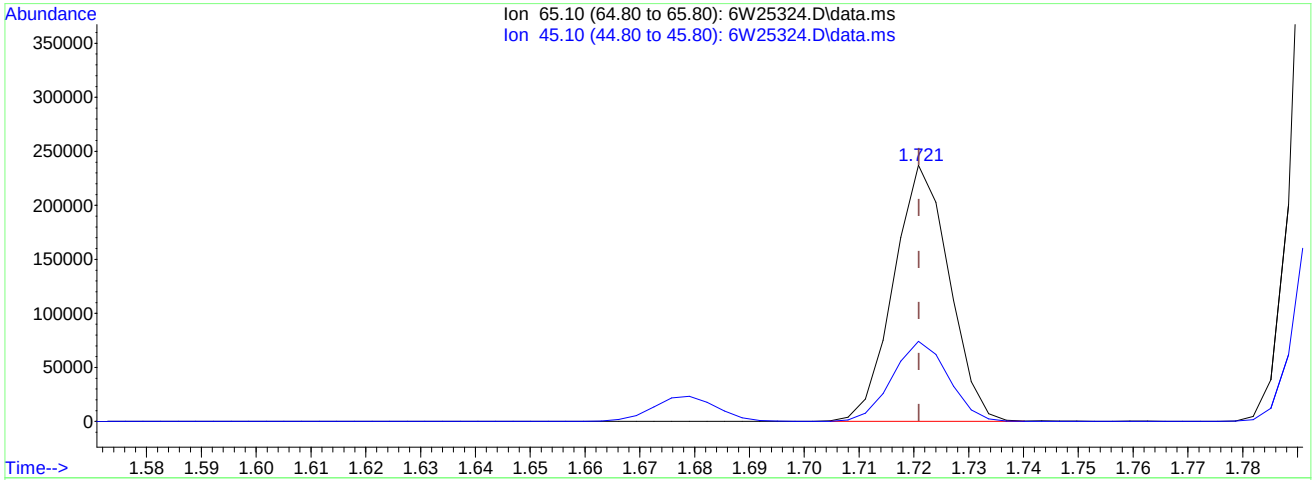


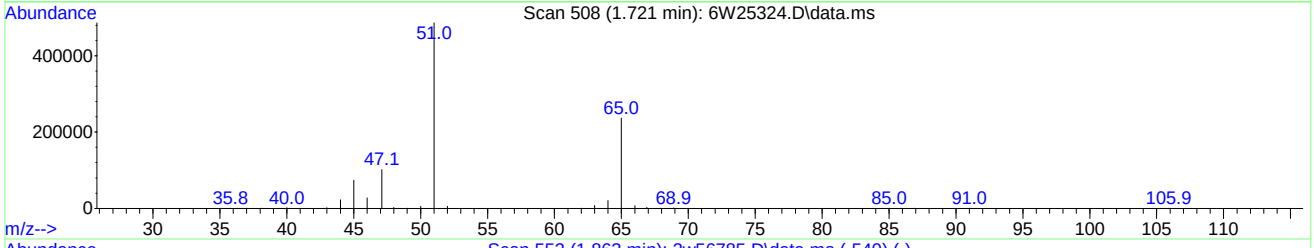
6W25324.D edits: FREON 152A

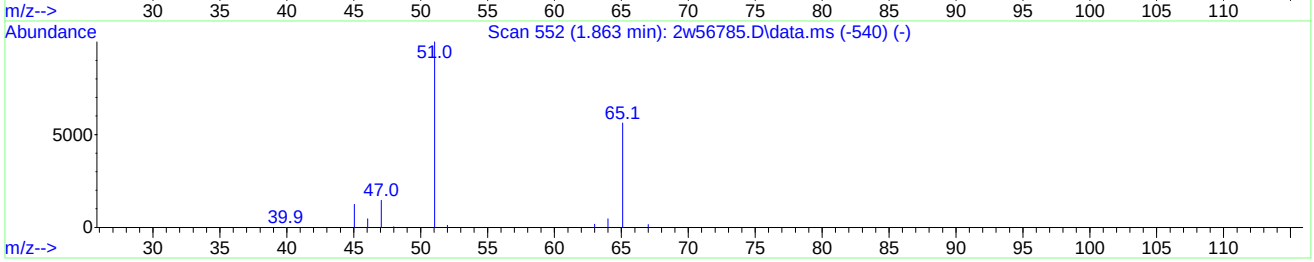
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25324.D
Acq On : 5 Aug 2022 12:05 am
Operator : thomash
Sample : ic1077-40
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:47:15 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25324.D\data.ms

(3) FREON 152A (T)

1.721min (-0.000) 39.41PPBV m

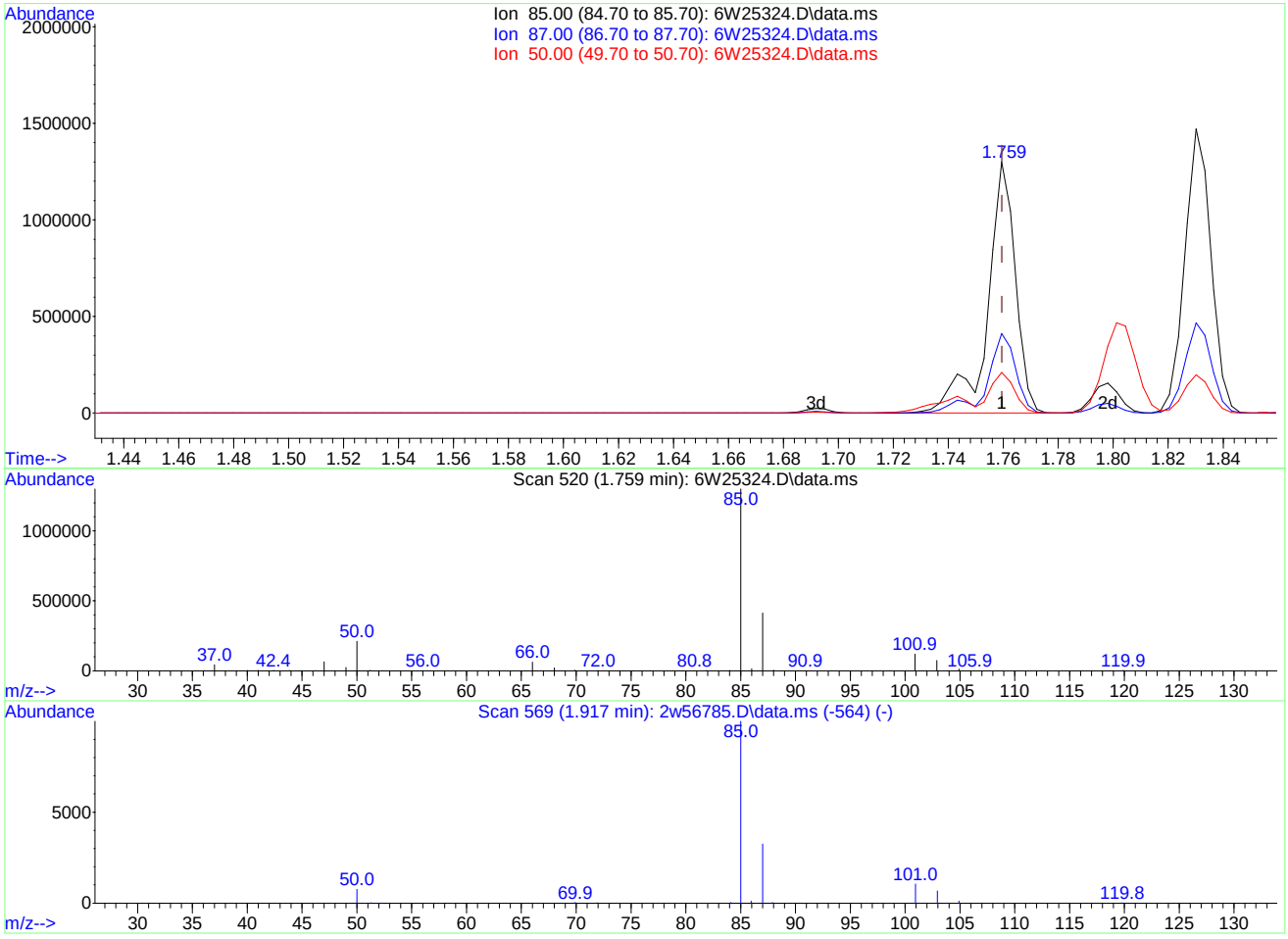
response 167314

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 22.90 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25324.D
Acq On : 5 Aug 2022 12:05 am
Operator : thomash
Sample : ic1077-40
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:47:15 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25324.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.759min (-0.000) 37.96PPBV

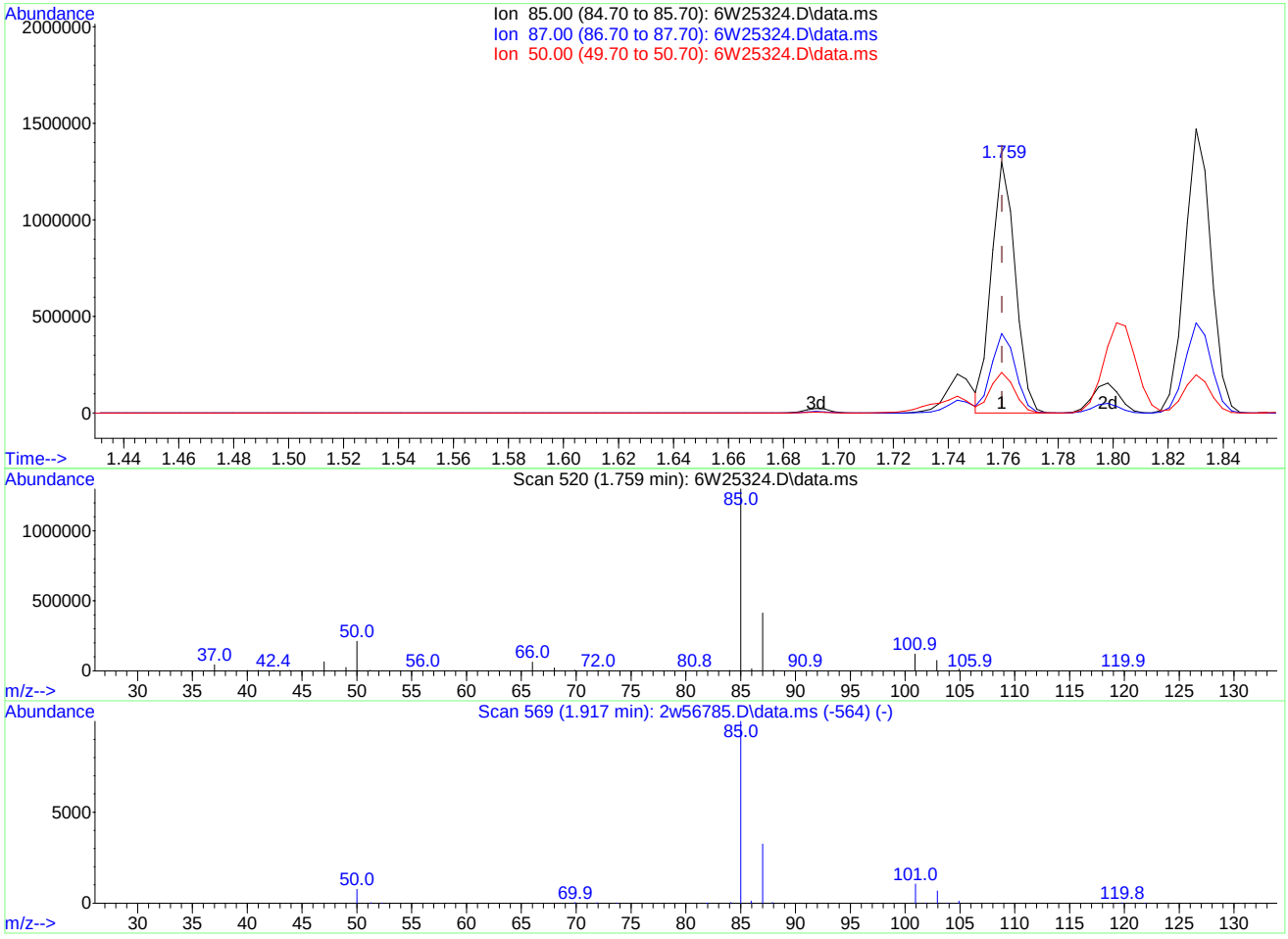
response 924885

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.15 |
| 50.00 | 9.30 | 22.67# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25324.D
Acq On : 5 Aug 2022 12:05 am
Operator : thomash
Sample : ic1077-40
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:47:15 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25324.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.759min (-0.000) 32.43PPBV m

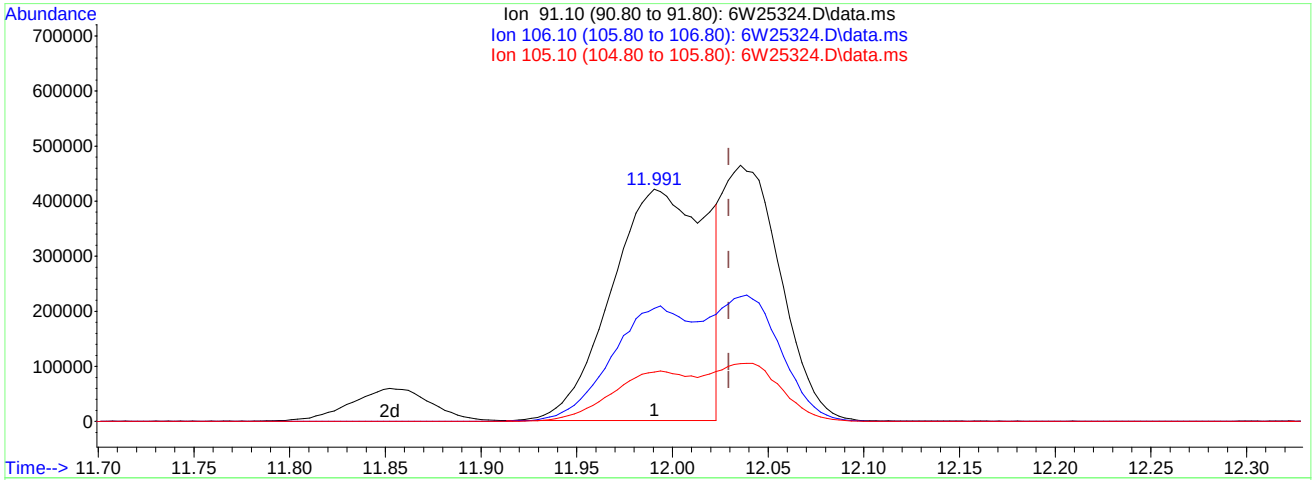
response 790122

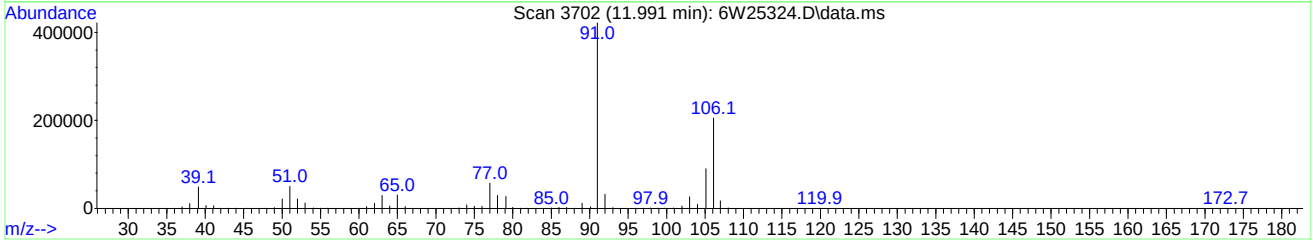
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 37.64 |
| 50.00 | 9.30 | 26.53# |
| 0.00 | 0.00 | 0.00 |

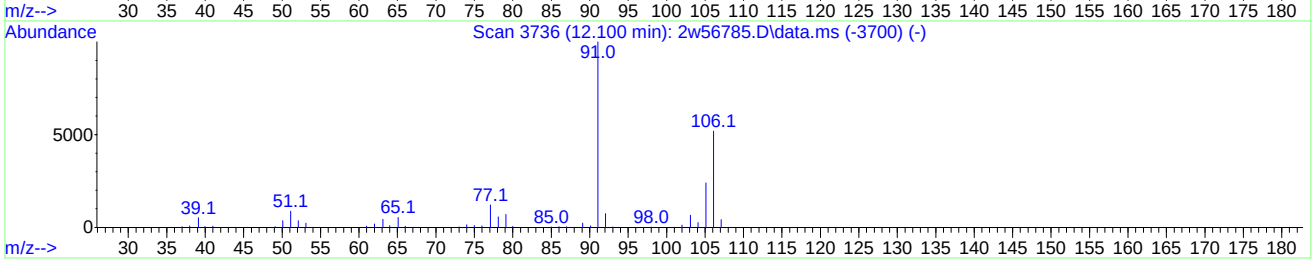
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25324.D
Acq On : 5 Aug 2022 12:05 am
Operator : thomash
Sample : ic1077-40
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:47:15 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25324.D\data.ms

(80) M,P-XYLENE (t)

11.991min (-0.039) 50.48PPBV

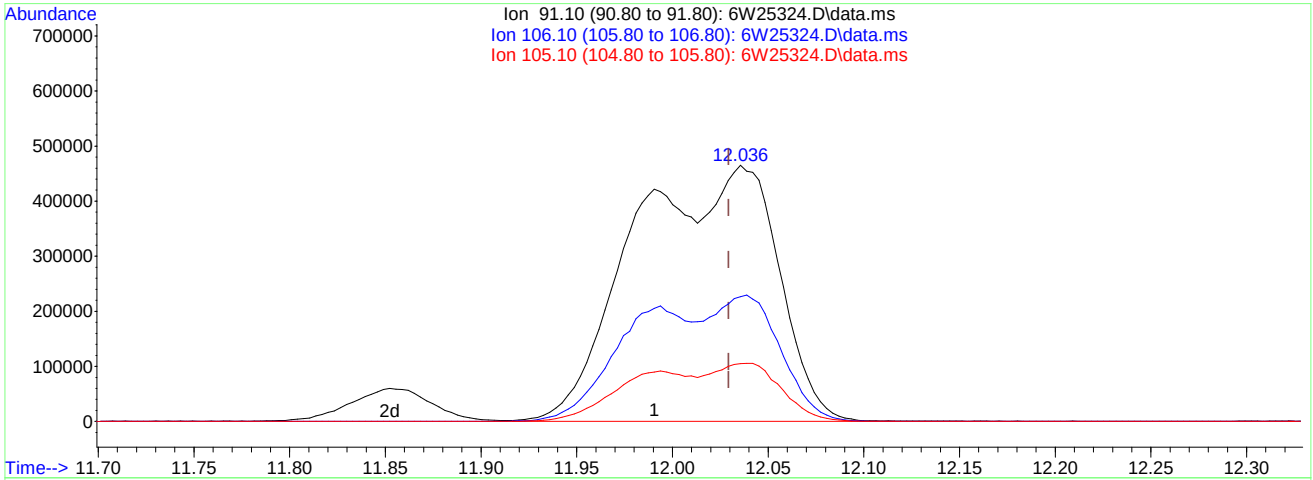
response 1445449

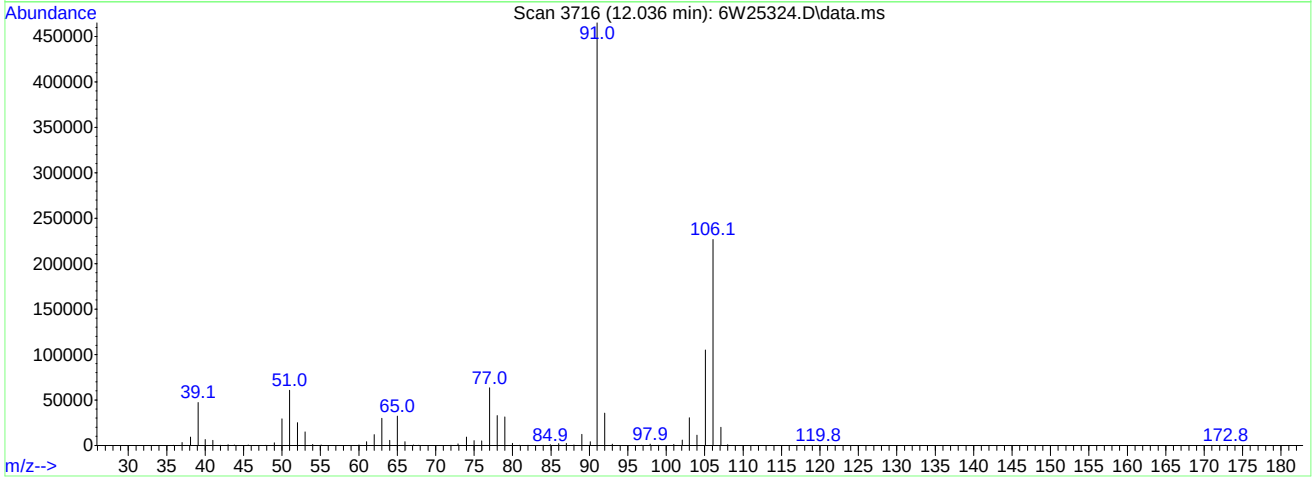
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 39.44 |
| 105.10 | 23.60 | 17.43 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25324.D
Acq On : 5 Aug 2022 12:05 am
Operator : thomash
Sample : ic1077-40
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:48:25 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25324.D\data.ms

(80) M,P-XYLENE (t)

12.036min (+0.006) 84.87PPBV m

response 2430231

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 23.46# |
| 105.10 | 23.60 | 10.37 |
| 0.00 | 0.00 | 0.00 |







6W25324.D edits: M,P-XYLENE

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/22 10:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25325.D
Acq On : 5 Aug 2022 12:59 am
Operator : thomash
Sample : ic1077-50
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:51:36 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.412 | 128 | 58685 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.792 | 114 | 246613 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.611 | 117 | 217461 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.039 | 95 | 156658 | 10.27 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.721 | 65 | 213475 | 44.09 | PPBV | # | 82 |
| 4) CHLORODIFLUOROMETHANE | 1.731 | 67 | 96417 | 44.62 | PPBV | | 97 |
| 5) CHLOROTRIFLUOROETHENE | 1.743 | 116 | 483505 | 41.64 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.759 | 85 | 983363m | 35.39 | PPBV | | |
| 7) PROPYLENE | 1.740 | 41 | 311891 | 47.97 | PPBV | | 97 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.795 | 65 | 1193064 | 46.45 | PPBV | # | 86 |
| 9) FREON 114 | 1.830 | 85 | 1245801 | 44.75 | PPBV | | 93 |
| 10) CHLOROMETHANE | 1.801 | 52 | 149159 | 48.41 | PPBV | | 94 |
| 11) VINYL CHLORIDE | 1.859 | 62 | 507187 | 46.39 | PPBV | | 97 |
| 12) 1,3-BUTADIENE | 1.898 | 54 | 403159 | 47.99 | PPBV | # | 71 |
| 13) N-BUTANE | 1.914 | 43 | 804324 | 50.44 | PPBV | # | 93 |
| 14) BROMOMETHANE | 1.972 | 94 | 402363 | 42.94 | PPBV | | 100 |
| 15) CHLOROETHANE | 2.020 | 64 | 256713 | 46.26 | PPBV | | 94 |
| 16) DICHLOROFLUOROMETHANE | 2.046 | 67 | 1096156 | 45.99 | PPBV | # | 95 |
| 17) ACETONITRILE | 2.110 | 41 | 489221 | 51.13 | PPBV | | 97 |
| 18) ACROLEIN | 2.149 | 56 | 196622 | 47.37 | PPBV | | 99 |
| 19) FREON 123 | 2.165 | 83 | 1048575 | 43.78 | PPBV | | 98 |
| 20) FREON 123A | 2.181 | 117 | 578238 | 43.09 | PPBV | # | 73 |
| 21) TRICHLOROFLUOROMETHANE | 2.242 | 101 | 1246110 | 43.62 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.258 | 45 | 1123113 | 48.51 | PPBV | # | 97 |
| 23) ACETONE | 2.187 | 58 | 294371 | 47.78 | PPBV | # | 54 |
| 24) PENTANE | 2.358 | 42 | 567871 | 49.64 | PPBV | # | 92 |
| 25) IODOMETHANE | 2.419 | 142 | 1124681 | 42.55 | PPBV | # | 80 |
| 26) 1,1-DICHLOROETHYLENE | 2.448 | 96 | 435854 | 42.73 | PPBV | # | 50 |
| 27) CARBON DISULFIDE | 2.589 | 76 | 1417074 | 45.74 | PPBV | # | 85 |
| 28) ETHANOL | 2.049 | 45 | 250721 | 49.44 | PPBV | | 98 |
| 29) BROMOETHENE | 2.120 | 106 | 411976 | 42.37 | PPBV | # | 97 |
| 30) ACRYLONITRILE | 2.329 | 52 | 381496 | 47.86 | PPBV | | 97 |
| 31) METHYLENE CHLORIDE | 2.486 | 84 | 400283 | 42.44 | PPBV | # | 54 |
| 32) 3-CHLOROPROPENE | 2.531 | 76 | 231070 | 43.85 | PPBV | # | 1 |
| 33) FREON 113 | 2.589 | 151 | 759082 | 42.69 | PPBV | | 87 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.846 | 96 | 480941 | 43.34 | PPBV | # | 76 |
| 35) TERTIARY BUTYL ALCOHOL | 2.457 | 59 | 1227994 | 45.73 | PPBV | # | 79 |
| 36) METHYL TERTIARY BUTYL ... | 2.965 | 73 | 1456314 | 44.08 | PPBV | # | 92 |
| 37) TETRAHYDROFURAN | 3.721 | 72 | 189189 | 42.37 | PPBV | # | 63 |
| 38) HEXANE | 3.467 | 57 | 753556 | 51.90 | PPBV | # | 76 |
| 39) VINYL ACETATE | 3.010 | 86 | 138383 | 46.04 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.933 | 63 | 934634 | 46.49 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.113 | 72 | 251318 | 43.69 | PPBV | # | 8 |
| 42) CIS-1,2-DICHLOROETHENE | 3.332 | 96 | 498177 | 52.22 | PPBV | # | 74 |
| 43) DIISOPROPYL ETHER | 3.476 | 59 | 224437 | 50.17 | PPBV | | 71 |
| 44) ETHYL ACETATE | 3.483 | 61 | 152917 | 47.39 | PPBV | # | 37 |
| 45) METHYL ACRYLATE | 3.467 | 55 | 990552 | 53.29 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.499 | 83 | 842698 | 43.69 | PPBV | # | 94 |
| 47) 2,4-DIMETHYLPENTANE | 4.023 | 57 | 787000 | 46.38 | PPBV | | 96 |
| 48) 1,1,1-TRICHLOROETHANE | 4.110 | 97 | 835477 | 43.87 | PPBV | | 96 |
| 49) CARBON TETRACHLORIDE | 4.563 | 117 | 868396 | 44.58 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.936 | 62 | 584945 | 45.75 | PPBV | # | 95 |
| 51) BENZENE | 4.444 | 78 | 1190501 | 42.56 | PPBV | | 86 |
| 53) CYCLOHEXANE | 4.666 | 84 | 525910 | 54.91 | PPBV | | 86 |
| 54) 2,3-DIMETHYLPENTANE | 4.939 | 71 | 271195 | 54.94 | PPBV | # | 68 |
| 55) TRICHLOROETHENE | 5.406 | 95 | 541690 | 54.15 | PPBV | | 98 |
| 56) 1,2-DICHLOROPROPANE | 5.161 | 63 | 479850 | 58.29 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.119 | 174 | 500899 | 55.34 | PPBV | | 90 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25325.D
Acq On : 5 Aug 2022 12:59 am
Operator : thomash
Sample : ic1077-50
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:51:36 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

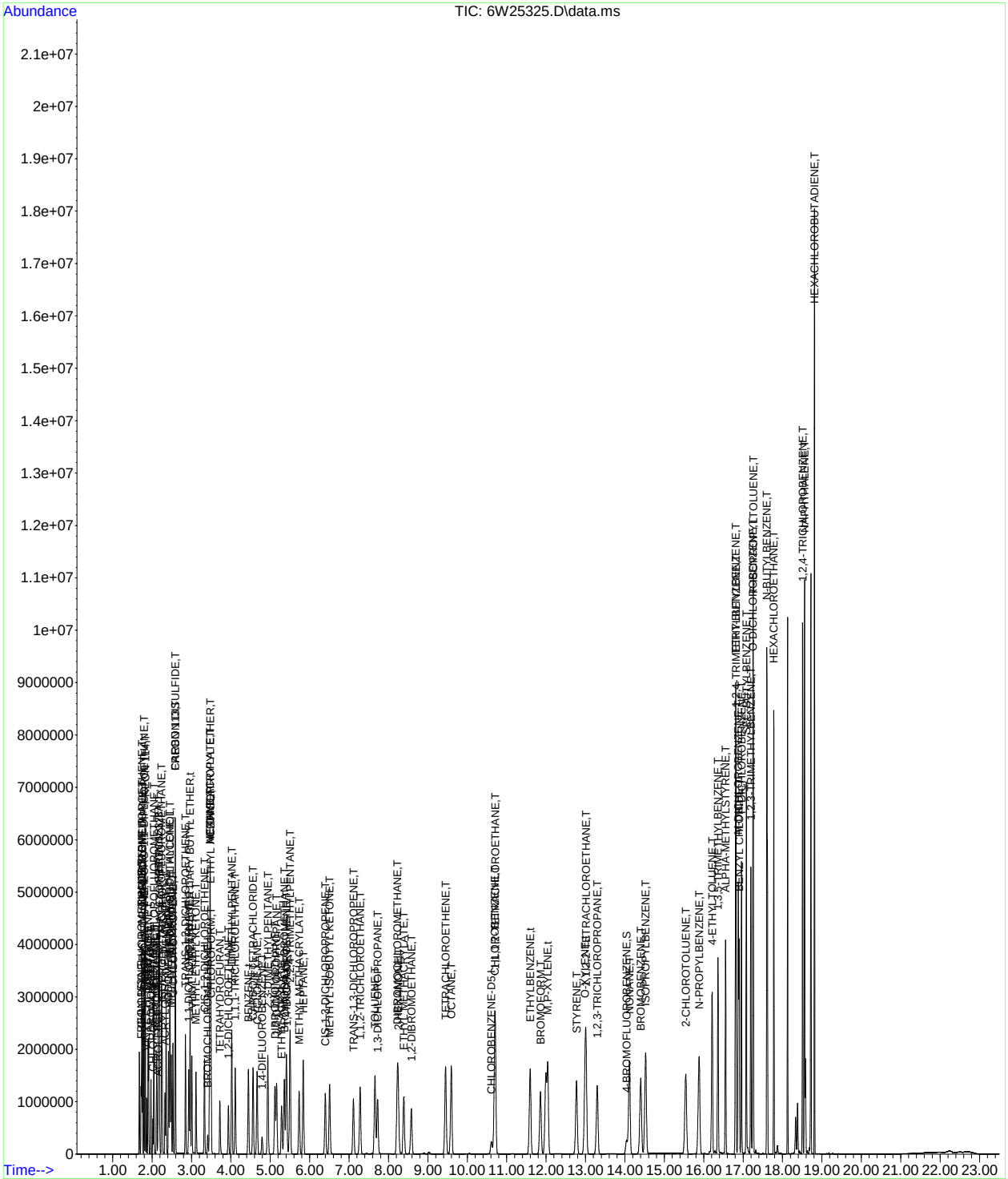
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 58) | ETHYL ACRYLATE | 5.287 | 55 | 1082788 | 59.75 | PPBV | | 98 |
| 59) | BROMODICHLOROMETHANE | 5.357 | 83 | 929950 | 56.99 | PPBV | | 100 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.502 | 57 | 2137111 | 59.39 | PPBV | | 98 |
| 61) | 1,4-DIOXANE | 5.418 | 88 | 289108 | 53.64 | PPBV | # | 84 |
| 62) | HEPTANE | 5.836 | 43 | 801894 | 61.86 | PPBV | # | 80 |
| 63) | METHYL METHACRYLATE | 5.734 | 69 | 475695 | 55.50 | PPBV | # | 65 |
| 64) | METHYL ISOBUTYL KETONE | 6.505 | 58 | 422046 | 58.31 | PPBV | # | 71 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.396 | 75 | 740894 | 57.17 | PPBV | # | 76 |
| 66) | TOLUENE | 7.660 | 91 | 1466951 | 54.08 | PPBV | | 100 |
| 67) | 1,3-DICHLOROPROPANE | 7.724 | 76 | 755452 | 55.28 | PPBV | | 99 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.110 | 75 | 702340 | 58.04 | PPBV | # | 79 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.280 | 83 | 443669 | 54.79 | PPBV | | 98 |
| 70) | 2-HEXANONE | 8.248 | 58 | 529596 | 58.99 | PPBV | # | 72 |
| 71) | ETHYL METHACRYLATE | 8.389 | 69 | 777839 | 55.80 | PPBV | # | 77 |
| 72) | TETRACHLOROETHENE | 9.450 | 164 | 552866 | 54.88 | PPBV | | 96 |
| 73) | DIBROMOCHLOROMETHANE | 8.222 | 129 | 946022 | 57.78 | PPBV | | 99 |
| 74) | 1,2-DIBROMOETHANE | 8.579 | 107 | 818185 | 55.01 | PPBV | | 99 |
| 75) | OCTANE | 9.592 | 43 | 1125874 | 62.55 | PPBV | # | 81 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.711 | 131 | 651904 | 55.96 | PPBV | | 94 |
| 78) | CHLOROBENZENE | 10.698 | 112 | 1215189 | 54.80 | PPBV | | 98 |
| 79) | ETHYLBENZENE | 11.595 | 91 | 1988171 | 54.76 | PPBV | | 99 |
| 80) | M,P-XYLENE | 12.039 | 91 | 3080290m | 110.01 | PPBV | | |
| 81) | O-XYLENE | 12.991 | 91 | 1569123 | 55.51 | PPBV | | 97 |
| 82) | STYRENE | 12.772 | 104 | 1197406 | 55.03 | PPBV | | 96 |
| 83) | NONANE | 14.116 | 43 | 1200760 | 62.66 | PPBV | # | 78 |
| 84) | BROMOFORM | 11.859 | 173 | 911191 | 60.54 | PPBV | | 99 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 13.013 | 83 | 1230691 | 56.55 | PPBV | | 100 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.299 | 75 | 911447 | 56.09 | PPBV | # | 100 |
| 88) | ISOPROPYLBENZENE | 14.527 | 120 | 614760 | 55.25 | PPBV | | 88 |
| 89) | BROMOBENZENE | 14.402 | 77 | 1141875 | 55.81 | PPBV | | 94 |
| 90) | 2-CHLOROTOLUENE | 15.547 | 126 | 554105 | 54.22 | PPBV | | 99 |
| 91) | N-PROPYLBENZENE | 15.884 | 120 | 626559 | 54.77 | PPBV | | 98 |
| 92) | 4-ETHYLTOLUENE | 16.215 | 105 | 2352426 | 56.47 | PPBV | | 100 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.363 | 105 | 1964909 | 57.21 | PPBV | | 98 |
| 94) | ALPHA-METHYLSTYRENE | 16.553 | 118 | 1000007 | 57.48 | PPBV | | 98 |
| 95) | TERT-BUTYLBENZENE | 16.810 | 134 | 501843 | 59.43 | PPBV | | 96 |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.820 | 105 | 2234022 | 62.67 | PPBV | | 92 |
| 97) | BENZYL CHLORIDE | 16.900 | 91 | 2027730 | 65.04 | PPBV | # | 97 |
| 98) | M-DICHLOROBENZENE | 16.878 | 146 | 1393361 | 57.88 | PPBV | | 98 |
| 99) | P-DICHLOROBENZENE | 16.958 | 146 | 1435481 | 58.25 | PPBV | | 98 |
| 100) | O-DICHLOROBENZENE | 17.248 | 146 | 1431945 | 61.58 | PPBV | | 97 |
| 101) | SEC-BUTYLBENZENE | 17.080 | 134 | 635713 | 59.78 | PPBV | | 99 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.196 | 105 | 2096930 | 60.82 | PPBV | # | 97 |
| 103) | P-ISOPROPYLTOLUENE | 17.257 | 134 | 743379 | 62.59 | PPBV | | 97 |
| 104) | N-BUTYLBENZENE | 17.601 | 134 | 715427 | 63.16 | PPBV | | 90 |
| 105) | HEXACHLOROETHANE | 17.778 | 117 | 977554 | 69.95 | PPBV | | 92 |
| 106) | HEXACHLOROBUTADIENE | 18.810 | 225 | 1496860 | 86.53 | PPBV | | 98 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.511 | 180 | 1670997 | 72.09 | PPBV | | 98 |
| 108) | NAPHTHALENE | 18.559 | 128 | 4184654 | 68.67 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25325.D
Acq On : 5 Aug 2022 12:59 am
Operator : thomash
Sample : ic1077-50
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:51:36 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V6W1077-IC1077
**Lab FileID:** 6W25325.D
**Injection Time:** 08/05/22 00:59

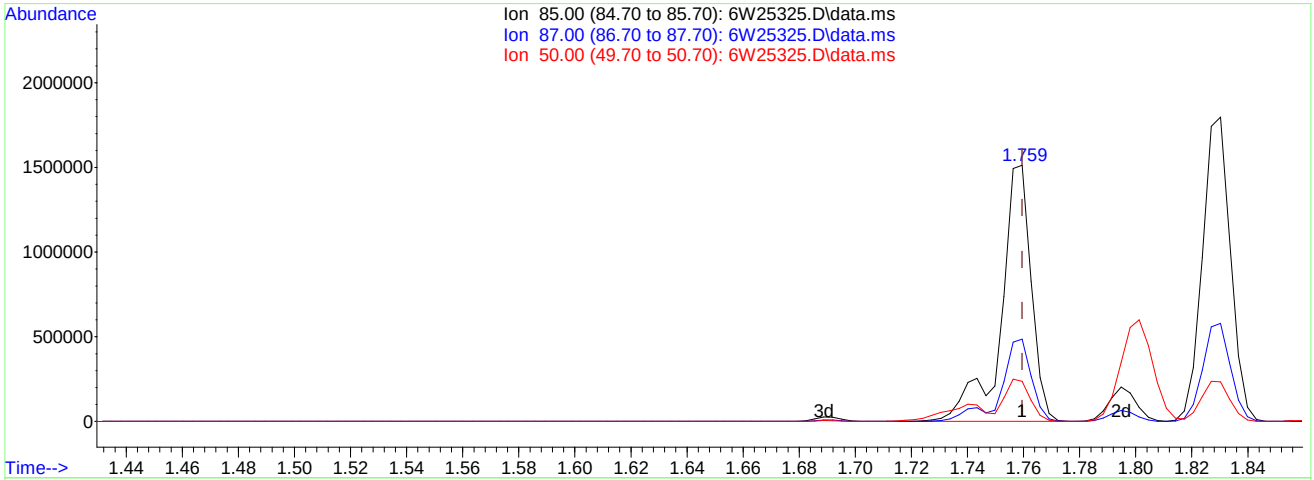
**Method:** TO-15
**Analyst approved:** 08/05/22 10:02 Thomas Hilbig
**Supervisor approved:** 08/08/22 10:23 Kanya Veerawat

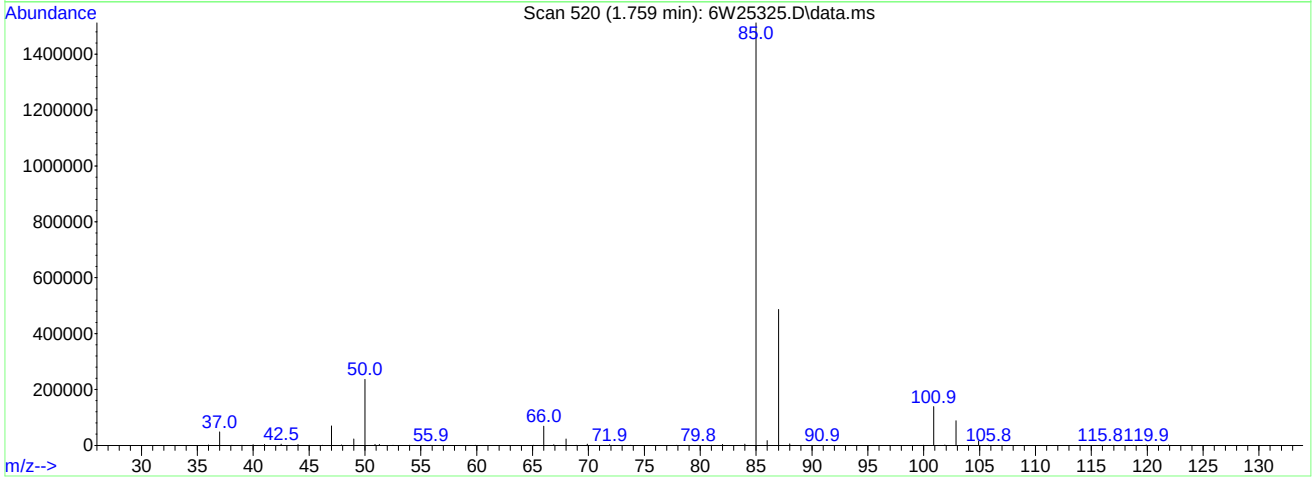
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.76 | Overlapping peak |
| m,p-Xylene | | | 12.04 | Split peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25325.D
Acq On : 5 Aug 2022 12:59 am
Operator : thomash
Sample : ic1077-50
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:50:26 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25325.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.759min (-0.000) 41.17PPBV

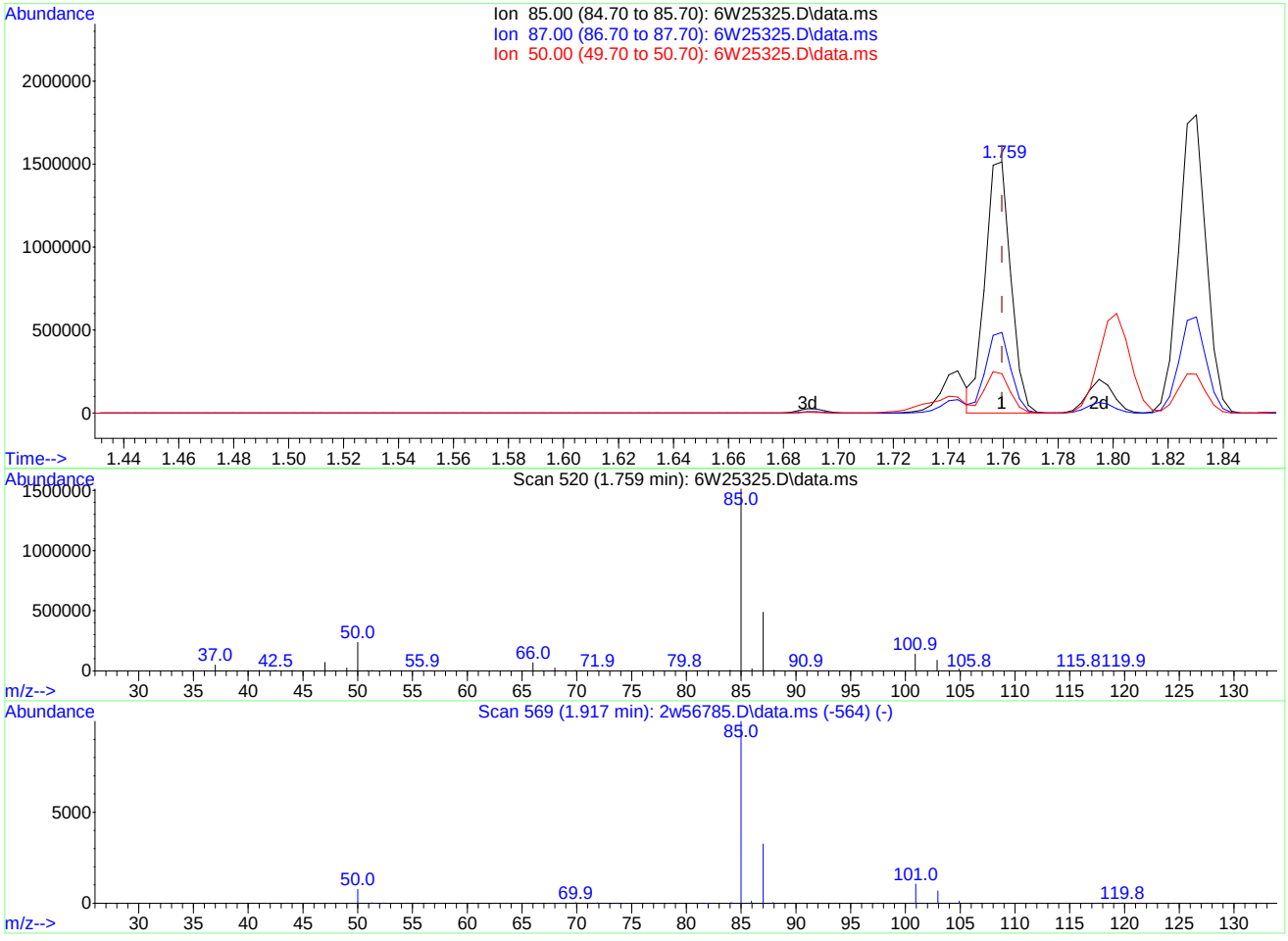
response 1143874

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.01 |
| 50.00 | 9.30 | 22.87# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25325.D
Acq On : 5 Aug 2022 12:59 am
Operator : thomash
Sample : ic1077-50
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:50:26 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25325.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.759min (-0.000) 35.39PPBV m

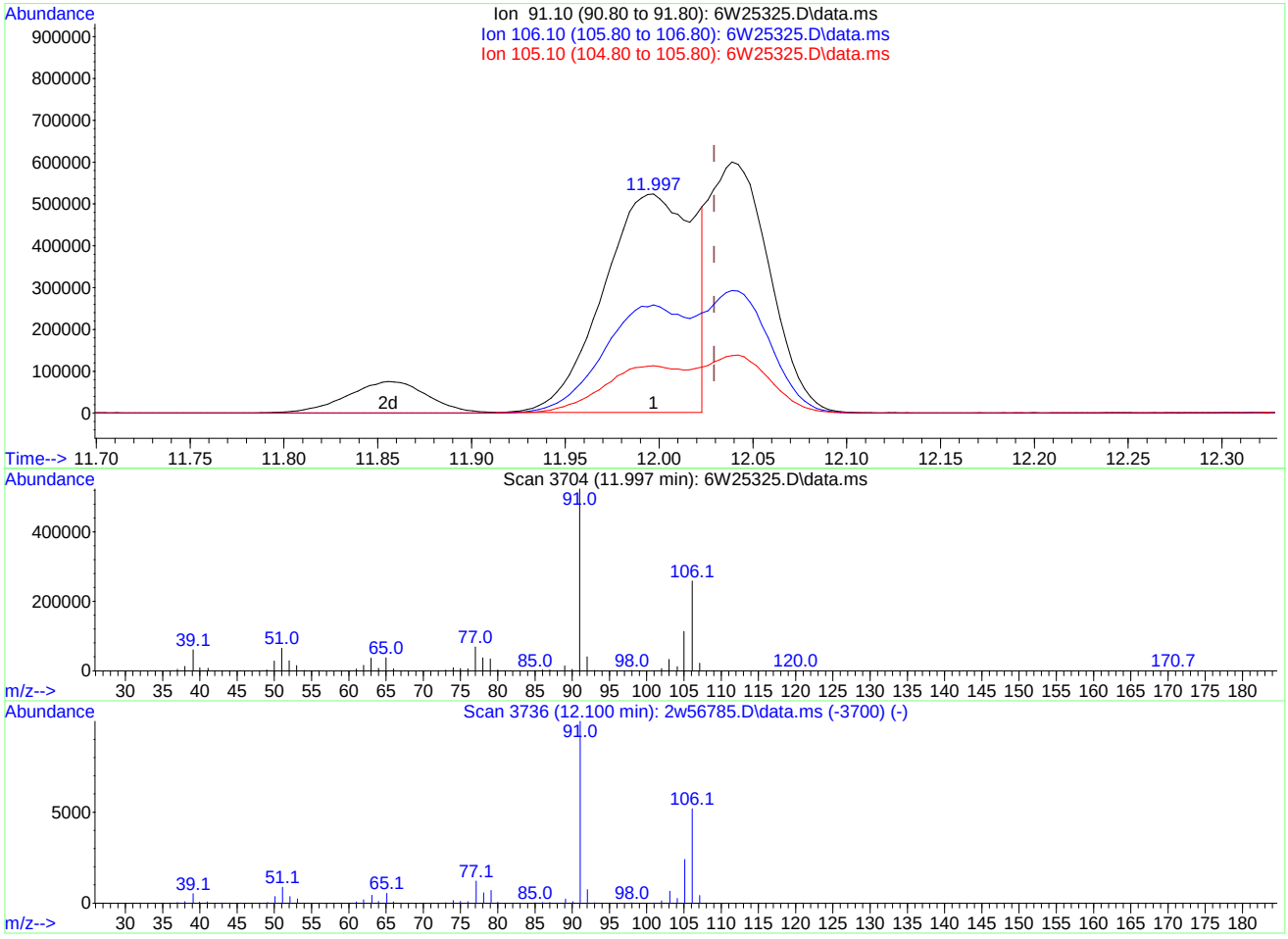
response 983363

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 37.23 |
| 50.00 | 9.30 | 26.61# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25325.D
Acq On : 5 Aug 2022 12:59 am
Operator : thomash
Sample : ic1077-50
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:50:26 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25325.D\data.ms

(80) M,P-XYLENE (t)

11.997min (-0.032) 62.71PPBV

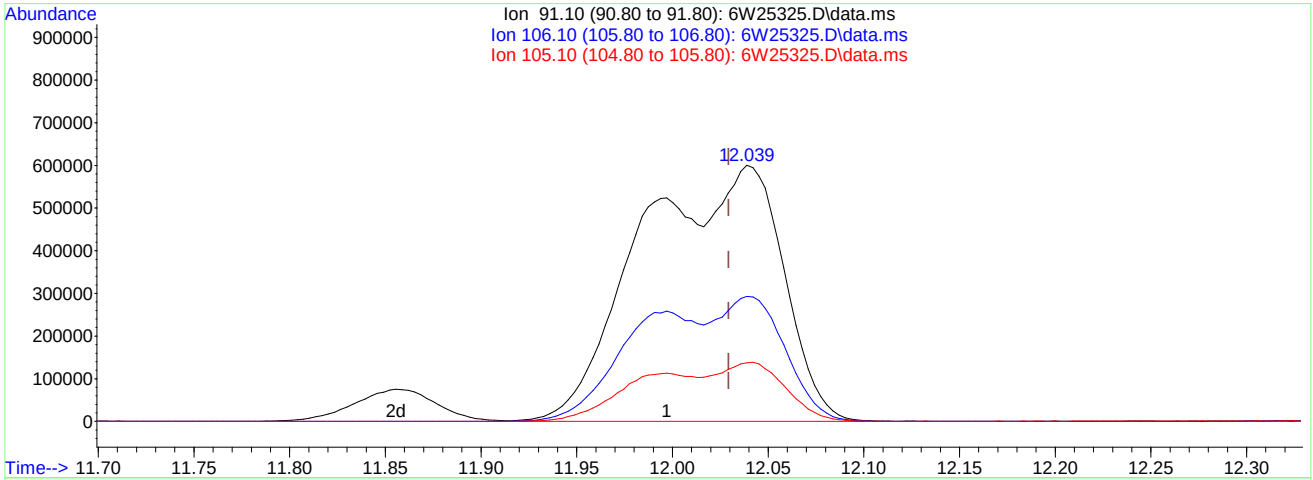
response 1755795

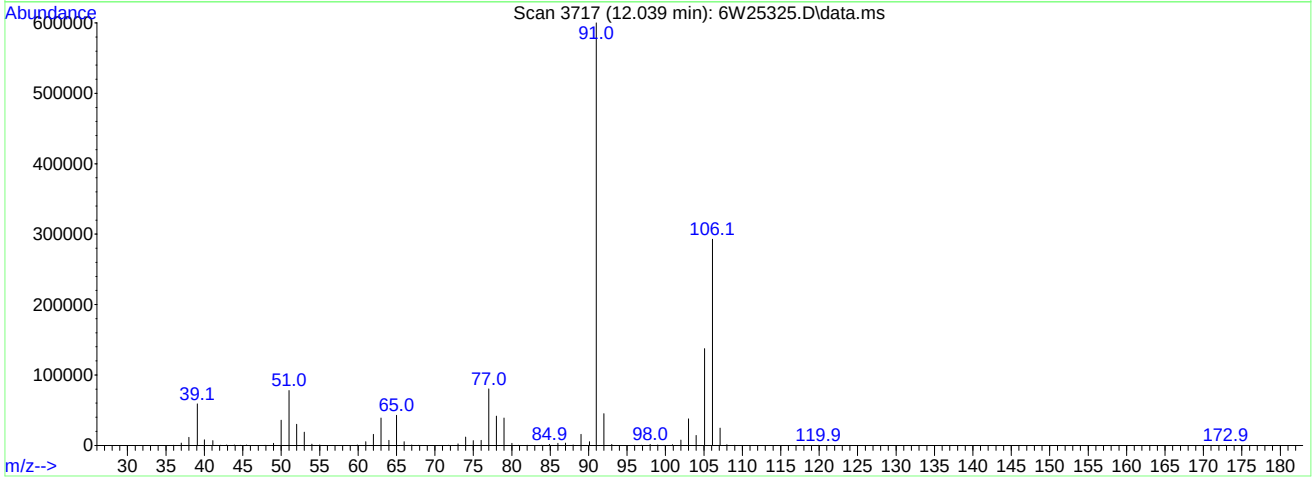
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 44.27 |
| 105.10 | 23.60 | 19.55 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25325.D
Acq On : 5 Aug 2022 12:59 am
Operator : thomash
Sample : ic1077-50
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:51:36 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration




TIC: 6W25325.D\data.ms

(80) M,P-XYLENE (t)

12.039min (+0.010) 110.01PPBV m

response 3080290

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 25.24# |
| 105.10 | 23.60 | 11.14 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/22 10:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25328.D
Acq On : 5 Aug 2022 3:17 am
Operator : thomash
Sample : icv1077-10
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 09:00:41 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.412 | 128 | 46434 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.792 | 114 | 243152 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.608 | 117 | 215434 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.032 | 95 | 151470 | 10.02 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.721 | 65 | 39307 | 9.44 | PPBV | # | 81 |
| 4) CHLORODIFLUOROMETHANE | 1.734 | 67 | 17560 | 9.38 | PPBV | | 97 |
| 5) CHLOROTRIFLUOROETHENE | 1.743 | 116 | 87800 | 9.68 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.760 | 85 | 226980m | 10.20 | PPBV | | |
| 7) PROPYLENE | 1.740 | 41 | 59308 | 9.60 | PPBV | | 96 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.795 | 65 | 223700 | 9.42 | PPBV | # | 85 |
| 9) FREON 114 | 1.830 | 85 | 229060 | 9.45 | PPBV | | 92 |
| 10) CHLOROMETHANE | 1.801 | 52 | 28615 | 10.01 | PPBV | | 91 |
| 11) VINYL CHLORIDE | 1.862 | 62 | 96113 | 9.21 | PPBV | | 97 |
| 12) 1,3-BUTADIENE | 1.898 | 54 | 76996 | 9.97 | PPBV | # | 72 |
| 13) N-BUTANE | 1.914 | 43 | 153635 | 8.98 | PPBV | # | 90 |
| 14) BROMOMETHANE | 1.972 | 94 | 75730 | 9.05 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.020 | 64 | 49171 | 8.79 | PPBV | | 95 |
| 16) DICHLOROFLUOROMETHANE | 2.046 | 67 | 200514 | 9.30 | PPBV | # | 94 |
| 17) ACETONITRILE | 2.113 | 41 | 89246 | 8.91 | PPBV | | 96 |
| 18) ACROLEIN | 2.149 | 56 | 18857 | 5.76 | PPBV | | 100 |
| 19) FREON 123 | 2.165 | 83 | 198172 | 9.56 | PPBV | | 97 |
| 20) FREON 123A | 2.181 | 117 | 115754 | 10.08 | PPBV | # | 73 |
| 21) TRICHLOROFLUOROMETHANE | 2.245 | 101 | 227237 | 9.46 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.261 | 45 | 211909 | 9.70 | PPBV | # | 96 |
| 23) ACETONE | 2.190 | 58 | 65448 | 10.85 | PPBV | | 82 |
| 24) PENTANE | 2.358 | 42 | 109935 | 9.80 | PPBV | # | 93 |
| 25) IODOMETHANE | 2.419 | 142 | 204939 | 9.37 | PPBV | # | 82 |
| 26) 1,1-DICHLOROETHYLENE | 2.448 | 96 | 81096 | 9.28 | PPBV | # | 51 |
| 27) CARBON DISULFIDE | 2.592 | 76 | 237628 | 8.72 | PPBV | # | 83 |
| 28) ETHANOL | 2.049 | 45 | 52692 | 10.73 | PPBV | # | 98 |
| 29) BROMOETHENE | 2.120 | 106 | 76981 | 9.46 | PPBV | # | 96 |
| 30) ACRYLONITRILE | 2.329 | 52 | 71309 | 9.39 | PPBV | | 96 |
| 31) METHYLENE CHLORIDE | 2.486 | 84 | 75226 | 9.12 | PPBV | # | 53 |
| 32) 3-CHLOROPROPENE | 2.531 | 76 | 43624 | 9.10 | PPBV | # | 1 |
| 33) FREON 113 | 2.589 | 151 | 132347 | 9.24 | PPBV | | 87 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.846 | 96 | 86913 | 8.84 | PPBV | # | 76 |
| 35) TERTIARY BUTYL ALCOHOL | 2.461 | 59 | 204283 | 8.38 | PPBV | # | 81 |
| 36) METHYL TERTIARY BUTYL ... | 2.965 | 73 | 264981 | 9.25 | PPBV | # | 91 |
| 37) TETRAHYDROFURAN | 3.724 | 72 | 33517 | 9.99 | PPBV | # | 60 |
| 38) HEXANE | 3.467 | 57 | 126103 | 9.40 | PPBV | # | 77 |
| 39) VINYL ACETATE | 3.007 | 86 | 21789 | 9.06 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.933 | 63 | 176319 | 9.42 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.116 | 72 | 47615 | 10.08 | PPBV | # | 6 |
| 42) CIS-1,2-DICHLOROETHENE | 3.329 | 96 | 73690 | 9.42 | PPBV | | 86 |
| 43) DIISOPROPYL ETHER | 3.473 | 59 | 38437 | 10.00 | PPBV | | 68 |
| 44) ETHYL ACETATE | 3.480 | 61 | 26517 | 10.24 | PPBV | # | 40 |
| 45) METHYL ACRYLATE | 3.464 | 55 | 156201 | 9.50 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.496 | 83 | 149910 | 9.15 | PPBV | # | 94 |
| 47) 2,4-DIMETHYLPENTANE | 4.023 | 57 | 144105 | 9.43 | PPBV | | 94 |
| 48) 1,1,1-TRICHLOROETHANE | 4.110 | 97 | 149590 | 9.41 | PPBV | | 96 |
| 49) CARBON TETRACHLORIDE | 4.560 | 117 | 151909 | 9.49 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 3.933 | 62 | 108460 | 9.19 | PPBV | # | 94 |
| 51) BENZENE | 4.444 | 78 | 217018 | 9.12 | PPBV | | 85 |
| 53) CYCLOHEXANE | 4.666 | 84 | 96140 | 9.60 | PPBV | | 86 |
| 54) 2,3-DIMETHYLPENTANE | 4.936 | 71 | 49904 | 9.77 | PPBV | # | 69 |
| 55) TRICHLOROETHENE | 5.402 | 95 | 97913 | 9.46 | PPBV | | 99 |
| 56) 1,2-DICHLOROPROPANE | 5.158 | 63 | 86234 | 9.67 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.116 | 174 | 91117 | 9.13 | PPBV | | 90 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25328.D
Acq On : 5 Aug 2022 3:17 am
Operator : thomash
Sample : icv1077-10
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 09:00:41 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

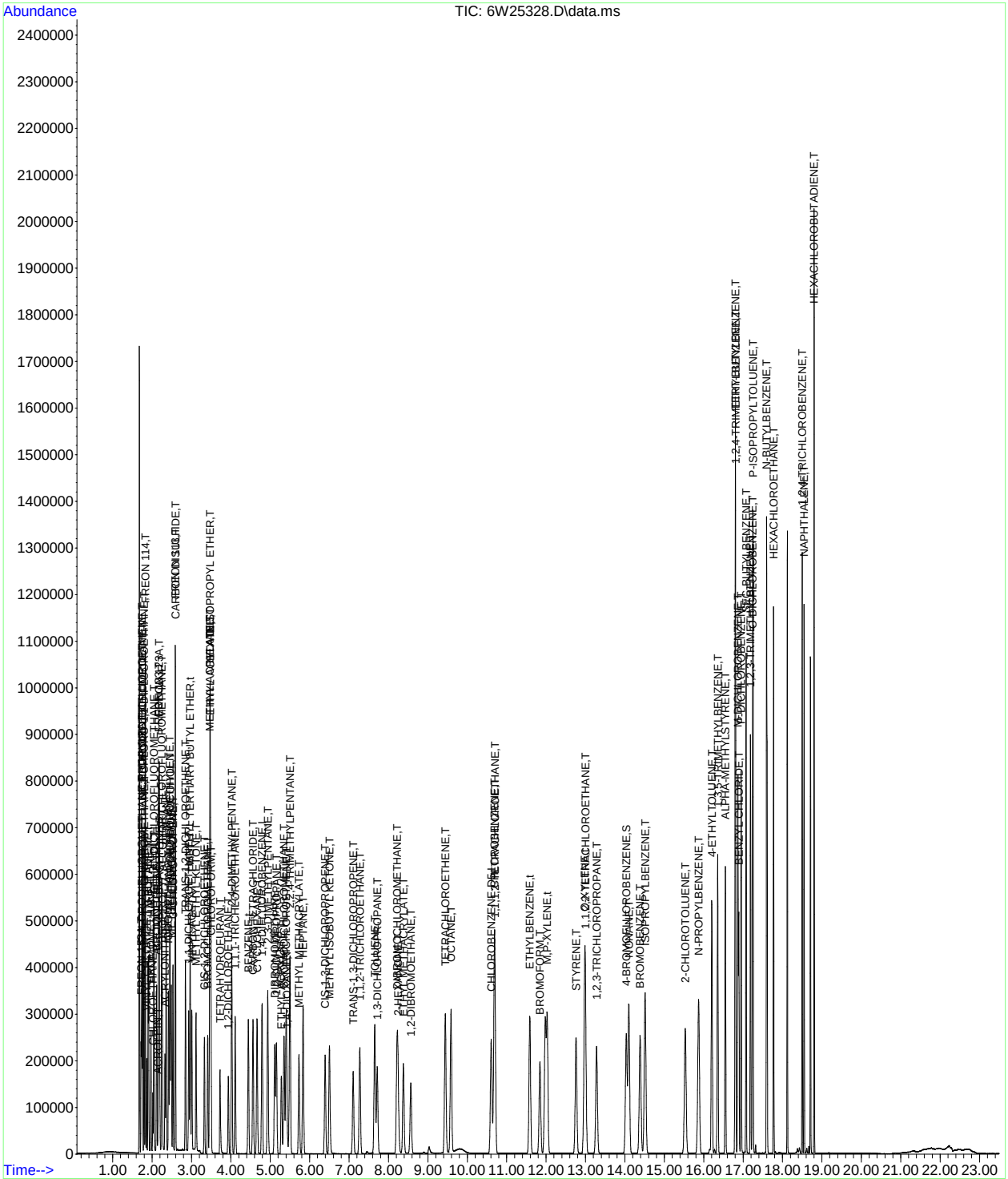
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.280 | 55 | 188382 | 9.91 | PPBV | | 98 |
| 59) BROMODICHLOROMETHANE | 5.348 | 83 | 166374 | 9.71 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.499 | 57 | 392961 | 9.45 | PPBV | | 98 |
| 61) 1,4-DIOXANE | 5.422 | 88 | 51746 | 10.75 | PPBV | # | 87 |
| 62) HEPTANE | 5.833 | 43 | 149474 | 9.49 | PPBV | # | 79 |
| 63) METHYL METHACRYLATE | 5.727 | 69 | 83896 | 10.07 | PPBV | # | 64 |
| 64) METHYL ISOBUTYL KETONE | 6.502 | 58 | 74149 | 10.13 | PPBV | # | 69 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.393 | 75 | 136926 | 10.26 | PPBV | # | 76 |
| 66) TOLUENE | 7.653 | 91 | 266892 | 9.27 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.714 | 76 | 135235 | 9.23 | PPBV | | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.103 | 75 | 117919 | 9.36 | PPBV | # | 78 |
| 69) 1,1,2-TRICHLOROETHANE | 7.274 | 83 | 79549 | 9.27 | PPBV | | 99 |
| 70) 2-HEXANONE | 8.245 | 58 | 77282 | 9.65 | PPBV | # | 70 |
| 71) ETHYL METHACRYLATE | 8.377 | 69 | 133986 | 10.58 | PPBV | # | 76 |
| 72) TETRACHLOROETHENE | 9.444 | 164 | 99025 | 9.43 | PPBV | | 95 |
| 73) DIBROMOCHLOROMETHANE | 8.216 | 129 | 158772 | 9.75 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.570 | 107 | 145848 | 9.43 | PPBV | | 100 |
| 75) OCTANE | 9.589 | 43 | 204638 | 9.38 | PPBV | # | 80 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.705 | 131 | 113457 | 9.64 | PPBV | | 94 |
| 78) CHLOROBENZENE | 10.688 | 112 | 217766 | 9.36 | PPBV | | 98 |
| 79) ETHYLBENZENE | 11.586 | 91 | 351665 | 9.15 | PPBV | | 100 |
| 80) M,P-XYLENE | 12.023 | 91 | 548844 | 18.87 | PPBV | # | 63 |
| 81) O-XYLENE | 12.978 | 91 | 280095 | 9.32 | PPBV | | 97 |
| 82) STYRENE | 12.762 | 104 | 210543 | 9.95 | PPBV | | 96 |
| 83) NONANE | 14.103 | 43 | 217245 | 9.63 | PPBV | # | 77 |
| 84) BROMOFORM | 11.843 | 173 | 147061 | 9.87 | PPBV | # | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 13.000 | 83 | 216959 | 9.37 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.283 | 75 | 160861 | 9.28 | PPBV | | 100 |
| 88) ISOPROPYLBENZENE | 14.511 | 120 | 111170 | 9.73 | PPBV | | 88 |
| 89) BROMOBENZENE | 14.383 | 77 | 199598 | 9.05 | PPBV | | 94 |
| 90) 2-CHLOROTOLUENE | 15.534 | 126 | 95671 | 9.55 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.872 | 120 | 110306 | 9.60 | PPBV | | 100 |
| 92) 4-ETHYLTOLUENE | 16.206 | 105 | 406395 | 9.75 | PPBV | | 100 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.354 | 105 | 333206 | 9.55 | PPBV | | 98 |
| 94) ALPHA-METHYLSTYRENE | 16.550 | 118 | 153871 | 9.47 | PPBV | | 98 |
| 95) TERT-BUTYLBENZENE | 16.801 | 134 | 81067 | 8.95 | PPBV | | 98 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.807 | 105 | 343869 | 9.33 | PPBV | | 95 |
| 97) BENZYL CHLORIDE | 16.891 | 91 | 244581 | 8.35 | PPBV | # | 97 |
| 98) M-DICHLOROBENZENE | 16.868 | 146 | 227013 | 9.00 | PPBV | | 99 |
| 99) P-DICHLOROBENZENE | 16.949 | 146 | 231094 | 9.05 | PPBV | | 99 |
| 100) O-DICHLOROBENZENE | 17.238 | 146 | 218704 | 8.98 | PPBV | | 98 |
| 101) SEC-BUTYLBENZENE | 17.077 | 134 | 101784 | 9.30 | PPBV | | 99 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.187 | 105 | 329748 | 9.17 | PPBV | | 99 |
| 103) P-ISOPROPYLTOLUENE | 17.251 | 134 | 110776 | 8.94 | PPBV | | 100 |
| 104) N-BUTYLBENZENE | 17.595 | 134 | 107376 | 9.20 | PPBV | | 91 |
| 105) HEXACHLOROETHANE | 17.772 | 117 | 134052 | 9.33 | PPBV | | 93 |
| 106) HEXACHLOROBUTADIENE | 18.801 | 225 | 177049 | 8.28 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.498 | 180 | 195626 | 7.82 | PPBV | | 98 |
| 108) NAPHTHALENE | 18.547 | 128 | 467004 | 7.51 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25328.D
Acq On : 5 Aug 2022 3:17 am
Operator : thomash
Sample : icv1077-10
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 09:00:41 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



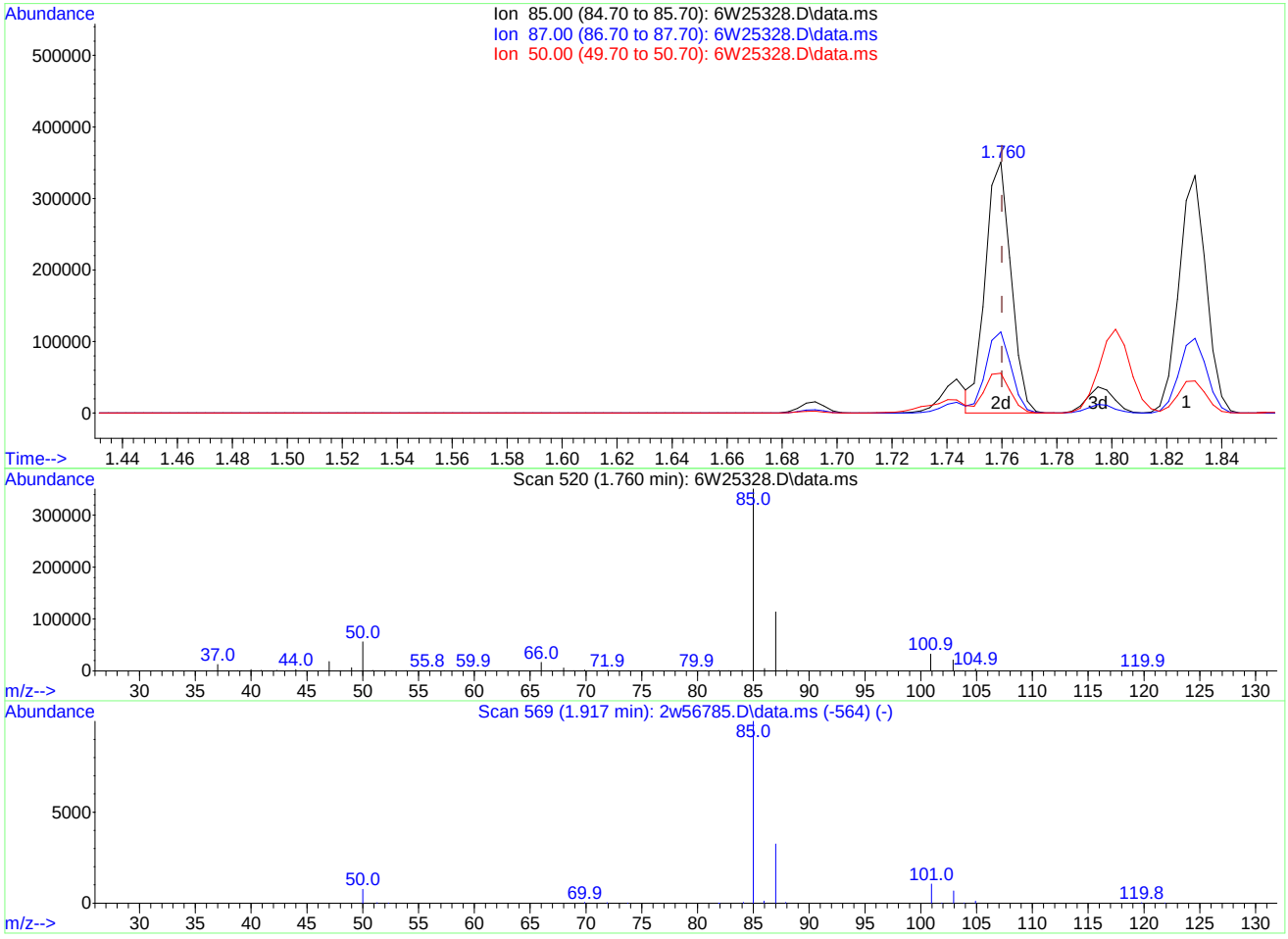
**Sample Number:** V6W1077-ICV1077 **Method:** TO-15
**Lab FileID:** 6W25328.D **Analyst approved:** 08/05/22 10:02 Thomas Hilbig
**Injection Time:** 08/05/22 03:17 **Supervisor approved:** 08/08/22 10:23 Kanya Veerawat

| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.76 | Overlapping peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25328.D
Acq On : 5 Aug 2022 3:17 am
Operator : thomash
Sample : icv1077-10
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 08:59:52 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration




TIC: 6W25328.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.760min (-0.000) 10.20PPBV m

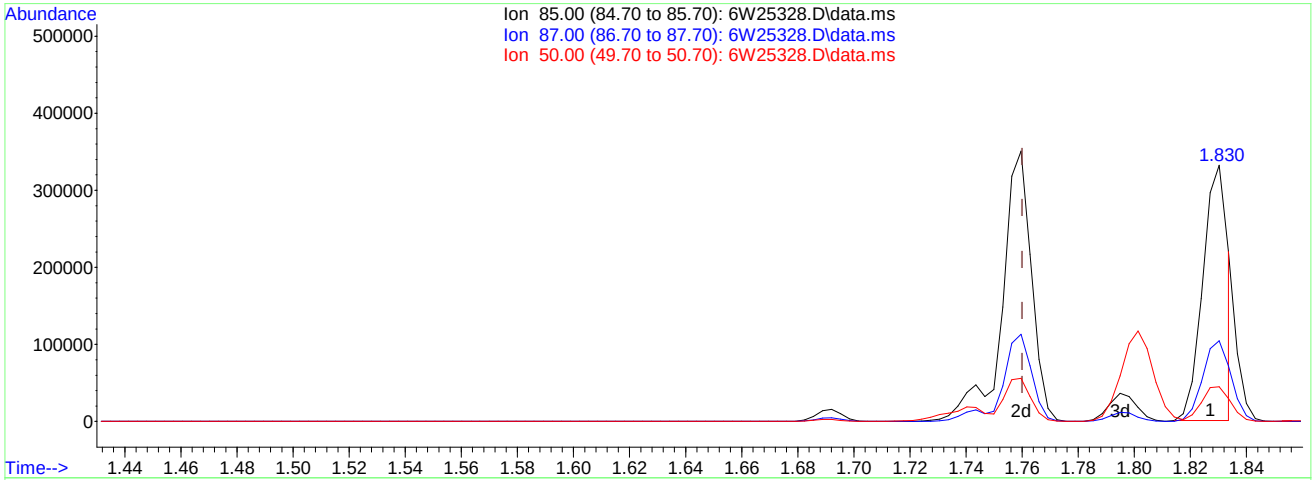
response 226980

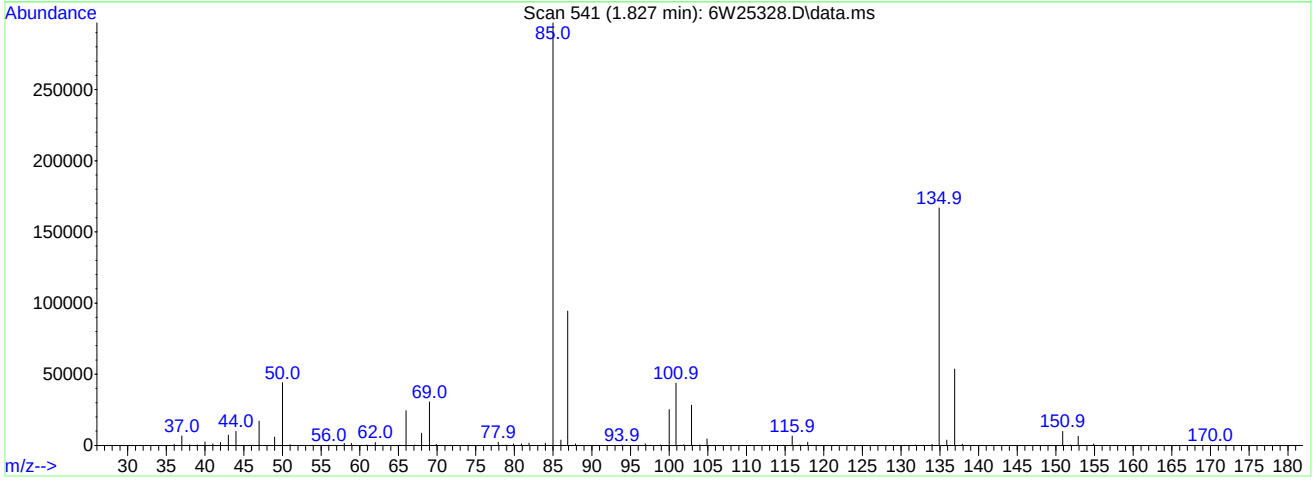
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 28.89 |
| 50.00 | 9.30 | 10.07 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25328.D
Acq On : 5 Aug 2022 3:17 am
Operator : thomash
Sample : icv1077-10
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 10:02:44 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration




TIC: 6W25328.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.827min (+0.067) 9.23PPBV

response 205360

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 31.93 |
| 50.00 | 9.30 | 11.13 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/16/22 00:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25439.D
Acq On : 11 Aug 2022 8:20 am
Operator : thomash
Sample : cc1077-10
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 14:24:49 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.415 | 128 | 58959 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.791 | 114 | 301259 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.605 | 117 | 259233 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.032 | 95 | 174281 | 9.58 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.721 | 65 | 45667m | 8.64 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.734 | 67 | 20998 | 8.84 | PPBV | | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.743 | 116 | 114878 | 9.98 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.759 | 85 | 333979 | 11.82 | PPBV | # | 94 |
| 7) PROPYLENE | 1.743 | 41 | 58110 | 7.41 | PPBV | | 98 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.795 | 65 | 265105 | 8.79 | PPBV | # | 89 |
| 9) FREON 114 | 1.830 | 85 | 309717 | 10.07 | PPBV | | 97 |
| 10) CHLOROMETHANE | 1.801 | 52 | 34051 | 9.39 | PPBV | | 92 |
| 11) VINYL CHLORIDE | 1.862 | 62 | 117347 | 8.86 | PPBV | | 98 |
| 12) 1,3-BUTADIENE | 1.901 | 54 | 92160 | 9.40 | PPBV | # | 78 |
| 13) N-BUTANE | 1.914 | 43 | 175853 | 8.09 | PPBV | # | 94 |
| 14) BROMOMETHANE | 1.972 | 94 | 103711 | 9.76 | PPBV | | 100 |
| 15) CHLOROETHANE | 2.020 | 64 | 60391 | 8.50 | PPBV | | 99 |
| 16) DICHLOROFLUOROMETHANE | 2.046 | 67 | 254416 | 9.30 | PPBV | # | 97 |
| 17) ACETONITRILE | 2.113 | 41 | 103315 | 8.12 | PPBV | | 96 |
| 18) ACROLEIN | 2.152 | 56 | 42420 | 10.21 | PPBV | | 98 |
| 19) FREON 123 | 2.164 | 83 | 255878 | 9.72 | PPBV | | 97 |
| 20) FREON 123A | 2.184 | 117 | 144886 | 9.93 | PPBV | | 86 |
| 21) TRICHLOROFLUOROMETHANE | 2.245 | 101 | 292536 | 9.59 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.264 | 45 | 235834 | 8.50 | PPBV | # | 95 |
| 23) ACETONE | 2.190 | 58 | 68038 | 8.88 | PPBV | # | 70 |
| 24) PENTANE | 2.357 | 42 | 118166 | 8.30 | PPBV | | 95 |
| 25) IODOMETHANE | 2.418 | 142 | 295461 | 10.64 | PPBV | | 89 |
| 26) 1,1-DICHLOROETHYLENE | 2.447 | 96 | 106600 | 9.61 | PPBV | # | 66 |
| 27) CARBON DISULFIDE | 2.592 | 76 | 340773 | 9.85 | PPBV | # | 89 |
| 28) ETHANOL | 2.052 | 45 | 55197 | 8.86 | PPBV | # | 98 |
| 29) BROMOETHENE | 2.119 | 106 | 104363 | 10.10 | PPBV | # | 97 |
| 30) ACRYLONITRILE | 2.332 | 52 | 85701 | 8.89 | PPBV | | 97 |
| 31) METHYLENE CHLORIDE | 2.486 | 84 | 102419 | 9.78 | PPBV | # | 70 |
| 32) 3-CHLOROPROPENE | 2.534 | 76 | 56351 | 9.25 | PPBV | # | 37 |
| 33) FREON 113 | 2.592 | 151 | 198190 | 10.90 | PPBV | | 96 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.849 | 96 | 121019 | 9.70 | PPBV | | 87 |
| 35) TERTIARY BUTYL ALCOHOL | 2.464 | 59 | 250277 | 8.08 | PPBV | # | 82 |
| 36) METHYL TERTIARY BUTYL ... | 2.968 | 73 | 327221 | 8.99 | PPBV | # | 94 |
| 37) TETRAHYDROFURAN | 3.724 | 72 | 40654 | 9.55 | PPBV | # | 82 |
| 38) HEXANE | 3.467 | 57 | 136652 | 8.02 | PPBV | # | 86 |
| 39) VINYL ACETATE | 3.010 | 86 | 32445 | 10.63 | PPBV | # | 20 |
| 40) 1,1-DICHLOROETHANE | 2.933 | 63 | 225645 | 9.49 | PPBV | | 98 |
| 41) METHYL ETHYL KETONE | 3.116 | 72 | 64445 | 10.75 | PPBV | # | 42 |
| 42) CIS-1,2-DICHLOROETHENE | 3.328 | 96 | 89950 | 9.06 | PPBV | | 93 |
| 43) DIISOPROPYL ETHER | 3.476 | 59 | 41036 | 8.40 | PPBV | | 80 |
| 44) ETHYL ACETATE | 3.480 | 61 | 28844 | 8.77 | PPBV | | 63 |
| 45) METHYL ACRYLATE | 3.467 | 55 | 175079 | 8.39 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.496 | 83 | 191802 | 9.22 | PPBV | # | 96 |
| 47) 2,4-DIMETHYLPENTANE | 4.023 | 57 | 157664 | 8.12 | PPBV | | 96 |
| 48) 1,1,1-TRICHLOROETHANE | 4.110 | 97 | 179059 | 8.87 | PPBV | | 98 |
| 49) CARBON TETRACHLORIDE | 4.563 | 117 | 188250 | 9.26 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 3.936 | 62 | 120063 | 8.01 | PPBV | # | 95 |
| 51) BENZENE | 4.441 | 78 | 262689 | 8.70 | PPBV | | 91 |
| 53) CYCLOHEXANE | 4.666 | 84 | 113460 | 9.15 | PPBV | | 95 |
| 54) 2,3-DIMETHYLPENTANE | 4.936 | 71 | 59214 | 9.35 | PPBV | | 85 |
| 55) TRICHLOROETHENE | 5.402 | 95 | 120476 | 9.40 | PPBV | | 95 |
| 56) 1,2-DICHLOROPROPANE | 5.158 | 63 | 101670 | 9.20 | PPBV | | 95 |
| 57) DIBROMOMETHANE | 5.116 | 174 | 125390 | 10.15 | PPBV | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25439.D
Acq On : 11 Aug 2022 8:20 am
Operator : thomash
Sample : cc1077-10
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 14:24:49 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

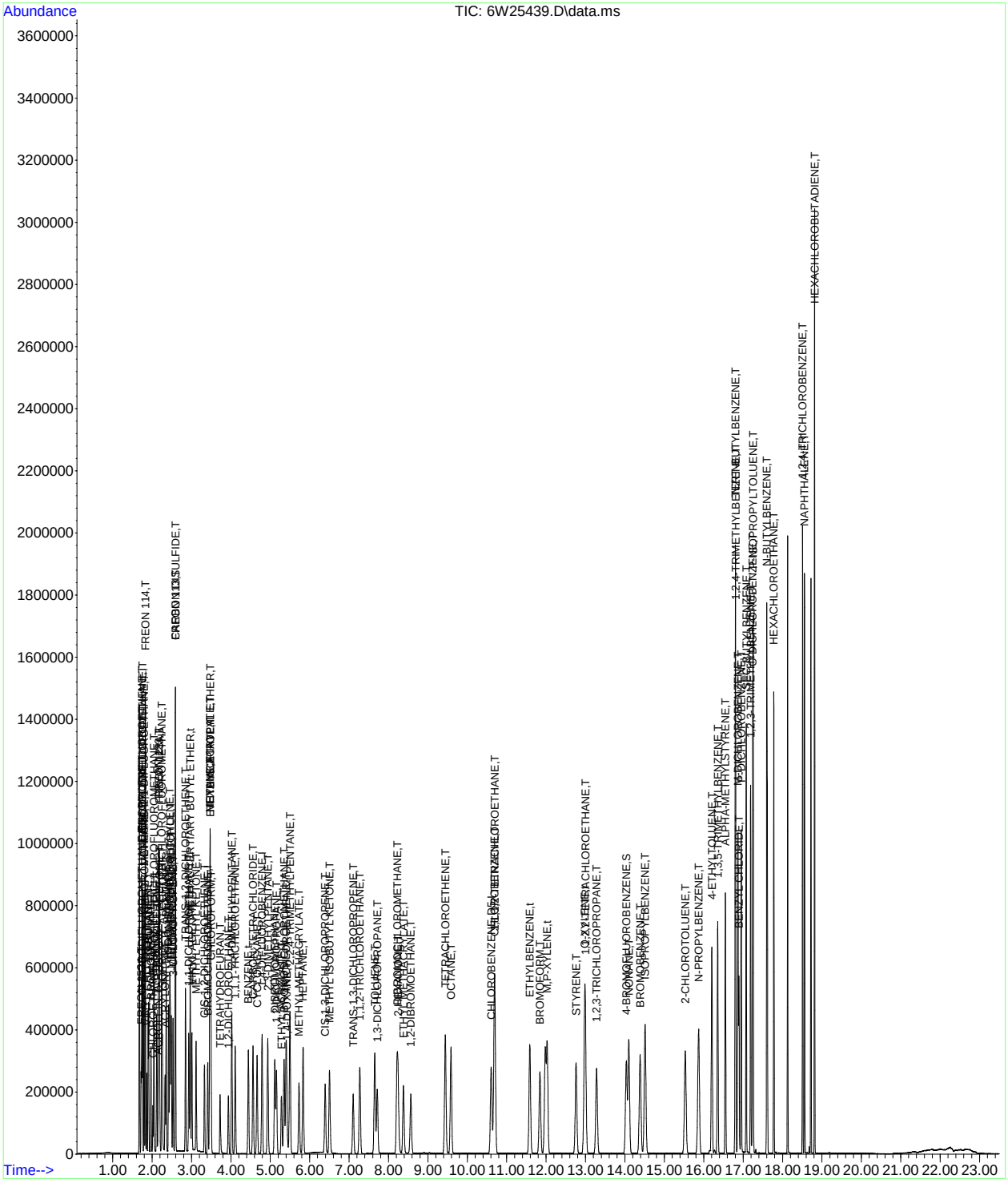
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.283 | 55 | 208647 | 8.86 | PPBV | | 99 |
| 59) BROMODICHLOROMETHANE | 5.351 | 83 | 203368 | 9.58 | PPBV | | 100 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.499 | 57 | 431884 | 8.38 | PPBV | | 99 |
| 61) 1,4-DIOXANE | 5.422 | 88 | 65554 | 11.00 | PPBV | # | 94 |
| 62) HEPTANE | 5.830 | 43 | 146922 | 7.53 | PPBV | | 89 |
| 63) METHYL METHACRYLATE | 5.730 | 69 | 97823 | 9.47 | PPBV | # | 80 |
| 64) METHYL ISOBUTYL KETONE | 6.502 | 58 | 87406 | 9.63 | PPBV | | 81 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.393 | 75 | 151648 | 9.17 | PPBV | # | 84 |
| 66) TOLUENE | 7.653 | 91 | 318933 | 8.94 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.717 | 76 | 165511 | 9.12 | PPBV | | 99 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.103 | 75 | 134079 | 8.59 | PPBV | # | 85 |
| 69) 1,1,2-TRICHLOROETHANE | 7.270 | 83 | 99869 | 9.39 | PPBV | | 99 |
| 70) 2-HEXANONE | 8.241 | 58 | 107185 | 10.80 | PPBV | # | 79 |
| 71) ETHYL METHACRYLATE | 8.380 | 69 | 159900 | 10.19 | PPBV | # | 86 |
| 72) TETRACHLOROETHENE | 9.444 | 164 | 134561 | 10.34 | PPBV | | 98 |
| 73) DIBROMOCHLOROMETHANE | 8.219 | 129 | 209145 | 10.37 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.566 | 107 | 181541 | 9.48 | PPBV | | 100 |
| 75) OCTANE | 9.585 | 43 | 209645 | 7.76 | PPBV | # | 86 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.698 | 131 | 147901 | 10.44 | PPBV | | 97 |
| 78) CHLOROBENZENE | 10.685 | 112 | 269810 | 9.64 | PPBV | | 100 |
| 79) ETHYLBENZENE | 11.582 | 91 | 424446 | 9.18 | PPBV | | 100 |
| 80) M,P-XYLENE | 12.026 | 91 | 661063 | 18.89 | PPBV | # | 65 |
| 81) O-XYLENE | 12.978 | 91 | 336395 | 9.30 | PPBV | | 97 |
| 82) STYRENE | 12.759 | 104 | 252837 | 9.93 | PPBV | | 97 |
| 83) NONANE | 14.103 | 43 | 226973 | 8.36 | PPBV | # | 84 |
| 84) BROMOFORM | 11.843 | 173 | 205988 | 11.48 | PPBV | # | 98 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.997 | 83 | 272856 | 9.79 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.277 | 75 | 198870 | 9.54 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.508 | 120 | 136880 | 9.96 | PPBV | | 92 |
| 89) BROMOBENZENE | 14.386 | 77 | 242723 | 9.14 | PPBV | | 96 |
| 90) 2-CHLOROTOLUENE | 15.534 | 126 | 121530 | 10.08 | PPBV | | 100 |
| 91) N-PROPYLBENZENE | 15.871 | 120 | 138569 | 10.03 | PPBV | | 99 |
| 92) 4-ETHYLTOLUENE | 16.206 | 105 | 499358 | 9.95 | PPBV | | 100 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.354 | 105 | 413464 | 9.85 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.550 | 118 | 210649 | 10.77 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.804 | 134 | 109371 | 10.04 | PPBV | | 92 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.810 | 105 | 437575 | 9.87 | PPBV | | 95 |
| 97) BENZYL CHLORIDE | 16.894 | 91 | 281633 | 7.99 | PPBV | | 98 |
| 98) M-DICHLOROBENZENE | 16.868 | 146 | 314430 | 10.36 | PPBV | | 100 |
| 99) P-DICHLOROBENZENE | 16.952 | 146 | 319638 | 10.40 | PPBV | | 100 |
| 100) O-DICHLOROBENZENE | 17.241 | 146 | 309115 | 10.54 | PPBV | | 100 |
| 101) SEC-BUTYLBENZENE | 17.080 | 134 | 139499 | 10.59 | PPBV | | 88 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.190 | 105 | 431043 | 9.96 | PPBV | | 98 |
| 103) P-ISOPROPYLTOLUENE | 17.254 | 134 | 157813 | 10.59 | PPBV | | 90 |
| 104) N-BUTYLBENZENE | 17.598 | 134 | 149771 | 10.66 | PPBV | | 96 |
| 105) HEXACHLOROETHANE | 17.778 | 117 | 172917 | 10.01 | PPBV | | 96 |
| 106) HEXACHLOROBUTADIENE | 18.813 | 225 | 273362 | 10.62 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.508 | 180 | 335628 | 11.15 | PPBV | | 99 |
| 108) NAPHTHALENE | 18.556 | 128 | 798498 | 10.67 | PPBV | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25439.D
Acq On : 11 Aug 2022 8:20 am
Operator : thomash
Sample : cc1077-10
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 14:24:49 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



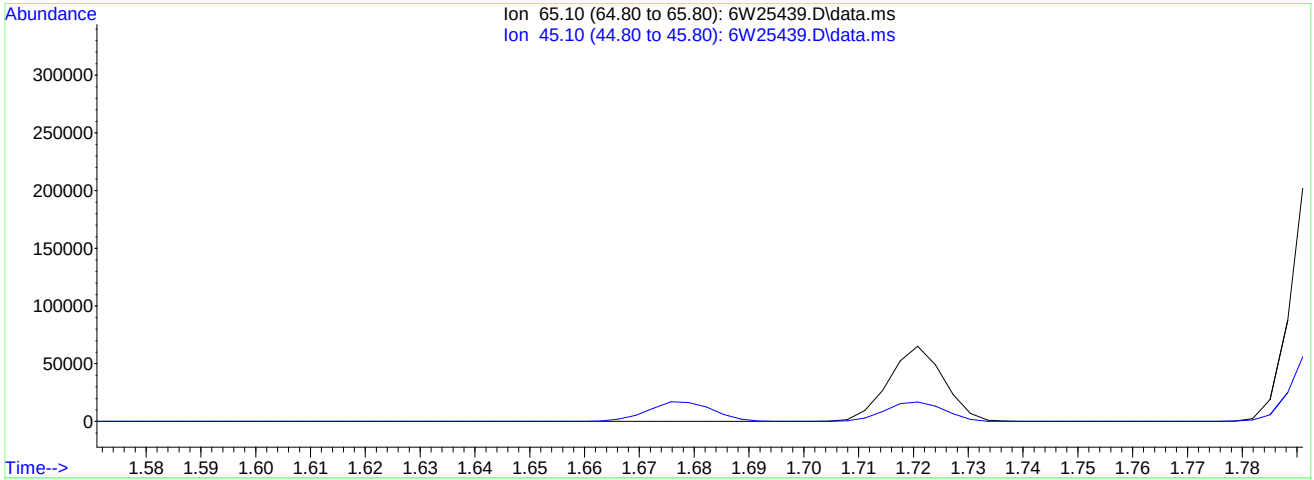
| | | | |
|---|---|---|---|
| **Sample Number:** | V6W1083-CC1077 | **Method:** | TO-15 |
| **Lab FileID:** | 6W25439.D | **Analyst approved:** | 08/11/22 14:56 Thomas Hilbig |
| **Injection Time:** | 08/11/22 08:20 | **Supervisor approved:** | 08/16/22 00:18 Kanya Veerawat |

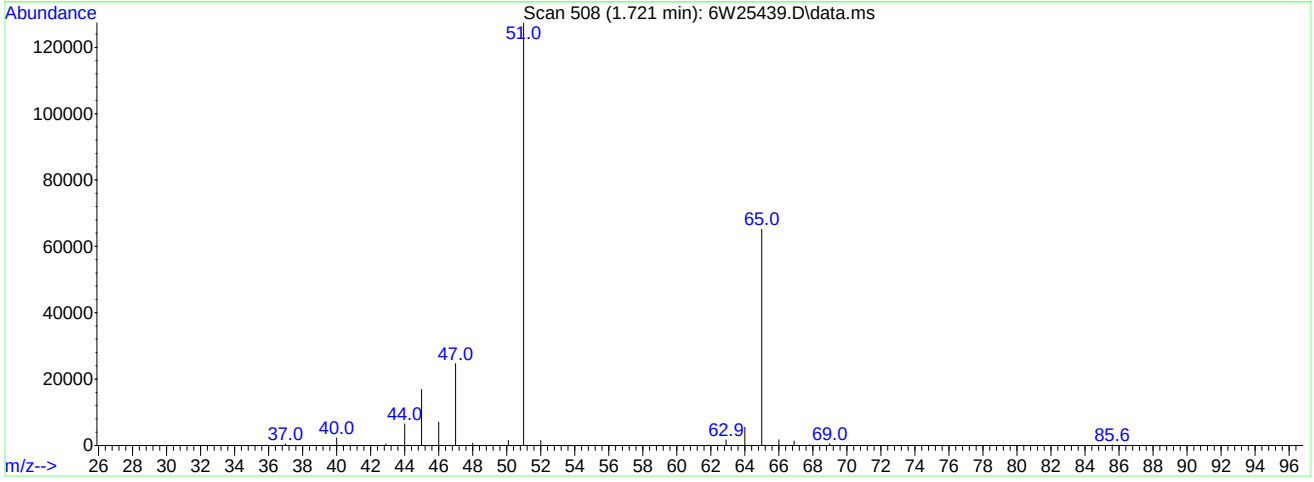
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.72 | Missed peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25439.D
Acq On : 11 Aug 2022 8:20 am
Operator : thomash
Sample : cc1077-10
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 08:48:34 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration




TIC: 6W25439.D\data.ms

(3) FREON 152A (T)

1.721min (-1.721) 0.00PPBV

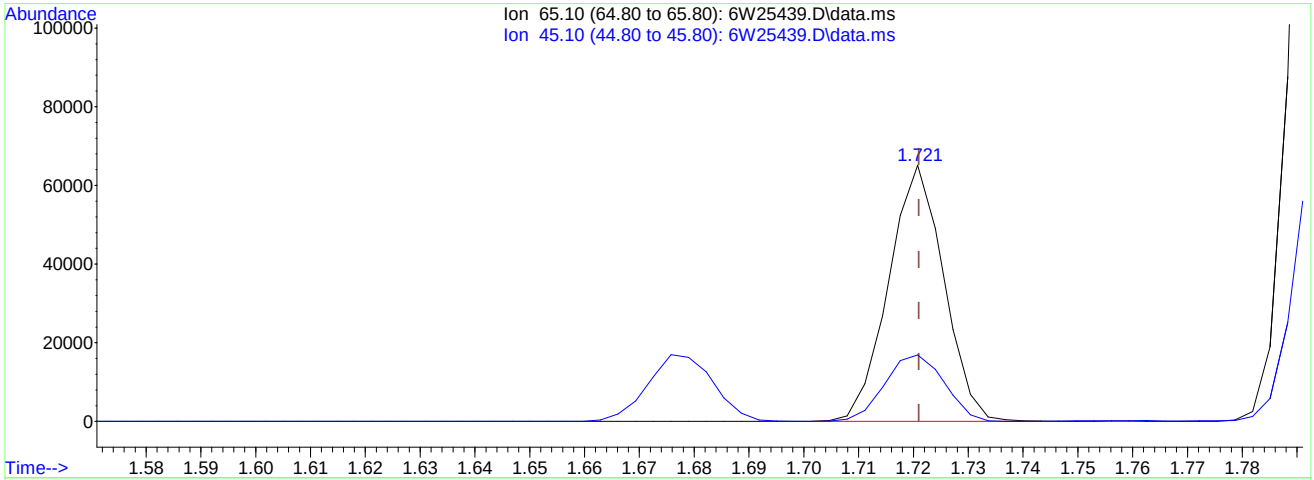
response 0

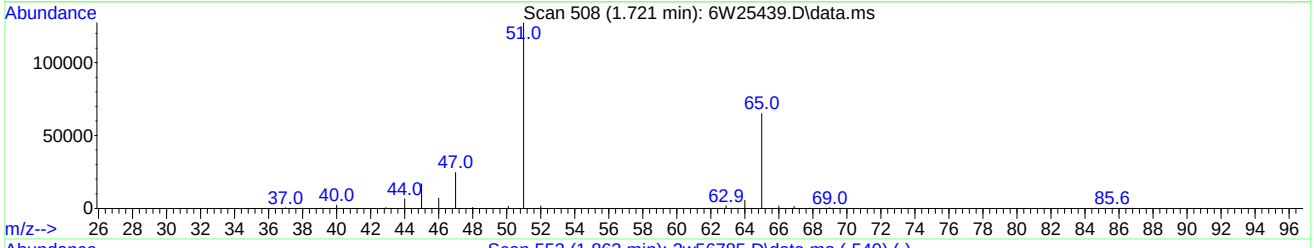
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 0.00 |
| 45.10 | 22.90 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

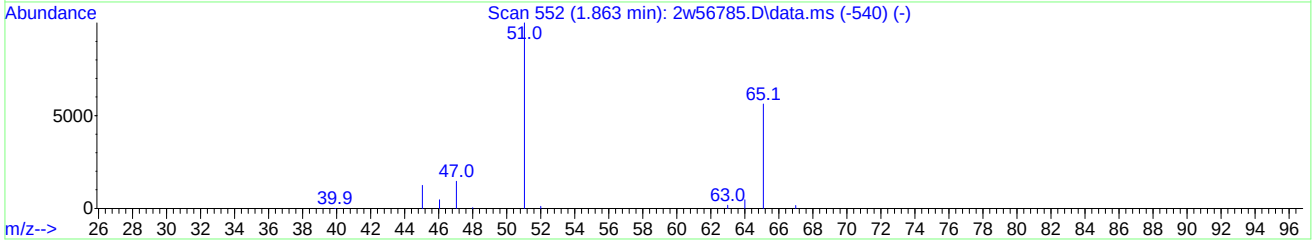
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25439.D
Acq On : 11 Aug 2022 8:20 am
Operator : thomash
Sample : cc1077-10
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 08:48:34 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration




TIC: 6W25439.D\data.ms

(3) FREON 152A (T)

1.721min (-0.000) 8.64PPBV m

response 45667

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 22.90 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/20/22 12:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 09:48:06 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

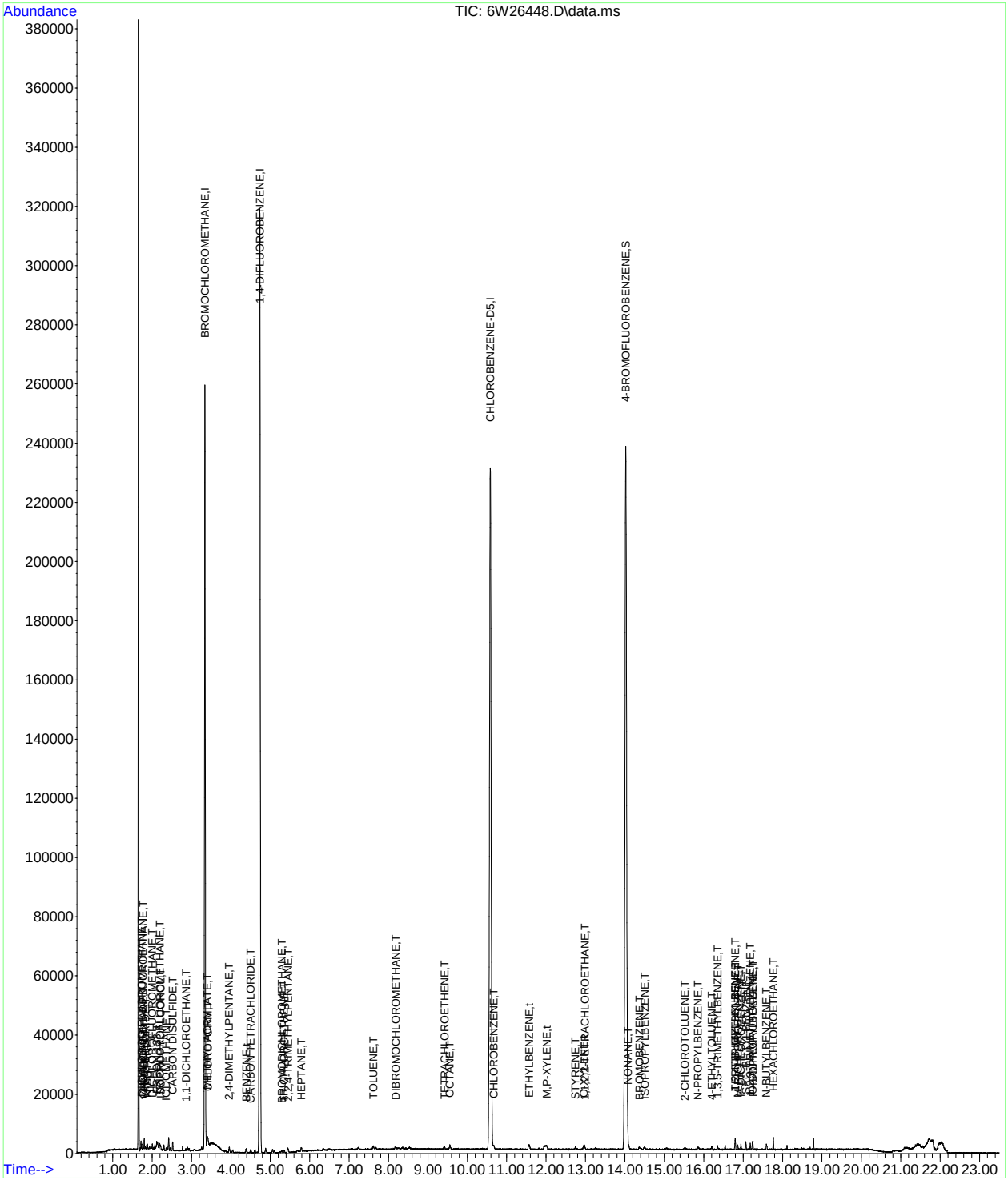
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.341 | 128 | 49562 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.733 | 114 | 238408 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 206644 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.022 | 95 | 141592 | 9.68 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 6) DICHLORODIFLUOROMETHANE | 1.734 | 85 | 578m | 0.04 | PPBV | | |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.769 | 65 | 563 | 0.04 | PPBV | # | 2 |
| 9) FREON 114 | 1.801 | 85 | 673 | 0.04 | PPBV | # | 24 |
| 10) CHLOROMETHANE | 1.775 | 52 | 113m | 0.06 | PPBV | | |
| 11) VINYL CHLORIDE | 1.830 | 62 | 269m | 0.04 | PPBV | | |
| 13) N-BUTANE | 1.878 | 43 | 745 | 0.07 | PPBV | # | 65 |
| 16) DICHLOROFLUOROMETHANE | 2.004 | 67 | 557 | 0.04 | PPBV | # | 49 |
| 19) FREON 123 | 2.116 | 83 | 508 | 0.04 | PPBV | # | 83 |
| 21) TRICHLOROFLUOROMETHANE | 2.193 | 101 | 689 | 0.05 | PPBV | # | 25 |
| 22) ISOPROPYL ALCOHOL | 2.216 | 45 | 815 | 0.06 | PPBV | # | 63 |
| 25) IODOMETHANE | 2.357 | 142 | 562 | 0.04 | PPBV | # | 38 |
| 27) CARBON DISULFIDE | 2.521 | 76 | 771 | 0.04 | PPBV | # | 73 |
| 40) 1,1-DICHLOROETHANE | 2.856 | 63 | 522 | 0.04 | PPBV | # | 50 |
| 45) METHYL ACRYLATE | 3.402 | 55 | 500 | 0.03 | PPBV | # | 65 |
| 46) CHLOROFORM | 3.418 | 83 | 561 | 0.04 | PPBV | # | 18 |
| 47) 2,4-DIMETHYLPENTANE | 3.955 | 57 | 563 | 0.04 | PPBV | # | 31 |
| 49) CARBON TETRACHLORIDE | 4.499 | 117 | 548 | 0.04 | PPBV | # | 86 |
| 51) BENZENE | 4.389 | 78 | 986 | 0.05 | PPBV | # | 66 |
| 55) TRICHLOROETHENE | 5.344 | 95 | 322m | 0.03 | PPBV | | |
| 59) BROMODICHLOROMETHANE | 5.290 | 83 | 595 | 0.04 | PPBV | # | 18 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.450 | 57 | 1425 | 0.04 | PPBV | # | 48 |
| 62) HEPTANE | 5.785 | 43 | 669 | 0.04 | PPBV | # | 15 |
| 66) TOLUENE | 7.611 | 91 | 1324 | 0.05 | PPBV | | 94 |
| 72) TETRACHLOROETHENE | 9.421 | 164 | 234m | 0.03 | PPBV | | |
| 73) DIBROMOCHLOROMETHANE | 8.180 | 129 | 522 | 0.03 | PPBV | # | 21 |
| 75) OCTANE | 9.556 | 43 | 883 | 0.04 | PPBV | # | 23 |
| 78) CHLOROBENZENE | 10.666 | 112 | 697 | 0.03 | PPBV | # | 30 |
| 79) ETHYLBENZENE | 11.572 | 91 | 2155 | 0.07 | PPBV | | 95 |
| 80) M,P-XYLENE | 12.016 | 91 | 2929m | 0.12 | PPBV | | |
| 81) O-XYLENE | 12.958 | 91 | 1490 | 0.06 | PPBV | # | 82 |
| 82) STYRENE | 12.740 | 104 | 652 | 0.03 | PPBV | # | 33 |
| 83) NONANE | 14.077 | 43 | 931 | 0.04 | PPBV | # | 45 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.984 | 83 | 634 | 0.03 | PPBV | # | 25 |
| 88) ISOPROPYLBENZENE | 14.502 | 105 | 1396 | 0.04 | PPBV | # | 53 |
| 89) BROMOBENZENE | 14.370 | 77 | 607 | 0.03 | PPBV | # | 17 |
| 90) 2-CHLOROTOLUENE | 15.521 | 91 | 800 | 0.03 | PPBV | # | 47 |
| 91) N-PROPYLBENZENE | 15.852 | 91 | 1361 | 0.03 | PPBV | # | 56 |
| 92) 4-ETHYLTOLUENE | 16.199 | 105 | 937 | 0.03 | PPBV | # | 49 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.350 | 105 | 883 | 0.03 | PPBV | # | 34 |
| 95) TERT-BUTYLBENZENE | 16.797 | 119 | 984 | 0.03 | PPBV | # | 85 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.797 | 105 | 846 | 0.03 | PPBV | # | 72 |
| 98) M-DICHLOROBENZENE | 16.865 | 146 | 574 | 0.03 | PPBV | # | 25 |
| 99) P-DICHLOROBENZENE | 16.942 | 146 | 609 | 0.03 | PPBV | # | 26 |
| 100) O-DICHLOROBENZENE | 17.238 | 146 | 606 | 0.03 | PPBV | # | 25 |
| 101) SEC-BUTYLBENZENE | 17.071 | 105 | 1170 | 0.03 | PPBV | # | 60 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.180 | 105 | 809 | 0.03 | PPBV | # | 39 |
| 103) P-ISOPROPYLTOLUENE | 17.251 | 119 | 921 | 0.02 | PPBV | # | 53 |
| 104) N-BUTYLBENZENE | 17.585 | 91 | 731 | 0.02 | PPBV | # | 32 |
| 105) HEXACHLOROETHANE | 17.765 | 117 | 506 | 0.04 | PPBV | # | 4 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 09:48:06 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



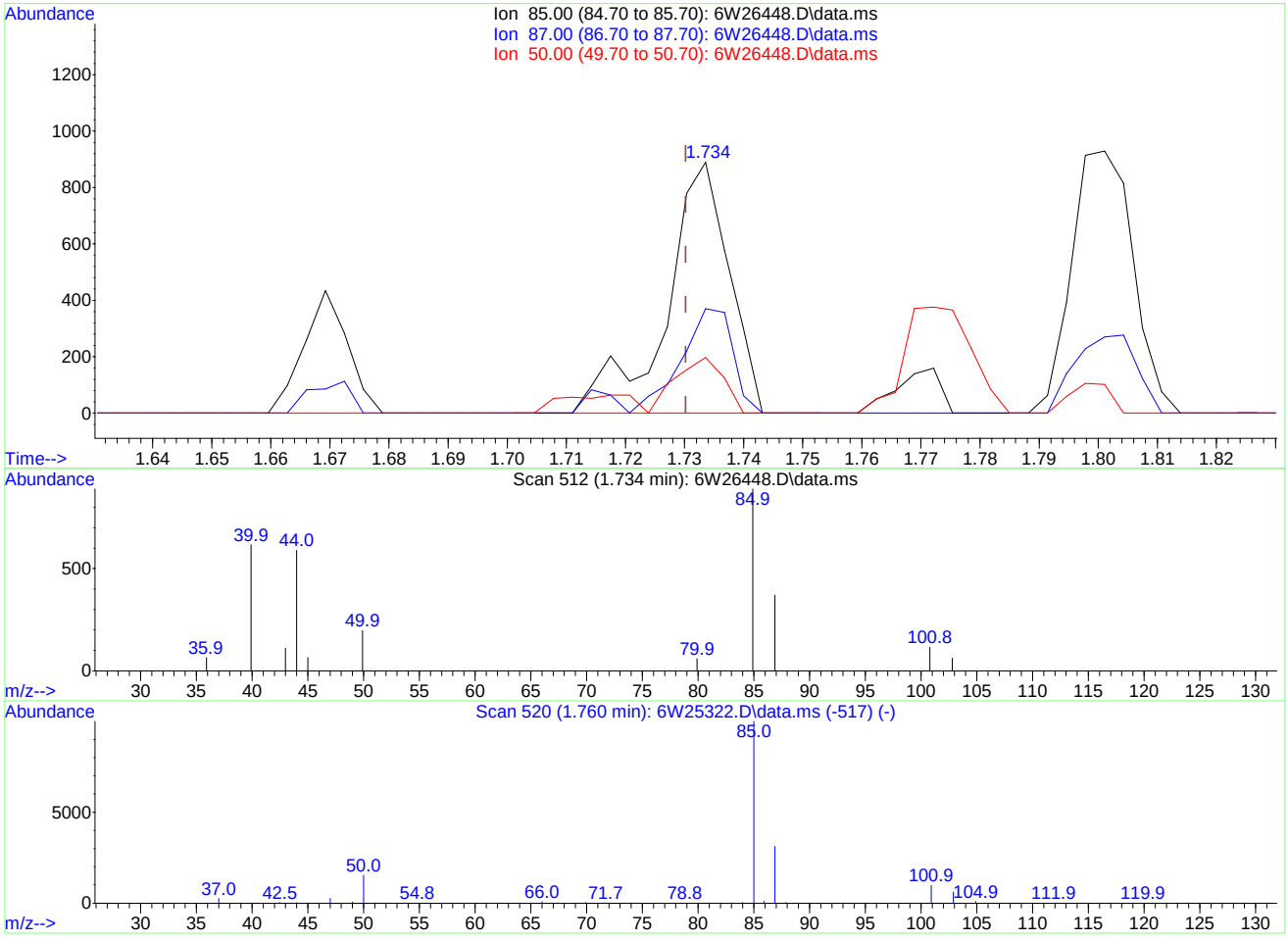
**Sample Number:** V6W1125-IC1125 **Method:** TO-15
**Lab FileID:** 6W26448.D **Analyst approved:** 10/20/22 10:04 Thomas Hilbig
**Injection Time:** 10/19/22 19:10 **Supervisor approved:** 10/20/22 12:15 Kanya Veerawat

| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.73 | Overlapping peak |
| Chloromethane | 74-87-3 | | 1.78 | Missed peak |
| Vinyl chloride | 75-01-4 | | 1.83 | Missed peak |
| Trichloroethylene | 79-01-6 | | 5.34 | Missed peak |
| Tetrachloroethylene | 127-18-4 | | 9.42 | Missed peak |
| m,p-Xylene | | | 12.02 | Split peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26448.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.734min (+0.003) 0.04PPBV

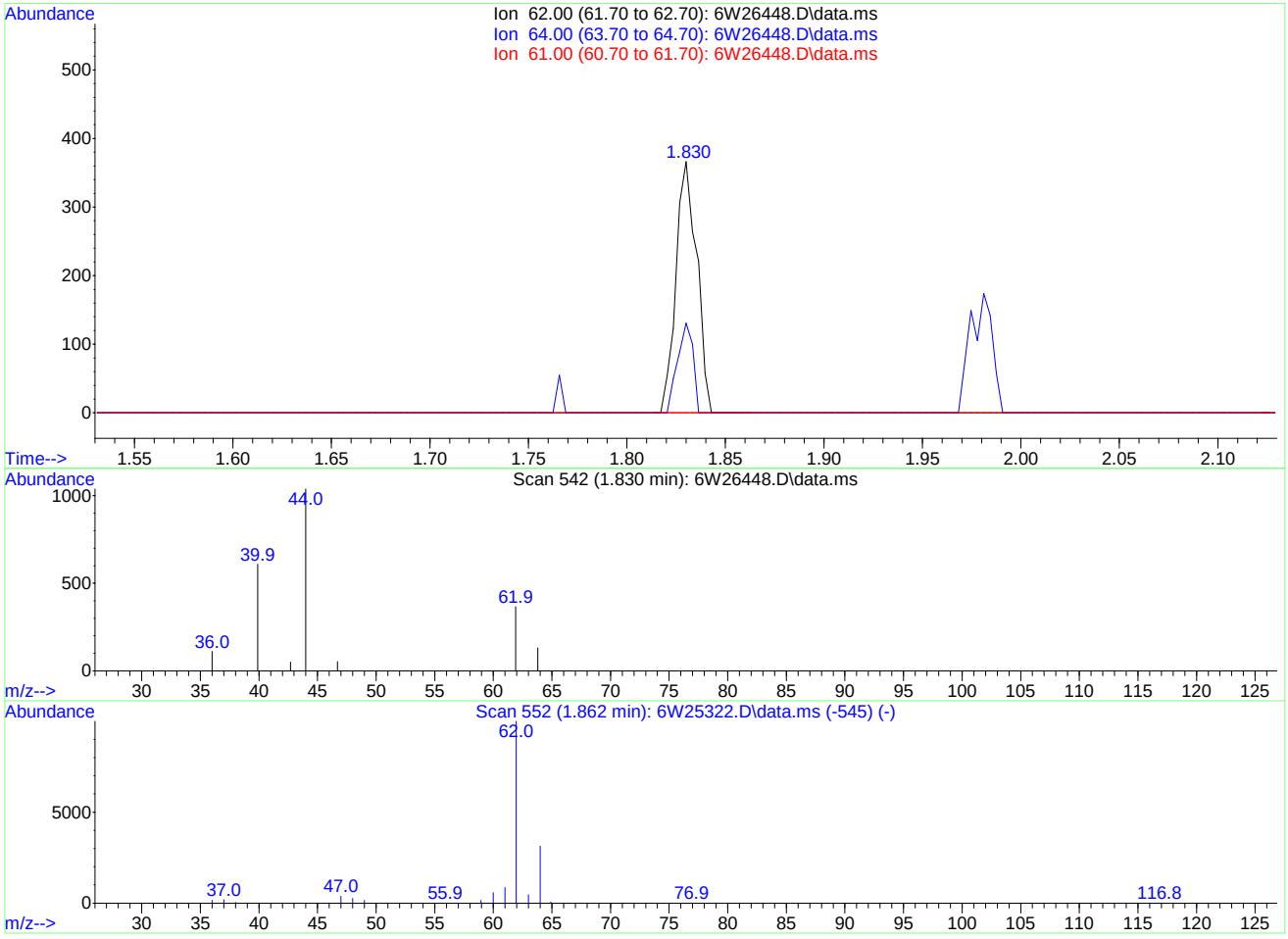
response 657

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 0.00# |
| 50.00 | 9.30 | 0.00# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26448.D\data.ms

(11) VINYL CHLORIDE (T)

1.830min (+0.000) 0.04PPBV m

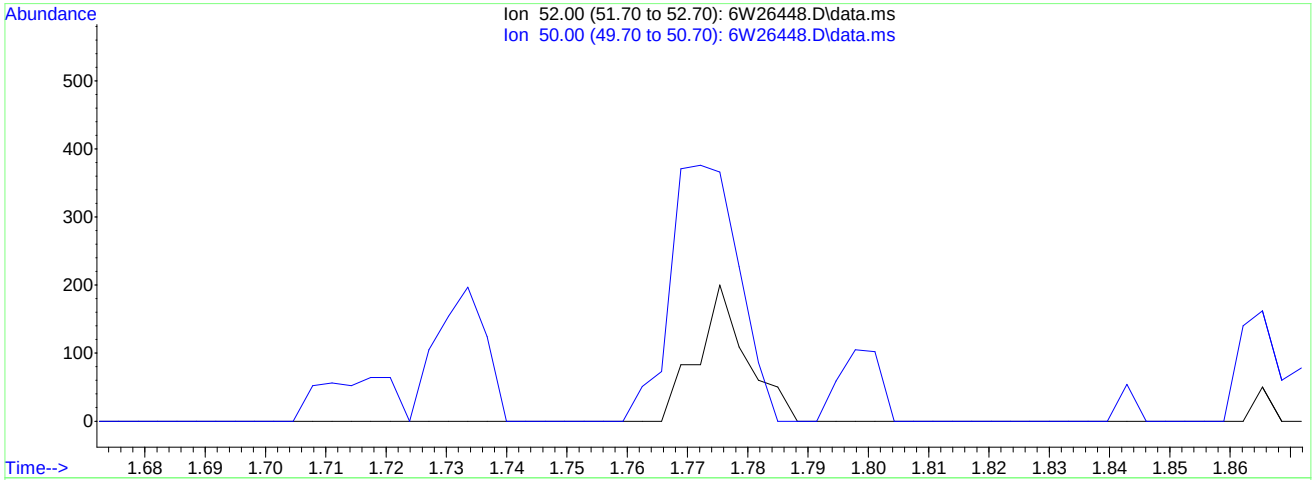
response 269

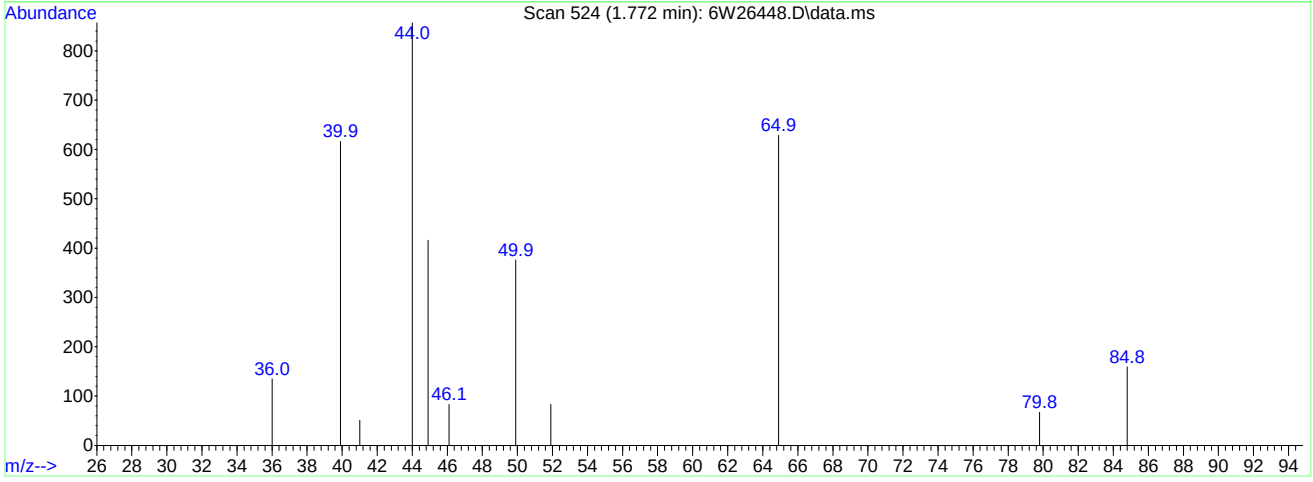
| Ion | Exp% | Act% |
|---|---|---|
| 62.00 | 100 | 100 |
| 64.00 | 32.10 | 0.00# |
| 61.00 | 8.40 | 0.00# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26448.D\data.ms

(10) CHLOROMETHANE (T)

1.772min (-1.772) 0.00PPBV

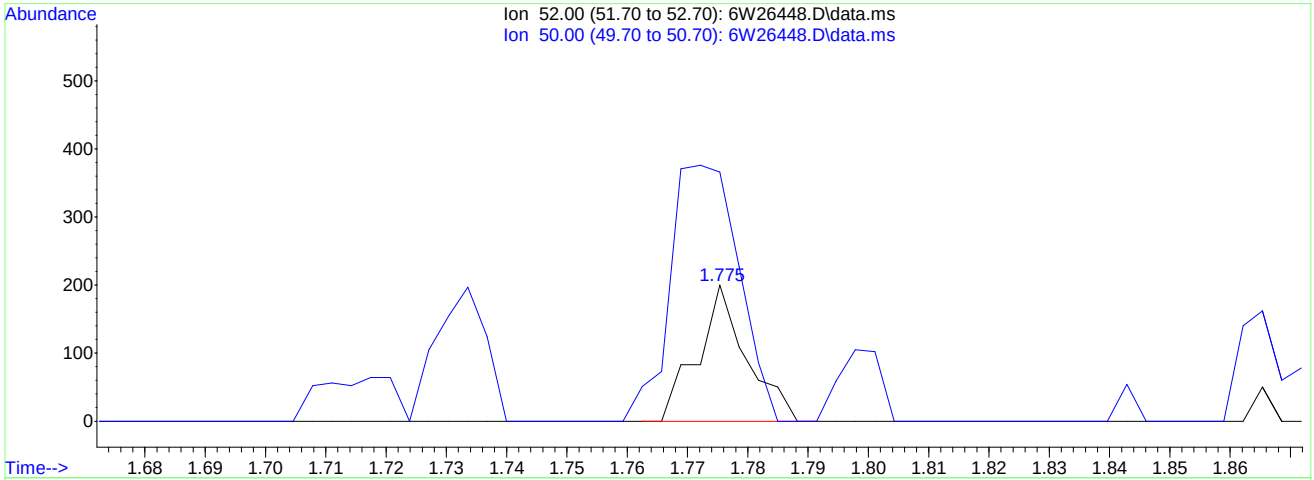
response 0

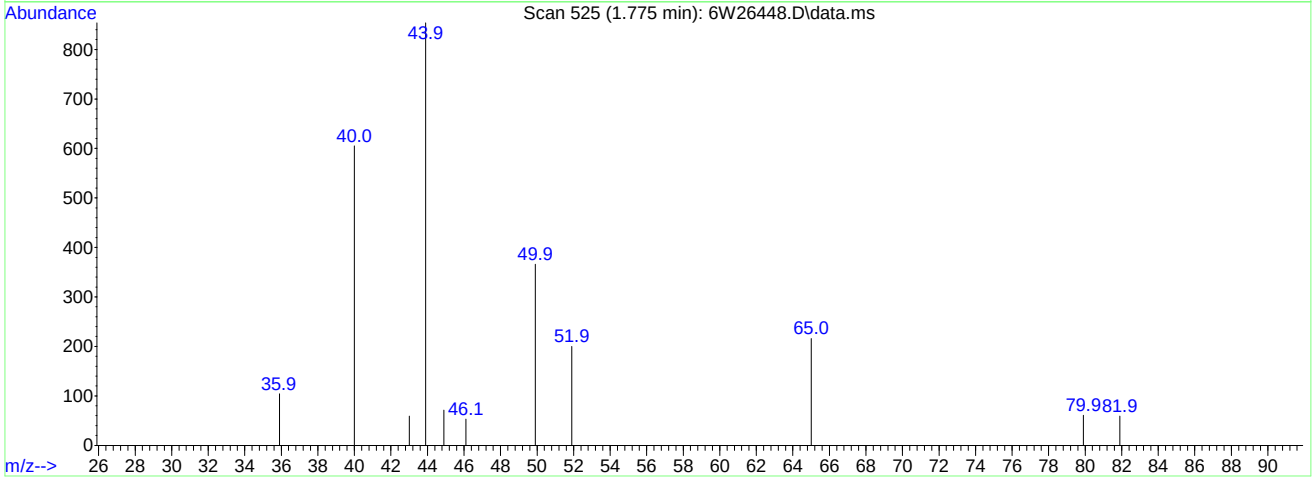
| Ion | Exp% | Act% |
|---|---|---|
| 52.00 | 100 | 0.00 |
| 50.00 | 310.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26448.D\data.ms

(10) CHLOROMETHANE (T)

1.775min (+0.003) 0.06PPBV m

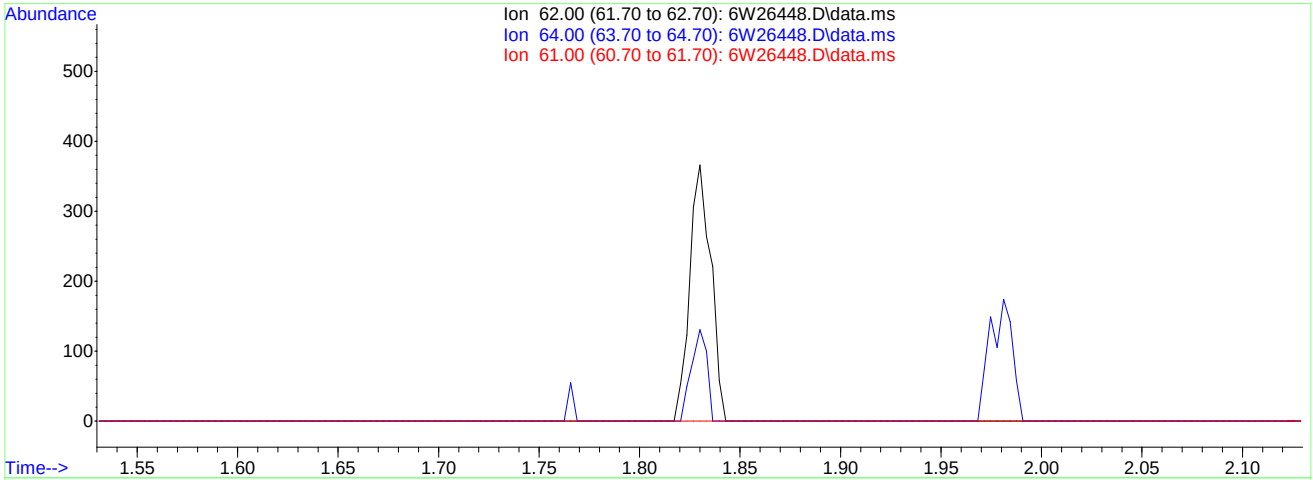
response 113

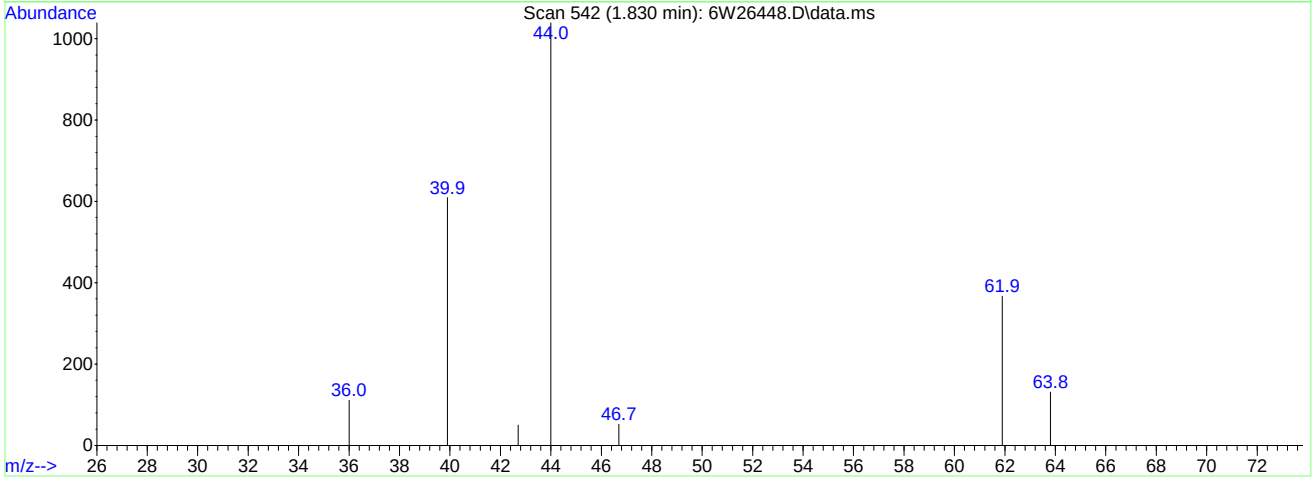
| Ion | Exp% | Act% |
|---|---|---|
| 52.00 | 100 | 100 |
| 50.00 | 310.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26448.D\data.ms

(11) VINYL CHLORIDE (T)

1.830min (-1.830) 0.00PPBV

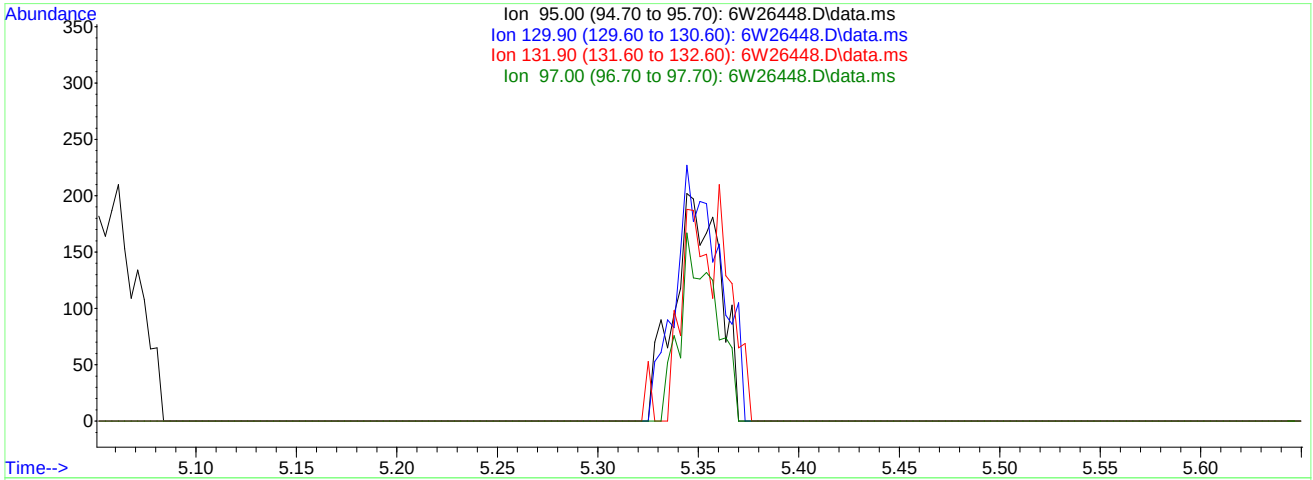
response 0

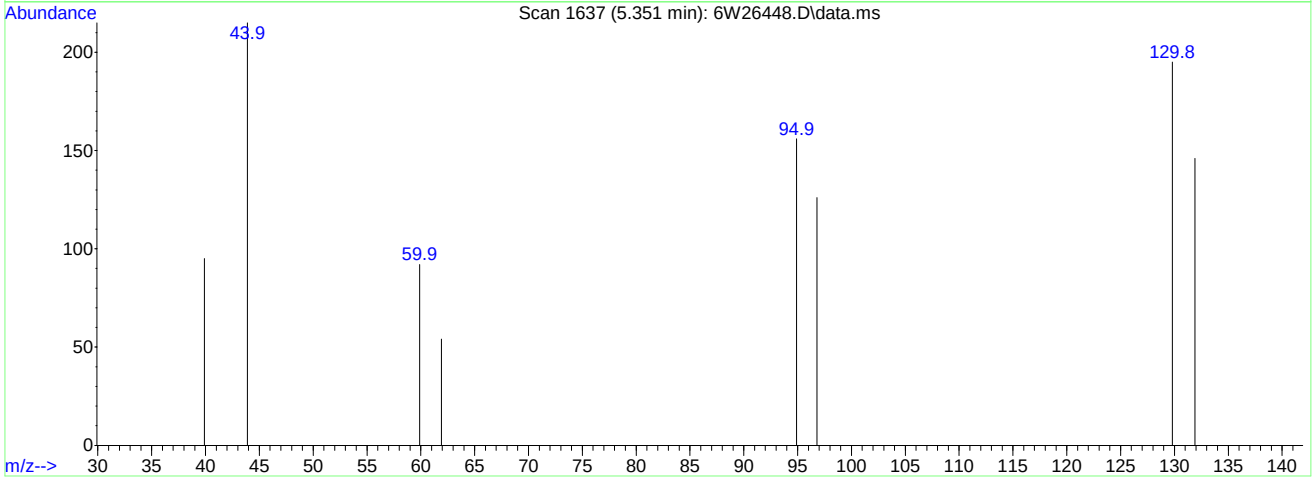
| Ion | Exp% | Act% |
|---|---|---|
| 62.00 | 100 | 0.00 |
| 64.00 | 32.10 | 0.00# |
| 61.00 | 8.40 | 0.00# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26448.D\data.ms

(55) TRICHLOROETHENE (T)

5.351min (-5.351) 0.00PPBV

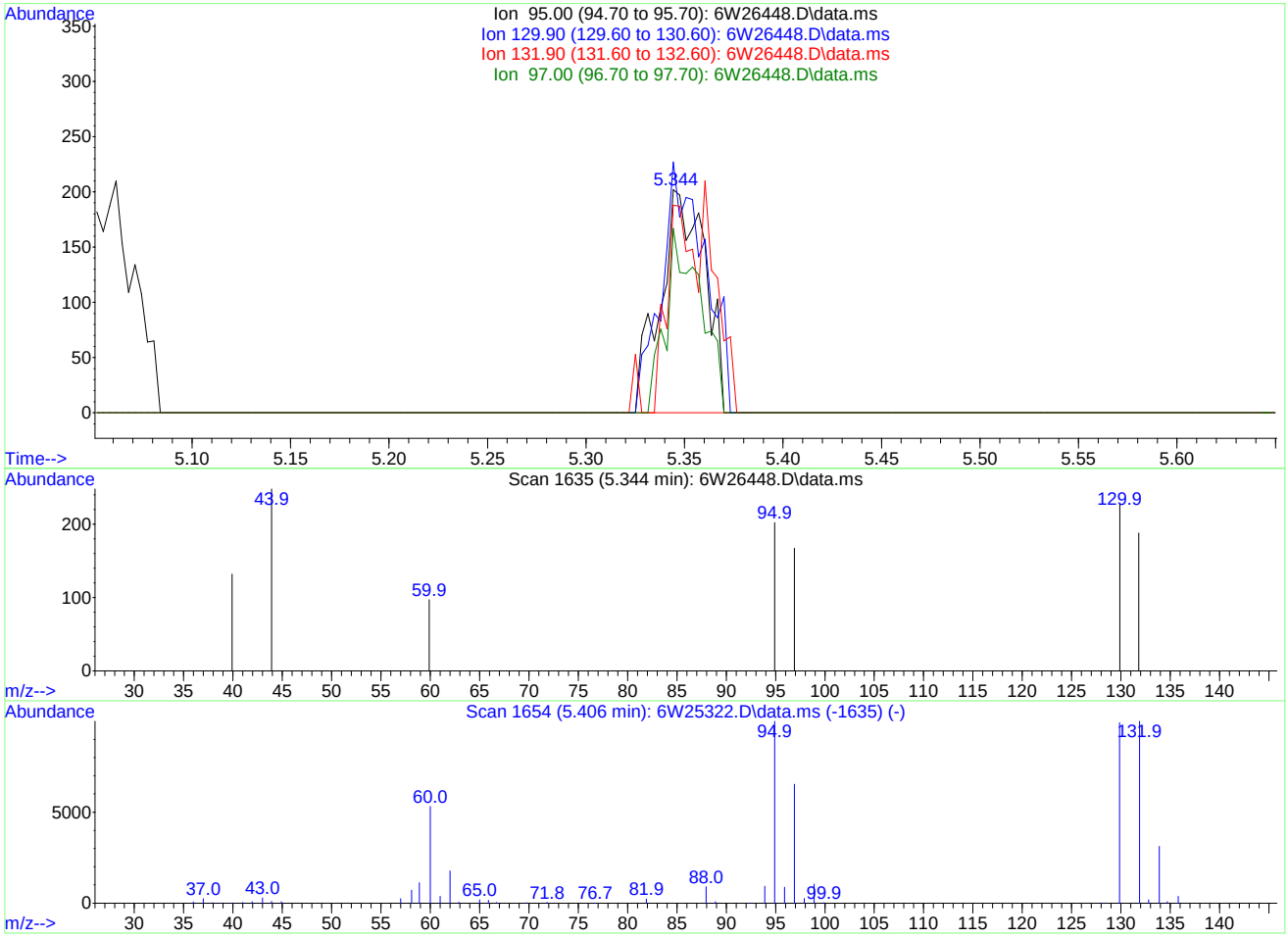
response 0

| Ion | Exp% | Act% |
|---|---|---|
| 95.00 | 100 | 0.00 |
| 129.90 | 104.00 | 0.00# |
| 131.90 | 99.70 | 0.00# |
| 97.00 | 64.10 | 0.00# |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26448.D\data.ms

(55) TRICHLOROETHENE (T)

5.344min (-0.006) 0.03PPBV m

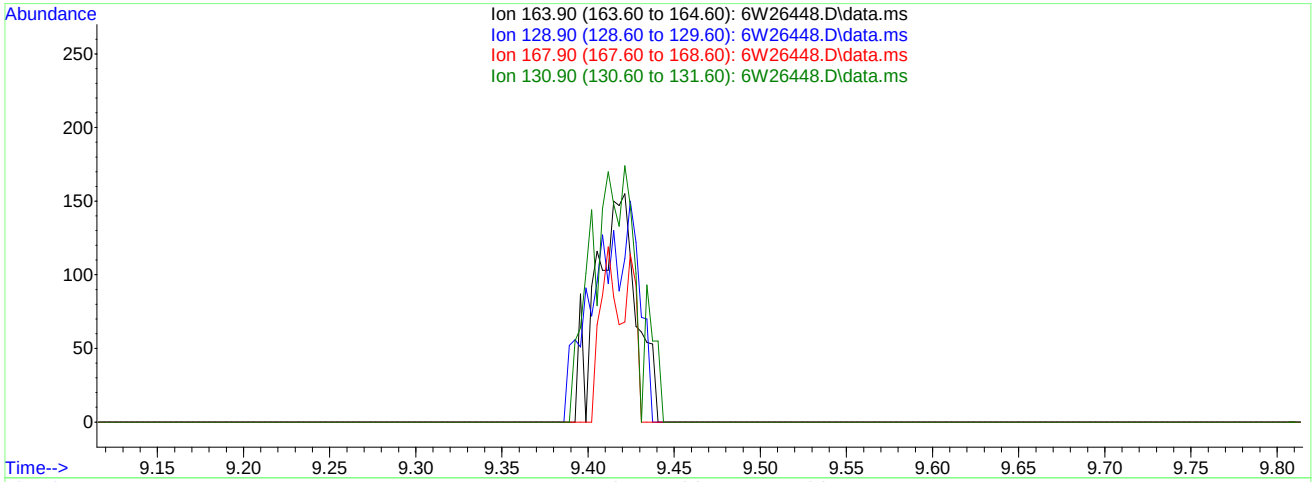
response 322

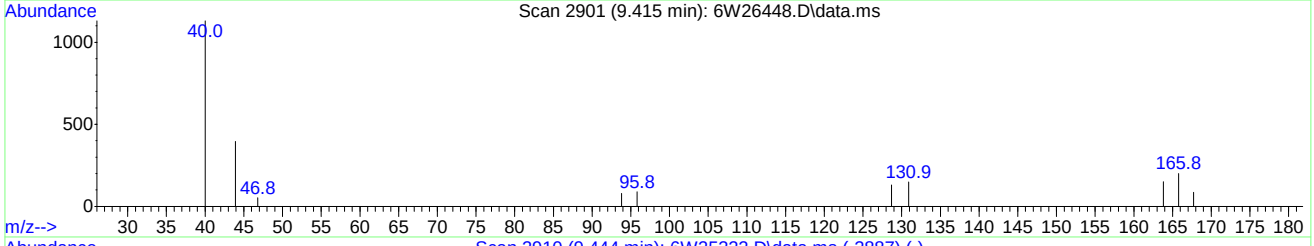
| Ion | Exp% | Act% |
|---|---|---|
| 95.00 | 100 | 100 |
| 129.90 | 104.00 | 0.00# |
| 131.90 | 99.70 | 0.00# |
| 97.00 | 64.10 | 0.00# |

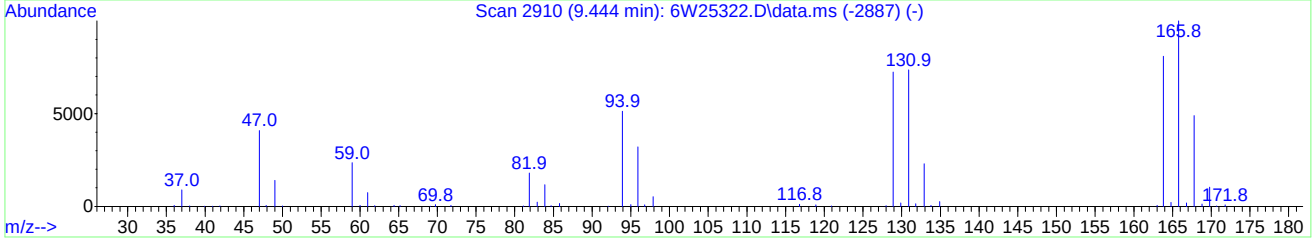
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26448.D\data.ms

(72) TETRACHLOROETHENE (T)

9.415min (-9.415) 0.00PPBV

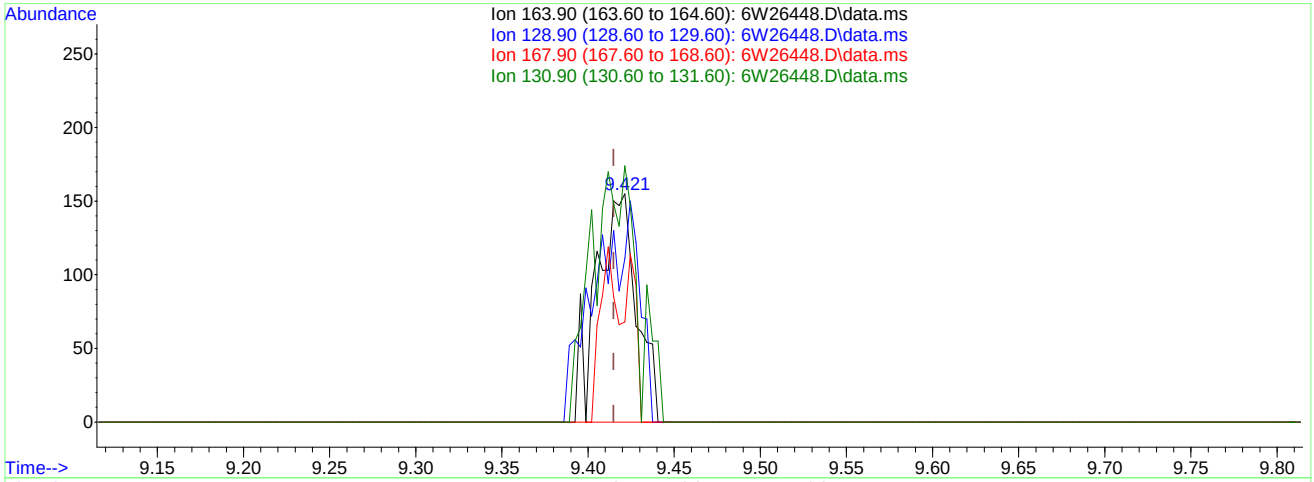
response 0

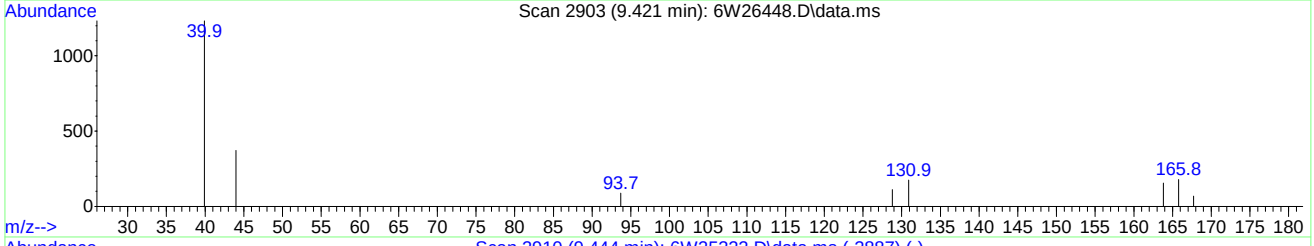
| Ion | Exp% | Act% |
|---|---|---|
| 163.90 | 100 | 0.00 |
| 128.90 | 90.00 | 0.00# |
| 167.90 | 60.70 | 0.00# |
| 130.90 | 86.30 | 0.00# |

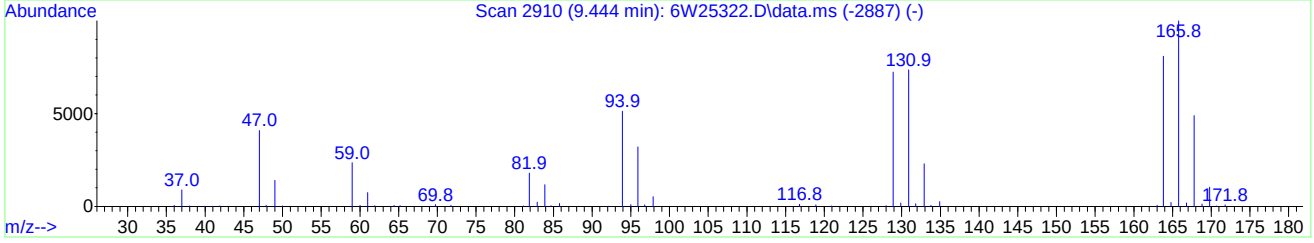
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26448.D\data.ms

(72) TETRACHLOROETHENE (T)

9.421min (+0.007) 0.03PPBV m

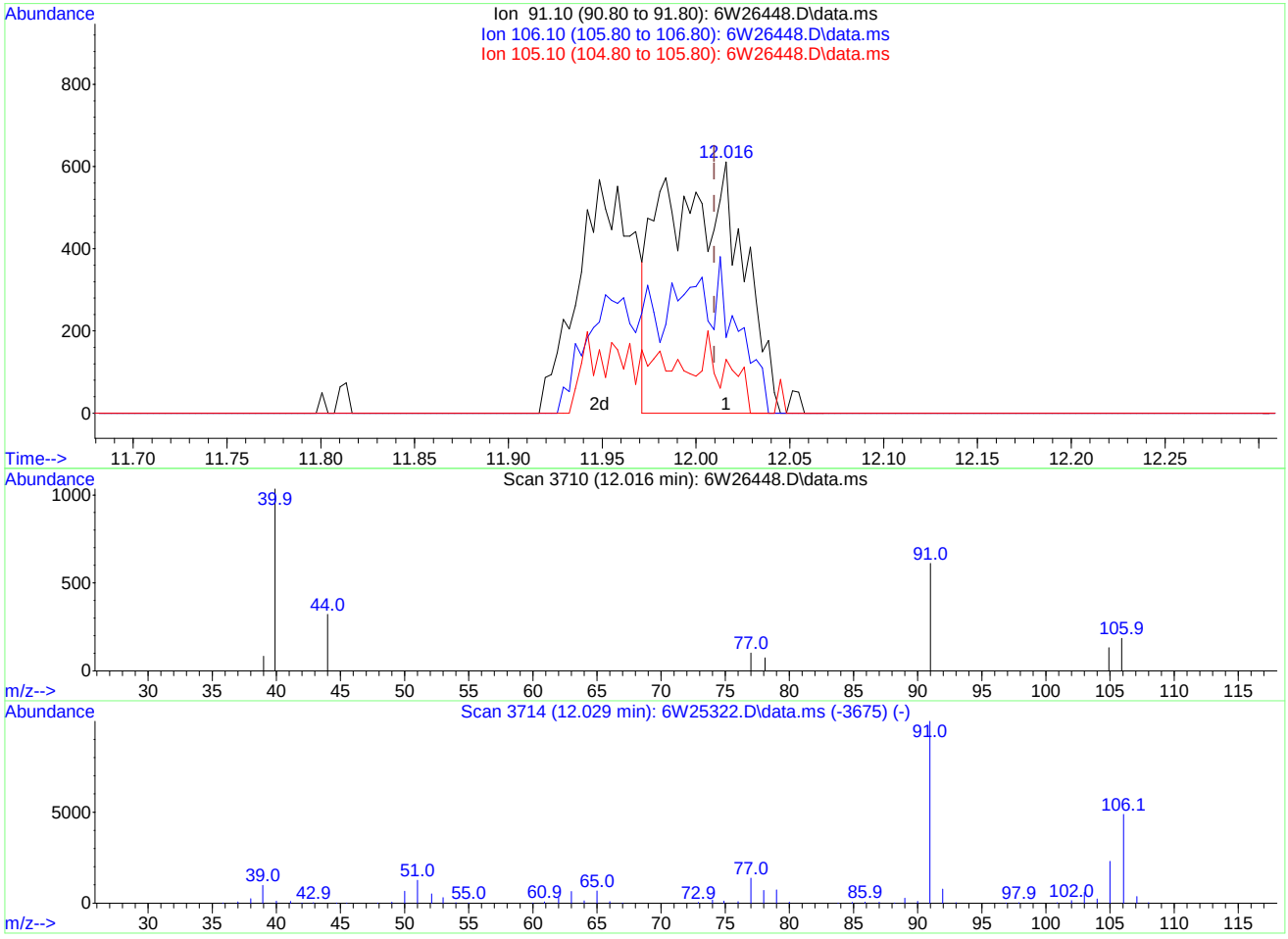
response 234

| Ion | Exp% | Act% |
|---|---|---|
| 163.90 | 100 | 100 |
| 128.90 | 90.00 | 0.00# |
| 167.90 | 60.70 | 0.00# |
| 130.90 | 86.30 | 0.00# |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26448.D\data.ms

(80) M,P-XYLENE (t)

12.016min (+0.007) 0.07PPBV

response 1786

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 41.27 |
| 105.10 | 23.60 | 0.00# |
| 0.00 | 0.00 | 0.00 |





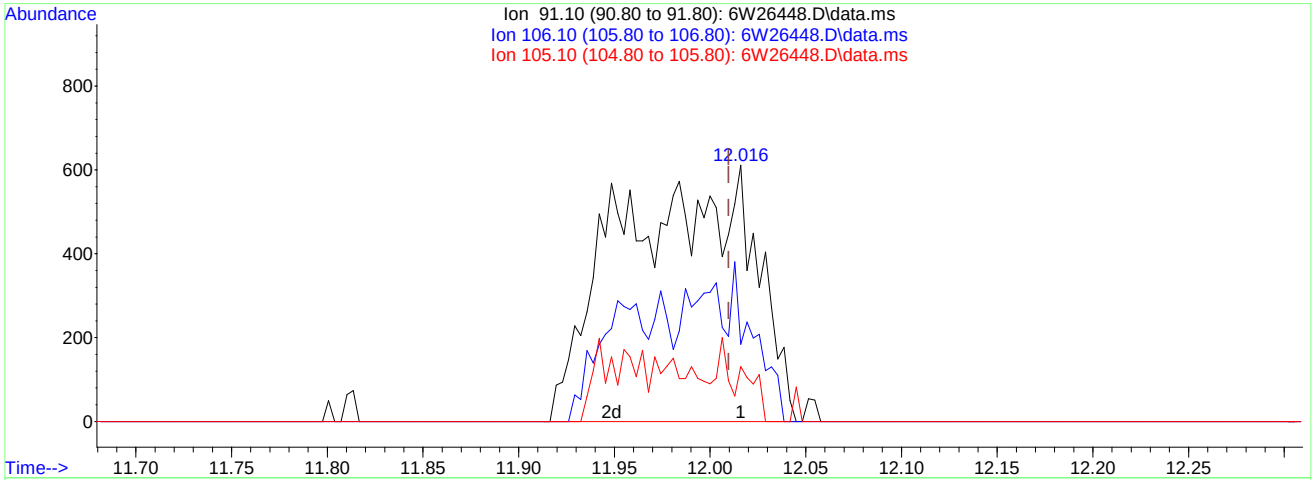


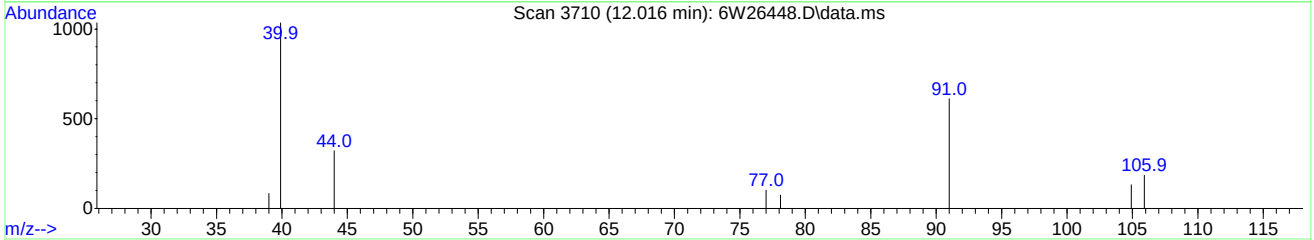
6W26448.D edits: M,P-XYLENE

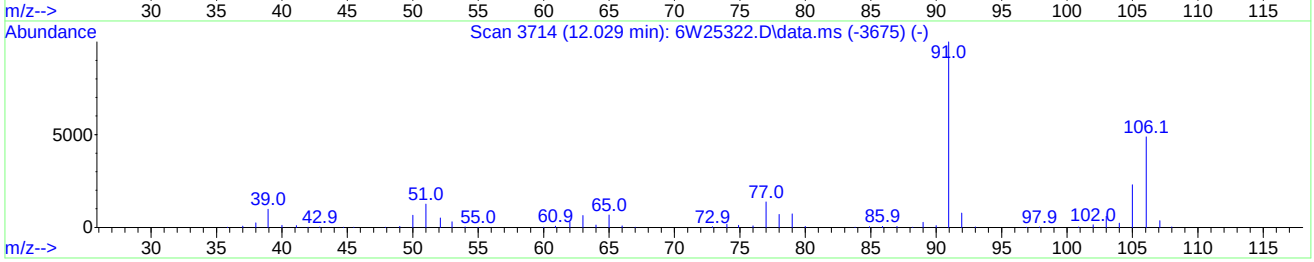
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26448.D\data.ms

(80) M,P-XYLENE (t)

12.016min (+0.007) 0.12PPBV m

response 2929

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 25.16# |
| 105.10 | 23.60 | 0.00# |
| 0.00 | 0.00 | 0.00 |







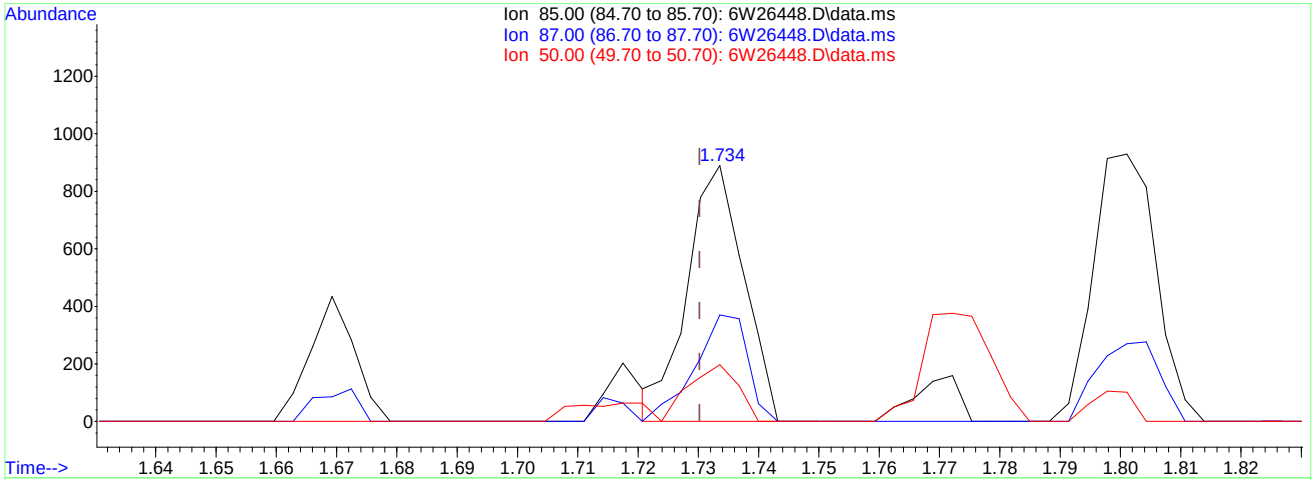


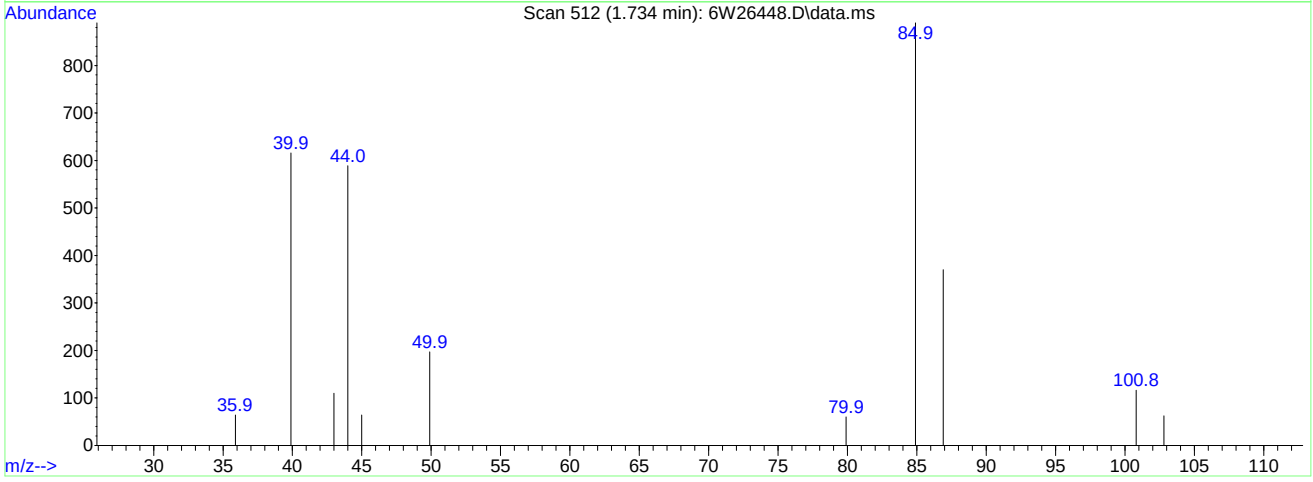
7.7.23.12

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 09:48:06 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26448.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.734min (+0.003) 0.04PPBV m

response 578

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 0.00# |
| 50.00 | 9.30 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/20/22 12:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 09:45:19 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.341 | 128 | 48898 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.733 | 114 | 236998 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 208233 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.026 | 95 | 142510 | 9.67 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 5) CHLOROTRIFLUOROETHENE | 1.717 | 116 | 964 | 0.11 | PPBV | # | 42 |
| 6) DICHLORODIFLUOROMETHANE | 1.733 | 85 | 1546m | 0.10 | PPBV | | |
| 7) PROPYLENE | 1.714 | 41 | 564 | 0.09 | PPBV | # | 44 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.769 | 65 | 1371 | 0.10 | PPBV | # | 46 |
| 9) FREON 114 | 1.801 | 85 | 1620 | 0.11 | PPBV | # | 75 |
| 10) CHLOROMETHANE | 1.775 | 52 | 200m | 0.10 | PPBV | | |
| 11) VINYL CHLORIDE | 1.830 | 62 | 714 | 0.12 | PPBV | # | 50 |
| 12) 1,3-BUTADIENE | 1.868 | 54 | 533 | 0.10 | PPBV | # | 27 |
| 13) N-BUTANE | 1.881 | 43 | 1299 | 0.12 | PPBV | # | 65 |
| 14) BROMOMETHANE | 1.936 | 94 | 505 | 0.10 | PPBV | # | 11 |
| 15) CHLOROETHANE | 1.978 | 64 | 276m | 0.09 | PPBV | | |
| 16) DICHLOROFLUOROMETHANE | 2.004 | 67 | 1283 | 0.10 | PPBV | # | 49 |
| 17) ACETONITRILE | 2.068 | 41 | 834 | 0.13 | PPBV | # | 9 |
| 19) FREON 123 | 2.116 | 83 | 1302 | 0.11 | PPBV | # | 92 |
| 20) FREON 123A | 2.135 | 117 | 742 | 0.10 | PPBV | | 81 |
| 21) TRICHLOROFLUOROMETHANE | 2.193 | 101 | 1509 | 0.10 | PPBV | # | 96 |
| 22) ISOPROPYL ALCOHOL | 2.216 | 45 | 1750 | 0.13 | PPBV | # | 79 |
| 24) PENTANE | 2.299 | 42 | 967 | 0.13 | PPBV | # | 78 |
| 25) IODOMETHANE | 2.357 | 142 | 1546 | 0.11 | PPBV | | 92 |
| 26) 1,1-DICHLOROETHYLENE | 2.386 | 96 | 619 | 0.11 | PPBV | # | 56 |
| 27) CARBON DISULFIDE | 2.524 | 76 | 1878 | 0.10 | PPBV | # | 50 |
| 29) BROMOETHENE | 2.077 | 106 | 547 | 0.11 | PPBV | # | 86 |
| 30) ACRYLONITRILE | 2.274 | 52 | 541 | 0.11 | PPBV | # | 76 |
| 33) FREON 113 | 2.521 | 151 | 989 | 0.09 | PPBV | # | 84 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 695 | 0.11 | PPBV | # | 61 |
| 35) TERTIARY BUTYL ALCOHOL | 2.409 | 59 | 1337 | 0.11 | PPBV | # | 76 |
| 36) METHYL TERTIARY BUTYL ... | 2.894 | 73 | 1479 | 0.09 | PPBV | # | 88 |
| 38) HEXANE | 3.396 | 57 | 1241 | 0.10 | PPBV | # | 74 |
| 40) 1,1-DICHLOROETHANE | 2.859 | 63 | 1221 | 0.10 | PPBV | # | 50 |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 740 | 0.11 | PPBV | # | 55 |
| 45) METHYL ACRYLATE | 3.405 | 55 | 1651 | 0.11 | PPBV | # | 65 |
| 46) CHLOROFORM | 3.421 | 83 | 1467 | 0.10 | PPBV | # | 91 |
| 47) 2,4-DIMETHYLPENTANE | 3.955 | 57 | 1390 | 0.10 | PPBV | # | 71 |
| 48) 1,1,1-TRICHLOROETHANE | 4.052 | 97 | 1457 | 0.11 | PPBV | | 92 |
| 49) CARBON TETRACHLORIDE | 4.495 | 117 | 1424 | 0.09 | PPBV | # | 78 |
| 50) 1,2-DICHLOROETHANE | 3.868 | 62 | 1104 | 0.10 | PPBV | # | 49 |
| 51) BENZENE | 4.380 | 78 | 2208 | 0.11 | PPBV | # | 66 |
| 53) CYCLOHEXANE | 4.611 | 84 | 828 | 0.10 | PPBV | # | 58 |
| 55) TRICHLOROETHENE | 5.347 | 95 | 922 | 0.10 | PPBV | | 98 |
| 56) 1,2-DICHLOROPROPANE | 5.100 | 63 | 821 | 0.10 | PPBV | # | 41 |
| 57) DIBROMOMETHANE | 5.058 | 174 | 994 | 0.12 | PPBV | | 91 |
| 58) ETHYL ACRYLATE | 5.241 | 55 | 1502 | 0.08 | PPBV | # | 73 |
| 59) BROMODICHLOROMETHANE | 5.290 | 83 | 1646 | 0.11 | PPBV | | 97 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.454 | 57 | 3736 | 0.10 | PPBV | # | 92 |
| 62) HEPTANE | 5.791 | 43 | 1552 | 0.10 | PPBV | # | 72 |
| 63) METHYL METHACRYLATE | 5.688 | 69 | 704 | 0.09 | PPBV | # | 40 |
| 64) METHYL ISOBUTYL KETONE | 6.482 | 58 | 501 | 0.07 | PPBV | # | 47 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.351 | 75 | 1002 | 0.09 | PPBV | # | 37 |
| 66) TOLUENE | 7.617 | 91 | 2732 | 0.11 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.685 | 76 | 1233 | 0.10 | PPBV | # | 49 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.061 | 75 | 875 | 0.09 | PPBV | # | 42 |
| 69) 1,1,2-TRICHLOROETHANE | 7.228 | 83 | 677 | 0.09 | PPBV | | 89 |
| 71) ETHYL METHACRYLATE | 8.363 | 69 | 864 | 0.07 | PPBV | # | 56 |
| 72) TETRACHLOROETHENE | 9.415 | 164 | 911 | 0.10 | PPBV | # | 70 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 09:45:19 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

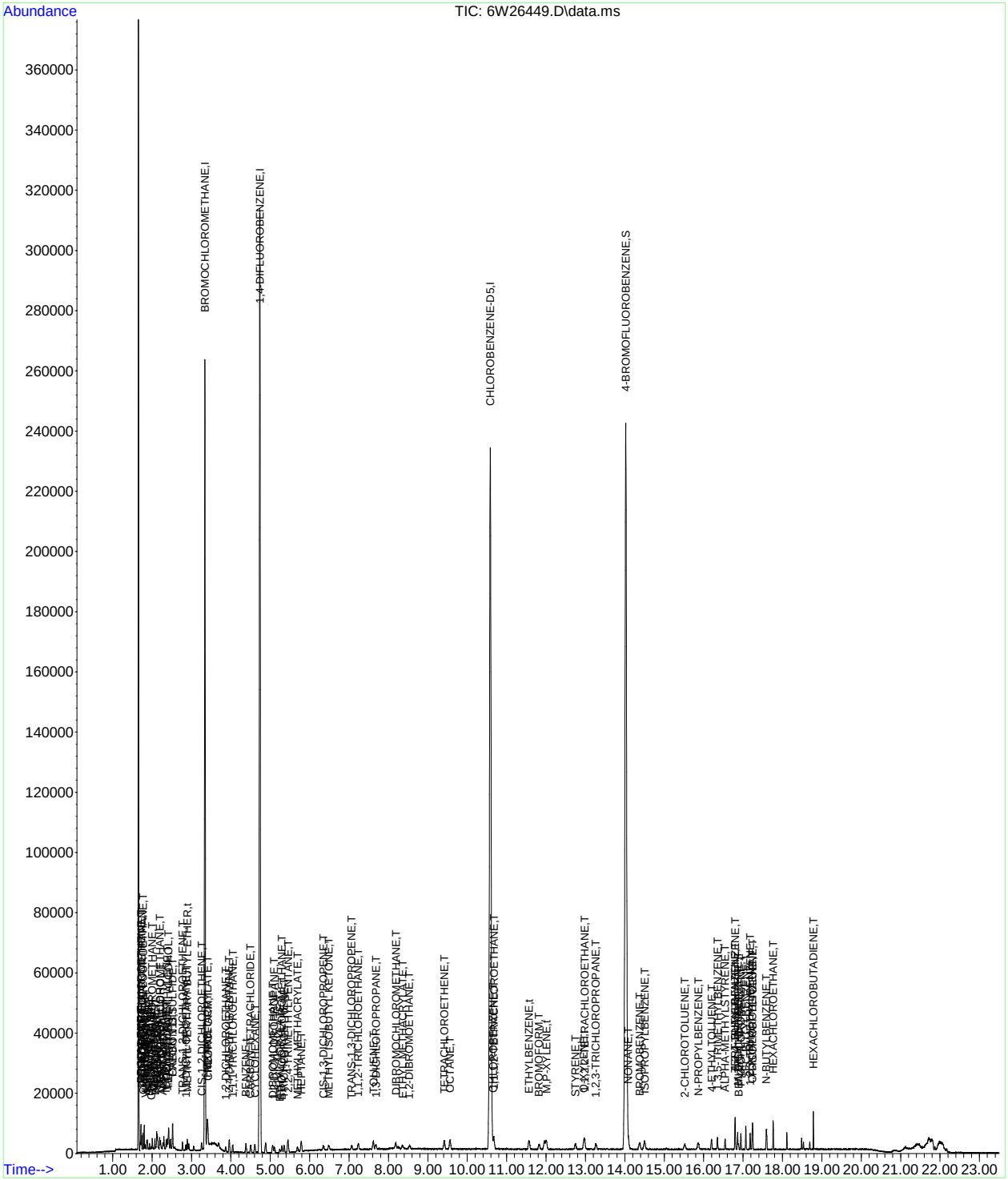
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 73) DIBROMOCHLOROMETHANE | 8.187 | 129 | 1596 | 0.10 | PPBV | # | 83 |
| 74) 1,2-DIBROMOETHANE | 8.524 | 107 | 1316 | 0.10 | PPBV | # | 98 |
| 75) OCTANE | 9.563 | 43 | 1915 | 0.09 | PPBV | # | 70 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.675 | 131 | 1043 | 0.09 | PPBV | # | 39 |
| 78) CHLOROBENZENE | 10.656 | 112 | 1970 | 0.10 | PPBV | | 98 |
| 79) ETHYLBENZENE | 11.563 | 91 | 3888 | 0.12 | PPBV | | 95 |
| 80) M,P-XYLENE | 12.013 | 91 | 5763m | 0.23 | PPBV | | |
| 81) O-XYLENE | 12.955 | 91 | 2774 | 0.11 | PPBV | # | 87 |
| 82) STYRENE | 12.746 | 104 | 1561 | 0.08 | PPBV | | 96 |
| 83) NONANE | 14.083 | 43 | 2448 | 0.11 | PPBV | # | 63 |
| 84) BROMOFORM | 11.820 | 173 | 1374 | 0.09 | PPBV | # | 83 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.981 | 83 | 1920 | 0.10 | PPBV | # | 94 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.254 | 75 | 1421 | 0.10 | PPBV | # | 41 |
| 88) ISOPROPYLBENZENE | 14.505 | 105 | 3516 | 0.09 | PPBV | # | 78 |
| 89) BROMOBENZENE | 14.376 | 77 | 1766 | 0.10 | PPBV | # | 87 |
| 90) 2-CHLOROTOLUENE | 15.521 | 91 | 2168 | 0.08 | PPBV | # | 94 |
| 91) N-PROPYLBENZENE | 15.865 | 91 | 3399 | 0.08 | PPBV | # | 94 |
| 92) 4-ETHYLTOLUENE | 16.202 | 105 | 2574 | 0.07 | PPBV | # | 97 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.350 | 105 | 2163 | 0.07 | PPBV | # | 95 |
| 94) ALPHA-METHYLSTYRENE | 16.546 | 118 | 964 | 0.06 | PPBV | | 95 |
| 95) TERT-BUTYLBENZENE | 16.794 | 119 | 2458 | 0.07 | PPBV | | 95 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.800 | 105 | 2237 | 0.07 | PPBV | | 98 |
| 97) BENZYL CHLORIDE | 16.887 | 91 | 945 | 0.05 | PPBV | # | 60 |
| 98) M-DICHLOROBENZENE | 16.865 | 146 | 1725 | 0.08 | PPBV | | 97 |
| 99) P-DICHLOROBENZENE | 16.945 | 146 | 1627 | 0.08 | PPBV | | 93 |
| 100) O-DICHLOROBENZENE | 17.231 | 146 | 1588 | 0.08 | PPBV | | 96 |
| 101) SEC-BUTYLBENZENE | 17.070 | 105 | 3423 | 0.07 | PPBV | | 96 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.180 | 105 | 2179 | 0.07 | PPBV | # | 93 |
| 103) P-ISOPROPYLTOLUENE | 17.244 | 119 | 2841 | 0.07 | PPBV | # | 94 |
| 104) N-BUTYLBENZENE | 17.585 | 91 | 2234 | 0.06 | PPBV | | 94 |
| 105) HEXACHLOROETHANE | 17.765 | 117 | 1259 | 0.10 | PPBV | # | 87 |
| 106) HEXACHLOROBUTADIENE | 18.787 | 225 | 1045 | 0.07 | PPBV | | 94 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 09:45:19 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



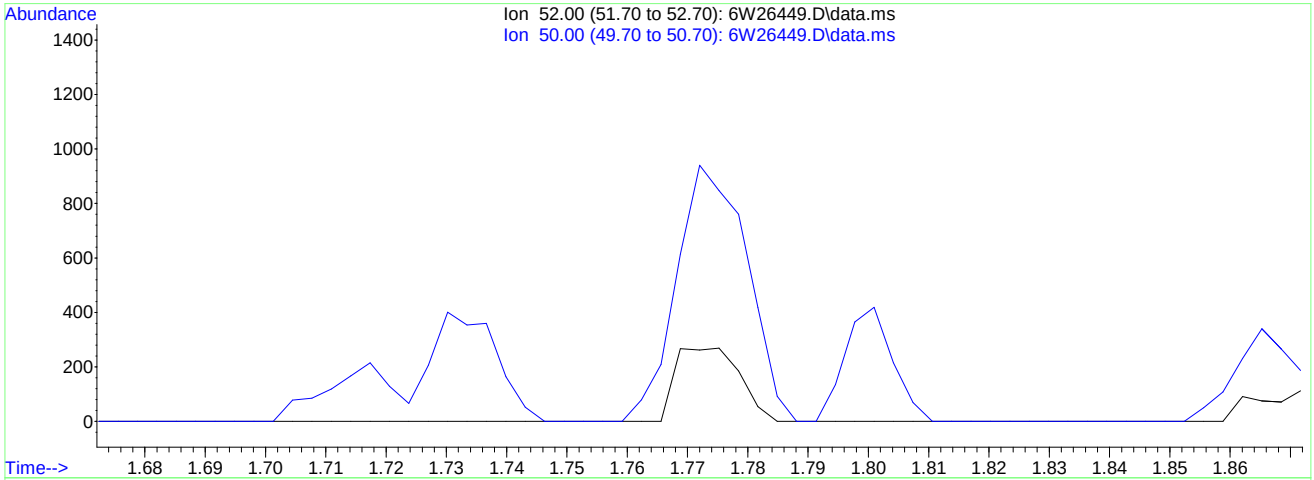
**Sample Number:** V6W1125-IC1125 **Method:** TO-15
**Lab FileID:** 6W26449.D **Analyst approved:** 10/20/22 10:04 Thomas Hilbig
**Injection Time:** 10/19/22 19:43 **Supervisor approved:** 10/20/22 12:15 Kanya Veerawat

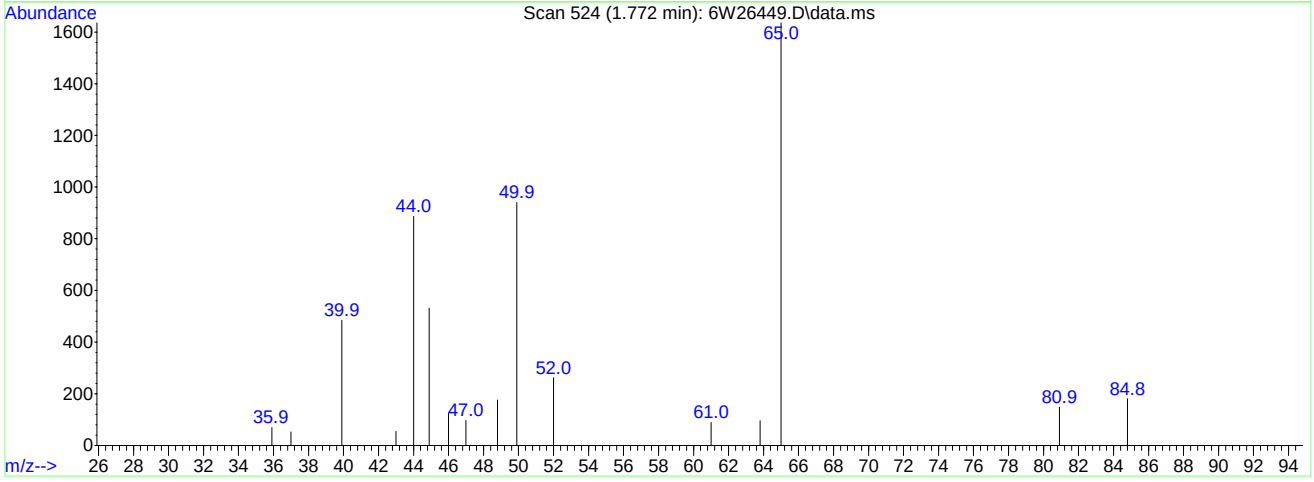
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.73 | Overlapping peak |
| Chloromethane | 74-87-3 | | 1.78 | Missed peak |
| Chloroethane | 75-00-3 | | 1.98 | Missed peak |
| m,p-Xylene | | | 12.01 | Split peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:06:39 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26449.D\data.ms

(10) CHLOROMETHANE (T)

1.772min (-1.772) 0.00PPBV

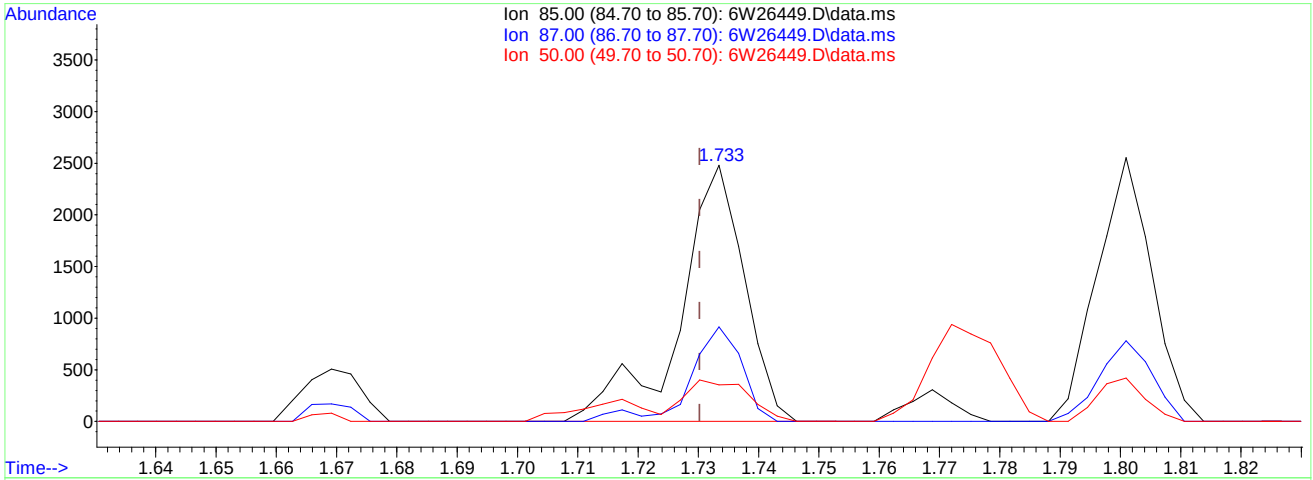
response 0

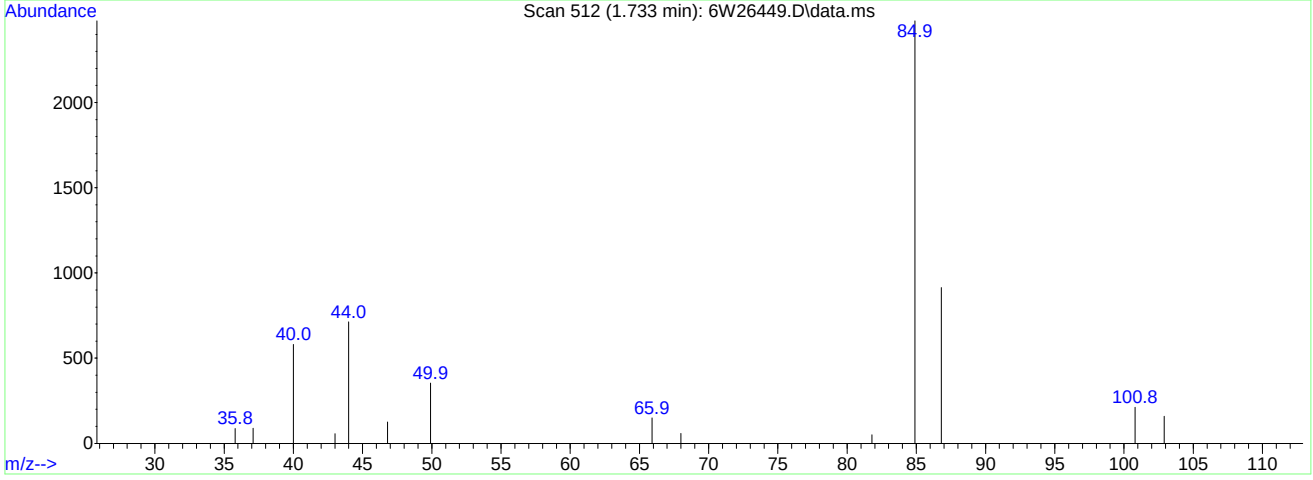
| Ion | Exp% | Act% |
|---|---|---|
| 52.00 | 100 | 0.00 |
| 50.00 | 310.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:06:39 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26449.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.733min (+0.003) 0.13PPBV

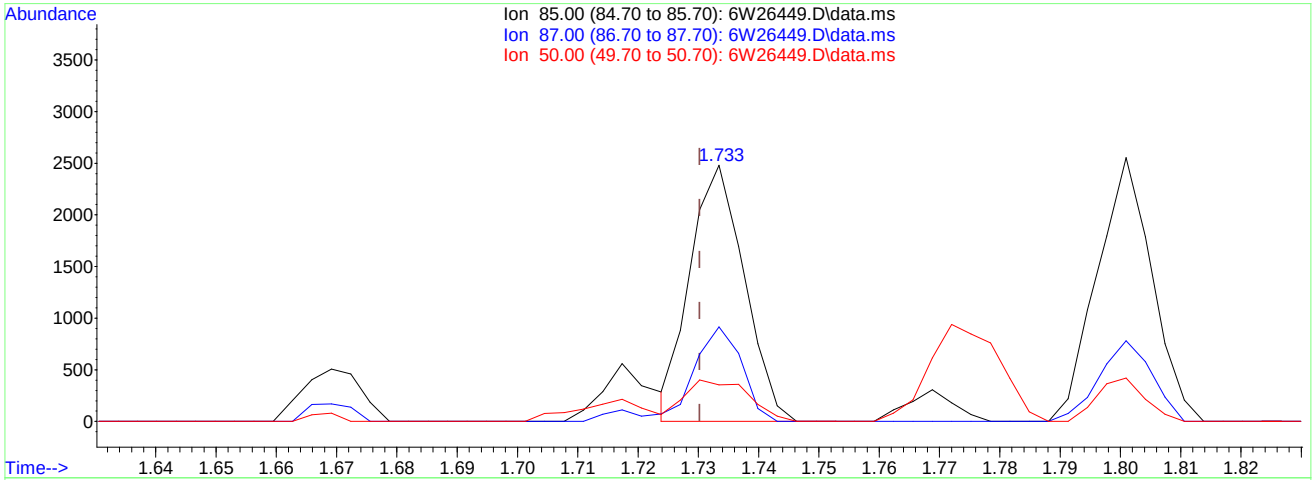
response 1852

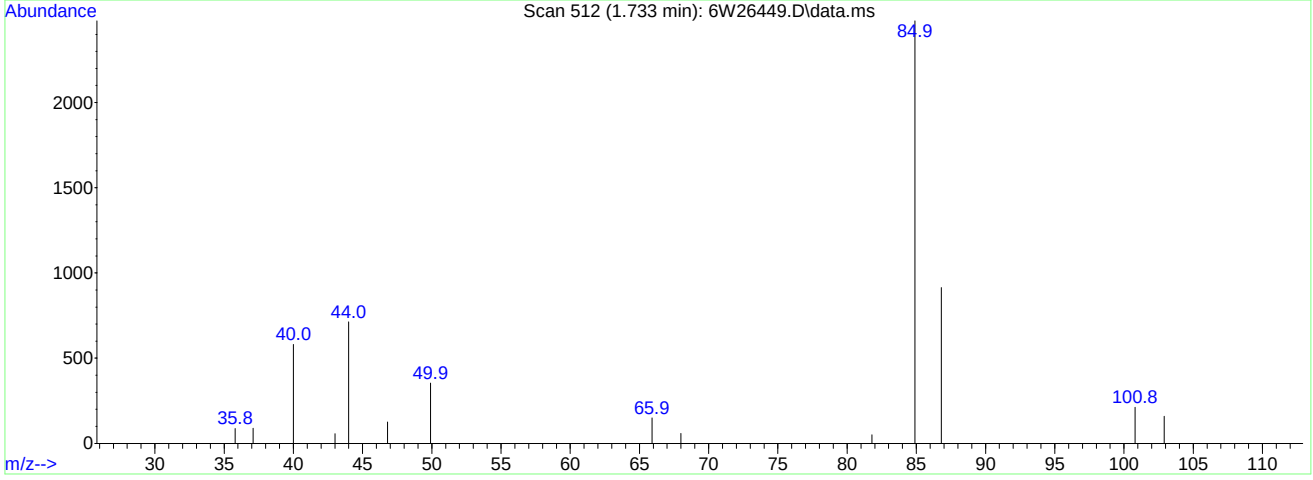
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 29.37 |
| 50.00 | 9.30 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:06:39 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26449.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.733min (+0.003) 0.10PPBV m

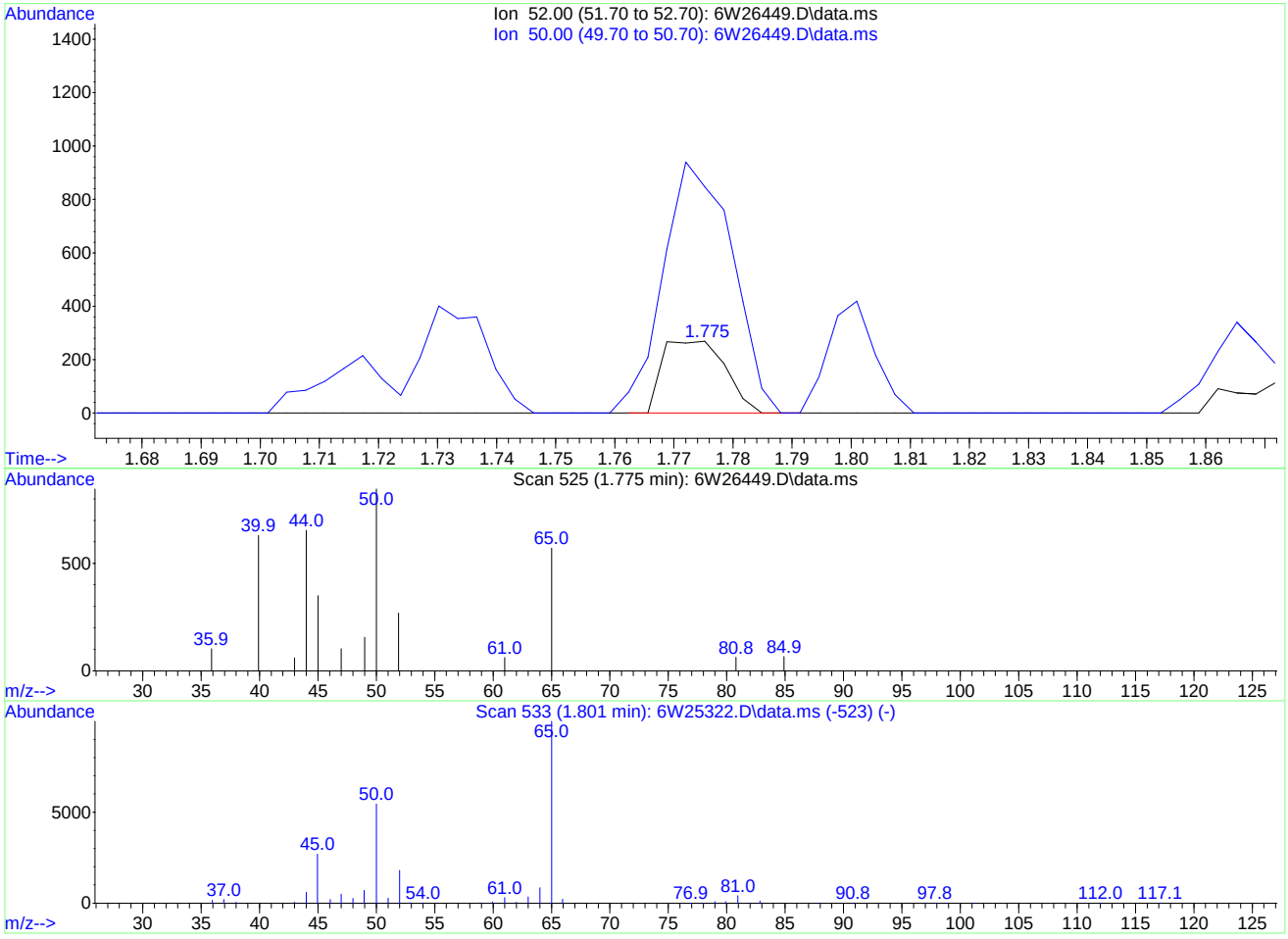
response 1546

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 35.19 |
| 50.00 | 9.30 | 0.00# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:06:39 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26449.D\data.ms

(10) CHLOROMETHANE (T)

1.775min (+0.003) 0.10PPBV m

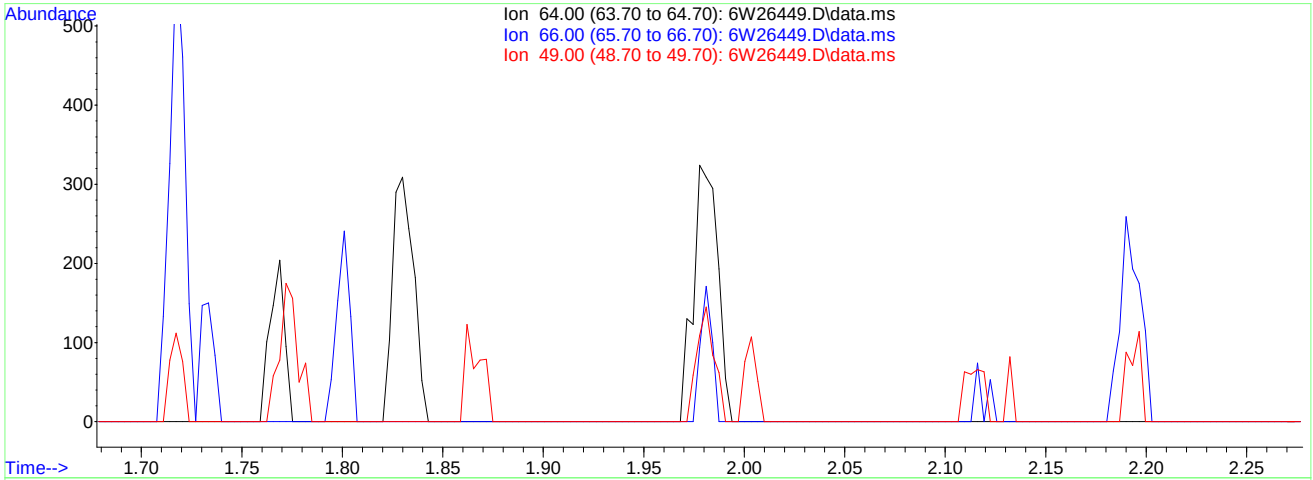
response 200

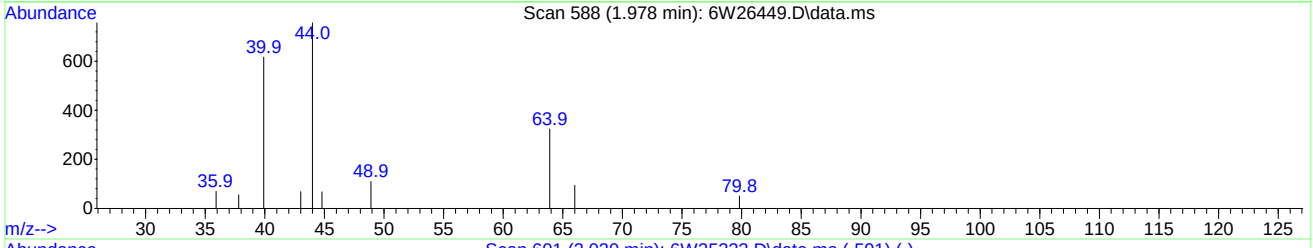
| Ion | Exp% | Act% |
|---|---|---|
| 52.00 | 100 | 100 |
| 50.00 | 310.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

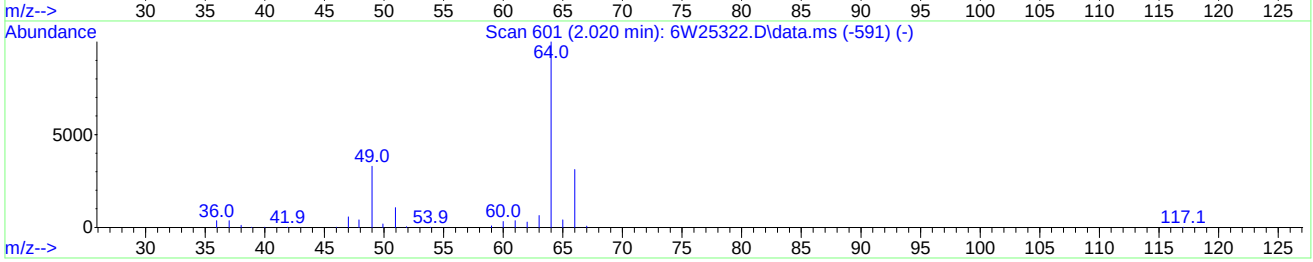
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:06:39 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26449.D\data.ms

(15) CHLOROETHANE (T)

1.978min (-1.978) 0.00PPBV

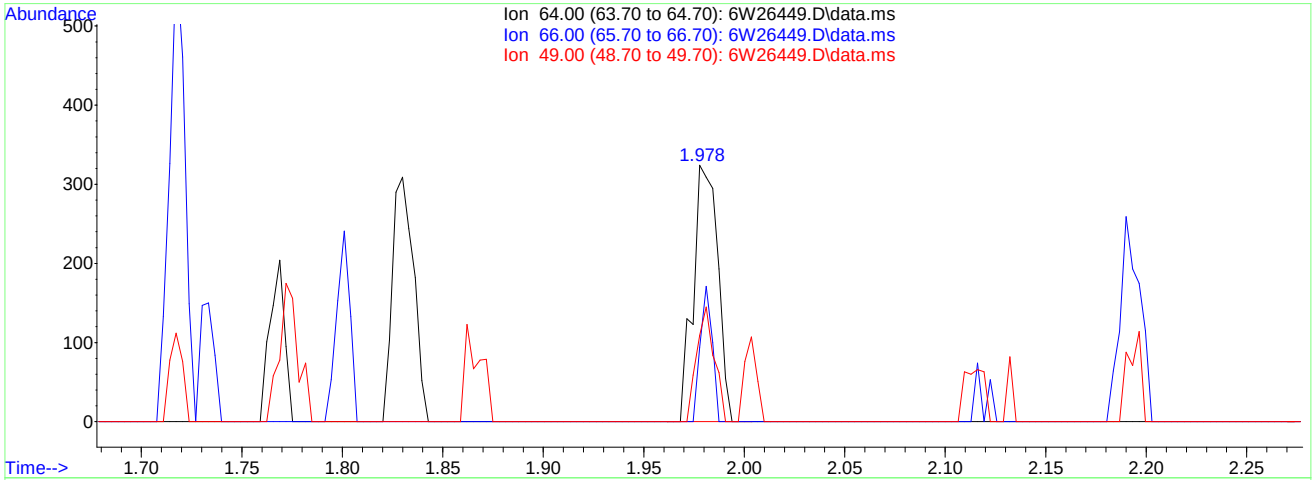
response 0

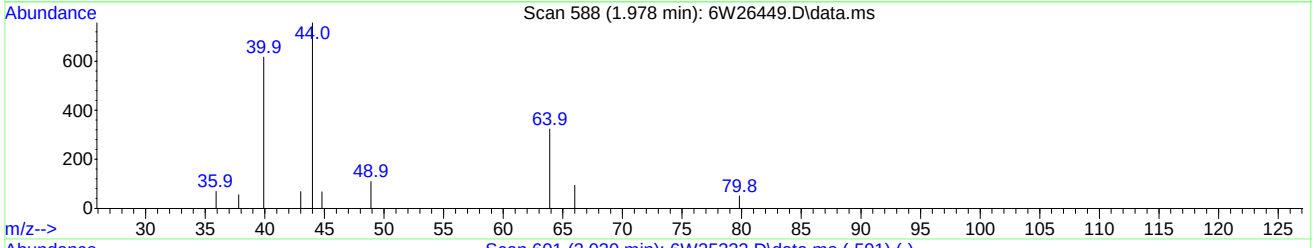
| Ion | Exp% | Act% |
|---|---|---|
| 64.00 | 100 | 0.00 |
| 66.00 | 33.90 | 0.00# |
| 49.00 | 29.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

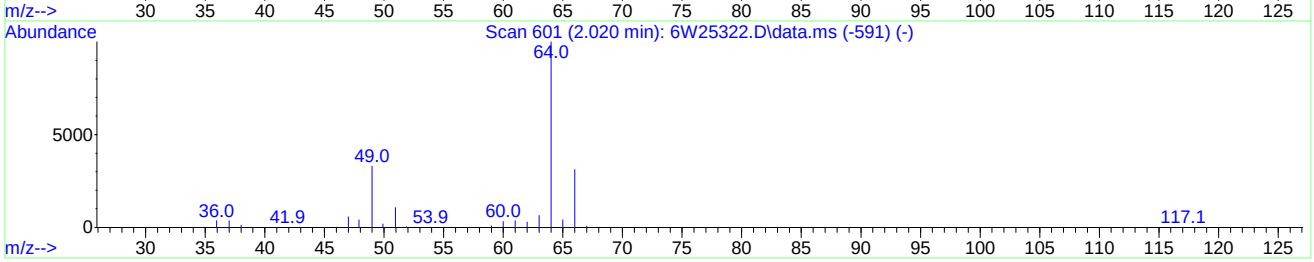
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:06:39 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26449.D\data.ms

(15) CHLOROETHANE (T)

1.978min (0.000) 0.09PPBV m

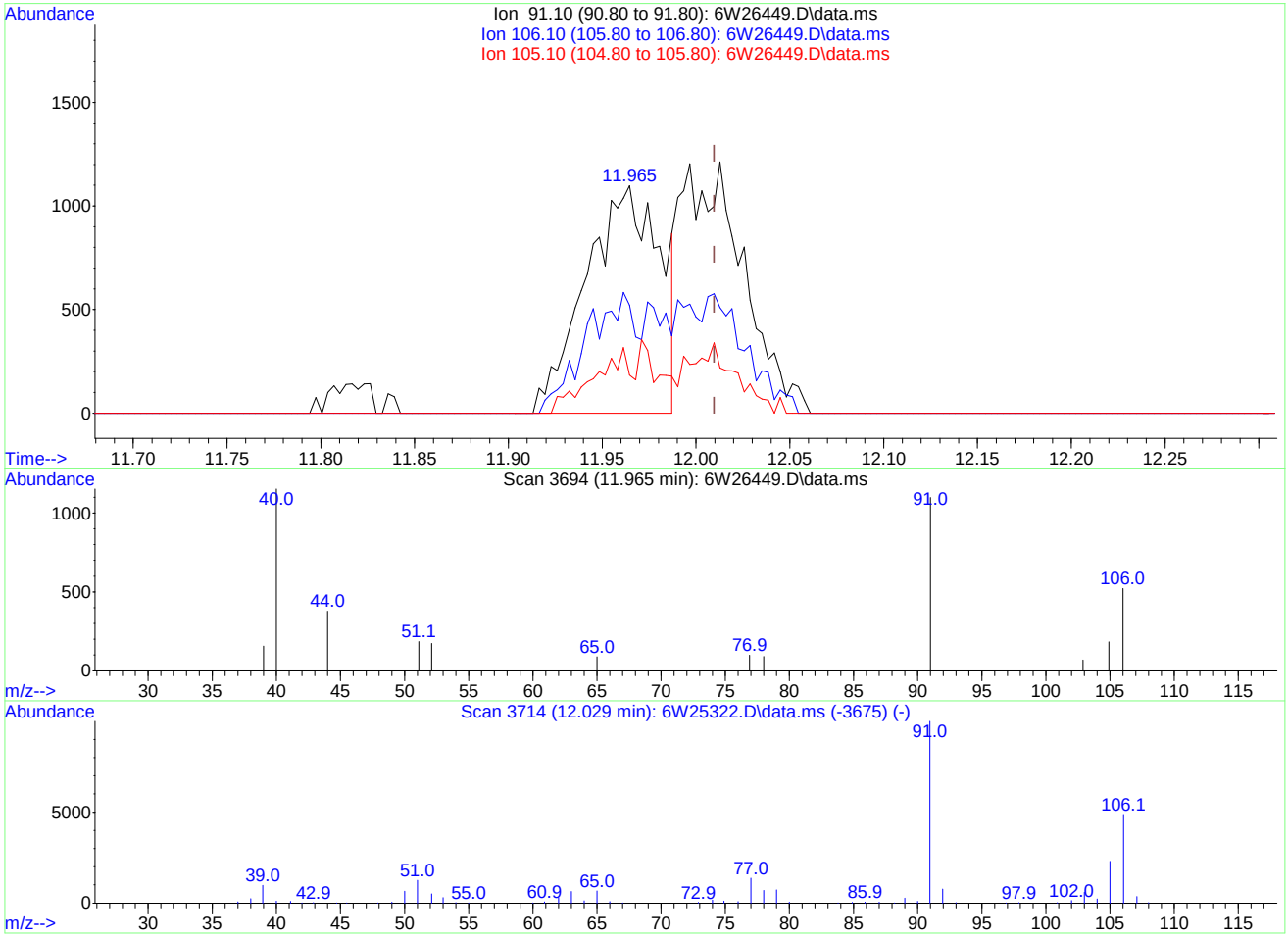
response 276

| Ion | Exp% | Act% |
|---|---|---|
| 64.00 | 100 | 100 |
| 66.00 | 33.90 | 0.00# |
| 49.00 | 29.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:06:39 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26449.D\data.ms

(80) M,P-XYLENE (t)

11.965min (-0.045) 0.12PPBV

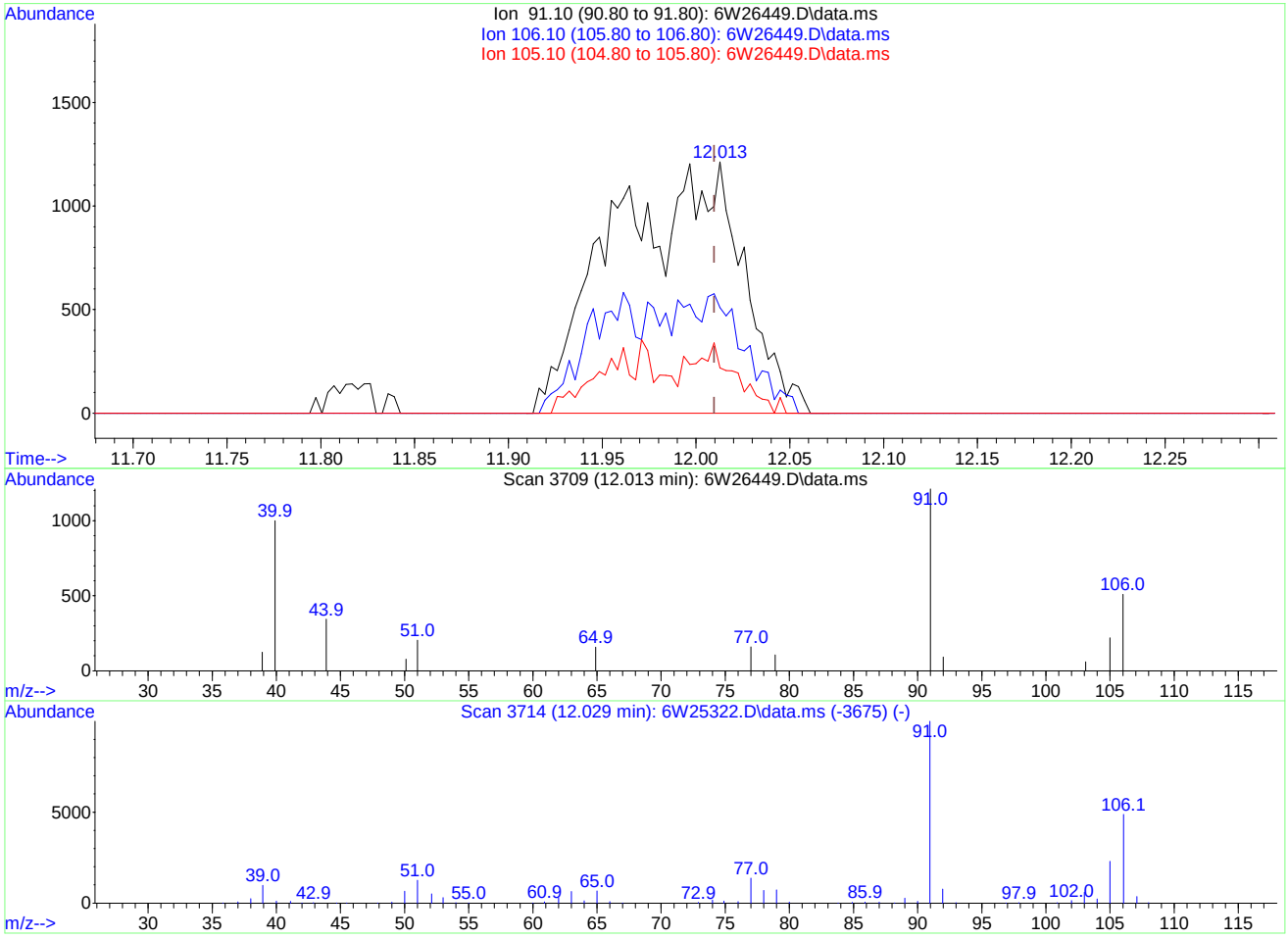
response 2993

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 51.45 |
| 105.10 | 23.60 | 23.52 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:06:39 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26449.D\data.ms

(80) M,P-XYLENE (t)

12.013min (+0.003) 0.23PPBV m

response 5763

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 26.72# |
| 105.10 | 23.60 | 12.22 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/20/22 12:15

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:22:22 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 46339 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.733 | 114 | 232045 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 202916 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.022 | 95 | 139177 | 9.69 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 845 | 0.22 | PPBV | # 53 |
| 4) CHLORODIFLUOROMETHANE | 1.708 | 67 | 366m | 0.21 | PPBV | |
| 5) CHLOROTRIFLUOROETHENE | 1.718 | 116 | 1766 | 0.22 | PPBV | # 97 |
| 6) DICHLORODIFLUOROMETHANE | 1.734 | 85 | 2981m | 0.21 | PPBV | |
| 7) PROPYLENE | 1.714 | 41 | 1228 | 0.22 | PPBV | # 91 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 2661 | 0.21 | PPBV | # 56 |
| 9) FREON 114 | 1.798 | 85 | 3047 | 0.22 | PPBV | 98 |
| 10) CHLOROMETHANE | 1.772 | 52 | 410m | 0.21 | PPBV | |
| 11) VINYL CHLORIDE | 1.827 | 62 | 1315 | 0.22 | PPBV | # 50 |
| 12) 1,3-BUTADIENE | 1.865 | 54 | 1056 | 0.22 | PPBV | # 60 |
| 13) N-BUTANE | 1.878 | 43 | 2287 | 0.23 | PPBV | # 65 |
| 14) BROMOMETHANE | 1.933 | 94 | 1003 | 0.22 | PPBV | # 91 |
| 15) CHLOROETHANE | 1.981 | 64 | 656 | 0.23 | PPBV | # 43 |
| 16) DICHLOROFLUOROMETHANE | 2.004 | 67 | 2656 | 0.22 | PPBV | # 92 |
| 17) ACETONITRILE | 2.068 | 41 | 1438 | 0.24 | PPBV | # 84 |
| 18) ACROLEIN | 2.103 | 56 | 451m | 0.16 | PPBV | |
| 19) FREON 123 | 2.113 | 83 | 2489 | 0.22 | PPBV | 98 |
| 20) FREON 123A | 2.132 | 117 | 1440 | 0.21 | PPBV | 84 |
| 21) TRICHLOROFLUOROMETHANE | 2.190 | 101 | 2941 | 0.21 | PPBV | # 96 |
| 22) ISOPROPYL ALCOHOL | 2.213 | 45 | 3020 | 0.23 | PPBV | # 75 |
| 23) ACETONE | 2.142 | 58 | 851 | 0.29 | PPBV | # 39 |
| 24) PENTANE | 2.296 | 42 | 1697 | 0.24 | PPBV | # 79 |
| 25) IODOMETHANE | 2.357 | 142 | 2871 | 0.21 | PPBV | # 87 |
| 26) 1,1-DICHLOROETHYLENE | 2.383 | 96 | 1152 | 0.21 | PPBV | # 65 |
| 27) CARBON DISULFIDE | 2.521 | 76 | 3734 | 0.21 | PPBV | # 52 |
| 28) ETHANOL | 2.007 | 45 | 896 | 0.31 | PPBV | # 40 |
| 29) BROMOETHENE | 2.074 | 106 | 1029 | 0.22 | PPBV | # 96 |
| 30) ACRYLONITRILE | 2.274 | 52 | 971 | 0.21 | PPBV | # 78 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 1504 | 0.28 | PPBV | # 39 |
| 32) 3-CHLOROPROPENE | 2.463 | 76 | 526 | 0.19 | PPBV | # 1 |
| 33) FREON 113 | 2.521 | 151 | 2113 | 0.21 | PPBV | 92 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 1281 | 0.21 | PPBV | # 78 |
| 35) TERTIARY BUTYL ALCOHOL | 2.406 | 59 | 2276 | 0.20 | PPBV | # 79 |
| 36) METHYL TERTIARY BUTYL ... | 2.894 | 73 | 3224 | 0.21 | PPBV | # 88 |
| 37) TETRAHYDROFURAN | 3.672 | 72 | 527 | 0.19 | PPBV | # 1 |
| 38) HEXANE | 3.389 | 57 | 2506 | 0.21 | PPBV | # 77 |
| 39) VINYL ACETATE | 2.933 | 86 | 339m | 0.23 | PPBV | |
| 40) 1,1-DICHLOROETHANE | 2.849 | 63 | 2466 | 0.21 | PPBV | # 88 |
| 41) METHYL ETHYL KETONE | 3.052 | 72 | 636 | 0.21 | PPBV | # 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 1388 | 0.22 | PPBV | # 82 |
| 43) DIISOPROPYL ETHER | 3.402 | 59 | 664 | 0.19 | PPBV | # 31 |
| 44) ETHYL ACETATE | 3.415 | 61 | 474m | 0.20 | PPBV | |
| 45) METHYL ACRYLATE | 3.396 | 55 | 3141 | 0.21 | PPBV | # 65 |
| 46) CHLOROFORM | 3.418 | 83 | 2846 | 0.21 | PPBV | # 92 |
| 47) 2,4-DIMETHYLPENTANE | 3.955 | 57 | 2721 | 0.20 | PPBV | # 87 |
| 48) 1,1,1-TRICHLOROETHANE | 4.049 | 97 | 2661 | 0.21 | PPBV | # 92 |
| 49) CARBON TETRACHLORIDE | 4.499 | 117 | 2945 | 0.20 | PPBV | 96 |
| 50) 1,2-DICHLOROETHANE | 3.872 | 62 | 2146 | 0.21 | PPBV | # 88 |
| 51) BENZENE | 4.383 | 78 | 4330 | 0.23 | PPBV | 80 |
| 53) CYCLOHEXANE | 4.605 | 84 | 1651 | 0.20 | PPBV | # 77 |
| 54) 2,3-DIMETHYLPENTANE | 4.885 | 71 | 956 | 0.21 | PPBV | # 59 |
| 55) TRICHLOROETHENE | 5.348 | 95 | 1872 | 0.21 | PPBV | 98 |
| 56) 1,2-DICHLOROPROPANE | 5.103 | 63 | 1638 | 0.20 | PPBV | # 72 |
| 57) DIBROMOMETHANE | 5.055 | 174 | 1765 | 0.22 | PPBV | 90 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:22:22 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

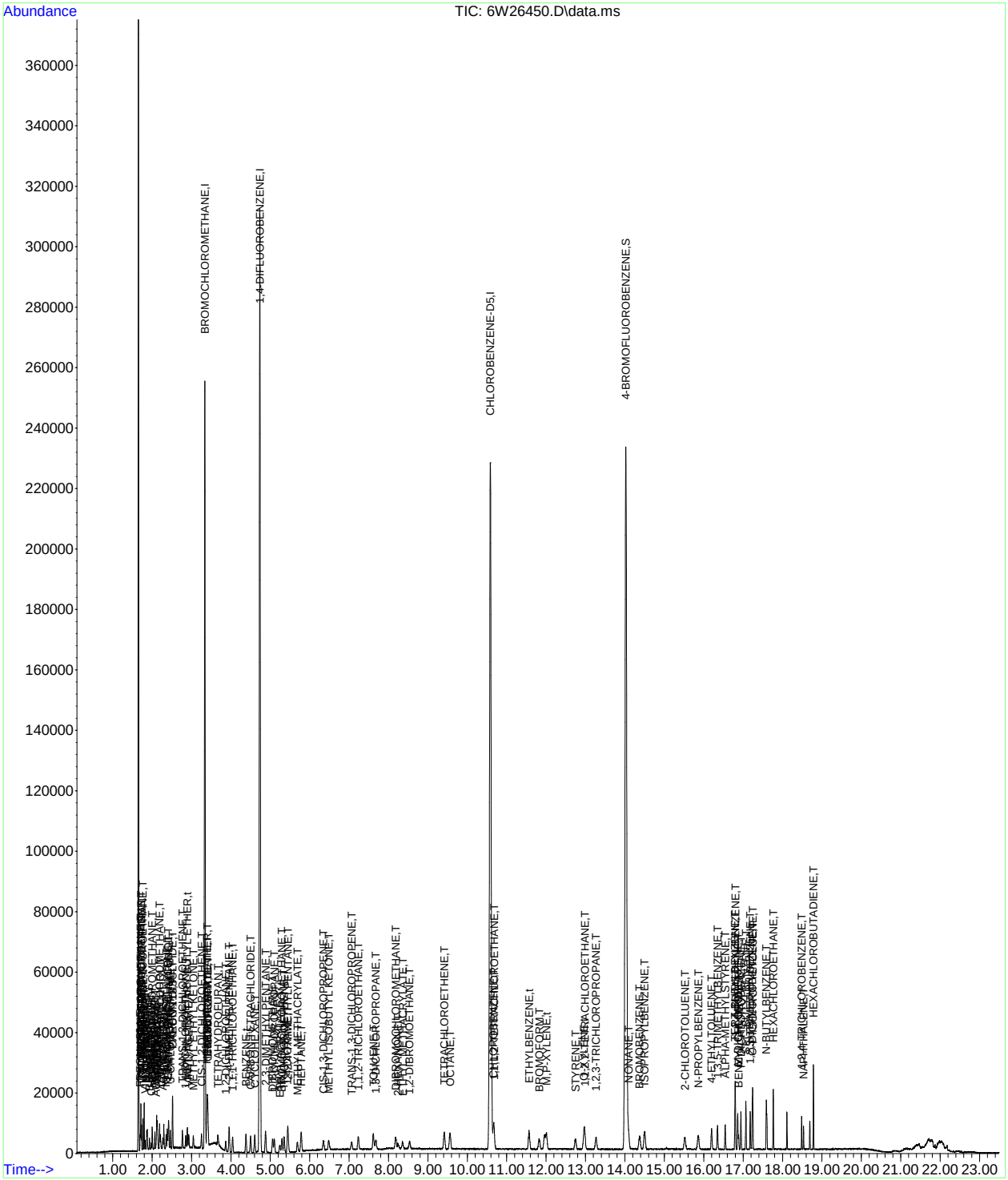
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.241 | 55 | 3251 | 0.18 | PPBV | # | 73 |
| 59) BROMODICHLOROMETHANE | 5.293 | 83 | 2997 | 0.20 | PPBV | | 92 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.447 | 57 | 7674 | 0.20 | PPBV | # | 97 |
| 61) 1,4-DIOXANE | 5.434 | 88 | 650m | 0.16 | PPBV | | |
| 62) HEPTANE | 5.788 | 43 | 2944 | 0.20 | PPBV | # | 75 |
| 63) METHYL METHACRYLATE | 5.688 | 69 | 1358 | 0.18 | PPBV | # | 34 |
| 64) METHYL ISOBUTYL KETONE | 6.483 | 58 | 954 | 0.14 | PPBV | # | 30 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.348 | 75 | 2021 | 0.18 | PPBV | # | 68 |
| 66) TOLUENE | 7.621 | 91 | 5056 | 0.21 | PPBV | | 95 |
| 67) 1,3-DICHLOROPROPANE | 7.672 | 76 | 2398 | 0.20 | PPBV | # | 93 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.065 | 75 | 1636 | 0.17 | PPBV | # | 68 |
| 69) 1,1,2-TRICHLOROETHANE | 7.238 | 83 | 1464 | 0.21 | PPBV | | 96 |
| 70) 2-HEXANONE | 8.238 | 58 | 861 | 0.11 | PPBV | # | 45 |
| 71) ETHYL METHACRYLATE | 8.367 | 69 | 1692 | 0.15 | PPBV | # | 54 |
| 72) TETRACHLOROETHENE | 9.415 | 164 | 1798 | 0.20 | PPBV | | 92 |
| 73) DIBROMOCHLOROMETHANE | 8.180 | 129 | 3068 | 0.19 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.534 | 107 | 2603 | 0.20 | PPBV | # | 99 |
| 75) OCTANE | 9.563 | 43 | 3514 | 0.17 | PPBV | # | 73 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.682 | 131 | 2288 | 0.21 | PPBV | | 96 |
| 78) CHLOROBENZENE | 10.659 | 112 | 4059 | 0.21 | PPBV | | 98 |
| 79) ETHYLBENZENE | 11.566 | 91 | 6718 | 0.21 | PPBV | | 97 |
| 80) M,P-XYLENE | 12.010 | 91 | 9676 | 0.40 | PPBV | # | 67 |
| 81) O-XYLENE | 12.958 | 91 | 4830 | 0.20 | PPBV | # | 88 |
| 82) STYRENE | 12.752 | 104 | 2971 | 0.16 | PPBV | | 97 |
| 83) NONANE | 14.096 | 43 | 4410 | 0.20 | PPBV | # | 65 |
| 84) BROMOFORM | 11.826 | 173 | 2719 | 0.19 | PPBV | # | 91 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.990 | 83 | 3781 | 0.20 | PPBV | # | 94 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.264 | 75 | 2723 | 0.19 | PPBV | | 99 |
| 88) ISOPROPYLBENZENE | 14.495 | 105 | 7179 | 0.20 | PPBV | | 93 |
| 89) BROMOBENZENE | 14.367 | 77 | 3434 | 0.19 | PPBV | | 95 |
| 90) 2-CHLOROTOLUENE | 15.524 | 91 | 4173 | 0.17 | PPBV | # | 92 |
| 91) N-PROPYLBENZENE | 15.862 | 91 | 6867 | 0.16 | PPBV | # | 94 |
| 92) 4-ETHYLTOLUENE | 16.196 | 105 | 5072 | 0.14 | PPBV | # | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.350 | 105 | 4453 | 0.15 | PPBV | # | 94 |
| 94) ALPHA-METHYLSTYRENE | 16.546 | 118 | 2146 | 0.14 | PPBV | | 95 |
| 95) TERT-BUTYLBENZENE | 16.794 | 119 | 4944 | 0.15 | PPBV | | 90 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.800 | 105 | 4538 | 0.15 | PPBV | | 96 |
| 97) BENZYL CHLORIDE | 16.884 | 91 | 2169 | 0.12 | PPBV | # | 60 |
| 98) M-DICHLOROBENZENE | 16.865 | 146 | 3704 | 0.18 | PPBV | | 99 |
| 99) P-DICHLOROBENZENE | 16.945 | 146 | 3555 | 0.17 | PPBV | | 98 |
| 100) O-DICHLOROBENZENE | 17.231 | 146 | 3596 | 0.18 | PPBV | | 97 |
| 101) SEC-BUTYLBENZENE | 17.071 | 105 | 7168 | 0.16 | PPBV | | 98 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.180 | 105 | 4563 | 0.15 | PPBV | # | 94 |
| 103) P-ISOPROPYLTOLUENE | 17.244 | 119 | 5909 | 0.15 | PPBV | | 95 |
| 104) N-BUTYLBENZENE | 17.585 | 91 | 4838 | 0.13 | PPBV | | 97 |
| 105) HEXACHLOROETHANE | 17.765 | 117 | 2295 | 0.18 | PPBV | # | 87 |
| 106) HEXACHLOROBUTADIENE | 18.784 | 225 | 2527 | 0.18 | PPBV | | 97 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.485 | 180 | 1765 | 0.11 | PPBV | | 100 |
| 108) NAPHTHALENE | 18.534 | 128 | 3313 | 0.08 | PPBV | # | 69 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:22:22 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



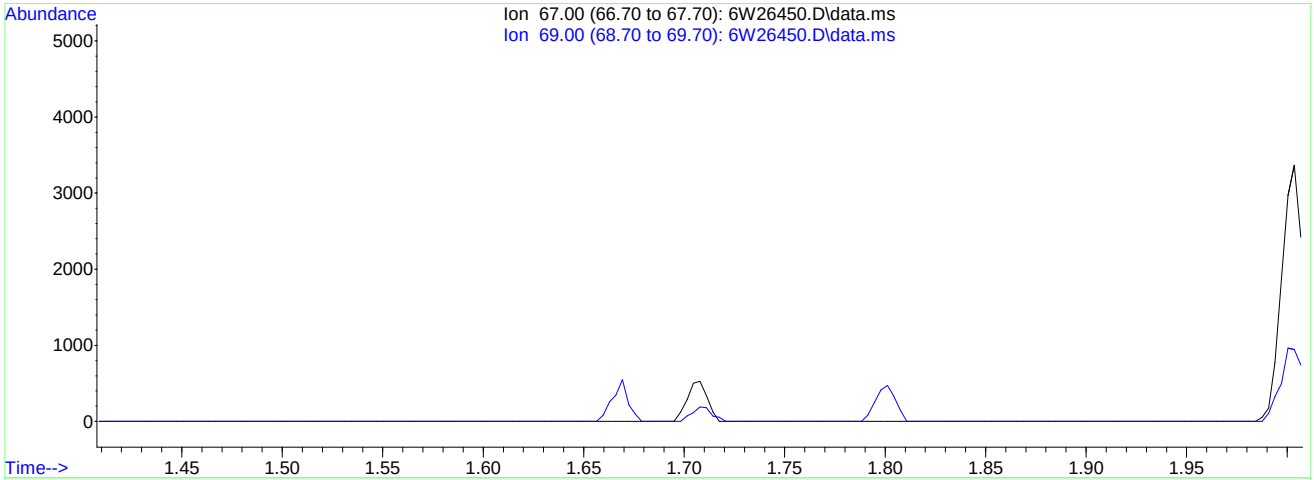
**Sample Number:** V6W1125-IC1125 **Method:** TO-15
**Lab FileID:** 6W26450.D **Analyst approved:** 10/20/22 10:04 Thomas Hilbig
**Injection Time:** 10/19/22 20:15 **Supervisor approved:** 10/20/22 12:15 Kanya Veerawat

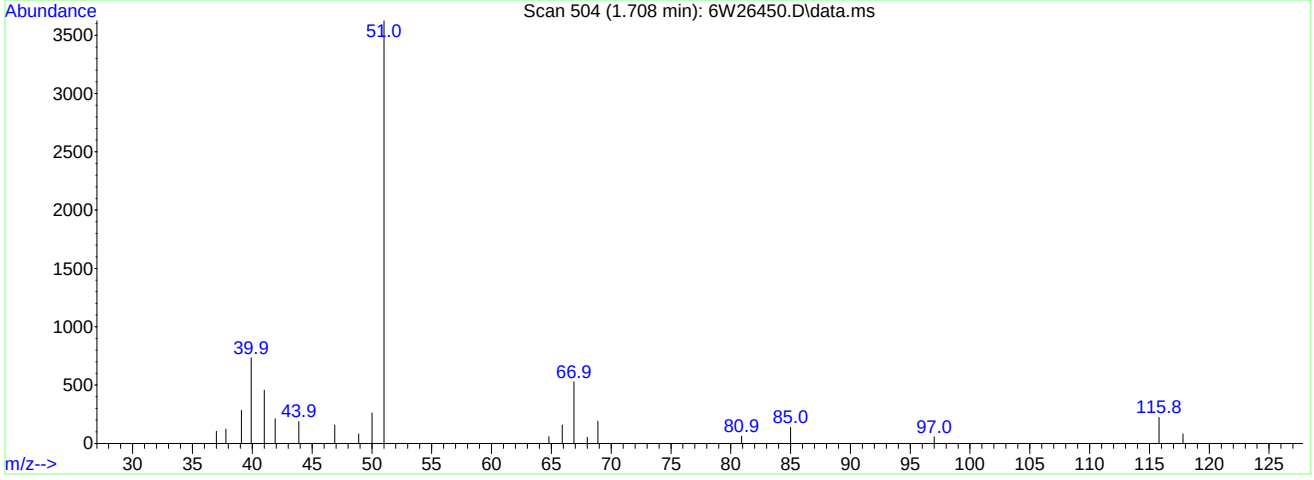
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Chlorodifluoromethane | 75-45-6 | | 1.71 | Missed peak |
| Dichlorodifluoromethane | 75-71-8 | | 1.73 | Overlapping peak |
| Chloromethane | 74-87-3 | | 1.77 | Missed peak |
| Acrolein | 107-02-8 | | 2.10 | Missed peak |
| Vinyl Acetate | 108-05-4 | | 2.93 | Missed peak |
| Ethyl Acetate | 141-78-6 | | 3.42 | Missed peak |
| 1,4-Dioxane | 123-91-1 | | 5.43 | Missed peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26450.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.708min (-1.708) 0.00PPBV

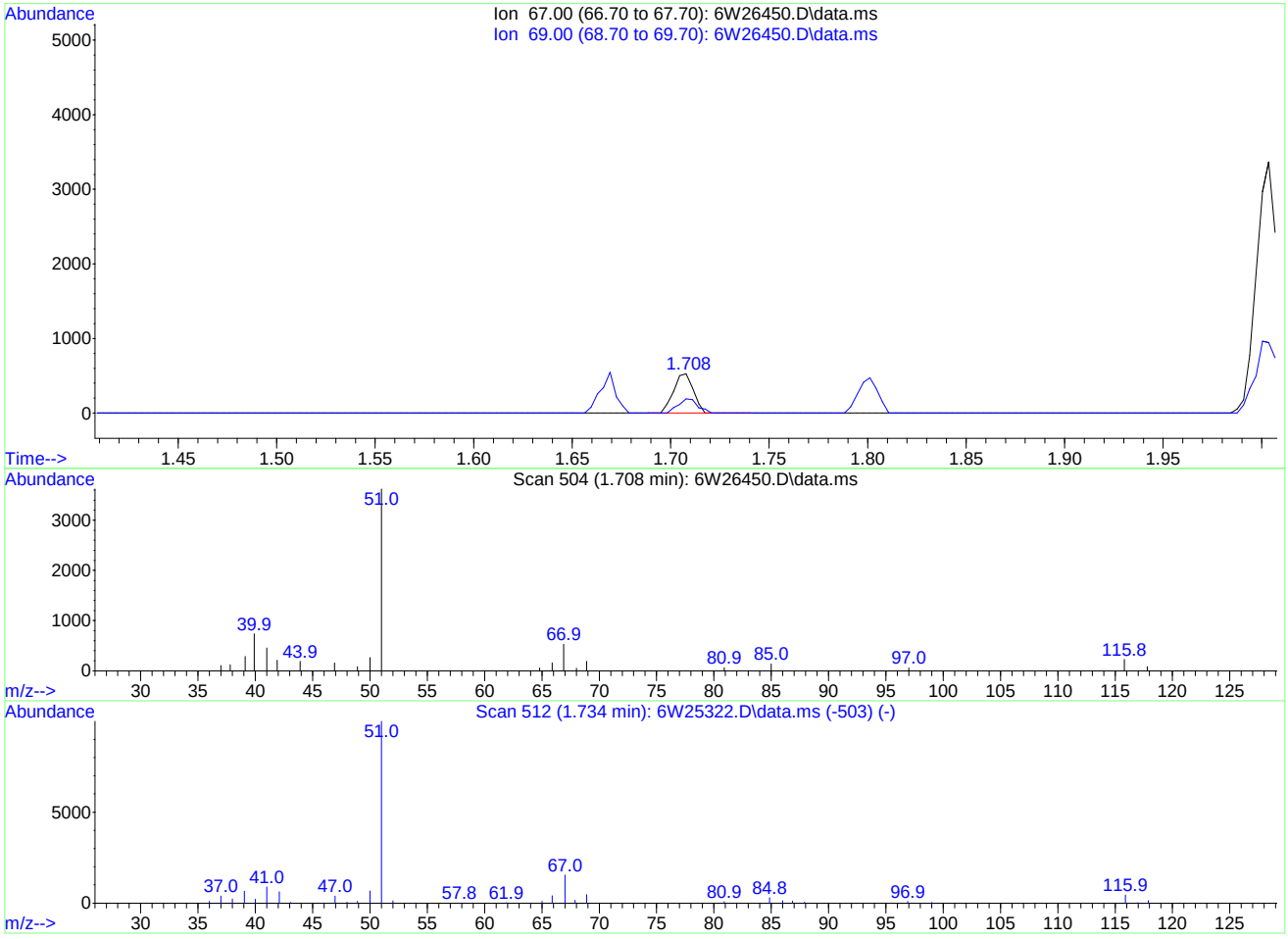
response 0

| Ion | Exp% | Act% |
|---|---|---|
| 67.00 | 100 | 0.00 |
| 69.00 | 36.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26450.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.708min (+0.000) 0.21PPBV m

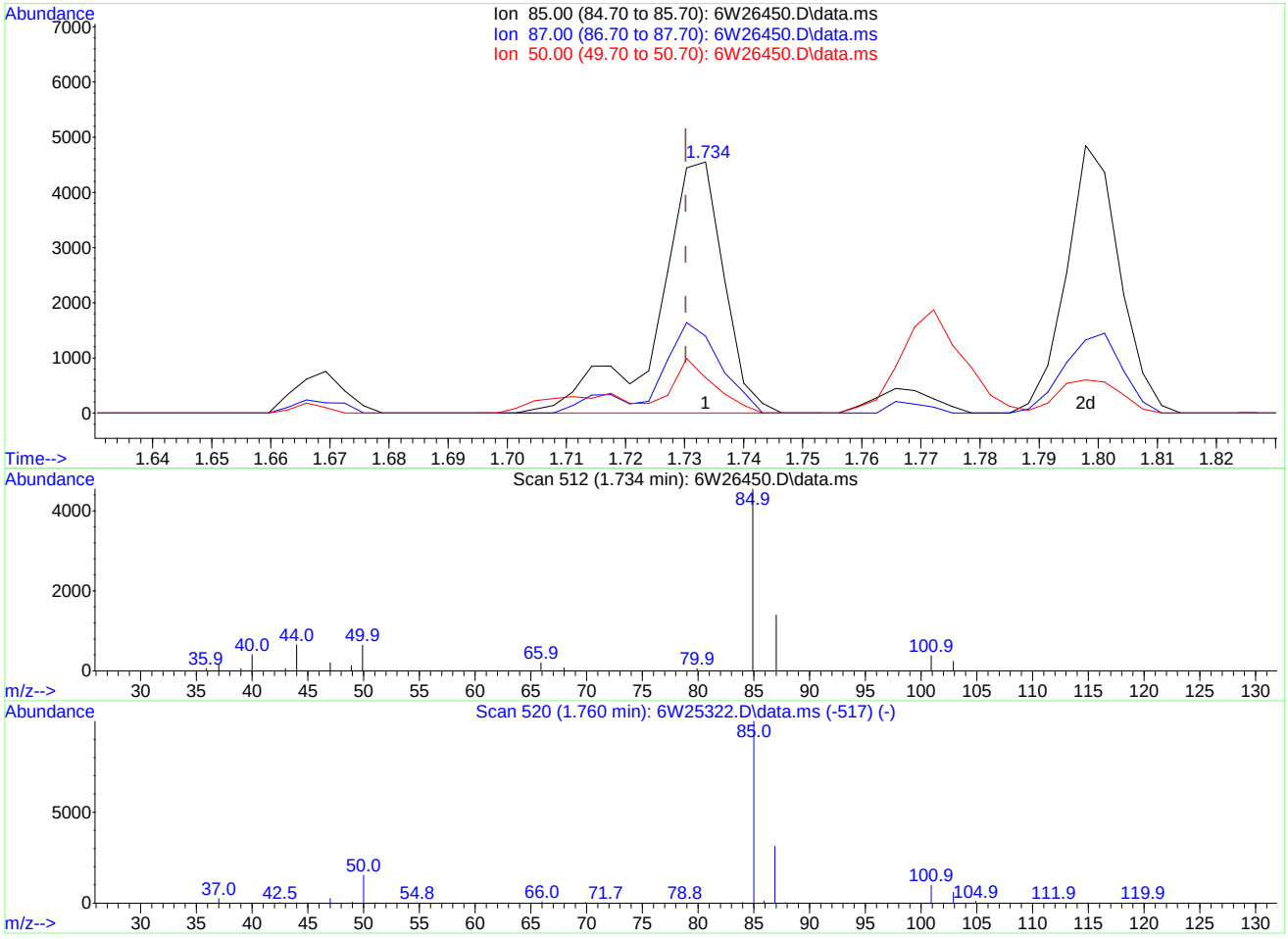
response 366

| Ion | Exp% | Act% |
|---|---|---|
| 67.00 | 100 | 100 |
| 69.00 | 36.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26450.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.734min (+0.003) 0.25PPBV

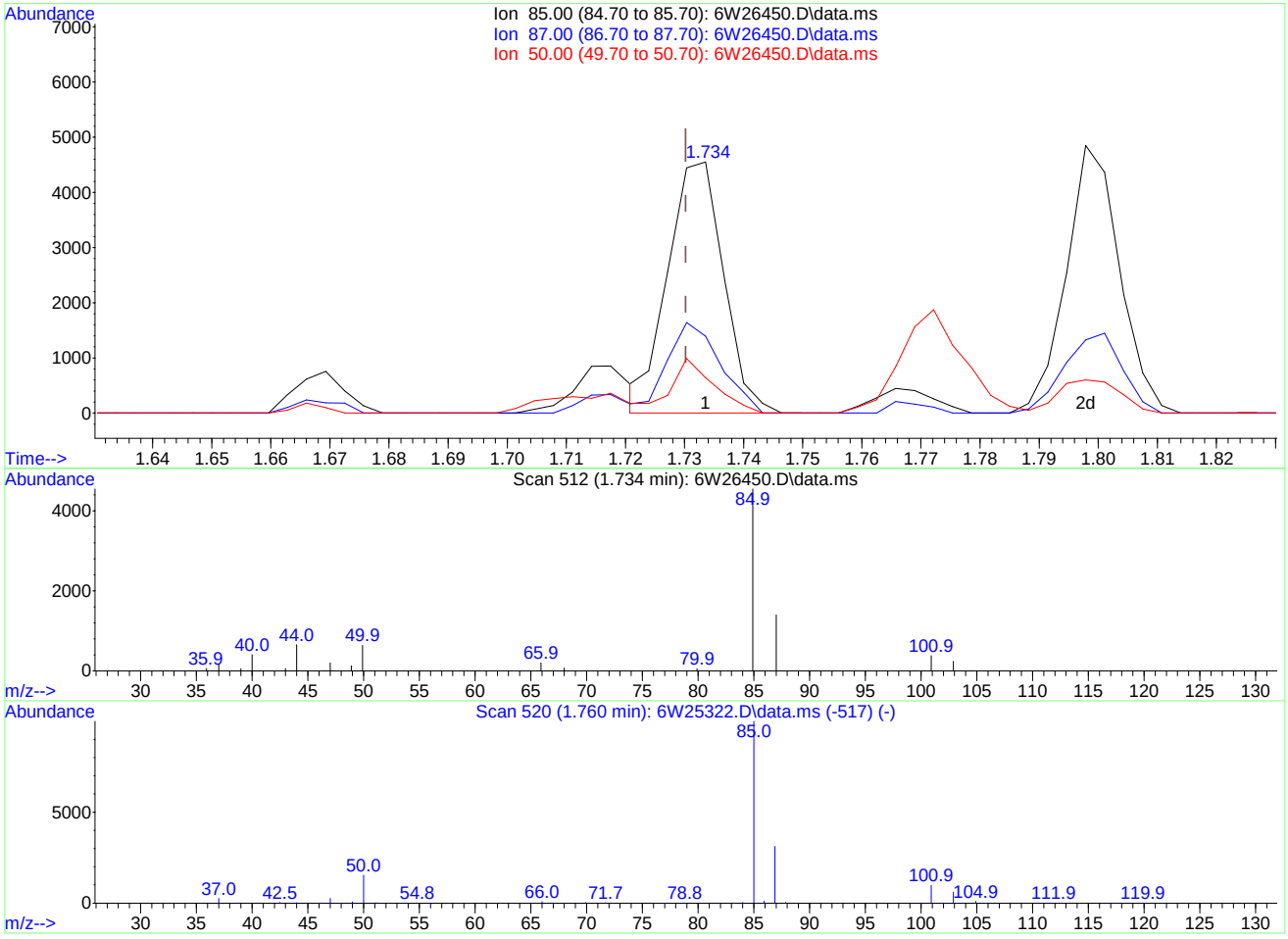
response 3525

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 34.44 |
| 50.00 | 9.30 | 23.43# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26450.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.734min (+0.003) 0.21PPBV m

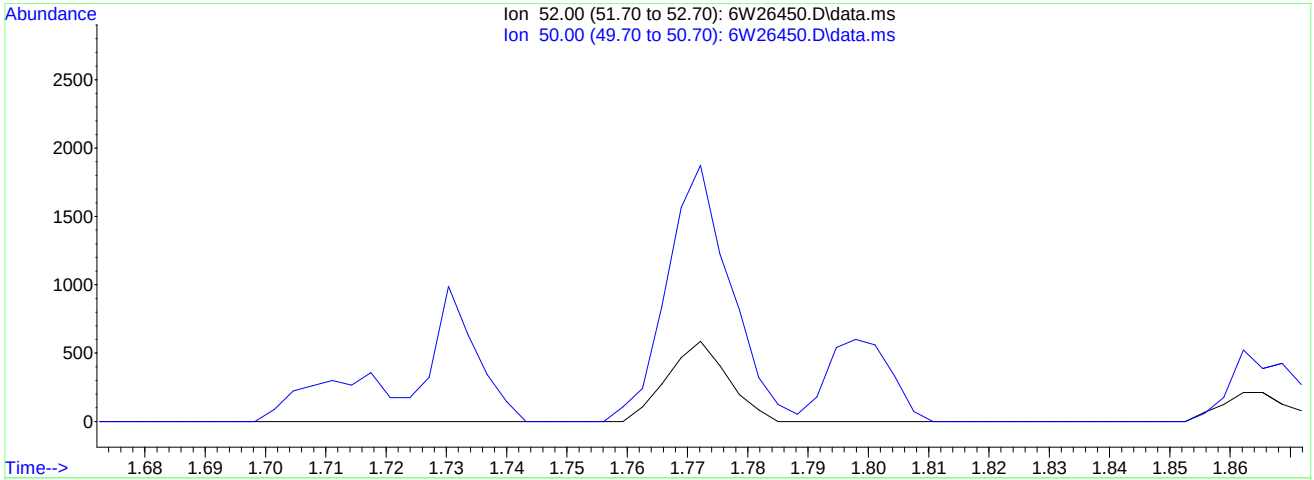
response 2981

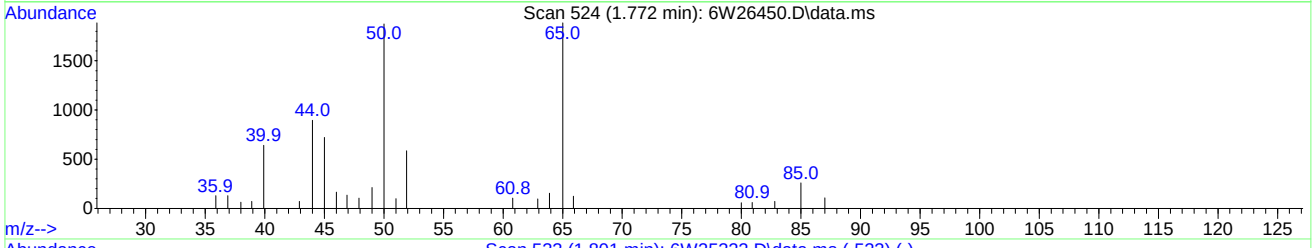
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 40.72# |
| 50.00 | 9.30 | 27.71# |
| 0.00 | 0.00 | 0.00 |

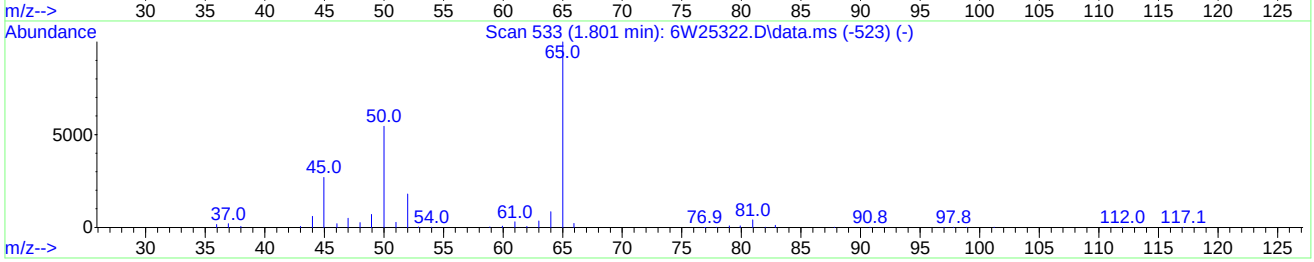
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26450.D\data.ms

(10) CHLOROMETHANE (T)

1.772min (-1.772) 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 52.00 | 100 | 0.00 |
| 50.00 | 310.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |





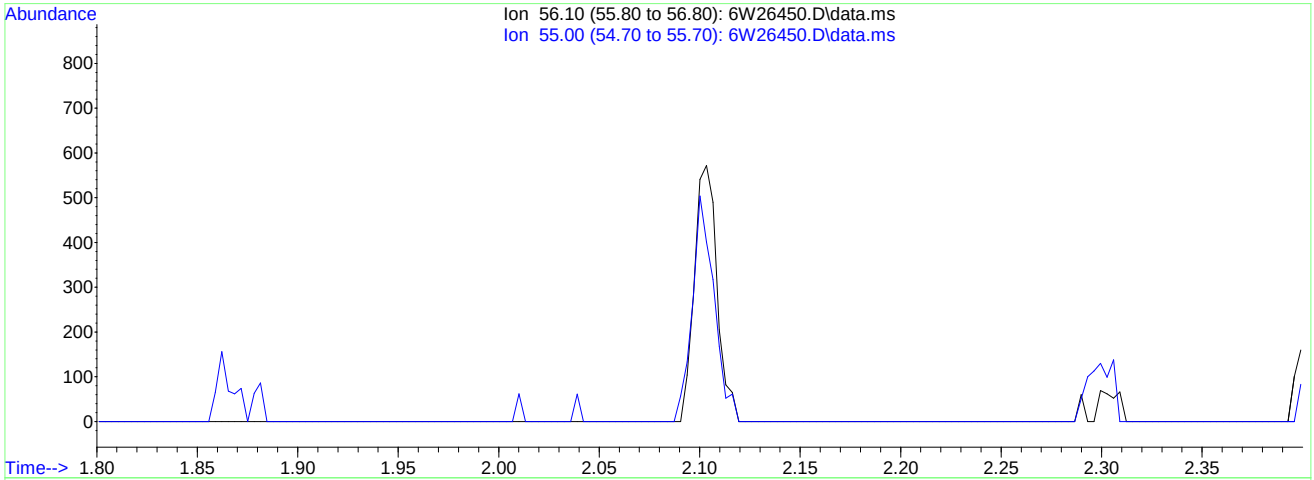


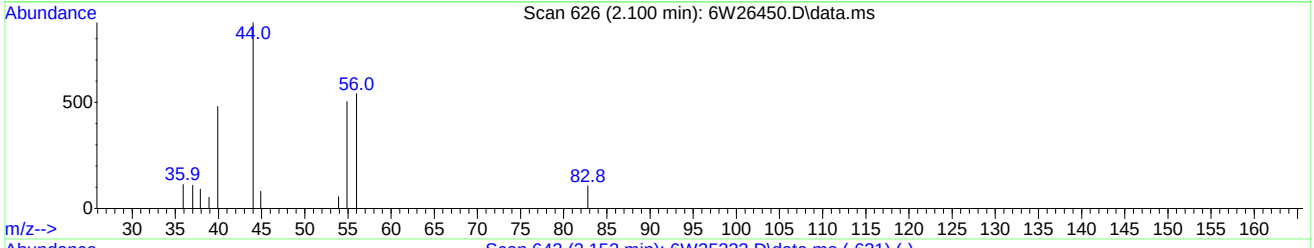
6W26450.D edits: CHLOROMETHANE

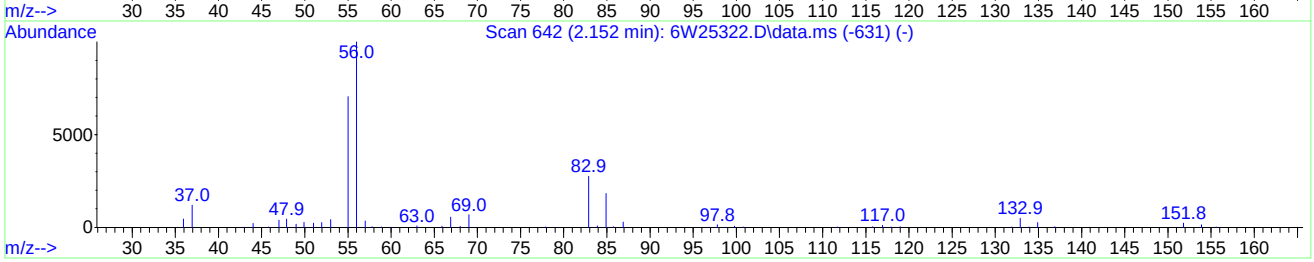
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26450.D\data.ms

(18) ACROLEIN (T)

2.100min (-2.100) 0.00PPBV

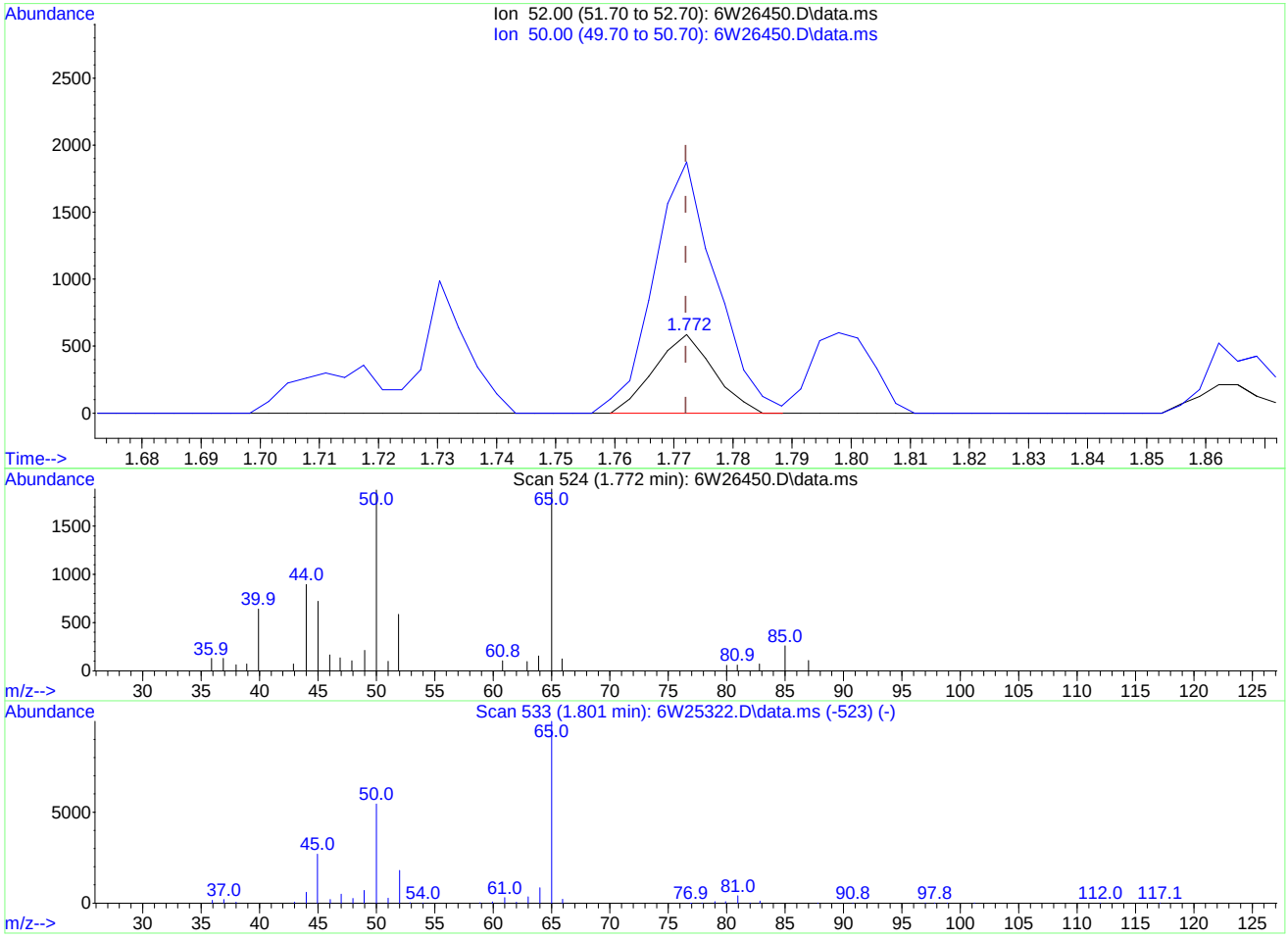
response 0

| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 0.00 |
| 55.00 | 70.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26450.D\data.ms

(10) CHLOROMETHANE (T)

1.772min (+0.000) 0.21PPBV m

response 410

| Ion | Exp% | Act% |
|---|---|---|
| 52.00 | 100 | 100 |
| 50.00 | 310.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |





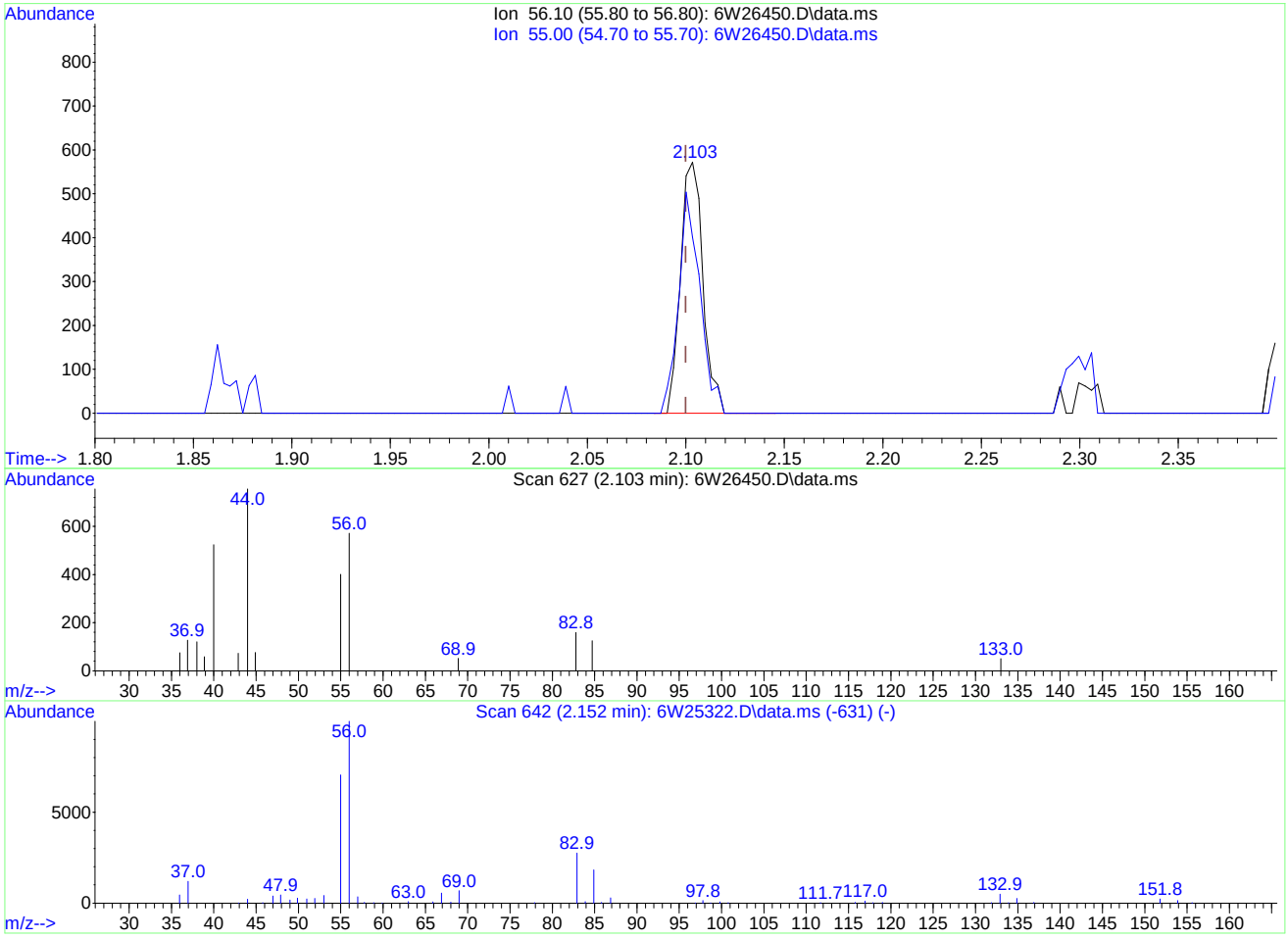


6W26450.D edits: CHLOROMETHANE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26450.D\data.ms

(18) ACROLEIN (T)

2.103min (+0.003) 0.16PPBV m

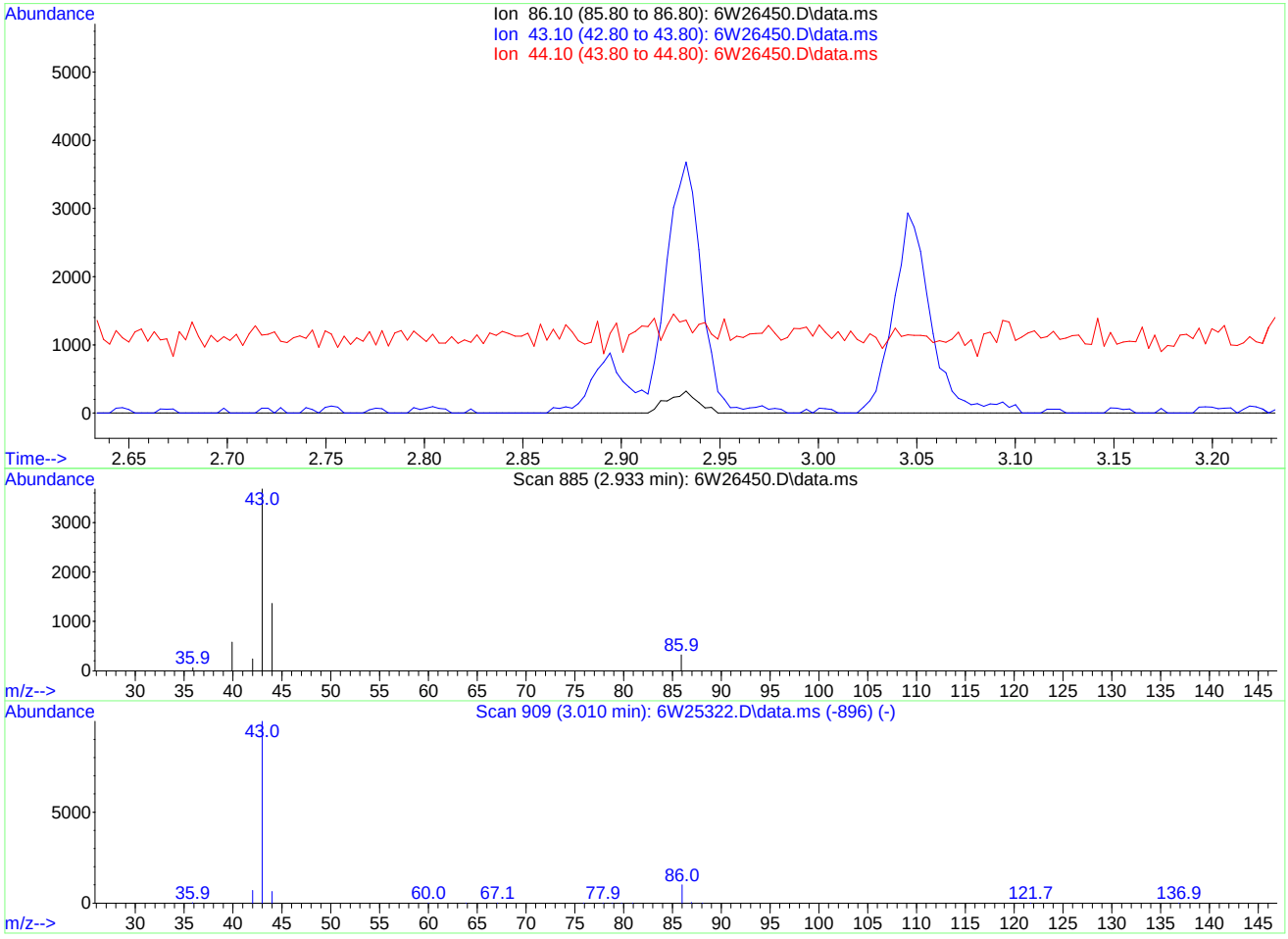
response 451

| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 100 |
| 55.00 | 70.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26450.D\data.ms

(39) VINYL ACETATE (T)

2.933min (-2.933) 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 86.10 | 100 | 0.00 |
| 43.10 | 782.90 | 0.00# |
| 44.10 | 43.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

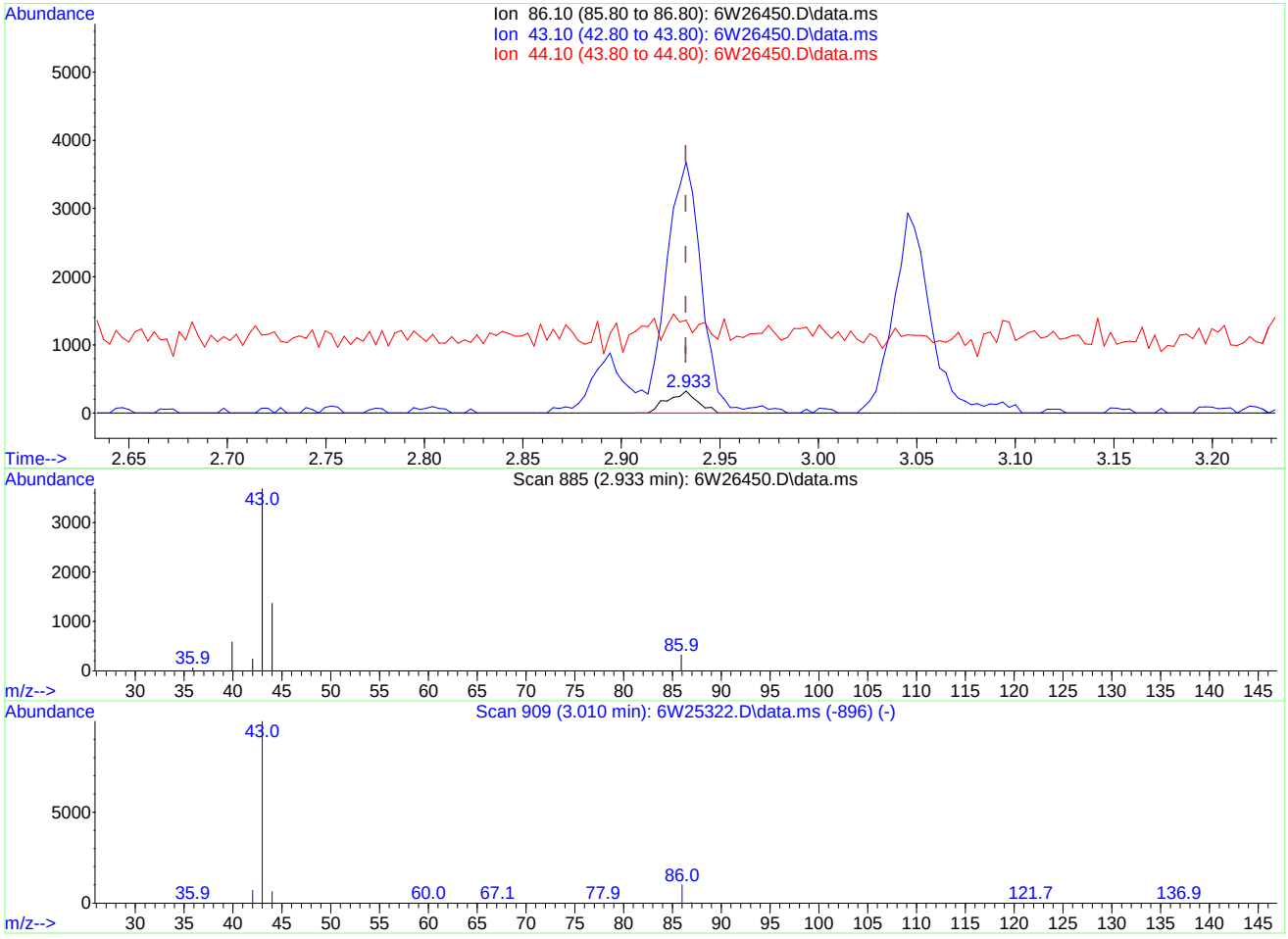


6W26450.D edits: VINYL ACETATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26450.D\data.ms

(39) VINYL ACETATE (T)

2.933min (+0.000) 0.23PPBV m

response 339

| Ion | Exp% | Act% |
|---|---|---|
| 86.10 | 100 | 100 |
| 43.10 | 782.90 | 0.00# |
| 44.10 | 43.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |



6W26450.D edits: VINYL ACETATE

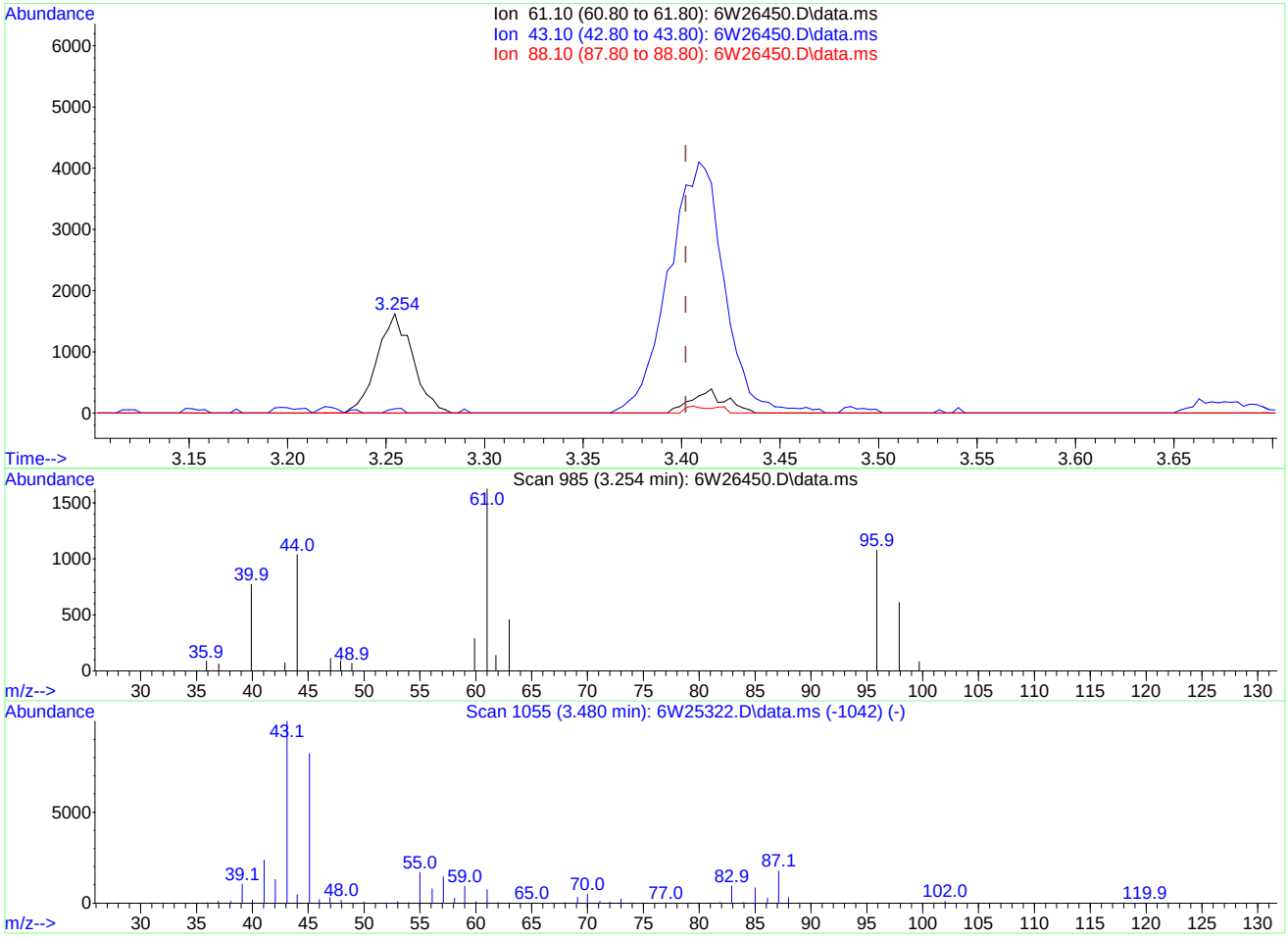


JD54338

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26450.D\data.ms

(44) ETHYL ACETATE (T)

3.254min (-0.148) 0.87PPBV

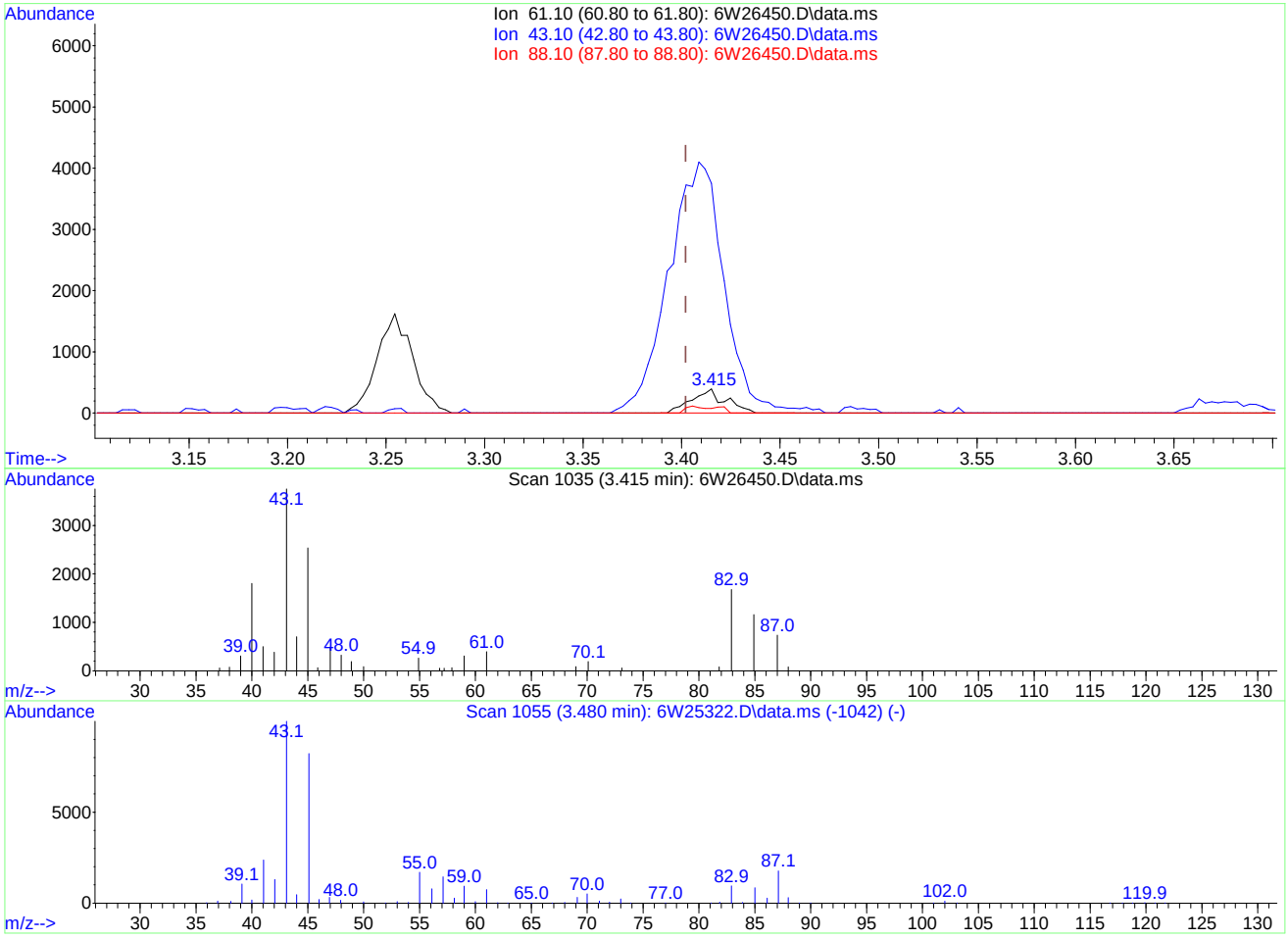
response 2040

| Ion | Exp% | Act% |
|---|---|---|
| 61.10 | 100 | 100 |
| 43.10 | 1232.70 | 0.00# |
| 88.10 | 48.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26450.D\data.ms

(44) ETHYL ACETATE (T)

3.415min (+0.013) 0.20PPBV m

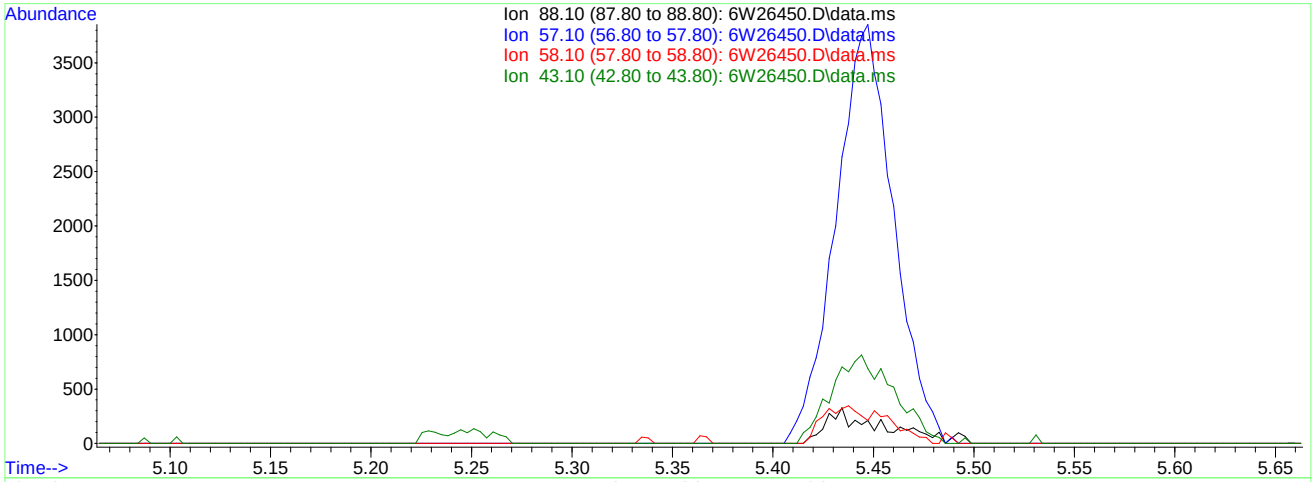
response 474

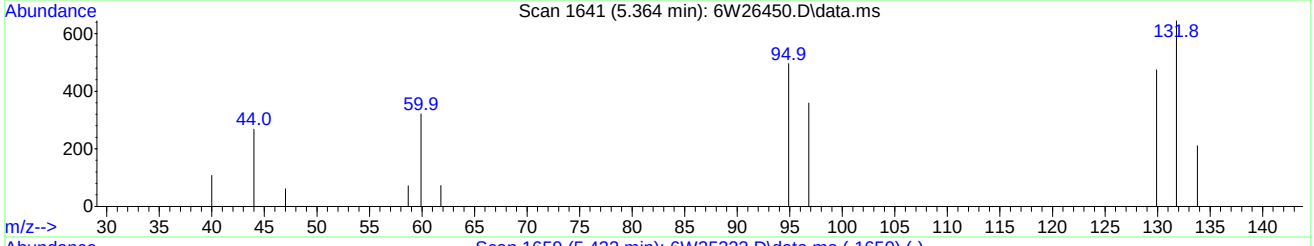
| Ion | Exp% | Act% |
|---|---|---|
| 61.10 | 100 | 100 |
| 43.10 | 1232.70 | 0.00# |
| 88.10 | 48.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |

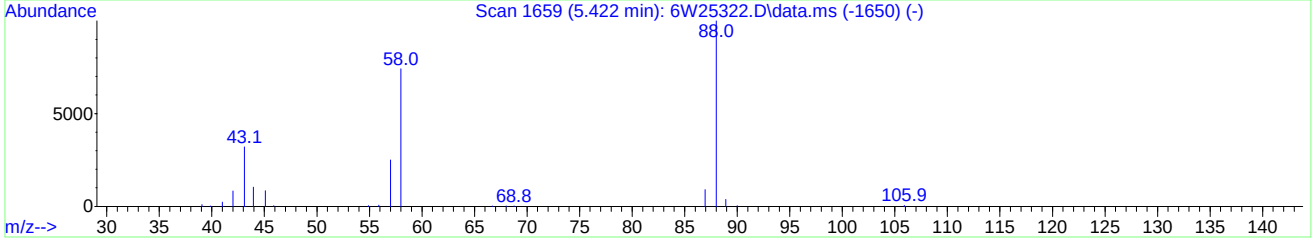
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26450.D\data.ms

(61) 1,4-DIOXANE (T)

5.364min (-5.364) 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 88.10 | 100 | 0.00 |
| 57.10 | 18.70 | 0.00# |
| 58.10 | 62.60 | 0.00# |
| 43.10 | 19.20 | 0.00# |



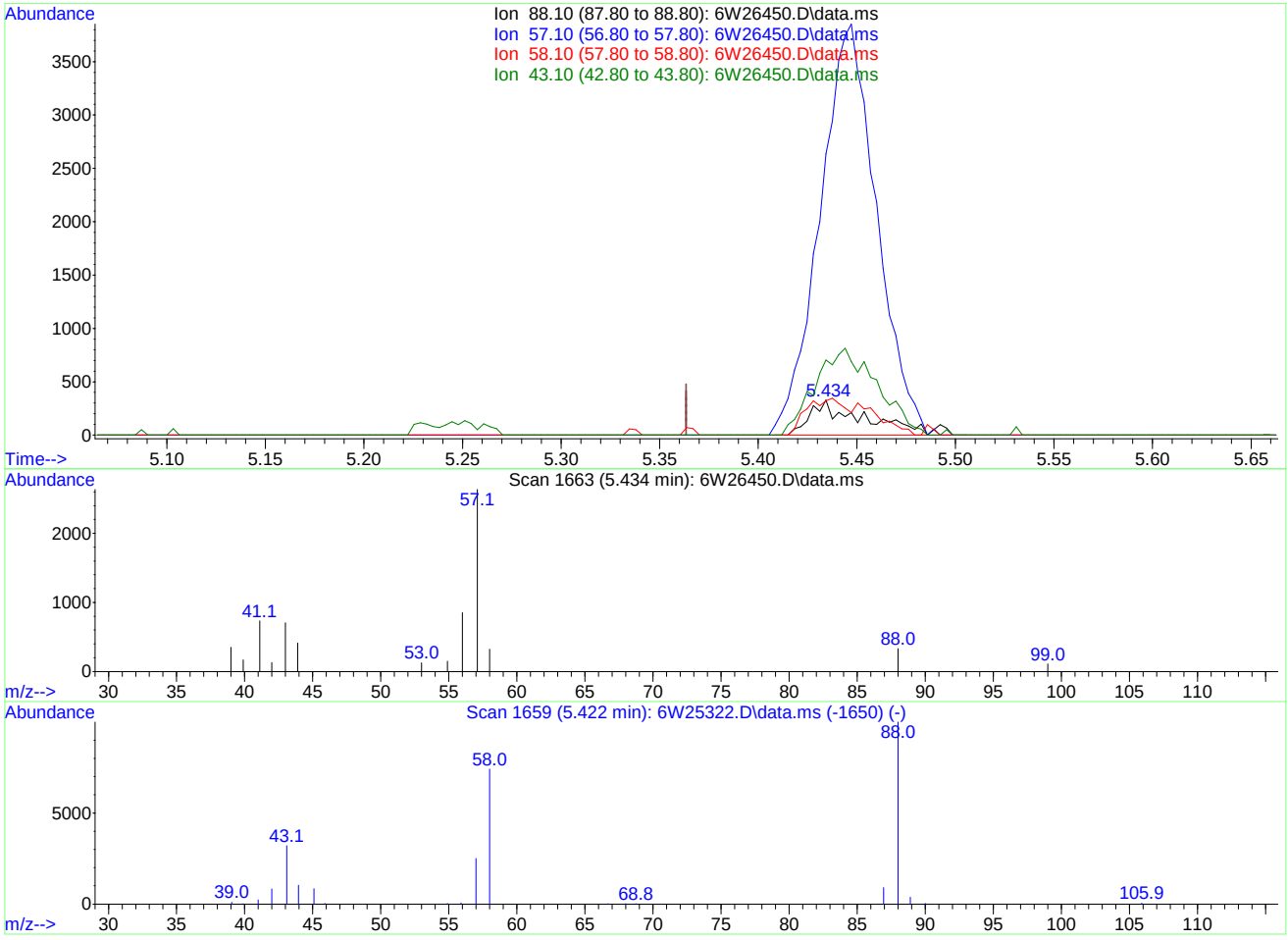


6W26450.D edits: 1,4-DIOXANE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26450.D\data.ms

(61) 1,4-DIOXANE (T)

5.434min (+0.071) 0.16PPBV m

response 650

| Ion | Exp% | Act% |
|---|---|---|
| 88.10 | 100 | 100 |
| 57.10 | 18.70 | 0.00# |
| 58.10 | 62.60 | 0.00# |
| 43.10 | 19.20 | 0.00# |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/20/22 12:15

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26451.D
Acq On : 19 Oct 2022 8:47 pm
Operator : thomash
Sample : ic1125-0.5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:25:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 43611 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.733 | 114 | 212847 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.588 | 117 | 201898 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.022 | 95 | 138007 | 9.66 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 2036 | 0.58 | PPBV | # | 76 |
| 4) CHLORODIFLUOROMETHANE | 1.708 | 67 | 916 | 0.57 | PPBV | # | 39 |
| 5) CHLOROTRIFLUOROETHENE | 1.714 | 116 | 4273 | 0.56 | PPBV | # | 98 |
| 6) DICHLORODIFLUOROMETHANE | 1.730 | 85 | 7321m | 0.55 | PPBV | | |
| 7) PROPYLENE | 1.714 | 41 | 3257 | 0.61 | PPBV | | 92 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 6430 | 0.55 | PPBV | # | 78 |
| 9) FREON 114 | 1.798 | 85 | 7336 | 0.56 | PPBV | | 94 |
| 10) CHLOROMETHANE | 1.769 | 52 | 1073 | 0.60 | PPBV | | 98 |
| 11) VINYL CHLORIDE | 1.830 | 62 | 3210 | 0.58 | PPBV | # | 91 |
| 12) 1,3-BUTADIENE | 1.862 | 54 | 2567 | 0.57 | PPBV | # | 68 |
| 13) N-BUTANE | 1.878 | 43 | 5494 | 0.59 | PPBV | # | 87 |
| 14) BROMOMETHANE | 1.933 | 94 | 2394 | 0.56 | PPBV | # | 93 |
| 15) CHLOROETHANE | 1.978 | 64 | 1513 | 0.56 | PPBV | # | 62 |
| 16) DICHLOROFLUOROMETHANE | 2.004 | 67 | 6298 | 0.56 | PPBV | # | 94 |
| 17) ACETONITRILE | 2.068 | 41 | 3448 | 0.61 | PPBV | # | 87 |
| 18) ACROLEIN | 2.100 | 56 | 1132 | 0.42 | PPBV | | 95 |
| 19) FREON 123 | 2.116 | 83 | 6000 | 0.57 | PPBV | | 96 |
| 20) FREON 123A | 2.129 | 117 | 3693 | 0.57 | PPBV | | 88 |
| 21) TRICHLOROFLUOROMETHANE | 2.190 | 101 | 7363 | 0.57 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.209 | 45 | 7092 | 0.58 | PPBV | # | 89 |
| 23) ACETONE | 2.142 | 58 | 2039 | 0.74 | PPBV | # | 45 |
| 24) PENTANE | 2.299 | 42 | 4085 | 0.61 | PPBV | # | 93 |
| 25) IODOMETHANE | 2.354 | 142 | 7193 | 0.57 | PPBV | # | 83 |
| 26) 1,1-DICHLOROETHYLENE | 2.383 | 96 | 2843 | 0.54 | PPBV | # | 55 |
| 27) CARBON DISULFIDE | 2.521 | 76 | 8911 | 0.54 | PPBV | # | 78 |
| 28) ETHANOL | 2.010 | 45 | 2191 | 0.80 | PPBV | # | 95 |
| 29) BROMOETHENE | 2.071 | 106 | 2565 | 0.57 | PPBV | # | 97 |
| 30) ACRYLONITRILE | 2.270 | 52 | 2722 | 0.62 | PPBV | | 90 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 3163 | 0.63 | PPBV | # | 35 |
| 32) 3-CHLOROPROPENE | 2.463 | 76 | 1418 | 0.54 | PPBV | # | 1 |
| 33) FREON 113 | 2.521 | 151 | 5014 | 0.53 | PPBV | | 90 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 3094 | 0.53 | PPBV | # | 74 |
| 35) TERTIARY BUTYL ALCOHOL | 2.402 | 59 | 6106 | 0.57 | PPBV | # | 88 |
| 36) METHYL TERTIARY BUTYL ... | 2.891 | 73 | 7692 | 0.53 | PPBV | # | 84 |
| 37) TETRAHYDROFURAN | 3.659 | 72 | 1425 | 0.54 | PPBV | # | 15 |
| 38) HEXANE | 3.389 | 57 | 6333 | 0.57 | PPBV | # | 74 |
| 39) VINYL ACETATE | 2.933 | 86 | 545 | 0.40 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.852 | 63 | 6085 | 0.55 | PPBV | | 97 |
| 41) METHYL ETHYL KETONE | 3.045 | 72 | 1427 | 0.51 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 3326 | 0.55 | PPBV | # | 82 |
| 43) DIISOPROPYL ETHER | 3.402 | 59 | 1703 | 0.53 | PPBV | # | 33 |
| 44) ETHYL ACETATE | 3.412 | 61 | 1201 | 0.55 | PPBV | # | 1 |
| 45) METHYL ACRYLATE | 3.393 | 55 | 7982 | 0.57 | PPBV | # | 98 |
| 46) CHLOROFORM | 3.418 | 83 | 6839 | 0.55 | PPBV | # | 92 |
| 47) 2,4-DIMETHYLPENTANE | 3.955 | 57 | 6927 | 0.53 | PPBV | # | 91 |
| 48) 1,1,1-TRICHLOROETHANE | 4.042 | 97 | 6432 | 0.53 | PPBV | # | 90 |
| 49) CARBON TETRACHLORIDE | 4.495 | 117 | 6798 | 0.50 | PPBV | | 98 |
| 50) 1,2-DICHLOROETHANE | 3.862 | 62 | 5168 | 0.55 | PPBV | # | 91 |
| 51) BENZENE | 4.376 | 78 | 9500 | 0.53 | PPBV | | 72 |
| 53) CYCLOHEXANE | 4.601 | 84 | 4074 | 0.53 | PPBV | # | 70 |
| 54) 2,3-DIMETHYLPENTANE | 4.868 | 71 | 2195 | 0.54 | PPBV | # | 42 |
| 55) TRICHLOROETHENE | 5.344 | 95 | 4586 | 0.56 | PPBV | | 98 |
| 56) 1,2-DICHLOROPROPANE | 5.100 | 63 | 4155 | 0.55 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.055 | 174 | 3857 | 0.51 | PPBV | # | 84 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26451.D
Acq On : 19 Oct 2022 8:47 pm
Operator : thomash
Sample : ic1125-0.5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:25:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

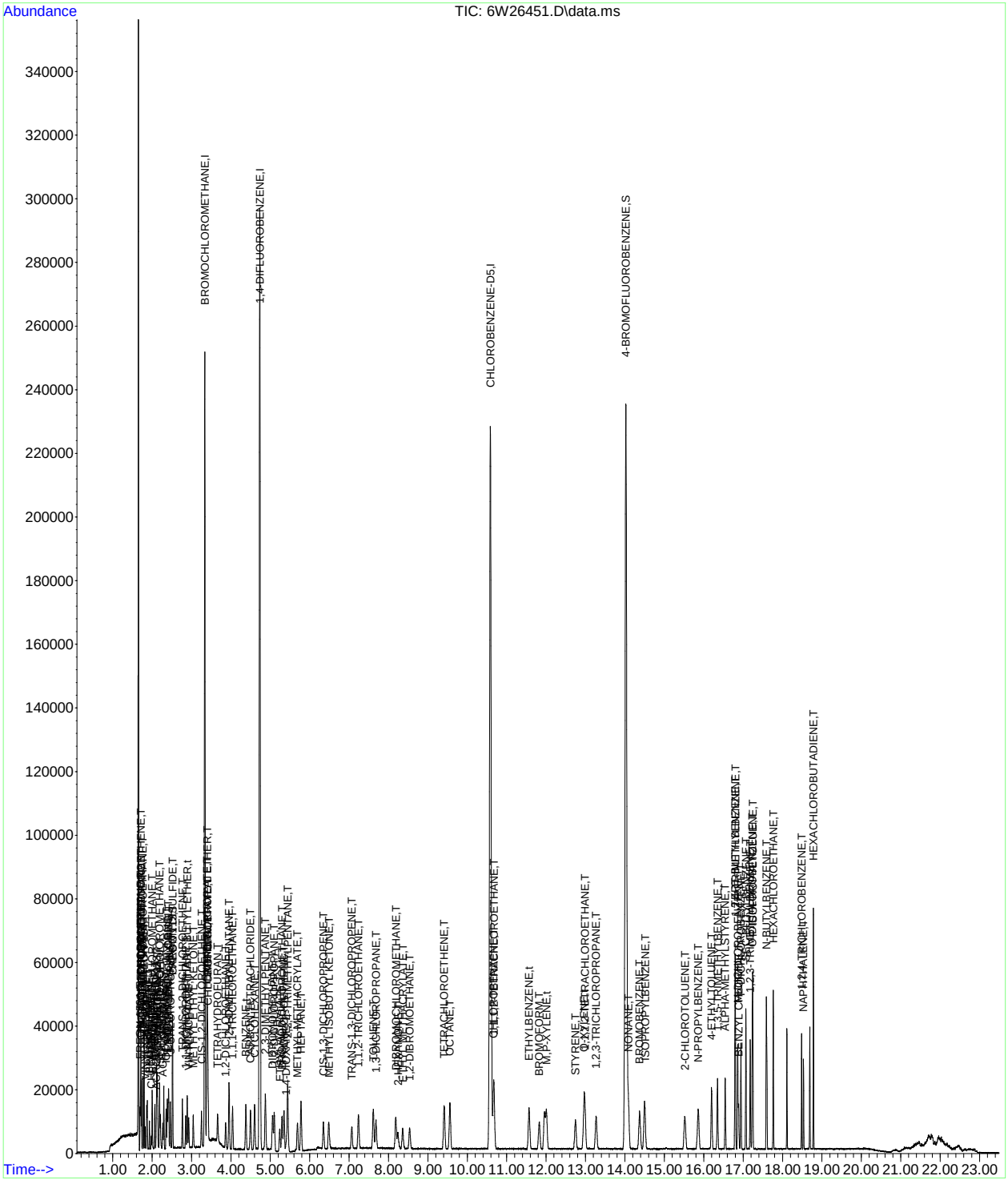
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.241 | 55 | 8223 | 0.51 | PPBV | # | 90 |
| 59) BROMODICHLOROMETHANE | 5.296 | 83 | 7543 | 0.55 | PPBV | | 100 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.441 | 57 | 18927 | 0.54 | PPBV | # | 98 |
| 61) 1,4-DIOXANE | 5.402 | 88 | 1827 | 0.50 | PPBV | # | 69 |
| 62) HEPTANE | 5.778 | 43 | 7366 | 0.54 | PPBV | # | 74 |
| 63) METHYL METHACRYLATE | 5.685 | 69 | 3392 | 0.50 | PPBV | # | 46 |
| 64) METHYL ISOBUTYL KETONE | 6.489 | 58 | 2555 | 0.42 | PPBV | # | 44 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.347 | 75 | 5324 | 0.53 | PPBV | # | 69 |
| 66) TOLUENE | 7.614 | 91 | 11850 | 0.55 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.685 | 76 | 5895 | 0.54 | PPBV | # | 97 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.064 | 75 | 4397 | 0.49 | PPBV | # | 70 |
| 69) 1,1,2-TRICHLOROETHANE | 7.238 | 83 | 3813 | 0.58 | PPBV | | 93 |
| 70) 2-HEXANONE | 8.241 | 58 | 2442 | 0.35 | PPBV | # | 39 |
| 71) ETHYL METHACRYLATE | 8.363 | 69 | 4486 | 0.42 | PPBV | # | 65 |
| 72) TETRACHLOROETHENE | 9.412 | 164 | 4552 | 0.55 | PPBV | | 92 |
| 73) DIBROMOCHLOROMETHANE | 8.187 | 129 | 7719 | 0.53 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.537 | 107 | 6461 | 0.54 | PPBV | # | 99 |
| 75) OCTANE | 9.553 | 43 | 9456 | 0.50 | PPBV | # | 71 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.675 | 131 | 5101 | 0.47 | PPBV | | 96 |
| 78) CHLOROBENZENE | 10.662 | 112 | 9881 | 0.50 | PPBV | | 98 |
| 79) ETHYLBENZENE | 11.563 | 91 | 14798 | 0.47 | PPBV | | 99 |
| 80) M,P-XYLENE | 12.010 | 91 | 22467m | 0.93 | PPBV | | |
| 81) O-XYLENE | 12.961 | 91 | 11051 | 0.45 | PPBV | # | 91 |
| 82) STYRENE | 12.736 | 104 | 7540 | 0.40 | PPBV | | 97 |
| 83) NONANE | 14.090 | 43 | 11183 | 0.51 | PPBV | # | 71 |
| 84) BROMOFORM | 11.823 | 173 | 6708 | 0.47 | PPBV | # | 90 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.984 | 83 | 9811 | 0.53 | PPBV | | 98 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.267 | 75 | 7550 | 0.53 | PPBV | | 97 |
| 88) ISOPROPYLBENZENE | 14.511 | 105 | 16923 | 0.47 | PPBV | | 94 |
| 89) BROMOBENZENE | 14.373 | 77 | 8531 | 0.49 | PPBV | | 97 |
| 90) 2-CHLOROTOLUENE | 15.524 | 91 | 10727 | 0.43 | PPBV | | 98 |
| 91) N-PROPYLBENZENE | 15.858 | 91 | 17614 | 0.41 | PPBV | # | 96 |
| 92) 4-ETHYLTOLUENE | 16.196 | 105 | 13852 | 0.38 | PPBV | # | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.350 | 105 | 11943 | 0.40 | PPBV | | 97 |
| 94) ALPHA-METHYLSTYRENE | 16.543 | 118 | 5514 | 0.37 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.797 | 119 | 13389 | 0.40 | PPBV | | 94 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.800 | 105 | 12326 | 0.40 | PPBV | | 97 |
| 97) BENZYL CHLORIDE | 16.887 | 91 | 6681 | 0.38 | PPBV | | 96 |
| 98) M-DICHLOROBENZENE | 16.865 | 146 | 9596 | 0.47 | PPBV | | 97 |
| 99) P-DICHLOROBENZENE | 16.942 | 146 | 9486 | 0.47 | PPBV | | 98 |
| 100) O-DICHLOROBENZENE | 17.234 | 146 | 9520 | 0.49 | PPBV | | 98 |
| 101) SEC-BUTYLBENZENE | 17.070 | 105 | 19173 | 0.42 | PPBV | | 97 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.180 | 105 | 12666 | 0.42 | PPBV | # | 96 |
| 103) P-ISOPROPYLTOLUENE | 17.244 | 119 | 16473 | 0.41 | PPBV | | 95 |
| 104) N-BUTYLBENZENE | 17.588 | 91 | 13519 | 0.37 | PPBV | | 98 |
| 105) HEXACHLOROETHANE | 17.765 | 117 | 5837 | 0.46 | PPBV | # | 87 |
| 106) HEXACHLOROBUTADIENE | 18.784 | 225 | 6322 | 0.46 | PPBV | | 100 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.485 | 180 | 5667 | 0.36 | PPBV | | 99 |
| 108) NAPHTHALENE | 18.530 | 128 | 12011 | 0.30 | PPBV | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26451.D
Acq On : 19 Oct 2022 8:47 pm
Operator : thomash
Sample : ic1125-0.5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:25:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



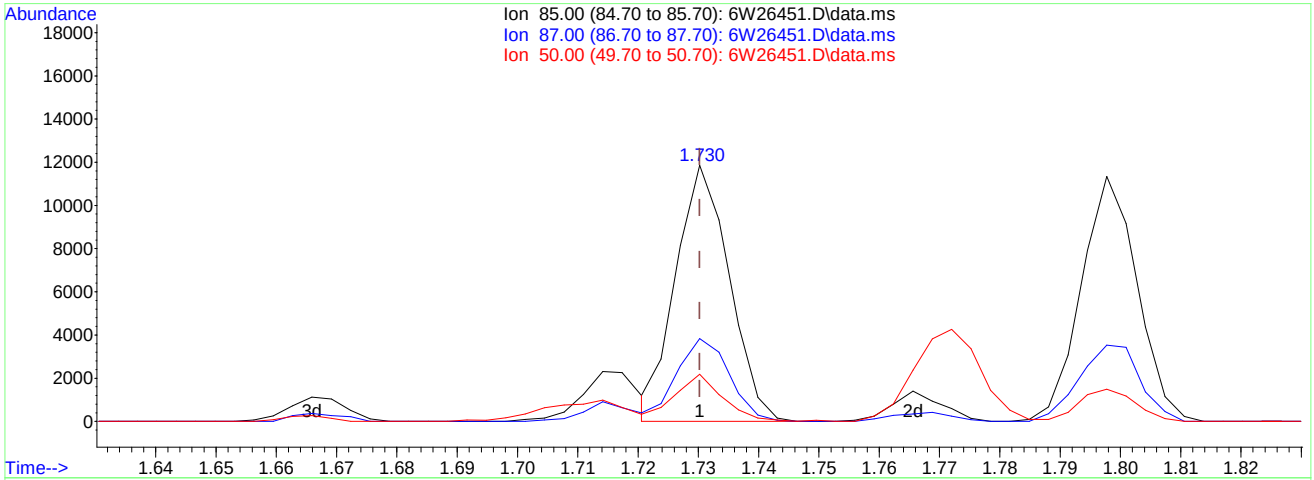
**Sample Number:** V6W1125-IC1125 **Method:** TO-15
**Lab FileID:** 6W26451.D **Analyst approved:** 10/20/22 10:04 Thomas Hilbig
**Injection Time:** 10/19/22 20:47 **Supervisor approved:** 10/20/22 12:15 Kanya Veerawat

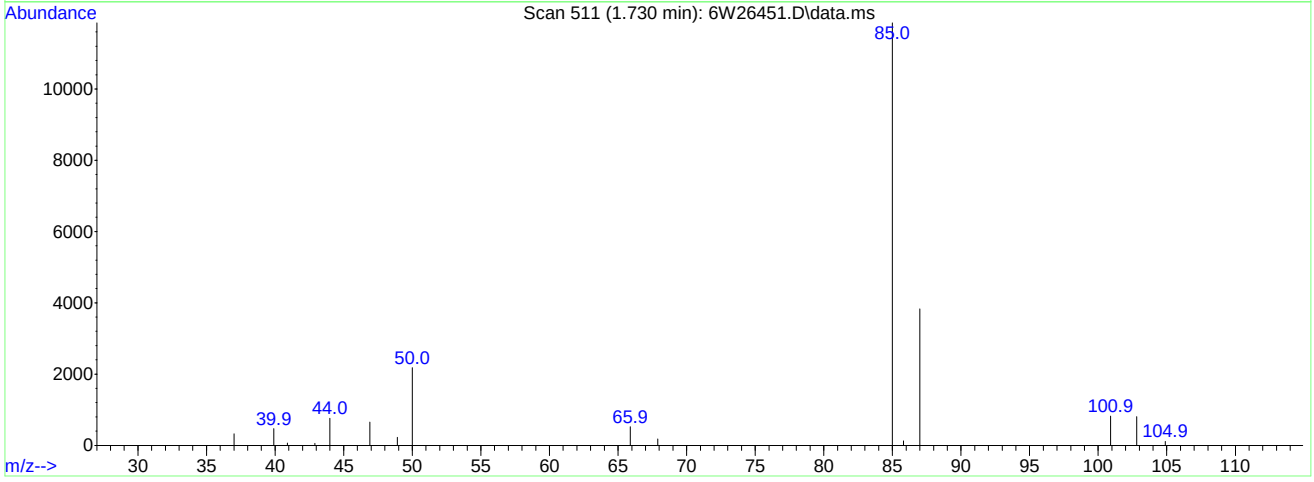
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.73 | Overlapping peak |
| m,p-Xylene | | | 12.01 | Split peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26451.D
Acq On : 19 Oct 2022 8:47 pm
Operator : thomash
Sample : ic1125-0.5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:23:56 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26451.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (0.000) 0.55PPBV m

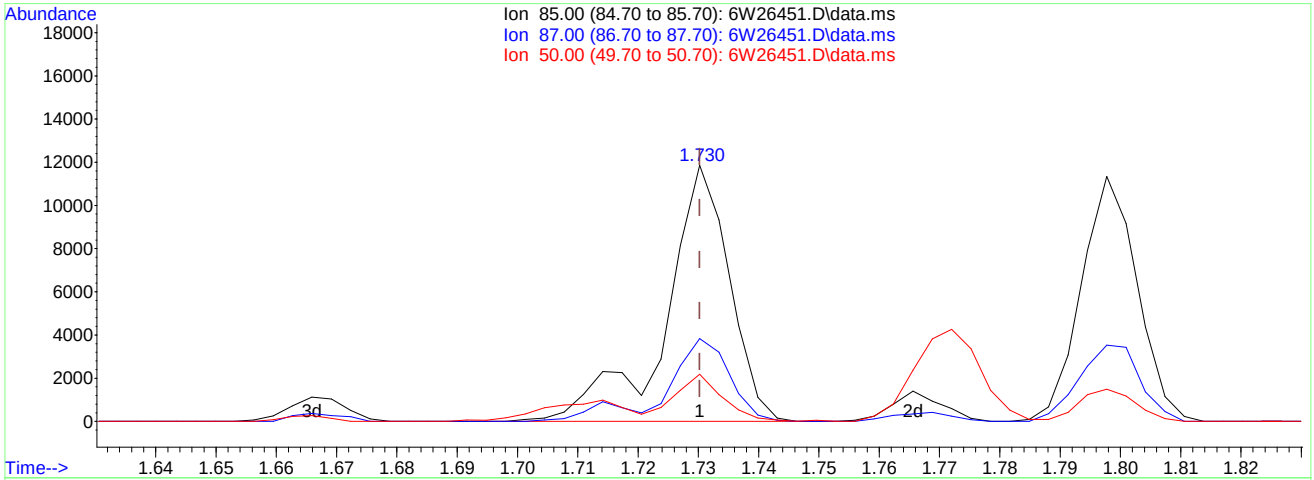
response 7321

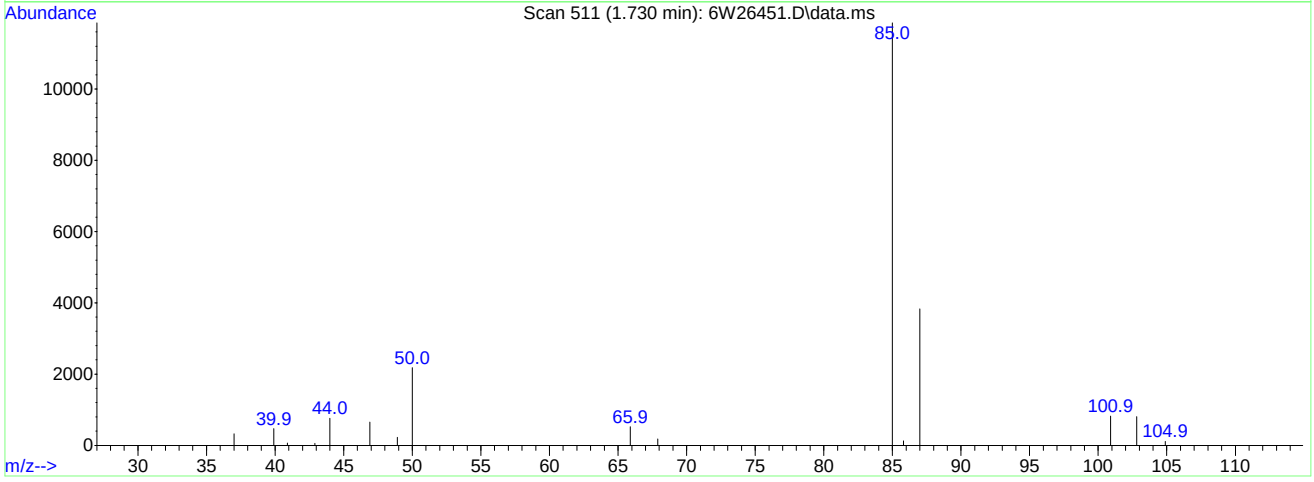
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 38.64# |
| 50.00 | 9.30 | 29.12# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26451.D
Acq On : 19 Oct 2022 8:47 pm
Operator : thomash
Sample : ic1125-0.5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:23:56 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26451.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (0.000) 0.67PPBV

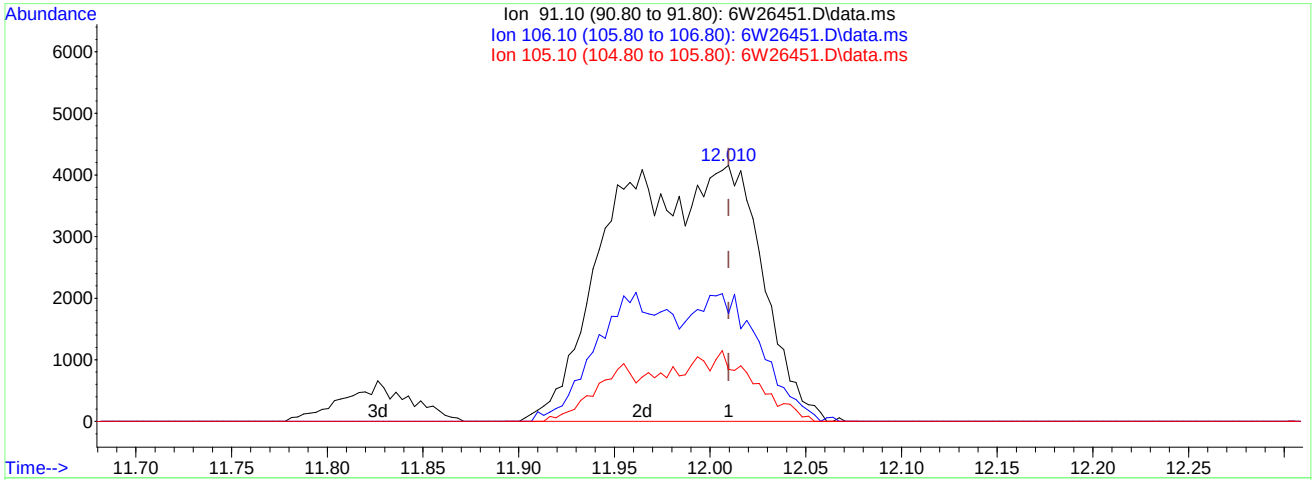
response 8806

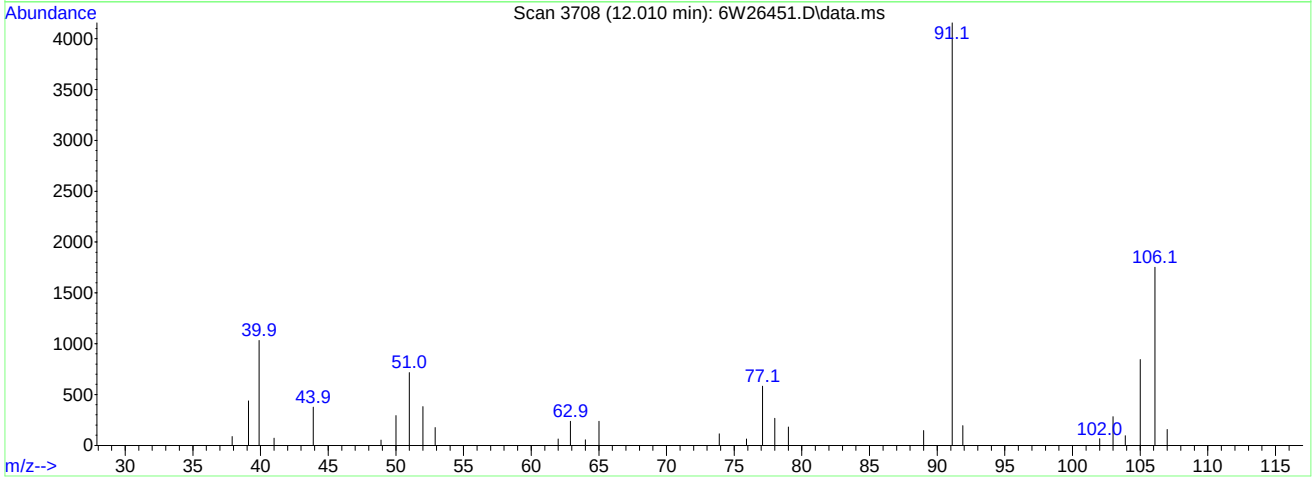
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.13 |
| 50.00 | 9.30 | 24.21# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26451.D
Acq On : 19 Oct 2022 8:47 pm
Operator : thomash
Sample : ic1125-0.5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:23:56 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26451.D\data.ms

(80) M,P-XYLENE (t)

12.010min (0.000) 0.93PPBV m

response 22467

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 22.10# |
| 105.10 | 23.60 | 16.03 |
| 0.00 | 0.00 | 0.00 |





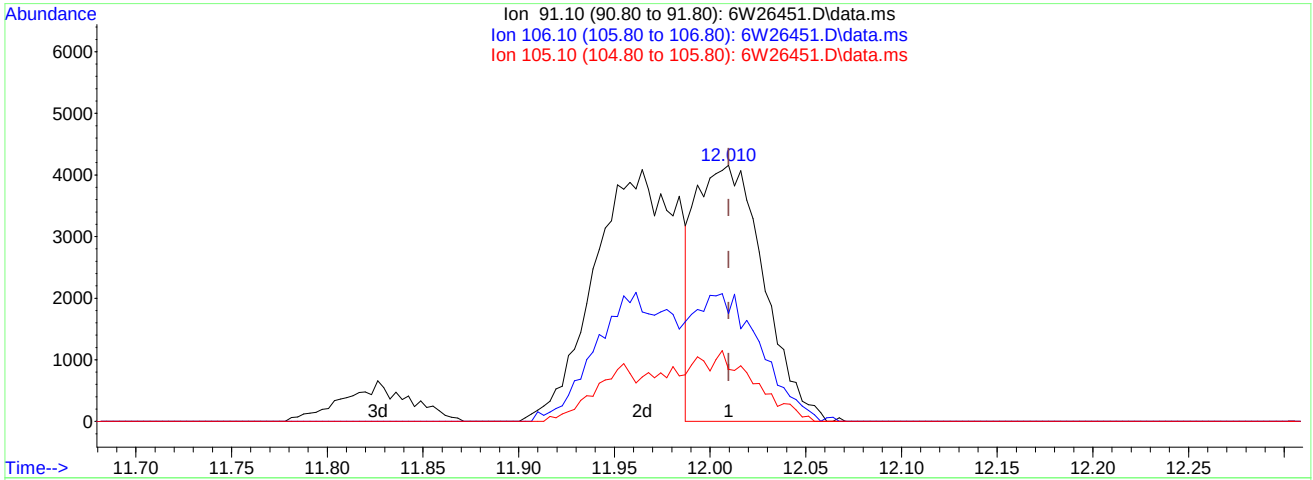


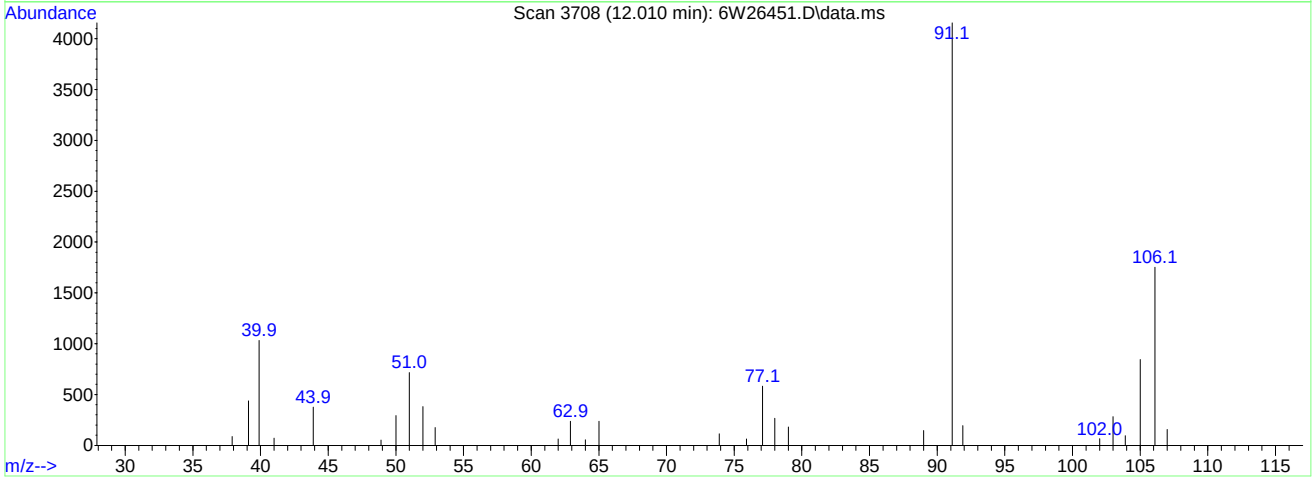
6W26451.D edits: M,P-XYLENE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W26451.D
Acq On : 19 Oct 2022 8:47 pm
Operator : thomash
Sample : ic1125-0.5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 10:02:04 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26451.D\data.ms

(80) M,P-XYLENE (t)

12.010min (0.000) 0.40PPBV

response 10308

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 48.18 |
| 105.10 | 23.60 | 34.93 |
| 0.00 | 0.00 | 0.00 |







6W26451.D edits: M,P-XYLENE

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/20/22 12:15

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26453.D
Acq On : 19 Oct 2022 9:52 pm
Operator : thomash
Sample : ic1125-5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 08:28:12 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:27:42 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 48052 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.733 | 114 | 238668 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 209355 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.022 | 95 | 146090 | 10.19 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 19907 | 2.65 | PPBV | # | 74 |
| 4) CHLORODIFLUOROMETHANE | 1.705 | 67 | 9181 | 4.69 | PPBV | | 97 |
| 5) CHLOROTRIFLUOROETHENE | 1.714 | 116 | 43331 | 4.64 | PPBV | # | 99 |
| 6) DICHLORODIFLUOROMETHANE | 1.730 | 85 | 73368m | 4.83 | PPBV | | |
| 7) PROPYLENE | 1.714 | 41 | 29308 | 4.61 | PPBV | | 96 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 65971 | 4.79 | PPBV | # | 85 |
| 9) FREON 114 | 1.798 | 85 | 72621 | 4.52 | PPBV | | 97 |
| 10) CHLOROMETHANE | 1.772 | 52 | 10071 | 4.38 | PPBV | | 91 |
| 11) VINYL CHLORIDE | 1.827 | 62 | 30710 | 4.48 | PPBV | | 97 |
| 12) 1,3-BUTADIENE | 1.865 | 54 | 25561 | 4.68 | PPBV | # | 68 |
| 13) N-BUTANE | 1.878 | 43 | 53529 | 3.91 | PPBV | # | 91 |
| 14) BROMOMETHANE | 1.933 | 94 | 24626 | 4.79 | PPBV | | 97 |
| 15) CHLOROETHANE | 1.978 | 64 | 15370 | 4.88 | PPBV | | 92 |
| 16) DICHLOROFLUOROMETHANE | 2.000 | 67 | 63935 | 4.76 | PPBV | # | 94 |
| 17) ACETONITRILE | 2.065 | 41 | 32753 | 4.23 | PPBV | | 96 |
| 18) ACROLEIN | 2.100 | 56 | 15089 | 6.24 | PPBV | | 100 |
| 19) FREON 123 | 2.116 | 83 | 58941 | 4.60 | PPBV | | 94 |
| 20) FREON 123A | 2.132 | 117 | 36017 | 4.72 | PPBV | | 85 |
| 21) TRICHLOROFLUOROMETHANE | 2.190 | 101 | 81701 | 5.19 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.209 | 45 | 70608 | 4.14 | PPBV | # | 93 |
| 23) ACETONE | 2.139 | 58 | 14329 | 3.22 | PPBV | # | 20 |
| 24) PENTANE | 2.299 | 42 | 42306 | 4.65 | PPBV | # | 93 |
| 25) IODOMETHANE | 2.357 | 142 | 81476 | 5.47 | PPBV | # | 85 |
| 26) 1,1-DICHLOROETHYLENE | 2.383 | 96 | 30944 | 5.07 | PPBV | # | 60 |
| 27) CARBON DISULFIDE | 2.521 | 76 | 94990 | 4.99 | PPBV | # | 88 |
| 28) ETHANOL | 2.007 | 45 | 15267 | 3.22 | PPBV | # | 96 |
| 29) BROMOETHENE | 2.071 | 106 | 24699 | 4.53 | PPBV | # | 95 |
| 30) ACRYLONITRILE | 2.274 | 52 | 27837 | 5.11 | PPBV | | 95 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 29001 | 3.93 | PPBV | # | 51 |
| 32) 3-CHLOROPROPENE | 2.463 | 76 | 14916 | 1.84 | PPBV | # | 1 |
| 33) FREON 113 | 2.521 | 151 | 54753 | 5.18 | PPBV | | 91 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 33613 | 4.97 | PPBV | # | 81 |
| 35) TERTIARY BUTYL ALCOHOL | 2.396 | 59 | 57315 | 4.48 | PPBV | # | 93 |
| 36) METHYL TERTIARY BUTYL ... | 2.888 | 73 | 78884 | 4.91 | PPBV | # | 92 |
| 37) TETRAHYDROFURAN | 3.653 | 72 | 15076 | 5.13 | PPBV | # | 44 |
| 38) HEXANE | 3.396 | 57 | 63277 | 4.85 | PPBV | # | 77 |
| 39) VINYL ACETATE | 2.930 | 86 | 7142 | 4.83 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.852 | 63 | 63853 | 5.02 | PPBV | | 98 |
| 41) METHYL ETHYL KETONE | 3.036 | 72 | 15342 | 4.76 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 34169 | 4.70 | PPBV | # | 80 |
| 43) DIISOPROPYL ETHER | 3.396 | 59 | 18288 | 5.08 | PPBV | # | 51 |
| 44) ETHYL ACETATE | 3.402 | 61 | 12164 | 4.77 | PPBV | # | 13 |
| 45) METHYL ACRYLATE | 3.389 | 55 | 77002 | 4.95 | PPBV | # | 98 |
| 46) CHLOROFORM | 3.418 | 83 | 70989 | 4.91 | PPBV | # | 93 |
| 47) 2,4-DIMETHYLPENTANE | 3.958 | 57 | 72717 | 5.13 | PPBV | | 92 |
| 48) 1,1,1-TRICHLOROETHANE | 4.045 | 97 | 67185 | 4.77 | PPBV | # | 90 |
| 49) CARBON TETRACHLORIDE | 4.502 | 117 | 74873 | 5.21 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 3.868 | 62 | 53248 | 4.79 | PPBV | # | 94 |
| 51) BENZENE | 4.383 | 78 | 101339 | 4.56 | PPBV | | 79 |
| 53) CYCLOHEXANE | 4.605 | 84 | 42608 | 4.92 | PPBV | # | 73 |
| 54) 2,3-DIMETHYLPENTANE | 4.881 | 71 | 23101 | 4.70 | PPBV | # | 54 |
| 55) TRICHLOROETHENE | 5.347 | 95 | 47636 | 5.11 | PPBV | | 98 |
| 56) 1,2-DICHLOROPROPANE | 5.100 | 63 | 43029 | 4.96 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.058 | 174 | 42656 | 4.61 | PPBV | | 90 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26453.D
Acq On : 19 Oct 2022 9:52 pm
Operator : thomash
Sample : ic1125-5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 08:28:12 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:27:42 2022
Response via : Initial Calibration

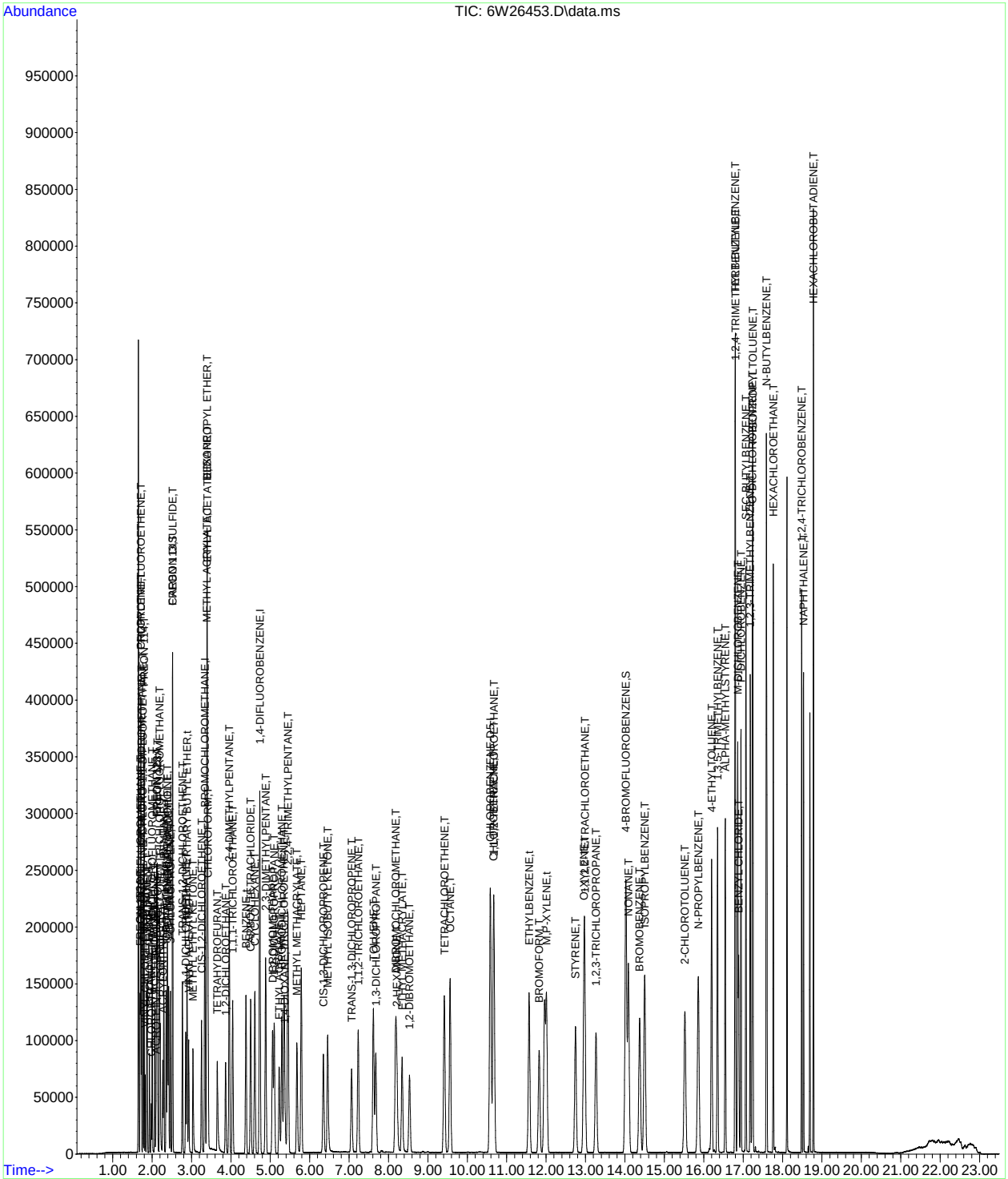
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.225 | 55 | 89611 | 5.35 | PPBV | # | 96 |
| 59) BROMODICHLOROMETHANE | 5.293 | 83 | 78333 | 4.91 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.447 | 57 | 200710 | 5.17 | PPBV | # | 98 |
| 61) 1,4-DIOXANE | 5.370 | 88 | 19670 | 5.29 | PPBV | # | 85 |
| 62) HEPTANE | 5.785 | 43 | 79722 | 4.98 | PPBV | # | 73 |
| 63) METHYL METHACRYLATE | 5.675 | 69 | 37067 | 5.13 | PPBV | # | 50 |
| 64) METHYL ISOBUTYL KETONE | 6.457 | 58 | 33688 | 6.44 | PPBV | # | 62 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.347 | 75 | 55063 | 5.09 | PPBV | # | 71 |
| 66) TOLUENE | 7.617 | 91 | 120813 | 4.27 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.679 | 76 | 63315 | 5.00 | PPBV | | 99 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.064 | 75 | 47715 | 5.28 | PPBV | # | 74 |
| 69) 1,1,2-TRICHLOROETHANE | 7.235 | 83 | 37548 | 4.92 | PPBV | | 98 |
| 70) 2-HEXANONE | 8.212 | 58 | 34192 | 6.90 | PPBV | # | 56 |
| 71) ETHYL METHACRYLATE | 8.347 | 69 | 57397 | 6.27 | PPBV | # | 69 |
| 72) TETRACHLOROETHENE | 9.421 | 164 | 46844 | 5.43 | PPBV | | 92 |
| 73) DIBROMOCHLOROMETHANE | 8.180 | 129 | 82147 | 5.28 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.531 | 107 | 67572 | 4.93 | PPBV | | 99 |
| 75) OCTANE | 9.566 | 43 | 105512 | 5.23 | PPBV | # | 74 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.675 | 131 | 55973 | 5.11 | PPBV | | 97 |
| 78) CHLOROBENZENE | 10.662 | 112 | 102291 | 5.19 | PPBV | | 100 |
| 79) ETHYLBENZENE | 11.569 | 91 | 159993 | 4.02 | PPBV | | 99 |
| 80) M,P-XYLENE | 12.006 | 91 | 250224 | 8.76 | PPBV | # | 68 |
| 81) O-XYLENE | 12.958 | 91 | 126171 | 4.45 | PPBV | | 99 |
| 82) STYRENE | 12.746 | 104 | 92962 | 5.89 | PPBV | | 97 |
| 83) NONANE | 14.087 | 43 | 115009 | 4.89 | PPBV | # | 75 |
| 84) BROMOFORM | 11.823 | 173 | 72574 | 5.21 | PPBV | # | 97 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.981 | 83 | 96502 | 5.13 | PPBV | | 98 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.264 | 75 | 75375 | 5.14 | PPBV | | 99 |
| 88) ISOPROPYLBENZENE | 14.501 | 105 | 185523 | 5.20 | PPBV | # | 94 |
| 89) BROMOBENZENE | 14.373 | 77 | 90723 | 5.29 | PPBV | | 96 |
| 90) 2-CHLOROTOLUENE | 15.521 | 91 | 127993 | 5.96 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.861 | 91 | 218987 | 6.23 | PPBV | # | 97 |
| 92) 4-ETHYLTOLUENE | 16.199 | 105 | 184676 | 7.07 | PPBV | | 100 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.350 | 105 | 152452 | 6.64 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.546 | 118 | 75375 | 7.02 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.797 | 119 | 171850 | 6.68 | PPBV | | 98 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.804 | 105 | 160966 | 6.93 | PPBV | | 95 |
| 97) BENZYL CHLORIDE | 16.887 | 91 | 79996 | 6.95 | PPBV | | 98 |
| 98) M-DICHLOROBENZENE | 16.861 | 146 | 105031 | 5.93 | PPBV | | 98 |
| 99) P-DICHLOROBENZENE | 16.945 | 146 | 104393 | 5.98 | PPBV | | 98 |
| 100) O-DICHLOROBENZENE | 17.234 | 146 | 102199 | 5.87 | PPBV | | 99 |
| 101) SEC-BUTYLBENZENE | 17.070 | 105 | 234846 | 6.67 | PPBV | | 99 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.180 | 105 | 154554 | 6.70 | PPBV | | 99 |
| 103) P-ISOPROPYLTOLUENE | 17.247 | 119 | 201910 | 6.93 | PPBV | | 97 |
| 104) N-BUTYLBENZENE | 17.588 | 91 | 185283 | 7.89 | PPBV | | 98 |
| 105) HEXACHLOROETHANE | 17.765 | 117 | 63914 | 5.17 | PPBV | # | 88 |
| 106) HEXACHLOROBUTADIENE | 18.784 | 225 | 68032 | 5.57 | PPBV | | 100 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.485 | 180 | 72353 | 7.80 | PPBV | | 97 |
| 108) NAPHTHALENE | 18.533 | 128 | 175017 | 9.54 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26453.D
Acq On : 19 Oct 2022 9:52 pm
Operator : thomash
Sample : ic1125-5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 08:28:12 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:27:42 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



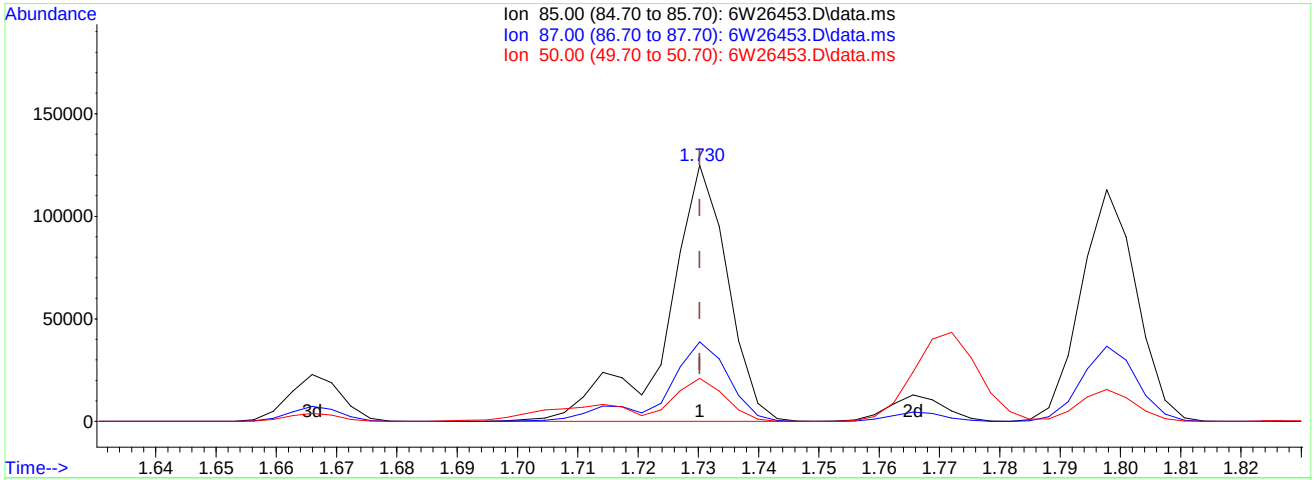
| | | | |
|---|---|---|---|
| **Sample Number:** | V6W1125-IC1125 | **Method:** | TO-15 |
| **Lab FileID:** | 6W26453.D | **Analyst approved:** | 10/20/22 10:04 Thomas Hilbig |
| **Injection Time:** | 10/19/22 21:52 | **Supervisor approved:** | 10/20/22 12:15 Kanya Veerawat |

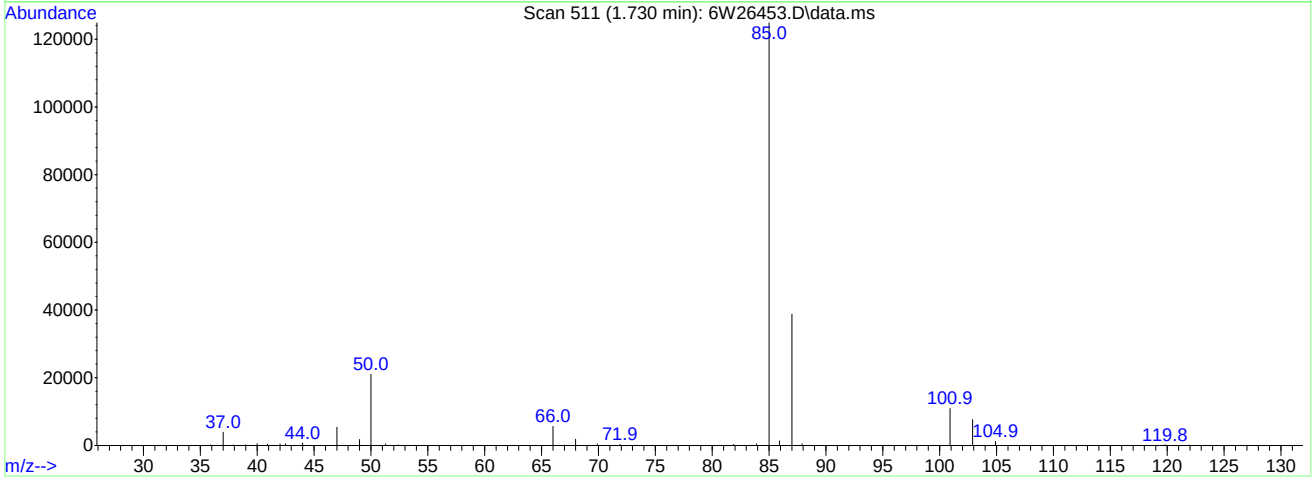
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.73 | Overlapping peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26453.D
Acq On : 19 Oct 2022 9:52 pm
Operator : thomash
Sample : ic1125-5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 08:27:56 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:27:42 2022
Response via : Initial Calibration




TIC: 6W26453.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (+0.000) 5.81PPBV

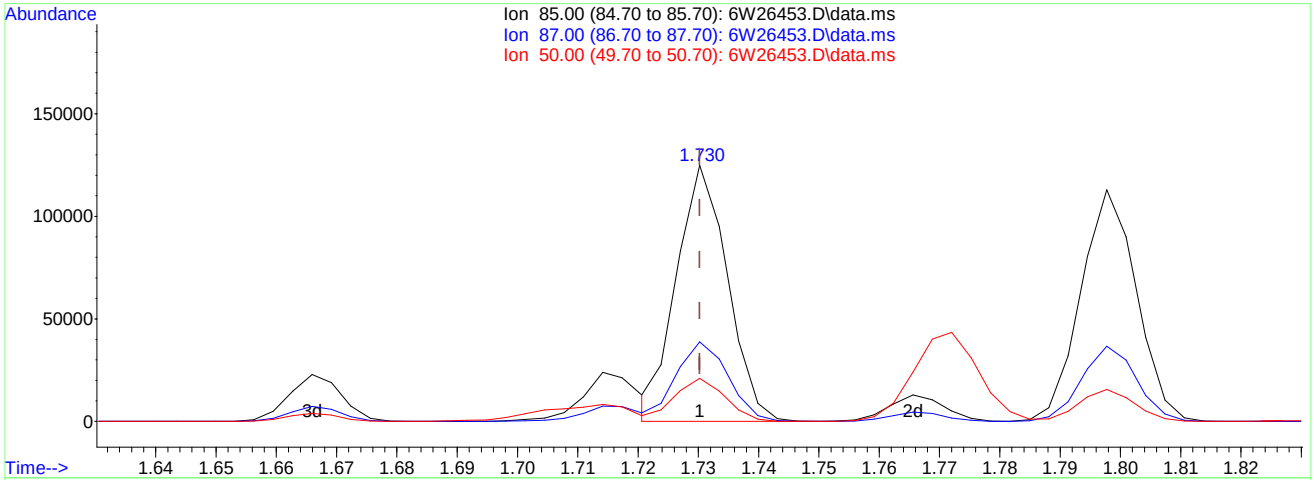
response 88251

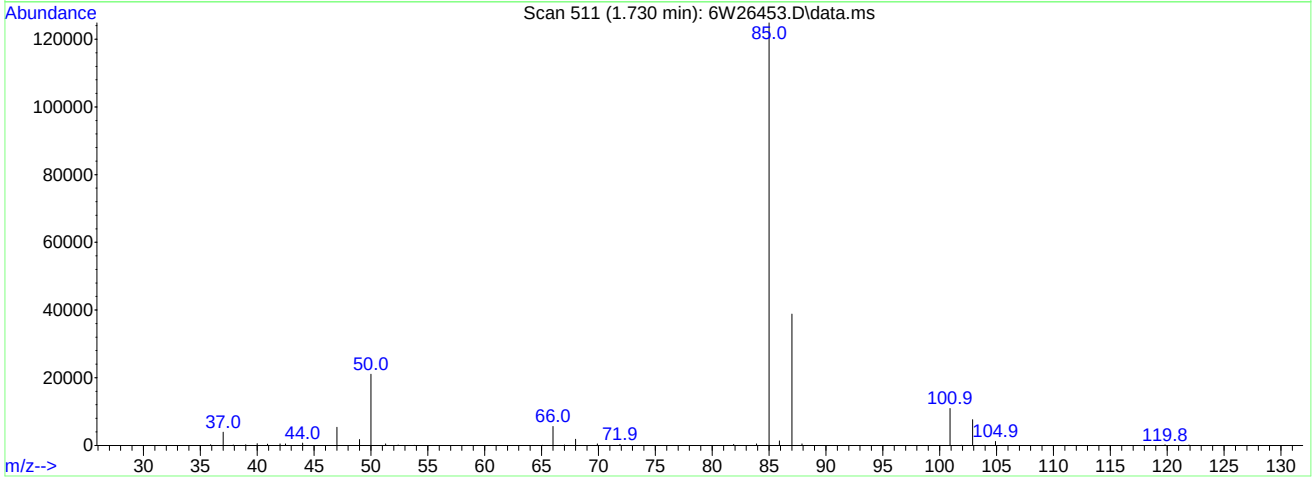
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 31.94 |
| 50.00 | 9.30 | 23.58# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26453.D
Acq On : 19 Oct 2022 9:52 pm
Operator : thomash
Sample : ic1125-5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 08:27:56 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:27:42 2022
Response via : Initial Calibration




TIC: 6W26453.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (+0.000) 4.83PPBV m

response 73368

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 38.42 |
| 50.00 | 9.30 | 28.36# |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/20/22 12:15

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26454.D
Acq On : 19 Oct 2022 10:25 pm
Operator : thomash
Sample : icc1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:46:44 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 50236 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.733 | 114 | 248131 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.588 | 117 | 216051 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.019 | 95 | 152864 | 10.00 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 40766 | 10.00 | PPBV | # | 76 |
| 4) CHLORODIFLUOROMETHANE | 1.708 | 67 | 18586 | 10.00 | PPBV | | 97 |
| 5) CHLOROTRIFLUOROETHENE | 1.717 | 116 | 88306 | 10.00 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.730 | 85 | 152018m | 10.00 | PPBV | | |
| 7) PROPYLENE | 1.714 | 41 | 61296 | 10.00 | PPBV | | 96 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 135235 | 10.00 | PPBV | # | 86 |
| 9) FREON 114 | 1.798 | 85 | 152030 | 10.00 | PPBV | | 97 |
| 10) CHLOROMETHANE | 1.772 | 52 | 20678 | 10.00 | PPBV | | 93 |
| 11) VINYL CHLORIDE | 1.830 | 62 | 63489 | 10.00 | PPBV | | 96 |
| 12) 1,3-BUTADIENE | 1.865 | 54 | 52245 | 10.00 | PPBV | # | 72 |
| 13) N-BUTANE | 1.878 | 43 | 107971 | 10.00 | PPBV | # | 90 |
| 14) BROMOMETHANE | 1.933 | 94 | 49482 | 10.00 | PPBV | | 98 |
| 15) CHLOROETHANE | 1.978 | 64 | 31300 | 10.00 | PPBV | | 93 |
| 16) DICHLOROFLUOROMETHANE | 2.004 | 67 | 129761 | 10.00 | PPBV | # | 95 |
| 17) ACETONITRILE | 2.065 | 41 | 65598 | 10.00 | PPBV | | 96 |
| 18) ACROLEIN | 2.100 | 56 | 30940 | 10.00 | PPBV | | 99 |
| 19) FREON 123 | 2.116 | 83 | 121214 | 10.00 | PPBV | | 95 |
| 20) FREON 123A | 2.132 | 117 | 74375 | 10.00 | PPBV | | 86 |
| 21) TRICHLOROFLUOROMETHANE | 2.190 | 101 | 148677 | 10.00 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.206 | 45 | 141893 | 10.00 | PPBV | # | 95 |
| 23) ACETONE | 2.139 | 58 | 31578 | 10.00 | PPBV | # | 21 |
| 24) PENTANE | 2.299 | 42 | 77159 | 10.00 | PPBV | # | 93 |
| 25) IODOMETHANE | 2.357 | 142 | 145923 | 10.00 | PPBV | # | 84 |
| 26) 1,1-DICHLOROETHYLENE | 2.383 | 96 | 60120 | 10.00 | PPBV | # | 57 |
| 27) CARBON DISULFIDE | 2.521 | 76 | 189741 | 10.00 | PPBV | # | 88 |
| 28) ETHANOL | 2.007 | 45 | 31409 | 10.00 | PPBV | # | 95 |
| 29) BROMOETHENE | 2.074 | 106 | 51820 | 10.00 | PPBV | # | 98 |
| 30) ACRYLONITRILE | 2.270 | 52 | 50315 | 10.00 | PPBV | | 95 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 57394 | 10.00 | PPBV | # | 53 |
| 32) 3-CHLOROPROPENE | 2.463 | 76 | 30196 | 10.00 | PPBV | # | 1 |
| 33) FREON 113 | 2.521 | 151 | 109383 | 10.00 | PPBV | | 91 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 67461 | 10.00 | PPBV | # | 80 |
| 35) TERTIARY BUTYL ALCOHOL | 2.396 | 59 | 122603 | 10.00 | PPBV | # | 96 |
| 36) METHYL TERTIARY BUTYL ... | 2.888 | 73 | 165919 | 10.00 | PPBV | # | 92 |
| 37) TETRAHYDROFURAN | 3.653 | 72 | 30407 | 10.00 | PPBV | # | 39 |
| 38) HEXANE | 3.396 | 57 | 128093 | 10.00 | PPBV | # | 77 |
| 39) VINYL ACETATE | 2.933 | 86 | 15763 | 10.00 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.852 | 63 | 127587 | 10.00 | PPBV | | 98 |
| 41) METHYL ETHYL KETONE | 3.036 | 72 | 32369 | 10.00 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 69388 | 10.00 | PPBV | # | 80 |
| 43) DIISOPROPYL ETHER | 3.396 | 59 | 37294 | 10.00 | PPBV | # | 48 |
| 44) ETHYL ACETATE | 3.402 | 61 | 25284 | 10.00 | PPBV | # | 17 |
| 45) METHYL ACRYLATE | 3.389 | 55 | 160871 | 10.00 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.421 | 83 | 144284 | 10.00 | PPBV | # | 93 |
| 47) 2,4-DIMETHYLPENTANE | 3.958 | 57 | 149307 | 10.00 | PPBV | # | 93 |
| 48) 1,1,1-TRICHLOROETHANE | 4.045 | 97 | 139532 | 10.00 | PPBV | # | 93 |
| 49) CARBON TETRACHLORIDE | 4.505 | 117 | 155756 | 10.00 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.868 | 62 | 108219 | 10.00 | PPBV | # | 94 |
| 51) BENZENE | 4.383 | 78 | 206141 | 10.00 | PPBV | | 79 |
| 53) CYCLOHEXANE | 4.608 | 84 | 89028 | 10.00 | PPBV | # | 75 |
| 54) 2,3-DIMETHYLPENTANE | 4.884 | 71 | 47700 | 10.00 | PPBV | # | 54 |
| 55) TRICHLOROETHENE | 5.351 | 95 | 95859 | 10.00 | PPBV | | 97 |
| 56) 1,2-DICHLOROPROPANE | 5.100 | 63 | 87652 | 10.00 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.058 | 174 | 87533 | 10.00 | PPBV | | 92 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26454.D
Acq On : 19 Oct 2022 10:25 pm
Operator : thomash
Sample : icc1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:46:44 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

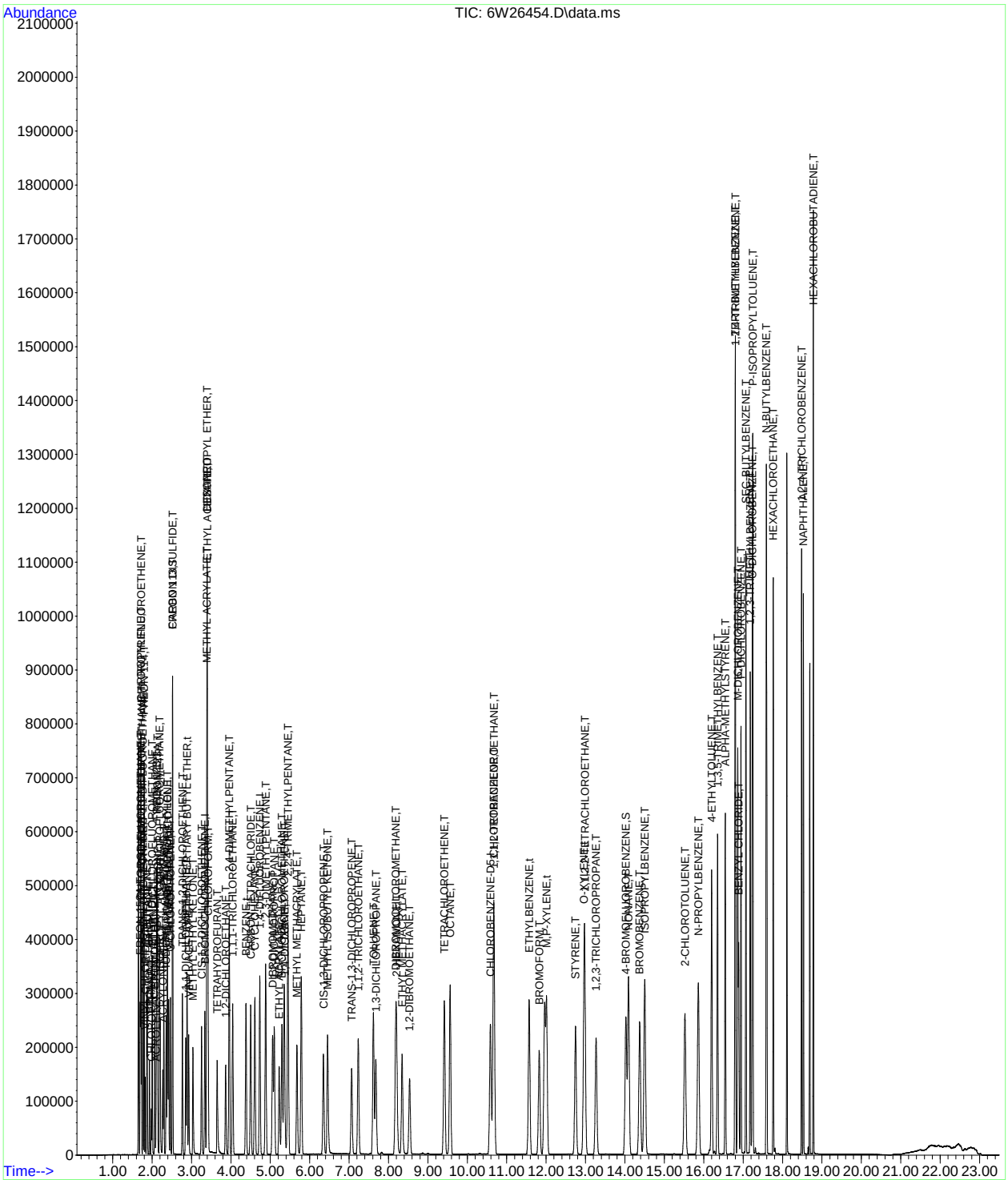
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.225 | 55 | 189495 | 10.00 | PPBV | # | 96 |
| 59) BROMODICHLOROMETHANE | 5.293 | 83 | 160365 | 10.00 | PPBV | | 98 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.447 | 57 | 408278 | 10.00 | PPBV | # | 98 |
| 61) 1,4-DIOXANE | 5.364 | 88 | 42438 | 10.00 | PPBV | # | 79 |
| 62) HEPTANE | 5.788 | 43 | 160426 | 10.00 | PPBV | # | 74 |
| 63) METHYL METHACRYLATE | 5.675 | 69 | 78547 | 10.00 | PPBV | # | 51 |
| 64) METHYL ISOBUTYL KETONE | 6.450 | 58 | 71179 | 10.00 | PPBV | # | 64 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.351 | 75 | 117430 | 10.00 | PPBV | # | 72 |
| 66) TOLUENE | 7.617 | 91 | 251686 | 10.00 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.679 | 76 | 128382 | 10.00 | PPBV | # | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.064 | 75 | 104079 | 10.00 | PPBV | # | 75 |
| 69) 1,1,2-TRICHLOROETHANE | 7.232 | 83 | 76257 | 10.00 | PPBV | | 98 |
| 70) 2-HEXANONE | 8.206 | 58 | 80744 | 10.00 | PPBV | # | 61 |
| 71) ETHYL METHACRYLATE | 8.344 | 69 | 123552 | 10.00 | PPBV | # | 68 |
| 72) TETRACHLOROETHENE | 9.415 | 164 | 96515 | 10.00 | PPBV | | 92 |
| 73) DIBROMOCHLOROMETHANE | 8.180 | 129 | 169421 | 10.00 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.534 | 107 | 139318 | 10.00 | PPBV | | 100 |
| 75) OCTANE | 9.563 | 43 | 219399 | 10.00 | PPBV | # | 75 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.678 | 131 | 115919 | 10.00 | PPBV | | 97 |
| 78) CHLOROBENZENE | 10.669 | 112 | 209525 | 10.00 | PPBV | | 100 |
| 79) ETHYLBENZENE | 11.569 | 91 | 335086 | 10.00 | PPBV | | 100 |
| 80) M,P-XYLENE | 12.010 | 91 | 518412 | 20.00 | PPBV | # | 66 |
| 81) O-XYLENE | 12.961 | 91 | 261863 | 10.00 | PPBV | | 98 |
| 82) STYRENE | 12.746 | 104 | 199893 | 10.00 | PPBV | | 98 |
| 83) NONANE | 14.090 | 43 | 234816 | 10.00 | PPBV | # | 75 |
| 84) BROMOFORM | 11.826 | 173 | 151696 | 10.00 | PPBV | # | 97 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.981 | 83 | 198246 | 10.00 | PPBV | | 98 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.267 | 75 | 153573 | 10.00 | PPBV | | 99 |
| 88) ISOPROPYLBENZENE | 14.501 | 105 | 388762 | 10.00 | PPBV | # | 94 |
| 89) BROMOBENZENE | 14.373 | 77 | 187543 | 10.00 | PPBV | | 97 |
| 90) 2-CHLOROTOLUENE | 15.524 | 91 | 266209 | 10.00 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.861 | 91 | 458661 | 10.00 | PPBV | # | 97 |
| 92) 4-ETHYLTOLUENE | 16.199 | 105 | 389486 | 10.00 | PPBV | | 100 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.350 | 105 | 317114 | 10.00 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.546 | 118 | 158288 | 10.00 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.797 | 119 | 357976 | 10.00 | PPBV | | 98 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.804 | 105 | 332506 | 10.00 | PPBV | | 96 |
| 97) BENZYL CHLORIDE | 16.887 | 91 | 185883 | 10.00 | PPBV | | 98 |
| 98) M-DICHLOROBENZENE | 16.865 | 146 | 218815 | 10.00 | PPBV | | 99 |
| 99) P-DICHLOROBENZENE | 16.945 | 146 | 218232 | 10.00 | PPBV | | 99 |
| 100) O-DICHLOROBENZENE | 17.231 | 146 | 209883 | 10.00 | PPBV | | 99 |
| 101) SEC-BUTYLBENZENE | 17.070 | 105 | 488617 | 10.00 | PPBV | | 99 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.180 | 105 | 323807 | 10.00 | PPBV | | 99 |
| 103) P-ISOPROPYLTOLUENE | 17.244 | 119 | 424958 | 10.00 | PPBV | | 97 |
| 104) N-BUTYLBENZENE | 17.585 | 91 | 389723 | 10.00 | PPBV | | 98 |
| 105) HEXACHLOROETHANE | 17.762 | 117 | 135061 | 10.00 | PPBV | # | 88 |
| 106) HEXACHLOROBUTADIENE | 18.781 | 225 | 147086 | 10.00 | PPBV | | 100 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.482 | 180 | 170601 | 10.00 | PPBV | | 98 |
| 108) NAPHTHALENE | 18.530 | 128 | 427473 | 10.00 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26454.D
Acq On : 19 Oct 2022 10:25 pm
Operator : thomash
Sample : icc1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:46:44 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



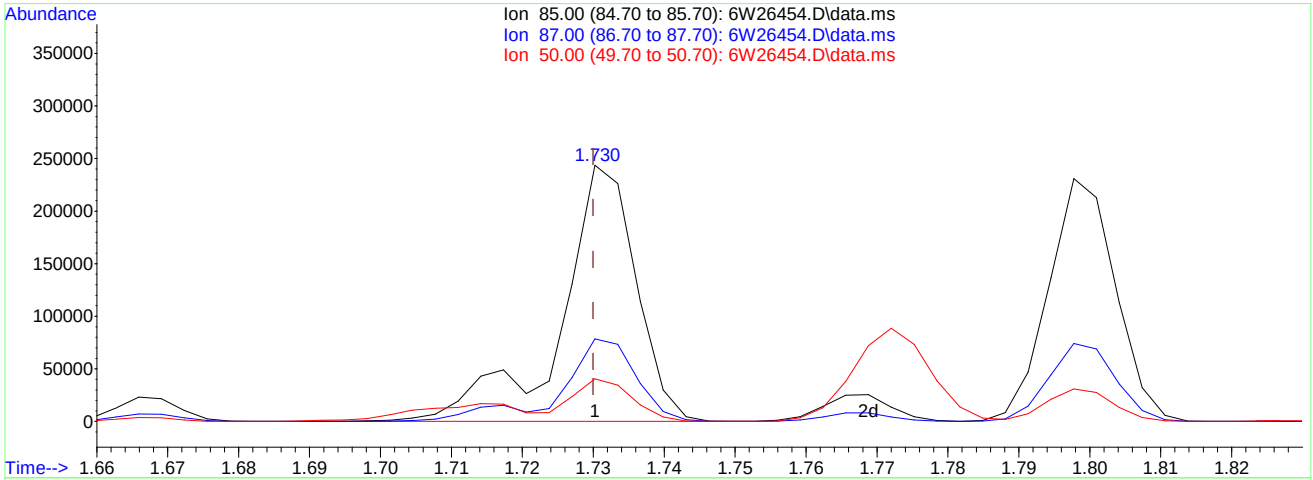
**Sample Number:** V6W1125-ICC1125 **Method:** TO-15
**Lab FileID:** 6W26454.D **Analyst approved:** 10/20/22 10:04 Thomas Hilbig
**Injection Time:** 10/19/22 22:25 **Supervisor approved:** 10/20/22 12:15 Kanya Veerawat

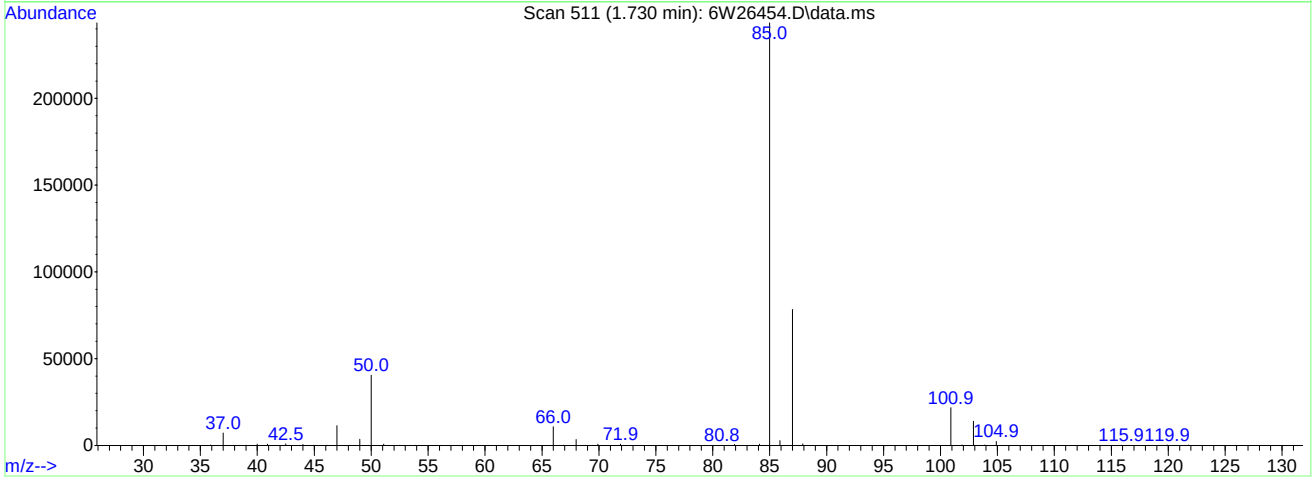
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.73 | Overlapping peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26454.D
Acq On : 19 Oct 2022 10:25 pm
Operator : thomash
Sample : icc1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:32:14 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration




TIC: 6W26454.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (+0.000) 7.75PPBV

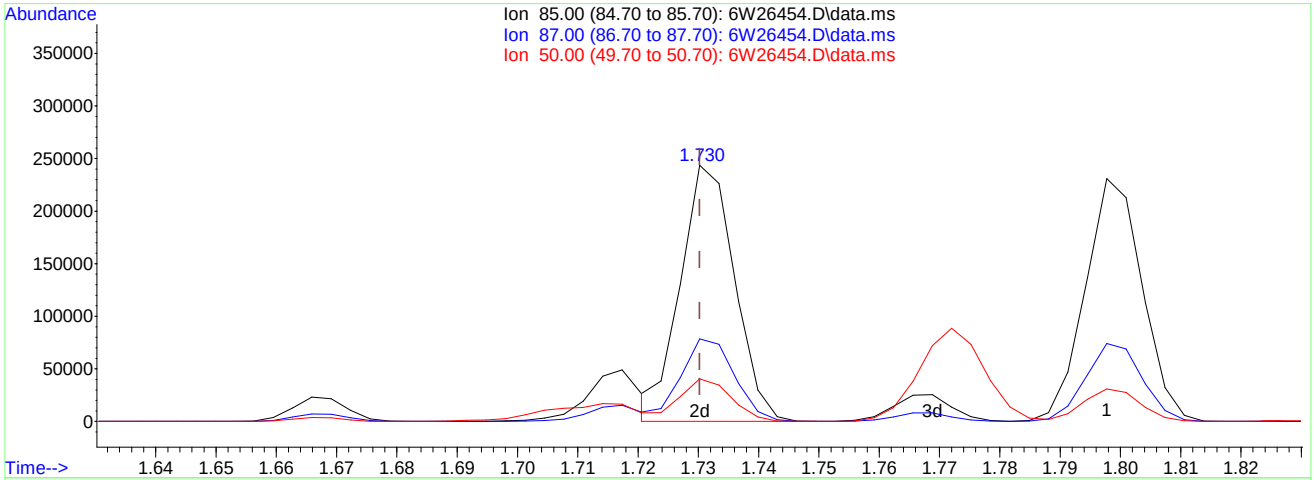
response 181010

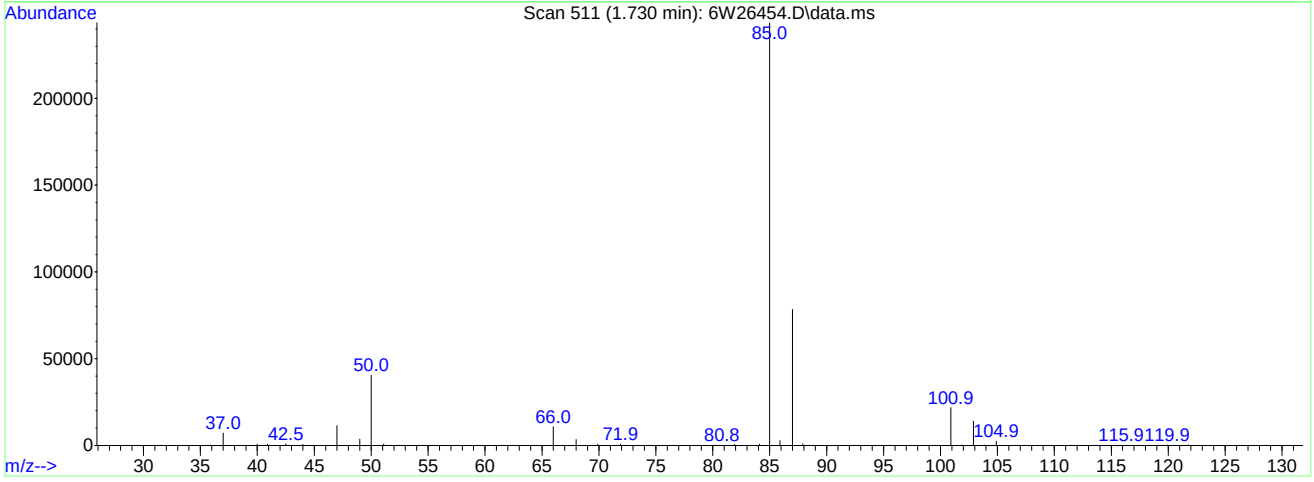
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.08 |
| 50.00 | 9.30 | 23.20# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26454.D
Acq On : 19 Oct 2022 10:25 pm
Operator : thomash
Sample : icc1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:46:44 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26454.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (0.000) 10.00PPBV m

response 152018

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 30.24 |
| 50.00 | 9.30 | 8.09 |
| 0.00 | 0.00 | 0.00 |

6W26455.D

Manual Integrations APPROVED (compounds with "m" flag)

Kanya Veerawat 10/20/22 12:15

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26455.D
Acq On : 19 Oct 2022 10:57 pm
Operator : thomash
Sample : ic1125-20
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:48:06 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.341 | 128 | 49377 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.737 | 114 | 249392 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.589 | 117 | 219656 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.026 | 95 | 157260 | 10.12 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 81708 | 20.39 | PPBV | # | 74 |
| 4) CHLORODIFLUOROMETHANE | 1.708 | 67 | 37113 | 20.32 | PPBV | | 98 |
| 5) CHLOROTRIFLUOROETHENE | 1.717 | 116 | 179947 | 20.73 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.734 | 85 | 300113m | 20.08 | PPBV | | |
| 7) PROPYLENE | 1.714 | 41 | 123567 | 20.51 | PPBV | | 97 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.769 | 65 | 278726 | 20.97 | PPBV | # | 86 |
| 9) FREON 114 | 1.801 | 85 | 313198 | 20.96 | PPBV | | 97 |
| 10) CHLOROMETHANE | 1.772 | 52 | 41351 | 20.35 | PPBV | | 92 |
| 11) VINYL CHLORIDE | 1.830 | 62 | 130827 | 20.96 | PPBV | | 97 |
| 12) 1,3-BUTADIENE | 1.865 | 54 | 108336 | 21.10 | PPBV | # | 73 |
| 13) N-BUTANE | 1.878 | 43 | 219713 | 20.70 | PPBV | # | 90 |
| 14) BROMOMETHANE | 1.936 | 94 | 101473 | 20.86 | PPBV | | 99 |
| 15) CHLOROETHANE | 1.981 | 64 | 63936 | 20.78 | PPBV | | 93 |
| 16) DICHLOROFLUOROMETHANE | 2.004 | 67 | 267942 | 21.01 | PPBV | # | 95 |
| 17) ACETONITRILE | 2.068 | 41 | 134828 | 20.91 | PPBV | | 96 |
| 18) ACROLEIN | 2.103 | 56 | 62598 | 20.58 | PPBV | | 98 |
| 19) FREON 123 | 2.116 | 83 | 253873 | 21.31 | PPBV | | 95 |
| 20) FREON 123A | 2.132 | 117 | 153590 | 21.01 | PPBV | | 84 |
| 21) TRICHLOROFLUOROMETHANE | 2.190 | 101 | 307551 | 21.05 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.206 | 45 | 293937 | 21.08 | PPBV | # | 96 |
| 23) ACETONE | 2.139 | 58 | 65338 | 21.05 | PPBV | # | 23 |
| 24) PENTANE | 2.299 | 42 | 156002 | 20.57 | PPBV | # | 93 |
| 25) IODOMETHANE | 2.357 | 142 | 288300 | 20.10 | PPBV | # | 84 |
| 26) 1,1-DICHLOROETHYLENE | 2.383 | 96 | 108698 | 18.39 | PPBV | # | 52 |
| 27) CARBON DISULFIDE | 2.521 | 76 | 355957 | 19.09 | PPBV | # | 86 |
| 28) ETHANOL | 2.007 | 45 | 65286 | 21.15 | PPBV | | 96 |
| 29) BROMOETHENE | 2.074 | 106 | 106499 | 20.91 | PPBV | # | 98 |
| 30) ACRYLONITRILE | 2.274 | 52 | 101996 | 20.62 | PPBV | | 95 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 99743 | 17.68 | PPBV | # | 45 |
| 32) 3-CHLOROPROPENE | 2.463 | 76 | 54273 | 18.29 | PPBV | # | 1 |
| 33) FREON 113 | 2.521 | 151 | 197048 | 18.33 | PPBV | | 88 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.772 | 96 | 128675 | 19.41 | PPBV | # | 78 |
| 35) TERTIARY BUTYL ALCOHOL | 2.396 | 59 | 254046 | 21.08 | PPBV | # | 93 |
| 36) METHYL TERTIARY BUTYL ... | 2.888 | 73 | 342029 | 20.97 | PPBV | # | 92 |
| 37) TETRAHYDROFURAN | 3.653 | 72 | 64103 | 21.45 | PPBV | # | 43 |
| 38) HEXANE | 3.396 | 57 | 260116 | 20.66 | PPBV | # | 77 |
| 39) VINYL ACETATE | 2.930 | 86 | 34002 | 21.95 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.856 | 63 | 252325 | 20.12 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.039 | 72 | 66263 | 20.83 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.258 | 96 | 140062 | 20.54 | PPBV | # | 80 |
| 43) DIISOPROPYL ETHER | 3.399 | 59 | 76459 | 20.86 | PPBV | # | 47 |
| 44) ETHYL ACETATE | 3.406 | 61 | 52127 | 20.98 | PPBV | # | 17 |
| 45) METHYL ACRYLATE | 3.393 | 55 | 333930 | 21.12 | PPBV | # | 96 |
| 46) CHLOROFORM | 3.425 | 83 | 292725 | 20.64 | PPBV | # | 93 |
| 47) 2,4-DIMETHYLPENTANE | 3.959 | 57 | 305149 | 20.79 | PPBV | # | 94 |
| 48) 1,1,1-TRICHLOROETHANE | 4.045 | 97 | 286273 | 20.87 | PPBV | # | 93 |
| 49) CARBON TETRACHLORIDE | 4.505 | 117 | 317238 | 20.72 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.869 | 62 | 217638 | 20.46 | PPBV | # | 95 |
| 51) BENZENE | 4.383 | 78 | 419451 | 20.70 | PPBV | | 80 |
| 53) CYCLOHEXANE | 4.608 | 84 | 183360 | 20.49 | PPBV | # | 76 |
| 54) 2,3-DIMETHYLPENTANE | 4.885 | 71 | 96958 | 20.22 | PPBV | # | 56 |
| 55) TRICHLOROETHENE | 5.354 | 95 | 195262 | 20.27 | PPBV | | 97 |
| 56) 1,2-DICHLOROPROPANE | 5.103 | 63 | 178229 | 20.23 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.061 | 174 | 178772 | 20.32 | PPBV | | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26455.D
Acq On : 19 Oct 2022 10:57 pm
Operator : thomash
Sample : ic1125-20
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:48:06 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

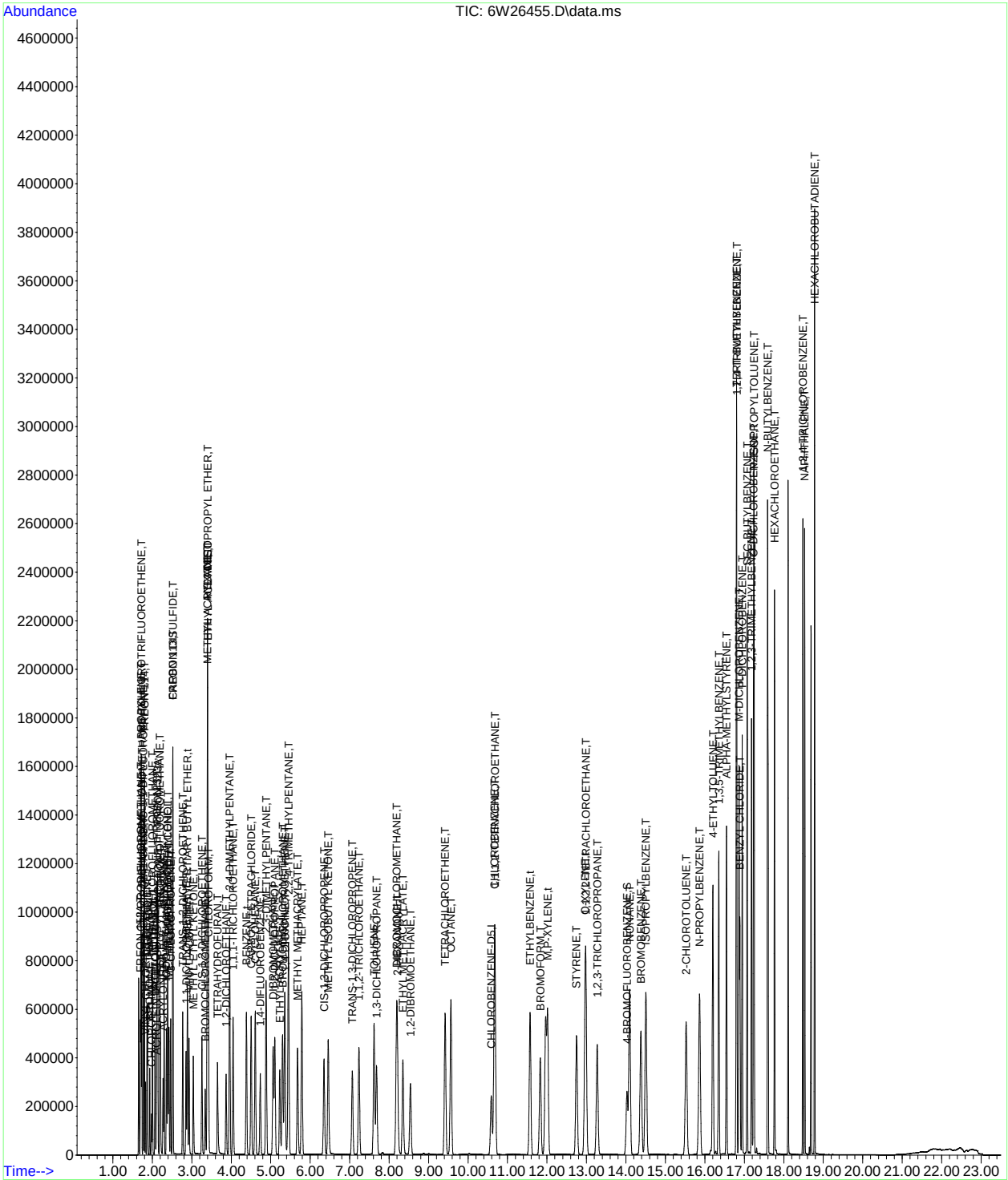
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.229 | 55 | 400306 | 21.02 | PPBV | # | 97 |
| 59) BROMODICHLOROMETHANE | 5.299 | 83 | 324106 | 20.11 | PPBV | | 98 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.450 | 57 | 833535 | 20.31 | PPBV | # | 99 |
| 61) 1,4-DIOXANE | 5.364 | 88 | 90098 | 21.12 | PPBV | # | 78 |
| 62) HEPTANE | 5.788 | 43 | 329247 | 20.42 | PPBV | # | 74 |
| 63) METHYL METHACRYLATE | 5.679 | 69 | 164347 | 20.82 | PPBV | # | 50 |
| 64) METHYL ISOBUTYL KETONE | 6.457 | 58 | 151905 | 21.23 | PPBV | # | 64 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.351 | 75 | 245846 | 20.83 | PPBV | # | 73 |
| 66) TOLUENE | 7.621 | 91 | 517544 | 20.46 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.682 | 76 | 266301 | 20.64 | PPBV | # | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.068 | 75 | 225877 | 21.59 | PPBV | # | 76 |
| 69) 1,1,2-TRICHLOROETHANE | 7.235 | 83 | 155471 | 20.28 | PPBV | | 98 |
| 70) 2-HEXANONE | 8.209 | 58 | 185953 | 22.91 | PPBV | # | 62 |
| 71) ETHYL METHACRYLATE | 8.347 | 69 | 263702 | 21.24 | PPBV | # | 68 |
| 72) TETRACHLOROETHENE | 9.418 | 164 | 197298 | 20.34 | PPBV | | 92 |
| 73) DIBROMOCHLOROMETHANE | 8.187 | 129 | 350108 | 20.56 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.540 | 107 | 289296 | 20.66 | PPBV | | 99 |
| 75) OCTANE | 9.563 | 43 | 458487 | 20.79 | PPBV | # | 75 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.682 | 131 | 238370 | 20.23 | PPBV | | 97 |
| 78) CHLOROBENZENE | 10.669 | 112 | 433066 | 20.33 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.572 | 91 | 699055 | 20.52 | PPBV | | 100 |
| 80) M,P-XYLENE | 12.013 | 91 | 1079066 | 40.95 | PPBV | # | 67 |
| 81) O-XYLENE | 12.968 | 91 | 544844 | 20.46 | PPBV | | 99 |
| 82) STYRENE | 12.746 | 104 | 421198 | 20.73 | PPBV | | 98 |
| 83) NONANE | 14.093 | 43 | 482472 | 20.21 | PPBV | # | 74 |
| 84) BROMOFORM | 11.830 | 173 | 319790 | 20.73 | PPBV | # | 97 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.987 | 83 | 406520 | 20.17 | PPBV | | 98 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.273 | 75 | 318990 | 20.43 | PPBV | | 99 |
| 88) ISOPROPYLBENZENE | 14.505 | 105 | 810979 | 20.52 | PPBV | # | 93 |
| 89) BROMOBENZENE | 14.379 | 77 | 392588 | 20.59 | PPBV | | 96 |
| 90) 2-CHLOROTOLUENE | 15.524 | 91 | 560685 | 20.72 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.865 | 91 | 962567 | 20.64 | PPBV | # | 97 |
| 92) 4-ETHYLTOLUENE | 16.206 | 105 | 818293 | 20.66 | PPBV | | 100 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.354 | 105 | 675844 | 20.96 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.546 | 118 | 339449 | 21.09 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.800 | 119 | 759425 | 20.87 | PPBV | | 98 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.807 | 105 | 703276 | 20.80 | PPBV | | 96 |
| 97) BENZYL CHLORIDE | 16.887 | 91 | 451364 | 23.88 | PPBV | | 98 |
| 98) M-DICHLOROBENZENE | 16.868 | 146 | 464681 | 20.89 | PPBV | | 99 |
| 99) P-DICHLOROBENZENE | 16.945 | 146 | 464922 | 20.95 | PPBV | | 99 |
| 100) O-DICHLOROBENZENE | 17.235 | 146 | 450179 | 21.10 | PPBV | | 99 |
| 101) SEC-BUTYLBENZENE | 17.074 | 105 | 1034528 | 20.83 | PPBV | | 99 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.183 | 105 | 688211 | 20.90 | PPBV | | 99 |
| 103) P-ISOPROPYLTOLUENE | 17.247 | 119 | 899797 | 20.83 | PPBV | | 97 |
| 104) N-BUTYLBENZENE | 17.588 | 91 | 845271 | 21.33 | PPBV | | 98 |
| 105) HEXACHLOROETHANE | 17.765 | 117 | 298884 | 21.77 | PPBV | # | 89 |
| 106) HEXACHLOROBUTADIENE | 18.781 | 225 | 325753 | 21.78 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.482 | 180 | 396784 | 22.88 | PPBV | | 98 |
| 108) NAPHTHALENE | 18.530 | 128 | 1024136 | 23.56 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26455.D
Acq On : 19 Oct 2022 10:57 pm
Operator : thomash
Sample : ic1125-20
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:48:06 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



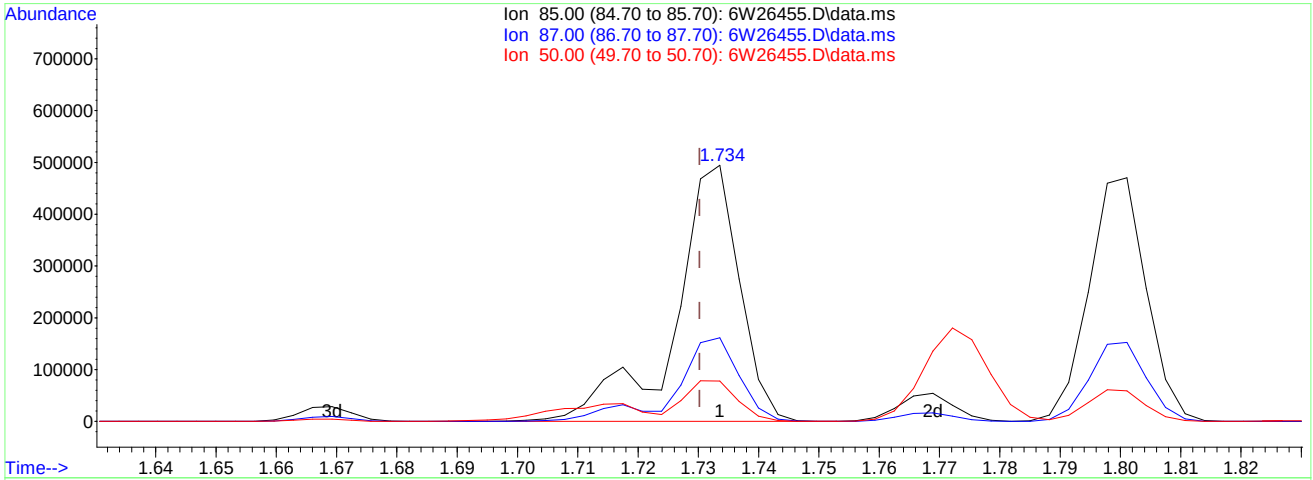
| | | | |
|---|---|---|---|
| **Sample Number:** | V6W1125-IC1125 | **Method:** | TO-15 |
| **Lab FileID:** | 6W26455.D | **Analyst approved:** | 10/20/22 10:04 Thomas Hilbig |
| **Injection Time:** | 10/19/22 22:57 | **Supervisor approved:** | 10/20/22 12:15 Kanya Veerawat |

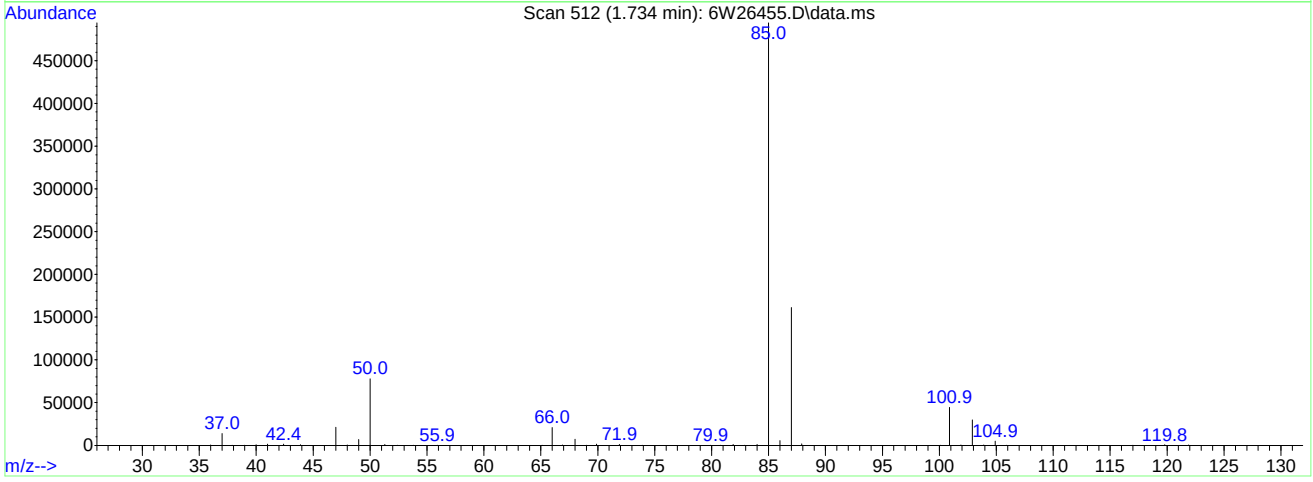
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.73 | Overlapping peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26455.D
Acq On : 19 Oct 2022 10:57 pm
Operator : thomash
Sample : ic1125-20
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:47:41 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26455.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.734min (+0.003) 24.73PPBV

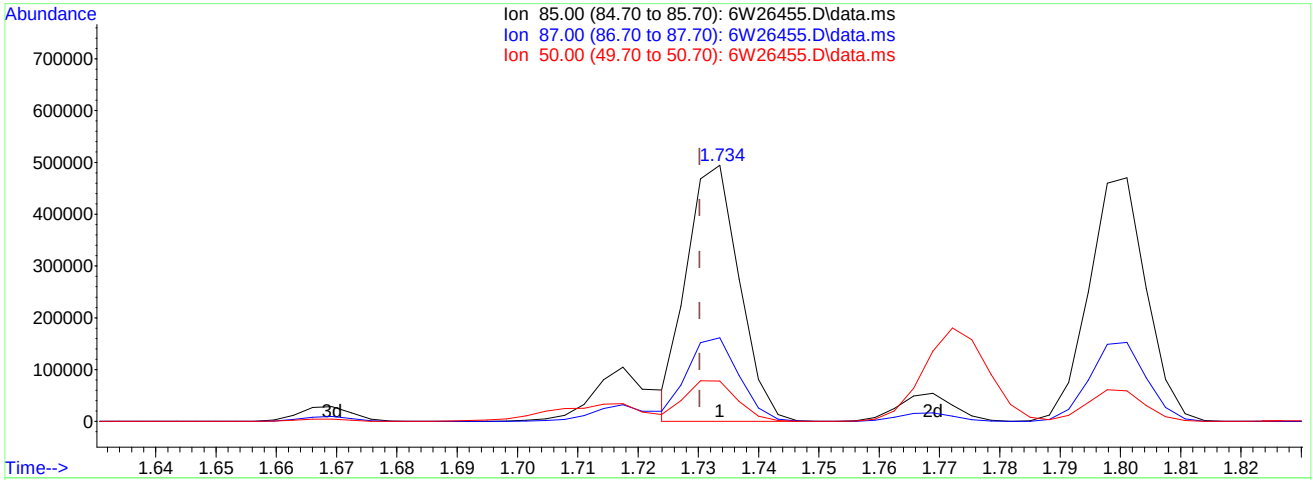
response 369647

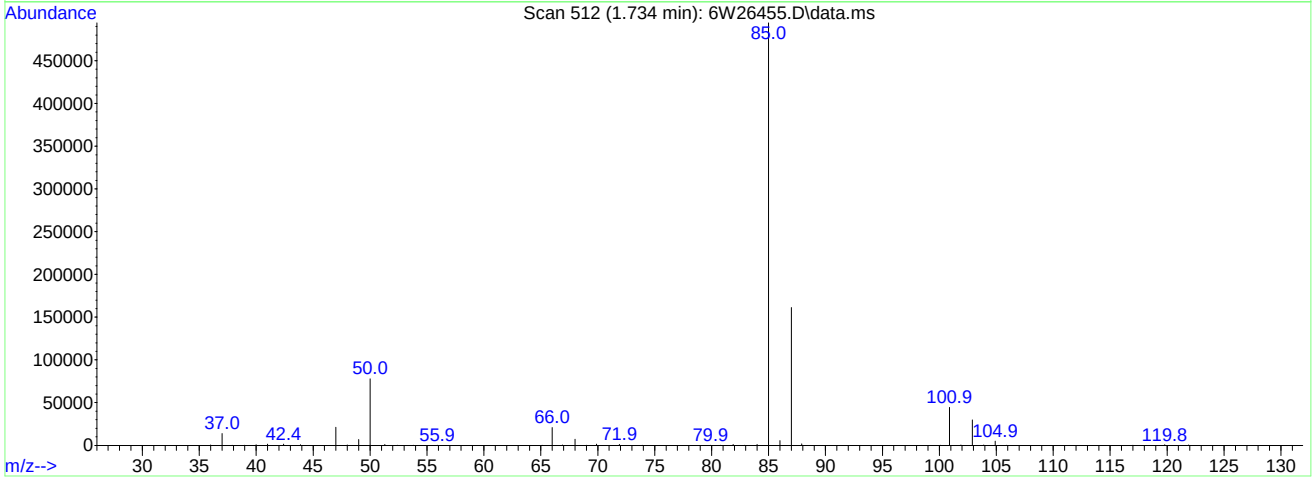
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.23 |
| 50.00 | 9.30 | 22.85# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26455.D
Acq On : 19 Oct 2022 10:57 pm
Operator : thomash
Sample : ic1125-20
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:47:41 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26455.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.734min (+0.003) 20.08PPBV m

response 300113

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 39.70# |
| 50.00 | 9.30 | 28.15# |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/20/22 12:15

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26456.D
Acq On : 19 Oct 2022 11:29 pm
Operator : thomash
Sample : ic1125-40
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:49:51 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.341 | 128 | 46967 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.737 | 114 | 253136 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.589 | 117 | 227517 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.029 | 95 | 161635 | 10.04 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 163961 | 43.02 | PPBV | # | 76 |
| 4) CHLORODIFLUOROMETHANE | 1.705 | 67 | 75194 | 43.27 | PPBV | | 97 |
| 5) CHLOROTRIFLUOROETHENE | 1.714 | 116 | 367249 | 44.48 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.730 | 85 | 618919m | 43.53 | PPBV | | |
| 7) PROPYLENE | 1.714 | 41 | 250115 | 43.64 | PPBV | | 97 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 571824 | 45.23 | PPBV | # | 86 |
| 9) FREON 114 | 1.798 | 85 | 663817 | 46.70 | PPBV | | 97 |
| 10) CHLOROMETHANE | 1.772 | 52 | 85767 | 44.36 | PPBV | | 92 |
| 11) VINYL CHLORIDE | 1.827 | 62 | 262363 | 44.20 | PPBV | | 97 |
| 12) 1,3-BUTADIENE | 1.862 | 54 | 222248 | 45.50 | PPBV | # | 72 |
| 13) N-BUTANE | 1.878 | 43 | 450101 | 44.59 | PPBV | # | 90 |
| 14) BROMOMETHANE | 1.933 | 94 | 211773 | 45.78 | PPBV | | 99 |
| 15) CHLOROETHANE | 1.978 | 64 | 130163 | 44.48 | PPBV | | 93 |
| 16) DICHLOROFLUOROMETHANE | 2.000 | 67 | 559369 | 46.11 | PPBV | # | 95 |
| 17) ACETONITRILE | 2.065 | 41 | 276741 | 45.12 | PPBV | | 97 |
| 18) ACROLEIN | 2.100 | 56 | 131385 | 45.42 | PPBV | | 100 |
| 19) FREON 123 | 2.116 | 83 | 534859 | 47.20 | PPBV | | 96 |
| 20) FREON 123A | 2.129 | 117 | 324907 | 46.73 | PPBV | | 85 |
| 21) TRICHLOROFLUOROMETHANE | 2.190 | 101 | 640519 | 46.08 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.203 | 45 | 633268 | 47.74 | PPBV | # | 97 |
| 23) ACETONE | 2.136 | 58 | 137114 | 46.44 | PPBV | # | 25 |
| 24) PENTANE | 2.296 | 42 | 343004 | 47.55 | PPBV | # | 94 |
| 25) IODOMETHANE | 2.354 | 142 | 657283 | 48.18 | PPBV | # | 85 |
| 26) 1,1-DICHLOROETHYLENE | 2.383 | 96 | 245216 | 43.63 | PPBV | # | 53 |
| 27) CARBON DISULFIDE | 2.518 | 76 | 782562 | 44.11 | PPBV | # | 88 |
| 28) ETHANOL | 2.004 | 45 | 135376 | 46.10 | PPBV | | 97 |
| 29) BROMOETHENE | 2.071 | 106 | 222371 | 45.90 | PPBV | # | 97 |
| 30) ACRYLONITRILE | 2.271 | 52 | 222964 | 47.40 | PPBV | | 95 |
| 31) METHYLENE CHLORIDE | 2.418 | 84 | 225128 | 41.96 | PPBV | # | 49 |
| 32) 3-CHLOROPROPENE | 2.460 | 76 | 122652 | 43.45 | PPBV | # | 1 |
| 33) FREON 113 | 2.518 | 151 | 437104 | 42.74 | PPBV | | 90 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 265721 | 42.13 | PPBV | # | 77 |
| 35) TERTIARY BUTYL ALCOHOL | 2.393 | 59 | 592362 | 51.68 | PPBV | # | 90 |
| 36) METHYL TERTIARY BUTYL ... | 2.888 | 73 | 701685 | 45.23 | PPBV | # | 91 |
| 37) TETRAHYDROFURAN | 3.650 | 72 | 132108 | 46.47 | PPBV | # | 45 |
| 38) HEXANE | 3.393 | 57 | 521004 | 43.50 | PPBV | # | 76 |
| 39) VINYL ACETATE | 2.930 | 86 | 70686 | 47.96 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.853 | 63 | 513148 | 43.02 | PPBV | | 98 |
| 41) METHYL ETHYL KETONE | 3.036 | 72 | 134598 | 44.48 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 270232 | 41.66 | PPBV | # | 77 |
| 43) DIISOPROPYL ETHER | 3.402 | 59 | 153829 | 44.12 | PPBV | # | 46 |
| 44) ETHYL ACETATE | 3.409 | 61 | 105294 | 44.54 | PPBV | # | 16 |
| 45) METHYL ACRYLATE | 3.393 | 55 | 676447 | 44.98 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.425 | 83 | 567828 | 42.09 | PPBV | # | 93 |
| 47) 2,4-DIMETHYLPENTANE | 3.955 | 57 | 623824 | 44.69 | PPBV | # | 94 |
| 48) 1,1,1-TRICHLOROETHANE | 4.045 | 97 | 587783 | 45.06 | PPBV | # | 94 |
| 49) CARBON TETRACHLORIDE | 4.502 | 117 | 655252 | 45.00 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.869 | 62 | 442918 | 43.78 | PPBV | # | 94 |
| 51) BENZENE | 4.383 | 78 | 859631 | 44.60 | PPBV | | 80 |
| 53) CYCLOHEXANE | 4.605 | 84 | 376495 | 41.45 | PPBV | # | 75 |
| 54) 2,3-DIMETHYLPENTANE | 4.881 | 71 | 200257 | 41.15 | PPBV | # | 57 |
| 55) TRICHLOROETHENE | 5.357 | 95 | 400192 | 40.92 | PPBV | | 96 |
| 56) 1,2-DICHLOROPROPANE | 5.103 | 63 | 363456 | 40.65 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.061 | 174 | 367548 | 41.16 | PPBV | | 92 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26456.D
Acq On : 19 Oct 2022 11:29 pm
Operator : thomash
Sample : ic1125-40
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:49:51 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

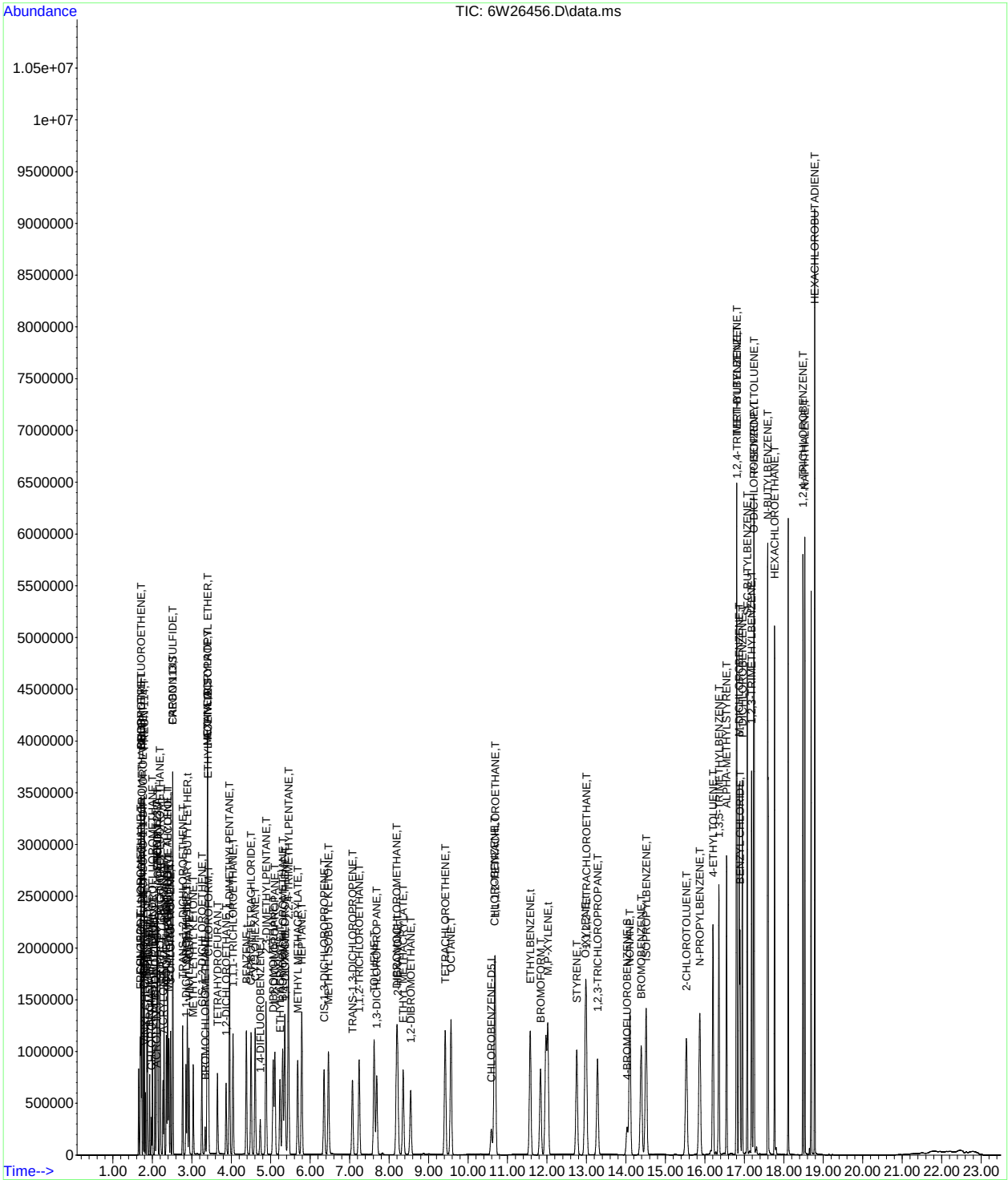
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.235 | 55 | 849451 | 43.94 | PPBV | # | 97 |
| 59) BROMODICHLOROMETHANE | 5.303 | 83 | 668008 | 40.83 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.450 | 57 | 1705560 | 40.95 | PPBV | # | 98 |
| 61) 1,4-DIOXANE | 5.367 | 88 | 188728 | 43.59 | PPBV | # | 77 |
| 62) HEPTANE | 5.788 | 43 | 674381 | 41.21 | PPBV | # | 75 |
| 63) METHYL METHACRYLATE | 5.682 | 69 | 346293 | 43.22 | PPBV | # | 51 |
| 64) METHYL ISOBUTYL KETONE | 6.463 | 58 | 315845 | 43.50 | PPBV | # | 65 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.351 | 75 | 519377 | 43.35 | PPBV | # | 73 |
| 66) TOLUENE | 7.621 | 91 | 1077600 | 41.97 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.688 | 76 | 550084 | 42.00 | PPBV | # | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.071 | 75 | 479918 | 45.20 | PPBV | # | 76 |
| 69) 1,1,2-TRICHLOROETHANE | 7.241 | 83 | 318639 | 40.96 | PPBV | | 98 |
| 70) 2-HEXANONE | 8.216 | 58 | 398485 | 48.38 | PPBV | # | 64 |
| 71) ETHYL METHACRYLATE | 8.357 | 69 | 553422 | 43.91 | PPBV | # | 67 |
| 72) TETRACHLOROETHENE | 9.421 | 164 | 410286 | 41.67 | PPBV | | 92 |
| 73) DIBROMOCHLOROMETHANE | 8.190 | 129 | 733897 | 42.46 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.547 | 107 | 600655 | 42.26 | PPBV | | 99 |
| 75) OCTANE | 9.566 | 43 | 941590 | 42.07 | PPBV | # | 75 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.688 | 131 | 498844 | 40.87 | PPBV | | 98 |
| 78) CHLOROBENZENE | 10.672 | 112 | 897241 | 40.66 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.576 | 91 | 1454202 | 41.21 | PPBV | | 100 |
| 80) M,P-XYLENE | 12.019 | 91 | 2235018 | 81.88 | PPBV | # | 67 |
| 81) O-XYLENE | 12.971 | 91 | 1128138 | 40.91 | PPBV | | 99 |
| 82) STYRENE | 12.756 | 104 | 879675 | 41.79 | PPBV | | 98 |
| 83) NONANE | 14.100 | 43 | 989572 | 40.02 | PPBV | # | 74 |
| 84) BROMOFORM | 11.839 | 173 | 669992 | 41.94 | PPBV | # | 97 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.997 | 83 | 842134 | 40.34 | PPBV | | 98 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.280 | 75 | 658833 | 40.74 | PPBV | | 99 |
| 88) ISOPROPYLBENZENE | 14.511 | 105 | 1682867 | 41.11 | PPBV | # | 93 |
| 89) BROMOBENZENE | 14.386 | 77 | 812725 | 41.15 | PPBV | | 97 |
| 90) 2-CHLOROTOLUENE | 15.530 | 91 | 1171885 | 41.80 | PPBV | | 98 |
| 91) N-PROPYLBENZENE | 15.871 | 91 | 2011221 | 41.64 | PPBV | # | 97 |
| 92) 4-ETHYLTOLUENE | 16.206 | 105 | 1721193 | 41.96 | PPBV | | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.357 | 105 | 1431579 | 42.87 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.550 | 118 | 719858 | 43.19 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.807 | 119 | 1606964 | 42.63 | PPBV | | 98 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.810 | 105 | 1495113 | 42.70 | PPBV | | 96 |
| 97) BENZYL CHLORIDE | 16.894 | 91 | 1052168 | 53.75 | PPBV | | 98 |
| 98) M-DICHLOROBENZENE | 16.871 | 146 | 982044 | 42.62 | PPBV | | 99 |
| 99) P-DICHLOROBENZENE | 16.952 | 146 | 997166 | 43.39 | PPBV | | 99 |
| 100) O-DICHLOROBENZENE | 17.238 | 146 | 962371 | 43.54 | PPBV | | 99 |
| 101) SEC-BUTYLBENZENE | 17.074 | 105 | 2164365 | 42.06 | PPBV | | 99 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.183 | 105 | 1452418 | 42.59 | PPBV | | 100 |
| 103) P-ISOPROPYLTOLUENE | 17.247 | 119 | 1915158 | 42.80 | PPBV | | 97 |
| 104) N-BUTYLBENZENE | 17.588 | 91 | 1807256 | 44.04 | PPBV | | 98 |
| 105) HEXACHLOROETHANE | 17.765 | 117 | 650411 | 45.74 | PPBV | # | 89 |
| 106) HEXACHLOROBUTADIENE | 18.784 | 225 | 757147 | 48.88 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.485 | 180 | 922193 | 51.33 | PPBV | | 97 |
| 108) NAPHTHALENE | 18.534 | 128 | 2419856 | 53.76 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26456.D
Acq On : 19 Oct 2022 11:29 pm
Operator : thomash
Sample : ic1125-40
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:49:51 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V6W1125-IC1125
**Lab FileID:** 6W26456.D
**Injection Time:** 10/19/22 23:29

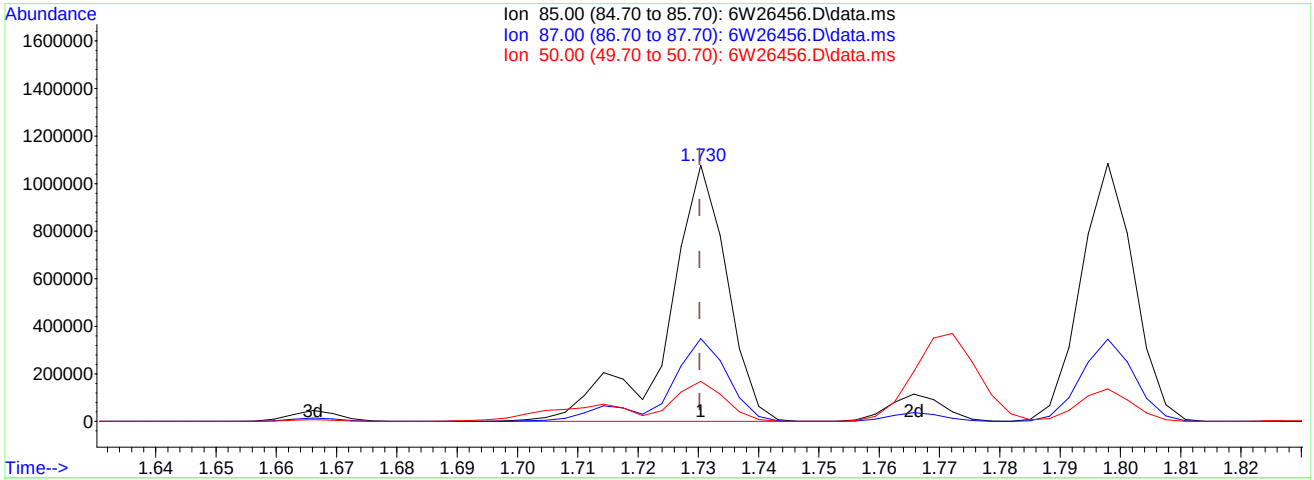
**Method:** TO-15
**Analyst approved:** 10/20/22 10:04 Thomas Hilbig
**Supervisor approved:** 10/20/22 12:15 Kanya Veerawat

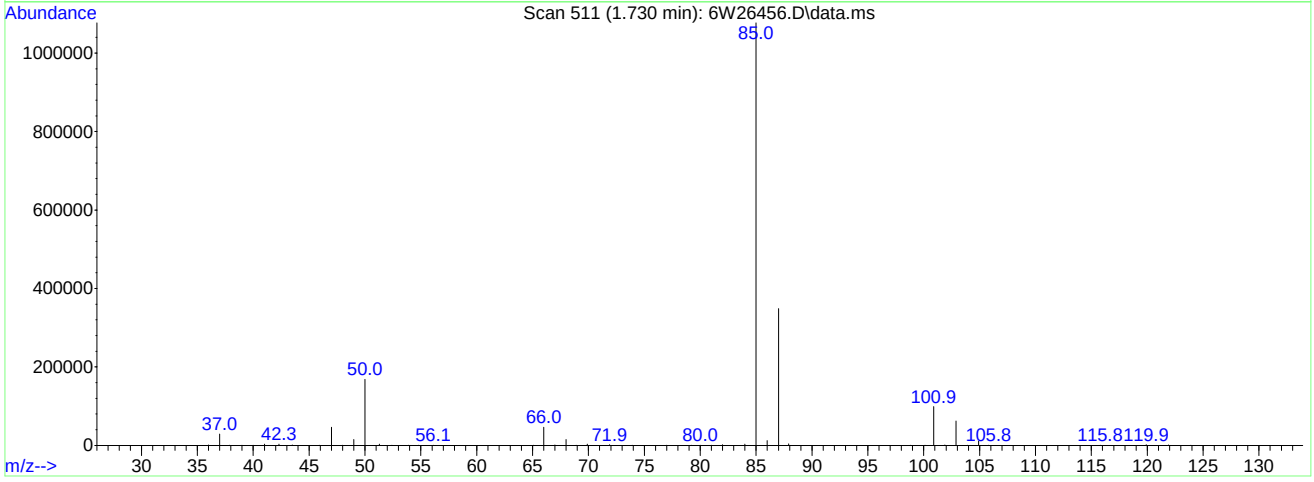
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.73 | Overlapping peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26456.D
Acq On : 19 Oct 2022 11:29 pm
Operator : thomash
Sample : ic1125-40
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:49:29 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26456.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (+0.000) 52.36PPBV

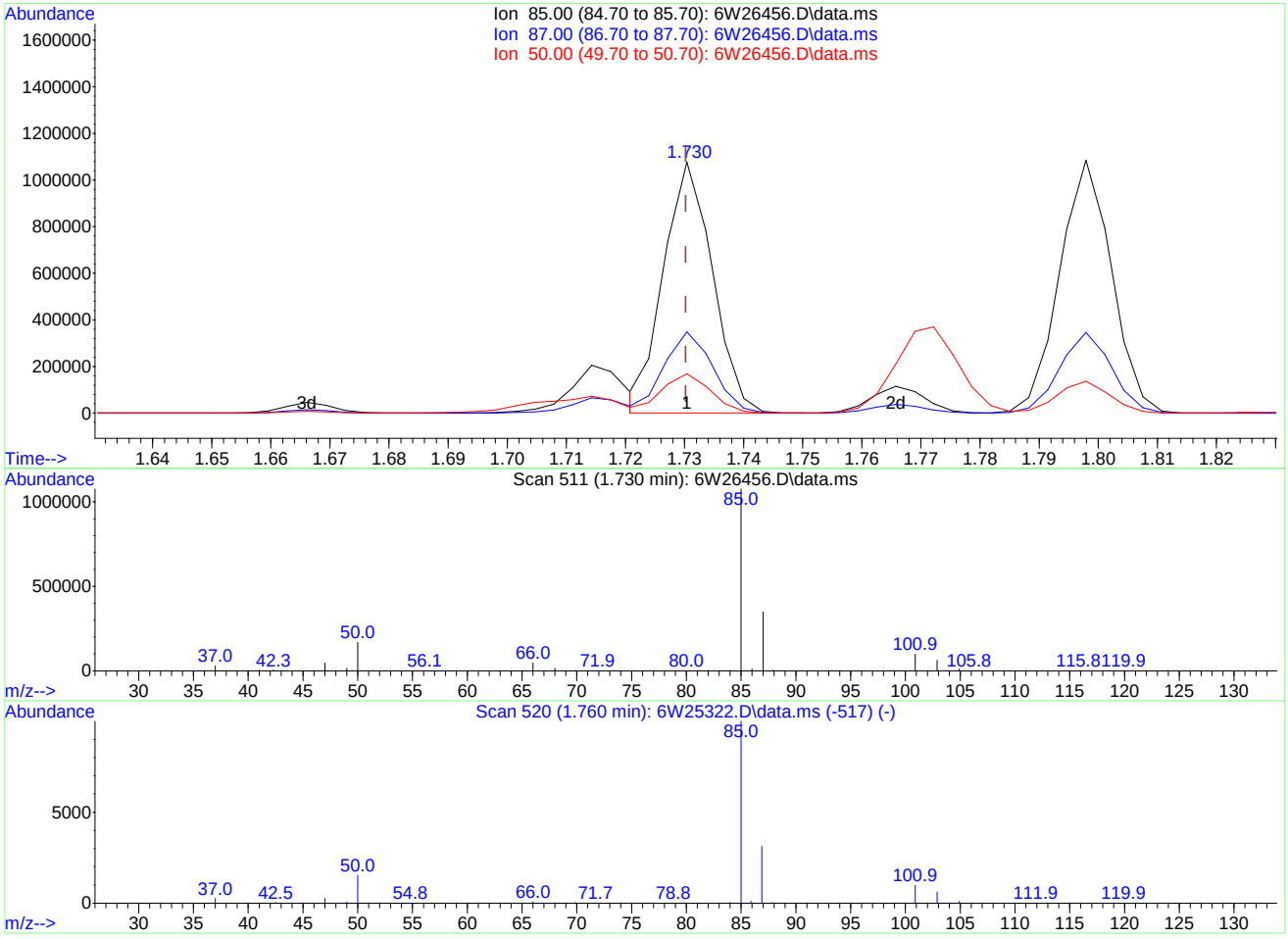
response 744497

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.34 |
| 50.00 | 9.30 | 22.51# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26456.D
Acq On : 19 Oct 2022 11:29 pm
Operator : thomash
Sample : ic1125-40
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:49:29 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26456.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (+0.000) 43.53PPBV m

response 618919

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 38.90# |
| 50.00 | 9.30 | 27.07# |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/20/22 12:15

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26457.D
Acq On : 20 Oct 2022 12:03 am
Operator : thomash
Sample : ic1125-50
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:53:45 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.341 | 128 | 49484 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.737 | 114 | 256894 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.588 | 117 | 229830 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.032 | 95 | 164056 | 10.09 | PPBV | | 0.01 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 205752 | 51.24 | PPBV | # | 76 |
| 4) CHLORODIFLUOROMETHANE | 1.705 | 67 | 95178 | 51.99 | PPBV | | 98 |
| 5) CHLOROTRIFLUOROETHENE | 1.714 | 116 | 465990 | 53.57 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.730 | 85 | 760993m | 50.80 | PPBV | | |
| 7) PROPYLENE | 1.714 | 41 | 310615 | 51.44 | PPBV | | 97 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 744693 | 55.90 | PPBV | # | 86 |
| 9) FREON 114 | 1.798 | 85 | 863921 | 57.69 | PPBV | | 98 |
| 10) CHLOROMETHANE | 1.772 | 52 | 110393 | 54.20 | PPBV | | 92 |
| 11) VINYL CHLORIDE | 1.827 | 62 | 335776 | 53.69 | PPBV | | 98 |
| 12) 1,3-BUTADIENE | 1.862 | 54 | 289612 | 56.28 | PPBV | # | 74 |
| 13) N-BUTANE | 1.878 | 43 | 575553 | 54.12 | PPBV | # | 91 |
| 14) BROMOMETHANE | 1.933 | 94 | 271714 | 55.75 | PPBV | | 100 |
| 15) CHLOROETHANE | 1.978 | 64 | 167979 | 54.48 | PPBV | | 94 |
| 16) DICHLOROFLUOROMETHANE | 2.000 | 67 | 726431 | 56.83 | PPBV | # | 95 |
| 17) ACETONITRILE | 2.065 | 41 | 351071 | 54.33 | PPBV | | 97 |
| 18) ACROLEIN | 2.100 | 56 | 167398 | 54.93 | PPBV | | 98 |
| 19) FREON 123 | 2.113 | 83 | 697138 | 58.39 | PPBV | | 95 |
| 20) FREON 123A | 2.129 | 117 | 423251 | 57.77 | PPBV | | 85 |
| 21) TRICHLOROFLUOROMETHANE | 2.190 | 101 | 828916 | 56.60 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.203 | 45 | 815195 | 58.32 | PPBV | # | 99 |
| 23) ACETONE | 2.135 | 58 | 176460 | 56.73 | PPBV | # | 26 |
| 24) PENTANE | 2.296 | 42 | 408771 | 53.78 | PPBV | # | 94 |
| 25) IODOMETHANE | 2.354 | 142 | 787579 | 54.79 | PPBV | # | 83 |
| 26) 1,1-DICHLOROETHYLENE | 2.383 | 96 | 299957 | 50.65 | PPBV | # | 53 |
| 27) CARBON DISULFIDE | 2.518 | 76 | 989379 | 52.94 | PPBV | # | 88 |
| 28) ETHANOL | 2.004 | 45 | 173809 | 56.18 | PPBV | # | 97 |
| 29) BROMOETHENE | 2.071 | 106 | 286147 | 56.06 | PPBV | # | 98 |
| 30) ACRYLONITRILE | 2.270 | 52 | 270180 | 54.51 | PPBV | | 95 |
| 31) METHYLENE CHLORIDE | 2.418 | 84 | 265469 | 46.96 | PPBV | # | 47 |
| 32) 3-CHLOROPROPENE | 2.463 | 76 | 146926 | 49.40 | PPBV | # | 1 |
| 33) FREON 113 | 2.518 | 151 | 546341 | 50.71 | PPBV | | 88 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 344381 | 51.82 | PPBV | # | 78 |
| 35) TERTIARY BUTYL ALCOHOL | 2.393 | 59 | 737234 | 61.05 | PPBV | # | 89 |
| 36) METHYL TERTIARY BUTYL ... | 2.888 | 73 | 925978 | 56.66 | PPBV | # | 91 |
| 37) TETRAHYDROFURAN | 3.650 | 72 | 166673 | 55.65 | PPBV | # | 39 |
| 38) HEXANE | 3.393 | 57 | 678018 | 53.74 | PPBV | # | 77 |
| 39) VINYL ACETATE | 2.930 | 86 | 92754 | 59.74 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.852 | 63 | 664396 | 52.87 | PPBV | | 98 |
| 41) METHYL ETHYL KETONE | 3.036 | 72 | 172738 | 54.18 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 353037 | 51.65 | PPBV | # | 78 |
| 43) DIISOPROPYL ETHER | 3.402 | 59 | 200034 | 54.45 | PPBV | # | 51 |
| 44) ETHYL ACETATE | 3.409 | 61 | 136714 | 54.89 | PPBV | # | 22 |
| 45) METHYL ACRYLATE | 3.393 | 55 | 875745 | 55.26 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.425 | 83 | 738319 | 51.95 | PPBV | # | 93 |
| 47) 2,4-DIMETHYLPENTANE | 3.955 | 57 | 767338 | 52.17 | PPBV | # | 93 |
| 48) 1,1,1-TRICHLOROETHANE | 4.045 | 97 | 750699 | 54.62 | PPBV | # | 94 |
| 49) CARBON TETRACHLORIDE | 4.502 | 117 | 837332 | 54.58 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.868 | 62 | 563096 | 52.82 | PPBV | # | 94 |
| 51) BENZENE | 4.383 | 78 | 1103884 | 54.36 | PPBV | | 80 |
| 53) CYCLOHEXANE | 4.605 | 84 | 480631 | 52.14 | PPBV | # | 75 |
| 54) 2,3-DIMETHYLPENTANE | 4.881 | 71 | 257103 | 52.06 | PPBV | # | 57 |
| 55) TRICHLOROETHENE | 5.354 | 95 | 514119 | 51.80 | PPBV | | 97 |
| 56) 1,2-DICHLOROPROPANE | 5.106 | 63 | 468131 | 51.59 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.061 | 174 | 472796 | 52.17 | PPBV | | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26457.D
Acq On : 20 Oct 2022 12:03 am
Operator : thomash
Sample : ic1125-50
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:53:45 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

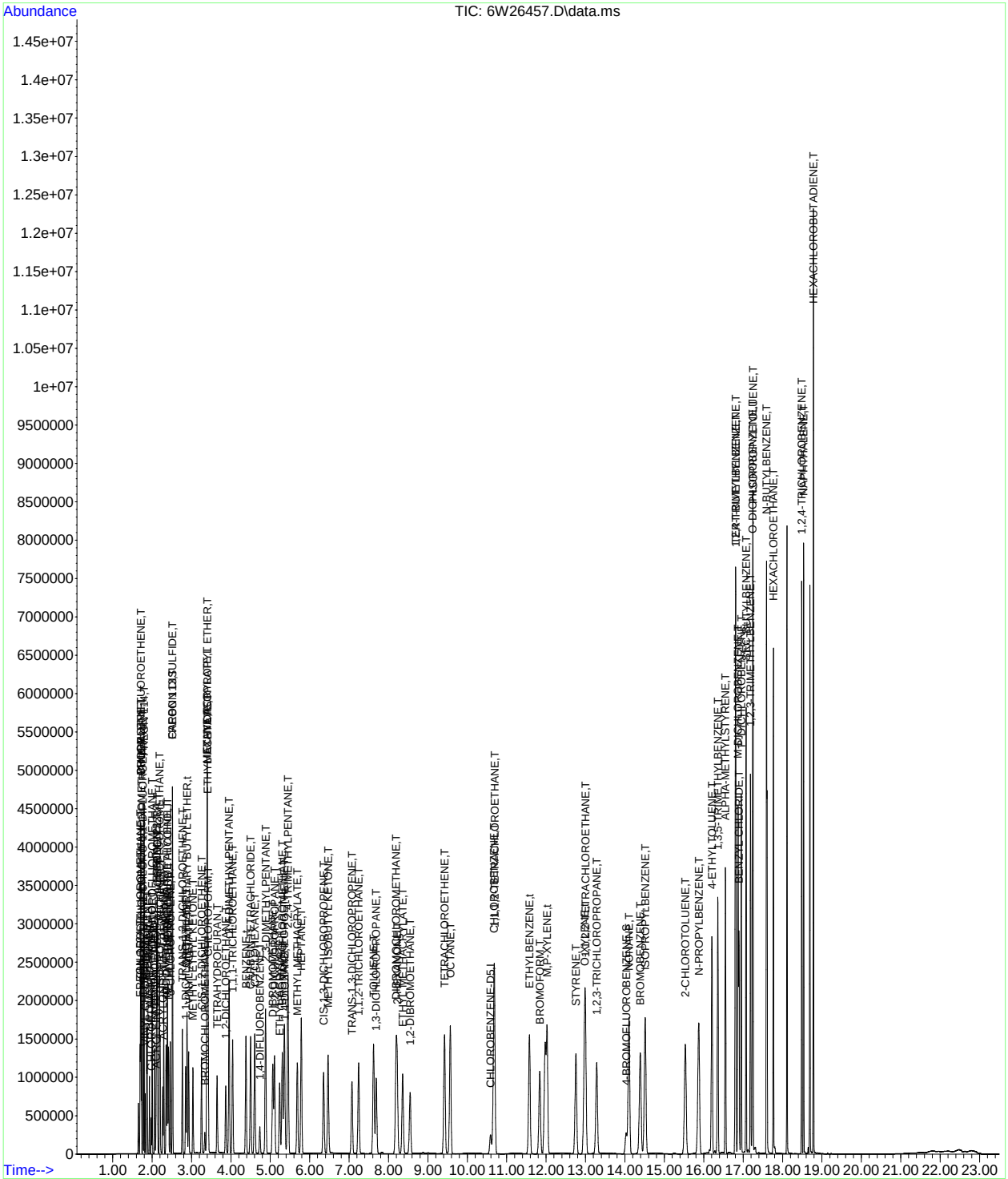
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.238 | 55 | 1098830 | 56.01 | PPBV | # | 97 |
| 59) BROMODICHLOROMETHANE | 5.303 | 83 | 855768 | 51.54 | PPBV | | 98 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.447 | 57 | 2189480 | 51.80 | PPBV | # | 98 |
| 61) 1,4-DIOXANE | 5.370 | 88 | 248097 | 56.47 | PPBV | # | 77 |
| 62) HEPTANE | 5.785 | 43 | 867169 | 52.21 | PPBV | # | 75 |
| 63) METHYL METHACRYLATE | 5.685 | 69 | 447804 | 55.07 | PPBV | # | 51 |
| 64) METHYL ISOBUTYL KETONE | 6.466 | 58 | 410011 | 55.64 | PPBV | # | 65 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.354 | 75 | 670342 | 55.14 | PPBV | # | 73 |
| 66) TOLUENE | 7.621 | 91 | 1390715 | 53.37 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.688 | 76 | 707445 | 53.22 | PPBV | # | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.071 | 75 | 625674 | 58.06 | PPBV | # | 76 |
| 69) 1,1,2-TRICHLOROETHANE | 7.245 | 83 | 410658 | 52.01 | PPBV | | 98 |
| 70) 2-HEXANONE | 8.219 | 58 | 526885 | 63.03 | PPBV | # | 65 |
| 71) ETHYL METHACRYLATE | 8.360 | 69 | 721957 | 56.44 | PPBV | # | 68 |
| 72) TETRACHLOROETHENE | 9.421 | 164 | 529858 | 53.03 | PPBV | | 92 |
| 73) DIBROMOCHLOROMETHANE | 8.190 | 129 | 945732 | 53.92 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.550 | 107 | 775972 | 53.80 | PPBV | | 99 |
| 75) OCTANE | 9.569 | 43 | 1205638 | 53.08 | PPBV | # | 75 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.691 | 131 | 643742 | 52.20 | PPBV | | 98 |
| 78) CHLOROBENZENE | 10.675 | 112 | 1159394 | 52.02 | PPBV | | 100 |
| 79) ETHYLBENZENE | 11.579 | 91 | 1876315 | 52.64 | PPBV | | 100 |
| 80) M,P-XYLENE | 12.023 | 91 | 2892477m | 104.90 | PPBV | | |
| 81) O-XYLENE | 12.974 | 91 | 1453541 | 52.18 | PPBV | | 97 |
| 82) STYRENE | 12.756 | 104 | 1132584 | 53.26 | PPBV | | 98 |
| 83) NONANE | 14.106 | 43 | 1260959 | 50.48 | PPBV | # | 74 |
| 84) BROMOFORM | 11.839 | 173 | 872403 | 54.06 | PPBV | # | 97 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 13.000 | 83 | 1084180 | 51.41 | PPBV | | 98 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.286 | 75 | 848963 | 51.97 | PPBV | | 99 |
| 88) ISOPROPYLBENZENE | 14.514 | 105 | 2159991 | 52.23 | PPBV | # | 93 |
| 89) BROMOBENZENE | 14.389 | 77 | 1045006 | 52.38 | PPBV | | 97 |
| 90) 2-CHLOROTOLUENE | 15.534 | 91 | 1501344 | 53.02 | PPBV | | 98 |
| 91) N-PROPYLBENZENE | 15.874 | 91 | 2595777 | 53.20 | PPBV | # | 97 |
| 92) 4-ETHYLTOLUENE | 16.209 | 105 | 2206279 | 53.25 | PPBV | | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.357 | 105 | 1852741 | 54.92 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.550 | 118 | 926148 | 55.00 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.807 | 119 | 2065662 | 54.24 | PPBV | | 98 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.813 | 105 | 1925116 | 54.43 | PPBV | | 96 |
| 97) BENZYL CHLORIDE | 16.894 | 91 | 1425408 | 72.09 | PPBV | | 98 |
| 98) M-DICHLOROBENZENE | 16.871 | 146 | 1271661 | 54.63 | PPBV | | 99 |
| 99) P-DICHLOROBENZENE | 16.952 | 146 | 1306388 | 56.27 | PPBV | | 99 |
| 100) O-DICHLOROBENZENE | 17.241 | 146 | 1267285 | 56.76 | PPBV | | 99 |
| 101) SEC-BUTYLBENZENE | 17.077 | 105 | 2815719 | 54.17 | PPBV | | 99 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.186 | 105 | 1878817 | 54.54 | PPBV | | 99 |
| 103) P-ISOPROPYLTOLUENE | 17.251 | 119 | 2494674 | 55.18 | PPBV | | 96 |
| 104) N-BUTYLBENZENE | 17.591 | 91 | 2362429 | 56.98 | PPBV | | 98 |
| 105) HEXACHLOROETHANE | 17.768 | 117 | 851741 | 59.29 | PPBV | # | 90 |
| 106) HEXACHLOROBUTADIENE | 18.784 | 225 | 1049841 | 67.10 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.485 | 180 | 1229650 | 67.76 | PPBV | | 97 |
| 108) NAPHTHALENE | 18.534 | 128 | 3251100 | 71.49 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26457.D
Acq On : 20 Oct 2022 12:03 am
Operator : thomash
Sample : ic1125-50
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:53:45 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



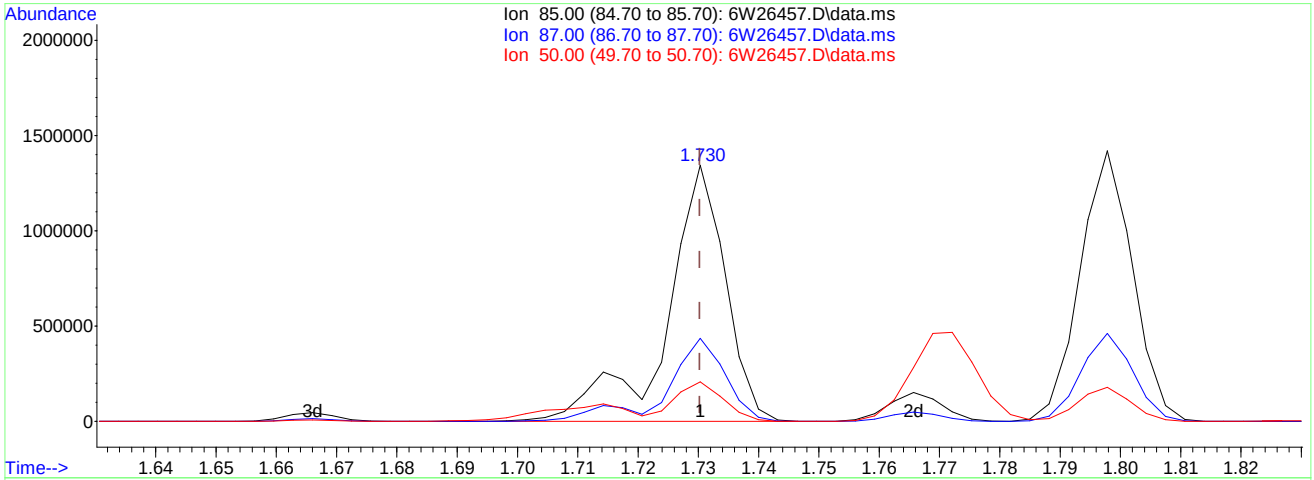
**Sample Number:** V6W1125-IC1125 **Method:** TO-15
**Lab FileID:** 6W26457.D **Analyst approved:** 10/20/22 10:04 Thomas Hilbig
**Injection Time:** 10/20/22 00:03 **Supervisor approved:** 10/20/22 12:15 Kanya Veerawat

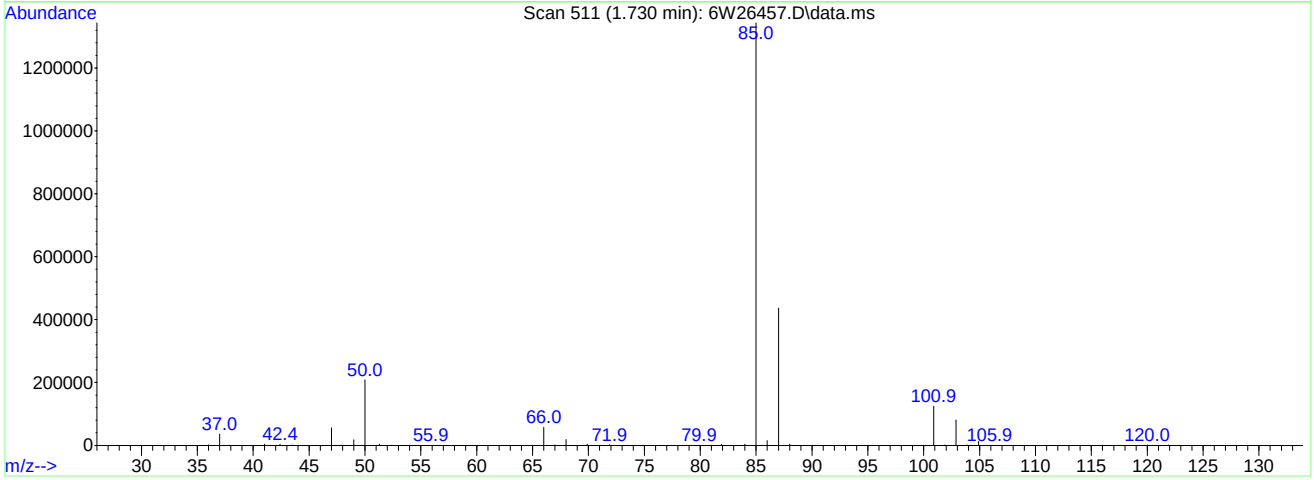
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.73 | Overlapping peak |
| m,p-Xylene | | | 12.02 | Split peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26457.D
Acq On : 20 Oct 2022 12:03 am
Operator : thomash
Sample : ic1125-50
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:51:22 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26457.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (+0.000) 61.45PPBV

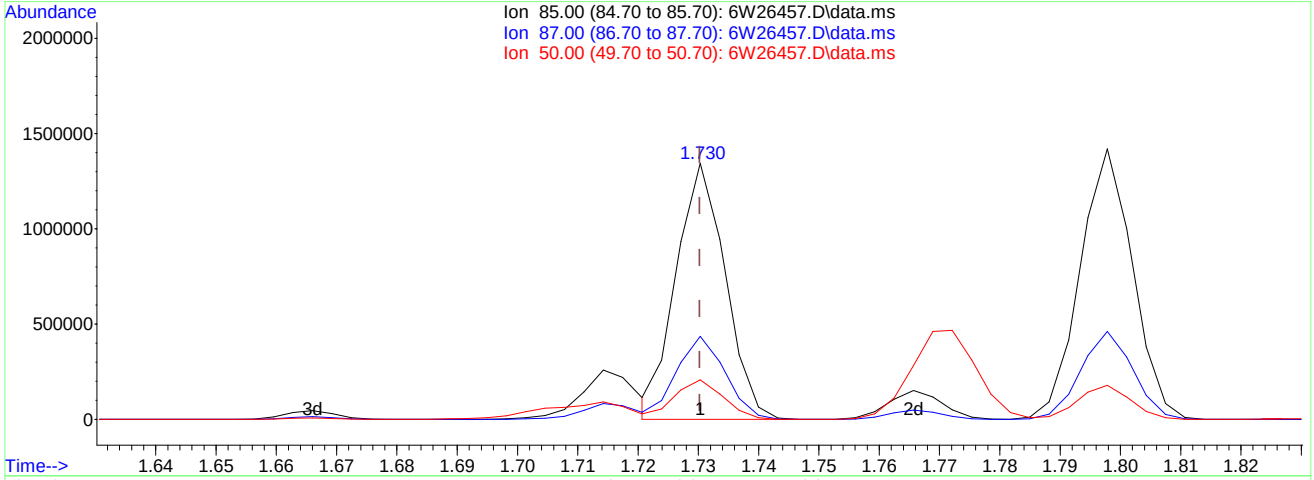
response 920555

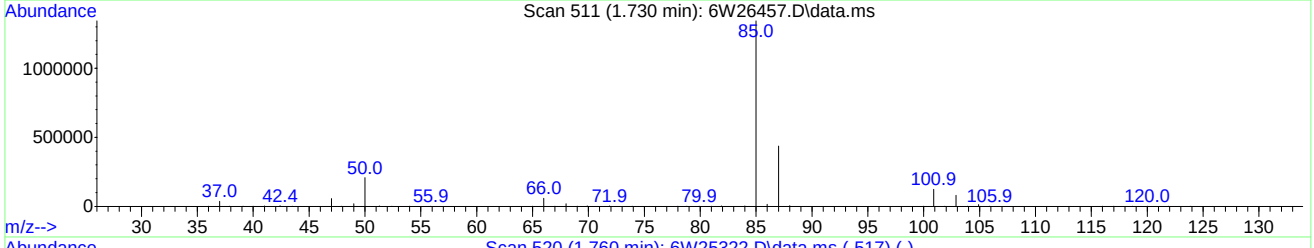
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.24 |
| 50.00 | 9.30 | 22.41# |
| 0.00 | 0.00 | 0.00 |

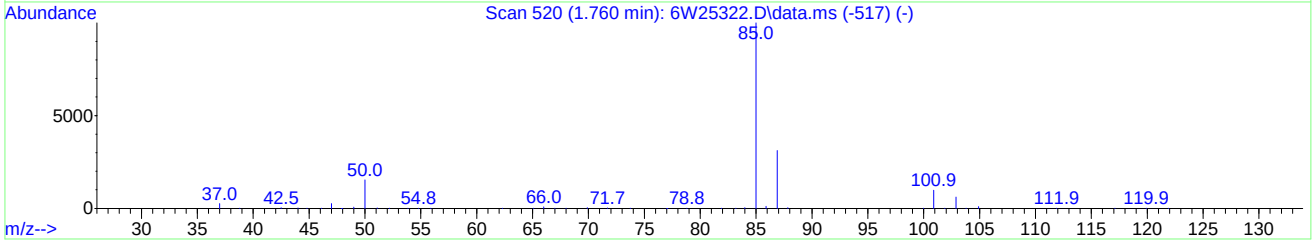
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26457.D
Acq On : 20 Oct 2022 12:03 am
Operator : thomash
Sample : ic1125-50
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:51:22 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26457.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (+0.000) 50.80PPBV m

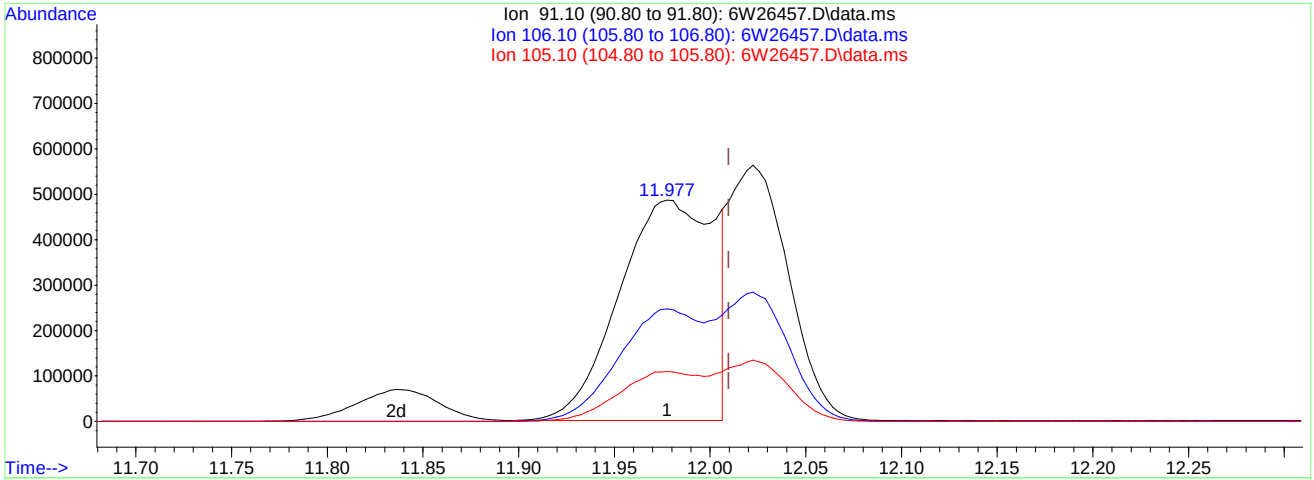
response 760993

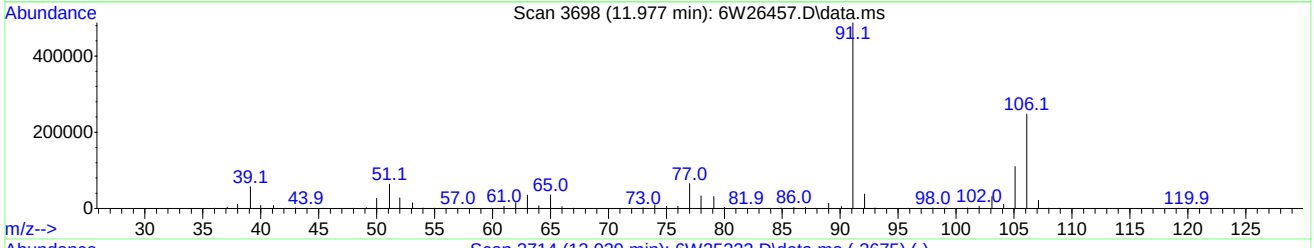
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 39.00# |
| 50.00 | 9.30 | 27.11# |
| 0.00 | 0.00 | 0.00 |

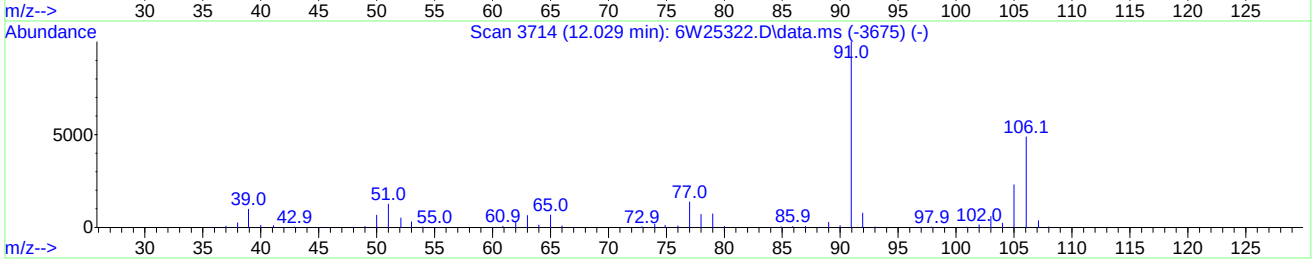
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26457.D
Acq On : 20 Oct 2022 12:03 am
Operator : thomash
Sample : ic1125-50
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:51:22 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26457.D\data.ms

(80) M,P-XYLENE (t)

11.977min (-0.032) 60.92PPBV

response 1679843

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 45.60 |
| 105.10 | 23.60 | 20.28 |
| 0.00 | 0.00 | 0.00 |

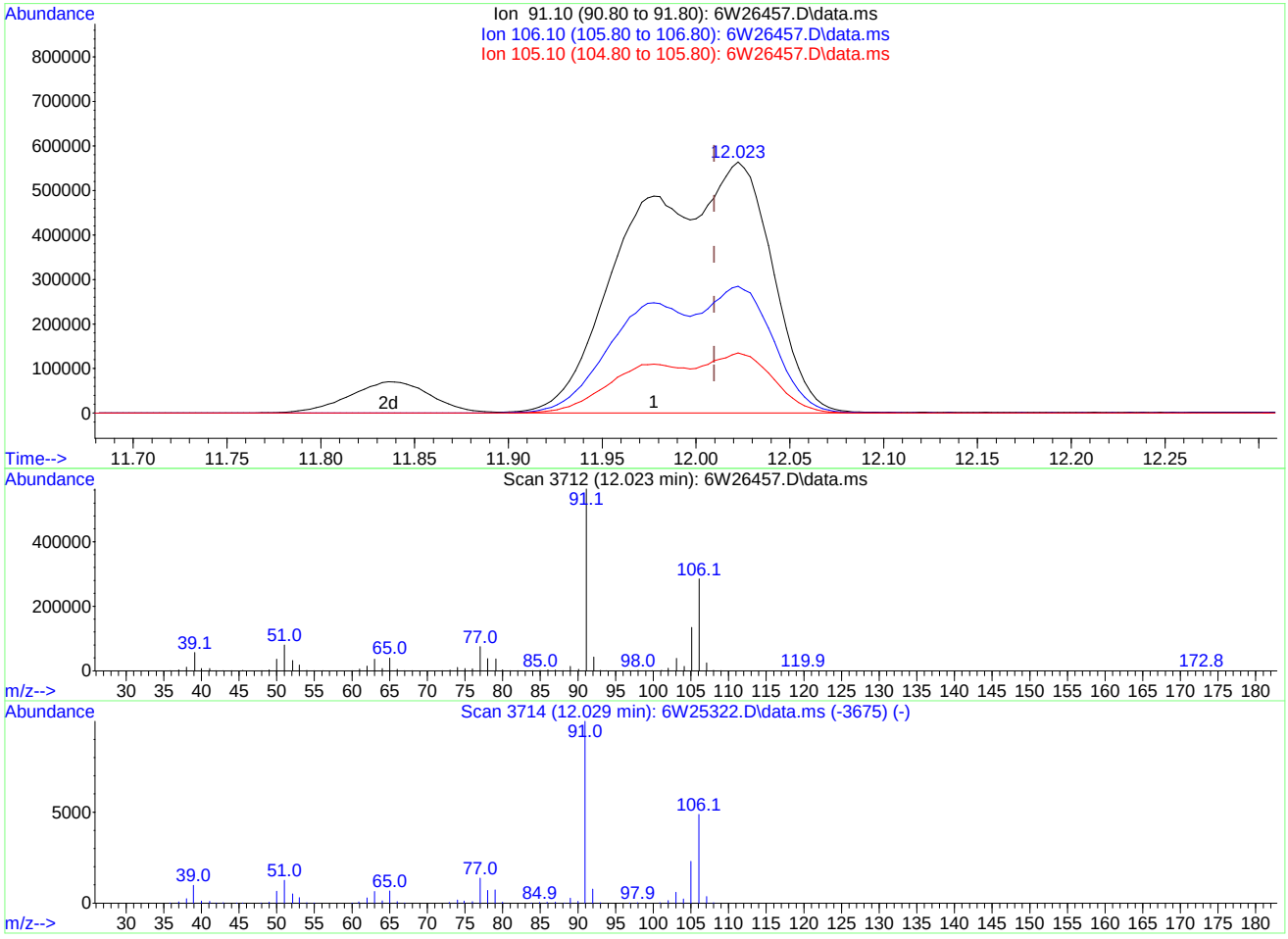


6W26457.D edits: M,P-XYLENE

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26457.D
Acq On : 20 Oct 2022 12:03 am
Operator : thomash
Sample : ic1125-50
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:51:22 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration




TIC: 6W26457.D\data.ms

(80) M,P-XYLENE (t)

12.023min (+0.013) 104.90PPBV m

response 2892477

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 26.48# |
| 105.10 | 23.60 | 11.78 |
| 0.00 | 0.00 | 0.00 |







6W26457.D edits: M,P-XYLENE

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/20/22 12:15

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26462.D
Acq On : 20 Oct 2022 9:08 am
Operator : thomash
Sample : icv1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:33:55 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 47437 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.730 | 114 | 233994 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 223956 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.019 | 95 | 158390 | 10.13 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 42315 | 10.38 | PPBV | # | 74 |
| 4) CHLORODIFLUOROMETHANE | 1.708 | 67 | 18777 | 10.16 | PPBV | | 96 |
| 5) CHLOROTRIFLUOROETHENE | 1.717 | 116 | 91347 | 10.23 | PPBV | # | 99 |
| 6) DICHLORODIFLUOROMETHANE | 1.730 | 85 | 156989m | 10.58 | PPBV | | |
| 7) PROPYLENE | 1.714 | 41 | 62221 | 10.24 | PPBV | | 96 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 139422 | 10.26 | PPBV | # | 86 |
| 9) FREON 114 | 1.798 | 85 | 158149 | 10.13 | PPBV | | 96 |
| 10) CHLOROMETHANE | 1.772 | 52 | 21693 | 10.12 | PPBV | | 94 |
| 11) VINYL CHLORIDE | 1.830 | 62 | 65451 | 10.07 | PPBV | | 97 |
| 12) 1,3-BUTADIENE | 1.865 | 54 | 55315 | 10.41 | PPBV | # | 73 |
| 13) N-BUTANE | 1.878 | 43 | 111808 | 9.33 | PPBV | # | 91 |
| 14) BROMOMETHANE | 1.933 | 94 | 52086 | 10.36 | PPBV | | 100 |
| 15) CHLOROETHANE | 1.978 | 64 | 32770 | 10.53 | PPBV | | 94 |
| 16) DICHLOROFLUOROMETHANE | 2.000 | 67 | 134666 | 10.20 | PPBV | # | 95 |
| 17) ACETONITRILE | 2.065 | 41 | 67287 | 9.65 | PPBV | | 97 |
| 18) ACROLEIN | 2.100 | 56 | 29314 | 10.16 | PPBV | | 99 |
| 19) FREON 123 | 2.113 | 83 | 131588 | 10.51 | PPBV | | 93 |
| 20) FREON 123A | 2.129 | 117 | 86126 | 11.40 | PPBV | | 86 |
| 21) TRICHLOROFLUOROMETHANE | 2.190 | 101 | 157212 | 10.16 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.206 | 45 | 146415 | 9.38 | PPBV | # | 96 |
| 23) ACETONE | 2.139 | 58 | 34982 | 9.96 | PPBV | # | 33 |
| 24) PENTANE | 2.296 | 42 | 80052 | 9.62 | PPBV | # | 94 |
| 25) IODOMETHANE | 2.354 | 142 | 145044 | 9.73 | PPBV | # | 84 |
| 26) 1,1-DICHLOROETHYLENE | 2.383 | 96 | 55100 | 9.37 | PPBV | # | 52 |
| 27) CARBON DISULFIDE | 2.518 | 76 | 158110 | 8.49 | PPBV | # | 85 |
| 28) ETHANOL | 2.007 | 45 | 38760 | 10.76 | PPBV | # | 96 |
| 29) BROMOETHENE | 2.071 | 106 | 54264 | 10.30 | PPBV | # | 98 |
| 30) ACRYLONITRILE | 2.270 | 52 | 51960 | 9.87 | PPBV | | 95 |
| 31) METHYLENE CHLORIDE | 2.418 | 84 | 48842 | 8.28 | PPBV | # | 42 |
| 32) 3-CHLOROPROPENE | 2.460 | 76 | 26504 | 9.23 | PPBV | # | 1 |
| 33) FREON 113 | 2.518 | 151 | 91762 | 8.80 | PPBV | | 87 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 62540 | 9.52 | PPBV | # | 77 |
| 35) TERTIARY BUTYL ALCOHOL | 2.396 | 59 | 115504 | 9.05 | PPBV | # | 94 |
| 36) METHYL TERTIARY BUTYL ... | 2.888 | 73 | 165951 | 10.16 | PPBV | # | 90 |
| 37) TETRAHYDROFURAN | 3.653 | 72 | 30116 | 9.92 | PPBV | # | 34 |
| 38) HEXANE | 3.389 | 57 | 128292 | 10.07 | PPBV | # | 74 |
| 39) VINYL ACETATE | 2.930 | 86 | 15728 | 9.99 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.849 | 63 | 126305 | 10.09 | PPBV | | 98 |
| 41) METHYL ETHYL KETONE | 3.036 | 72 | 31791 | 9.96 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.251 | 96 | 65428 | 9.49 | PPBV | # | 75 |
| 43) DIISOPROPYL ETHER | 3.396 | 59 | 36125 | 9.87 | PPBV | # | 36 |
| 44) ETHYL ACETATE | 3.402 | 61 | 25425 | 10.11 | PPBV | # | 9 |
| 45) METHYL ACRYLATE | 3.389 | 55 | 160519 | 10.19 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.418 | 83 | 133863 | 9.46 | PPBV | # | 93 |
| 47) 2,4-DIMETHYLPENTANE | 3.952 | 57 | 148602 | 10.33 | PPBV | # | 92 |
| 48) 1,1,1-TRICHLOROETHANE | 4.039 | 97 | 133393 | 9.60 | PPBV | # | 92 |
| 49) CARBON TETRACHLORIDE | 4.495 | 117 | 142449 | 9.56 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 3.865 | 62 | 107146 | 9.96 | PPBV | # | 93 |
| 51) BENZENE | 4.376 | 78 | 194518 | 9.20 | PPBV | | 76 |
| 53) CYCLOHEXANE | 4.598 | 84 | 84081 | 9.85 | PPBV | # | 67 |
| 54) 2,3-DIMETHYLPENTANE | 4.872 | 71 | 45326 | 9.75 | PPBV | # | 46 |
| 55) TRICHLOROETHENE | 5.344 | 95 | 86713 | 9.44 | PPBV | | 98 |
| 56) 1,2-DICHLOROPROPANE | 5.100 | 63 | 83363 | 9.88 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.055 | 174 | 77798 | 8.98 | PPBV | | 90 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26462.D
Acq On : 20 Oct 2022 9:08 am
Operator : thomash
Sample : icv1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:33:55 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

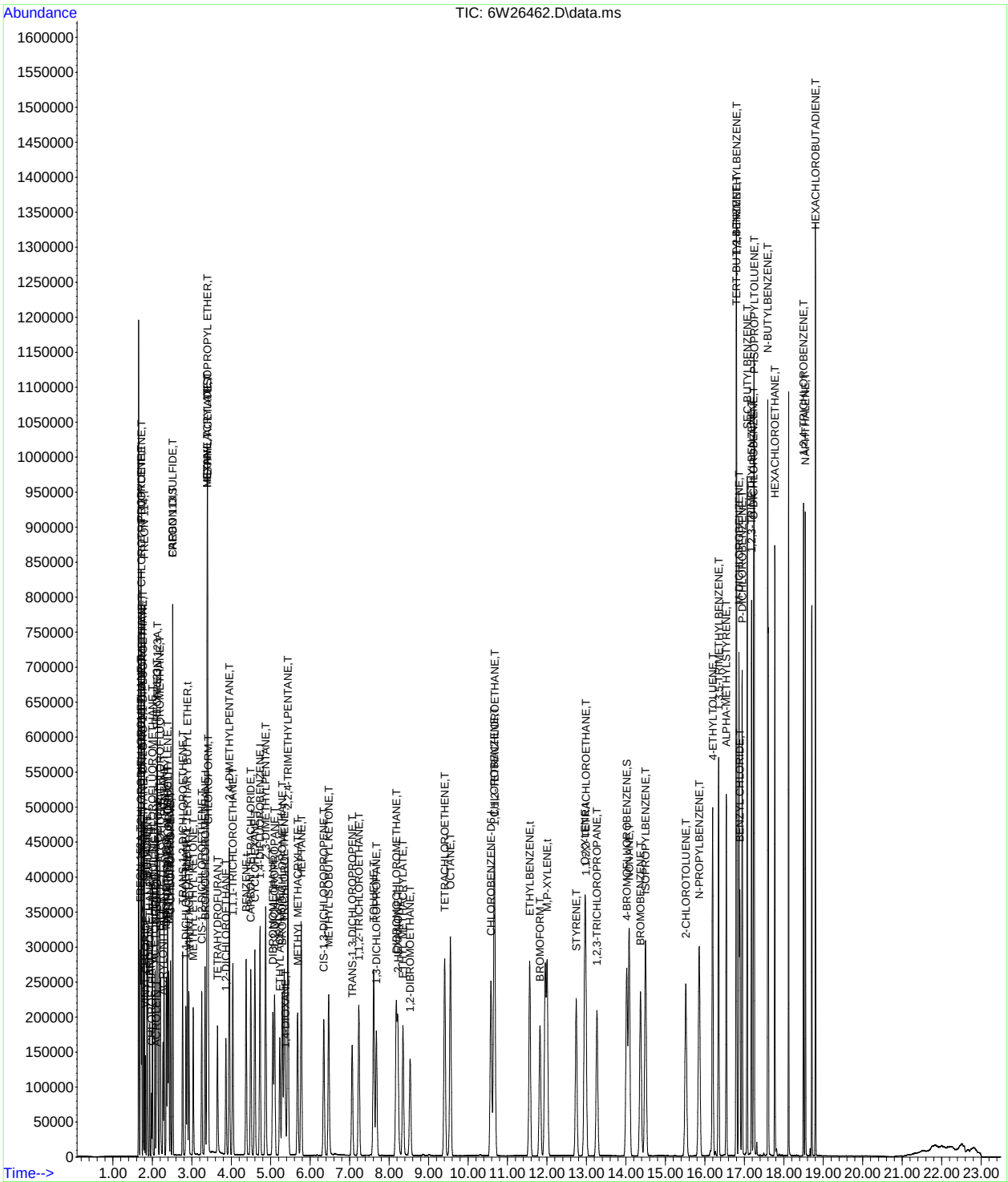
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.229 | 55 | 191235 | 10.69 | PPBV | # | 96 |
| 59) BROMODICHLOROMETHANE | 5.293 | 83 | 148702 | 9.61 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.438 | 57 | 402185 | 10.39 | PPBV | # | 98 |
| 61) 1,4-DIOXANE | 5.373 | 88 | 43069 | 10.67 | PPBV | # | 70 |
| 62) HEPTANE | 5.775 | 43 | 160441 | 10.29 | PPBV | # | 73 |
| 63) METHYL METHACRYLATE | 5.682 | 69 | 73460 | 9.83 | PPBV | # | 41 |
| 64) METHYL ISOBUTYL KETONE | 6.466 | 58 | 71816 | 11.36 | PPBV | # | 60 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.344 | 75 | 121546 | 10.88 | PPBV | # | 72 |
| 66) TOLUENE | 7.608 | 91 | 248582 | 9.60 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.675 | 76 | 126893 | 10.17 | PPBV | # | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.064 | 75 | 103164 | 10.47 | PPBV | # | 74 |
| 69) 1,1,2-TRICHLOROETHANE | 7.235 | 83 | 73991 | 10.01 | PPBV | | 98 |
| 70) 2-HEXANONE | 8.222 | 58 | 91501 | 12.42 | PPBV | # | 60 |
| 71) ETHYL METHACRYLATE | 8.351 | 69 | 121309 | 11.01 | PPBV | # | 68 |
| 72) TETRACHLOROETHENE | 9.408 | 164 | 94636 | 10.58 | PPBV | | 92 |
| 73) DIBROMOCHLOROMETHANE | 8.180 | 129 | 163474 | 10.24 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.531 | 107 | 136603 | 10.09 | PPBV | | 100 |
| 75) OCTANE | 9.553 | 43 | 220193 | 10.67 | PPBV | # | 74 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.675 | 131 | 111154 | 9.25 | PPBV | | 97 |
| 78) CHLOROBENZENE | 10.659 | 112 | 206823 | 9.56 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.559 | 91 | 323736 | 8.40 | PPBV | | 100 |
| 80) M,P-XYLENE | 12.003 | 91 | 500976 | 17.40 | PPBV | # | 69 |
| 81) O-XYLENE | 12.958 | 91 | 255001 | 8.85 | PPBV | | 98 |
| 82) STYRENE | 12.739 | 104 | 182497 | 9.47 | PPBV | | 97 |
| 83) NONANE | 14.083 | 43 | 230186 | 9.28 | PPBV | # | 74 |
| 84) BROMOFORM | 11.820 | 173 | 146828 | 9.34 | PPBV | # | 97 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.981 | 83 | 191853 | 9.37 | PPBV | | 99 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.264 | 75 | 145786 | 9.10 | PPBV | | 99 |
| 88) ISOPROPYLBENZENE | 14.495 | 105 | 366488 | 9.22 | PPBV | # | 93 |
| 89) BROMOBENZENE | 14.373 | 77 | 178240 | 9.30 | PPBV | | 96 |
| 90) 2-CHLOROTOLUENE | 15.521 | 91 | 245770 | 9.47 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.855 | 91 | 429418 | 9.81 | PPBV | # | 97 |
| 92) 4-ETHYLTOLUENE | 16.199 | 105 | 363789 | 10.27 | PPBV | | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.347 | 105 | 295002 | 9.85 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.543 | 118 | 128522 | 8.56 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.797 | 119 | 327236 | 9.74 | PPBV | | 99 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.804 | 105 | 301145 | 9.73 | PPBV | | 97 |
| 97) BENZYL CHLORIDE | 16.887 | 91 | 173940 | 9.28 | PPBV | | 98 |
| 98) M-DICHLOROBENZENE | 16.865 | 146 | 199466 | 9.27 | PPBV | | 99 |
| 99) P-DICHLOROBENZENE | 16.945 | 146 | 201407 | 9.38 | PPBV | | 99 |
| 100) O-DICHLOROBENZENE | 17.234 | 146 | 190368 | 9.05 | PPBV | | 99 |
| 101) SEC-BUTYLBENZENE | 17.074 | 105 | 443476 | 9.68 | PPBV | | 99 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.183 | 105 | 287306 | 9.48 | PPBV | | 99 |
| 103) P-ISOPROPYLTOLUENE | 17.251 | 119 | 368720 | 9.39 | PPBV | | 97 |
| 104) N-BUTYLBENZENE | 17.595 | 91 | 347673 | 9.96 | PPBV | | 98 |
| 105) HEXACHLOROETHANE | 17.771 | 117 | 110715 | 7.76 | PPBV | # | 89 |
| 106) HEXACHLOROBUTADIENE | 18.804 | 225 | 113599 | 7.29 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.498 | 180 | 141128 | 8.07 | PPBV | | 99 |
| 108) NAPHTHALENE | 18.546 | 128 | 372884 | 8.65 | PPBV | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26462.D
Acq On : 20 Oct 2022 9:08 am
Operator : thomash
Sample : icv1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:33:55 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



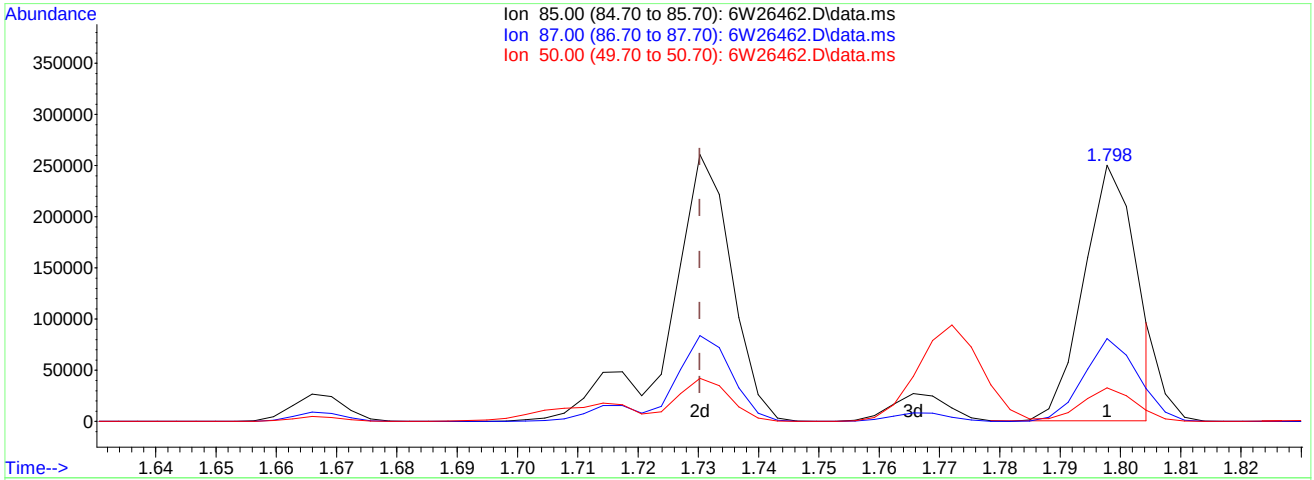
**Sample Number:** V6W1125-ICV1125 **Method:** TO-15
**Lab FileID:** 6W26462.D **Analyst approved:** 10/20/22 10:04 Thomas Hilbig
**Injection Time:** 10/20/22 09:08 **Supervisor approved:** 10/20/22 12:15 Kanya Veerawat

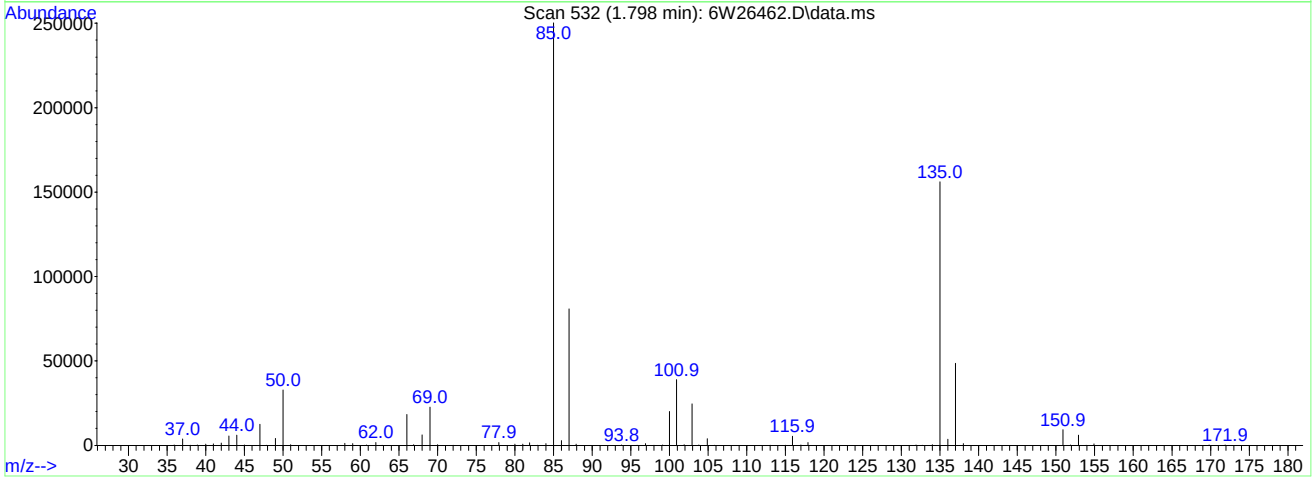
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.73 | Missed peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26462.D
Acq On : 20 Oct 2022 9:08 am
Operator : thomash
Sample : icv1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:33:03 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26462.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.798min (+0.068) 10.18PPBV

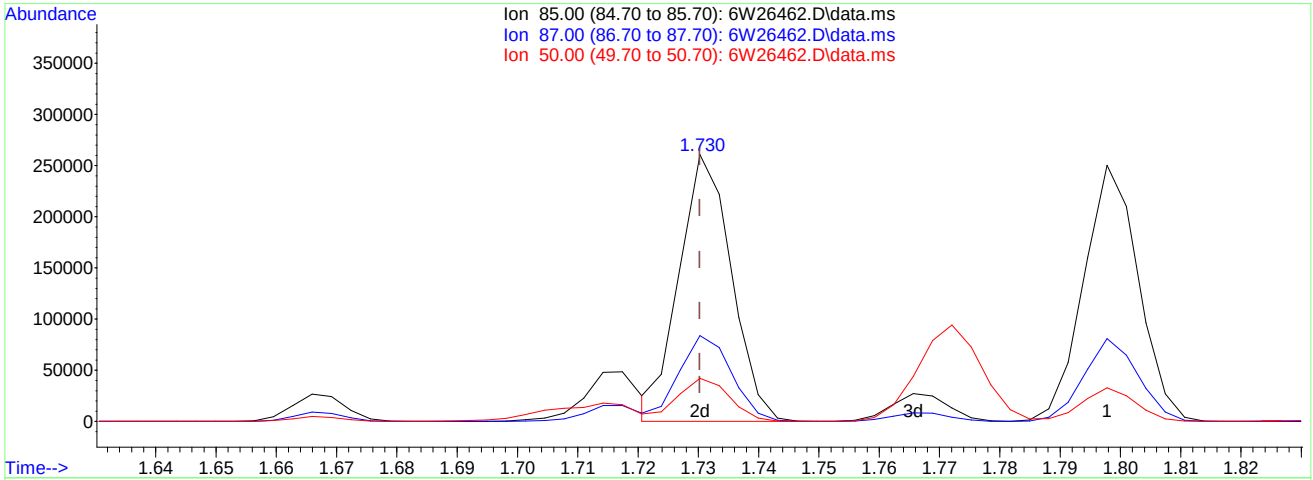
response 150961

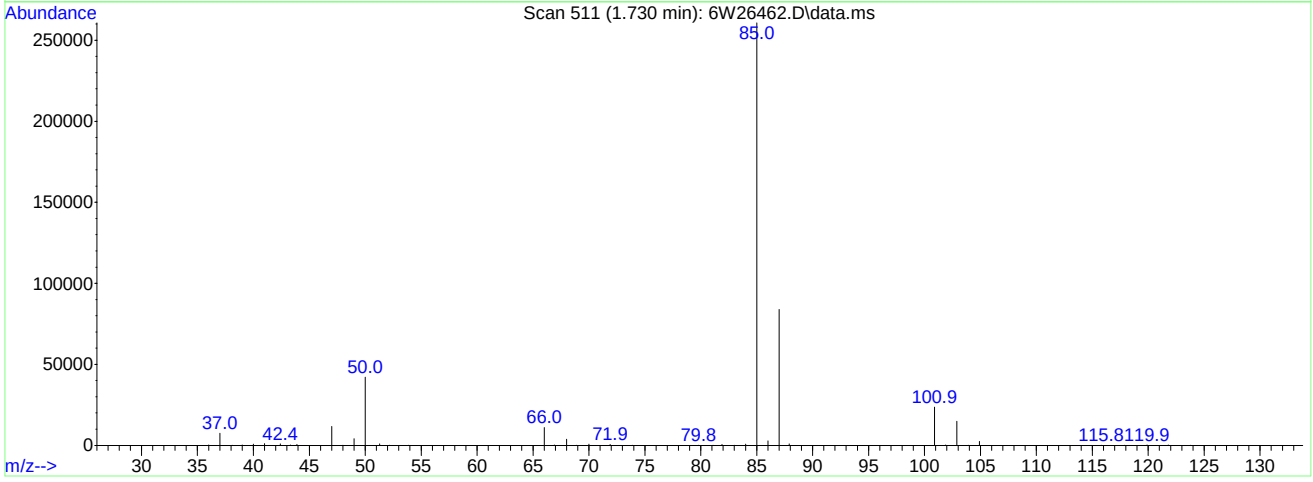
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.06 |
| 50.00 | 9.30 | 11.14 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26462.D
Acq On : 20 Oct 2022 9:08 am
Operator : thomash
Sample : icv1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:33:03 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26462.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (+0.000) 10.58PPBV m

response 156989

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 30.83 |
| 50.00 | 9.30 | 10.71 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/07/22 15:11

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26823.D
Acq On : 3 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:13:41 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.341 | 128 | 45375 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.733 | 114 | 225669 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.588 | 117 | 185640 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.022 | 95 | 132668 | 10.23 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 31975m | 8.20 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.708 | 67 | 14062 | 7.95 | PPBV | | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.717 | 116 | 72944 | 8.54 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.733 | 85 | 168749 | 11.89 | PPBV | # | 93 |
| 7) PROPYLENE | 1.717 | 41 | 45398 | 7.81 | PPBV | | 97 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.769 | 65 | 123967 | 9.54 | PPBV | # | 89 |
| 9) FREON 114 | 1.801 | 85 | 150357 | 10.07 | PPBV | | 97 |
| 10) CHLOROMETHANE | 1.775 | 52 | 20006 | 9.76 | PPBV | | 94 |
| 11) VINYL CHLORIDE | 1.830 | 62 | 64266 | 10.34 | PPBV | | 98 |
| 12) 1,3-BUTADIENE | 1.865 | 54 | 53584 | 10.54 | PPBV | # | 78 |
| 13) N-BUTANE | 1.881 | 43 | 107934 | 9.42 | PPBV | # | 91 |
| 14) BROMOMETHANE | 1.936 | 94 | 53297 | 11.09 | PPBV | | 100 |
| 15) CHLOROETHANE | 1.981 | 64 | 32988 | 11.08 | PPBV | | 97 |
| 16) DICHLOROFLUOROMETHANE | 2.004 | 67 | 133169 | 10.54 | PPBV | # | 95 |
| 17) ACETONITRILE | 2.068 | 41 | 68780 | 10.31 | PPBV | | 98 |
| 18) ACROLEIN | 2.103 | 56 | 32341 | 11.71 | PPBV | | 99 |
| 19) FREON 123 | 2.116 | 83 | 129664 | 10.82 | PPBV | | 96 |
| 20) FREON 123A | 2.132 | 117 | 75673 | 10.47 | PPBV | | 84 |
| 21) TRICHLOROFLUOROMETHANE | 2.193 | 101 | 146984 | 9.93 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.209 | 45 | 139144 | 9.32 | PPBV | # | 94 |
| 23) ACETONE | 2.139 | 58 | 35047 | 10.43 | PPBV | # | 47 |
| 24) PENTANE | 2.299 | 42 | 78292 | 9.83 | PPBV | # | 95 |
| 25) IODOMETHANE | 2.357 | 142 | 151477 | 10.62 | PPBV | # | 88 |
| 26) 1,1-DICHLOROETHYLENE | 2.386 | 96 | 55922 | 9.94 | PPBV | # | 57 |
| 27) CARBON DISULFIDE | 2.521 | 76 | 176365 | 9.90 | PPBV | # | 91 |
| 28) ETHANOL | 2.007 | 45 | 33840 | 9.82 | PPBV | | 96 |
| 29) BROMOETHENE | 2.074 | 106 | 54785 | 10.87 | PPBV | # | 99 |
| 30) ACRYLONITRILE | 2.274 | 52 | 53358 | 10.60 | PPBV | | 97 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 52891 | 9.37 | PPBV | # | 54 |
| 32) 3-CHLOROPROPENE | 2.463 | 76 | 27708 | 10.09 | PPBV | # | 1 |
| 33) FREON 113 | 2.521 | 151 | 94580 | 9.48 | PPBV | | 87 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.772 | 96 | 62066 | 9.88 | PPBV | # | 80 |
| 35) TERTIARY BUTYL ALCOHOL | 2.396 | 59 | 105691 | 8.66 | PPBV | # | 82 |
| 36) METHYL TERTIARY BUTYL ... | 2.891 | 73 | 124436 | 7.96 | PPBV | # | 92 |
| 37) TETRAHYDROFURAN | 3.656 | 72 | 30557 | 10.52 | PPBV | # | 42 |
| 38) HEXANE | 3.393 | 57 | 117550 | 9.65 | PPBV | # | 78 |
| 39) VINYL ACETATE | 2.933 | 86 | 15252 | 10.13 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.856 | 63 | 115664 | 9.66 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.039 | 72 | 31375 | 10.28 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.258 | 96 | 64035 | 9.71 | PPBV | # | 80 |
| 43) DIISOPROPYL ETHER | 3.402 | 59 | 31745 | 9.06 | PPBV | # | 44 |
| 44) ETHYL ACETATE | 3.409 | 61 | 24784 | 10.30 | PPBV | # | 43 |
| 45) METHYL ACRYLATE | 3.393 | 55 | 153999 | 10.22 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.425 | 83 | 126972 | 9.39 | PPBV | # | 93 |
| 47) 2,4-DIMETHYLPENTANE | 3.955 | 57 | 136921 | 9.95 | PPBV | # | 92 |
| 48) 1,1,1-TRICHLOROETHANE | 4.045 | 97 | 115264 | 8.67 | PPBV | # | 90 |
| 49) CARBON TETRACHLORIDE | 4.499 | 117 | 126625 | 8.88 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.868 | 62 | 93492 | 9.08 | PPBV | # | 95 |
| 51) BENZENE | 4.380 | 78 | 189179 | 9.35 | PPBV | | 80 |
| 53) CYCLOHEXANE | 4.605 | 84 | 80553 | 9.79 | PPBV | # | 71 |
| 54) 2,3-DIMETHYLPENTANE | 4.875 | 71 | 43953 | 9.81 | PPBV | # | 55 |
| 55) TRICHLOROETHENE | 5.347 | 95 | 78687 | 8.88 | PPBV | | 99 |
| 56) 1,2-DICHLOROPROPANE | 5.103 | 63 | 80676 | 9.92 | PPBV | | 99 |
| 57) DIBROMOMETHANE | 5.061 | 174 | 73594 | 8.81 | PPBV | | 88 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26823.D
Acq On : 3 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:13:41 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

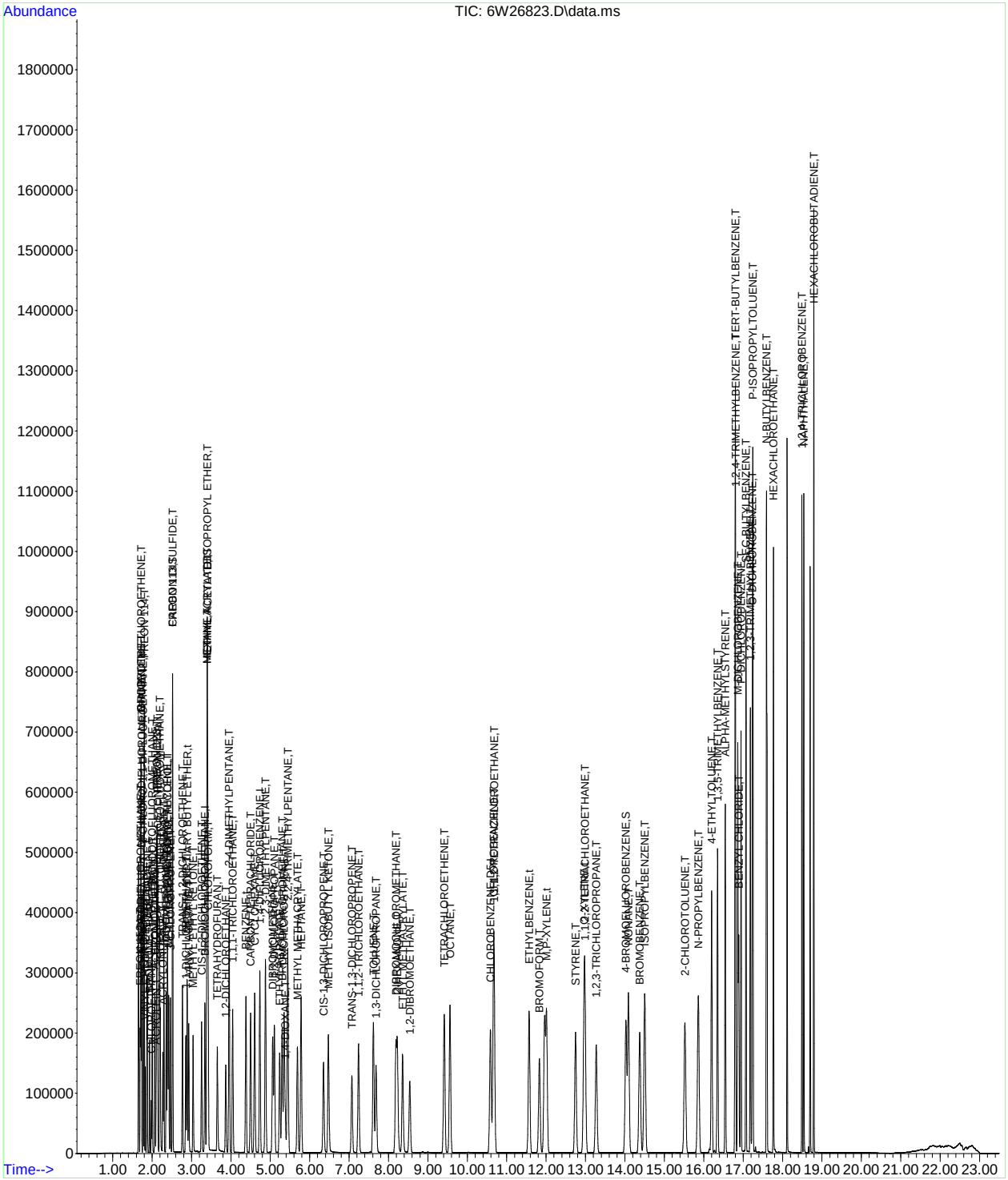
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.238 | 55 | 188544 | 10.92 | PPBV | # | 97 |
| 59) BROMODICHLOROMETHANE | 5.299 | 83 | 132174 | 8.86 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.444 | 57 | 323621 | 8.67 | PPBV | | 97 |
| 61) 1,4-DIOXANE | 5.380 | 88 | 42627 | 10.95 | PPBV | # | 79 |
| 62) HEPTANE | 5.782 | 43 | 125129 | 8.32 | PPBV | # | 76 |
| 63) METHYL METHACRYLATE | 5.688 | 69 | 68314 | 9.48 | PPBV | # | 58 |
| 64) METHYL ISOBUTYL KETONE | 6.476 | 58 | 64967 | 10.65 | PPBV | # | 68 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.354 | 75 | 93683 | 8.69 | PPBV | # | 75 |
| 66) TOLUENE | 7.617 | 91 | 207918 | 8.33 | PPBV | | 98 |
| 67) 1,3-DICHLOROPROPANE | 7.685 | 76 | 107958 | 8.97 | PPBV | # | 97 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.071 | 75 | 83285 | 8.77 | PPBV | # | 79 |
| 69) 1,1,2-TRICHLOROETHANE | 7.241 | 83 | 63758 | 8.94 | PPBV | | 98 |
| 70) 2-HEXANONE | 8.225 | 58 | 87133 | 12.27 | PPBV | # | 67 |
| 71) ETHYL METHACRYLATE | 8.360 | 69 | 112169 | 10.56 | PPBV | # | 73 |
| 72) TETRACHLOROETHENE | 9.415 | 164 | 79370 | 9.20 | PPBV | | 93 |
| 73) DIBROMOCHLOROMETHANE | 8.187 | 129 | 134069 | 8.71 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.540 | 107 | 118295 | 9.06 | PPBV | | 99 |
| 75) OCTANE | 9.563 | 43 | 170876 | 8.59 | PPBV | # | 77 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.682 | 131 | 91112 | 9.15 | PPBV | | 95 |
| 78) CHLOROBENZENE | 10.666 | 112 | 173170 | 9.65 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.569 | 91 | 278188 | 8.70 | PPBV | | 99 |
| 80) M,P-XYLENE | 12.006 | 91 | 433064m | 18.15 | PPBV | | |
| 81) O-XYLENE | 12.965 | 91 | 220004 | 9.21 | PPBV | | 98 |
| 82) STYRENE | 12.749 | 104 | 167463 | 10.49 | PPBV | | 97 |
| 83) NONANE | 14.090 | 43 | 183186 | 8.91 | PPBV | # | 77 |
| 84) BROMOFORM | 11.826 | 173 | 122685 | 9.42 | PPBV | # | 98 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.990 | 83 | 170575 | 10.05 | PPBV | | 98 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.270 | 75 | 129281 | 9.74 | PPBV | | 98 |
| 88) ISOPROPYLBENZENE | 14.501 | 105 | 318450 | 9.67 | PPBV | # | 94 |
| 89) BROMOBENZENE | 14.376 | 77 | 157194 | 9.89 | PPBV | | 95 |
| 90) 2-CHLOROTOLUENE | 15.524 | 91 | 221919 | 10.32 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.861 | 91 | 385515 | 10.63 | PPBV | # | 95 |
| 92) 4-ETHYLTOLUENE | 16.202 | 105 | 323236 | 11.01 | PPBV | | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.350 | 105 | 265955 | 10.71 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.546 | 118 | 145366 | 11.69 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.800 | 119 | 300408 | 10.78 | PPBV | | 98 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.807 | 105 | 280452 | 10.94 | PPBV | | 96 |
| 97) BENZYL CHLORIDE | 16.890 | 91 | 174420 | 11.22 | PPBV | | 98 |
| 98) M-DICHLOROBENZENE | 16.865 | 146 | 188360 | 10.56 | PPBV | | 99 |
| 99) P-DICHLOROBENZENE | 16.945 | 146 | 191547 | 10.76 | PPBV | | 99 |
| 100) O-DICHLOROBENZENE | 17.234 | 146 | 184450 | 10.57 | PPBV | | 99 |
| 101) SEC-BUTYLBENZENE | 17.070 | 105 | 412980 | 10.87 | PPBV | | 99 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.183 | 105 | 273180 | 10.88 | PPBV | | 99 |
| 103) P-ISOPROPYLTOLUENE | 17.247 | 119 | 361187 | 11.09 | PPBV | | 97 |
| 104) N-BUTYLBENZENE | 17.591 | 91 | 343081 | 11.86 | PPBV | | 98 |
| 105) HEXACHLOROETHANE | 17.768 | 117 | 118537 | 10.03 | PPBV | # | 90 |
| 106) HEXACHLOROBUTADIENE | 18.794 | 225 | 136467 | 10.56 | PPBV | | 100 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.492 | 180 | 169601 | 11.70 | PPBV | | 99 |
| 108) NAPHTHALENE | 18.540 | 128 | 453099 | 12.68 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26823.D
Acq On : 3 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:13:41 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



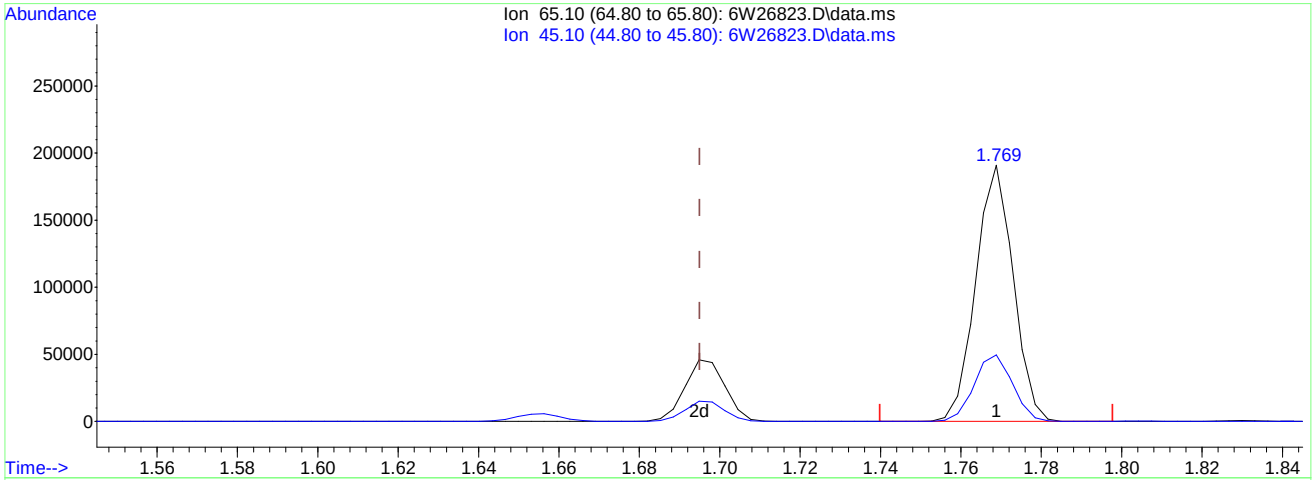
| | | | |
|---|---|---|---|
| **Sample Number:** | V6W1137-CC1125 | **Method:** | TO-15 |
| **Lab FileID:** | 6W26823.D | **Analyst approved:** | 11/04/22 15:23 William Cruser |
| **Injection Time:** | 11/03/22 09:36 | **Supervisor approved:** | 11/07/22 15:11 Kanya Veerawat |

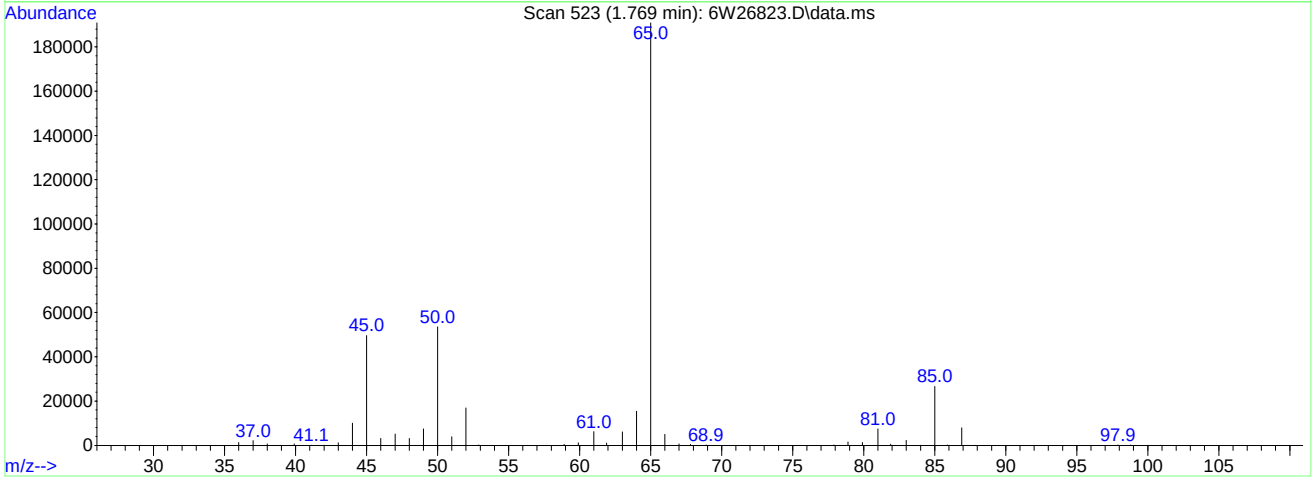
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.69 | Missed peak |
| m,p-Xylene | | | 12.01 | Split peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26823.D
Acq On : 3 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 03 10:04:48 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26823.D\data.ms

(3) FREON 152A (T)

1.769min (+0.074) 31.78PPBV

response 123971

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 22.90 | 26.59 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |





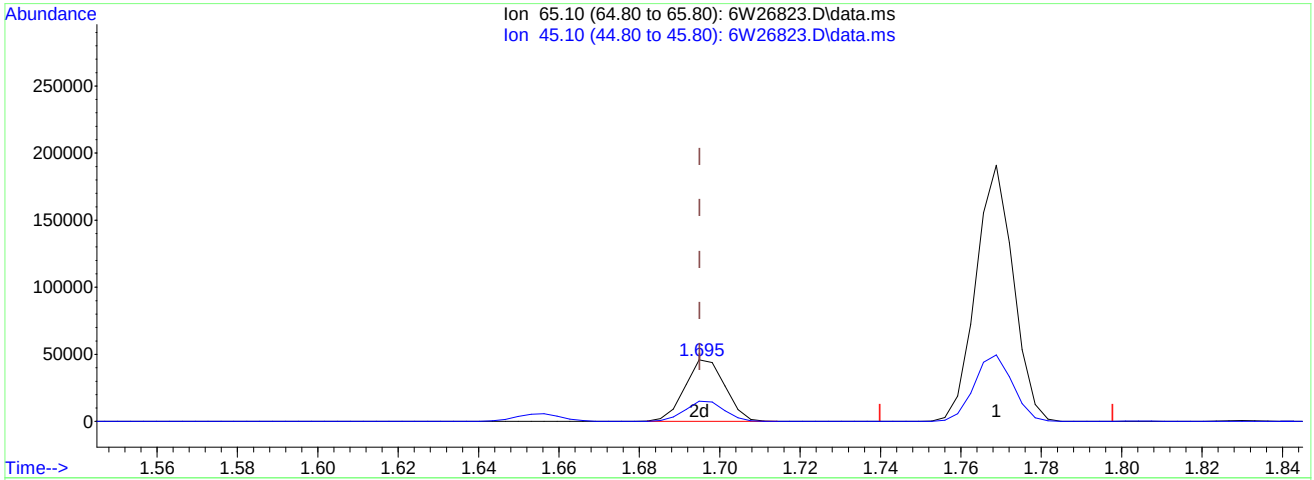


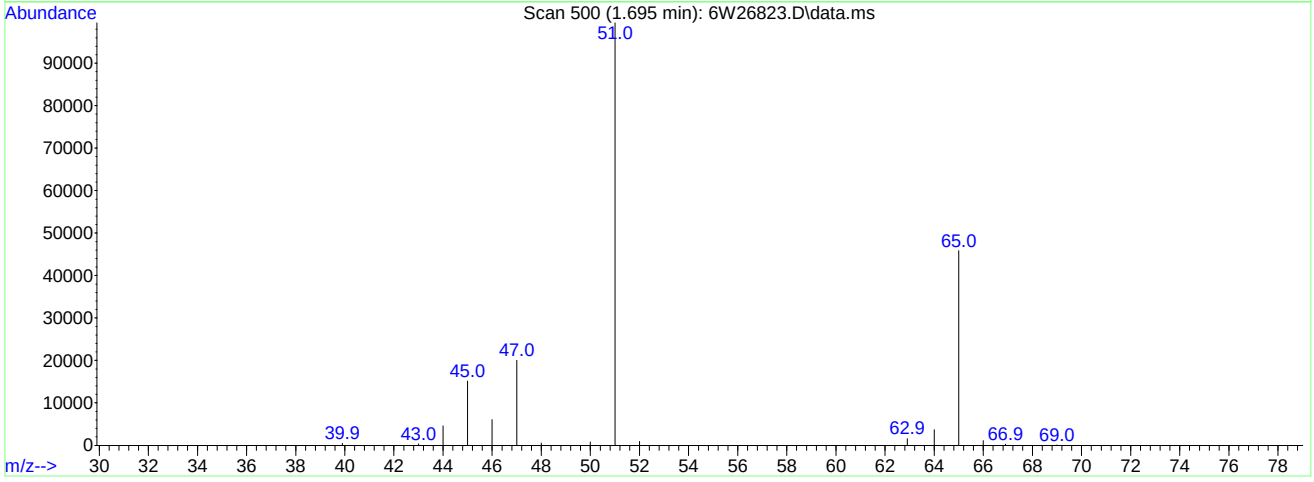
6W26823.D edits: FREON 152A

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26823.D
Acq On : 3 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 03 10:04:48 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26823.D\data.ms

(3) FREON 152A (T)

1.695min (-0.000) 8.20PPBV m

response 31975

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 22.90 | 103.09# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

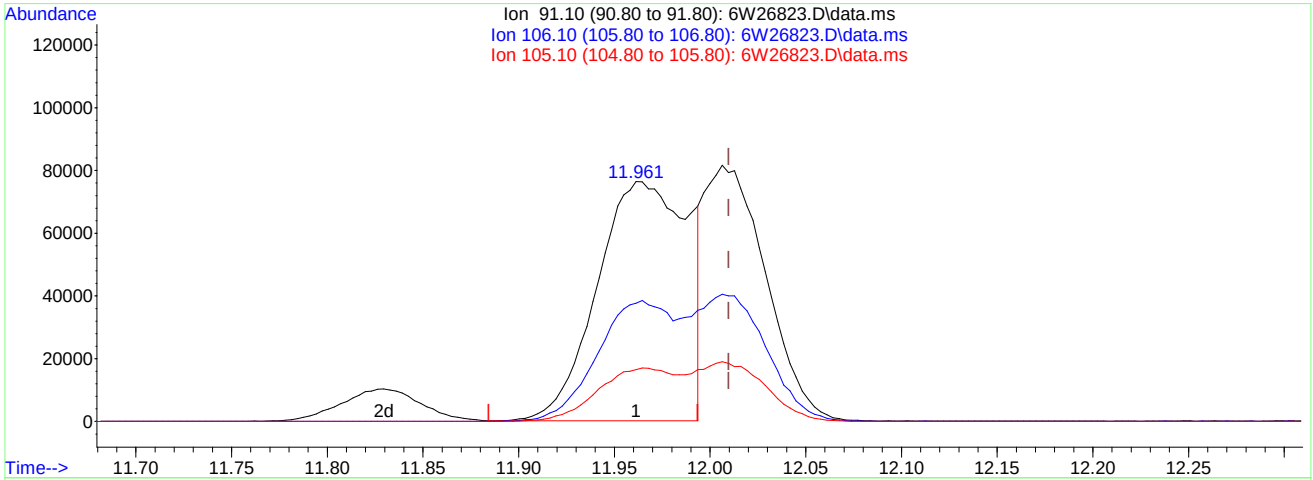


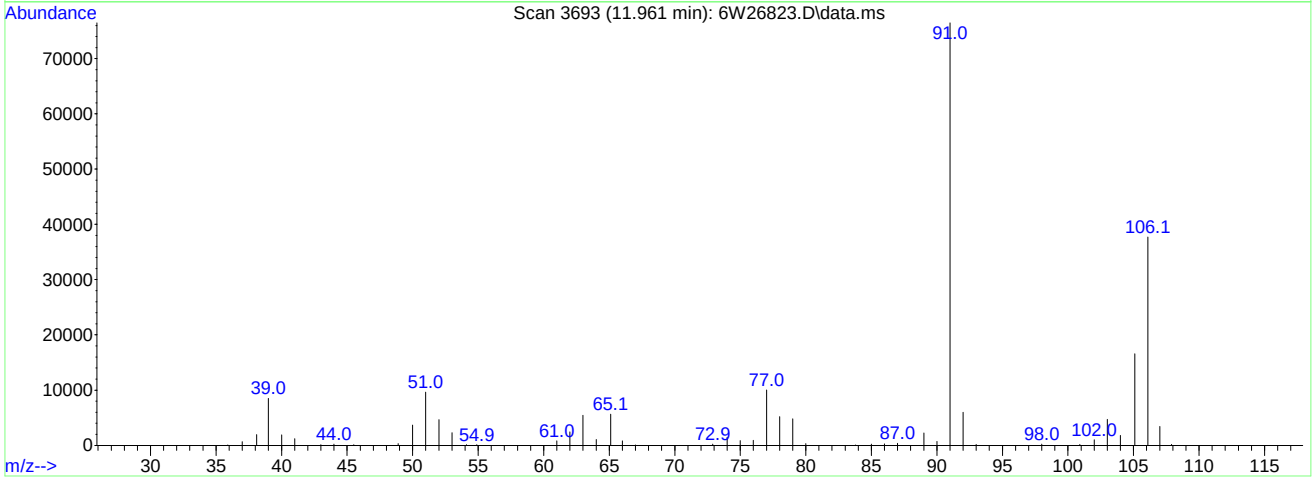
6W26823.D edits: FREON 152A

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26823.D
Acq On : 3 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 03 10:04:48 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26823.D\data.ms

(80) M,P-XYLENE (t)

11.961min (-0.048) 10.52PPBV

response 250975

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 39.75 |
| 105.10 | 23.60 | 17.68 |
| 0.00 | 0.00 | 0.00 |





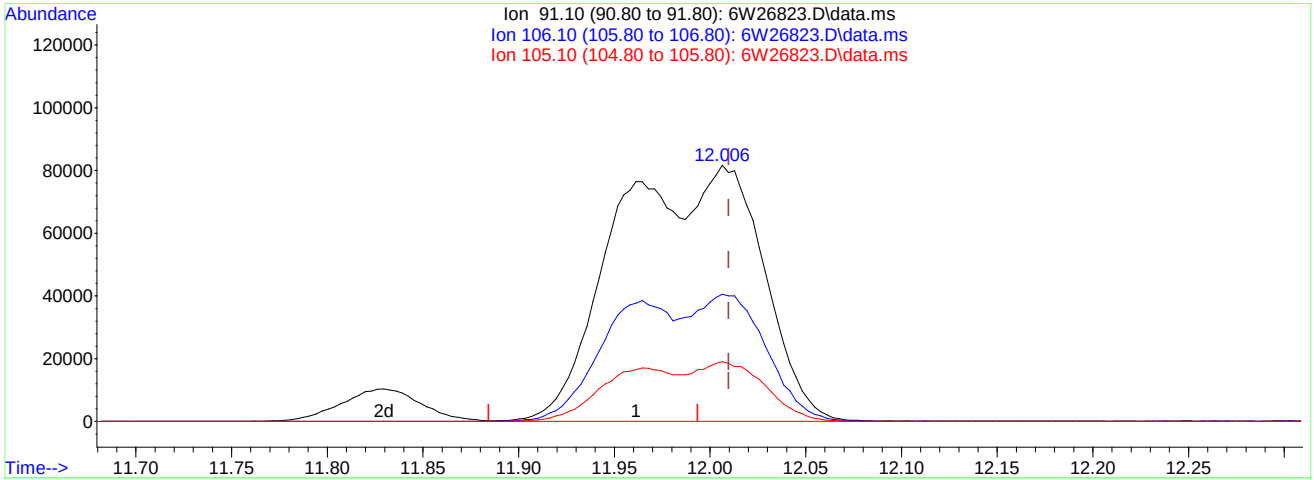


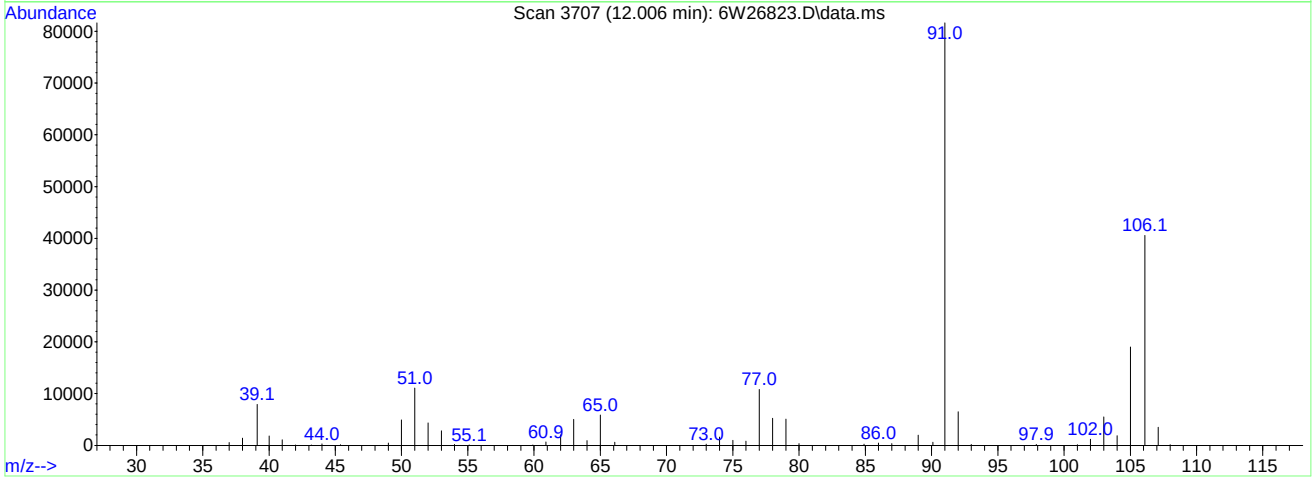
6W26823.D edits: M,P-XYLENE

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26823.D
Acq On : 3 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 03 10:04:48 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26823.D\data.ms

(80) M,P-XYLENE (t)

12.006min (-0.003) 18.15PPBV m

response 433064

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 23.04# |
| 105.10 | 23.60 | 10.25 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/08/22 16:17

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26863.D
Acq On : 4 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 15:58:48 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 45370 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.737 | 114 | 228035 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.588 | 117 | 188440 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.026 | 95 | 132750 | 10.09 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 34226m | 8.78 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.708 | 67 | 15503 | 8.77 | PPBV | | 98 |
| 5) CHLOROTRIFLUOROETHENE | 1.717 | 116 | 77654 | 9.09 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.798 | 85 | 148318 | 10.46 | PPBV | | 99 |
| 7) PROPYLENE | 1.717 | 41 | 48765 | 8.39 | PPBV | | 96 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.769 | 65 | 134261 | 10.33 | PPBV | # | 89 |
| 9) FREON 114 | 1.801 | 85 | 161290 | 10.81 | PPBV | | 97 |
| 10) CHLOROMETHANE | 1.772 | 52 | 21569 | 10.52 | PPBV | | 95 |
| 11) VINYL CHLORIDE | 1.830 | 62 | 69364 | 11.16 | PPBV | | 97 |
| 12) 1,3-BUTADIENE | 1.865 | 54 | 57215 | 11.26 | PPBV | # | 77 |
| 13) N-BUTANE | 1.878 | 43 | 115313 | 10.07 | PPBV | # | 91 |
| 14) BROMOMETHANE | 1.936 | 94 | 56258 | 11.70 | PPBV | | 100 |
| 15) CHLOROETHANE | 1.981 | 64 | 35281 | 11.85 | PPBV | | 96 |
| 16) DICHLOROFLUOROMETHANE | 2.004 | 67 | 142589 | 11.29 | PPBV | # | 96 |
| 17) ACETONITRILE | 2.068 | 41 | 73666 | 11.04 | PPBV | | 97 |
| 18) ACROLEIN | 2.103 | 56 | 33787 | 12.24 | PPBV | | 98 |
| 19) FREON 123 | 2.116 | 83 | 138169 | 11.53 | PPBV | | 96 |
| 20) FREON 123A | 2.132 | 117 | 81204 | 11.24 | PPBV | | 85 |
| 21) TRICHLOROFLUOROMETHANE | 2.193 | 101 | 156551 | 10.58 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.209 | 45 | 146208 | 9.80 | PPBV | # | 93 |
| 23) ACETONE | 2.139 | 58 | 37014 | 11.02 | PPBV | # | 43 |
| 24) PENTANE | 2.299 | 42 | 83225 | 10.45 | PPBV | # | 95 |
| 25) IODOMETHANE | 2.357 | 142 | 161394 | 11.32 | PPBV | | 88 |
| 26) 1,1-DICHLOROETHYLENE | 2.386 | 96 | 60513 | 10.76 | PPBV | # | 60 |
| 27) CARBON DISULFIDE | 2.521 | 76 | 188336 | 10.57 | PPBV | # | 90 |
| 28) ETHANOL | 2.007 | 45 | 35762 | 10.38 | PPBV | | 97 |
| 29) BROMOETHENE | 2.074 | 106 | 58344 | 11.58 | PPBV | # | 98 |
| 30) ACRYLONITRILE | 2.274 | 52 | 56459 | 11.22 | PPBV | | 97 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 56190 | 9.96 | PPBV | # | 49 |
| 32) 3-CHLOROPROPENE | 2.463 | 76 | 29616 | 10.79 | PPBV | # | 1 |
| 33) FREON 113 | 2.521 | 151 | 100942 | 10.12 | PPBV | | 86 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 65605 | 10.45 | PPBV | # | 79 |
| 35) TERTIARY BUTYL ALCOHOL | 2.396 | 59 | 101040 | 8.28 | PPBV | # | 70 |
| 36) METHYL TERTIARY BUTYL ... | 2.888 | 73 | 115716 | 7.40 | PPBV | # | 92 |
| 37) TETRAHYDROFURAN | 3.656 | 72 | 32296 | 11.12 | PPBV | # | 43 |
| 38) HEXANE | 3.393 | 57 | 125492 | 10.30 | PPBV | # | 76 |
| 39) VINYL ACETATE | 2.930 | 86 | 16185 | 10.75 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.852 | 63 | 123391 | 10.31 | PPBV | | 98 |
| 41) METHYL ETHYL KETONE | 3.039 | 72 | 33334 | 10.92 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.257 | 96 | 67577 | 10.25 | PPBV | # | 79 |
| 43) DIISOPROPYL ETHER | 3.402 | 59 | 31869 | 9.10 | PPBV | # | 43 |
| 44) ETHYL ACETATE | 3.409 | 61 | 26798 | 11.14 | PPBV | # | 51 |
| 45) METHYL ACRYLATE | 3.393 | 55 | 164655 | 10.93 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.421 | 83 | 135830 | 10.04 | PPBV | # | 94 |
| 47) 2,4-DIMETHYLPENTANE | 3.955 | 57 | 147246 | 10.70 | PPBV | # | 93 |
| 48) 1,1,1-TRICHLOROETHANE | 4.045 | 97 | 119181 | 8.97 | PPBV | # | 88 |
| 49) CARBON TETRACHLORIDE | 4.502 | 117 | 134543 | 9.44 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.868 | 62 | 99834 | 9.70 | PPBV | # | 95 |
| 51) BENZENE | 4.380 | 78 | 200682 | 9.92 | PPBV | | 79 |
| 53) CYCLOHEXANE | 4.601 | 84 | 86440 | 10.39 | PPBV | # | 71 |
| 54) 2,3-DIMETHYLPENTANE | 4.875 | 71 | 46756 | 10.32 | PPBV | # | 55 |
| 55) TRICHLOROETHENE | 5.351 | 95 | 82231 | 9.18 | PPBV | | 98 |
| 56) 1,2-DICHLOROPROPANE | 5.103 | 63 | 84350 | 10.26 | PPBV | | 99 |
| 57) DIBROMOMETHANE | 5.061 | 174 | 78129 | 9.25 | PPBV | | 88 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26863.D
Acq On : 4 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 15:58:48 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.238 | 55 | 174545 | 10.01 | PPBV | # | 97 |
| 59) BROMODICHLOROMETHANE | 5.299 | 83 | 135088 | 8.96 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.444 | 57 | 345321 | 9.15 | PPBV | # | 98 |
| 61) 1,4-DIOXANE | 5.376 | 88 | 44961 | 11.43 | PPBV | # | 77 |
| 62) HEPTANE | 5.782 | 43 | 132685 | 8.73 | PPBV | # | 77 |
| 63) METHYL METHACRYLATE | 5.688 | 69 | 71715 | 9.84 | PPBV | # | 58 |
| 64) METHYL ISOBUTYL KETONE | 6.473 | 58 | 68250 | 11.08 | PPBV | # | 67 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.351 | 75 | 96628 | 8.87 | PPBV | # | 76 |
| 66) TOLUENE | 7.614 | 91 | 221486 | 8.78 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.685 | 76 | 115400 | 9.49 | PPBV | # | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.071 | 75 | 85757 | 8.93 | PPBV | # | 78 |
| 69) 1,1,2-TRICHLOROETHANE | 7.241 | 83 | 68050 | 9.45 | PPBV | | 98 |
| 70) 2-HEXANONE | 8.222 | 58 | 91152 | 12.70 | PPBV | # | 69 |
| 71) ETHYL METHACRYLATE | 8.357 | 69 | 118973 | 11.08 | PPBV | # | 73 |
| 72) TETRACHLOROETHENE | 9.418 | 164 | 84641 | 9.71 | PPBV | | 93 |
| 73) DIBROMOCHLOROMETHANE | 8.187 | 129 | 142534 | 9.16 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.540 | 107 | 123855 | 9.39 | PPBV | | 100 |
| 75) OCTANE | 9.559 | 43 | 182730 | 9.09 | PPBV | # | 77 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.678 | 131 | 97233 | 9.62 | PPBV | | 93 |
| 78) CHLOROBENZENE | 10.666 | 112 | 184918 | 10.16 | PPBV | | 100 |
| 79) ETHYLBENZENE | 11.569 | 91 | 295862 | 9.12 | PPBV | | 99 |
| 80) M,P-XYLENE | 12.010 | 91 | 458994 | 18.95 | PPBV | # | 66 |
| 81) O-XYLENE | 12.964 | 91 | 232546 | 9.59 | PPBV | | 99 |
| 82) STYRENE | 12.746 | 104 | 178124 | 10.99 | PPBV | | 97 |
| 83) NONANE | 14.087 | 43 | 195685 | 9.38 | PPBV | # | 77 |
| 84) BROMOFORM | 11.829 | 173 | 129165 | 9.77 | PPBV | # | 98 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.987 | 83 | 183225 | 10.64 | PPBV | | 98 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.270 | 75 | 137385 | 10.19 | PPBV | | 98 |
| 88) ISOPROPYLBENZENE | 14.505 | 105 | 341685 | 10.22 | PPBV | # | 94 |
| 89) BROMOBENZENE | 14.373 | 77 | 168862 | 10.47 | PPBV | | 95 |
| 90) 2-CHLOROTOLUENE | 15.527 | 91 | 239551 | 10.97 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.865 | 91 | 414101 | 11.24 | PPBV | # | 96 |
| 92) 4-ETHYLTOLUENE | 16.202 | 105 | 346714 | 11.63 | PPBV | | 100 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.350 | 105 | 287636 | 11.41 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.546 | 118 | 154345 | 12.22 | PPBV | | 98 |
| 95) TERT-BUTYLBENZENE | 16.797 | 119 | 323671 | 11.45 | PPBV | | 98 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.807 | 105 | 301961 | 11.60 | PPBV | | 96 |
| 97) BENZYL CHLORIDE | 16.890 | 91 | 175655 | 11.13 | PPBV | | 98 |
| 98) M-DICHLOROBENZENE | 16.865 | 146 | 201520 | 11.13 | PPBV | | 99 |
| 99) P-DICHLOROBENZENE | 16.945 | 146 | 205959 | 11.40 | PPBV | | 99 |
| 100) O-DICHLOROBENZENE | 17.238 | 146 | 198777 | 11.22 | PPBV | | 99 |
| 101) SEC-BUTYLBENZENE | 17.074 | 105 | 444761 | 11.54 | PPBV | | 99 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.183 | 105 | 292962 | 11.49 | PPBV | | 99 |
| 103) P-ISOPROPYLTOLUENE | 17.247 | 119 | 381681 | 11.55 | PPBV | | 97 |
| 104) N-BUTYLBENZENE | 17.591 | 91 | 367185 | 12.50 | PPBV | | 99 |
| 105) HEXACHLOROETHANE | 17.771 | 117 | 126994 | 10.58 | PPBV | # | 90 |
| 106) HEXACHLOROBUTADIENE | 18.797 | 225 | 148225 | 11.30 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.495 | 180 | 177985 | 12.10 | PPBV | | 99 |
| 108) NAPHTHALENE | 18.543 | 128 | 483036 | 13.32 | PPBV | | 100 |

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

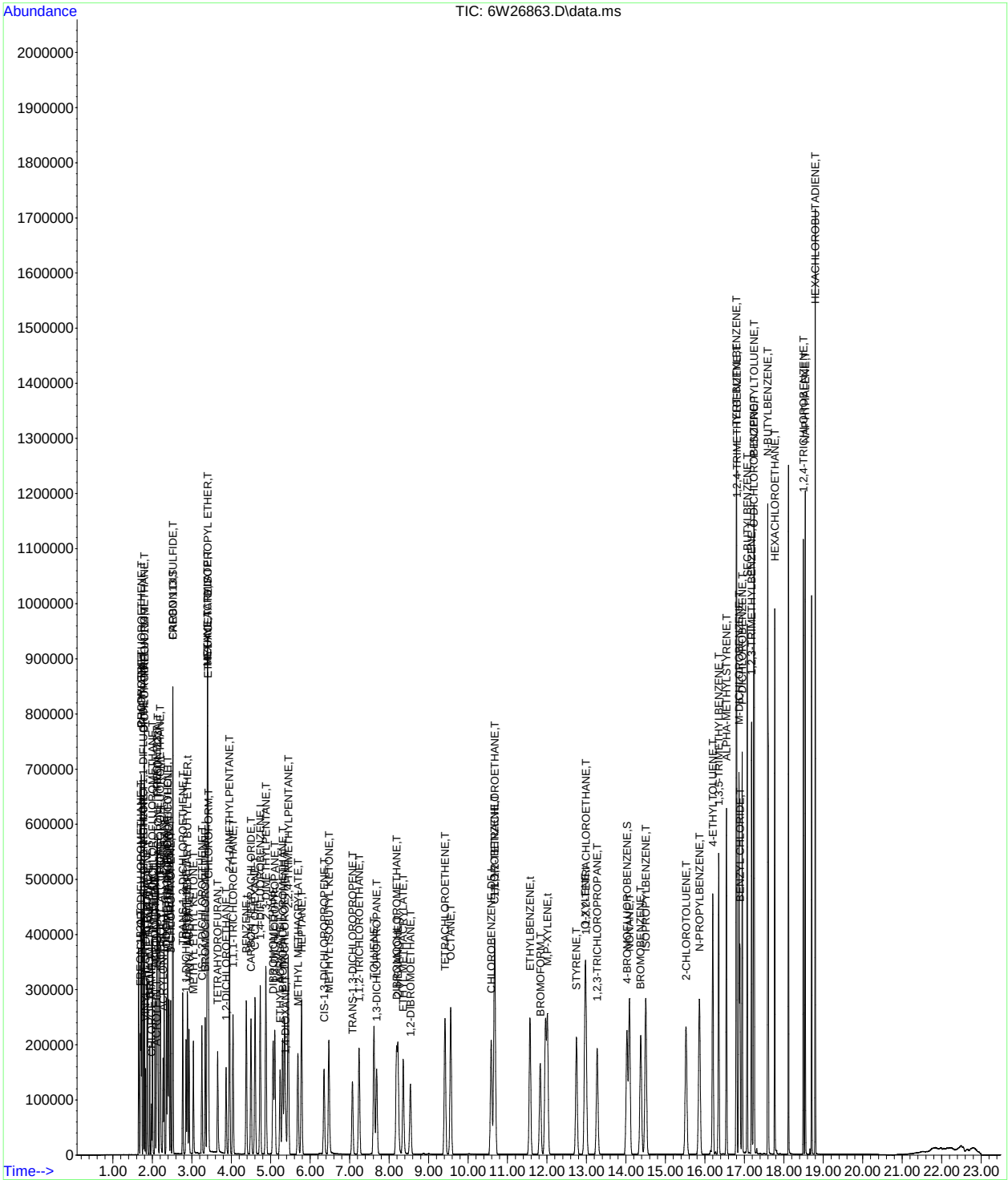
7.7.34

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26863.D
Acq On : 4 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 15:58:48 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



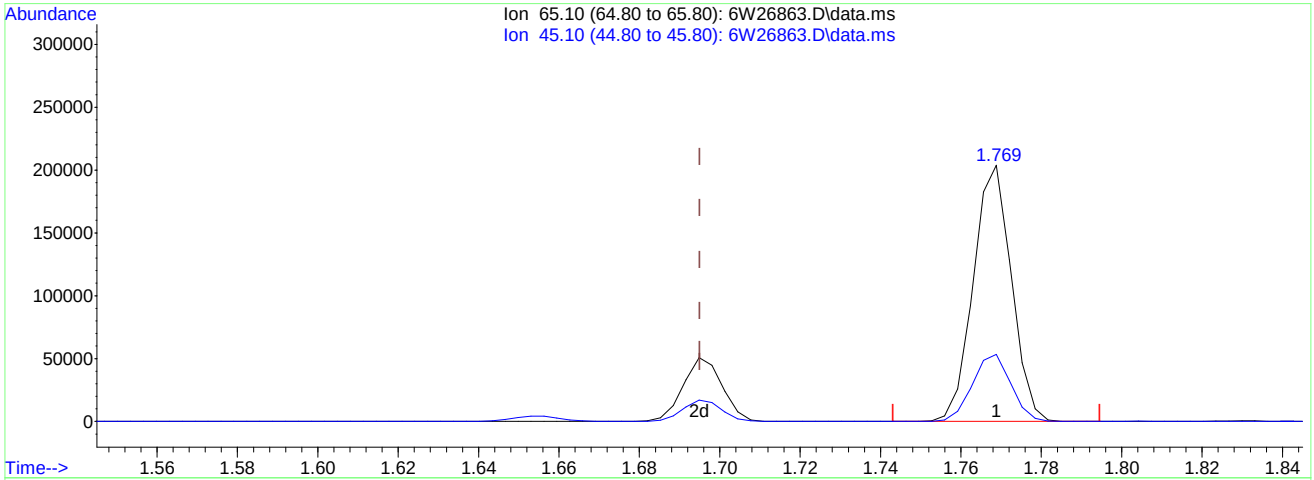
| | | | |
|---|---|---|---|
| **Sample Number:** | V6W1138-CC1125 | **Method:** | TO-15 |
| **Lab FileID:** | 6W26863.D | **Analyst approved:** | 11/08/22 16:03 William Cruser |
| **Injection Time:** | 11/04/22 09:36 | **Supervisor approved:** | 11/08/22 16:17 Kanya Veerawat |

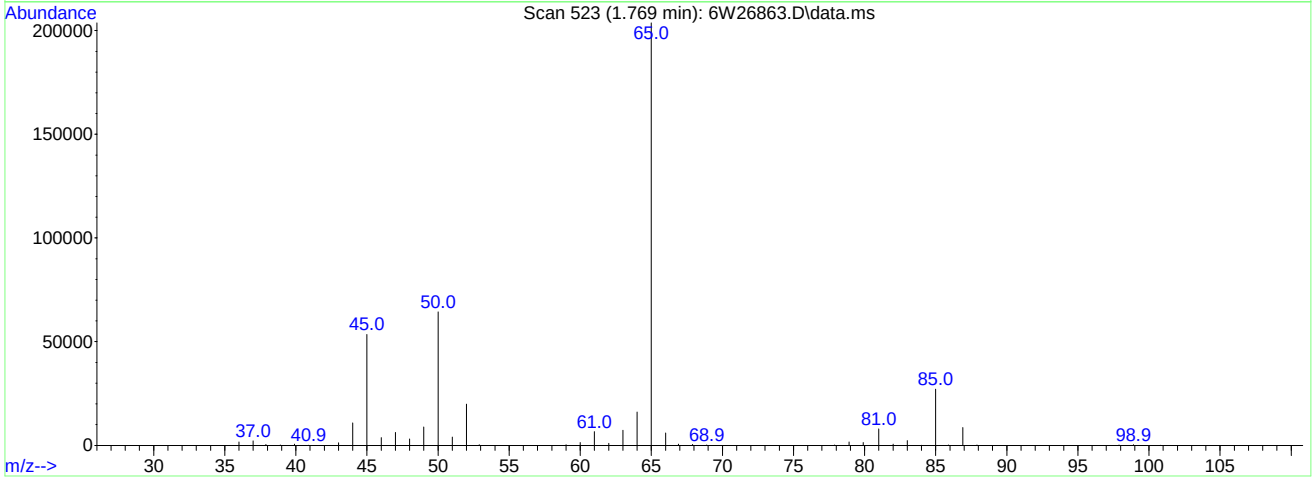
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.69 | Missed peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26863.D
Acq On : 4 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 05 10:25:30 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26863.D\data.ms

(3) FREON 152A (T)

1.769min (+0.074) 34.43PPBV

response 134261

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 22.90 | 26.54 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

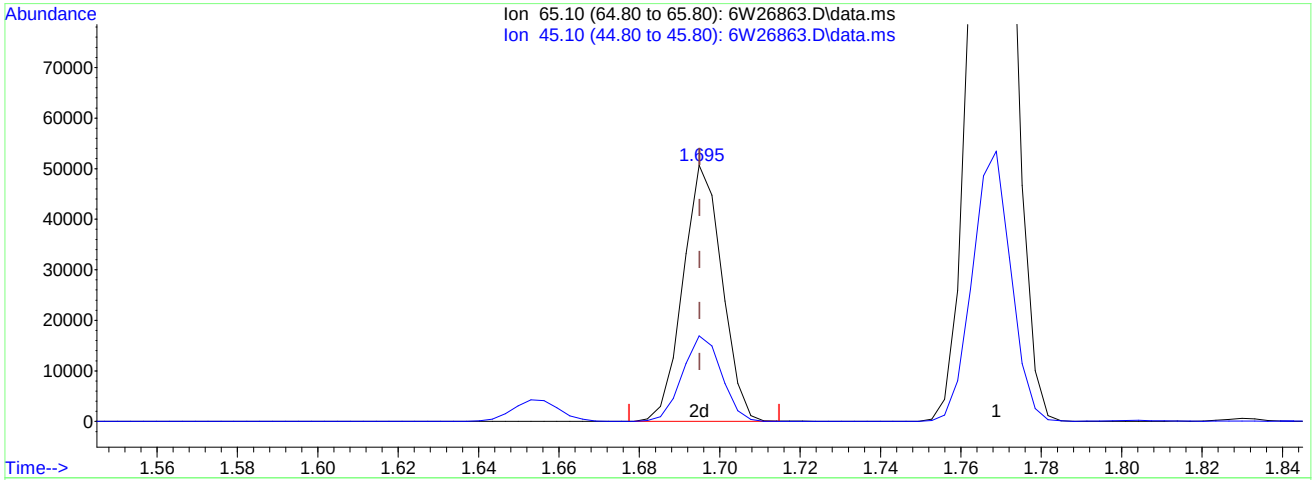


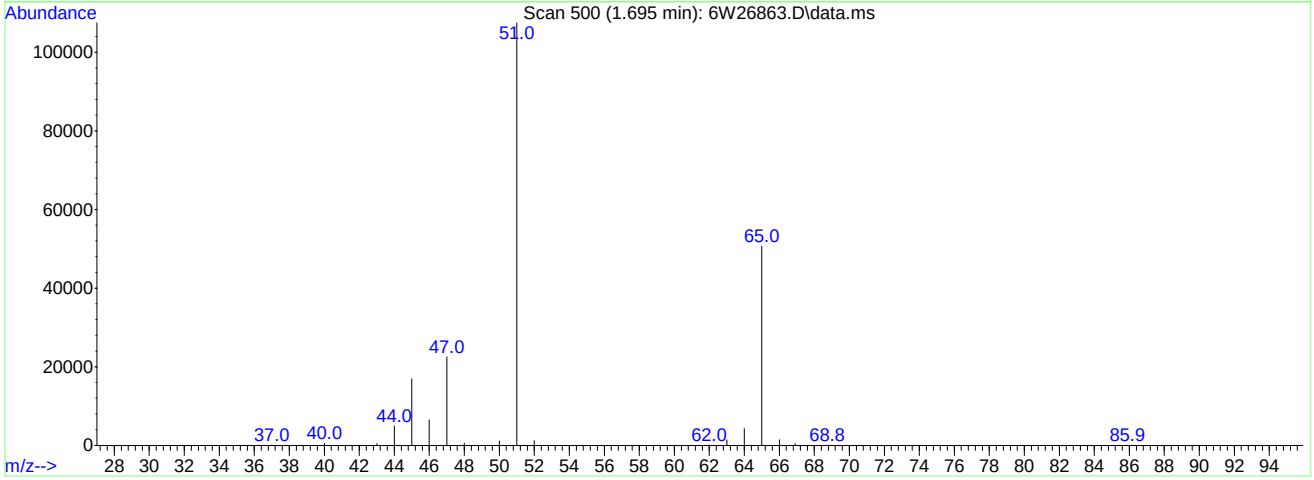
6W26863.D edits: FREON 152A

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26863.D
Acq On : 4 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 05 10:25:30 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration




TIC: 6W26863.D\data.ms

(3) FREON 152A (T)

1.695min (-0.000) 8.78PPBV m

response 34226

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 22.90 | 104.12# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# TO-15

Batch ID: V2W2709

Date: 8/19/22

Analyst Signature:

Columns: DB-1 30mx0.25mmx0.5μm

Method: 2WTO15.M

Seq. File: 2W20220819.S

Initial Cal. Method: M2W2709.M

## AS Data

Method: TO15, 7200A.CTD

**Standard Data**

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

**Standard Data**

| Lot # | Description | Conc. |
|---|---|---|
| A51188 | Int/Surr | 100ppbv |
| A59570 | TO15 STD (A1784) | 40ppbv |
| A59580 | TO15 LCS (A965) | 40ppbv |
| A59569 | TO15 STD (A1810) | 2ppbv |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date: 8/22/2022

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 2W61006 | IB | | A962 | 20 | | | | | | |
| 3 | 2W61007 | IB | | A962 | 20 | | | | | | |
| 3 | 2W61008 | IB | | A962 | 20 | | | | | | |
| 1 | 2W61009 | BFB | | A1810 | 20 | | | | | OK | T=10:50 |
| 1 | 2W61010 | IC2709-0.04 | | A1810 | 8 | | | ✓ | ✓ | OK | |
| 1 | 2W61011 | IC2709-0.1 | | A1810 | 20 | | | ✓ | ✓ | OK | |
| 1 | 2W61012 | IC2709-0.2 | | A1810 | 40 | | | ✓ | ✓ | OK | |
| 1 | 2W61013 | IC2709-0.5 | | A1810 | 100 | | | ✓ | ✓ | OK | |
| 2 | 2W61014 | IC2709-0.5 | | A1784 | 5 | | | | | | |
| 2 | 2W61015 | IC2709-5 | | A1784 | 50 | | | ✓ | ✓ | OK | |
| 2 | 2W61016 | IC2709-10 | | A1784 | 100 | | | ✓ | ✓ | OK | |
| 2 | 2W61017 | IC2709-20 | | A1784 | 200 | | | ✓ | ✓ | OK | |
| 2 | 2W61018 | IC2709-40 | | A1784 | 400 | | | ✓ | ✓ | OK | |
| 2 | 2W61019 | IC2709-50 | | A1784 | 500 | | | ✓ | ✓ | OK | |
| 3 | 2W61020 | IB | | A962 | 20 | | | | | | |
| 3 | 2W61021 | IB | | A962 | 20 | | | | | | |
| 4 | 2W61022 | ICV2709-10 | | A965 | 100 | | | ✓ | ✓ | OK | |

8/22/2022

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

# TO-15

Batch ID: V2W2734

Date: 9/27/22

Analyst Signature:

Columns: DB-1 30mx0.25mmx0.5µm
Method: 2WTO15.M
Seq. File: 2W20220927.S
Initial Cal. Method: M2W2709.M

## AS Data

Method: TO15.7200A.CTD

### Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

### Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| AS9188 | Int/Surr. | 10ppbv |
| AS2596 | TO15 STD (A771) | 40ppbv |
| | | |
| AS9577 | TNT STD (A1804) | 2ppbv |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteri of SGS SOP EQA044.

Supervisor Signature: Date: 9/27/2022.

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2W61610 | BFB | | open pre-Inv | 400 | | | | | OK | |
| 2 | 2W61611 | CC2709-10 | | A771 | 100 | | | ✓ | ✓ | OK | |
| 2 | 2W61612 | BS | | A771 | 100 | | | ✓ | ✓ | OK | |
| 2 | 2W61613 | BSD | | A771 | 100 | | | ✓ | ✓ | OK | |
| 3 | 2W61614 | IB | | A962 | 100 | | | ✓ | ✓ | OK | |
| 3 | 2W61615 | MB | | A962 | 400 | | | | | — | |
| 4 | 2W61616 | JD52279-2 | STD MS62390 | A1582 | 400 | 1 | | ✓ | ✓ | OK | |
| 5 | 2W61617 | JD52279-4 | ✓ | A1324 | 400 | 1 | | ✓ | ✓ | OK | |
| 6 | 2W61618 | JD52279-6 | ✓ | M011 | 400 | 1 | | ✓ | ✓ | OK | |
| 6 | 2W61619 | JD52279-6DUP | ✓ | M011 | 400 | 1 | | ✓ | ✓ | OK | |
| 7 | 2W61620 | JD52481-1 | STD MS62489 | A1240 | 20 | 1 | | ✓ | ✓ | OK/DL | |
| 8 | 2W61621 | JD52253-1 | STD MS62371 | A1145, A1249 | 100 | 148 | | ✓ | ✓ | OK/DL | |
| 9 | 2W61622 | SCC CP11870 | | A1094 | 400 | | | ✓ | ✓ | OK | |
| 10 | 2W61623 | SCC CP11874 | | A832 | 400 | | | ✓ | ✓ | OK | |
| 11 | 2W61624 | SCC CP11857 | | A1858 | 400 | | | | | NG | Acetone ↑ Reclean batch |
| 12 | 2W61625 | SCC CP11872 | | M441 | 100 | | | ✓ | ✓ | OK | |
| 13 | 2W61626 | SCC CP11872 | | A385 | 100 | | | ✓ | ✓ | OK | |
| 14 | 2W61627 | SCC CP11872 | | A801 | 100 | | | ✓ | ✓ | OK | |
| 1 | 2W61628 | JD337733-3 | | A1804 | 20 | | | | | | 0.1ppbv |
| 1 | 2W61629 | JD337733-3 | | A1804 | 20 | | | | | | 0.1ppbv |
| 1 | 2W61630 | JD337733-3 | | A1804 | 40 | | | | | | 0.2ppbv |
| 1 | 2W61631 | JD337733-3 | | A1804 | 40 | | | | | | 0.2ppbv |

TH 9/28/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

# TO-15

Batch ID: V6W1077

Date: 8/4/2022

Analyst Signature:

Columns: DB-1 30m x 0.25mm x 0.5µm

Method: 6WTO15.M

Seq. File: 6W20220804.S

Initial Cal. Method: M6W1077.M

## AS Data

Method: 6WTO15A.7209.OTB

**Standard Data**

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

**Standard Data**

| Lot # | Description | Conc. |
|---|---|---|
| AS9188 | Int/Surr | 100ppbv |
| AS9568 | TO15 STD (A1799) | 40ppbv |
| AS9567 | TO15 STD (A1810) | 20ppbv |
| AS9583 | TO15 LCS (A1785) | 40ppbv |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteri of SGS SOP EQA044.

Supervisor Signature: Date: 8/11/2022

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 6W25312 | IB | | A963 | 20 | | | | | — | |
| 3 | 6W25313 | IB | | A963 | 20 | | | | | — | |
| 3 | 6W25314 | IB | | A963 | 20 | | | | | — | |
| 1 | 6W25315 | BFB | | A1810 | 10 | | | | | OK | |
| 1 | 6W25316 | IC1077-0.04 | | A1810 | 8 | | | | | OK | |
| 1 | 6W25317 | IC1077-0.1 | | A1810 | 20 | | | | | OK | |
| 1 | 6W25318 | IC1077-0.2 | | A1810 | 40 | | | | | OK | |
| 1 | 6W25319 | IC1077-0.5 | | A1810 | 100 | | | | | OK | |
| 2 | 6W25320 | IC1077-0.5 | | A1799 | 5 | | | | | Not used | |
| 2 | 6W25321 | IC1077-5 | | A1799 | 50 | | | | | OK | |
| 2 | 6W25322 | ICC1077-10 | | A1799 | 100 | | | | | OK | |
| 2 | 6W25323 | IC1077-20 | | A1799 | 200 | | | | | OK | |
| 2 | 6W25324 | ~~IC~~ IC1077-40 TH 8/5/22 | | A1799 | 400 | | | | | OK | |
| 2 | 6W25325 | IC1077-50 | | A1799 | 500 | | | | | OK | |
| 3 | 6W25326 | IB | | A963 | 20 | | | | | — | |
| 3 | 6W25327 | IB | | A963 | 20 | | | | | — | |
| 4 | 6W25328 | ICV1077-10 | | A1785 | 100 | | | | | OK | |

TH 8/5/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

131

SGS

# TO-15

Batch ID: V6W1083

Date: 8/11/22

Analyst Signature:

Columns: DB-1 30m x 0.25mm x 0.5µ

Method: 6WT015.M

Seq. File: 6W20220811.S

Initial Cal. Method: M6W1077.M

## AS Data

Method: 6WT015A.72004.CTD

**Standard Data**

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

**Standard Data**

| Lot # | Description | Conc. |
|---|---|---|
| AS9188 | Int/surr. | 100 ppbv |
| AS9568 | T015 STD (A1799) | 40 ppbv |
| | | |
| | | |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the crite of SGS SOP EQA044.

Supervisor Signature: Date: 8/16/2022

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 6W25438 | BFB | | open flow | 400 | | | | | OK | 7:24AM |
| 2 | 6W25439 | CC1077-20 | | A1799 | 100 | | | ✓ | ✓ | OK | |
| 2 | 6W25440 | BS | | A1799 | 100 | | | ✓ | ✓ | OK | |
| 2 | 6W25441 | BSD | | A1799 | 100 | | | ✓ | ✓ | OK | |
| 3 | 6W25442 | IB | | A963 | 100 | | | | | — | |
| 3 | 6W25443 | IB | | A963 | 100 | | | | | — | |
| 3 | 6W25444 | MB | | A963 | 400 | | | ✓ | ✓ | OK | |
| 4 | 6W25445 | JD497029-1 | STD m/z 61 233 | A2016 | 100 | 1 | | ✓ | ✓ | OK | |
| 4 | 6W25446 | JD497029-1DUP | ✓ | A2016 | 100 | 1 | | ✓ | ✓ | OK | |
| 5 | 6W25447 | JD433029-1 | SC m/z 60 869 | A1800 | 400 | 1 | | ✓ | ✓ | OK | |
| 5 | 6W25448 | JD433029-1 | ✓ | A1800 | 20 | 1 | | | | Not used | Not needed |
| 6 | 6W25449 | IB | | A1097 | 20 | | | | | — | |
| 6 | 6W25450 | SCC CP11827 | | A1097 | 400 | | | | | MV | TCE ↑ re-bkgrnd smpl |
| 7 | 6W25451 | SCC CP11839 | | A1481 | 400 | | | ✓ | ✓ | OK | |
| 8 | 6W25452 | SCC CP11846 | | A406 | 100 | | | ✓ | ✓ | OK | |
| 9 | 6W25453 | SCC CP11846 | | A423 | 100 | | | ✓ | ✓ | OK | |
| 10 | 6W25454 | SCC CP11846 | | A537 | 100 | | | ✓ | ✓ | OK | |
| 11 | 6W25455 | SCC CP11847 | | A255 | 400 | | | ✓ | ✓ | OK | |

JH 8/12/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

# TO-15

Batch ID: V6W1125

Analyst Signature:

Date: 10/19/2022

Columns: DB-1: 3m x 0.25mm x 0.5μm
Method: 6W7015.M
Seq. File: 6W2022 1019.S
Initial Cal. Method: 6W1125.M

## AS Data

Method: 6W7015.T20.A.CD

Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| AS9620 | TO15 LCS (A1805) | 40ppbv |

Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| AS9585 | IS/SS | 100ppbv |
| AS9618 | TO15 LCS (A777) | 40ppbv |
| AS9613 | TO15 SD (A1824) | 1ppbv |
| AS9617 | TO15 SD (A1794) | 40ppbv |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date: 10/20/22

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 6W26446 | BFB | | OPEN | 400 | | | | | OK | |
| 1 | 6W26447 | FB | | A1824 | 16 | | | | | — | |
| 1 | 6W26448 | IC1125-0.04 | | A1824 | 16 | | | ✓ | ✓ | OK | |
| 1 | 6W26449 | IC1125-0.1 | | A1824 | 40 | | | ✓ | ✓ | OK | |
| 1 | 6W26450 | IC1125-0.2 | | A1824 | 80 | | | ✓ | ✓ | OK | |
| 1 | 6W26451 | IC1125-0.5 | | A1824 | 200 | | | ✓ | ✓ | OK | |
| 2 | 6W26452 | IC1125-0.5 | | A1794 | 5 | | | | | not used | |
| 2 | 6W26453 | IC1125-5 | | A1794 | 50 | | | ✓ | ✓ | OK | |
| 2 | 6W26454 | IC1125-10 | | A1794 | 100 | | | ✓ | ✓ | OK | |
| 2 | 6W26455 | IC1125-20 | | A1794 | 200 | | | ✓ | ✓ | OK | |
| 2 | 6W26456 | IC1125-40 | | A1794 | 400 | | | ✓ | ✓ | OK | |
| 2 | 6W26457 | IC1125-50 | | A1794 | 500 | | | ✓ | ✓ | OK | |
| 3 | 6W26458 | IB | | A963 | 20 | | | | | — | |
| 3 | 6W26459 | IB | | A963 | 400 | | | | | — | |
| 4 | 6W26460 | ICV1125-10 | | AS9618 | ~~400~~ 200 | BK 10/21/22 | | | | PM | |
| 3 | 6W26461 | IB | | A963 | 400 | | | | | — | |
| 5 | 6W26462 | ICV1125-10 | | A1805 | 100 | | | ✓ | ✓ | OK | |

10/20/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

# TO-15

Batch ID: V6W1137

Date: 11/3/22

Analyst Signature: [signature]

Columns: DB-1 30mx0.25mmx0.15µm
Method: 6WTO15.M
Seq. File: 6W20221103.S
Initial Cal. Method: M6W1125.M

## AS Data

Method: 6WTO15.72000.CTD

**Standard Data**

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

**Standard Data**

| Lot # | Description | Conc. |
|---|---|---|
| A59585 | Int/Surr | 100ppbv |
| A59624 | TO15 STD (A976) | 40ppbv |
| | | |
| | | |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: [signature] Date: 11/8/22

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-1 | 6W26822 | BFB | | DEW POSITION | 400 | | | | | ok | T= 9:04AM |
| 1-2 | 6W26823 | CC1125-10 | | A976 | 100 | | | ✓ | ✓ | ok | |
| 1-2 | 6W26824 | BS | | A976 | 100 | | | ✓ | ✓ | ok | |
| 1-2 | 6W26825 | BSD | | A976 | 100 | | | ✓ | ✓ | ok | |
| 2-1 | 6W26826 | IB | | A962 | 100 | | | | | — | |
| 2-1 | 6W26827 | MB | | A962 | 400 | | | | | RR | NEW CAN ↑MeCl, ACC, ETOH |
| 2-1 | 6W26828 | MB | | A958 | 400 | | | | | RR | ↑MeCl |
| 2-2 | 6W26829 | MB | | A958 | 400 | | | | | RR | ↑MeCl |
| 2-1 | 6W26830 | MB | | A962 | 400 | | + | ✓ | ✓ | ok | |
| 2-2 | 6W26831 | JD54092-8 | SL1 MS63591 | A1126 | 50 | 1 | | ✓ | ✓ | ok | |
| 2-3 | 6W26832 | JD54092-9 | ✓ | A729 | 100 | 1 | | ✓ | ✓ | ok | |
| 2-4 | 6W26833 | JD53652-1 | NAP, STD+ MS63088 | A1125 | 100 | 1 | + | ✓ | ✓ | ok | |
| 2-4 | 6W26834 | JD53652-1DUP | ✓ | A1125 | 100 | 1 | + | ✓ | ✓ | ok | |
| 2-5 | 6W26835 | JD53652-2 | ✓ | A566 | 100 | 1 | + | ✓ | ✓ | ok | |
| 2-6 | 6W26836 | JD53651-2 | STD+ MS63088 | A2067 | 100 | 1 | + | ✓ | ✓ | ok | |
| 2-7 | 6W26837 | JD53651-4 | ✓ | A1911 | 20 | 1 | + | ✓ | ✓ | ok/DL | |
| 2-8 | 6W26838 | JD53651-5 | ✓ | A1957 | 50 | 1 | + | ✓ | ✓ | ok | |
| 2-9 | 6W26839 | JD53715-3 | STD MS63122 | A807 | 100 | 1 | | ✓ | ✓ | ok | |
| 2-10 | 6W26840 | JD54036-1 | PA-VGTMB MS63293 | A794 | 100 | 1 | | ✓ | ✓ | ok | |
| 2-11 | 6W26841 | JD54338-1 | NYSVLL MS63437 | A502 | 100 | 1 | | ✓ | ✓ | ok/DL | ETHYL ALETATE + RR 10mL |
| 2-12 | 6W26842 | JD54338-2 | ✓ | A409 | 148 | 1.48 | | ✓ | ✓ | ok | |
| 2-13 | 6W26843 | JD54337-4 | NYSVLL WD MS63437 | A1985 | 100 | 1 | + | ✓ | ✓ | ok | STD +, NAP |
| 2-14 | 6W26844 | JD54337-5 | ✓ | A1940 | 100 | 1 | + | ✓ | ✓ | ok | |
| 2-15 | 6W26845 | JD54342-1 | STD MS63437 | A1401 | 50 | 1 | | — | — | RR | TOO DILUTE RR=4x |
| 2-16 | 6W26846 | JD54218-1 | MS63395 | M038 | 400 | 1 | | ✓ | ✓ | ok | |
| 2-2 | 6W26847 | JD54218-2 | ✓ | A326 | 400 | 1 | | ✓ | ✓ | ok | |
| 2-3 | 6W26848 | JD54423-11 | STD+ NAP MS63483 | A790 | 100 | 1 | + | ✓ | ✓ | ok | |
| 2-4 | 6W26849 | JD54423-12 | ✓ | A529 | 100 | 1 | + | ✓ | ✓ | ok | |
| 2-5 | 6W26850 | JD54423-14 | ✓ | A420 | 50 | 1 | + | — | — | RR | TOO DILUTE RR=4x |
| 2-6 | 6W26851 | JD54423-15 | ✓ | A571 | 50 | 1 | + | — | — | RR | TOO DILUTE RR=4x |

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

DAYT-AIR-0006-06-FORM-TO15 Instrument Log

77

1/9/18

7.8.6

7

SGS

# TO-15

Batch ID: V6W1137 (CONT.)

Date: 11/3/2022

Analyst Signature:

Columns: DB-1: 30m x 0.25mm x 0.5μm
Method: 6WTO15.M
Seq. File: 6W20221103.S
Initial Cal. Method: MCW1125.M

## AS Data

Method: 6WTO15:7200A.CTD

Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| AS9585 | 15155 | 100 ppbv |
| AS9624 | TO-15 STD (A976) | 40 ppbv |
| | | |
| | | |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date: 11/8/22

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-7 | 6W26852 | scc, CP11889 | | A583 | 100 | | | ✓ | ✓ | OK | |
| 2-8 | 6W26853 | scc, CP11889 | | A432 | 100 | | | ✓ | ✓ | OK | |
| 2-9 | 6W26854 | scc, CP11922 | | M180 | 100 | | | ✓ | ✓ | OK | |
| 2-10 | 6W26855 | scc, CP11929 | | A718 | 100 | | | ✓ | ✓ | OK | |
| 2-11 | 6W26856 | scc, CP11919 | | A664 | 400 | | | ✓ | ✓ | OK | |
| 2-12 | 6W26857 | scc, CP11914 | | A1186 | 400 | | | – | – | RECLEAN | ↑ETOH = 2.44 ppbv |
| 2-13 | 6W26858 | scc, CP11916 | | A1180 | 400 | | | – | – | RECLEAN | ↑ACETONE = 0.35 ppbv |
| 2-14 | 6W26859 | scc, CP11920 | | A067 | 400 | | | ✓ | ✓ | OK | |
| 2-15 | 6W26860 | scc, CP11923 | | A1268 | 400 | | | ✓ | ✓ | OK | |
| 2-16 | 6W26861 | scc, CP11924 | | A1807 | 400 | | | – | – | RECLEAN | ↑$CS_2$ = 0.21 ppbv |

MW 11/4/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

# TO-15

Batch ID: V6W1138

Date: 11/4/22

Analyst Signature: [signature]

Columns: DB-130m x 0.25mm x 0.5µm
Method: 6wT015.m
Seq. File: 6w[illegible]1104-5
Initial Cal. Method: m6w1125.m

## AS Data

Method: 6wT015.720A.CTD

**Standard Data**

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

**Standard Data**

| Lot # | Description | Conc. |
|---|---|---|
| AS9585 | Int/Surr | 100ppbv |
| AS9624 | T015 STD (A976) | 40ppbv |
| | | |
| | | |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: [signature] Date: 11/8/22

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-1 | 6w26862 | BFB | | OPEN POSITION | 400 | | | ✓ | ✓ | OK | T=9:04 AM |
| 1-2 | 6w26863 | CC1125-10 | | A976 | 100 | | | ✓ | ✓ | OK | NAP↑ |
| 1-2 | 6w26864 | BS | | A976 | 100 | | | ✓ | ✓ | OK | NAP↑ |
| 1-2 | 6w26865 | BSD | | A976 | 100 | | | ✓ | ✓ | OK | NAP↑ |
| 2-1 | 6w26866 | IB | | A962 | 100 | | | | | | |
| 2-1 | 6w26867 | MB | | A962 | 400 | | + | ✓ | ✓ | OK | |
| 2-2 | 6w26868 | JD54338-1 | NYSVLL MS63437 | A502 | 10 | 1 | | ✓ | ✓ | OK | |
| 2-3 | 6w26869 | JD54342-1 | STD MS63437 | A1401 | ~~100~~ 293 wc | 2.93 | | ✓ | ✓ | OK | |
| 2-4 | 6w26870 | JD54423-14 | STD+, NAP MS63483 | A420 | 100 | 1 | + | ✓ | ✓ | OK | |
| 2-5 | 6w26871 | JD54423-15 | ✓ | A571 | 100 | 1 | + | ✓ | ✓ | OK | |
| 2-5 | 6w26872 | JD54423-15DUP | ✓ | A571 | 100 | 1 | + | ✓ | ✓ | OK | |
| 2-1 | 6w26873 | IB | | A962 | 20 | | | | | — | |
| 2-6 | 6w26874 | JD54897-1 | SL MS63704 | TBAG | 20 | 1 | | ✓ | ✓ | OK/DL | |
| 2-1 | 6w26875 | IB | | A962 | 20 | | | | | — | |
| 2-6 | 6w26876 | JD54897-1 | ✓ | TBAG | 5 | 1 | | ✓ | ✓ | OK/DL | |
| 2-1 | 6w26877 | IB | | A962 | 20 | | | | | — | |
| 2-7 | 6w26878 | JD54897-2 | ✓ | TBAG, TBAG | 100 | 500 | | ✓ | ✓ | OK | |
| 2-1 | 6w26879 | IB | | A962 | 20 | | | | | — | |
| 2-8 | 6w26880 | JD54897-3 | ✓ | TBAG, TBAG | 80 | 1000 | | ✓ | ✓ | OK | |
| 2-1 | 6w26881 | IB | | A962 | 20 | | | | | — | |
| 2-9 | 6w26882 | JD53706-1 | STD MS63127 | A1928, A527 | 400 | 158 | | ✓ | ✓ | OK/DL | OVER CAL RR=50mL |
| 2-10 | 6w26883 | JD53706-2 | ✓ | A1932, A679 | 100 | 268 | | — | — | RR | TOO DILUTE |
| 2-11 | 6w26884 | JD53706-3 | ✓ | A1388, A410 | 50 | 229 | | ✓ | ✓ | OK | |
| 2-12 | 6w26885 | JD54423-13 | STD+, NAP MS63483 | M450, A1102 | 20 | 128 | + | — | — | RR | TOO DILUTE |
| 2-13 | 6w26886 | JD54898-1 | BTXM↑ MS63705 | TBAG | 5 | 1 | | | | | ~~TOO DILUTE~~ |
| 2-14 | 6w26887 | JD54899-1 | ✓ | TBAG | 20 | 1 | | | | | |
| 2-15 | 6w26888 | JD54130-3 | STD+ MS63316 | A1863 | 400 | 1 | + | | | | |
| 2-16 | 6w26889 | JD54130-4 | ✓ | A1531 | 100 | 1 | + | | | | |
| 2-2 | 6w26890 | JD54130-5 | ✓ | A1953 | 100 | 1 | + | | | | |
| 2-3 | 6w26891 | JD54132-1 | ✓ | A1908 | 100 | 1 | + | | | | |

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

7.8.7

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SGS

# TO-15

Batch ID: V6W1138

Analyst Signature: [signature]

Date: 11/4/22

Columns: DB-1 30m x 0.25mm x 0.5μm
Method: 6WTO15.m
Seq. File: 6W20221104.S
Initial Cal. Method: M6W125M

## AS Data

Method: 6WTO15.7200A CTD

**Standard Data**

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

**Standard Data**

| Lot # | Description | Conc. |
|---|---|---|
| AS9585 | Int/Surr | 100ppbv |
| AS9624 | TO15 STD (A976) | 40ppbv |
| | | |
| | | |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: [signature] Date: 11/8/22

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-4 | 6W26892 | JD54485-3 | STD MS63516 | A1133 | 100 | 1 | | | | | |
| 2-5 | 6W26893 | JD54485-4 | ✓ | M200 | 100 | 1 | | | | | |
| 2-6 | 6W26894 | JD54487-2 | ✓ | A561 | 100 | 1 | | | | | |
| 2-7 | 6W26895 | SCC, CP11936 | | A1385 | 100 | 1 | | – | – | RECLEAN | ↑$CS_2$ = 0.33 ppbv |
| 2-8 | 6W26896 | SCC, CP11936 | | A1998 | 100 | 1 | | – | – | RECLEAN | ↑$CS_2$ = 0.37 ppbv |
| 2-9 | 6W26897 | SCC, CP11936 | | A544 | 100 | 1 | | – | – | RECLEAN | ↑$CS_2$ = 0.77 ppbv |
| 2-10 | 6W26898 | SCC, CP11930 | | MD14 | 400 | 1 | | – | – | RECLEAN | ↑MEK = 3.05 ppbv |
| 2-11 | 6W26899 | SCC, CP11939 | | M218 | 400 | 1 | | ✓ | ✓ | OK | |
| 2-12 | 6W26900 | SCC, CP11928 | | A003 | 400 | 1 | | ✓ | ✓ | OK | ↓ RERUN, CLOSED VALVE |
| 2-13 | 6W26901 | SCC, CP11932 | | A1022 | 400 | 1 | | – | – | ~~RECLEAN~~ | ~~↑Acetone = 1.41 ppbv~~ |
| 2-14 | 6W26902 | SCC, CP11933 | | A1086 | 400 | 1 | | ✓ | ✓ | OK | T = 7:27 BK 11/6/22 |

[signature] 11/5/2022

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

DAYT-AIR-0006-06-FORM-TO15 Instrument Log 83 1/9/18

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Instrument Run Log V6W1138 page 2 of 2

JD54338

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*
*Automated Report*

Technical Report for

WSP USA Environment & Infrastructure Inc

EPT, Ithaca, NY

31405608.001 02

SGS Job Number: JD57555

Sampling Dates: 12/13/22 - 12/15/22



Report to:

dave.rykaczewski@wsp.com

ATTN: Distribution5

Total number of pages in report: 72

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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# Sample Summary

WSP USA Environment & Infrastructure Inc

**Job No:** JD57555

EPT, Ithaca, NY
Project No: 31405608.001 02

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Matrix Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL | | | | | | | |
| JD57555-1 | 12/13/22 | 09:15 | NW | 12/20/22 | AQ | Ground Water | MW-7B |
| JD57555-2 | 12/13/22 | 09:30 | NW | 12/20/22 | AQ | Ground Water | MW-36B |
| JD57555-3 | 12/13/22 | 09:45 | NW | 12/20/22 | AQ | Ground Water | MW-46-72C |
| JD57555-4 | 12/13/22 | 10:00 | NW | 12/20/22 | AQ | Ground Water | MW-46-43C |
| JD57555-5 | 12/13/22 | 15:20 | NW | 12/20/22 | AQ | Ground Water | MW-8B |
| JD57555-6 | 12/14/22 | 08:00 | NW | 12/20/22 | AQ | Ground Water | MW-5-25 |
| JD57555-7 | 12/14/22 | 08:20 | NW | 12/20/22 | AQ | Ground Water | MW-12C |
| JD57555-8 | 12/14/22 | 08:30 | NW | 12/20/22 | AQ | Ground Water | MW-15C |
| JD57555-9 | 12/14/22 | 08:40 | NW | 12/20/22 | AQ | Ground Water | MW-5-40 |
| JD57555-10 | 12/14/22 | 08:50 | NW | 12/20/22 | AQ | Ground Water | MW-5-100 |
| JD57555-11 | 12/14/22 | 10:00 | NW | 12/20/22 | AQ | Ground Water | MW-1 |
| JD57555-11D | 12/14/22 | 10:00 | NW | 12/20/22 | AQ | Water Dup/MSD | MW-1-MSD |

# Sample Summary
(continued)

WSP USA Environment & Infrastructure Inc

**Job No:** JD57555

EPT, Ithaca, NY
Project No: 31405608.001 02

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JD57555-11S | 12/14/22 | 10:00 | NW | 12/20/22 | AQ | Water Matrix Spike | MW-1-MS |
| JD57555-12 | 12/14/22 | 10:20 | NW | 12/20/22 | AQ | Ground Water | MW-3B |
| JD57555-13 | 12/14/22 | 07:20 | NW | 12/20/22 | AQ | Ground Water | MW-1222A |
| JD57555-14 | 12/14/22 | 10:30 | NW | 12/20/22 | AQ | Ground Water | MW-5B |
| JD57555-15 | 12/14/22 | 10:40 | NW | 12/20/22 | AQ | Ground Water | MW-4B |
| JD57555-16 | 12/14/22 | 11:00 | NW | 12/20/22 | AQ | Ground Water | MW-32B |
| JD57555-17 | 12/14/22 | 14:45 | NW | 12/20/22 | AQ | Ground Water | MW-50-160D |
| JD57555-18 | 12/14/22 | 15:00 | NW | 12/20/22 | AQ | Ground Water | EW-13 |
| JD57555-19 | 12/14/22 | 15:45 | NW | 12/20/22 | AQ | Equipment Blank | EB-121422 |
| JD57555-20 | 12/15/22 | 09:25 | NW | 12/20/22 | AQ | Ground Water | EXB-7 |
| JD57555-20D | 12/15/22 | 09:25 | NW | 12/20/22 | AQ | Water Dup/MSD | EXB-7-MSD |
| JD57555-20S | 12/15/22 | 09:25 | NW | 12/20/22 | AQ | Water Matrix Spike | EXB-7-MS |
| JD57555-21 | 12/15/22 | 09:50 | NW | 12/20/22 | AQ | Ground Water | EXB-10 |

# Sample Summary
(continued)

WSP USA Environment & Infrastructure Inc

**Job No:** JD57555

EPT, Ithaca, NY
Project No: 31405608.001 02

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JD57555-22 | 12/15/22 | 08:00 | NW | 12/20/22 | AQ | Ground Water | MW-121522 |
| JD57555-23 | 12/15/22 | 10:15 | NW | 12/20/22 | AQ | Ground Water | EW-14 |
| JD57555-24 | 12/15/22 | 10:30 | NW | 12/20/22 | AQ | Ground Water | MW-13C |
| JD57555-25 | 12/15/22 | 10:05 | NW | 12/20/22 | AQ | Equipment Blank | EB-121522 |
| JD57555-26 | 12/15/22 | 11:45 | NW | 12/20/22 | AQ | Ground Water | EXB-9 |
| JD57555-27 | 12/15/22 | 11:45 | NW | 12/20/22 | AQ | Trip Blank Water | TRIP BLANK |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | WSP USA Environment & Infrastructure Inc | **Job No** | JD57555 |
| **Site:** | EPT, Ithaca, NY | **Report Date** | 12/30/2022 5:48:19 P |

On 12/20/2022, 26 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD57555 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

## MS Volatiles By Method SW846 8260D

**Matrix:** AQ **Batch ID:** V1A9792

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD57555-3MS, JD57555-3MSD were used as the QC samples indicated.
- JD57555-3MS/MSD Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD57555-4: Dilution required due to high concentration of target compound.
- JD57555-4 for Acetone, Bromomethane, 2-Hexanone, 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD57555-1 for 2-Hexanone: Associated CCV outside of control limits high, sample was ND.
- JD57555-5 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-5 for 2-Hexanone: Associated CCV outside of control limits high, sample was ND.
- JD57555-5 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD57555-2 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-2 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-2 for 2-Hexanone: Associated CCV outside of control limits high, sample was ND.
- JD57555-2 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD57555-1 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-1 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-1 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD57555-5 for Bromomethane: Associated CCV outside of control limits high, sample was ND.

**Matrix:** AQ **Batch ID:** V1A9796

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD57555-9MS, JD57555-9MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD57555-9MS/MSD Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD57555-12: Dilution required due to high concentration of target compound.
- JD57555-13: Dilution required due to high concentration of target compound.
- JD57555-9: Dilution required due to high concentration of target compound.
- JD57555-9 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-12 for Bromomethane: Associated CCV outside of control limits high, sample was ND.

## MS Volatiles By Method SW846 8260D

**Matrix:** AQ **Batch ID:** V1A9796

- JD57555-13 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-6 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-24 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-10 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-25 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-18 for Bromomethane: Associated CCV outside of control limits high, sample was ND.

**Matrix:** AQ **Batch ID:** V1F47

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD57401-1MS, JD57401-3DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD57555-3: Dilution required due to high concentration of target compound.
- JD57555-3 for Bromomethane, Chloroethane, Methylene chloride, Trichlorofluoromethane, 2-Butanone (MEK): Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

**Matrix:** AQ **Batch ID:** V1F48

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD57555-20MS, JD57555-20MSD were used as the QC samples indicated.
- JD57555-20MS/MSD Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD57555-23 for Trichlorofluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-21 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-21 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-21 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-21 for Trichlorofluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-8 for Trichlorofluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-20 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-20 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-20 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-23 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-8 for Acetone: Associated CCV outside of control limits high.
- JD57555-8 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-20 for Trichlorofluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-8 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-15 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-15 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

## MS Volatiles By Method SW846 8260D

**Matrix:** AQ **Batch ID:** V1F48

- JD57555-15 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-23 for Acetone: Associated CCV outside of control limits high.
- JD57555-15 for Trichlorofluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-23 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

**Matrix:** AQ **Batch ID:** V1F52

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD57555-17MS, JD57555-17MSD were used as the QC samples indicated.
- JD57555-17MS/MSD Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD57555-17: Dilution required due to high concentration of target compound.
- JD57555-17 for Acetone, Chloroethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-17 for Bromomethane, Carbon tetrachloride: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

**Matrix:** AQ **Batch ID:** V2F48

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD57555-11MS, JD57555-11MSD were used as the QC samples indicated.
- JD57555-7 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-27 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-27 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-16 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-16 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-16 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-27 for Chloroform: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-19 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-19 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-7 for Chloroform: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-11 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-7 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-22 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-19 for Chloroform: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-19 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-7 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

## MS Volatiles By Method SW846 8260D

**Matrix:** AQ **Batch ID:** V2F48

- JD57555-16 for Chloroform: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-14 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-14 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-11 for Chloroform: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-22 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-22 for Chloroform: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-27 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-14 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-14 for Chloroform: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-22 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-11 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-11 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

**Matrix:** AQ **Batch ID:** V2F52

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD57555-26 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-26 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-26 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57567-15MS for Cyclohexane: Outside control limits due to matrix interference.
- JD57567-15MS, JD57567-15MSD are used as QC samples.
- JD57567-15MS/MSD for Toluene: Outside control limits due to high level in sample relative to spike amount.
- JD57567-15MSD for Cyclohexane: Outside control limits due to matrix interference.
- RPD of JD57567-15MSD for Chloromethane: Outside control limits due to matrix interference.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

# Summary of Hits

**Job Number:** JD57555
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 12/13/22 thru 12/15/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **JD57555-1** | **MW-7B** | | | | | |
| cis-1,2-Dichloroethene | | 1.2 | 1.0 | 0.51 | ug/l | SW846 8260D |
| **JD57555-2** | **MW-36B** | | | | | |
| cis-1,2-Dichloroethene | | 7.5 | 1.0 | 0.51 | ug/l | SW846 8260D |
| Trichloroethene | | 1.8 | 1.0 | 0.53 | ug/l | SW846 8260D |
| **JD57555-3** | **MW-46-72C** | | | | | |
| cis-1,2-Dichloroethene | | 13500 | 250 | 130 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 41.1 | 25 | 13 | ug/l | SW846 8260D |
| Trichloroethene [a] | | 3180 | 25 | 13 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 2360 | 25 | 13 | ug/l | SW846 8260D |
| **JD57555-4** | **MW-46-43C** | | | | | |
| cis-1,2-Dichloroethene [a] | | 12300 | 100 | 51 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 142 | 100 | 54 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 7460 | 100 | 52 | ug/l | SW846 8260D |
| **JD57555-5** | **MW-8B** | | | | | |
| cis-1,2-Dichloroethene | | 0.51 J | 1.0 | 0.51 | ug/l | SW846 8260D |
| **JD57555-6** | **MW-5-25** | | | | | |
| Acetone | | 6.9 J | 10 | 3.1 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 0.70 J | 1.0 | 0.51 | ug/l | SW846 8260D |
| **JD57555-7** | **MW-12C** | | | | | |
| cis-1,2-Dichloroethene | | 3.2 | 1.0 | 0.51 | ug/l | SW846 8260D |
| **JD57555-8** | **MW-15C** | | | | | |
| Acetone [b] | | 6.4 J | 10 | 3.1 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 347 | 10 | 5.1 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene | | 0.91 J | 1.0 | 0.54 | ug/l | SW846 8260D |
| Trichloroethene | | 176 | 10 | 5.3 | ug/l | SW846 8260D |
| Vinyl chloride | | 35.1 | 1.0 | 0.52 | ug/l | SW846 8260D |

# Summary of Hits

**Job Number:** JD57555
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 12/13/22 thru 12/15/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **JD57555-9** | **MW-5-40** | | | | | |
| 1,1-Dichloroethene [a] | | 13.7 | 10 | 5.9 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 7780 | 100 | 51 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 56.2 | 10 | 5.4 | ug/l | SW846 8260D |
| Trichloroethene [a] | | 1720 | 10 | 5.3 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 1060 | 10 | 5.2 | ug/l | SW846 8260D |
| **JD57555-10** | **MW-5-100** | | | | | |
| Chloroethane | | 5.5 | 1.0 | 0.73 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 20.1 | 1.0 | 0.51 | ug/l | SW846 8260D |
| Vinyl chloride | | 21.6 | 1.0 | 0.52 | ug/l | SW846 8260D |
| **JD57555-11** | **MW-1** | | | | | |
| cis-1,2-Dichloroethene | | 0.63 J | 1.0 | 0.51 | ug/l | SW846 8260D |
| **JD57555-12** | **MW-3B** | | | | | |
| 1,1-Dichloroethene [a] | | 8.3 | 5.0 | 3.0 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 4990 | 50 | 25 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 27.1 | 5.0 | 2.7 | ug/l | SW846 8260D |
| Trichloroethene | | 1170 | 50 | 26 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 133 | 5.0 | 2.6 | ug/l | SW846 8260D |
| **JD57555-13** | **MW-1222A** | | | | | |
| 1,1-Dichloroethene [a] | | 8.2 | 5.0 | 3.0 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 4900 | 50 | 25 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 27.3 | 5.0 | 2.7 | ug/l | SW846 8260D |
| Trichloroethene | | 1190 | 50 | 26 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 140 | 5.0 | 2.6 | ug/l | SW846 8260D |
| **JD57555-14** | **MW-5B** | | | | | |
| cis-1,2-Dichloroethene | | 198 | 10 | 5.1 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene | | 2.3 | 1.0 | 0.54 | ug/l | SW846 8260D |
| Tetrachloroethene | | 1.1 | 1.0 | 0.56 | ug/l | SW846 8260D |
| Trichloroethene | | 569 | 10 | 5.3 | ug/l | SW846 8260D |
| **JD57555-15** | **MW-4B** | | | | | |
| cis-1,2-Dichloroethene | | 0.95 J | 1.0 | 0.51 | ug/l | SW846 8260D |
| Vinyl chloride | | 10.5 | 1.0 | 0.52 | ug/l | SW846 8260D |

# Summary of Hits

**Job Number:** JD57555
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 12/13/22 thru 12/15/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **JD57555-16** | **MW-32B** | | | | | |
| cis-1,2-Dichloroethene | | 4.8 | 1.0 | 0.51 | ug/l | SW846 8260D |
| Trichloroethene | | 24.1 | 1.0 | 0.53 | ug/l | SW846 8260D |
| **JD57555-17** | **MW-50-160D** | | | | | |
| cis-1,2-Dichloroethene [a] | | 2910 | 20 | 10 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 1040 | 20 | 10 | ug/l | SW846 8260D |
| **JD57555-18** | **EW-13** | | | | | |
| Acetone | | 11.6 | 10 | 3.1 | ug/l | SW846 8260D |
| Bromodichloromethane | | 3.4 | 1.0 | 0.45 | ug/l | SW846 8260D |
| Chloroform | | 21.6 | 1.0 | 0.50 | ug/l | SW846 8260D |
| Dibromochloromethane | | 0.91 J | 1.0 | 0.56 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 23.3 | 1.0 | 0.51 | ug/l | SW846 8260D |
| Toluene | | 1.7 | 1.0 | 0.49 | ug/l | SW846 8260D |
| Trichloroethene | | 4.0 | 1.0 | 0.53 | ug/l | SW846 8260D |
| Vinyl chloride | | 3.6 | 1.0 | 0.52 | ug/l | SW846 8260D |
| **JD57555-19** | **EB-121422** | | | | | |
| No hits reported in this sample. | | | | | | |
| **JD57555-20** | **EXB-7** | | | | | |
| 1,1-Dichloroethene | | 1.7 | 1.0 | 0.59 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 1550 | 20 | 10 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene | | 13.8 | 1.0 | 0.54 | ug/l | SW846 8260D |
| Trichloroethene | | 60.1 | 1.0 | 0.53 | ug/l | SW846 8260D |
| Vinyl chloride | | 13.4 | 1.0 | 0.52 | ug/l | SW846 8260D |
| **JD57555-21** | **EXB-10** | | | | | |
| Benzene | | 0.91 | 0.50 | 0.43 | ug/l | SW846 8260D |
| Cyclohexane | | 1.8 J | 5.0 | 0.78 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 1.8 | 1.0 | 0.51 | ug/l | SW846 8260D |
| Methylcyclohexane | | 1.4 J | 5.0 | 0.60 | ug/l | SW846 8260D |
| Vinyl chloride | | 0.97 J | 1.0 | 0.52 | ug/l | SW846 8260D |
| **JD57555-22** | **MW-121522** | | | | | |
| Benzene | | 0.93 | 0.50 | 0.43 | ug/l | SW846 8260D |

# Summary of Hits

**Job Number:** JD57555
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 12/13/22 thru 12/15/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| Cyclohexane | | 1.8 J | 5.0 | 0.78 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 1.7 | 1.0 | 0.51 | ug/l | SW846 8260D |
| Methylcyclohexane | | 1.1 J | 5.0 | 0.60 | ug/l | SW846 8260D |
| Vinyl chloride | | 1.1 | 1.0 | 0.52 | ug/l | SW846 8260D |
| **JD57555-23** | **EW-14** | | | | | |
| Acetone [b] | | 3.3 J | 10 | 3.1 | ug/l | SW846 8260D |
| Bromodichloromethane | | 2.1 | 1.0 | 0.45 | ug/l | SW846 8260D |
| Chloroform | | 12.5 | 1.0 | 0.50 | ug/l | SW846 8260D |
| Dibromochloromethane | | 0.68 J | 1.0 | 0.56 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 25.6 | 1.0 | 0.51 | ug/l | SW846 8260D |
| Toluene | | 0.61 J | 1.0 | 0.49 | ug/l | SW846 8260D |
| Trichloroethene | | 13.6 | 1.0 | 0.53 | ug/l | SW846 8260D |
| Vinyl chloride | | 29.8 | 1.0 | 0.52 | ug/l | SW846 8260D |
| **JD57555-24** | **MW-13C** | | | | | |
| Benzene | | 1.3 | 0.50 | 0.43 | ug/l | SW846 8260D |
| Chloroethane | | 1.4 | 1.0 | 0.73 | ug/l | SW846 8260D |
| Chloroform | | 0.52 J | 1.0 | 0.50 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 125 | 1.0 | 0.51 | ug/l | SW846 8260D |
| Trichloroethene | | 184 | 1.0 | 0.53 | ug/l | SW846 8260D |
| Vinyl chloride | | 4.7 | 1.0 | 0.52 | ug/l | SW846 8260D |
| **JD57555-25** | **EB-121522** | | | | | |
| Carbon disulfide | | 0.60 J | 2.0 | 0.46 | ug/l | SW846 8260D |

**JD57555-26** **EXB-9**

No hits reported in this sample.

**JD57555-27** **TRIP BLANK**

No hits reported in this sample.

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high.

## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-7B | | |
| **Lab Sample ID:** | JD57555-1 | **Date Sampled:** | 12/13/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1A229090.D | 1 | 12/21/22 19:16 | NW | n/a | n/a | V1A9792 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [a] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) [a] | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 1.2 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone [a] | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-7B | | |
| **Lab Sample ID:** | JD57555-1 | **Date Sampled:** | 12/13/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 105% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 101% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-36B | | |
| **Lab Sample ID:** | JD57555-2 | **Date Sampled:** | 12/13/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1A229091.D | 1 | 12/21/22 19:40 | NW | n/a | n/a | V1A9792 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [a] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) [a] | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 7.5 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone [a] | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-36B | | |
| **Lab Sample ID:** | JD57555-2 | **Date Sampled:** | 12/13/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 1.8 | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 109% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 113% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** MW-46-72C
**Lab Sample ID:** JD57555-3
**Matrix:** AQ - Ground Water
**Method:** SW846 8260D
**Project:** EPT, Ithaca, NY

**Date Sampled:** 12/13/22
**Date Received:** 12/20/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 1F1313.D | 25 | 12/22/22 13:27 | ED | n/a | n/a | V1F47 |
| Run #2 | 1A229083.D | 250 | 12/21/22 16:29 | NW | n/a | n/a | V1A9792 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 250 | 76 | ug/l | |
| 71-43-2 | Benzene | ND | 13 | 11 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 25 | 11 | ug/l | |
| 75-25-2 | Bromoform | ND | 25 | 16 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 50 | 41 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) [b] | ND | 250 | 68 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 50 | 11 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 25 | 14 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 25 | 14 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 25 | 18 | ug/l | |
| 67-66-3 | Chloroform | ND | 25 | 13 | ug/l | |
| 74-87-3 | Chloromethane | ND | 25 | 19 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 130 | 20 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 50 | 13 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 25 | 14 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 25 | 12 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 25 | 13 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 25 | 14 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 25 | 13 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 50 | 14 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 25 | 14 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 25 | 15 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 25 | 15 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 13500 [c] | 250 | 130 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 41.1 | 25 | 13 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 25 | 13 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 25 | 12 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 25 | 11 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 25 | 15 | ug/l | |
| 76-13-1 | Freon 113 | ND | 130 | 15 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 130 | 51 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 25 | 16 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-46-72C | | |
| **Lab Sample ID:** | JD57555-3 | **Date Sampled:** | 12/13/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 130 | 20 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 130 | 15 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 25 | 13 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 130 | 46 | ug/l | |
| 75-09-2 | Methylene chloride [b] | ND | 50 | 25 | ug/l | |
| 100-42-5 | Styrene | ND | 25 | 12 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 25 | 16 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 25 | 14 | ug/l | |
| 108-88-3 | Toluene | ND | 25 | 12 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 25 | 13 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 25 | 13 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 25 | 13 | ug/l | |
| 79-01-6 | Trichloroethene | 3180 | 25 | 13 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [b] | ND | 50 | 10 | ug/l | |
| 75-01-4 | Vinyl chloride | 2360 | 25 | 13 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 25 | 15 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 86% | 113% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87% | 114% | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | 99% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 99% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-46-43C | | |
| **Lab Sample ID:** | JD57555-4 | **Date Sampled:** | 12/13/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 1A229089.D | 100 | 12/21/22 18:53 | NW | n/a | n/a | V1A9792 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [b] | ND | 1000 | 310 | ug/l | |
| 71-43-2 | Benzene | ND | 50 | 43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 100 | 45 | ug/l | |
| 75-25-2 | Bromoform | ND | 100 | 63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 200 | 160 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) [b] | ND | 1000 | 270 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 200 | 46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 100 | 55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 100 | 56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 100 | 73 | ug/l | |
| 67-66-3 | Chloroform | ND | 100 | 50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 100 | 76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 500 | 78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 200 | 53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 100 | 56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 100 | 48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 100 | 53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 100 | 54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 100 | 51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 200 | 56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 100 | 57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 100 | 60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 100 | 59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 12300 | 100 | 51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 142 | 100 | 54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 100 | 51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 100 | 47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 100 | 43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 100 | 60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 500 | 58 | ug/l | |
| 591-78-6 | 2-Hexanone [b] | ND | 500 | 200 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 100 | 65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-46-43C | | |
| **Lab Sample ID:** | JD57555-4 | **Date Sampled:** | 12/13/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 500 | 80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 500 | 60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 100 | 51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 500 | 190 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 200 | 100 | ug/l | |
| 100-42-5 | Styrene | ND | 100 | 49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 100 | 65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 100 | 56 | ug/l | |
| 108-88-3 | Toluene | ND | 100 | 49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 100 | 50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 100 | 54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 100 | 53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 100 | 53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 200 | 40 | ug/l | |
| 75-01-4 | Vinyl chloride | 7460 | 100 | 52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 100 | 59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 109% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 113% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-8B | | |
| **Lab Sample ID:** | JD57555-5 | **Date Sampled:** | 12/13/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1A229092.D | 1 | 12/21/22 20:04 | NW | n/a | n/a | V1A9792 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [a] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) [a] | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.51 | 1.0 | 0.51 | ug/l | J |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone [a] | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-8B | | |
| **Lab Sample ID:** | JD57555-5 | **Date Sampled:** | 12/13/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 104% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 102% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 103% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-5-25 | | |
| **Lab Sample ID:** | JD57555-6 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1A229204.D | 1 | 12/23/22 18:42 | NW | n/a | n/a | V1A9796 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 6.9 | 10 | 3.1 | ug/l | J |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [a] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.70 | 1.0 | 0.51 | ug/l | J |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-5-25 | | |
| **Lab Sample ID:** | JD57555-6 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-12C | | |
| **Lab Sample ID:** | JD57555-7 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2F1356.D | 1 | 12/23/22 03:47 | ED | n/a | n/a | V2F48 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform [b] | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 3.2 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-12C | | |
| **Lab Sample ID:** | JD57555-7 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 86% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** MW-15C
**Lab Sample ID:** JD57555-8
**Matrix:** AQ - Ground Water
**Method:** SW846 8260D
**Project:** EPT, Ithaca, NY

**Date Sampled:** 12/14/22
**Date Received:** 12/20/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1F1357.D | 1 | 12/23/22 04:07 | ED | n/a | n/a | V1F48 |
| Run #2 | 1A229193.D | 10 | 12/23/22 14:19 | NW | n/a | n/a | V1A9796 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | 6.4 | 10 | 3.1 | ug/l | J |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 347 [c] | 10 | 5.1 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 0.91 | 1.0 | 0.54 | ug/l | J |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-15C | | |
| **Lab Sample ID:** | JD57555-8 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 176 [c] | 10 | 5.3 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [b] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 35.1 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 85% | 109% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87% | 111% | 80-120% |
| 2037-26-5 | Toluene-D8 | 102% | 99% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 104% | 98% | 82-114% |

(a) Associated CCV outside of control limits high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** MW-5-40
**Lab Sample ID:** JD57555-9
**Matrix:** AQ - Ground Water
**Method:** SW846 8260D
**Project:** EPT, Ithaca, NY

**Date Sampled:** 12/14/22
**Date Received:** 12/20/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 1A229207.D | 10 | 12/23/22 19:54 | NW | n/a | n/a | V1A9796 |
| Run #2 | 1F1503.D | 100 | 12/28/22 13:21 | ED | n/a | n/a | V1F52 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 100 | 31 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 4.3 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 10 | 4.5 | ug/l | |
| 75-25-2 | Bromoform | ND | 10 | 6.3 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 20 | 16 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 100 | 27 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 20 | 4.6 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 10 | 5.5 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 10 | 5.6 | ug/l | |
| 75-00-3 | Chloroethane | ND | 10 | 7.3 | ug/l | |
| 67-66-3 | Chloroform | ND | 10 | 5.0 | ug/l | |
| 74-87-3 | Chloromethane | ND | 10 | 7.6 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 50 | 7.8 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 20 | 5.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 10 | 5.6 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 10 | 4.8 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 10 | 5.3 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 10 | 5.4 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 10 | 5.1 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 20 | 5.6 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 10 | 5.7 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 10 | 6.0 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | 13.7 | 10 | 5.9 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 7780 [c] | 100 | 51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 56.2 | 10 | 5.4 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 10 | 5.1 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 10 | 4.7 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 10 | 4.3 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 10 | 6.0 | ug/l | |
| 76-13-1 | Freon 113 | ND | 50 | 5.8 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 50 | 20 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 10 | 6.5 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-5-40 | | |
| **Lab Sample ID:** | JD57555-9 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 50 | 8.0 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 50 | 6.0 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 10 | 5.1 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 50 | 19 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 20 | 10 | ug/l | |
| 100-42-5 | Styrene | ND | 10 | 4.9 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 10 | 6.5 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 10 | 5.6 | ug/l | |
| 108-88-3 | Toluene | ND | 10 | 4.9 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 10 | 5.0 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 10 | 5.4 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 10 | 5.3 | ug/l | |
| 79-01-6 | Trichloroethene | 1720 | 10 | 5.3 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 20 | 4.0 | ug/l | |
| 75-01-4 | Vinyl chloride | 1060 | 10 | 5.2 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 10 | 5.9 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | 87% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109% | 89% | 80-120% |
| 2037-26-5 | Toluene-D8 | 98% | 104% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 98% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high, sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-5-100 | | |
| **Lab Sample ID:** | JD57555-10 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1A229205.D | 1 | 12/23/22 19:06 | NW | n/a | n/a | V1A9796 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [a] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | 5.5 | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 20.1 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-5-100 | | |
| **Lab Sample ID:** | JD57555-10 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 21.6 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 107% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-1 | | |
| **Lab Sample ID:** | JD57555-11 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2F1346.D | 1 | 12/23/22 00:23 | ED | n/a | n/a | V2F48 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform [b] | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.63 | 1.0 | 0.51 | ug/l | J |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-1 | | |
| **Lab Sample ID:** | JD57555-11 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 87% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 98% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-3B | | |
| **Lab Sample ID:** | JD57555-12 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 1A229210.D | 5 | 12/23/22 21:05 | NW | n/a | n/a | V1A9796 |
| Run #2 | 1F1499.D | 50 | 12/28/22 12:03 | ED | n/a | n/a | V1F52 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 50 | 15 | ug/l | |
| 71-43-2 | Benzene | ND | 2.5 | 2.1 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 2.3 | ug/l | |
| 75-25-2 | Bromoform | ND | 5.0 | 3.2 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 10 | 8.2 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 50 | 14 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 10 | 2.3 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 2.8 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 2.8 | ug/l | |
| 75-00-3 | Chloroethane | ND | 5.0 | 3.6 | ug/l | |
| 67-66-3 | Chloroform | ND | 5.0 | 2.5 | ug/l | |
| 74-87-3 | Chloromethane | ND | 5.0 | 3.8 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 25 | 3.9 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 2.6 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 2.8 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | 2.4 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | 2.7 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | 2.7 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | 2.5 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 10 | 2.8 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 2.8 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 3.0 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | 8.3 | 5.0 | 3.0 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 4990 [c] | 50 | 25 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 27.1 | 5.0 | 2.7 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 2.5 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 2.4 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | 2.2 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 3.0 | ug/l | |
| 76-13-1 | Freon 113 | ND | 25 | 2.9 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 25 | 10 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 5.0 | 3.2 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-3B | | |
| **Lab Sample ID:** | JD57555-12 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 25 | 4.0 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 25 | 3.0 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.0 | 2.5 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 25 | 9.3 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 10 | 5.0 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 2.4 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | 3.3 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 5.0 | 2.8 | ug/l | |
| 108-88-3 | Toluene | ND | 5.0 | 2.5 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 2.5 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 2.7 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 2.7 | ug/l | |
| 79-01-6 | Trichloroethene | 1170 [c] | 50 | 26 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 10 | 2.0 | ug/l | |
| 75-01-4 | Vinyl chloride | 133 | 5.0 | 2.6 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 5.0 | 3.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 106% | 89% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109% | 91% | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | 103% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 100% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high, sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-1222A | | |
| **Lab Sample ID:** | JD57555-13 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 1A229211.D | 5 | 12/23/22 21:29 | NW | n/a | n/a | V1A9796 |
| Run #2 | 2F1500.D | 50 | 12/28/22 12:22 | ED | n/a | n/a | V2F52 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 50 | 15 | ug/l | |
| 71-43-2 | Benzene | ND | 2.5 | 2.1 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 2.3 | ug/l | |
| 75-25-2 | Bromoform | ND | 5.0 | 3.2 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 10 | 8.2 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 50 | 14 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 10 | 2.3 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 2.8 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 2.8 | ug/l | |
| 75-00-3 | Chloroethane | ND | 5.0 | 3.6 | ug/l | |
| 67-66-3 | Chloroform | ND | 5.0 | 2.5 | ug/l | |
| 74-87-3 | Chloromethane | ND | 5.0 | 3.8 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 25 | 3.9 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 2.6 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 2.8 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | 2.4 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | 2.7 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | 2.7 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | 2.5 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 10 | 2.8 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 2.8 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 3.0 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | 8.2 | 5.0 | 3.0 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 4900 [c] | 50 | 25 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 27.3 | 5.0 | 2.7 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 2.5 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 2.4 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | 2.2 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 3.0 | ug/l | |
| 76-13-1 | Freon 113 | ND | 25 | 2.9 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 25 | 10 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 5.0 | 3.2 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-1222A | | |
| **Lab Sample ID:** | JD57555-13 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 25 | 4.0 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 25 | 3.0 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.0 | 2.5 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 25 | 9.3 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 10 | 5.0 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 2.4 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | 3.3 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 5.0 | 2.8 | ug/l | |
| 108-88-3 | Toluene | ND | 5.0 | 2.5 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 2.5 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 2.7 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 2.7 | ug/l | |
| 79-01-6 | Trichloroethene | 1190 [c] | 50 | 26 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 10 | 2.0 | ug/l | |
| 75-01-4 | Vinyl chloride | 140 | 5.0 | 2.6 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 5.0 | 3.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | 91% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110% | 96% | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | 101% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 96% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high, sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-5B | | |
| **Lab Sample ID:** | JD57555-14 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2F1367.D | 1 | 12/23/22 07:30 | ED | n/a | n/a | V2F48 |
| Run #2 | 2F1352.D | 10 | 12/23/22 02:26 | ED | n/a | n/a | V2F48 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform [b] | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 198 [c] | 10 | 5.1 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 2.3 | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-5B | | |
| **Lab Sample ID:** | JD57555-14 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | 1.1 | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 569 [c] | 10 | 5.3 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 85% | 86% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 88% | 92% | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | 98% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 98% | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-4B | | |
| **Lab Sample ID:** | JD57555-15 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1F1359.D | 1 | 12/23/22 04:46 | ED | n/a | n/a | V1F48 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.95 | 1.0 | 0.51 | ug/l | J |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-4B | | |
| **Lab Sample ID:** | JD57555-15 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [b] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 10.5 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 85% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 85% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 103% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-32B | | |
| **Lab Sample ID:** | JD57555-16 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2F1360.D | 1 | 12/23/22 05:06 | ED | n/a | n/a | V2F48 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform [b] | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 4.8 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-32B | | |
| **Lab Sample ID:** | JD57555-16 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 24.1 | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 86% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-50-160D | | |
| **Lab Sample ID:** | JD57555-17 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 1F1501.D | 20 | 12/28/22 12:42 | ED | n/a | n/a | V1F52 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [b] | ND | 200 | 61 | ug/l | |
| 71-43-2 | Benzene | ND | 10 | 8.5 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 20 | 9.0 | ug/l | |
| 75-25-2 | Bromoform | ND | 20 | 13 | ug/l | |
| 74-83-9 | Bromomethane [c] | ND | 40 | 33 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 200 | 55 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 40 | 9.1 | ug/l | |
| 56-23-5 | Carbon tetrachloride [c] | ND | 20 | 11 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 20 | 11 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 20 | 15 | ug/l | |
| 67-66-3 | Chloroform | ND | 20 | 10 | ug/l | |
| 74-87-3 | Chloromethane | ND | 20 | 15 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 100 | 16 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 40 | 11 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 20 | 11 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 20 | 9.5 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 20 | 11 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 20 | 11 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 20 | 10 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 40 | 11 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 20 | 11 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 20 | 12 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 20 | 12 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 2910 | 20 | 10 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 20 | 11 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 20 | 10 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 20 | 9.4 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 20 | 8.6 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 20 | 12 | ug/l | |
| 76-13-1 | Freon 113 [c] | ND | 100 | 12 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 100 | 41 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 20 | 13 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-50-160D | | |
| **Lab Sample ID:** | JD57555-17 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 100 | 16 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 100 | 12 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 20 | 10 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 100 | 37 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 40 | 20 | ug/l | |
| 100-42-5 | Styrene | ND | 20 | 9.7 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 20 | 13 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 20 | 11 | ug/l | |
| 108-88-3 | Toluene | ND | 20 | 9.8 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 20 | 10 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 20 | 11 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 20 | 11 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 20 | 11 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 40 | 8.0 | ug/l | |
| 75-01-4 | Vinyl chloride | 1040 | 20 | 10 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 20 | 12 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 90% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 103% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high, sample was ND.
(c) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-13 | | |
| **Lab Sample ID:** | JD57555-18 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1A229206.D | 1 | 12/23/22 19:30 | NW | n/a | n/a | V1A9796 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 11.6 | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | 3.4 | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [a] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | 21.6 | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | 0.91 | 1.0 | 0.56 | ug/l | J |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 23.3 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-13 | | |
| **Lab Sample ID:** | JD57555-18 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | 1.7 | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 4.0 | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 3.6 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 111% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EB-121422 | | |
| **Lab Sample ID:** | JD57555-19 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2F1362.D | 1 | 12/23/22 05:46 | ED | n/a | n/a | V2F48 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform [b] | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EB-121422 | | |
| **Lab Sample ID:** | JD57555-19 | **Date Sampled:** | 12/14/22 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 86% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 98% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EXB-7 | | |
| **Lab Sample ID:** | JD57555-20 | **Date Sampled:** | 12/15/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1F1347.D | 1 | 12/23/22 00:43 | ED | n/a | n/a | V1F48 |
| Run #2 | 1A229196.D | 20 | 12/23/22 15:30 | NW | n/a | n/a | V1A9796 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | 1.7 | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 1550 [c] | 20 | 10 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 13.8 | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EXB-7 | | |
| **Lab Sample ID:** | JD57555-20 | **Date Sampled:** | 12/15/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 60.1 | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [b] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 13.4 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 84% | 110% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 86% | 112% | 80-120% |
| 2037-26-5 | Toluene-D8 | 101% | 98% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 101% | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EXB-10 | | |
| **Lab Sample ID:** | JD57555-21 | **Date Sampled:** | 12/15/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1F1363.D | 1 | 12/23/22 06:05 | ED | n/a | n/a | V1F48 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | 0.91 | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | 1.8 | 5.0 | 0.78 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 1.8 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EXB-10 | | |
| **Lab Sample ID:** | JD57555-21 | **Date Sampled:** | 12/15/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | 1.4 | 5.0 | 0.60 | ug/l | J |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [b] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 0.97 | 1.0 | 0.52 | ug/l | J |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 85% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 86% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-121522 | | |
| **Lab Sample ID:** | JD57555-22 | **Date Sampled:** | 12/15/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2F1364.D | 1 | 12/23/22 06:25 | ED | n/a | n/a | V2F48 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | 0.93 | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform [b] | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | 1.8 | 5.0 | 0.78 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 1.7 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-121522 | | |
| **Lab Sample ID:** | JD57555-22 | **Date Sampled:** | 12/15/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | 1.1 | 5.0 | 0.60 | ug/l | J |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 1.1 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 85% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-14 | | |
| **Lab Sample ID:** | JD57555-23 | **Date Sampled:** | 12/15/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1F1365.D | 1 | 12/23/22 06:45 | ED | n/a | n/a | V1F48 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | 3.3 | 10 | 3.1 | ug/l | J |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | 2.1 | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | 12.5 | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | 0.68 | 1.0 | 0.56 | ug/l | J |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 25.6 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-14 | | |
| **Lab Sample ID:** | JD57555-23 | **Date Sampled:** | 12/15/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | 0.61 | 1.0 | 0.49 | ug/l | J |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 13.6 | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [b] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 29.8 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 84% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 84% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 101% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 82-114% |

(a) Associated CCV outside of control limits high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-13C | | |
| **Lab Sample ID:** | JD57555-24 | **Date Sampled:** | 12/15/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1A229192.D | 1 | 12/23/22 13:55 | NW | n/a | n/a | V1A9796 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | 1.3 | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [a] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | 1.4 | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | 0.52 | 1.0 | 0.50 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 125 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-13C | | |
| **Lab Sample ID:** | JD57555-24 | **Date Sampled:** | 12/15/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 184 | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 4.7 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 107% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EB-121522 | | |
| **Lab Sample ID:** | JD57555-25 | **Date Sampled:** | 12/15/22 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1A229189.D | 1 | 12/23/22 12:43 | NW | n/a | n/a | V1A9796 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [a] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | 0.60 | 2.0 | 0.46 | ug/l | J |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EB-121522 | | |
| **Lab Sample ID:** | JD57555-25 | **Date Sampled:** | 12/15/22 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 112% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 98% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EXB-9 | | |
| **Lab Sample ID:** | JD57555-26 | **Date Sampled:** | 12/15/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2F1510.D | 1 | 12/28/22 15:46 | ED | n/a | n/a | V2F52 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EXB-9 | | |
| **Lab Sample ID:** | JD57555-26 | **Date Sampled:** | 12/15/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 91% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 101% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | JD57555-27 | **Date Sampled:** | 12/15/22 |
| **Matrix:** | AQ - Trip Blank Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2F1354.D | 1 | 12/23/22 03:07 | ED | n/a | n/a | V2F48 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform [b] | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | JD57555-27 | **Date Sampled:** | 12/15/22 |
| **Matrix:** | AQ - Trip Blank Water | **Date Received:** | 12/20/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 86% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

## Misc. Forms

# Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

GW
TB

wsp

Chain of Custody Form

Page 1 of 2

WSP Office Address: 40 Ls Riviere Dr., Ste. 320 Buffalo, NY 14202

Project Name: Former EPT Ithaca
Project Location: Ithaca, NY
Project Number & Task: 31405608.001 02
Sampler(s) Name(s): Nathaniel Winston

WSP Contact Name: Nathaniel Winston
WSP Contact E-mail: Nathaniel.Winston@wsp.com
WSP Contact Phone: 315-420-9973
Sampler(s) Signature(s):

Requested Analyses & Preservatives

No. JD 57555

Laboratory Name & Location: SGS DAYTON, NJ

Laboratory Project Manager: TAMMY MCCLOSKEY

Requested Turn-Around-Time: [X] Standard (7-day) [ ] 24 HR [ ] 48 HR [ ] 72 HR [ ] ___ HR

| Sample Identification | Matrix | Collection Start* Date | Collection Start* Time | Collection Stop* Date | Collection Stop* Time | Number of Containers | SW846 8260D TCL 42 | | | | | | | | | | | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-7B | AQ | | | 12/13/22 | 0915 | 3 | X | | | | 1 | | | | | | | |
| MW-36B | | | | | 0930 | 3 | X | | | | 2 | | | | | | | |
| MW-46-72C | | | | | 0945 | 3 | X | | | | 3 | | | | | | | |
| MW-46-43C | | | | | 1000 | 3 | X | | | | 4 | | | | | | | |
| MW-8B | | | | | 1520 | 3 | X | | | | 5 | | | | | | | |
| MW-5-25 | | | | 12/14/22 | 0800 | 3 | X | | | | 6 | | | | | | | |
| MW-12C | | | | | 0820 | 3 | X | | | | 7 | | | | | | | |
| MW-15C | | | | | 0830 | 3 | X | | | | 8 | | | | | | | |
| MW-5-40 | | | | | 0840 | 3 | X | | | | 9 | | | | | | | |
| MW-5-100 | | | | | 0850 | 3 | X | | | | 10 | | | | | | | |
| MW-1-MS/MSD | | | | | 1000 | 9 | X | | | | 11 | | | | | | | |
| MW-3B | | | | | 1020 | 3 | X | | | | 12 | | | | | | | |
| MW-1222A | | | | | 0720 | 3 | X | | | | 13 | | | | | | | Initial Assessment IC ZA<br>Label Verification |
| MW-5B | | | | | 1030 | 3 | X | | | | 14 | | | | | | | |
| MW-4B | | | | | 1040 | 3 | X | | | | 15 | | | | | | | |
| MW-32B | | | | | 1100 | 3 | X | | | | 16 | | | | | | | |

WSP USA
Emersub 15, LLC, Ithaca, NY

TS-12822-151

Please place on the back of original (white copy of COC)
This will assist us in processing your samples.
Thank You

| Relinquished By (Signature) | Date | Time | Received By (Signature) | Date | Time | Shipment Method | Tracking Number(s) |
|---|---|---|---|---|---|---|---|
| | 12/14/22 | 1530 | Fedex | | | FEDEX | |
| **Relinquished By (Signature)** | **Date** | **Time** | **Received By (Signature)** | **Date** | **Time** | **Number of Packages** | **Custody Seal Number(s)** |
| Fedex | 12/20/22 | 10:00 | | | | 1 | |

*Use stop time/date for composite and/or air samples; use only start time/date for all other samples.

Matrix: AQ = Aqueous, S = Soil, SE = Sediment, A = Air, W = Wipe, B = Bulk, O = Other (detail in comments)

0 QC VOA

3.0

**JD57555: Chain of Custody**
**Page 1 of 3**

wsp

Chain of Custody Form

Page 2 of 2

WSP Office Address: 40 Ls Riviere Dr., Ste. 320 Buffalo, NY 14202

Project Name: Former EPT Ithaca
Project Location: Ithaca, NY
Project Number & Task: 31405608.001 02
Sampler(s) Name(s): Nathaniel Winston

WSP Contact Name: Nathaniel Winston
WSP Contact E-mail: Nathaniel.Winston@wsp.com
WSP Contact Phone: 315-420-9973
Sampler(s) Signature(s):

No. JD57555

Laboratory Name & Location: SGS DAYTON, NJ
Laboratory Project Manager:

Requested Turn-Around-Time: [X] Standard (7-day) [ ] 24 HR [ ] 48 HR [ ] 72 HR [ ] ___ HR

Requested Analyses & Preservatives: SW846 8260D TCL 42

| Sample Identification | Matrix | Collection Start* Date | Collection Start* Time | Collection Stop* Date | Collection Stop* Time | Number of Containers | SW846 8260D TCL 42 | | | | | | | | | | | Sample Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-50-160D | AQ | — | — | 12/14/22 | 1445 | 3 | X | | | 17 | | | | | | | | |
| EW-13 | | | | | 1500 | 3 | X | | | 18 | | | | | | | | |
| EB-121422 | | | | | 1545 | 3 | X | | | 19 | | | | | | | | |
| EXB-7-MS/MSD | | | | 12/15/22 | 0925 | 9 | X | | | 20 | | | | | | | | |
| EXB-10 | | | | | 0950 | 3 | X | | | 21 | | | | | | | | |
| MW-121522 | | | | | 0800 | 3 | X | | | 22 | | | | | | | | |
| EW-14 | | | | | 1015 | 4 | X | | | 23 | | | | | | | | |
| MW-13C | | | | | 1030 | 2 | X | | | 24 | | | | | | | | |
| EB-121522 | | | | | 1005 | 3 | X | | | 25 | | | | | | | | |
| EXB-9 | | | | | 1145 | 3 | X | | | 26 | | | | | | | | |
| TRIP BLANK | AQ | — | — | — | — | 2 | X | | | 27 | | | | | | | | |

WSP USA
Emersub 15, LLC, Ithaca, NY

TS-12822-151

Please place on the back of original (white copy of COC)
This will assist us in processing your samples.
Thank You

| Relinquished By (Signature) | Date | Time | Received By (Signature) | Date | Time | Shipment Method | Tracking Number(s) |
|---|---|---|---|---|---|---|---|
| | 12/19/22 | 1530 | Fedex | | | FEDEX | |
| Relinquished By (Signature) | Date | Time | Received By (Signature) | Date | Time | Number of Packages | Custody Seal Number(s) |
| Fedex | 12/20/22 | 10:00 | JP | | | 1 | |

*Use stop time/date for composite and/or air samples; use only start time/date for all other samples.

Matrix: AQ = Aqueous, S = Soil, SE = Sediment, A = Air, W = Wipe, B = Bulk, O = Other (detail in comments)

**JD57555: Chain of Custody**
**Page 2 of 3**

# SGS Sample Receipt Summary

**Job Number:** JD57555 **Client:** WSP USA **Project:** EMERSUB 15, LLC, ITHACA, NY

**Date / Time Received:** 12/20/2022 10:00:00 AM **Delivery Method:** **Airbill #'s:**

**Cooler Temps (Raw Measured) °C:** Cooler 1: (3.0);

**Cooler Temps (Corrected) °C:** Cooler 1: (3.0);

| Cooler Security | Y | or | N | | Y | or | N |
|---|---|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | | ☐ | 3. COC Present: | ☑ | | ☐ |
| 2. Custody Seals Intact: | ☑ | | ☐ | 4. Smpl Dates/Time OK | ☑ | | ☐ |

| Cooler Temperature | Y | or | N |
|---|---|---|---|
| 1. Temp criteria achieved: | ☑ | | ☐ |
| 2. Cooler temp verification: | | | |
| 3. Cooler media: | Ice (Bag) | | |
| 4. No. Coolers: | 1 | | |

| Quality Control Preservation | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Trip Blank present / cooler: | ☑ | | ☐ | ☐ |
| 2. Trip Blank listed on COC: | ☑ | | ☐ | ☐ |
| 3. Samples preserved properly: | ☑ | | ☐ | |
| 4. VOCs headspace free: | ☑ | | ☐ | ☐ |

| Sample Integrity - Documentation | Y | or | N |
|---|---|---|---|
| 1. Sample labels present on bottles: | ☑ | | ☐ |
| 2. Container labeling complete: | ☑ | | ☐ |
| 3. Sample container label / COC agree: | ☑ | | ☐ |

| Sample Integrity - Condition | Y | or | N |
|---|---|---|---|
| 1. Sample recvd within HT: | ☑ | | ☐ |
| 2. All containers accounted for: | ☑ | | ☐ |
| 3. Condition of sample: | Intact | | |

| Sample Integrity - Instructions | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | | ☐ | |
| 4. Compositing instructions clear: | ☐ | | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | | ☐ | ☑ |

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*
*Automated Report*

Technical Report for

WSP USA Environment & Infrastructure Inc

EPT, Ithaca, NY

31401545.001 TASK1

SGS Job Number: JD52514

Sampling Date: 09/22/22



Report to:

WSP
13530 DULLES TECHNOLOGY DRIVE Suite 300
Herndon, VA 20171
Nathaniel.Winston@wsp.com; jeffrey.baker@wsp.com

ATTN: Nathaniel Winston

Total number of pages in report: **600**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.



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Please share your ideas about how we can serve you better at:
EHS.US.CustomerCare@sgs.com

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SGS North America Inc.

# Sample Summary

WSP USA Environment & Infrastructure Inc

**Job No:** JD52514

EPT, Ithaca, NY
Project No: 31401545.001 TASK1

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL | | | | | | | |
| JD52514-1 | 09/22/22 | 16:00 | NW | 09/24/22 | AQ | Ground Water | EW-1-62C |
| JD52514-2 | 09/22/22 | 16:05 | NW | 09/24/22 | AQ | Ground Water | EW-2-62C |
| JD52514-3 | 09/22/22 | 16:10 | NW | 09/24/22 | AQ | Ground Water | EW-3-60C |
| JD52514-4 | 09/22/22 | 16:15 | NW | 09/24/22 | AQ | Ground Water | EW-4-25B |
| JD52514-5 | 09/22/22 | 16:20 | NW | 09/24/22 | AQ | Ground Water | EW-5-25B |
| JD52514-6 | 09/22/22 | 16:25 | NW | 09/24/22 | AQ | Ground Water | EW-6-60C |
| JD52514-7 | 09/22/22 | 16:30 | NW | 09/24/22 | AQ | Ground Water | EW-7-25B |
| JD52514-8 | 09/22/22 | 16:35 | NW | 09/24/22 | AQ | Ground Water | EW-8-62C |
| JD52514-9 | 09/22/22 | 16:40 | NW | 09/24/22 | AQ | Ground Water | EW-9R-72C |
| JD52514-10 | 09/22/22 | 16:45 | NW | 09/24/22 | AQ | Ground Water | EW-10-25B |
| JD52514-11 | 09/22/22 | 16:50 | NW | 09/24/22 | AQ | Ground Water | EW-11-43C |
| JD52514-12 | 09/22/22 | 16:55 | NW | 09/24/22 | AQ | Ground Water | EW-12-45C |

# Sample Summary
(continued)

WSP USA Environment & Infrastructure Inc

**Job No:** JD52514

EPT, Ithaca, NY
Project No: 31401545.001 TASK1

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Matrix Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JD52514-13 | 09/22/22 | 16:55 | NW | 09/24/22 | AQ | Trip Blank Water | TRIP BLANK |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | WSP USA Environment & Infrastructure Inc | **Job No** | JD52514 |
| **Site:** | EPT, Ithaca, NY | **Report Date** | 10/10/2022 12:15:36 P |

On 09/24/2022, 12 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD52514 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

## MS Volatiles By Method SW846 8260D

**Matrix:** AQ **Batch ID:** V1X8639

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD52514-8MS, JD52514-8MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD52514-8: Dilution required due to high concentration of target compound.
- JD52514-6: Dilution required due to high concentration of target compound.
- JD52514-7: Dilution required due to high concentration of target compound.
- JD52514-3: Dilution required due to high concentration of target compound.
- JD52514-9: Dilution required due to high concentration of target compound.
- JD52514-5: Dilution required due to high concentration of target compound.
- JD52514-5 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52514-3 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52514-6 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52514-9 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52514-8 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52514-7 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52514-1 for Chloroform: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52514-2 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52514-1 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52514-1 for Carbon tetrachloride: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52514-2,-3,-5,-6,-7,-8,-9 for Chloroform: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52514-2,-3,-5,-6,-7,-8,-9 for Carbon tetrachloride: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

## MS Volatiles By Method SW846 8260D

**Matrix:** AQ **Batch ID:** V2A9583

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD52514-12MS, JD52514-12MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD52514-12: Dilution required due to high concentration of target compound.
- JD52514-12 for Chloroethane, Cyclohexane: Associated CCV outside of control limits high, sample was ND.
- JD52514-12MS for 1,2-Dichloroethane-D4: Outside control limits due to matrix interference.
- JD52514-12MSD for 1,2-Dichloroethane-D4: Outside control limits due to matrix interference.

**Matrix:** AQ **Batch ID:** V4D5406

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD52514-2MS, JD52514-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Acetone are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for 2-Hexanone, Methyl Acetate are outside control limits.
- RPD(s) for MSD for Dichlorodifluoromethane are outside control limits for sample JD52514-2MSD. Outside control limits due to matrix interference.
- JD52514-4: Dilution required due to high concentration of target compound.
- JD52514-4 for Acetone, 2-Butanone, 1,2-Dibromo-3-chloropropane, 4-Methyl-2-pentanone(MIBK): Associated CCV outside of control limits high, sample was ND.
- JD52514-4 for 2-Hexanone, Methyl Acetate: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52514-4 for Bromomethane, Chloromethane Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52514-4 for Vinyl chloride: Associated CCV outside of control limits low.
- JD52514-13 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52514-13 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD52514-13 for Methyl Acetate: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52514-2MS for Methyl Acetate: Outside in house control limits.
- JD52514-2MS for 2-Hexanone: Outside in house control limits.
- JD52514-13 for 4-Methyl-2-pentanone(MIBK): Associated CCV outside of control limits high, sample was ND.
- JD52514-13 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- V4D5406-BS for 2-Hexanone: High percent recovery and no associated positive reported in the QC batch.
- JD52514-13 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits high, sample was ND.
- JD52514-13 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52514-13 for 2-Hexanone: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- V4D5406-BS for Methyl Acetate: High percent recovery and no associated positive reported in the QC batch.
- JD52514-13 for Vinyl chloride: Associated CCV outside of control limits low.

**Matrix:** AQ **Batch ID:** VL10517

- All samples were analyzed within the recommended method holding time.

## MS Volatiles By Method SW846 8260D

**Matrix:** AQ **Batch ID:** VL10517

- All method blanks for this batch meet method specific criteria.
- Sample(s) JD52644-1MS, JD52644-1MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Acetone are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 1,1,1-Trichloroethane are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for 1,1-Dichloroethane are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD52514-11: Dilution required due to high concentration of target compound.
- JD52514-11 for Bromomethane, Carbon disulfide: Associated CCV outside of control limits low.
- JD52514-10 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52514-10 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

# Summary of Hits

**Job Number:** JD52514
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 09/22/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **JD52514-1** | **EW-1-62C** | | | | | |
| cis-1,2-Dichloroethene | | 321 | 10 | 5.1 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene | | 3.2 | 1.0 | 0.54 | ug/l | SW846 8260D |
| Trichloroethene | | 33.6 | 1.0 | 0.53 | ug/l | SW846 8260D |
| Vinyl chloride | | 31.1 | 1.0 | 0.52 | ug/l | SW846 8260D |
| **JD52514-2** | **EW-2-62C** | | | | | |
| cis-1,2-Dichloroethene | | 403 | 10 | 5.1 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene | | 3.5 | 1.0 | 0.54 | ug/l | SW846 8260D |
| Trichloroethene | | 70.8 | 1.0 | 0.53 | ug/l | SW846 8260D |
| Vinyl chloride | | 24.4 | 1.0 | 0.52 | ug/l | SW846 8260D |
| **JD52514-3** | **EW-3-60C** | | | | | |
| 1,1-Dichloroethene [a] | | 1.6 J | 2.0 | 1.2 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 1100 | 20 | 10 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 15.1 | 2.0 | 1.1 | ug/l | SW846 8260D |
| Trichloroethene | | 960 | 20 | 11 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 36.2 | 2.0 | 1.0 | ug/l | SW846 8260D |
| **JD52514-4** | **EW-4-25B** | | | | | |
| cis-1,2-Dichloroethene [a] | | 772 | 4.0 | 2.0 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 8.4 | 4.0 | 2.1 | ug/l | SW846 8260D |
| Trichloroethene | | 867 | 25 | 13 | ug/l | SW846 8260D |
| **JD52514-5** | **EW-5-25B** | | | | | |
| cis-1,2-Dichloroethene | | 673 | 5.0 | 2.5 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 5.5 | 2.0 | 1.1 | ug/l | SW846 8260D |
| Trichloroethene [a] | | 386 | 2.0 | 1.1 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 8.4 | 2.0 | 1.0 | ug/l | SW846 8260D |
| **JD52514-6** | **EW-6-60C** | | | | | |
| cis-1,2-Dichloroethene | | 880 | 10 | 5.1 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 3.7 | 2.0 | 1.1 | ug/l | SW846 8260D |
| Trichloroethene [a] | | 142 | 2.0 | 1.1 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 4.0 | 2.0 | 1.0 | ug/l | SW846 8260D |
| **JD52514-7** | **EW-7-25B** | | | | | |
| 1,1-Dichloroethene [a] | | 3.6 J | 5.0 | 3.0 | ug/l | SW846 8260D |

# Summary of Hits

**Job Number:** JD52514
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 09/22/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | | 2230 | 50 | 25 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 24.4 | 5.0 | 2.7 | ug/l | SW846 8260D |
| Trichloroethene [a] | | 92.3 | 5.0 | 2.6 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 97.4 | 5.0 | 2.6 | ug/l | SW846 8260D |
| **JD52514-8** | **EW-8-62C** | | | | | |
| cis-1,2-Dichloroethene | | 3080 | 100 | 51 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 15.8 | 10 | 5.4 | ug/l | SW846 8260D |
| Trichloroethene [a] | | 296 | 10 | 5.3 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 48.5 | 10 | 5.2 | ug/l | SW846 8260D |
| **JD52514-9** | **EW-9R-72C** | | | | | |
| cis-1,2-Dichloroethene | | 1730 | 10 | 5.1 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 5.0 | 5.0 | 2.7 | ug/l | SW846 8260D |
| Trichloroethene [a] | | 28.2 | 5.0 | 2.6 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 85.2 | 5.0 | 2.6 | ug/l | SW846 8260D |
| **JD52514-10** | **EW-10-25B** | | | | | |
| cis-1,2-Dichloroethene | | 343 | 10 | 5.1 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene | | 3.6 | 1.0 | 0.54 | ug/l | SW846 8260D |
| Trichloroethene | | 124 | 1.0 | 0.53 | ug/l | SW846 8260D |
| Vinyl chloride | | 4.0 | 1.0 | 0.52 | ug/l | SW846 8260D |
| **JD52514-11** | **EW-11-43C** | | | | | |
| 1,1-Dichloroethene [a] | | 49.9 J | 50 | 30 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 21900 | 250 | 130 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 124 | 50 | 27 | ug/l | SW846 8260D |
| Trichloroethene | | 26600 | 250 | 130 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 587 | 50 | 26 | ug/l | SW846 8260D |
| **JD52514-12** | **EW-12-45C** | | | | | |
| Chloroform [a] | | 3.7 J | 5.0 | 2.5 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 2030 | 50 | 25 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 4.7 J | 5.0 | 2.7 | ug/l | SW846 8260D |
| Trichloroethene [a] | | 68.6 | 5.0 | 2.6 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 44.5 | 5.0 | 2.6 | ug/l | SW846 8260D |
| **JD52514-13** | **TRIP BLANK** | | | | | |
| Chloroform | | 1.6 | 1.0 | 0.50 | ug/l | SW846 8260D |

# Summary of Hits

**Job Number:** JD52514
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 09/22/22



| Lab Sample ID<br>Analyte | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|

(a) Dilution required due to high concentration of target compound.

## Sample Results

Report of Analysis

SGS North America Inc.

# Report of Analysis





**Client Sample ID:** EW-1-62C
**Lab Sample ID:** JD52514-1
**Matrix:** AQ - Ground Water
**Method:** SW846 8260D
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/24/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1X200650.D | 1 | 09/30/22 12:31 | TS | n/a | n/a | V1X8639 |
| Run #2 | 4D121709.D | 10 | 09/30/22 03:01 | TS | n/a | n/a | V4D5406 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide [a] | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride [a] | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform [a] | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 321 [b] | 10 | 5.1 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 3.2 | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-1-62C | | |
| **Lab Sample ID:** | JD52514-1 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 33.6 | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 31.1 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | 106% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | 97% | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | 101% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 102% | 97% | 82-114% |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-2-62C | | |
| **Lab Sample ID:** | JD52514-2 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1X200653.D | 1 | 09/30/22 13:40 | TS | n/a | n/a | V1X8639 |
| Run #2 | 4D121702.D | 10 | 09/29/22 23:39 | TS | n/a | n/a | V4D5406 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide [a] | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride [a] | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform [a] | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 403 [b] | 10 | 5.1 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 3.5 | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-2-62C | | |
| **Lab Sample ID:** | JD52514-2 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 70.8 | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 24.4 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 95% | 105% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | 98% | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | 99% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 98% | 82-114% |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-3-60C | | |
| **Lab Sample ID:** | JD52514-3 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 1X200657.D | 2 | 09/30/22 15:13 | TS | n/a | n/a | V1X8639 |
| Run #2 | 4D121710.D | 20 | 09/30/22 03:30 | TS | n/a | n/a | V4D5406 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 20 | 6.1 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.85 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 2.0 | 0.90 | ug/l | |
| 75-25-2 | Bromoform | ND | 2.0 | 1.3 | ug/l | |
| 74-83-9 | Bromomethane | ND | 4.0 | 3.3 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 20 | 5.5 | ug/l | |
| 75-15-0 | Carbon disulfide [b] | ND | 4.0 | 0.91 | ug/l | |
| 56-23-5 | Carbon tetrachloride [b] | ND | 2.0 | 1.1 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 2.0 | 1.1 | ug/l | |
| 75-00-3 | Chloroethane | ND | 2.0 | 1.5 | ug/l | |
| 67-66-3 | Chloroform [b] | ND | 2.0 | 1.0 | ug/l | |
| 74-87-3 | Chloromethane | ND | 2.0 | 1.5 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 10 | 1.6 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 4.0 | 1.1 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 2.0 | 1.1 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.95 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.0 | 1.1 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.0 | 1.1 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.0 | 1.0 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.0 | 1.1 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.0 | 1.1 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.0 | 1.2 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | 1.6 | 2.0 | 1.2 | ug/l | J |
| 156-59-2 | cis-1,2-Dichloroethene | 1100 [c] | 20 | 10 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 15.1 | 2.0 | 1.1 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.0 | 1.0 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.0 | 0.94 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.0 | 0.86 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 2.0 | 1.2 | ug/l | |
| 76-13-1 | Freon 113 | ND | 10 | 1.2 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 10 | 4.1 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 1.3 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-3-60C | | |
| **Lab Sample ID:** | JD52514-3 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 10 | 1.6 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 10 | 1.2 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 2.0 | 1.0 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 10 | 3.7 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 4.0 | 2.0 | ug/l | |
| 100-42-5 | Styrene | ND | 2.0 | 0.97 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.0 | 1.3 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 2.0 | 1.1 | ug/l | |
| 108-88-3 | Toluene | ND | 2.0 | 0.98 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.0 | 1.0 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.0 | 1.1 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.0 | 1.1 | ug/l | |
| 79-01-6 | Trichloroethene | 960 [c] | 20 | 11 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.0 | 0.80 | ug/l | |
| 75-01-4 | Vinyl chloride | 36.2 | 2.0 | 1.0 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 2.0 | 1.2 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 95% | 104% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | 96% | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | 100% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 98% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





**Client Sample ID:** EW-4-25B
**Lab Sample ID:** JD52514-4
**Matrix:** AQ - Ground Water
**Method:** SW846 8260D
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/24/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 4D121711.D | 4 | 09/30/22 03:59 | TS | n/a | n/a | V4D5406 |
| Run #2 | 1X200655.D | 25 | 09/30/22 14:26 | TS | n/a | n/a | V1X8639 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [b] | ND | 40 | 12 | ug/l | |
| 71-43-2 | Benzene | ND | 2.0 | 1.7 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 4.0 | 1.8 | ug/l | |
| 75-25-2 | Bromoform | ND | 4.0 | 2.5 | ug/l | |
| 74-83-9 | Bromomethane [c] | ND | 8.0 | 6.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) [b] | ND | 40 | 11 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 8.0 | 1.8 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 4.0 | 2.2 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 4.0 | 2.2 | ug/l | |
| 75-00-3 | Chloroethane | ND | 4.0 | 2.9 | ug/l | |
| 67-66-3 | Chloroform | ND | 4.0 | 2.0 | ug/l | |
| 74-87-3 | Chloromethane [c] | ND | 4.0 | 3.0 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 20 | 3.1 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropan [b] | ND | 8.0 | 2.1 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 4.0 | 2.2 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 4.0 | 1.9 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 4.0 | 2.1 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 4.0 | 2.2 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 4.0 | 2.0 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 8.0 | 2.2 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 4.0 | 2.3 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 4.0 | 2.4 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 4.0 | 2.4 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 772 | 4.0 | 2.0 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 8.4 | 4.0 | 2.1 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 4.0 | 2.0 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 4.0 | 1.9 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 4.0 | 1.7 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 4.0 | 2.4 | ug/l | |
| 76-13-1 | Freon 113 | ND | 20 | 2.3 | ug/l | |
| 591-78-6 | 2-Hexanone [d] | ND | 20 | 8.1 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 4.0 | 2.6 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-4-25B | | |
| **Lab Sample ID:** | JD52514-4 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate [d] | ND | 20 | 3.2 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 20 | 2.4 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 4.0 | 2.0 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK [b] | ND | 20 | 7.4 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 8.0 | 4.0 | ug/l | |
| 100-42-5 | Styrene | ND | 4.0 | 1.9 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 4.0 | 2.6 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 4.0 | 2.2 | ug/l | |
| 108-88-3 | Toluene | ND | 4.0 | 2.0 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.0 | 2.0 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 4.0 | 2.1 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 4.0 | 2.1 | ug/l | |
| 79-01-6 | Trichloroethene | 867 [e] | 25 | 13 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 8.0 | 1.6 | ug/l | |
| 75-01-4 | Vinyl chloride [f] | ND | 4.0 | 2.1 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 4.0 | 2.4 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 105% | 95% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | 98% | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | 99% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | 101% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high, sample was ND.
(c) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(d) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(e) Result is from Run# 2
(f) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-5-25B | | |
| **Lab Sample ID:** | JD52514-5 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 1X200656.D | 2 | 09/30/22 14:50 | TS | n/a | n/a | V1X8639 |
| Run #2 | 4D121712.D | 5 | 09/30/22 04:28 | TS | n/a | n/a | V4D5406 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 20 | 6.1 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.85 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 2.0 | 0.90 | ug/l | |
| 75-25-2 | Bromoform | ND | 2.0 | 1.3 | ug/l | |
| 74-83-9 | Bromomethane | ND | 4.0 | 3.3 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 20 | 5.5 | ug/l | |
| 75-15-0 | Carbon disulfide [b] | ND | 4.0 | 0.91 | ug/l | |
| 56-23-5 | Carbon tetrachloride [b] | ND | 2.0 | 1.1 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 2.0 | 1.1 | ug/l | |
| 75-00-3 | Chloroethane | ND | 2.0 | 1.5 | ug/l | |
| 67-66-3 | Chloroform [b] | ND | 2.0 | 1.0 | ug/l | |
| 74-87-3 | Chloromethane | ND | 2.0 | 1.5 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 10 | 1.6 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 4.0 | 1.1 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 2.0 | 1.1 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.95 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.0 | 1.1 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.0 | 1.1 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.0 | 1.0 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.0 | 1.1 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.0 | 1.1 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.0 | 1.2 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.0 | 1.2 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 673 [c] | 5.0 | 2.5 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 5.5 | 2.0 | 1.1 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.0 | 1.0 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.0 | 0.94 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.0 | 0.86 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 2.0 | 1.2 | ug/l | |
| 76-13-1 | Freon 113 | ND | 10 | 1.2 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 10 | 4.1 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 1.3 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-5-25B | | |
| **Lab Sample ID:** | JD52514-5 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 10 | 1.6 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 10 | 1.2 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 2.0 | 1.0 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 10 | 3.7 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 4.0 | 2.0 | ug/l | |
| 100-42-5 | Styrene | ND | 2.0 | 0.97 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.0 | 1.3 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 2.0 | 1.1 | ug/l | |
| 108-88-3 | Toluene | ND | 2.0 | 0.98 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.0 | 1.0 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.0 | 1.1 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.0 | 1.1 | ug/l | |
| 79-01-6 | Trichloroethene | 386 | 2.0 | 1.1 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.0 | 0.80 | ug/l | |
| 75-01-4 | Vinyl chloride | 8.4 | 2.0 | 1.0 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 2.0 | 1.2 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 95% | 104% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | 96% | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | 96% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 91% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-6-60C | | |
| **Lab Sample ID:** | JD52514-6 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 1X200652.D | 2 | 09/30/22 13:17 | TS | n/a | n/a | V1X8639 |
| Run #2 | 4D121713.D | 10 | 09/30/22 04:57 | TS | n/a | n/a | V4D5406 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 20 | 6.1 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.85 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 2.0 | 0.90 | ug/l | |
| 75-25-2 | Bromoform | ND | 2.0 | 1.3 | ug/l | |
| 74-83-9 | Bromomethane | ND | 4.0 | 3.3 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 20 | 5.5 | ug/l | |
| 75-15-0 | Carbon disulfide [b] | ND | 4.0 | 0.91 | ug/l | |
| 56-23-5 | Carbon tetrachloride [b] | ND | 2.0 | 1.1 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 2.0 | 1.1 | ug/l | |
| 75-00-3 | Chloroethane | ND | 2.0 | 1.5 | ug/l | |
| 67-66-3 | Chloroform [b] | ND | 2.0 | 1.0 | ug/l | |
| 74-87-3 | Chloromethane | ND | 2.0 | 1.5 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 10 | 1.6 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 4.0 | 1.1 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 2.0 | 1.1 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.95 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 2.0 | 1.1 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 2.0 | 1.1 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 2.0 | 1.0 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.0 | 1.1 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 2.0 | 1.1 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 2.0 | 1.2 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 2.0 | 1.2 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 880 [c] | 10 | 5.1 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 3.7 | 2.0 | 1.1 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 2.0 | 1.0 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 2.0 | 0.94 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 2.0 | 0.86 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 2.0 | 1.2 | ug/l | |
| 76-13-1 | Freon 113 | ND | 10 | 1.2 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 10 | 4.1 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 2.0 | 1.3 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-6-60C | | |
| **Lab Sample ID:** | JD52514-6 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 10 | 1.6 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 10 | 1.2 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 2.0 | 1.0 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 10 | 3.7 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 4.0 | 2.0 | ug/l | |
| 100-42-5 | Styrene | ND | 2.0 | 0.97 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 2.0 | 1.3 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 2.0 | 1.1 | ug/l | |
| 108-88-3 | Toluene | ND | 2.0 | 0.98 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.0 | 1.0 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 2.0 | 1.1 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 2.0 | 1.1 | ug/l | |
| 79-01-6 | Trichloroethene | 142 | 2.0 | 1.1 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.0 | 0.80 | ug/l | |
| 75-01-4 | Vinyl chloride | 4.0 | 2.0 | 1.0 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 2.0 | 1.2 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | 106% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | 97% | 80-120% |
| 2037-26-5 | Toluene-D8 | 98% | 100% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 98% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-7-25B | | |
| **Lab Sample ID:** | JD52514-7 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 1X200654.D | 5 | 09/30/22 14:03 | TS | n/a | n/a | V1X8639 |
| Run #2 | 1X200661.D | 50 | 09/30/22 16:46 | TS | n/a | n/a | V1X8639 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 50 | 15 | ug/l | |
| 71-43-2 | Benzene | ND | 2.5 | 2.1 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 2.3 | ug/l | |
| 75-25-2 | Bromoform | ND | 5.0 | 3.2 | ug/l | |
| 74-83-9 | Bromomethane | ND | 10 | 8.2 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 50 | 14 | ug/l | |
| 75-15-0 | Carbon disulfide [b] | ND | 10 | 2.3 | ug/l | |
| 56-23-5 | Carbon tetrachloride [b] | ND | 5.0 | 2.8 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 2.8 | ug/l | |
| 75-00-3 | Chloroethane | ND | 5.0 | 3.6 | ug/l | |
| 67-66-3 | Chloroform [b] | ND | 5.0 | 2.5 | ug/l | |
| 74-87-3 | Chloromethane | ND | 5.0 | 3.8 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 25 | 3.9 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 2.6 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 2.8 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | 2.4 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | 2.7 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | 2.7 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | 2.5 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 10 | 2.8 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 2.8 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 3.0 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | 3.6 | 5.0 | 3.0 | ug/l | J |
| 156-59-2 | cis-1,2-Dichloroethene | 2230 [c] | 50 | 25 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 24.4 | 5.0 | 2.7 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 2.5 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 2.4 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | 2.2 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 3.0 | ug/l | |
| 76-13-1 | Freon 113 | ND | 25 | 2.9 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 25 | 10 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 5.0 | 3.2 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-7-25B | | |
| **Lab Sample ID:** | JD52514-7 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 25 | 4.0 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 25 | 3.0 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.0 | 2.5 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 25 | 9.3 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 10 | 5.0 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 2.4 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | 3.3 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 5.0 | 2.8 | ug/l | |
| 108-88-3 | Toluene | ND | 5.0 | 2.5 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 2.5 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 2.7 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 2.7 | ug/l | |
| 79-01-6 | Trichloroethene | 92.3 | 5.0 | 2.6 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 10 | 2.0 | ug/l | |
| 75-01-4 | Vinyl chloride | 97.4 | 5.0 | 2.6 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 5.0 | 3.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | 96% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | 97% | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | 100% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 100% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-8-62C | | |
| **Lab Sample ID:** | JD52514-8 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 1X200649.D | 10 | 09/30/22 12:08 | TS | n/a | n/a | V1X8639 |
| Run #2 | 1X200648.D | 100 | 09/30/22 11:44 | TS | n/a | n/a | V1X8639 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 100 | 31 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 4.3 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 10 | 4.5 | ug/l | |
| 75-25-2 | Bromoform | ND | 10 | 6.3 | ug/l | |
| 74-83-9 | Bromomethane | ND | 20 | 16 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 100 | 27 | ug/l | |
| 75-15-0 | Carbon disulfide [b] | ND | 20 | 4.6 | ug/l | |
| 56-23-5 | Carbon tetrachloride [b] | ND | 10 | 5.5 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 10 | 5.6 | ug/l | |
| 75-00-3 | Chloroethane | ND | 10 | 7.3 | ug/l | |
| 67-66-3 | Chloroform [b] | ND | 10 | 5.0 | ug/l | |
| 74-87-3 | Chloromethane | ND | 10 | 7.6 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 50 | 7.8 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 20 | 5.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 10 | 5.6 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 10 | 4.8 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 10 | 5.3 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 10 | 5.4 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 10 | 5.1 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 20 | 5.6 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 10 | 5.7 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 10 | 6.0 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 10 | 5.9 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 3080 [c] | 100 | 51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 15.8 | 10 | 5.4 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 10 | 5.1 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 10 | 4.7 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 10 | 4.3 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 10 | 6.0 | ug/l | |
| 76-13-1 | Freon 113 | ND | 50 | 5.8 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 50 | 20 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 10 | 6.5 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-8-62C | | |
| **Lab Sample ID:** | JD52514-8 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 50 | 8.0 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 50 | 6.0 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 10 | 5.1 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 50 | 19 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 20 | 10 | ug/l | |
| 100-42-5 | Styrene | ND | 10 | 4.9 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 10 | 6.5 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 10 | 5.6 | ug/l | |
| 108-88-3 | Toluene | ND | 10 | 4.9 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 10 | 5.0 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 10 | 5.4 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 10 | 5.3 | ug/l | |
| 79-01-6 | Trichloroethene | 296 | 10 | 5.3 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 20 | 4.0 | ug/l | |
| 75-01-4 | Vinyl chloride | 48.5 | 10 | 5.2 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 10 | 5.9 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | 96% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | 98% | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | 100% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 101% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-9R-72C | | |
| **Lab Sample ID:** | JD52514-9 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 1X200651.D | 5 | 09/30/22 12:54 | TS | n/a | n/a | V1X8639 |
| Run #2 | 4D121716.D | 10 | 09/30/22 06:23 | TS | n/a | n/a | V4D5406 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 50 | 15 | ug/l | |
| 71-43-2 | Benzene | ND | 2.5 | 2.1 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 2.3 | ug/l | |
| 75-25-2 | Bromoform | ND | 5.0 | 3.2 | ug/l | |
| 74-83-9 | Bromomethane | ND | 10 | 8.2 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 50 | 14 | ug/l | |
| 75-15-0 | Carbon disulfide [b] | ND | 10 | 2.3 | ug/l | |
| 56-23-5 | Carbon tetrachloride [b] | ND | 5.0 | 2.8 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 2.8 | ug/l | |
| 75-00-3 | Chloroethane | ND | 5.0 | 3.6 | ug/l | |
| 67-66-3 | Chloroform [b] | ND | 5.0 | 2.5 | ug/l | |
| 74-87-3 | Chloromethane | ND | 5.0 | 3.8 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 25 | 3.9 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 2.6 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 2.8 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | 2.4 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | 2.7 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | 2.7 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | 2.5 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 10 | 2.8 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 2.8 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 3.0 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.0 | 3.0 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 1730 [c] | 10 | 5.1 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 5.0 | 5.0 | 2.7 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 2.5 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 2.4 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | 2.2 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 3.0 | ug/l | |
| 76-13-1 | Freon 113 | ND | 25 | 2.9 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 25 | 10 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 5.0 | 3.2 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-9R-72C | | |
| **Lab Sample ID:** | JD52514-9 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 25 | 4.0 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 25 | 3.0 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.0 | 2.5 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 25 | 9.3 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 10 | 5.0 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 2.4 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | 3.3 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 5.0 | 2.8 | ug/l | |
| 108-88-3 | Toluene | ND | 5.0 | 2.5 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 2.5 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 2.7 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 2.7 | ug/l | |
| 79-01-6 | Trichloroethene | 28.2 | 5.0 | 2.6 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 10 | 2.0 | ug/l | |
| 75-01-4 | Vinyl chloride | 85.2 | 5.0 | 2.6 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 5.0 | 3.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | 106% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | 97% | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | 101% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 98% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-10-25B | | |
| **Lab Sample ID:** | JD52514-10 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L347779.D | 1 | 10/03/22 16:09 | NH | n/a | n/a | VL10517 |
| Run #2 | L347778.D | 10 | 10/03/22 15:46 | NH | n/a | n/a | VL10517 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [a] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide [a] | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 343 [b] | 10 | 5.1 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 3.6 | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-10-25B | | |
| **Lab Sample ID:** | JD52514-10 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 124 | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 4.0 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | 98% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | 96% | 80-120% |
| 2037-26-5 | Toluene-D8 | 97% | 100% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | 93% | 82-114% |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-11-43C | | |
| **Lab Sample ID:** | JD52514-11 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | L347780.D | 50 | 10/03/22 16:32 | NH | n/a | n/a | VL10517 |
| Run #2 | L347786.D | 250 | 10/03/22 18:51 | NH | n/a | n/a | VL10517 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 500 | 150 | ug/l | |
| 71-43-2 | Benzene | ND | 25 | 21 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 50 | 23 | ug/l | |
| 75-25-2 | Bromoform | ND | 50 | 32 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 100 | 82 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 500 | 140 | ug/l | |
| 75-15-0 | Carbon disulfide [b] | ND | 100 | 23 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 50 | 28 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 50 | 28 | ug/l | |
| 75-00-3 | Chloroethane | ND | 50 | 36 | ug/l | |
| 67-66-3 | Chloroform | ND | 50 | 25 | ug/l | |
| 74-87-3 | Chloromethane | ND | 50 | 38 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 250 | 39 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 100 | 26 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 50 | 28 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 50 | 24 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 50 | 27 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 50 | 27 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 50 | 25 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 100 | 28 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 50 | 28 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 50 | 30 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | 49.9 | 50 | 30 | ug/l | J |
| 156-59-2 | cis-1,2-Dichloroethene | 21900 [c] | 250 | 130 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 124 | 50 | 27 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 50 | 25 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 50 | 24 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 50 | 22 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 50 | 30 | ug/l | |
| 76-13-1 | Freon 113 | ND | 250 | 29 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 250 | 100 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 50 | 32 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-11-43C | | |
| **Lab Sample ID:** | JD52514-11 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 250 | 40 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 250 | 30 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 50 | 25 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 250 | 93 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 100 | 50 | ug/l | |
| 100-42-5 | Styrene | ND | 50 | 24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 50 | 33 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 50 | 28 | ug/l | |
| 108-88-3 | Toluene | ND | 50 | 25 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 50 | 25 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 50 | 27 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 50 | 27 | ug/l | |
| 79-01-6 | Trichloroethene | 26600 [c] | 250 | 130 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 100 | 20 | ug/l | |
| 75-01-4 | Vinyl chloride | 587 | 50 | 26 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 50 | 30 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 100% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | 95% | 80-120% |
| 2037-26-5 | Toluene-D8 | 96% | 98% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | 93% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits low.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-12-45C | | |
| **Lab Sample ID:** | JD52514-12 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 2A220447.D | 5 | 09/30/22 13:40 | NH | n/a | n/a | V2A9583 |
| Run #2 | 2A220449.D | 50 | 09/30/22 14:37 | NH | n/a | n/a | V2A9583 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 50 | 15 | ug/l | |
| 71-43-2 | Benzene | ND | 2.5 | 2.1 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 2.3 | ug/l | |
| 75-25-2 | Bromoform | ND | 5.0 | 3.2 | ug/l | |
| 74-83-9 | Bromomethane | ND | 10 | 8.2 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 50 | 14 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 10 | 2.3 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 2.8 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 2.8 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 5.0 | 3.6 | ug/l | |
| 67-66-3 | Chloroform | 3.7 | 5.0 | 2.5 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 5.0 | 3.8 | ug/l | |
| 110-82-7 | Cyclohexane [b] | ND | 25 | 3.9 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 2.6 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 2.8 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | 2.4 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | 2.7 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | 2.7 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | 2.5 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 10 | 2.8 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 2.8 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 3.0 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.0 | 3.0 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 2030 [c] | 50 | 25 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 4.7 | 5.0 | 2.7 | ug/l | J |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 2.5 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 2.4 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | 2.2 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 3.0 | ug/l | |
| 76-13-1 | Freon 113 | ND | 25 | 2.9 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 25 | 10 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 5.0 | 3.2 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-12-45C | | |
| **Lab Sample ID:** | JD52514-12 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 25 | 4.0 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 25 | 3.0 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.0 | 2.5 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 25 | 9.3 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 10 | 5.0 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 2.4 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | 3.3 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 5.0 | 2.8 | ug/l | |
| 108-88-3 | Toluene | ND | 5.0 | 2.5 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 2.5 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 2.7 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 2.7 | ug/l | |
| 79-01-6 | Trichloroethene | 68.6 | 5.0 | 2.6 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 10 | 2.0 | ug/l | |
| 75-01-4 | Vinyl chloride | 44.5 | 5.0 | 2.6 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 5.0 | 3.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 109% | 109% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 82% | 83% | 80-120% |
| 2037-26-5 | Toluene-D8 | 92% | 92% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 109% | 109% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high, sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | JD52514-13 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Trip Blank Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 4D121701.D | 1 | 09/29/22 23:10 | TS | n/a | n/a | V4D5406 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [a] | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) [a] | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | 1.6 | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropan [a] | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone [c] | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | JD52514-13 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Trip Blank Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate [c] | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK [a] | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride [d] | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 107% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
(d) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

## Misc. Forms

# Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

# CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-04-FORM Standard COC

GW TB

Page 1 of 1

FED-EX Tracking #

Bottle Order Control # TS-091922-35

SGS Quote #

SGS Job # JD52514

**Client / Reporting Information**

Company Name: WSP USA
Street Address:
City State Zip:
Project Contact: JEFFREY.BAKER@WSP.com E-mail
Phone # 315-420-9973
Sampler(s) Name(s): NATE WINSTON Phone #

**Project Information**

Project Name: FORMER EPT - ITHACA
Street: 620 S. Aurora ST
City: ITHACA, NY State
Project #: 31401545.601 TASK
Client Purchase Order #
Project Manager
Attention:

Billing Information (If different from Report to)
Company Name
Street Address
City State Zip

**Requested Analysis**

8260 TCL 4A

**Matrix Codes**

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

| SGS Sample # | Field ID / Point of Collection | MEOH/DI Vial # | Collection Date | Collection Time | Sampled by | Grab (G) Comp (C) | Source Chlorinated (Y/N) | Matrix | # of bottles | Number of preserved Bottles: HCl | NaOH | $HNO_3$ | $H_2SO_4$ | NONE | DI Water | MEOH | ENCORE | pH Check (Lab Use Only) | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EW-1-62C | | 9/19/22 | | NW | G | N | GW | 3 | X | | | | | | | | X | |
| 2 | EW-2-62C | | | | | | | | 3 | X | | | | | | | | X | |
| 3 | EW-3-60C | | | | | | | | 3 | X | | | | | | | | X | |
| 4 | EW-4-25B | | | | | | | | 3 | X | | | | | | | | X | |
| 5 | EW-5-25B | | | | | | | | 3 | X | | | | | | | | X | |
| 6 | EW-6-60C | | | | | | | | 3 | X | | | | | | | | X | |
| 7 | EW-7-25D | | | | | | | | 3 | X | | | | | | | | X | |
| 8 | EW-8-62C | | | | | | | | 3 | X | | | | | | | | X | |
| 9 | EW-9R-72C | | | | | | | | 3 | X | | | | | | | | X | |
| 10 | EW-10-25B | | | | | | | | 3 | X | | | | | | | | X | |
| 11 | EW-11-43C | | | | | | | | 3 | X | | | | | | | | X | |
| 12 | EW-12-45C | | | | | | | | 3 | X | | | | | | | | X | |
| -13 | Trip blank | | | | | | | | | | | | | | | | | | |

**Turn Around Time (Business Days)**

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

Initial Assessment: NA(3B)
Laboratory Verification:

All data available via Lablink
* Approval needed for 1-3 Business Day TAT

**Deliverable**

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

NY SDEC CAFB

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

**Comments / Special Instructions**

BNN Trip Blank

http://www.sgs.com/en/terms-and-conditions

**Sample Custody must be documented below each time samples change possession, including courier delivery.**

| Relinquished by: | Date / Time: | Received By: | Relinquished By: | Date / Time: | Received By: |
|---|---|---|---|---|---|
| 1 FedEx | 9/24 10:00 | 1 | 2 | | 2 |
| 3 | | 3 | 4 | | 4 |
| 5 | | 5 | Custody Seal # | Intact / Not intact / Absent | Therm ID: / On Ice / Cooler Temp. °C: 2.1 |

See Sample Receipt Summary

5.1.5

# SGS Sample Receipt Summary

**Job Number:** JD52514 **Client:** WSP **Project:** EPT, ITHACA, NY

**Date / Time Received:** 9/24/2022 10:00:00 AM **Delivery Method:** fedex **Airbill #'s:**

**Cooler Temps (Raw Measured) °C:** Cooler 1: (2.1);

**Cooler Temps (Corrected) °C:** Cooler 1: (2.7);

| Cooler Security | Y | or | N | | Y | or | N |
|---|---|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | | ☐ | 3. COC Present: | ☑ | | ☐ |
| 2. Custody Seals Intact: | ☑ | | ☐ | 4. Smpl Dates/Time OK | ☑ | | ☐ |

| Cooler Temperature | Y | or | N |
|---|---|---|---|
| 1. Temp criteria achieved: | ☑ | | ☐ |
| 2. Cooler temp verification: | IR Gun | | |
| 3. Cooler media: | Ice (Bag) | | |
| 4. No. Coolers: | 1 | | |

| Quality Control _Preservation | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Trip Blank present / cooler: | ☑ | | ☐ | ☐ |
| 2. Trip Blank listed on COC: | ☑ | | ☐ | ☐ |
| 3. Samples preserved properly: | ☑ | | ☐ | |
| 4. VOCs headspace free: | ☑ | | ☐ | ☐ |

| Sample Integrity - Documentation | Y | or | N |
|---|---|---|---|
| 1. Sample labels present on bottles: | ☑ | | ☐ |
| 2. Container labeling complete: | ☑ | | ☐ |
| 3. Sample container label / COC agree: | ☑ | | ☐ |

| Sample Integrity - Condition | Y | or | N |
|---|---|---|---|
| 1. Sample recvd within HT: | ☑ | | ☐ |
| 2. All containers accounted for: | ☑ | | ☐ |
| 3. Condition of sample: | Intact | | |

| Sample Integrity - Instructions | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | | ☐ | |
| 4. Compositing instructions clear: | ☐ | | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | | ☐ | ☑ |

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments: 1. No collection time on COC for samples -1 thru -13 please confirm.

Responded to by: Tammy Esposito McCloskey

Response Date: 9/27/2022

Sample times are as follows per Nathaniel Winston

| | |
|---|---|
| JD52514-1 | 16:00 |
| JD52514-2 | 16:05 |
| JD52514-3 | 16:10 |
| JD52514-4 | 16:15 |
| JD52514-5 | 16:20 |
| JD52514-6 | 16:25 |
| JD52514-7 | 16:30 |
| JD52514-8 | 16:35 |
| JD52514-9 | 16:40 |
| JD52514-10 | 16:45 |
| JD52514-11 | 16:50 |
| JD52514-12 | 16:55 |



## JD52514: Chain of Custody
## Page 3 of 3

# Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

**Job No:** JD52514

EPT, Ithaca, NY
Project No: 31401545.001 TASK1

| Sample Number | Method | Analyzed | By | Prepped | By | Test Codes |
|---|---|---|---|---|---|---|
| JD52514-1 | Collected: 22-SEP-22 16:00 | By: NW | Received: 24-SEP-22 | By: EN | | |
| EW-1-62C | | | | | | |
| JD52514-1 | SW846 8260D | 30-SEP-22 03:01 | TS | | | V8260TCL42 |
| JD52514-1 | SW846 8260D | 30-SEP-22 12:31 | TS | | | V8260TCL42 |
| JD52514-2 | Collected: 22-SEP-22 16:05 | By: NW | Received: 24-SEP-22 | By: EN | | |
| EW-2-62C | | | | | | |
| JD52514-2 | SW846 8260D | 29-SEP-22 23:39 | TS | | | V8260TCL42 |
| JD52514-2 | SW846 8260D | 30-SEP-22 13:40 | TS | | | V8260TCL42 |
| JD52514-3 | Collected: 22-SEP-22 16:10 | By: NW | Received: 24-SEP-22 | By: EN | | |
| EW-3-60C | | | | | | |
| JD52514-3 | SW846 8260D | 30-SEP-22 03:30 | TS | | | V8260TCL42 |
| JD52514-3 | SW846 8260D | 30-SEP-22 15:13 | TS | | | V8260TCL42 |
| JD52514-4 | Collected: 22-SEP-22 16:15 | By: NW | Received: 24-SEP-22 | By: EN | | |
| EW-4-25B | | | | | | |
| JD52514-4 | SW846 8260D | 30-SEP-22 03:59 | TS | | | V8260TCL42 |
| JD52514-4 | SW846 8260D | 30-SEP-22 14:26 | TS | | | V8260TCL42 |
| JD52514-5 | Collected: 22-SEP-22 16:20 | By: NW | Received: 24-SEP-22 | By: EN | | |
| EW-5-25B | | | | | | |
| JD52514-5 | SW846 8260D | 30-SEP-22 04:28 | TS | | | V8260TCL42 |
| JD52514-5 | SW846 8260D | 30-SEP-22 14:50 | TS | | | V8260TCL42 |
| JD52514-6 | Collected: 22-SEP-22 16:25 | By: NW | Received: 24-SEP-22 | By: EN | | |
| EW-6-60C | | | | | | |
| JD52514-6 | SW846 8260D | 30-SEP-22 04:57 | TS | | | V8260TCL42 |
| JD52514-6 | SW846 8260D | 30-SEP-22 13:17 | TS | | | V8260TCL42 |
| JD52514-7 | Collected: 22-SEP-22 16:30 | By: NW | Received: 24-SEP-22 | By: EN | | |
| EW-7-25B | | | | | | |
| JD52514-7 | SW846 8260D | 30-SEP-22 14:03 | TS | | | V8260TCL42 |

# Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

**Job No:** JD52514

EPT, Ithaca, NY
Project No: 31401545.001 TASK1

| Sample Number | Method | Analyzed | By | Prepped | By | Test Codes |
|---|---|---|---|---|---|---|
| JD52514-7 | SW846 8260D | 30-SEP-22 16:46 | TS | | | V8260TCL42 |
| JD52514-8 | Collected: 22-SEP-22 16:35 By: NW | | Received: 24-SEP-22 By: EN | | | |
| EW-8-62C | | | | | | |
| JD52514-8 | SW846 8260D | 30-SEP-22 11:44 | TS | | | V8260TCL42 |
| JD52514-8 | SW846 8260D | 30-SEP-22 12:08 | TS | | | V8260TCL42 |
| JD52514-9 | Collected: 22-SEP-22 16:40 By: NW | | Received: 24-SEP-22 By: EN | | | |
| EW-9R-72C | | | | | | |
| JD52514-9 | SW846 8260D | 30-SEP-22 06:23 | TS | | | V8260TCL42 |
| JD52514-9 | SW846 8260D | 30-SEP-22 12:54 | TS | | | V8260TCL42 |
| JD52514-10 | Collected: 22-SEP-22 16:45 By: NW | | Received: 24-SEP-22 By: EN | | | |
| EW-10-25B | | | | | | |
| JD52514-10 | SW846 8260D | 03-OCT-22 15:46 | NH | | | V8260TCL42 |
| JD52514-10 | SW846 8260D | 03-OCT-22 16:09 | NH | | | V8260TCL42 |
| JD52514-11 | Collected: 22-SEP-22 16:50 By: NW | | Received: 24-SEP-22 By: EN | | | |
| EW-11-43C | | | | | | |
| JD52514-11 | SW846 8260D | 03-OCT-22 16:32 | NH | | | V8260TCL42 |
| JD52514-11 | SW846 8260D | 03-OCT-22 18:51 | NH | | | V8260TCL42 |
| JD52514-12 | Collected: 22-SEP-22 16:55 By: NW | | Received: 24-SEP-22 By: EN | | | |
| EW-12-45C | | | | | | |
| JD52514-12 | SW846 8260D | 30-SEP-22 13:40 | NH | | | V8260TCL42 |
| JD52514-12 | SW846 8260D | 30-SEP-22 14:37 | NH | | | V8260TCL42 |
| JD52514-13 | Collected: 22-SEP-22 16:55 By: NW | | Received: 24-SEP-22 By: EN | | | |
| TRIP BLANK | | | | | | |
| JD52514-13 | SW846 8260D | 29-SEP-22 23:10 | TS | | | V8260TCL42 |

# SGS Internal Chain of Custody



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Received:** 09/24/22

| Sample.Bottle Number | Transfer FROM | Transfer TO | Date/Time | Reason |
|---|---|---|---|---|
| JD52514-1.1 | Secured Storage | Taylor Sauter | 09/30/22 11:39 | Retrieve from Storage |
| JD52514-1.1 | Taylor Sauter | GCMS1X | 09/30/22 11:39 | Load on Instrument |
| JD52514-1.1 | GCMS1X | Edward Durner | 10/04/22 14:22 | Unload from Instrument |
| JD52514-1.1 | Edward Durner | Secured Storage | 10/04/22 14:22 | Return to Storage |
| JD52514-1.2 | Secured Storage | Taylor Sauter | 09/29/22 15:31 | Retrieve from Storage |
| JD52514-1.2 | Taylor Sauter | GCMS4D | 09/29/22 15:31 | Load on Instrument |
| JD52514-1.2 | GCMS4D | Taylor Sauter | 09/30/22 10:47 | Unload from Instrument |
| JD52514-1.2 | Taylor Sauter | Secured Storage | 09/30/22 10:47 | Return to Storage |
| JD52514-2.1 | Secured Storage | Taylor Sauter | 09/30/22 11:39 | Retrieve from Storage |
| JD52514-2.1 | Taylor Sauter | GCMS1X | 09/30/22 11:39 | Load on Instrument |
| JD52514-2.1 | GCMS1X | Edward Durner | 10/04/22 14:22 | Unload from Instrument |
| JD52514-2.1 | Edward Durner | Secured Storage | 10/04/22 14:22 | Return to Storage |
| JD52514-2.2 | Secured Storage | Taylor Sauter | 09/29/22 15:31 | Retrieve from Storage |
| JD52514-2.2 | Taylor Sauter | GCMS4D | 09/29/22 15:31 | Load on Instrument |
| JD52514-2.2 | GCMS4D | Taylor Sauter | 09/30/22 10:47 | Unload from Instrument |
| JD52514-2.2 | Taylor Sauter | Secured Storage | 09/30/22 10:47 | Return to Storage |
| JD52514-3.1 | Secured Storage | Taylor Sauter | 09/29/22 15:31 | Retrieve from Storage |
| JD52514-3.1 | Taylor Sauter | GCMS4D | 09/29/22 15:31 | Load on Instrument |
| JD52514-3.1 | GCMS4D | Taylor Sauter | 09/30/22 10:47 | Unload from Instrument |
| JD52514-3.1 | Taylor Sauter | Secured Storage | 09/30/22 10:47 | Return to Storage |
| JD52514-3.2 | Secured Storage | Taylor Sauter | 09/30/22 11:39 | Retrieve from Storage |
| JD52514-3.2 | Taylor Sauter | GCMS1X | 09/30/22 11:39 | Load on Instrument |
| JD52514-3.2 | GCMS1X | Edward Durner | 10/04/22 14:22 | Unload from Instrument |
| JD52514-3.2 | Edward Durner | Secured Storage | 10/04/22 14:22 | Return to Storage |
| JD52514-4.1 | Secured Storage | Taylor Sauter | 09/29/22 15:31 | Retrieve from Storage |
| JD52514-4.1 | Taylor Sauter | GCMS4D | 09/29/22 15:31 | Load on Instrument |
| JD52514-4.1 | GCMS4D | Taylor Sauter | 09/30/22 10:47 | Unload from Instrument |
| JD52514-4.1 | Taylor Sauter | Secured Storage | 09/30/22 10:47 | Return to Storage |
| JD52514-4.2 | Secured Storage | Taylor Sauter | 09/30/22 11:39 | Retrieve from Storage |
| JD52514-4.2 | Taylor Sauter | GCMS1X | 09/30/22 11:39 | Load on Instrument |
| JD52514-4.2 | GCMS1X | Edward Durner | 10/04/22 14:22 | Unload from Instrument |
| JD52514-4.2 | Edward Durner | Secured Storage | 10/04/22 14:22 | Return to Storage |
| JD52514-5.1 | Secured Storage | Taylor Sauter | 09/29/22 15:31 | Retrieve from Storage |
| JD52514-5.1 | Taylor Sauter | GCMS4D | 09/29/22 15:31 | Load on Instrument |
| JD52514-5.1 | GCMS4D | Taylor Sauter | 09/30/22 10:47 | Unload from Instrument |
| JD52514-5.1 | Taylor Sauter | Secured Storage | 09/30/22 10:47 | Return to Storage |

# SGS Internal Chain of Custody



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Received:** 09/24/22



| Sample.Bottle Number | Transfer FROM | Transfer TO | Date/Time | Reason |
|---|---|---|---|---|
| JD52514-5.2 | Secured Storage | Taylor Sauter | 09/30/22 11:39 | Retrieve from Storage |
| JD52514-5.2 | Taylor Sauter | GCMS1X | 09/30/22 11:39 | Load on Instrument |
| JD52514-5.2 | GCMS1X | Edward Durner | 10/04/22 14:22 | Unload from Instrument |
| JD52514-5.2 | Edward Durner | Secured Storage | 10/04/22 14:22 | Return to Storage |
| JD52514-6.1 | Secured Storage | Taylor Sauter | 09/29/22 15:31 | Retrieve from Storage |
| JD52514-6.1 | Taylor Sauter | GCMS4D | 09/29/22 15:31 | Load on Instrument |
| JD52514-6.1 | GCMS4D | Taylor Sauter | 09/30/22 10:47 | Unload from Instrument |
| JD52514-6.1 | Taylor Sauter | Secured Storage | 09/30/22 10:47 | Return to Storage |
| JD52514-6.2 | Secured Storage | Taylor Sauter | 09/30/22 11:39 | Retrieve from Storage |
| JD52514-6.2 | Taylor Sauter | GCMS1X | 09/30/22 11:39 | Load on Instrument |
| JD52514-6.2 | GCMS1X | Edward Durner | 10/04/22 14:22 | Unload from Instrument |
| JD52514-6.2 | Edward Durner | Secured Storage | 10/04/22 14:22 | Return to Storage |
| JD52514-7.1 | Secured Storage | Taylor Sauter | 09/30/22 11:39 | Retrieve from Storage |
| JD52514-7.1 | Taylor Sauter | GCMS1X | 09/30/22 11:39 | Load on Instrument |
| JD52514-7.1 | GCMS1X | Edward Durner | 10/04/22 14:22 | Unload from Instrument |
| JD52514-7.1 | Edward Durner | Secured Storage | 10/04/22 14:22 | Return to Storage |
| JD52514-7.2 | Secured Storage | Taylor Sauter | 09/29/22 15:31 | Retrieve from Storage |
| JD52514-7.2 | Taylor Sauter | GCMS4D | 09/29/22 15:31 | Load on Instrument |
| JD52514-7.2 | GCMS4D | Taylor Sauter | 09/30/22 10:47 | Unload from Instrument |
| JD52514-7.2 | Taylor Sauter | Secured Storage | 09/30/22 10:47 | Return to Storage |
| JD52514-8.1 | Secured Storage | Taylor Sauter | 09/30/22 11:39 | Retrieve from Storage |
| JD52514-8.1 | Taylor Sauter | GCMS1X | 09/30/22 11:39 | Load on Instrument |
| JD52514-8.1 | GCMS1X | Edward Durner | 10/04/22 14:22 | Unload from Instrument |
| JD52514-8.1 | Edward Durner | Secured Storage | 10/04/22 14:22 | Return to Storage |
| JD52514-8.2 | Secured Storage | Taylor Sauter | 09/29/22 15:31 | Retrieve from Storage |
| JD52514-8.2 | Taylor Sauter | GCMS4D | 09/29/22 15:31 | Load on Instrument |
| JD52514-8.2 | GCMS4D | Taylor Sauter | 09/30/22 10:47 | Unload from Instrument |
| JD52514-8.2 | Taylor Sauter | Secured Storage | 09/30/22 10:47 | Return to Storage |
| JD52514-9.1 | Secured Storage | Taylor Sauter | 09/30/22 11:39 | Retrieve from Storage |
| JD52514-9.1 | Taylor Sauter | GCMS1X | 09/30/22 11:39 | Load on Instrument |
| JD52514-9.1 | GCMS1X | Edward Durner | 10/04/22 14:22 | Unload from Instrument |
| JD52514-9.1 | Edward Durner | Secured Storage | 10/04/22 14:22 | Return to Storage |
| JD52514-9.2 | Secured Storage | Taylor Sauter | 09/29/22 15:31 | Retrieve from Storage |
| JD52514-9.2 | Taylor Sauter | GCMS4D | 09/29/22 15:31 | Load on Instrument |
| JD52514-9.2 | GCMS4D | Taylor Sauter | 09/30/22 10:47 | Unload from Instrument |

# SGS Internal Chain of Custody



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Received:** 09/24/22

| Sample.Bottle Number | Transfer FROM | Transfer TO | Date/Time | Reason |
|---|---|---|---|---|
| JD52514-9.2 | Taylor Sauter | Secured Storage | 09/30/22 10:47 | Return to Storage |
| JD52514-10.1 | Secured Storage | Taylor Sauter | 09/29/22 15:31 | Retrieve from Storage |
| JD52514-10.1 | Taylor Sauter | GCMS4D | 09/29/22 15:31 | Load on Instrument |
| JD52514-10.1 | GCMS4D | Taylor Sauter | 09/30/22 10:47 | Unload from Instrument |
| JD52514-10.1 | Taylor Sauter | Secured Storage | 09/30/22 10:47 | Return to Storage |
| JD52514-10.2 | Secured Storage | Nicole Hornlien | 10/03/22 17:07 | Retrieve from Storage |
| JD52514-10.2 | Nicole Hornlien | GCMSL | 10/03/22 17:07 | Load on Instrument |
| JD52514-10.2 | GCMSL | Nicole Hornlien | 10/04/22 15:54 | Unload from Instrument |
| JD52514-10.2 | Nicole Hornlien | Secured Storage | 10/04/22 15:54 | Return to Storage |
| JD52514-11.1 | Secured Storage | Nicole Hornlien | 10/03/22 17:07 | Retrieve from Storage |
| JD52514-11.1 | Nicole Hornlien | GCMSL | 10/03/22 17:07 | Load on Instrument |
| JD52514-11.1 | GCMSL | Nicole Hornlien | 10/04/22 15:54 | Unload from Instrument |
| JD52514-11.1 | Nicole Hornlien | Secured Storage | 10/04/22 15:54 | Return to Storage |
| JD52514-11.2 | Secured Storage | Taylor Sauter | 09/29/22 15:31 | Retrieve from Storage |
| JD52514-11.2 | Taylor Sauter | GCMS4D | 09/29/22 15:31 | Load on Instrument |
| JD52514-11.2 | GCMS4D | Taylor Sauter | 09/30/22 10:47 | Unload from Instrument |
| JD52514-11.2 | Taylor Sauter | Secured Storage | 09/30/22 10:47 | Return to Storage |
| JD52514-11.2 | Secured Storage | Nicole Hornlien | 10/04/22 15:57 | Retrieve from Storage |
| JD52514-11.2 | Nicole Hornlien | GCMSL | 10/04/22 15:57 | Load on Instrument |
| JD52514-11.2 | GCMSL | Nicole Hornlien | 10/05/22 08:43 | Unload from Instrument |
| JD52514-11.2 | Nicole Hornlien | Secured Storage | 10/05/22 08:43 | Return to Storage |
| JD52514-12.1 | Secured Storage | Taylor Sauter | 09/29/22 15:31 | Retrieve from Storage |
| JD52514-12.1 | Taylor Sauter | GCMS4D | 09/29/22 15:31 | Load on Instrument |
| JD52514-12.1 | GCMS4D | Taylor Sauter | 09/30/22 10:47 | Unload from Instrument |
| JD52514-12.1 | Taylor Sauter | Secured Storage | 09/30/22 10:47 | Return to Storage |
| JD52514-12.2 | Secured Storage | Nicole Hornlien | 09/30/22 16:21 | Retrieve from Storage |
| JD52514-12.2 | Nicole Hornlien | GCMS2A | 09/30/22 16:21 | Load on Instrument |
| JD52514-12.2 | GCMS2A | Kyle McKeon | 10/04/22 16:33 | Unload from Instrument |
| JD52514-12.2 | Kyle McKeon | Secured Storage | 10/04/22 16:33 | Return to Storage |
| JD52514-13.1 | Secured Storage | Taylor Sauter | 09/29/22 15:31 | Retrieve from Storage |
| JD52514-13.1 | Taylor Sauter | GCMS4D | 09/29/22 15:31 | Load on Instrument |
| JD52514-13.1 | GCMS4D | Taylor Sauter | 09/30/22 10:47 | Unload from Instrument |
| JD52514-13.1 | Taylor Sauter | Secured Storage | 09/30/22 10:47 | Return to Storage |

## MS Volatiles



### QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

# Method Blank Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V4D5406-MB | 4D121700.D | 1 | 09/29/22 | TS | n/a | n/a | V4D5406 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-1, JD52514-2, JD52514-3, JD52514-4, JD52514-5, JD52514-6, JD52514-9, JD52514-13

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |

# Method Blank Summary

**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V4D5406-MB | 4D121700.D | 1 | 09/29/22 | TS | n/a | n/a | V4D5406 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-1, JD52514-2, JD52514-3, JD52514-4, JD52514-5, JD52514-6, JD52514-9, JD52514-13

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 105% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Method Blank Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2A9583-MB | 2A220442.D | 1 | 09/30/22 | NH | n/a | n/a | V2A9583 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-12

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |

# Method Blank Summary

**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2A9583-MB | 2A220442.D | 1 | 09/30/22 | NH | n/a | n/a | V2A9583 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-12

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 83% | 80-120% |
| 2037-26-5 | Toluene-D8 | 92% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 110% | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | system artifact | 3.62 | 7.5 | ug/l | J |
| | Total TIC, Volatile | | 0 | ug/l | |

# Method Blank Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1X8639-MB | 1X200647.D | 1 | 09/30/22 | TS | n/a | n/a | V1X8639 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-1, JD52514-2, JD52514-3, JD52514-4, JD52514-5, JD52514-6, JD52514-7, JD52514-8, JD52514-9

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |

# Method Blank Summary

**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1X8639-MB | 1X200647.D | 1 | 09/30/22 | TS | n/a | n/a | V1X8639 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-1, JD52514-2, JD52514-3, JD52514-4, JD52514-5, JD52514-6, JD52514-7, JD52514-8, JD52514-9

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 95% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Method Blank Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VL10517-MB | L347772.D | 1 | 10/03/22 | NH | n/a | n/a | VL10517 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-10, JD52514-11

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |

# Method Blank Summary

**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VL10517-MB | L347772.D | 1 | 10/03/22 | NH | n/a | n/a | VL10517 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-10, JD52514-11

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96% | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Blank Spike Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V4D5406-BS | 4D121698.D | 1 | 09/29/22 | TS | n/a | n/a | V4D5406 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-1, JD52514-2, JD52514-3, JD52514-4, JD52514-5, JD52514-6, JD52514-9, JD52514-13

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 200 | 317 | 159 | 27-175 |
| 71-43-2 | Benzene | 50 | 46.4 | 93 | 80-115 |
| 75-27-4 | Bromodichloromethane | 50 | 47.7 | 95 | 82-119 |
| 75-25-2 | Bromoform | 50 | 50.4 | 101 | 77-135 |
| 74-83-9 | Bromomethane | 50 | 37.5 | 75 | 40-162 |
| 78-93-3 | 2-Butanone (MEK) | 200 | 267 | 134 | 61-150 |
| 75-15-0 | Carbon disulfide | 50 | 48.9 | 98 | 64-130 |
| 56-23-5 | Carbon tetrachloride | 50 | 49.7 | 99 | 75-127 |
| 108-90-7 | Chlorobenzene | 50 | 47.8 | 96 | 80-115 |
| 75-00-3 | Chloroethane | 50 | 45.5 | 91 | 56-144 |
| 67-66-3 | Chloroform | 50 | 46.5 | 93 | 75-116 |
| 74-87-3 | Chloromethane | 50 | 39.1 | 78 | 41-153 |
| 110-82-7 | Cyclohexane | 50 | 41.9 | 84 | 66-129 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 61.5 | 123 | 69-134 |
| 124-48-1 | Dibromochloromethane | 50 | 50.7 | 101 | 81-123 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 53.9 | 108 | 67-138 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 49.0 | 98 | 81-117 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 46.6 | 93 | 81-115 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 44.5 | 89 | 80-114 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 36.8 | 74 | 43-152 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 54.3 | 109 | 75-125 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 46.4 | 93 | 73-117 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 47.1 | 94 | 70-124 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 48.5 | 97 | 80-120 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 47.9 | 96 | 77-121 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 51.8 | 104 | 79-121 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 49.6 | 99 | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 49.5 | 99 | 83-122 |
| 100-41-4 | Ethylbenzene | 50 | 45.7 | 91 | 78-116 |
| 76-13-1 | Freon 113 | 50 | 51.2 | 102 | 68-134 |
| 591-78-6 | 2-Hexanone | 200 | 282 | 141* [a] | 66-136 |
| 98-82-8 | Isopropylbenzene | 50 | 46.7 | 93 | 78-121 |
| 79-20-9 | Methyl Acetate | 50 | 79.0 | 158* [a] | 60-143 |
| 108-87-2 | Methylcyclohexane | 50 | 47.8 | 96 | 71-123 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 52.8 | 106 | 76-123 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 200 | 263 | 132 | 73-134 |

* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V4D5406-BS | 4D121698.D | 1 | 09/29/22 | TS | n/a | n/a | V4D5406 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-1, JD52514-2, JD52514-3, JD52514-4, JD52514-5, JD52514-6, JD52514-9, JD52514-13

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | 50 | 50.7 | 101 | 73-123 |
| 100-42-5 | Styrene | 50 | 48.2 | 96 | 81-125 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 52.1 | 104 | 73-126 |
| 127-18-4 | Tetrachloroethene | 50 | 42.4 | 85 | 73-119 |
| 108-88-3 | Toluene | 50 | 45.3 | 91 | 79-116 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 48.5 | 97 | 68-135 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 49.8 | 100 | 76-124 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 51.6 | 103 | 83-117 |
| 79-01-6 | Trichloroethene | 50 | 50.4 | 101 | 80-118 |
| 75-69-4 | Trichlorofluoromethane | 50 | 44.9 | 90 | 67-134 |
| 75-01-4 | Vinyl chloride | 50 | 38.4 | 77 | 52-146 |
| 1330-20-7 | Xylene (total) | 150 | 140 | 93 | 80-119 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 106% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | 80-120% |
| 2037-26-5 | Toluene-D8 | 98% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | 82-114% |

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2A9583-BS | 2A220440.D | 1 | 09/30/22 | NH | n/a | n/a | V2A9583 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-12

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 200 | 203 | 102 | 27-175 |
| 71-43-2 | Benzene | 50 | 51.3 | 103 | 80-115 |
| 75-27-4 | Bromodichloromethane | 50 | 47.5 | 95 | 82-119 |
| 75-25-2 | Bromoform | 50 | 45.6 | 91 | 77-135 |
| 74-83-9 | Bromomethane | 50 | 54.6 | 109 | 40-162 |
| 78-93-3 | 2-Butanone (MEK) | 200 | 234 | 117 | 61-150 |
| 75-15-0 | Carbon disulfide | 50 | 48.7 | 97 | 64-130 |
| 56-23-5 | Carbon tetrachloride | 50 | 51.7 | 103 | 75-127 |
| 108-90-7 | Chlorobenzene | 50 | 47.1 | 94 | 80-115 |
| 75-00-3 | Chloroethane | 50 | 58.4 | 117 | 56-144 |
| 67-66-3 | Chloroform | 50 | 51.4 | 103 | 75-116 |
| 74-87-3 | Chloromethane | 50 | 43.9 | 88 | 41-153 |
| 110-82-7 | Cyclohexane | 50 | 57.7 | 115 | 66-129 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 39.9 | 80 | 69-134 |
| 124-48-1 | Dibromochloromethane | 50 | 45.2 | 90 | 81-123 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 44.6 | 89 | 67-138 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 43.3 | 87 | 81-117 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 43.6 | 87 | 81-115 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 42.1 | 84 | 80-114 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 44.7 | 89 | 43-152 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 55.3 | 111 | 75-125 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 44.8 | 90 | 73-117 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 49.8 | 100 | 70-124 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 56.4 | 113 | 80-120 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 54.3 | 109 | 77-121 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 50.6 | 101 | 79-121 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 52.3 | 105 | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 46.7 | 93 | 83-122 |
| 100-41-4 | Ethylbenzene | 50 | 45.0 | 90 | 78-116 |
| 76-13-1 | Freon 113 | 50 | 51.4 | 103 | 68-134 |
| 591-78-6 | 2-Hexanone | 200 | 177 | 89 | 66-136 |
| 98-82-8 | Isopropylbenzene | 50 | 43.5 | 87 | 78-121 |
| 79-20-9 | Methyl Acetate | 50 | 50.3 | 101 | 60-143 |
| 108-87-2 | Methylcyclohexane | 50 | 46.7 | 93 | 71-123 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 53.7 | 107 | 76-123 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 200 | 188 | 94 | 73-134 |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2A9583-BS | 2A220440.D | 1 | 09/30/22 | NH | n/a | n/a | V2A9583 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-12

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | 50 | 53.8 | 108 | 73-123 |
| 100-42-5 | Styrene | 50 | 44.4 | 89 | 81-125 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 43.0 | 86 | 73-126 |
| 127-18-4 | Tetrachloroethene | 50 | 45.9 | 92 | 73-119 |
| 108-88-3 | Toluene | 50 | 47.0 | 94 | 79-116 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 44.4 | 89 | 68-135 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 52.9 | 106 | 76-124 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 44.8 | 90 | 83-117 |
| 79-01-6 | Trichloroethene | 50 | 48.7 | 97 | 80-118 |
| 75-69-4 | Trichlorofluoromethane | 50 | 51.8 | 104 | 67-134 |
| 75-01-4 | Vinyl chloride | 50 | 47.6 | 95 | 52-146 |
| 1330-20-7 | Xylene (total) | 150 | 132 | 88 | 80-119 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 107% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 81% | 80-120% |
| 2037-26-5 | Toluene-D8 | 94% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 106% | 82-114% |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1X8639-BS | 1X200645.D | 1 | 09/30/22 | TS | n/a | n/a | V1X8639 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-1, JD52514-2, JD52514-3, JD52514-4, JD52514-5, JD52514-6, JD52514-7, JD52514-8, JD52514-9

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 200 | 172 | 86 | 27-175 |
| 71-43-2 | Benzene | 50 | 44.5 | 89 | 80-115 |
| 75-27-4 | Bromodichloromethane | 50 | 47.1 | 94 | 82-119 |
| 75-25-2 | Bromoform | 50 | 51.7 | 103 | 77-135 |
| 74-83-9 | Bromomethane | 50 | 46.7 | 93 | 40-162 |
| 78-93-3 | 2-Butanone (MEK) | 200 | 191 | 96 | 61-150 |
| 75-15-0 | Carbon disulfide | 50 | 42.9 | 86 | 64-130 |
| 56-23-5 | Carbon tetrachloride | 50 | 44.6 | 89 | 75-127 |
| 108-90-7 | Chlorobenzene | 50 | 46.2 | 92 | 80-115 |
| 75-00-3 | Chloroethane | 50 | 35.7 | 71 | 56-144 |
| 67-66-3 | Chloroform | 50 | 42.5 | 85 | 75-116 |
| 74-87-3 | Chloromethane | 50 | 37.6 | 75 | 41-153 |
| 110-82-7 | Cyclohexane | 50 | 39.8 | 80 | 66-129 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 51.8 | 104 | 69-134 |
| 124-48-1 | Dibromochloromethane | 50 | 49.6 | 99 | 81-123 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 48.8 | 98 | 67-138 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 48.5 | 97 | 81-117 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 47.7 | 95 | 81-115 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 47.1 | 94 | 80-114 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 39.2 | 78 | 43-152 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 43.2 | 86 | 75-125 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 43.2 | 86 | 73-117 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 44.5 | 89 | 70-124 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 43.7 | 87 | 80-120 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 43.9 | 88 | 77-121 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 47.1 | 94 | 79-121 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 49.2 | 98 | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 49.7 | 99 | 83-122 |
| 100-41-4 | Ethylbenzene | 50 | 45.7 | 91 | 78-116 |
| 76-13-1 | Freon 113 | 50 | 44.4 | 89 | 68-134 |
| 591-78-6 | 2-Hexanone | 200 | 197 | 99 | 66-136 |
| 98-82-8 | Isopropylbenzene | 50 | 47.3 | 95 | 78-121 |
| 79-20-9 | Methyl Acetate | 50 | 46.2 | 92 | 60-143 |
| 108-87-2 | Methylcyclohexane | 50 | 47.7 | 95 | 71-123 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 44.6 | 89 | 76-123 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 200 | 204 | 102 | 73-134 |

* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1X8639-BS | 1X200645.D | 1 | 09/30/22 | TS | n/a | n/a | V1X8639 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-1, JD52514-2, JD52514-3, JD52514-4, JD52514-5, JD52514-6, JD52514-7, JD52514-8, JD52514-9

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | 50 | 43.2 | 86 | 73-123 |
| 100-42-5 | Styrene | 50 | 46.6 | 93 | 81-125 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 52.5 | 105 | 73-126 |
| 127-18-4 | Tetrachloroethene | 50 | 48.0 | 96 | 73-119 |
| 108-88-3 | Toluene | 50 | 47.2 | 94 | 79-116 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 49.7 | 99 | 68-135 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 44.1 | 88 | 76-124 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 47.4 | 95 | 83-117 |
| 79-01-6 | Trichloroethene | 50 | 46.0 | 92 | 80-118 |
| 75-69-4 | Trichlorofluoromethane | 50 | 41.8 | 84 | 67-134 |
| 75-01-4 | Vinyl chloride | 50 | 39.6 | 79 | 52-146 |
| 1330-20-7 | Xylene (total) | 150 | 139 | 93 | 80-119 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 94% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96% | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 82-114% |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VL10517-BS | L347770.D | 1 | 10/03/22 | NH | n/a | n/a | VL10517 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-10, JD52514-11

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 200 | 216 | 108 | 27-175 |
| 71-43-2 | Benzene | 50 | 52.8 | 106 | 80-115 |
| 75-27-4 | Bromodichloromethane | 50 | 50.1 | 100 | 82-119 |
| 75-25-2 | Bromoform | 50 | 45.9 | 92 | 77-135 |
| 74-83-9 | Bromomethane | 50 | 48.9 | 98 | 40-162 |
| 78-93-3 | 2-Butanone (MEK) | 200 | 186 | 93 | 61-150 |
| 75-15-0 | Carbon disulfide | 50 | 40.6 | 81 | 64-130 |
| 56-23-5 | Carbon tetrachloride | 50 | 50.6 | 101 | 75-127 |
| 108-90-7 | Chlorobenzene | 50 | 52.0 | 104 | 80-115 |
| 75-00-3 | Chloroethane | 50 | 44.6 | 89 | 56-144 |
| 67-66-3 | Chloroform | 50 | 49.9 | 100 | 75-116 |
| 74-87-3 | Chloromethane | 50 | 52.3 | 105 | 41-153 |
| 110-82-7 | Cyclohexane | 50 | 47.3 | 95 | 66-129 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 48.2 | 96 | 69-134 |
| 124-48-1 | Dibromochloromethane | 50 | 46.7 | 93 | 81-123 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 46.7 | 93 | 67-138 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 45.8 | 92 | 81-117 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 49.8 | 100 | 81-115 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 47.1 | 94 | 80-114 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 54.6 | 109 | 43-152 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 55.1 | 110 | 75-125 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 49.2 | 98 | 73-117 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 49.7 | 99 | 70-124 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 51.6 | 103 | 80-120 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 54.2 | 108 | 77-121 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 57.0 | 114 | 79-121 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 51.9 | 104 | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 46.2 | 92 | 83-122 |
| 100-41-4 | Ethylbenzene | 50 | 50.7 | 101 | 78-116 |
| 76-13-1 | Freon 113 | 50 | 57.8 | 116 | 68-134 |
| 591-78-6 | 2-Hexanone | 200 | 181 | 91 | 66-136 |
| 98-82-8 | Isopropylbenzene | 50 | 49.6 | 99 | 78-121 |
| 79-20-9 | Methyl Acetate | 50 | 44.1 | 88 | 60-143 |
| 108-87-2 | Methylcyclohexane | 50 | 53.5 | 107 | 71-123 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 48.0 | 96 | 76-123 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 200 | 197 | 99 | 73-134 |

* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VL10517-BS | L347770.D | 1 | 10/03/22 | NH | n/a | n/a | VL10517 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-10, JD52514-11

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | 50 | 52.0 | 104 | 73-123 |
| 100-42-5 | Styrene | 50 | 47.5 | 95 | 81-125 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 44.7 | 89 | 73-126 |
| 127-18-4 | Tetrachloroethene | 50 | 54.6 | 109 | 73-119 |
| 108-88-3 | Toluene | 50 | 51.2 | 102 | 79-116 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 54.7 | 109 | 68-135 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 51.7 | 103 | 76-124 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 50.1 | 100 | 83-117 |
| 79-01-6 | Trichloroethene | 50 | 55.8 | 112 | 80-118 |
| 75-69-4 | Trichlorofluoromethane | 50 | 53.6 | 107 | 67-134 |
| 75-01-4 | Vinyl chloride | 50 | 48.2 | 96 | 52-146 |
| 1330-20-7 | Xylene (total) | 150 | 147 | 98 | 80-119 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90% | 80-120% |
| 2037-26-5 | Toluene-D8 | 90% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | 82-114% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52514-2MS | 4D121705.D | 10 | 09/30/22 | TS | n/a | n/a | V4D5406 |
| JD52514-2MSD | 4D121706.D | 10 | 09/30/22 | TS | n/a | n/a | V4D5406 |
| JD52514-2 | 4D121702.D | 10 | 09/29/22 | TS | n/a | n/a | V4D5406 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-1, JD52514-2, JD52514-3, JD52514-4, JD52514-5, JD52514-6, JD52514-9, JD52514-13

| CAS No. | Compound | JD52514-2 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 2000 | 3180 | 159* [a] | 2000 | 3200 | 160* [a] | 1 | 22-134/19 |
| 71-43-2 | Benzene | ND | | 500 | 456 | 91 | 500 | 461 | 92 | 1 | 49-137/12 |
| 75-27-4 | Bromodichloromethane | ND | | 500 | 468 | 94 | 500 | 473 | 95 | 1 | 76-121/12 |
| 75-25-2 | Bromoform | ND | | 500 | 494 | 99 | 500 | 505 | 101 | 2 | 70-133/13 |
| 74-83-9 | Bromomethane | ND | | 500 | 364 | 73 | 500 | 320 | 64 | 13 | 27-164/38 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 2000 | 2690 | 135 | 2000 | 2700 | 135 | 0 | 52-137/17 |
| 75-15-0 | Carbon disulfide | ND | | 500 | 478 | 96 | 500 | 486 | 97 | 2 | 54-136/16 |
| 56-23-5 | Carbon tetrachloride | ND | | 500 | 489 | 98 | 500 | 494 | 99 | 1 | 70-132/13 |
| 108-90-7 | Chlorobenzene | ND | | 500 | 469 | 94 | 500 | 478 | 96 | 2 | 68-123/12 |
| 75-00-3 | Chloroethane | ND | | 500 | 453 | 91 | 500 | 453 | 91 | 0 | 48-152/17 |
| 67-66-3 | Chloroform | ND | | 500 | 461 | 92 | 500 | 462 | 92 | 0 | 68-120/13 |
| 74-87-3 | Chloromethane | ND | | 500 | 381 | 76 | 500 | 380 | 76 | 0 | 35-156/18 |
| 110-82-7 | Cyclohexane | ND | | 500 | 414 | 83 | 500 | 422 | 84 | 2 | 53-146/14 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 500 | 629 | 126 | 500 | 626 | 125 | 0 | 63-134/16 |
| 124-48-1 | Dibromochloromethane | ND | | 500 | 502 | 100 | 500 | 507 | 101 | 1 | 75-122/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 500 | 531 | 106 | 500 | 539 | 108 | 1 | 63-134/12 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 500 | 484 | 97 | 500 | 487 | 97 | 1 | 74-119/12 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 500 | 461 | 92 | 500 | 466 | 93 | 1 | 75-117/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 500 | 440 | 88 | 500 | 445 | 89 | 1 | 72-117/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 500 | 413 | 83 | 500 | 335 | 67 | 21* [a] | 34-163/16 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 500 | 538 | 108 | 500 | 544 | 109 | 1 | 68-129/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 500 | 460 | 92 | 500 | 460 | 92 | 0 | 66-120/13 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 500 | 457 | 91 | 500 | 466 | 93 | 2 | 59-133/15 |
| 156-59-2 | cis-1,2-Dichloroethene | 403 | | 500 | 857 | 91 | 500 | 856 | 91 | 0 | 52-140/12 |
| 156-60-5 | trans-1,2-Dichloroethene | 5.6 | J | 500 | 473 | 93 | 500 | 480 | 95 | 1 | 70-125/13 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 500 | 510 | 102 | 500 | 517 | 103 | 1 | 73-124/12 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 500 | 490 | 98 | 500 | 492 | 98 | 0 | 75-125/13 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 500 | 477 | 95 | 500 | 481 | 96 | 1 | 75-122/12 |
| 100-41-4 | Ethylbenzene | ND | | 500 | 451 | 90 | 500 | 458 | 92 | 2 | 37-144/12 |
| 76-13-1 | Freon 113 | ND | | 500 | 501 | 100 | 500 | 509 | 102 | 2 | 61-142/14 |
| 591-78-6 | 2-Hexanone | ND | | 2000 | 2820 | 141* [b] | 2000 | 2820 | 141* [b] | 0 | 56-132/16 |
| 98-82-8 | Isopropylbenzene | ND | | 500 | 458 | 92 | 500 | 468 | 94 | 2 | 71-126/13 |
| 79-20-9 | Methyl Acetate | ND | | 500 | 776 | 155* [b] | 500 | 771 | 154* [b] | 1 | 51-139/18 |
| 108-87-2 | Methylcyclohexane | ND | | 500 | 461 | 92 | 500 | 469 | 94 | 2 | 59-137/16 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 500 | 518 | 104 | 500 | 522 | 104 | 1 | 66-124/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 2000 | 2640 | 132 | 2000 | 2630 | 132 | 0 | 65-135/14 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52514-2MS | 4D121705.D | 10 | 09/30/22 | TS | n/a | n/a | V4D5406 |
| JD52514-2MSD | 4D121706.D | 10 | 09/30/22 | TS | n/a | n/a | V4D5406 |
| JD52514-2 | 4D121702.D | 10 | 09/29/22 | TS | n/a | n/a | V4D5406 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-1, JD52514-2, JD52514-3, JD52514-4, JD52514-5, JD52514-6, JD52514-9, JD52514-13

| CAS No. | Compound | JD52514-2 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | | 500 | 502 | 100 | 500 | 504 | 101 | 0 | 66-125/14 |
| 100-42-5 | Styrene | ND | | 500 | 475 | 95 | 500 | 479 | 96 | 1 | 71-133/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 500 | 521 | 104 | 500 | 530 | 106 | 2 | 68-127/14 |
| 127-18-4 | Tetrachloroethene | ND | | 500 | 416 | 83 | 500 | 421 | 84 | 1 | 58-132/13 |
| 108-88-3 | Toluene | ND | | 500 | 446 | 89 | 500 | 453 | 91 | 2 | 46-139/12 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 500 | 464 | 93 | 500 | 470 | 94 | 1 | 61-137/16 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 500 | 489 | 98 | 500 | 494 | 99 | 1 | 67-132/13 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 500 | 501 | 100 | 500 | 509 | 102 | 2 | 75-120/12 |
| 79-01-6 | Trichloroethene | 107 | | 500 | 597 | 98 | 500 | 601 | 99 | 1 | 56-136/12 |
| 75-69-4 | Trichlorofluoromethane | ND | | 500 | 447 | 89 | 500 | 450 | 90 | 1 | 61-145/16 |
| 75-01-4 | Vinyl chloride | 13.7 | | 500 | 387 | 75 | 500 | 391 | 75 | 1 | 41-156/16 |
| 1330-20-7 | Xylene (total) | ND | | 1500 | 1380 | 92 | 1500 | 1390 | 93 | 1 | 38-147/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JD52514-2 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 107% | 106% | 105% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | 92% | 98% | 80-120% |
| 2037-26-5 | Toluene-D8 | 98% | 98% | 99% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | 97% | 98% | 82-114% |

(a) Outside control limits due to matrix interference.
(b) Outside in house control limits.

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52514-8MS | 1X200658.D | 10 | 09/30/22 | TS | n/a | n/a | V1X8639 |
| JD52514-8MSD | 1X200659.D | 10 | 09/30/22 | TS | n/a | n/a | V1X8639 |
| JD52514-8 [a] | 1X200649.D | 10 | 09/30/22 | TS | n/a | n/a | V1X8639 |
| JD52514-8 | 1X200648.D | 100 | 09/30/22 | TS | n/a | n/a | V1X8639 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-1, JD52514-2, JD52514-3, JD52514-4, JD52514-5, JD52514-6, JD52514-7, JD52514-8, JD52514-9

| CAS No. | Compound | JD52514-8 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 2000 | 1670 | 84 | 2000 | 1710 | 86 | 2 | 22-134/19 |
| 71-43-2 | Benzene | ND | | 500 | 427 | 85 | 500 | 448 | 90 | 5 | 49-137/12 |
| 75-27-4 | Bromodichloromethane | ND | | 500 | 461 | 92 | 500 | 488 | 98 | 6 | 76-121/12 |
| 75-25-2 | Bromoform | ND | | 500 | 503 | 101 | 500 | 528 | 106 | 5 | 70-133/13 |
| 74-83-9 | Bromomethane | ND | | 500 | 463 | 93 | 500 | 546 | 109 | 16 | 27-164/38 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 2000 | 2050 | 103 | 2000 | 2100 | 105 | 2 | 52-137/17 |
| 75-15-0 | Carbon disulfide | ND | | 500 | 404 | 81 | 500 | 419 | 84 | 4 | 54-136/16 |
| 56-23-5 | Carbon tetrachloride | ND | | 500 | 417 | 83 | 500 | 430 | 86 | 3 | 70-132/13 |
| 108-90-7 | Chlorobenzene | ND | | 500 | 450 | 90 | 500 | 474 | 95 | 5 | 68-123/12 |
| 75-00-3 | Chloroethane | ND | | 500 | 373 | 75 | 500 | 376 | 75 | 1 | 48-152/17 |
| 67-66-3 | Chloroform | ND | | 500 | 410 | 82 | 500 | 429 | 86 | 5 | 68-120/13 |
| 74-87-3 | Chloromethane | ND | | 500 | 409 | 82 | 500 | 421 | 84 | 3 | 35-156/18 |
| 110-82-7 | Cyclohexane | ND | | 500 | 405 | 81 | 500 | 412 | 82 | 2 | 53-146/14 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 500 | 514 | 103 | 500 | 523 | 105 | 2 | 63-134/16 |
| 124-48-1 | Dibromochloromethane | ND | | 500 | 483 | 97 | 500 | 508 | 102 | 5 | 75-122/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 500 | 478 | 96 | 500 | 501 | 100 | 5 | 63-134/12 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 500 | 470 | 94 | 500 | 492 | 98 | 5 | 74-119/12 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 500 | 461 | 92 | 500 | 483 | 97 | 5 | 75-117/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 500 | 456 | 91 | 500 | 476 | 95 | 4 | 72-117/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 500 | 421 | 84 | 500 | 430 | 86 | 2 | 34-163/16 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 500 | 422 | 84 | 500 | 439 | 88 | 4 | 68-129/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 500 | 423 | 85 | 500 | 444 | 89 | 5 | 66-120/13 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 500 | 422 | 84 | 500 | 430 | 86 | 2 | 59-133/15 |
| 156-59-2 | cis-1,2-Dichloroethene | 3080 [c] | | 500 | 3520 | 26* [b] | 500 | 3620 | 46* [b] | 3 | 52-140/12 |
| 156-60-5 | trans-1,2-Dichloroethene | 15.8 | | 500 | 434 | 84 | 500 | 453 | 87 | 4 | 70-125/13 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 500 | 463 | 93 | 500 | 475 | 95 | 3 | 73-124/12 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 500 | 483 | 97 | 500 | 515 | 103 | 6 | 75-125/13 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 500 | 481 | 96 | 500 | 516 | 103 | 7 | 75-122/12 |
| 100-41-4 | Ethylbenzene | ND | | 500 | 437 | 87 | 500 | 456 | 91 | 4 | 37-144/12 |
| 76-13-1 | Freon 113 | ND | | 500 | 418 | 84 | 500 | 423 | 85 | 1 | 61-142/14 |
| 591-78-6 | 2-Hexanone | ND | | 2000 | 1970 | 99 | 2000 | 2020 | 101 | 3 | 56-132/16 |
| 98-82-8 | Isopropylbenzene | ND | | 500 | 444 | 89 | 500 | 466 | 93 | 5 | 71-126/13 |
| 79-20-9 | Methyl Acetate | ND | | 500 | 440 | 88 | 500 | 453 | 91 | 3 | 51-139/18 |
| 108-87-2 | Methylcyclohexane | ND | | 500 | 441 | 88 | 500 | 451 | 90 | 2 | 59-137/16 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 500 | 434 | 87 | 500 | 456 | 91 | 5 | 66-124/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 2000 | 2020 | 101 | 2000 | 2090 | 105 | 3 | 65-135/14 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52514-8MS | 1X200658.D | 10 | 09/30/22 | TS | n/a | n/a | V1X8639 |
| JD52514-8MSD | 1X200659.D | 10 | 09/30/22 | TS | n/a | n/a | V1X8639 |
| JD52514-8 [a] | 1X200649.D | 10 | 09/30/22 | TS | n/a | n/a | V1X8639 |
| JD52514-8 | 1X200648.D | 100 | 09/30/22 | TS | n/a | n/a | V1X8639 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-1, JD52514-2, JD52514-3, JD52514-4, JD52514-5, JD52514-6, JD52514-7, JD52514-8, JD52514-9

| CAS No. | Compound | JD52514-8 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | | 500 | 425 | 85 | 500 | 448 | 90 | 5 | 66-125/14 |
| 100-42-5 | Styrene | ND | | 500 | 452 | 90 | 500 | 475 | 95 | 5 | 71-133/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 500 | 509 | 102 | 500 | 531 | 106 | 4 | 68-127/14 |
| 127-18-4 | Tetrachloroethene | ND | | 500 | 449 | 90 | 500 | 469 | 94 | 4 | 58-132/13 |
| 108-88-3 | Toluene | ND | | 500 | 451 | 90 | 500 | 472 | 94 | 5 | 46-139/12 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 500 | 480 | 96 | 500 | 502 | 100 | 4 | 61-137/16 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 500 | 415 | 83 | 500 | 426 | 85 | 3 | 67-132/13 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 500 | 467 | 93 | 500 | 482 | 96 | 3 | 75-120/12 |
| 79-01-6 | Trichloroethene | 296 | | 500 | 712 | 83 | 500 | 735 | 88 | 3 | 56-136/12 |
| 75-69-4 | Trichlorofluoromethane | ND | | 500 | 423 | 85 | 500 | 431 | 86 | 2 | 61-145/16 |
| 75-01-4 | Vinyl chloride | 48.5 | | 500 | 459 | 82 | 500 | 465 | 83 | 1 | 41-156/16 |
| 1330-20-7 | Xylene (total) | ND | | 1500 | 1330 | 89 | 1500 | 1390 | 93 | 4 | 38-147/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JD52514-8 | JD52514-8 | Limits |
|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 94% | 94% | 96% | 96% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | 95% | 98% | 98% | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | 99% | 100% | 100% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 98% | 101% | 101% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Result is from Run #2.

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52514-12MS | 2A220451.D | 5 | 09/30/22 | NH | n/a | n/a | V2A9583 |
| JD52514-12MSD | 2A220452.D | 5 | 09/30/22 | NH | n/a | n/a | V2A9583 |
| JD52514-12 [a] | 2A220447.D | 5 | 09/30/22 | NH | n/a | n/a | V2A9583 |
| JD52514-12 | 2A220449.D | 50 | 09/30/22 | NH | n/a | n/a | V2A9583 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-12

| CAS No. | Compound | JD52514-12 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 1000 | 900 | 90 | 1000 | 877 | 88 | 3 | 22-134/19 |
| 71-43-2 | Benzene | ND | | 250 | 264 | 106 | 250 | 264 | 106 | 0 | 49-137/12 |
| 75-27-4 | Bromodichloromethane | ND | | 250 | 242 | 97 | 250 | 242 | 97 | 0 | 76-121/12 |
| 75-25-2 | Bromoform | ND | | 250 | 220 | 88 | 250 | 221 | 88 | 0 | 70-133/13 |
| 74-83-9 | Bromomethane | ND | | 250 | 258 | 103 | 250 | 260 | 104 | 1 | 27-164/38 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 1000 | 1070 | 107 | 1000 | 1100 | 110 | 3 | 52-137/17 |
| 75-15-0 | Carbon disulfide | ND | | 250 | 253 | 101 | 250 | 252 | 101 | 0 | 54-136/16 |
| 56-23-5 | Carbon tetrachloride | ND | | 250 | 271 | 108 | 250 | 274 | 110 | 1 | 70-132/13 |
| 108-90-7 | Chlorobenzene | ND | | 250 | 241 | 96 | 250 | 242 | 97 | 0 | 68-123/12 |
| 75-00-3 | Chloroethane | ND | | 250 | 286 | 114 | 250 | 289 | 116 | 1 | 48-152/17 |
| 67-66-3 | Chloroform | 3.7 | J | 250 | 272 | 107 | 250 | 274 | 108 | 1 | 68-120/13 |
| 74-87-3 | Chloromethane | ND | | 250 | 211 | 84 | 250 | 210 | 84 | 0 | 35-156/18 |
| 110-82-7 | Cyclohexane | ND | | 250 | 285 | 114 | 250 | 289 | 116 | 1 | 53-146/14 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 250 | 199 | 80 | 250 | 195 | 78 | 2 | 63-134/16 |
| 124-48-1 | Dibromochloromethane | ND | | 250 | 221 | 88 | 250 | 222 | 89 | 0 | 75-122/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 250 | 221 | 88 | 250 | 222 | 89 | 0 | 63-134/12 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 250 | 219 | 88 | 250 | 217 | 87 | 1 | 74-119/12 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 250 | 221 | 88 | 250 | 219 | 88 | 1 | 75-117/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 250 | 212 | 85 | 250 | 211 | 84 | 0 | 72-117/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 250 | 237 | 95 | 250 | 241 | 96 | 2 | 34-163/16 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 250 | 289 | 116 | 250 | 287 | 115 | 1 | 68-129/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 250 | 223 | 89 | 250 | 223 | 89 | 0 | 66-120/13 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 250 | 259 | 104 | 250 | 266 | 106 | 3 | 59-133/15 |
| 156-59-2 | cis-1,2-Dichloroethene | 2030 [c] | | 250 | 1980 | -4* [b] | 250 | 1980 | -4* [b] | 0 | 52-140/12 |
| 156-60-5 | trans-1,2-Dichloroethene | 4.7 | J | 250 | 289 | 114 | 250 | 286 | 113 | 1 | 70-125/13 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 250 | 258 | 103 | 250 | 257 | 103 | 0 | 73-124/12 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 250 | 264 | 106 | 250 | 266 | 106 | 1 | 75-125/13 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 250 | 232 | 93 | 250 | 233 | 93 | 0 | 75-122/12 |
| 100-41-4 | Ethylbenzene | ND | | 250 | 230 | 92 | 250 | 231 | 92 | 0 | 37-144/12 |
| 76-13-1 | Freon 113 | ND | | 250 | 278 | 111 | 250 | 281 | 112 | 1 | 61-142/14 |
| 591-78-6 | 2-Hexanone | ND | | 1000 | 875 | 88 | 1000 | 888 | 89 | 1 | 56-132/16 |
| 98-82-8 | Isopropylbenzene | ND | | 250 | 222 | 89 | 250 | 223 | 89 | 0 | 71-126/13 |
| 79-20-9 | Methyl Acetate | ND | | 250 | 247 | 99 | 250 | 240 | 96 | 3 | 51-139/18 |
| 108-87-2 | Methylcyclohexane | ND | | 250 | 251 | 100 | 250 | 249 | 100 | 1 | 59-137/16 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 250 | 278 | 111 | 250 | 278 | 111 | 0 | 66-124/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 1000 | 942 | 94 | 1000 | 949 | 95 | 1 | 65-135/14 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52514-12MS | 2A220451.D | 5 | 09/30/22 | NH | n/a | n/a | V2A9583 |
| JD52514-12MSD | 2A220452.D | 5 | 09/30/22 | NH | n/a | n/a | V2A9583 |
| JD52514-12 [a] | 2A220447.D | 5 | 09/30/22 | NH | n/a | n/a | V2A9583 |
| JD52514-12 | 2A220449.D | 50 | 09/30/22 | NH | n/a | n/a | V2A9583 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-12

| CAS No. | Compound | JD52514-12 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | | 250 | 280 | 112 | 250 | 280 | 112 | 0 | 66-125/14 |
| 100-42-5 | Styrene | ND | | 250 | 223 | 89 | 250 | 224 | 90 | 0 | 71-133/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 250 | 208 | 83 | 250 | 207 | 83 | 0 | 68-127/14 |
| 127-18-4 | Tetrachloroethene | ND | | 250 | 236 | 94 | 250 | 237 | 95 | 0 | 58-132/13 |
| 108-88-3 | Toluene | ND | | 250 | 239 | 96 | 250 | 241 | 96 | 1 | 46-139/12 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 250 | 229 | 92 | 250 | 227 | 91 | 1 | 61-137/16 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 250 | 278 | 111 | 250 | 281 | 112 | 1 | 67-132/13 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 250 | 226 | 90 | 250 | 226 | 90 | 0 | 75-120/12 |
| 79-01-6 | Trichloroethene | 68.6 | | 250 | 307 | 95 | 250 | 306 | 95 | 0 | 56-136/12 |
| 75-69-4 | Trichlorofluoromethane | ND | | 250 | 251 | 100 | 250 | 255 | 102 | 2 | 61-145/16 |
| 75-01-4 | Vinyl chloride | 44.5 | | 250 | 259 | 86 | 250 | 264 | 88 | 2 | 41-156/16 |
| 1330-20-7 | Xylene (total) | ND | | 750 | 672 | 90 | 750 | 676 | 90 | 1 | 38-147/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JD52514-12 | JD52514-12 | Limits |
|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 109% | 109% | 109% | 109% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 79%* [d] | 79%* [d] | 82% | 83% | 80-120% |
| 2037-26-5 | Toluene-D8 | 93% | 94% | 92% | 92% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | 107% | 109% | 109% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Result is from Run #2.
(d) Outside control limits due to matrix interference.

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52644-1MS [a] | L347783.D | 5 | 10/03/22 | NH | n/a | n/a | VL10517 |
| JD52644-1MSD [a] | L347784.D | 5 | 10/03/22 | NH | n/a | n/a | VL10517 |
| JD52644-1 [b] | L347777.D | 5 | 10/03/22 | NH | n/a | n/a | VL10517 |
| JD52644-1 [c] | L347785.D | 25 | 10/03/22 | NH | n/a | n/a | VL10517 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-10, JD52514-11

| CAS No. | Compound | JD52644-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 1000 | 1860 | 186* [d] | 1000 | 1770 | 177* [d] | 5 | 22-134/19 |
| 71-43-2 | Benzene | ND | | 250 | 273 | 109 | 250 | 260 | 104 | 5 | 49-137/12 |
| 75-27-4 | Bromodichloromethane | ND | | 250 | 261 | 104 | 250 | 240 | 96 | 8 | 76-121/12 |
| 75-25-2 | Bromoform | ND | | 250 | 233 | 93 | 250 | 228 | 91 | 2 | 70-133/13 |
| 74-83-9 | Bromomethane | ND | | 250 | 198 | 79 | 250 | 207 | 83 | 4 | 27-164/38 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 1000 | 1230 | 123 | 1000 | 1210 | 121 | 2 | 52-137/17 |
| 75-15-0 | Carbon disulfide | ND | | 250 | 223 | 89 | 250 | 210 | 84 | 6 | 54-136/16 |
| 56-23-5 | Carbon tetrachloride | ND | | 250 | 262 | 105 | 250 | 251 | 100 | 4 | 70-132/13 |
| 108-90-7 | Chlorobenzene | ND | | 250 | 268 | 107 | 250 | 260 | 104 | 3 | 68-123/12 |
| 75-00-3 | Chloroethane | 212 | | 250 | 386 | 70 | 250 | 341 | 52 | 12 | 48-152/17 |
| 67-66-3 | Chloroform | ND | | 250 | 270 | 108 | 250 | 250 | 100 | 8 | 68-120/13 |
| 74-87-3 | Chloromethane | ND | | 250 | 248 | 99 | 250 | 225 | 90 | 10 | 35-156/18 |
| 110-82-7 | Cyclohexane | ND | | 250 | 246 | 98 | 250 | 216 | 86 | 13 | 53-146/14 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 250 | 252 | 101 | 250 | 249 | 100 | 1 | 63-134/16 |
| 124-48-1 | Dibromochloromethane | ND | | 250 | 239 | 96 | 250 | 231 | 92 | 3 | 75-122/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 250 | 249 | 100 | 250 | 239 | 96 | 4 | 63-134/12 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 250 | 255 | 102 | 250 | 246 | 98 | 4 | 74-119/12 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 250 | 275 | 110 | 250 | 259 | 104 | 6 | 75-117/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 250 | 256 | 102 | 250 | 248 | 99 | 3 | 72-117/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 250 | 288 | 115 | 250 | 252 | 101 | 13 | 34-163/16 |
| 75-34-3 | 1,1-Dichloroethane | 1430 [f] | | 250 | 1250 | -28* [e] | 250 | 1200 | -48* [e] | 4 | 68-129/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 250 | 255 | 102 | 250 | 245 | 98 | 4 | 66-120/13 |
| 75-35-4 | 1,1-Dichloroethene | 34.9 | | 250 | 296 | 104 | 250 | 275 | 96 | 7 | 59-133/15 |
| 156-59-2 | cis-1,2-Dichloroethene | 13.4 | | 250 | 291 | 111 | 250 | 268 | 102 | 8 | 52-140/12 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 250 | 287 | 115 | 250 | 272 | 109 | 5 | 70-125/13 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 250 | 295 | 118 | 250 | 288 | 115 | 2 | 73-124/12 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 250 | 264 | 106 | 250 | 255 | 102 | 3 | 75-125/13 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 250 | 227 | 91 | 250 | 219 | 88 | 4 | 75-122/12 |
| 100-41-4 | Ethylbenzene | ND | | 250 | 258 | 103 | 250 | 247 | 99 | 4 | 37-144/12 |
| 76-13-1 | Freon 113 | ND | | 250 | 297 | 119 | 250 | 277 | 111 | 7 | 61-142/14 |
| 591-78-6 | 2-Hexanone | ND | | 1000 | 1060 | 106 | 1000 | 1010 | 101 | 5 | 56-132/16 |
| 98-82-8 | Isopropylbenzene | ND | | 250 | 261 | 104 | 250 | 251 | 100 | 4 | 71-126/13 |
| 79-20-9 | Methyl Acetate | ND | | 250 | 286 | 114 | 250 | 247 | 99 | 15 | 51-139/18 |
| 108-87-2 | Methylcyclohexane | ND | | 250 | 270 | 108 | 250 | 264 | 106 | 2 | 59-137/16 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 250 | 276 | 110 | 250 | 258 | 103 | 7 | 66-124/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 1000 | 1100 | 110 | 1000 | 1060 | 106 | 4 | 65-135/14 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52644-1MS [a] | L347783.D | 5 | 10/03/22 | NH | n/a | n/a | VL10517 |
| JD52644-1MSD [a] | L347784.D | 5 | 10/03/22 | NH | n/a | n/a | VL10517 |
| JD52644-1 [b] | L347777.D | 5 | 10/03/22 | NH | n/a | n/a | VL10517 |
| JD52644-1 [c] | L347785.D | 25 | 10/03/22 | NH | n/a | n/a | VL10517 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52514-10, JD52514-11

| CAS No. | Compound | JD52644-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | | 250 | 285 | 114 | 250 | 264 | 106 | 8 | 66-125/14 |
| 100-42-5 | Styrene | ND | | 250 | 252 | 101 | 250 | 242 | 97 | 4 | 71-133/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 250 | 244 | 98 | 250 | 231 | 92 | 5 | 68-127/14 |
| 127-18-4 | Tetrachloroethene | ND | | 250 | 277 | 111 | 250 | 260 | 104 | 6 | 58-132/13 |
| 108-88-3 | Toluene | ND | | 250 | 261 | 104 | 250 | 253 | 101 | 3 | 46-139/12 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 250 | 302 | 121 | 250 | 288 | 115 | 5 | 61-137/16 |
| 71-55-6 | 1,1,1-Trichloroethane | 261 | | 250 | 437 | 70 | 250 | 421 | 64* [d] | 4 | 67-132/13 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 250 | 265 | 106 | 250 | 250 | 100 | 6 | 75-120/12 |
| 79-01-6 | Trichloroethene | 5.6 | | 250 | 287 | 113 | 250 | 271 | 106 | 6 | 56-136/12 |
| 75-69-4 | Trichlorofluoromethane | ND | | 250 | 273 | 109 | 250 | 250 | 100 | 9 | 61-145/16 |
| 75-01-4 | Vinyl chloride | 21.9 | | 250 | 250 | 91 | 250 | 228 | 82 | 9 | 41-156/16 |
| 1330-20-7 | Xylene (total) | ND | | 750 | 758 | 101 | 750 | 725 | 97 | 4 | 38-147/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JD52644-1 | JD52644-1 | Limits |
|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 103% | 100% | 100% | 99% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% | 90% | 94% | 94% | 80-120% |
| 2037-26-5 | Toluene-D8 | 89% | 88% | 97% | 97% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | 95% | 92% | 91% | 82-114% |

(a) (pH= 6)Sample pH did not satisfy field preservation criteria.
(b) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time. Dilution required due to high concentration of target compound.
(c) (pH= 6) Sample is not acid preserved per method/client criteria. Sample analyzed within 7 days holding time.
(d) Outside control limits due to matrix interference.
(e) Outside control limits due to high level in sample relative to spike amount.
(f) Result is from Run #2.

* = Outside of Control Limits.

# Instrument Performance Check (BFB)



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V1X8636-BFB
**Lab File ID:** 1X200546.D
**Instrument ID:** GCMS1X
**Injection Date:** 09/28/22
**Injection Time:** 20:11

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 34122 | 21.5 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 76093 | 47.9 | | Pass |
| 95 | Base peak, 100% relative abundance | 158920 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 10654 | 6.70 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 143600 | 90.4 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 10847 | 6.83 | (7.55) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 138637 | 87.2 | (96.5) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 9314 | 5.86 | (6.72) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V1X8636-IC8636 | 1X200548.D | 09/28/22 | 21:15 | 01:04 | Initial cal 0.2 |
| V1X8636-IC8636 | 1X200550.D | 09/28/22 | 21:47 | 01:36 | Initial cal 0.5 |
| V1X8636-IC8636 | 1X200552.D | 09/28/22 | 22:23 | 02:12 | Initial cal 1 |
| V1X8636-IC8636 | 1X200554.D | 09/28/22 | 23:00 | 02:49 | Initial cal 2 |
| V1X8636-IC8636 | 1X200556.D | 09/28/22 | 23:36 | 03:25 | Initial cal 4 |
| V1X8636-IC8636 | 1X200558.D | 09/29/22 | 00:12 | 04:01 | Initial cal 8 |
| V1X8636-IC8636 | 1X200560.D | 09/29/22 | 00:48 | 04:37 | Initial cal 20 |
| V1X8636-ICC8636 | 1X200562.D | 09/29/22 | 01:25 | 05:14 | Initial cal 50 |
| V1X8636-IC8636 | 1X200564.D | 09/29/22 | 02:01 | 05:50 | Initial cal 100 |
| V1X8636-IC8636 | 1X200566.D | 09/29/22 | 02:37 | 06:26 | Initial cal 200 |
| V1X8636-ICV8636 | 1X200572.D | 09/29/22 | 04:25 | 08:14 | Initial cal verification 50 |
| V1X8636-ICV8636 | 1X200574.D | 09/29/22 | 05:02 | 08:51 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V1X8639-BFB
**Lab File ID:** 1X200643.D
**Instrument ID:** GCMS1X
**Injection Date:** 09/30/22
**Injection Time:** 09:46

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 33645 | 20.7 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 76947 | 47.3 | | Pass |
| 95 | Base peak, 100% relative abundance | 162661 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 10912 | 6.71 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 146533 | 90.1 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 11197 | 6.88 | (7.64) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 141869 | 87.2 | (96.8) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 9410 | 5.79 | (6.63) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V1X8639-CC8636 | 1X200643.D | 09/30/22 | 09:46 | 00:00 | Continuing cal 20 |
| V1X8639-BS | 1X200645.D | 09/30/22 | 10:35 | 00:49 | Blank Spike |
| V1X8639-MB | 1X200647.D | 09/30/22 | 11:21 | 01:35 | Method Blank |
| JD52514-8 | 1X200648.D | 09/30/22 | 11:44 | 01:58 | EW-8-62C |
| JD52514-8 | 1X200649.D | 09/30/22 | 12:08 | 02:22 | EW-8-62C |
| JD52514-1 | 1X200650.D | 09/30/22 | 12:31 | 02:45 | EW-1-62C |
| JD52514-9 | 1X200651.D | 09/30/22 | 12:54 | 03:08 | EW-9R-72C |
| JD52514-6 | 1X200652.D | 09/30/22 | 13:17 | 03:31 | EW-6-60C |
| JD52514-2 | 1X200653.D | 09/30/22 | 13:40 | 03:54 | EW-2-62C |
| JD52514-7 | 1X200654.D | 09/30/22 | 14:03 | 04:17 | EW-7-25B |
| JD52514-4 | 1X200655.D | 09/30/22 | 14:26 | 04:40 | EW-4-25B |
| JD52514-5 | 1X200656.D | 09/30/22 | 14:50 | 05:04 | EW-5-25B |
| JD52514-3 | 1X200657.D | 09/30/22 | 15:13 | 05:27 | EW-3-60C |
| JD52514-8MS | 1X200658.D | 09/30/22 | 15:36 | 05:50 | Matrix Spike |
| JD52514-8MSD | 1X200659.D | 09/30/22 | 15:59 | 06:13 | Matrix Spike Duplicate |
| JD52514-7 | 1X200661.D | 09/30/22 | 16:46 | 07:00 | EW-7-25B |
| ZZZZZZ | 1X200662.D | 09/30/22 | 17:09 | 07:23 | (unrelated sample) |
| ZZZZZZ | 1X200663.D | 09/30/22 | 17:32 | 07:46 | (unrelated sample) |
| ZZZZZZ | 1X200664.D | 09/30/22 | 17:56 | 08:10 | (unrelated sample) |
| ZZZZZZ | 1X200665.D | 09/30/22 | 18:19 | 08:33 | (unrelated sample) |
| ZZZZZZ | 1X200666.D | 09/30/22 | 18:42 | 08:56 | (unrelated sample) |
| ZZZZZZ | 1X200667.D | 09/30/22 | 19:05 | 09:19 | (unrelated sample) |
| ZZZZZZ | 1X200668.D | 09/30/22 | 19:28 | 09:42 | (unrelated sample) |
| ZZZZZZ | 1X200669.D | 09/30/22 | 19:52 | 10:06 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Sample:** | V1X8639-BFB | **Injection Date:** | 09/30/22 |
| **Lab File ID:** | 1X200643.D | **Injection Time:** | 09:46 |
| **Instrument ID:** | GCMS1X | | |

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| ZZZZZZ | 1X200671.D | 09/30/22 | 20:38 | 10:52 | (unrelated sample) |
| ZZZZZZ | 1X200672.D | 09/30/22 | 21:01 | 11:15 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2A9511-BFB
**Lab File ID:** 2A218780.D
**Instrument ID:** GCMS2A
**Injection Date:** 07/31/22
**Injection Time:** 16:50

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 75120 | 25.4 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 147328 | 49.8 | | Pass |
| 95 | Base peak, 100% relative abundance | 295616 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 20757 | 7.02 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 260096 | 88.0 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 19904 | 6.73 | (7.65) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 248768 | 84.2 | (95.6) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 16468 | 5.57 | (6.62) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2A9511-IC9511 | 2A218781.D | 07/31/22 | 17:23 | 00:33 | Initial cal 0.2 |
| V2A9511-IC9511 | 2A218782.D | 07/31/22 | 17:51 | 01:01 | Initial cal 0.5 |
| V2A9511-IC9511 | 2A218783.D | 07/31/22 | 18:19 | 01:29 | Initial cal 1 |
| V2A9511-IC9511 | 2A218784.D | 07/31/22 | 18:48 | 01:58 | Initial cal 2 |
| V2A9511-IC9511 | 2A218785.D | 07/31/22 | 19:16 | 02:26 | Initial cal 4 |
| V2A9511-IC9511 | 2A218786.D | 07/31/22 | 19:44 | 02:54 | Initial cal 8 |
| V2A9511-IC9511 | 2A218787.D | 07/31/22 | 20:13 | 03:23 | Initial cal 20 |
| V2A9511-ICC9511 | 2A218788.D | 07/31/22 | 20:41 | 03:51 | Initial cal 50 |
| V2A9511-IC9511 | 2A218789.D | 07/31/22 | 21:09 | 04:19 | Initial cal 100 |
| V2A9511-IC9511 | 2A218790.D | 07/31/22 | 21:38 | 04:48 | Initial cal 200 |
| V2A9511-ICV9511 | 2A218793.D | 07/31/22 | 23:03 | 06:13 | Initial cal verification 50 |
| V2A9511-ICV9511 | 2A218794.D | 07/31/22 | 23:31 | 06:41 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2A9583-BFB
**Lab File ID:** 2A220438.D
**Instrument ID:** GCMS2A
**Injection Date:** 09/30/22
**Injection Time:** 09:16

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 80456 | 21.7 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 180032 | 48.5 | | Pass |
| 95 | Base peak, 100% relative abundance | 371435 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 25032 | 6.74 | | Pass |
| 173 | Less than 2.0% of mass 174 | 1906 | 0.51 | (0.60) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 315563 | 85.0 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 24317 | 6.55 | (7.71) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 310720 | 83.7 | (98.5) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 20520 | 5.52 | (6.60) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2A9583-CC9511 | 2A220438.D | 09/30/22 | 09:16 | 00:00 | Continuing cal 20 |
| V2A9583-BS | 2A220440.D | 09/30/22 | 10:21 | 01:05 | Blank Spike |
| V2A9583-MB | 2A220442.D | 09/30/22 | 11:18 | 02:02 | Method Blank |
| ZZZZZZ | 2A220444.D | 09/30/22 | 12:15 | 02:59 | (unrelated sample) |
| ZZZZZZ | 2A220446.D | 09/30/22 | 13:12 | 03:56 | (unrelated sample) |
| JD52514-12 | 2A220447.D | 09/30/22 | 13:40 | 04:24 | EW-12-45C |
| JD52514-12 | 2A220449.D | 09/30/22 | 14:37 | 05:21 | EW-12-45C |
| ZZZZZZ | 2A220450.D | 09/30/22 | 15:06 | 05:50 | (unrelated sample) |
| JD52514-12MS | 2A220451.D | 09/30/22 | 15:35 | 06:19 | Matrix Spike |
| JD52514-12MSD | 2A220452.D | 09/30/22 | 16:03 | 06:47 | Matrix Spike Duplicate |
| ZZZZZZ | 2A220454.D | 09/30/22 | 17:01 | 07:45 | (unrelated sample) |
| ZZZZZZ | 2A220455.D | 09/30/22 | 17:30 | 08:14 | (unrelated sample) |
| ZZZZZZ | 2A220456.D | 09/30/22 | 17:58 | 08:42 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V4D5341-BFB
**Lab File ID:** 4D120247.D
**Instrument ID:** GCMS4D
**Injection Date:** 08/13/22
**Injection Time:** 19:58

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 14.99 - 40.0% of mass 95 | 56496 | 20.6 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 141485 | 51.6 | | Pass |
| 95 | Base peak, 100% relative abundance | 274069 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 18675 | 6.81 | | Pass |
| 173 | Less than 2.0% of mass 174 | 2724 | 0.99 | (1.06) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 256363 | 93.5 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 18765 | 6.85 | (7.32) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 245909 | 89.7 | (95.9) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 16181 | 5.90 | (6.58) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V4D5341-IC5341 | 4D120248.D | 08/13/22 | 20:38 | 00:40 | Initial cal 0.2 |
| V4D5341-IC5341 | 4D120249.D | 08/13/22 | 21:06 | 01:08 | Initial cal 0.5 |
| V4D5341-IC5341 | 4D120250.D | 08/13/22 | 21:35 | 01:37 | Initial cal 1 |
| V4D5341-IC5341 | 4D120251.D | 08/13/22 | 22:03 | 02:05 | Initial cal 2 |
| V4D5341-IC5341 | 4D120252.D | 08/13/22 | 22:31 | 02:33 | Initial cal 4 |
| V4D5341-IC5341 | 4D120253.D | 08/13/22 | 23:00 | 03:02 | Initial cal 8 |
| V4D5341-IC5341 | 4D120254.D | 08/13/22 | 23:28 | 03:30 | Initial cal 20 |
| V4D5341-ICC5341 | 4D120255.D | 08/13/22 | 23:56 | 03:58 | Initial cal 50 |
| V4D5341-IC5341 | 4D120256.D | 08/14/22 | 00:25 | 04:27 | Initial cal 100 |
| V4D5341-IC5341 | 4D120257.D | 08/14/22 | 00:53 | 04:55 | Initial cal 200 |
| V4D5341-ICV5341 | 4D120260.D | 08/14/22 | 02:18 | 06:20 | Initial cal verification 50 |
| V4D5341-ICV5341 | 4D120261.D | 08/14/22 | 02:46 | 06:48 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V4D5406-BFB
**Lab File ID:** 4D121696.D
**Instrument ID:** GCMS4D
**Injection Date:** 09/29/22
**Injection Time:** 20:44

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 14.99 - 40.0% of mass 95 | 62429 | 20.5 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 139764 | 45.8 | | Pass |
| 95 | Base peak, 100% relative abundance | 305024 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 20077 | 6.58 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 277099 | 90.8 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 21347 | 7.00 | (7.70) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 271339 | 89.0 | (97.9) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 17779 | 5.83 | (6.55) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V4D5406-CC5341 | 4D121696.D | 09/29/22 | 20:44 | 00:00 | Continuing cal 50 |
| V4D5406-BS | 4D121698.D | 09/29/22 | 21:42 | 00:58 | Blank Spike |
| V4D5406-MB | 4D121700.D | 09/29/22 | 22:41 | 01:57 | Method Blank |
| JD52514-13 | 4D121701.D | 09/29/22 | 23:10 | 02:26 | TRIP BLANK |
| JD52514-2 | 4D121702.D | 09/29/22 | 23:39 | 02:55 | EW-2-62C |
| JD52514-2MS | 4D121705.D | 09/30/22 | 01:06 | 04:22 | Matrix Spike |
| JD52514-2MSD | 4D121706.D | 09/30/22 | 01:35 | 04:51 | Matrix Spike Duplicate |
| ZZZZZZ | 4D121708.D | 09/30/22 | 02:32 | 05:48 | (unrelated sample) |
| JD52514-1 | 4D121709.D | 09/30/22 | 03:01 | 06:17 | EW-1-62C |
| JD52514-3 | 4D121710.D | 09/30/22 | 03:30 | 06:46 | EW-3-60C |
| JD52514-4 | 4D121711.D | 09/30/22 | 03:59 | 07:15 | EW-4-25B |
| JD52514-5 | 4D121712.D | 09/30/22 | 04:28 | 07:44 | EW-5-25B |
| JD52514-6 | 4D121713.D | 09/30/22 | 04:57 | 08:13 | EW-6-60C |
| JD52514-9 | 4D121716.D | 09/30/22 | 06:23 | 09:39 | EW-9R-72C |

# Instrument Performance Check (BFB)



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** VL10355-BFB
**Lab File ID:** L342967.D
**Instrument ID:** GCMSL
**Injection Date:** 06/15/22
**Injection Time:** 16:00

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 15125 | 15.4 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 48661 | 49.4 | | Pass |
| 95 | Base peak, 100% relative abundance | 98445 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 6625 | 6.73 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 66648 | 67.7 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 5157 | 5.24 | (7.74) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 64099 | 65.1 | (96.2) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3835 | 3.90 | (5.98) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VL10355-IC10355 | L342968.D | 06/15/22 | 16:25 | 00:25 | Initial cal 0.2 |
| VL10355-IC10355 | L342969.D | 06/15/22 | 16:48 | 00:48 | Initial cal 0.5 |
| VL10355-IC10355 | L342970.D | 06/15/22 | 17:11 | 01:11 | Initial cal 1 |
| VL10355-IC10355 | L342971.D | 06/15/22 | 17:35 | 01:35 | Initial cal 2 |
| VL10355-IC10355 | L342972.D | 06/15/22 | 17:58 | 01:58 | Initial cal 4 |
| VL10355-IC10355 | L342973.D | 06/15/22 | 18:22 | 02:22 | Initial cal 8 |
| VL10355-IC10355 | L342974.D | 06/15/22 | 18:45 | 02:45 | Initial cal 20 |
| VL10355-ICC10355 | L342975.D | 06/15/22 | 19:09 | 03:09 | Initial cal 50 |
| VL10355-IC10355 | L342976.D | 06/15/22 | 19:32 | 03:32 | Initial cal 100 |
| VL10355-IC10355 | L342977.D | 06/15/22 | 19:56 | 03:56 | Initial cal 200 |
| VL10355-ICV10355 | L342980.D | 06/15/22 | 21:06 | 05:06 | Initial cal verification 50 |
| VL10355-ICV10355 | L342981.D | 06/15/22 | 21:29 | 05:29 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Sample:** | VL10355-BFB2 | **Injection Date:** | 06/16/22 |
| **Lab File ID:** | L342984.D | **Injection Time:** | 09:43 |
| **Instrument ID:** | GCMSL | | |

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 14743 | 15.8 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 47061 | 50.6 | | Pass |
| 95 | Base peak, 100% relative abundance | 93093 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 6458 | 6.94 | | Pass |
| 173 | Less than 2.0% of mass 174 | 176 | 0.19 | (0.27) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 64179 | 68.9 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 4737 | 5.09 | (7.38) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 62803 | 67.5 | (97.9) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 4165 | 4.47 | (6.63) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VL10355-ICV10355 | L342985.D | 06/16/22 | 10:06 | 00:23 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** VL10517-BFB
**Lab File ID:** L347768.D
**Instrument ID:** GCMSL
**Injection Date:** 10/03/22
**Injection Time:** 11:43

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 12914 | 15.4 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 39723 | 47.2 | | Pass |
| 95 | Base peak, 100% relative abundance | 84117 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 6113 | 7.27 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 62256 | 74.0 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 4678 | 5.56 | (7.51) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 60766 | 72.2 | (97.6) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3883 | 4.62 | (6.39) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VL10517-CC10355 | L347768.D | 10/03/22 | 11:43 | 00:00 | Continuing cal 20 |
| VL10517-BS | L347770.D | 10/03/22 | 12:31 | 00:48 | Blank Spike |
| VL10517-MB | L347772.D | 10/03/22 | 13:17 | 01:34 | Method Blank |
| ZZZZZZ | L347773.D | 10/03/22 | 13:50 | 02:07 | (unrelated sample) |
| ZZZZZZ | L347774.D | 10/03/22 | 14:13 | 02:30 | (unrelated sample) |
| ZZZZZZ | L347776.D | 10/03/22 | 15:00 | 03:17 | (unrelated sample) |
| JD52644-1 | L347777.D | 10/03/22 | 15:23 | 03:40 | (used for QC only; not part of job JD52514) |
| JD52514-10 | L347778.D | 10/03/22 | 15:46 | 04:03 | EW-10-25B |
| JD52514-10 | L347779.D | 10/03/22 | 16:09 | 04:26 | EW-10-25B |
| JD52514-11 | L347780.D | 10/03/22 | 16:32 | 04:49 | EW-11-43C |
| ZZZZZZ | L347782.D | 10/03/22 | 17:18 | 05:35 | (unrelated sample) |
| JD52644-1MS | L347783.D | 10/03/22 | 17:42 | 05:59 | Matrix Spike |
| JD52644-1MSD | L347784.D | 10/03/22 | 18:05 | 06:22 | Matrix Spike Duplicate |
| JD52644-1 | L347785.D | 10/03/22 | 18:28 | 06:45 | (used for QC only; not part of job JD52514) |
| JD52514-11 | L347786.D | 10/03/22 | 18:51 | 07:08 | EW-11-43C |
| ZZZZZZ | L347787.D | 10/03/22 | 19:15 | 07:32 | (unrelated sample) |
| ZZZZZZ | L347788.D | 10/03/22 | 19:38 | 07:55 | (unrelated sample) |
| ZZZZZZ | L347789.D | 10/03/22 | 20:01 | 08:18 | (unrelated sample) |
| ZZZZZZ | L347790.D | 10/03/22 | 20:24 | 08:41 | (unrelated sample) |
| ZZZZZZ | L347791.D | 10/03/22 | 20:47 | 09:04 | (unrelated sample) |
| ZZZZZZ | L347792.D | 10/03/22 | 21:10 | 09:27 | (unrelated sample) |
| ZZZZZZ | L347793.D | 10/03/22 | 21:33 | 09:50 | (unrelated sample) |
| ZZZZZZ | L347794.D | 10/03/22 | 21:57 | 10:14 | (unrelated sample) |
| ZZZZZZ | L347795.D | 10/03/22 | 22:20 | 10:37 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Sample:** | VL10517-BFB | **Injection Date:** | 10/03/22 |
| **Lab File ID:** | L347768.D | **Injection Time:** | 11:43 |
| **Instrument ID:** | GCMSL | | |

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| ZZZZZZ | L347796.D | 10/03/22 | 22:43 | 11:00 | (unrelated sample) |
| ZZZZZZ | L347797.D | 10/03/22 | 23:06 | 11:23 | (unrelated sample) |
| ZZZZZZ | L347798.D | 10/03/22 | 23:29 | 11:46 | (unrelated sample) |

# Internal Standard Area Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Check Std:** V1X8639-CC8636 **Injection Date:** 09/30/22
**Lab File ID:** 1X200643.D **Injection Time:** 09:46
**Instrument ID:** GCMS1X **Method:** SW846 8260D

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| Check Std | 377980 | 2.44 | 426583 | 3.51 | 595663 | 4.00 | 552869 | 6.07 | 278262 | 7.88 |
| Upper Limit [a] | 755960 | 2.94 | 853166 | 4.01 | 1191326 | 4.50 | 1105738 | 6.57 | 556524 | 8.38 |
| Lower Limit [b] | 188990 | 1.94 | 213292 | 3.01 | 297832 | 3.50 | 276435 | 5.57 | 139131 | 7.38 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| V1X8639-BS | 384383 | 2.44 | 438711 | 3.51 | 606672 | 4.00 | 569714 | 6.07 | 284540 | 7.88 |
| V1X8639-MB | 354438 | 2.44 | 419042 | 3.51 | 584708 | 4.00 | 536154 | 6.07 | 266708 | 7.88 |
| JD52514-8 | 345361 | 2.44 | 412691 | 3.51 | 578282 | 4.00 | 532518 | 6.07 | 263371 | 7.88 |
| JD52514-8 [c] | 355045 | 2.44 | 418332 | 3.51 | 580672 | 4.00 | 534712 | 6.07 | 266411 | 7.88 |
| JD52514-1 | 366280 | 2.44 | 419210 | 3.51 | 585392 | 4.00 | 542279 | 6.07 | 265610 | 7.88 |
| JD52514-9 [c] | 351570 | 2.44 | 413611 | 3.51 | 579356 | 4.00 | 535521 | 6.08 | 265380 | 7.88 |
| JD52514-6 [c] | 366647 | 2.44 | 425250 | 3.51 | 588864 | 4.00 | 547236 | 6.07 | 271840 | 7.88 |
| JD52514-2 | 360664 | 2.44 | 426565 | 3.51 | 595217 | 4.00 | 552108 | 6.08 | 271732 | 7.88 |
| JD52514-7 [c] | 347892 | 2.44 | 407821 | 3.51 | 574778 | 4.00 | 531783 | 6.08 | 264845 | 7.88 |
| JD52514-4 | 342761 | 2.44 | 412280 | 3.51 | 573426 | 4.00 | 532311 | 6.08 | 263100 | 7.88 |
| JD52514-5 [c] | 363137 | 2.44 | 415083 | 3.51 | 578038 | 4.00 | 532727 | 6.08 | 265249 | 7.88 |
| JD52514-3 [c] | 350516 | 2.44 | 412643 | 3.51 | 572495 | 4.00 | 533719 | 6.08 | 263701 | 7.88 |
| JD52514-8MS | 384455 | 2.44 | 435913 | 3.51 | 603639 | 4.00 | 568296 | 6.08 | 285509 | 7.88 |
| JD52514-8MSD | 391305 | 2.44 | 449791 | 3.51 | 619300 | 4.00 | 582485 | 6.08 | 292512 | 7.89 |
| JD52514-7 | 363882 | 2.44 | 423514 | 3.51 | 593851 | 4.00 | 544567 | 6.08 | 272759 | 7.88 |
| ZZZZZZ | 357311 | 2.44 | 424467 | 3.51 | 585538 | 4.00 | 543886 | 6.08 | 268654 | 7.89 |
| ZZZZZZ | 355554 | 2.44 | 424030 | 3.51 | 590005 | 4.00 | 548309 | 6.08 | 271098 | 7.89 |
| ZZZZZZ | 362698 | 2.44 | 430308 | 3.51 | 597846 | 4.00 | 552672 | 6.08 | 274257 | 7.89 |
| ZZZZZZ | 360083 | 2.44 | 421996 | 3.51 | 591850 | 4.00 | 547839 | 6.08 | 272443 | 7.89 |
| ZZZZZZ | 369238 | 2.44 | 433260 | 3.51 | 596734 | 4.00 | 555161 | 6.08 | 272481 | 7.89 |
| ZZZZZZ | 354837 | 2.44 | 431225 | 3.51 | 596505 | 4.00 | 555619 | 6.08 | 278558 | 7.89 |
| ZZZZZZ | 351226 | 2.44 | 415952 | 3.51 | 581907 | 4.00 | 538951 | 6.08 | 265349 | 7.89 |
| ZZZZZZ | 349768 | 2.44 | 419278 | 3.51 | 587570 | 4.00 | 543726 | 6.08 | 269165 | 7.89 |
| ZZZZZZ | 353601 | 2.44 | 422475 | 3.51 | 587402 | 4.00 | 545683 | 6.08 | 270438 | 7.89 |
| ZZZZZZ | 351848 | 2.44 | 418648 | 3.51 | 581228 | 4.00 | 537889 | 6.08 | 266990 | 7.89 |

**IS 1** = Tert Butyl Alcohol-D9
**IS 2** = Pentafluorobenzene
**IS 3** = 1,4-Difluorobenzene
**IS 4** = Chlorobenzene-D5
**IS 5** = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Dilution required due to high concentration of target compound.

# Internal Standard Area Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V2A9583-CC9511 | **Injection Date:** | 09/30/22 |
| **Lab File ID:** | 2A220438.D | **Injection Time:** | 09:16 |
| **Instrument ID:** | GCMS2A | **Method:** | SW846 8260D |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| Check Std | 497683 | 7.25 | 738209 | 9.51 | 1143253 | 10.44 | 1159557 | 13.56 | 591306 | 15.89 |
| Upper Limit [a] | 995366 | 7.75 | 1476418 | 10.01 | 2286506 | 10.94 | 2319114 | 14.06 | 1182612 | 16.39 |
| Lower Limit [b] | 248842 | 6.75 | 369105 | 9.01 | 571627 | 9.94 | 579779 | 13.06 | 295653 | 15.39 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| V2A9583-BS | 506821 | 7.25 | 750798 | 9.51 | 1166077 | 10.44 | 1159944 | 13.56 | 604684 | 15.89 |
| V2A9583-MB | 499433 | 7.25 | 738634 | 9.51 | 1157020 | 10.43 | 1184465 | 13.56 | 576964 | 15.89 |
| ZZZZZZ | 474861 | 7.25 | 724826 | 9.51 | 1140154 | 10.43 | 1186029 | 13.56 | 573382 | 15.89 |
| ZZZZZZ | 491791 | 7.25 | 716367 | 9.51 | 1127838 | 10.43 | 1176716 | 13.56 | 576537 | 15.89 |
| JD52514-12 [c] | 505469 | 7.25 | 732652 | 9.51 | 1148145 | 10.43 | 1199982 | 13.56 | 593514 | 15.89 |
| JD52514-12 | 543649 | 7.25 | 751354 | 9.51 | 1182718 | 10.43 | 1224970 | 13.56 | 611807 | 15.89 |
| ZZZZZZ | 549009 | 7.25 | 722759 | 9.51 | 1136272 | 10.43 | 1196704 | 13.56 | 610216 | 15.89 |
| JD52514-12MS | 536246 | 7.25 | 767509 | 9.51 | 1211541 | 10.43 | 1228623 | 13.56 | 636196 | 15.89 |
| JD52514-12MSD | 531321 | 7.24 | 768609 | 9.51 | 1217767 | 10.43 | 1225838 | 13.56 | 642810 | 15.89 |
| ZZZZZZ | 568422 | 7.25 | 775907 | 9.51 | 1222693 | 10.43 | 1283487 | 13.56 | 648407 | 15.89 |
| ZZZZZZ | 573056 | 7.25 | 761541 | 9.51 | 1206653 | 10.43 | 1267564 | 13.56 | 653344 | 15.89 |
| ZZZZZZ | 587970 | 7.25 | 774608 | 9.51 | 1224916 | 10.43 | 1286824 | 13.56 | 673811 | 15.89 |

**IS 1** = Tert Butyl Alcohol-D9
**IS 2** = Pentafluorobenzene
**IS 3** = 1,4-Difluorobenzene
**IS 4** = Chlorobenzene-D5
**IS 5** = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Dilution required due to high concentration of target compound.

# Internal Standard Area Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V4D5406-CC5341 | **Injection Date:** | 09/29/22 |
| **Lab File ID:** | 4D121696.D | **Injection Time:** | 20:44 |
| **Instrument ID:** | GCMS4D | **Method:** | SW846 8260D |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| Check Std | 706382 | 8.54 | 764135 | 11.02 | 1106962 | 11.92 | 1099836 | 14.82 | 495177 | 16.93 |
| Upper Limit [a] | 1412764 | 9.04 | 1528270 | 11.52 | 2213924 | 12.42 | 2199672 | 15.32 | 990354 | 17.43 |
| Lower Limit [b] | 353191 | 8.04 | 382068 | 10.52 | 553481 | 11.42 | 549918 | 14.32 | 247589 | 16.43 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| V4D5406-BS | 745113 | 8.54 | 787644 | 11.02 | 1136670 | 11.91 | 1125127 | 14.82 | 513948 | 16.93 |
| V4D5406-MB | 760648 | 8.53 | 839510 | 11.02 | 1200091 | 11.92 | 1184427 | 14.82 | 536302 | 16.93 |
| JD52514-13 | 751403 | 8.53 | 835119 | 11.02 | 1200581 | 11.92 | 1187071 | 14.82 | 534478 | 16.93 |
| JD52514-2 | 768425 | 8.53 | 824436 | 11.02 | 1183259 | 11.92 | 1166029 | 14.82 | 523489 | 16.93 |
| JD52514-2MS | 746490 | 8.53 | 775803 | 11.02 | 1118540 | 11.91 | 1102709 | 14.82 | 496886 | 16.93 |
| JD52514-2MSD | 792935 | 8.53 | 824658 | 11.02 | 1182735 | 11.92 | 1160008 | 14.82 | 519988 | 16.93 |
| ZZZZZZ | 847063 | 8.53 | 878499 | 11.02 | 1239938 | 11.92 | 1234730 | 14.82 | 556511 | 16.93 |
| JD52514-1 | 769170 | 8.53 | 843301 | 11.02 | 1209963 | 11.92 | 1189567 | 14.82 | 536441 | 16.93 |
| JD52514-3 | 735236 | 8.53 | 837111 | 11.02 | 1202226 | 11.92 | 1182460 | 14.82 | 524869 | 16.93 |
| JD52514-4 [c] | 813617 | 8.53 | 806232 | 11.02 | 1176496 | 11.92 | 1166561 | 14.82 | 532065 | 16.93 |
| JD52514-5 | 628226 | 8.53 | 686119 | 11.02 | 925415 | 11.92 | 903428 | 14.82 | 429468 | 16.93 |
| JD52514-6 | 738282 | 8.53 | 812017 | 11.02 | 1174713 | 11.92 | 1160468 | 14.82 | 517996 | 16.93 |
| JD52514-9 | 729387 | 8.53 | 787259 | 11.02 | 1144833 | 11.92 | 1128438 | 14.82 | 505778 | 16.93 |

**IS 1** = Tert Butyl Alcohol-D9
**IS 2** = Pentafluorobenzene
**IS 3** = 1,4-Difluorobenzene
**IS 4** = Chlorobenzene-D5
**IS 5** = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Dilution required due to high concentration of target compound.

# Internal Standard Area Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Check Std:** VL10517-CC10355 **Injection Date:** 10/03/22
**Lab File ID:** L347768.D **Injection Time:** 11:43
**Instrument ID:** GCMSL **Method:** SW846 8260D

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| Check Std | 163251 | 3.09 | 227666 | 4.31 | 341884 | 4.88 | 318661 | 7.28 | 123457 | 9.47 |
| Upper Limit [a] | 326502 | 3.59 | 455332 | 4.81 | 683768 | 5.38 | 637322 | 7.78 | 246914 | 9.97 |
| Lower Limit [b] | 81626 | 2.59 | 113833 | 3.81 | 170942 | 4.38 | 159331 | 6.78 | 61729 | 8.97 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| VL10517-BS | 161484 | 3.09 | 225003 | 4.31 | 338282 | 4.88 | 324914 | 7.28 | 125136 | 9.47 |
| VL10517-MB | 173165 | 3.09 | 256447 | 4.31 | 370598 | 4.88 | 332001 | 7.28 | 138862 | 9.47 |
| ZZZZZZ | 196558 | 3.09 | 270896 | 4.31 | 385965 | 4.88 | 349989 | 7.28 | 142660 | 9.47 |
| ZZZZZZ | 174716 | 3.09 | 260615 | 4.31 | 383115 | 4.88 | 356524 | 7.27 | 148404 | 9.46 |
| ZZZZZZ | 179366 | 3.09 | 244782 | 4.31 | 358611 | 4.88 | 333104 | 7.28 | 135711 | 9.47 |
| JD52644-1 | 178204 | 3.09 | 235794 | 4.31 | 347288 | 4.88 | 327381 | 7.27 | 138872 | 9.47 |
| JD52514-10 | 179355 | 3.09 | 240883 | 4.31 | 352241 | 4.88 | 319919 | 7.28 | 133880 | 9.47 |
| JD52514-10 | 174605 | 3.09 | 223028 | 4.31 | 342425 | 4.88 | 324458 | 7.28 | 133392 | 9.47 |
| JD52514-11 [c] | 190489 | 3.09 | 225328 | 4.31 | 358011 | 4.88 | 331973 | 7.28 | 140607 | 9.46 |
| ZZZZZZ | 171025 | 3.09 | 229760 | 4.31 | 341563 | 4.88 | 328121 | 7.28 | 140950 | 9.47 |
| JD52644-1MS [d] | 148984 | 3.09 | 200215 | 4.30 | 311344 | 4.88 | 308453 | 7.27 | 118473 | 9.47 |
| JD52644-1MSD [d] | 162026 | 3.09 | 208539 | 4.31 | 318426 | 4.88 | 313413 | 7.28 | 121744 | 9.47 |
| JD52644-1 | 197201 | 3.09 | 251680 | 4.31 | 374123 | 4.88 | 344562 | 7.27 | 145790 | 9.47 |
| JD52514-11 | 199753 | 3.09 | 239325 | 4.31 | 357658 | 4.88 | 325284 | 7.27 | 134718 | 9.47 |
| ZZZZZZ | 170654 | 3.09 | 248917 | 4.31 | 361688 | 4.88 | 335285 | 7.27 | 138879 | 9.46 |
| ZZZZZZ | 187486 | 3.09 | 255615 | 4.31 | 366701 | 4.88 | 332905 | 7.28 | 135670 | 9.47 |
| ZZZZZZ | 170683 | 3.09 | 245830 | 4.31 | 359411 | 4.88 | 330340 | 7.28 | 137829 | 9.46 |
| ZZZZZZ | 176108 | 3.09 | 242899 | 4.31 | 359991 | 4.88 | 325912 | 7.27 | 135846 | 9.47 |
| ZZZZZZ | 178436 | 3.09 | 237196 | 4.31 | 355419 | 4.88 | 324306 | 7.28 | 134418 | 9.47 |
| ZZZZZZ | 192284 | 3.09 | 245801 | 4.31 | 359853 | 4.88 | 337097 | 7.27 | 137449 | 9.47 |
| ZZZZZZ | 186822 | 3.09 | 256844 | 4.31 | 378104 | 4.88 | 339986 | 7.27 | 139961 | 9.47 |
| ZZZZZZ | 199302 | 3.09 | 251343 | 4.31 | 363529 | 4.88 | 333718 | 7.27 | 139176 | 9.47 |
| ZZZZZZ | 186836 | 3.09 | 245297 | 4.31 | 364691 | 4.88 | 334754 | 7.27 | 137821 | 9.47 |
| ZZZZZZ | 171838 | 3.09 | 243855 | 4.31 | 355511 | 4.88 | 334233 | 7.28 | 136134 | 9.47 |
| ZZZZZZ | 177853 | 3.09 | 247157 | 4.31 | 361730 | 4.88 | 330749 | 7.27 | 136026 | 9.47 |
| ZZZZZZ | 190205 | 3.09 | 224582 | 4.31 | 331492 | 4.88 | 309968 | 7.27 | 128012 | 9.47 |

**IS 1** = Tert Butyl Alcohol-D9
**IS 2** = Pentafluorobenzene
**IS 3** = 1,4-Difluorobenzene
**IS 4** = Chlorobenzene-D5
**IS 5** = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

# Internal Standard Area Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | VL10517-CC10355 | **Injection Date:** | 10/03/22 |
| **Lab File ID:** | L347768.D | **Injection Time:** | 11:43 |
| **Instrument ID:** | GCMSL | **Method:** | SW846 8260D |

| Lab Sample ID | IS 1 AREA | IS 1 RT | IS 2 AREA | IS 2 RT | IS 3 AREA | IS 3 RT | IS 4 AREA | IS 4 RT | IS 5 AREA | IS 5 RT |
|---|---|---|---|---|---|---|---|---|---|---|

(c) Dilution required due to high concentration of target compound.
(d) (pH= 6)Sample pH did not satisfy field preservation criteria.

# Surrogate Recovery Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Method:** SW846 8260D **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| JD52514-1 | 1X200650.D | 96 | 97 | 99 | 102 |
| JD52514-1 | 4D121709.D | 106 | 97 | 101 | 97 |
| JD52514-2 | 1X200653.D | 95 | 97 | 99 | 101 |
| JD52514-2 | 4D121702.D | 105 | 98 | 99 | 98 |
| JD52514-3 | 1X200657.D | 95 | 97 | 99 | 100 |
| JD52514-3 | 4D121710.D | 104 | 96 | 100 | 98 |
| JD52514-4 | 1X200655.D | 95 | 98 | 99 | 101 |
| JD52514-4 | 4D121711.D | 105 | 98 | 99 | 97 |
| JD52514-5 | 1X200656.D | 95 | 98 | 100 | 100 |
| JD52514-5 | 4D121712.D | 104 | 96 | 96 | 91 |
| JD52514-6 | 1X200652.D | 96 | 99 | 98 | 101 |
| JD52514-6 | 4D121713.D | 106 | 97 | 100 | 98 |
| JD52514-7 | 1X200654.D | 97 | 98 | 99 | 99 |
| JD52514-7 | 1X200661.D | 96 | 97 | 100 | 100 |
| JD52514-8 | 1X200648.D | 96 | 98 | 100 | 101 |
| JD52514-8 | 1X200649.D | 96 | 98 | 100 | 101 |
| JD52514-9 | 1X200651.D | 96 | 98 | 99 | 101 |
| JD52514-9 | 4D121716.D | 106 | 97 | 101 | 98 |
| JD52514-10 | L347778.D | 98 | 96 | 100 | 93 |
| JD52514-10 | L347779.D | 100 | 94 | 97 | 92 |
| JD52514-11 | L347786.D | 100 | 95 | 98 | 93 |
| JD52514-11 | L347780.D | 99 | 95 | 96 | 90 |
| JD52514-12 | 2A220447.D | 109 | 82 | 92 | 109 |
| JD52514-12 | 2A220449.D | 109 | 83 | 92 | 109 |
| JD52514-13 | 4D121701.D | 107 | 98 | 100 | 98 |
| JD52514-12MS | 2A220451.D | 109 | 79* [a] | 93 | 107 |
| JD52514-12MSD | 2A220452.D | 109 | 79* [a] | 94 | 107 |
| JD52514-2MS | 4D121705.D | 107 | 93 | 98 | 97 |
| JD52514-2MSD | 4D121706.D | 106 | 92 | 98 | 97 |
| JD52514-8MS | 1X200658.D | 94 | 95 | 100 | 98 |
| JD52514-8MSD | 1X200659.D | 94 | 95 | 99 | 98 |
| JD52644-1MS | L347783.D | 103 | 92 | 89 | 95 |
| JD52644-1MSD | L347784.D | 100 | 90 | 88 | 95 |
| V1X8639-BS | 1X200645.D | 94 | 96 | 99 | 98 |
| V1X8639-MB | 1X200647.D | 95 | 98 | 100 | 100 |
| V2A9583-BS | 2A220440.D | 107 | 81 | 94 | 106 |
| V2A9583-MB | 2A220442.D | 110 | 83 | 92 | 110 |
| V4D5406-BS | 4D121698.D | 106 | 93 | 98 | 96 |
| V4D5406-MB | 4D121700.D | 105 | 97 | 100 | 97 |
| VL10517-BS | L347770.D | 99 | 90 | 90 | 95 |

# Surrogate Recovery Summary



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Method:** SW846 8260D **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| VL10517-MB | L347772.D | 97 | 96 | 100 | 90 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 80-120% |
| **S2** = 1,2-Dichloroethane-D4 | 80-120% |
| **S3** = Toluene-D8 | 80-120% |
| **S4** = 4-Bromofluorobenzene | 82-114% |

(a) Outside control limits due to matrix interference.

# Initial Calibration Summary



**Job Number:** JD52514 **Sample:** V1X8636-ICC8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200562.D
**Project:** EPT, Ithaca, NY

Response Factor Report ACC-VOA-M

Method : C:\MSDCHEM\1\METHODS\M1X8636.M (RTE Integrator)
Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
Last Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

Calibration Files
1 =1X200552.D 2 =1X200554.D 100 =1X200564.D 50 =1X200562.D
20 =1X200560.D 200 =1X200566.D 4 =1X200556.D 8 =1X200558.D
0.5 =1X200550.D 0.2 =1X200548.D = =

| Compound | 1 | 2 | 100 | 50 | 20 | 200 | 4 | 8 | 0.5 | 0.2 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) I tert butyl alcohol-d9 | ISTD | | | | | | | | | | | |
| 2) ethanol | 0.065 | 0.055 | 0.040 | 0.045 | 0.046 | 0.034 | 0.051 | 0.046 | | | 0.048 | 19.62 |
| 3) tertiary butyl alcohol | 0.864 | 0.783 | 0.739 | 0.757 | 0.737 | 0.714 | 0.738 | 0.719 | | | 0.756 | 6.44 |
| 4) 1,4-dioxane | 0.048 | 0.060 | 0.062 | 0.064 | 0.062 | 0.063 | 0.061 | 0.061 | | | 0.060 | 8.20 |
| 5) I pentafluorobenzene | ISTD | | | | | | | | | | | |
| 6) chlorodifluoromethane | 0.469 | 0.445 | 0.389 | 0.412 | 0.415 | 0.367 | 0.426 | 0.414 | 0.451 | 0.475 | 0.426 | 8.02 |
| 7) dichlorodifluoromethane | 0.456 | 0.400 | 0.386 | 0.406 | 0.398 | 0.359 | 0.419 | 0.402 | 0.377 | | 0.400 | 6.82 |
| 8) chloromethane | 0.504 | 0.441 | 0.387 | 0.419 | 0.402 | 0.358 | 0.421 | 0.411 | | | 0.418 | 10.17 |
| 9) vinyl chloride | 0.473 | 0.438 | 0.419 | 0.455 | 0.438 | 0.391 | 0.449 | 0.432 | 0.477 | | 0.441 | 6.03 |
| 10) bromomethane | 0.060 | 0.057 | 0.064 | 0.071 | 0.064 | 0.048 | 0.060 | 0.066 | | | 0.061 | 10.98 |
| 11) chloroethane | 0.233 | 0.201 | 0.147 | 0.184 | 0.188 | | 0.213 | 0.201 | | | 0.195 | 13.70 |
| 12) trichlorofluoromethane | 0.636 | 0.578 | 0.587 | 0.623 | 0.580 | 0.527 | 0.585 | 0.580 | 0.523 | 0.557 | 0.578 | 6.20 |
| 13) 1,3-butadiene *This compound fails Initial Calibration criteria* | 0.324 | 0.357 | 0.370 | 0.290 | 0.394 | 0.380 | | | | | 0.352 | 11.02 |
| 14) ethyl ether | 0.157 | 0.149 | 0.143 | 0.151 | 0.147 | 0.139 | 0.154 | 0.143 | 0.141 | | 0.147 | 4.22 |
| 15) acrolein | 0.097 | 0.083 | 0.085 | 0.088 | 0.080 | 0.080 | 0.072 | 0.080 | | | 0.083 | 9.08 |
| 16) 1,1-dichloroethene | 0.281 | 0.289 | 0.282 | 0.289 | 0.282 | 0.274 | 0.278 | 0.273 | 0.294 | 0.249 | 0.279 | 4.48 |
| 17) freon 113 | 0.347 | 0.358 | 0.347 | 0.347 | 0.339 | 0.331 | 0.342 | 0.332 | 0.348 | 0.313 | 0.340 | 3.68 |
| 18) acetone | 0.054 | 0.050 | 0.044 | 0.046 | 0.046 | 0.041 | 0.046 | 0.044 | 0.055 | | 0.047 | 9.79 |
| 19) acetonitrile | 0.078 | 0.071 | 0.059 | 0.063 | 0.064 | 0.055 | 0.069 | 0.066 | | | 0.066 | 10.85 |
| 20) iodomethane *This compound fails Initial Calibration criteria* | 0.033 | 0.229 | 0.195 | 0.103 | 0.236 | 0.041 | 0.059 | | | | 0.128 | 70.13 |
| 21) carbon disulfide | 0.744 | 0.675 | 0.720 | 0.728 | 0.698 | 0.722 | 0.663 | 0.648 | 0.716 | | 0.701 | 4.67 |
| 22) methylene chloride | 0.316 | 0.273 | 0.255 | 0.272 | 0.271 | 0.247 | 0.270 | 0.260 | 0.271 | | 0.271 | 7.10 |
| 23) methyl acetate | | | | | | | | | | | | |

```
            0.435 0.371 0.396 0.373 0.350 0.398 0.372              0.385    7.16
24)  methyl tert butyl ether
      0.898 0.799 0.798 0.827 0.789 0.787 0.784 0.783 0.783 0.812  0.806    4.37
25)  acrylonitrile
      0.198 0.181 0.179 0.186 0.177 0.170 0.173 0.177 0.167        0.179    5.20
26)  trans-1,2-dichloroethene
      0.319 0.313 0.298 0.304 0.302 0.296 0.296 0.290 0.303        0.302    3.01
27)  hexane
      0.499 0.497 0.472 0.474 0.459 0.446 0.459 0.436 0.477 0.549  0.477    6.76
28)  di-isopropyl ether
      1.083 0.999 0.997 1.029 0.999 0.975 0.982 0.949 1.052 0.983  1.005    3.93
29)  2-butanone
      0.058 0.052 0.053 0.056 0.053 0.051 0.051 0.050 0.047        0.052    6.34
30)  1,1-dichloroethane
      0.589 0.534 0.514 0.530 0.524 0.506 0.530 0.517 0.526 0.473  0.524    5.50
31)  chloroprene
      0.527 0.511 0.510 0.523 0.520 0.498 0.486 0.475 0.423 0.489  0.496    6.26
32)  vinyl acetate
      0.054 0.054 0.063 0.065 0.058 0.061 0.054 0.058              0.058    7.59
33)  ethyl tert-butyl ether
      0.951 0.896 0.906 0.933 0.894 0.893 0.869 0.853 0.842 0.936  0.897    4.00
34)  ethyl acetate
      0.083 0.075 0.082 0.085 0.076 0.077 0.071 0.074 0.089        0.079    7.26
35)  2,2-dichloropropane
      0.461 0.438 0.435 0.435 0.423 0.431 0.410 0.402 0.442 0.473  0.435    4.85
36)  cis-1,2-dichloroethene
      0.358 0.323 0.318 0.330 0.318 0.317 0.317 0.307 0.348        0.326    5.09
37)  methyl acrylate
      0.521 0.500 0.499 0.519 0.500 0.483 0.473 0.489 0.454        0.493    4.35
38)  propionitrile
      0.084 0.078 0.071 0.076 0.074 0.067 0.074 0.075 0.071 0.074  0.075    6.20
39)  tert-butyl formate  *This compound fails Initial Calibration criteria*
      0.202 0.183 0.214 0.216 0.186 0.220 0.176 0.180 0.184        0.196    8.87
40)  bromochloromethane
      0.175 0.169 0.155 0.164 0.161 0.147 0.167 0.155 0.174 0.197  0.166    8.46
41)  tetrahydrofuran
            0.197 0.158 0.169 0.161 0.149 0.167 0.169              0.167    8.95
42)  chloroform
      0.616 0.556 0.507 0.525 0.512 0.497 0.530 0.498 0.624        0.541    8.97
43)  dibromofluoromethane (s)
      0.475 0.478 0.463 0.470 0.474 0.461 0.478 0.479 0.476 0.463  0.472    1.48
44)  methacrylonitrile
      0.155 0.147 0.161 0.166 0.159 0.154 0.150 0.158 0.154        0.156    3.84
45)  1,1,1-trichloroethane
      0.524 0.516 0.514 0.526 0.509 0.507 0.504 0.490 0.523 0.557  0.517    3.40
46)  cyclohexane
      0.522 0.479 0.467 0.475 0.448 0.458 0.464 0.453 0.453 0.507  0.473    5.17
47)  tert amyl alcohol
      0.031 0.028 0.024 0.026 0.026 0.022 0.027 0.027 0.028        0.027    9.65
48)  1,1-dichloropropene
      0.434 0.412 0.429 0.435 0.425 0.421 0.415 0.407 0.399 0.472  0.425    4.77
49)  isobutyl alcohol
      0.007 0.008 0.006 0.006 0.006 0.006 0.007 0.007              0.007   10.15
50)  carbon tetrachloride
      0.451 0.431 0.485 0.479 0.452 0.485 0.426 0.419 0.435 0.502  0.457    6.39
51)  isopropyl acetate
      0.072 0.065 0.079 0.082 0.074 0.077 0.068 0.070 0.067        0.073    7.92

52) I   1,4-difluorobenzene   ----------------ISTD---------------------
53)  1,2-dichloroethane-d4 (s)
```

```
      0.387 0.392 0.372 0.372 0.384 0.376 0.387 0.386 0.388 0.378  0.382    1.91
54)  iso-octane
      0.725 0.692 0.696 0.687 0.660 0.694 0.653 0.642 0.726 0.761  0.694    5.27
55)  epichlorohydrin
      0.038 0.035 0.035 0.038 0.035 0.035 0.034 0.034 0.029        0.035    7.47
56)  n-butyl alcohol
      0.011 0.011 0.012 0.013 0.012 0.012 0.011 0.011 0.008        0.011   10.45
57)  benzene
      0.893 0.853 0.817 0.820 0.802 0.812 0.799 0.772 0.784 1.034  0.839    9.16
58)  tert-amyl methyl ether
      0.589 0.553 0.586 0.588 0.544 0.592 0.525 0.524 0.498 0.534  0.553    6.10
59)  heptane
      0.141 0.132 0.126 0.125 0.124 0.123 0.122 0.120 0.111 0.128  0.125    6.36
60)  1,2-dichloroethane
      0.391 0.360 0.292 0.301 0.290 0.286 0.313 0.297              0.316   12.13
61)  trichloroethene
      0.285 0.255 0.265 0.267 0.262 0.262 0.252 0.246 0.256        0.261    4.20
62)  ethyl acrylate
      0.351 0.343 0.361 0.366 0.337 0.351 0.333 0.332 0.332 0.309  0.341    4.90
63)  2-nitropropane
      0.086 0.083 0.092 0.091 0.077 0.097 0.072 0.074              0.084   10.86
64)  2-chloroethyl vinyl ether
      0.150 0.143 0.153 0.157 0.146 0.152 0.140 0.141 0.127        0.145    6.27
65)  methyl methacrylate
      0.072 0.064 0.072 0.073 0.067 0.071 0.062 0.063              0.068    6.63
66)  1,2-dichloropropane
      0.084 0.081 0.084 0.086 0.082 0.084 0.080 0.082 0.074        0.082    4.04
67)  dibromomethane
      0.162 0.139 0.135 0.139 0.134 0.134 0.138 0.130 0.166        0.142    9.14
68)  methylcyclohexane
      0.350 0.362 0.368 0.364 0.342 0.365 0.330 0.330 0.355 0.350  0.352    4.02
69)  bromodichloromethane
      0.248 0.225 0.258 0.261 0.240 0.259 0.231 0.222 0.236        0.242    6.18
70)  cis-1,3-dichloropropene
      0.282 0.264 0.305 0.310 0.285 0.305 0.266 0.259 0.248        0.281    8.03
71)  4-methyl-2-pentanone
      0.122 0.117 0.120 0.123 0.115 0.116 0.113 0.114 0.110 0.098  0.115    6.25
72)  3-methyl-1-butanol
      0.008 0.008 0.010 0.010 0.009 0.010 0.008 0.008              0.009   12.38

73) I   chlorobenzene-d5      ----------------ISTD---------------------
74)  toluene-d8 (s)
      1.195 1.198 1.194 1.186 1.192 1.223 1.190 1.191 1.191 1.200  1.196    0.86
75)  toluene
      0.583 0.554 0.555 0.550 0.544 0.564 0.535 0.512 0.531        0.547    3.74
76)  trans-1,3-dichloropropene
      0.261 0.245 0.307 0.304 0.277 0.312 0.245 0.251 0.262        0.274    9.96
77)  ethyl methacrylate
      0.287 0.277 0.288 0.295 0.276 0.287 0.265 0.259 0.247        0.276    5.78
78)  1,1,2-trichloroethane
      0.185 0.160 0.168 0.173 0.160 0.167 0.157 0.157 0.152 0.178  0.166    6.37
79)  tetrachloroethene
      0.218 0.215 0.228 0.225 0.214 0.229 0.209 0.205 0.190 0.261  0.220    8.56
80)  1,3-dichloropropane
      0.339 0.309 0.313 0.322 0.304 0.309 0.305 0.292 0.303 0.381  0.318    7.99
81)  2-hexanone
      0.139 0.132 0.132 0.136 0.129 0.128 0.129 0.128 0.124 0.112  0.129    5.75
82)  butyl acetate
      0.206 0.179 0.180 0.187 0.175 0.174 0.171 0.170 0.177 0.213  0.183    8.06
83)  dibromochloromethane
```

```
      0.218 0.188 0.250 0.248 0.215 0.255 0.190 0.196 0.191 0.228  0.218   12.20
 84)  1,2-dibromoethane
      0.223 0.222 0.230 0.240 0.222 0.228 0.210 0.208 0.208        0.221    4.92
 85)  n-butyl ether
      0.925 0.883 0.916 0.925 0.874 0.897 0.839 0.838 0.858 0.915  0.887    3.83
 86)  chlorobenzene
      0.703 0.636 0.610 0.624 0.604 0.608 0.614 0.585 0.608        0.621    5.41
 87)  1,1,1,2-tetrachloroethane
      0.205 0.184 0.240 0.237 0.212 0.245 0.192 0.193              0.214   11.28
 88)  ethylbenzene
      1.081 1.056 1.052 1.048 1.014 1.043 1.006 0.975 1.008 1.209  1.049    6.12
 89)  m,p-xylene
      0.437 0.417 0.416 0.419 0.410 0.412 0.399 0.390 0.396 0.433  0.413    3.64
 90)  o-xylene
      0.832 0.803 0.791 0.798 0.777 0.782 0.769 0.746 0.740 0.803  0.784    3.53
 91)  styrene
      0.685 0.642 0.669 0.683 0.655 0.661 0.624 0.610 0.612 0.814  0.665    8.84
 92)  butyl acrylate
      0.458 0.438 0.475 0.496 0.455 0.458 0.423 0.426 0.419        0.450    5.71
 93)  n-amyl acetate
      0.156 0.146 0.158 0.166 0.153 0.149 0.140 0.146 0.132        0.150    6.64
 94)  bromoform
      0.120 0.119 0.178 0.172 0.144 0.182 0.119 0.123              0.145   19.61
 95)  isopropylbenzene
      1.071 1.022 1.032 1.057 1.022 0.996 0.999 0.969 0.996 1.059  1.022    3.22
 96)  cis-1,4-dichloro-2-butene
             0.105 0.097 0.076 0.107 0.055 0.064                   0.084   26.38
        ----- Linear regression -----  Coefficient =  0.9973
          Response Ratio = -0.00600 + 0.10699 *A


 97) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
 98)  4-bromofluorobenzene (s)
      0.875 0.874 0.862 0.856 0.846 0.869 0.876 0.862 0.879 0.883  0.868    1.33
 99)  bromobenzene
      0.603 0.547 0.545 0.561 0.517 0.557 0.526 0.509 0.575        0.549    5.36
100)  1,1,2,2-tetrachloroethane
      0.577 0.554 0.582 0.586 0.543 0.584 0.530 0.537 0.486 0.458  0.544    8.00
101)  trans-1,4-dichloro-2-butene
            0.144 0.183 0.173 0.149 0.188 0.134 0.136              0.158   14.23
102)  1,2,3-trichloropropane
      0.192 0.189 0.184 0.189 0.178 0.184 0.175 0.168 0.157        0.179    6.44
103)  n-propylbenzene
      2.353 2.178 2.310 2.309 2.219 2.287 2.153 2.123 2.160 2.604  2.270    6.23
104)  2-chlorotoluene
      0.550 0.533 0.508 0.513 0.494 0.510 0.499 0.484 0.497 0.453  0.504    5.23
105)  4-chlorotoluene
      1.489 1.327 1.330 1.342 1.284 1.345 1.268 1.236 1.281        1.322    5.51
106)  1,3,5-trimethylbenzene
      1.569 1.440 1.566 1.539 1.470 1.596 1.425 1.388 1.382 1.443  1.482    5.34
107)  tert-butylbenzene
      1.504 1.474 1.462 1.471 1.418 1.447 1.384 1.339 1.414 1.505  1.442    3.69
108)  1,2,4-trimethylbenzene
      1.574 1.474 1.539 1.525 1.458 1.575 1.449 1.381 1.420 1.613  1.501    5.04
109)  sec-butylbenzene
      2.065 1.919 2.069 2.063 1.972 2.048 1.916 1.856 1.886 2.031  1.983    4.16
110)  1,3-dichlorobenzene
      1.025 0.990 0.981 1.003 0.949 0.992 0.951 0.910 1.039        0.982    4.11
111)  p-isopropyltoluene
      1.698 1.629 1.773 1.754 1.675 1.798 1.577 1.591 1.615 1.698  1.681    4.60
```

# Initial Calibration Summary

**Job Number:** JD52514 **Sample:** V1X8636-ICC8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200562.D
**Project:** EPT, Ithaca, NY

```
112)  1,4-dichlorobenzene
       1.091 0.994 0.989 1.020 0.968 1.007 0.976 0.935 1.132        1.012    6.11
113)  1,2-dichlorobenzene
       0.958 0.914 0.927 0.952 0.906 0.939 0.900 0.866 0.904        0.918    3.15
114)  benzyl chloride
       0.702 0.671 0.979 0.946 0.817 1.008 0.669 0.705              0.812   17.92
115)  n-butylbenzene
       0.763 0.725 0.782 0.775 0.730 0.817 0.693 0.682 0.616 0.812  0.739    8.54
116)  1,2-dibromo-3-chloropropane
             0.144 0.181 0.183 0.160 0.191 0.136 0.144              0.163   13.62
117)  1,3,5-trichlorobenzene
       0.597 0.566 0.595 0.611 0.572 0.651 0.550 0.542 0.558 0.660  0.590    6.91
118)  hexachlorobutadiene
       0.234 0.203 0.221 0.216 0.206 0.251 0.194 0.189 0.195 0.195  0.210    9.57
119)  naphthalene
       1.987 1.823 1.921 1.943 1.818 2.035 1.817 1.786 1.827 2.354  1.931    8.84
120)  1,2,4-trichlorobenzene
       0.528 0.500 0.525 0.529 0.489 0.584 0.472 0.459 0.474 0.581  0.514    8.49
121)  1,2,3-trichlorobenzene
       0.497 0.480 0.523 0.517 0.481 0.571 0.449 0.452 0.494 0.545  0.501    7.75
122)  hexachloroethane
             0.145 0.232 0.217 0.180       0.143 0.154              0.179   21.55
             ----- Linear regression -----  Coefficient =  0.9937
               Response Ratio = -0.00596 + 0.22590 *A

123)  2-methylnaphthalene
       0.897 0.813 1.075 1.055 0.918 1.128 0.807 0.852 0.944        0.943   12.45
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M1X8636.M         Thu Sep 29 14:02:51 2022   GCMSX
```

# Initial Calibration Verification



**Job Number:** JD52514 **Sample:** V1X8636-ICV8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200572.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\VX8636\1X200572.D Vial: 14
Acq On : 29 Sep 2022 4:25 am Operator: PrashanS
Sample : ICV8636-50 Inst : ACC-VOA-M
Misc : MS62283,V1X8636,5,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M1X8636.M (RTE Integrator)
Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
Last Update : Thu Sep 29 10:06:17 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 2.44 |
| 2 | | ethanol | 0.048 | 0.043 | 10.4 | 100 | 0.00 | 1.94 |
| 3 | | tertiary butyl alcohol | 0.756 | 0.783 | -3.6 | 109 | 0.00 | 2.49 |
| 4 | | 1,4-dioxane | 0.060 | 0.063 | -5.0 | 104 | 0.00 | 4.38 |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 107 | 0.00 | 3.51 |
| 6 | | chlorodifluoromethane | | ----------NA---------- | | | | |
| 7 | | dichlorodifluoromethane | 0.400 | 0.433 | -8.2 | 114 | 0.00 | 1.24 |
| 8 | | chloromethane | 0.418 | 0.416 | 0.5 | 106 | 0.00 | 1.37 |
| 9 | | vinyl chloride | 0.441 | 0.464 | -5.2 | 109 | 0.00 | 1.43 |
| 10 | | bromomethane | 0.061 | 0.075 | -23.0 | 113 | 0.00 | 1.64 |
| 11 | | chloroethane | 0.195 | 0.194 | 0.5 | 113 | 0.00 | 1.70 |
| 12 | | trichlorofluoromethane | 0.578 | 0.609 | -5.4 | 105 | 0.00 | 1.86 |
| 13 | | 1,3-butadiene | 0.352 | 0.495 | -40.6# | 149 | 0.00 | 1.46 |
| 14 | | ethyl ether | 0.147 | 0.148 | -0.7 | 105 | 0.00 | 2.02 |
| 15 | | acrolein | 0.083 | 0.089 | -7.2 | 108 | 0.00 | 2.10 |
| 16 | | 1,1-dichloroethene | 0.279 | 0.289 | -3.6 | 107 | 0.00 | 2.17 |
| 17 | | freon 113 | 0.340 | 0.327 | 3.8 | 101 | 0.00 | 2.17 |
| 18 | | acetone | 0.047 | 0.042 | 10.6 | 98 | 0.00 | 2.18 |
| 19 | | acetonitrile | | ----------NA---------- | | | | |
| 20 | | iodomethane | 0.128 | 0.148 | -15.6 | 81 | 0.00 | 2.27 |
| 21 | | carbon disulfide | 0.701 | 0.746 | -6.4 | 110 | 0.00 | 2.32 |
| 22 | | methylene chloride | 0.271 | 0.269 | 0.7 | 106 | 0.00 | 2.46 |
| 23 | | methyl acetate | 0.385 | 0.416 | -8.1 | 113 | 0.00 | 2.36 |
| 24 | | methyl tert butyl ether | 0.806 | 0.823 | -2.1 | 107 | 0.00 | 2.60 |
| 25 | | acrylonitrile | | ----------NA---------- | | | | |
| 26 | | trans-1,2-dichloroethene | 0.302 | 0.311 | -3.0 | 109 | 0.00 | 2.62 |
| 27 | | hexane | 0.477 | 0.488 | -2.3 | 110 | 0.00 | 2.78 |
| 28 | | di-isopropyl ether | 1.005 | 1.013 | -0.8 | 106 | 0.00 | 2.88 |
| 29 | | 2-butanone | 0.052 | 0.055 | -5.8 | 105 | 0.00 | 3.19 |
| 30 | | 1,1-dichloroethane | 0.524 | 0.525 | -0.2 | 106 | 0.00 | 2.88 |
| 31 | | chloroprene | 0.496 | 0.548 | -10.5 | 112 | 0.00 | 2.92 |
| 32 | | vinyl acetate | 0.058 | 0.050 | 13.8 | 82 | 0.00 | 2.86 |
| 33 | | ethyl tert-butyl ether | 0.897 | 0.901 | -0.4 | 103 | 0.00 | 3.09 |
| 34 | | ethyl acetate | 0.079 | 0.084 | -6.3 | 105 | 0.00 | 3.21 |
| 35 | | 2,2-dichloropropane | 0.435 | 0.423 | 2.8 | 104 | 0.00 | 3.22 |
| 36 | | cis-1,2-dichloroethene | 0.326 | 0.328 | -0.6 | 107 | 0.00 | 3.21 |
| 37 | | methyl acrylate | 0.493 | 0.489 | 0.8 | 101 | 0.00 | 3.24 |
| 38 | | propionitrile | 0.075 | 0.068 | 9.3 | 96 | 0.00 | 3.23 |
| 39 | | tert-butyl formate | 0.196 | 0.112 | 42.9# | 56 | 0.00 | 3.43 |
| 40 | | bromochloromethane | 0.166 | 0.160 | 3.6 | 105 | 0.00 | 3.36 |
| 41 | | tetrahydrofuran | 0.167 | 0.163 | 2.4 | 104 | 0.00 | 3.37 |

# Initial Calibration Verification

**Job Number:** JD52514 **Sample:** V1X8636-ICV8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200572.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 42 | | chloroform | 0.541 | 0.540 | 0.2 | 110 | 0.00 | 3.41 |
| 43 | S | dibromofluoromethane (s) | 0.472 | 0.464 | 1.7 | 106 | 0.00 | 3.51 |
| 44 | | methacrylonitrile | 0.156 | 0.164 | -5.1 | 106 | 0.00 | 3.33 |
| 45 | | 1,1,1-trichloroethane | 0.517 | 0.526 | -1.7 | 107 | 0.00 | 3.53 |
| 46 | | cyclohexane | 0.473 | 0.475 | -0.4 | 107 | 0.00 | 3.58 |
| 47 | m | tert amyl alcohol | 0.027 | 0.024 | 11.1 | 99 | 0.00 | 3.72 |
| 48 | | 1,1-dichloropropene | 0.425 | 0.439 | -3.3 | 108 | 0.00 | 3.62 |
| 49 | | isobutyl alcohol | 0.007 | 0.006 | 14.3 | 101 | 0.00 | 3.81 |
| 50 | | carbon tetrachloride | 0.457 | 0.476 | -4.2 | 106 | 0.00 | 3.63 |
| 51 | | isopropyl acetate | 0.073 | 0.079 | -8.2 | 103 | 0.00 | 3.74 |
| 52 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 4.00 |
| 53 | S | 1,2-dichloroethane-d4 (s) | 0.382 | 0.373 | 2.4 | 105 | 0.00 | 3.73 |
| 54 | | iso-octane | 0.694 | 0.672 | 3.2 | 102 | 0.00 | 3.81 |
| 55 | | epichlorohydrin | 0.035 | 0.036 | -2.9 | 99 | 0.00 | 4.72 |
| 56 | | n-butyl alcohol | 0.011 | 0.012 | -9.1 | 101 | 0.00 | 4.06 |
| 57 | | benzene | 0.839 | 0.845 | -0.7 | 108 | 0.00 | 3.75 |
| 58 | | tert-amyl methyl ether | 0.553 | 0.569 | -2.9 | 101 | 0.00 | 3.81 |
| 59 | | heptane | 0.125 | 0.134 | -7.2 | 112 | 0.00 | 3.91 |
| 60 | | 1,2-dichloroethane | 0.316 | 0.301 | 4.7 | 104 | 0.00 | 3.78 |
| 61 | | trichloroethene | 0.261 | 0.278 | -6.5 | 109 | 0.00 | 4.16 |
| 62 | m | ethyl acrylate | 0.341 | 0.347 | -1.8 | 99 | 0.00 | 4.19 |
| 63 | | 2-nitropropane | 0.084 | 0.092 | -9.5 | 106 | 0.00 | 4.65 |
| 64 | | 2-chloroethyl vinyl ether | 0.145 | 0.142 | 2.1 | 95 | 0.00 | 4.68 |
| 65 | | methyl methacrylate | 0.068 | 0.077 | -13.2 | 109 | 0.00 | 4.34 |
| 66 | | 1,2-dichloropropane | 0.082 | 0.086 | -4.9 | 105 | 0.00 | 4.34 |
| 67 | | dibromomethane | 0.142 | 0.139 | 2.1 | 104 | 0.00 | 4.40 |
| 68 | | methylcyclohexane | 0.352 | 0.381 | -8.2 | 109 | 0.00 | 4.33 |
| 69 | | bromodichloromethane | 0.242 | 0.261 | -7.9 | 105 | 0.00 | 4.50 |
| 70 | | cis-1,3-dichloropropene | 0.281 | 0.304 | -8.2 | 103 | 0.00 | 4.80 |
| 71 | | 4-methyl-2-pentanone | 0.115 | 0.122 | -6.1 | 103 | 0.00 | 4.89 |
| 72 | | 3-methyl-1-butanol | 0.009 | 0.010 | -11.1 | 102 | 0.00 | 4.91 |
| 73 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 6.07 |
| 74 | S | toluene-d8 (s) | 1.196 | 1.184 | 1.0 | 105 | 0.00 | 5.00 |
| 75 | | toluene | 0.547 | 0.570 | -4.2 | 109 | 0.00 | 5.04 |
| 76 | | trans-1,3-dichloropropene | 0.274 | 0.300 | -9.5 | 103 | 0.00 | 5.20 |
| 77 | | ethyl methacrylate | 0.276 | 0.275 | 0.4 | 98 | 0.00 | 5.22 |
| 78 | | 1,1,2-trichloroethane | 0.166 | 0.172 | -3.6 | 104 | 0.00 | 5.34 |
| 79 | | tetrachloroethene | | ----------NA---------- | | | | |
| 80 | | 1,3-dichloropropane | 0.318 | 0.322 | -1.3 | 105 | 0.00 | 5.47 |
| 81 | | 2-hexanone | 0.129 | 0.133 | -3.1 | 103 | 0.00 | 5.49 |
| 82 | | butyl acetate | 0.183 | 0.187 | -2.2 | 105 | 0.00 | 5.57 |
| 83 | | dibromochloromethane | 0.218 | 0.250 | -14.7 | 105 | 0.00 | 5.63 |
| 84 | | 1,2-dibromoethane | 0.221 | 0.237 | -7.2 | 104 | 0.00 | 5.73 |
| 85 | m | n-butyl ether | 0.887 | 0.899 | -1.4 | 102 | 0.00 | 6.15 |
| 86 | | chlorobenzene | 0.621 | 0.632 | -1.8 | 106 | 0.00 | 6.10 |
| 87 | | 1,1,1,2-tetrachloroethane | 0.214 | 0.237 | -10.7 | 105 | 0.00 | 6.16 |
| 88 | | ethylbenzene | 1.049 | 1.079 | -2.9 | 108 | 0.00 | 6.16 |
| 89 | | m,p-xylene | 0.413 | 0.434 | -5.1 | 108 | 0.00 | 6.27 |
| 90 | | o-xylene | 0.784 | 0.825 | -5.2 | 108 | 0.00 | 6.57 |
| 91 | | styrene | 0.665 | 0.696 | -4.7 | 107 | 0.00 | 6.59 |
| 92 | | butyl acrylate | 0.450 | 0.473 | -5.1 | 100 | 0.00 | 6.51 |
| 93 | | n-amyl acetate | 0.150 | 0.157 | -4.7 | 100 | 0.00 | 6.69 |
| 94 | | bromoform | 0.145 | 0.170 | -17.2 | 103 | 0.00 | 6.74 |
| 95 | | isopropylbenzene | 1.022 | 1.089 | -6.6 | 108 | 0.00 | 6.86 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 96 | | cis-1,4-dichloro-2-butene | 50.000 | 43.628 | 12.7 | 95 | 0.00 | 6.91 |

# Initial Calibration Verification

**Job Number:** JD52514 **Sample:** V1X8636-ICV8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200572.D
**Project:** EPT, Ithaca, NY

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 97 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 7.88 |
| 98 | S | 4-bromofluorobenzene (s) | 0.868 | 0.853 | 1.7 | 104 | 0.00 | 7.01 |
| 99 | | bromobenzene | 0.549 | 0.559 | -1.8 | 104 | 0.00 | 7.13 |
| 100 | | 1,1,2,2-tetrachloroethane | 0.544 | 0.581 | -6.8 | 104 | 0.00 | 7.10 |
| 101 | | trans-1,4-dichloro-2-bute | 0.158 | 0.178 | -12.7 | 108 | 0.00 | 7.14 |
| 102 | | 1,2,3-trichloropropane | 0.179 | 0.184 | -2.8 | 102 | 0.00 | 7.15 |
| 103 | | n-propylbenzene | 2.270 | 2.372 | -4.5 | 107 | 0.00 | 7.19 |
| 104 | | 2-chlorotoluene | 0.504 | 0.524 | -4.0 | 107 | 0.00 | 7.27 |
| 105 | | 4-chlorotoluene | 1.322 | 1.356 | -2.6 | 106 | 0.00 | 7.36 |
| 106 | | 1,3,5-trimethylbenzene | 1.482 | 1.576 | -6.3 | 107 | 0.00 | 7.33 |
| 107 | | tert-butylbenzene | 1.442 | 1.555 | -7.8 | 110 | 0.00 | 7.57 |
| 108 | | 1,2,4-trimethylbenzene | 1.501 | 1.554 | -3.5 | 106 | 0.00 | 7.62 |
| 109 | | sec-butylbenzene | 1.983 | 2.127 | -7.3 | 108 | 0.00 | 7.73 |
| 110 | | 1,3-dichlorobenzene | 0.982 | 1.017 | -3.6 | 106 | 0.00 | 7.83 |
| 111 | | p-isopropyltoluene | 1.681 | 1.803 | -7.3 | 107 | 0.00 | 7.85 |
| 112 | | 1,4-dichlorobenzene | 1.012 | 1.015 | -0.3 | 104 | 0.00 | 7.90 |
| 113 | | 1,2-dichlorobenzene | 0.918 | 0.959 | -4.5 | 105 | 0.00 | 8.16 |
| 114 | | benzyl chloride | 0.812 | 0.842 | -3.7 | 93 | 0.00 | 7.98 |
| 115 | | n-butylbenzene | 0.739 | 0.793 | -7.3 | 107 | 0.00 | 8.13 |
| 116 | | 1,2-dibromo-3-chloropropa | 0.163 | 0.181 | -11.0 | 103 | 0.00 | 8.69 |
| 117 | | 1,3,5-trichlorobenzene | 0.590 | 0.608 | -3.1 | 104 | 0.00 | 8.81 |
| 118 | | hexachlorobutadiene | 0.210 | 0.228 | -8.6 | 110 | 0.00 | 9.30 |
| 119 | | naphthalene | 1.931 | 1.920 | 0.6 | 103 | 0.00 | 9.39 |
| 120 | | 1,2,4-trichlorobenzene | 0.514 | 0.537 | -4.5 | 106 | 0.00 | 9.22 |
| 121 | m | 1,2,3-trichlorobenzene | 0.501 | 0.517 | -3.2 | 104 | 0.00 | 9.52 |

| | | True | Calc. | % Drift | | | |
|---|---|---|---|---|---|---|---|
| 122 | hexachloroethane | 50.000 | 51.887 | -3.8 | 110 | 0.00 | 8.35 |

| | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|
| 123 | 2-methylnaphthalene | 0.943 | 1.044 | -10.7 | 103 | 0.00 | 10.11 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1X200562.D M1X8636.M Thu Sep 29 14:02:37 2022 GCMSX

# Initial Calibration Verification



**Job Number:** JD52514 **Sample:** V1X8636-ICV8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200574.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\VX8636\1X200574.D Vial: 15
Acq On : 29 Sep 2022 5:02 am Operator: PrashanS
Sample : ICV8636-50 Inst : ACC-VOA-M
Misc : MS62283,V1X8636,5,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M1X8636.M (RTE Integrator)
Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
Last Update : Thu Sep 29 10:06:17 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 97 | 0.00 | 2.44 |
| 2 | | ethanol | | ----------NA---------- | | | | |
| 3 | | tertiary butyl alcohol | | ----------NA---------- | | | | |
| 4 | | 1,4-dioxane | | ----------NA---------- | | | | |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 3.51 |
| 6 | | chlorodifluoromethane | 0.426 | 0.453 | -6.3 | 116 | 0.00 | 1.25 |
| 7 | | dichlorodifluoromethane | | ----------NA---------- | | | | |
| 8 | | chloromethane | | ----------NA---------- | | | | |
| 9 | | vinyl chloride | | ----------NA---------- | | | | |
| 10 | | bromomethane | | ----------NA---------- | | | | |
| 11 | | chloroethane | | ----------NA---------- | | | | |
| 12 | | trichlorofluoromethane | | ----------NA---------- | | | | |
| 13 | | 1,3-butadiene | | ----------NA---------- | | | | |
| 14 | | ethyl ether | | ----------NA---------- | | | | |
| 15 | | acrolein | | ----------NA---------- | | | | |
| 16 | | 1,1-dichloroethene | | ----------NA---------- | | | | |
| 17 | | freon 113 | | ----------NA---------- | | | | |
| 18 | | acetone | | ----------NA---------- | | | | |
| 19 | | acetonitrile | 0.066 | 0.059 | 10.6 | 99 | 0.00 | 2.35 |
| 20 | | iodomethane | | ----------NA---------- | | | | |
| 21 | | carbon disulfide | | ----------NA---------- | | | | |
| 22 | | methylene chloride | | ----------NA---------- | | | | |
| 23 | | methyl acetate | | ----------NA---------- | | | | |
| 24 | | methyl tert butyl ether | | ----------NA---------- | | | | |
| 25 | | acrylonitrile | 0.179 | 0.148 | 17.3 | 84 | 0.00 | 2.58 |
| 26 | | trans-1,2-dichloroethene | | ----------NA---------- | | | | |
| 27 | | hexane | | ----------NA---------- | | | | |
| 28 | | di-isopropyl ether | | ----------NA---------- | | | | |
| 29 | | 2-butanone | | ----------NA---------- | | | | |
| 30 | | 1,1-dichloroethane | | ----------NA---------- | | | | |
| 31 | | chloroprene | | ----------NA---------- | | | | |
| 32 | | vinyl acetate | | ----------NA---------- | | | | |
| 33 | | ethyl tert-butyl ether | | ----------NA---------- | | | | |
| 34 | | ethyl acetate | | ----------NA---------- | | | | |
| 35 | | 2,2-dichloropropane | | ----------NA---------- | | | | |
| 36 | | cis-1,2-dichloroethene | | ----------NA---------- | | | | |
| 37 | | methyl acrylate | | ----------NA---------- | | | | |
| 38 | | propionitrile | | ----------NA---------- | | | | |
| 39 | | tert-butyl formate | | ----------NA---------- | | | | |
| 40 | | bromochloromethate | | ----------NA---------- | | | | |
| 41 | | tetrahydrofuran | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52514 **Sample:** V1X8636-ICV8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200574.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 42 | | chloroform | | ----------NA---------- | | | | |
| 43 | S | dibromofluoromethane (s) | 0.472 | 0.457 | 3.2 | 102 | 0.00 | 3.51 |
| 44 | | methacrylonitrile | | ----------NA---------- | | | | |
| 45 | | 1,1,1-trichloroethane | | ----------NA---------- | | | | |
| 46 | | cyclohexane | | ----------NA---------- | | | | |
| 47 | m | tert amyl alcohol | | ----------NA---------- | | | | |
| 48 | | 1,1-dichloropropene | | ----------NA---------- | | | | |
| 49 | | isobutyl alcohol | | ----------NA---------- | | | | |
| 50 | | carbon tetrachloride | | ----------NA---------- | | | | |
| 51 | | isopropyl acetate | | ----------NA---------- | | | | |
| 52 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 100 | 0.00 | 4.00 |
| 53 | S | 1,2-dichloroethane-d4 (s) | 0.382 | 0.388 | -1.6 | 105 | 0.00 | 3.73 |
| 54 | | iso-octane | | ----------NA---------- | | | | |
| 55 | | epichlorohydrin | | ----------NA---------- | | | | |
| 56 | | n-butyl alcohol | | ----------NA---------- | | | | |
| 57 | | benzene | | ----------NA---------- | | | | |
| 58 | | tert-amyl methyl ether | | ----------NA---------- | | | | |
| 59 | | heptane | | ----------NA---------- | | | | |
| 60 | | 1,2-dichloroethane | | ----------NA---------- | | | | |
| 61 | | trichloroethene | | ----------NA---------- | | | | |
| 62 | m | ethyl acrylate | | ----------NA---------- | | | | |
| 63 | | 2-nitropropane | | ----------NA---------- | | | | |
| 64 | | 2-chloroethyl vinyl ether | | ----------NA---------- | | | | |
| 65 | | methyl methacrylate | | ----------NA---------- | | | | |
| 66 | | 1,2-dichloropropane | | ----------NA---------- | | | | |
| 67 | | dibromomethane | | ----------NA---------- | | | | |
| 68 | | methylcyclohexane | | ----------NA---------- | | | | |
| 69 | | bromodichloromethane | | ----------NA---------- | | | | |
| 70 | | cis-1,3-dichloropropene | | ----------NA---------- | | | | |
| 71 | | 4-methyl-2-pentanone | | ----------NA---------- | | | | |
| 72 | | 3-methyl-1-butanol | | ----------NA---------- | | | | |
| 73 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 6.07 |
| 74 | S | toluene-d8 (s) | 1.196 | 1.179 | 1.4 | 102 | 0.00 | 5.00 |
| 75 | | toluene | | ----------NA---------- | | | | |
| 76 | | trans-1,3-dichloropropene | | ----------NA---------- | | | | |
| 77 | | ethyl methacrylate | | ----------NA---------- | | | | |
| 78 | | 1,1,2-trichloroethane | | ----------NA---------- | | | | |
| 79 | | tetrachloroethene | 0.220 | 0.209 | 5.0 | 95 | 0.00 | 5.42 |
| 80 | | 1,3-dichloropropane | | ----------NA---------- | | | | |
| 81 | | 2-hexanone | | ----------NA---------- | | | | |
| 82 | | butyl acetate | | ----------NA---------- | | | | |
| 83 | | dibromochloromethane | | ----------NA---------- | | | | |
| 84 | | 1,2-dibromoethane | | ----------NA---------- | | | | |
| 85 | m | n-butyl ether | | ----------NA---------- | | | | |
| 86 | | chlorobenzene | | ----------NA---------- | | | | |
| 87 | | 1,1,1,2-tetrachloroethane | | ----------NA---------- | | | | |
| 88 | | ethylbenzene | | ----------NA---------- | | | | |
| 89 | | m,p-xylene | | ----------NA---------- | | | | |
| 90 | | o-xylene | | ----------NA---------- | | | | |
| 91 | | styrene | | ----------NA---------- | | | | |
| 92 | | butyl acrylate | | ----------NA---------- | | | | |
| 93 | | n-amyl acetate | | ----------NA---------- | | | | |
| 94 | | bromoform | | ----------NA---------- | | | | |
| 95 | | isopropylbenzene | | ----------NA---------- | | | | |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 96 | | cis-1,4-dichloro-2-butene | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52514 **Sample:** V1X8636-ICV8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200574.D
**Project:** EPT, Ithaca, NY

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 97 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 7.88 |
| 98 | S | 4-bromofluorobenzene (s) | 0.868 | 0.864 | 0.5 | 103 | 0.00 | 7.01 |
| 99 | | bromobenzene | | ----------NA---------- | | | | |
| 100 | | 1,1,2,2-tetrachloroethane | | ----------NA---------- | | | | |
| 101 | | trans-1,4-dichloro-2-bute | | ----------NA---------- | | | | |
| 102 | | 1,2,3-trichloropropane | | ----------NA---------- | | | | |
| 103 | | n-propylbenzene | | ----------NA---------- | | | | |
| 104 | | 2-chlorotoluene | | ----------NA---------- | | | | |
| 105 | | 4-chlorotoluene | | ----------NA---------- | | | | |
| 106 | | 1,3,5-trimethylbenzene | | ----------NA---------- | | | | |
| 107 | | tert-butylbenzene | | ----------NA---------- | | | | |
| 108 | | 1,2,4-trimethylbenzene | | ----------NA---------- | | | | |
| 109 | | sec-butylbenzene | | ----------NA---------- | | | | |
| 110 | | 1,3-dichlorobenzene | | ----------NA---------- | | | | |
| 111 | | p-isopropyltoluene | | ----------NA---------- | | | | |
| 112 | | 1,4-dichlorobenzene | | ----------NA---------- | | | | |
| 113 | | 1,2-dichlorobenzene | | ----------NA---------- | | | | |
| 114 | | benzyl chloride | | ----------NA---------- | | | | |
| 115 | | n-butylbenzene | | ----------NA---------- | | | | |
| 116 | | 1,2-dibromo-3-chloropropa | | ----------NA---------- | | | | |
| 117 | | 1,3,5-trichlorobenzene | | ----------NA---------- | | | | |
| 118 | | hexachlorobutadiene | | ----------NA---------- | | | | |
| 119 | | naphthalene | | ----------NA---------- | | | | |
| 120 | | 1,2,4-trichlorobenzene | | ----------NA---------- | | | | |
| 121 | m | 1,2,3-trichlorobenzene | | ----------NA---------- | | | | |

| | | | True | Calc. | % Drift |
|---|---|---|---|---|---|
| 122 | | hexachloroethane | | ----------NA---------- | |

| | | | AvgRF | CCRF | % Dev |
|---|---|---|---|---|---|
| 123 | | 2-methylnaphthalene | | ----------NA---------- | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1X200562.D M1X8636.M Thu Sep 29 14:01:52 2022 GCMSX

# Continuing Calibration Summary



**Job Number:** JD52514 **Sample:** V1X8639-CC8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200643.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\lo...-3\v1x8639\1x200643.d Vial: 6
Acq On : 30 Sep 2022 9:46 am Operator: taylors
Sample : cc8636-20 Inst : ACC-VOA-MSX
Misc : MS62564,V1X8639,5,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M1X8636.M (RTE Integrator)
Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
Last Update : Thu Sep 29 10:06:17 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 2.44 |
| 2 | | ethanol | 0.048 | 0.050 | -4.2 | 112 | 0.00 | 1.94 |
| 3 | | tertiary butyl alcohol | 0.756 | 0.675 | 10.7 | 94 | 0.00 | 2.49 |
| 4 | | 1,4-dioxane | 0.060 | 0.059 | 1.7 | 98 | 0.00 | 4.38 |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 108 | 0.00 | 3.51 |
| 6 | | chlorodifluoromethane | 0.426 | 0.316 | 25.8# | 82 | 0.00 | 1.25 |
| 7 | | dichlorodifluoromethane | 0.400 | 0.347 | 13.3 | 94 | 0.00 | 1.23 |
| 8 | | chloromethane | 0.418 | 0.343 | 17.9 | 92 | -0.01 | 1.36 |
| 9 | | vinyl chloride | 0.441 | 0.378 | 14.3 | 93 | 0.00 | 1.43 |
| 10 | | bromomethane | 0.061 | 0.064 | -4.9 | 107 | 0.00 | 1.63 |
| 11 | | chloroethane | 0.195 | 0.163 | 16.4 | 93 | 0.00 | 1.70 |
| 12 | | trichlorofluoromethane | 0.578 | 0.493 | 14.7 | 92 | 0.00 | 1.86 |
| 13 | | 1,3-butadiene | 0.352 | 0.388 | -10.2 | 113 | 0.00 | 1.45 |
| 14 | | ethyl ether | 0.147 | 0.122 | 17.0 | 89 | 0.00 | 2.02 |
| 15 | | acrolein | 0.083 | 0.073 | 12.0 | 100 | 0.00 | 2.10 |
| 16 | | 1,1-dichloroethene | 0.279 | 0.231 | 17.2 | 88 | 0.00 | 2.17 |
| 17 | | freon 113 | 0.340 | 0.287 | 15.6 | 91 | 0.00 | 2.16 |
| 18 | | acetone | 0.047 | 0.038 | 19.1 | 90 | 0.00 | 2.18 |
| 19 | | acetonitrile | 0.066 | 0.058 | 12.1 | 98 | 0.00 | 2.35 |
| 20 | | iodomethane | 0.128 | 0.094 | 26.6# | 98 | 0.00 | 2.26 |
| 21 | | carbon disulfide | 0.701 | 0.543 | 22.5# | 84 | 0.00 | 2.31 |
| 22 | | methylene chloride | 0.271 | 0.225 | 17.0 | 89 | 0.00 | 2.46 |
| 23 | | methyl acetate | 0.385 | 0.324 | 15.8 | 94 | 0.00 | 2.36 |
| 24 | | methyl tert butyl ether | 0.806 | 0.658 | 18.4 | 90 | 0.00 | 2.60 |
| 25 | | acrylonitrile | 0.179 | 0.156 | 12.8 | 95 | 0.00 | 2.58 |
| 26 | | trans-1,2-dichloroethene | 0.302 | 0.250 | 17.2 | 89 | 0.00 | 2.62 |
| 27 | | hexane | 0.477 | 0.411 | 13.8 | 97 | 0.00 | 2.77 |
| 28 | | di-isopropyl ether | 1.005 | 0.831 | 17.3 | 90 | 0.00 | 2.87 |
| 29 | | 2-butanone | 0.052 | 0.046 | 11.5 | 94 | 0.00 | 3.19 |
| 30 | | 1,1-dichloroethane | 0.524 | 0.429 | 18.1 | 88 | 0.00 | 2.87 |
| 31 | | chloroprene | 0.496 | 0.423 | 14.7 | 88 | 0.00 | 2.92 |
| 32 | | vinyl acetate | 0.058 | 0.052 | 10.3 | 97 | 0.00 | 2.86 |
| 33 | | ethyl tert-butyl ether | 0.897 | 0.750 | 16.4 | 90 | 0.00 | 3.09 |
| 34 | | ethyl acetate | 0.079 | 0.063 | 20.3# | 90 | 0.00 | 3.20 |
| 35 | | 2,2-dichloropropane | 0.435 | 0.381 | 12.4 | 97 | 0.00 | 3.22 |
| 36 | | cis-1,2-dichloroethene | 0.326 | 0.265 | 18.7 | 90 | 0.00 | 3.21 |
| 37 | | methyl acrylate | 0.493 | 0.437 | 11.4 | 94 | 0.00 | 3.24 |
| 38 | | propionitrile | 0.075 | 0.067 | 10.7 | 97 | 0.00 | 3.23 |
| 39 | | tert-butyl formate | 0.196 | 0.171 | 12.8 | 99 | 0.00 | 3.43 |
| 40 | | bromochloromethane | 0.166 | 0.135 | 18.7 | 91 | 0.00 | 3.36 |
| 41 | | tetrahydrofuran | 0.167 | 0.140 | 16.2 | 94 | 0.00 | 3.37 |

# Continuing Calibration Summary

**Job Number:** JD52514 **Sample:** V1X8639-CC8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200643.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 42 | | chloroform | 0.541 | 0.422 | 22.0# | 89 | 0.00 | 3.41 |
| 43 | S | dibromofluoromethane (s) | 0.472 | 0.450 | 4.7 | 102 | 0.00 | 3.51 |
| 44 | | methacrylonitrile | 0.156 | 0.138 | 11.5 | 93 | 0.00 | 3.33 |
| 45 | | 1,1,1-trichloroethane | 0.517 | 0.419 | 19.0 | 89 | 0.00 | 3.53 |
| 46 | | cyclohexane | 0.473 | 0.384 | 18.8 | 92 | 0.00 | 3.58 |
| 47 | m | tert amyl alcohol | 0.027 | 0.024 | 11.1 | 100 | 0.00 | 3.72 |
| 48 | | 1,1-dichloropropene | 0.425 | 0.351 | 17.4 | 89 | 0.00 | 3.62 |
| 49 | | isobutyl alcohol | 0.007 | 0.006 | 14.3 | 104 | 0.00 | 3.81 |
| 50 | | carbon tetrachloride | 0.457 | 0.355 | 22.3# | 85 | 0.00 | 3.62 |
| 51 | | isopropyl acetate | 0.073 | 0.064 | 12.3 | 93 | 0.00 | 3.74 |
| 52 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 4.00 |
| 53 | S | 1,2-dichloroethane-d4 (s) | 0.382 | 0.373 | 2.4 | 102 | 0.00 | 3.73 |
| 54 | | iso-octane | 0.694 | 0.584 | 15.9 | 93 | 0.00 | 3.81 |
| 55 | | epichlorohydrin | 0.035 | 0.033 | 5.7 | 99 | 0.00 | 4.72 |
| 56 | | n-butyl alcohol | 0.011 | 0.011 | 0.0 | 99 | 0.00 | 4.05 |
| 57 | | benzene | 0.839 | 0.690 | 17.8 | 90 | 0.00 | 3.75 |
| 58 | | tert-amyl methyl ether | 0.553 | 0.473 | 14.5 | 91 | 0.00 | 3.81 |
| 59 | | heptane | 0.125 | 0.115 | 8.0 | 97 | 0.00 | 3.91 |
| 60 | | 1,2-dichloroethane | 0.316 | 0.253 | 19.9 | 92 | 0.00 | 3.77 |
| 61 | | trichloroethene | 0.261 | 0.221 | 15.3 | 89 | 0.00 | 4.16 |
| 62 | m | ethyl acrylate | 0.341 | 0.311 | 8.8 | 97 | 0.00 | 4.19 |
| 63 | | 2-nitropropane | 0.084 | 0.070 | 16.7 | 95 | 0.00 | 4.64 |
| 64 | | 2-chloroethyl vinyl ether | 0.145 | 0.132 | 9.0 | 95 | 0.00 | 4.68 |
| 65 | | methyl methacrylate | 0.068 | 0.060 | 11.8 | 93 | 0.00 | 4.34 |
| 66 | | 1,2-dichloropropane | 0.082 | 0.069 | 15.9 | 88 | 0.00 | 4.33 |
| 67 | | dibromomethane | 0.142 | 0.115 | 19.0 | 90 | 0.00 | 4.40 |
| 68 | | methylcyclohexane | 0.352 | 0.297 | 15.6 | 91 | 0.00 | 4.32 |
| 69 | | bromodichloromethane | 0.242 | 0.199 | 17.8 | 87 | 0.00 | 4.50 |
| 70 | | cis-1,3-dichloropropene | 0.281 | 0.244 | 13.2 | 90 | 0.00 | 4.80 |
| 71 | | 4-methyl-2-pentanone | 0.115 | 0.104 | 9.6 | 95 | 0.00 | 4.89 |
| 72 | | 3-methyl-1-butanol | 0.009 | 0.008 | 11.1 | 96 | 0.00 | 4.91 |
| 73 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 6.07 |
| 74 | S | toluene-d8 (s) | 1.196 | 1.184 | 1.0 | 104 | 0.00 | 5.00 |
| 75 | | toluene | 0.547 | 0.468 | 14.4 | 90 | 0.00 | 5.04 |
| 76 | | trans-1,3-dichloropropene | 0.274 | 0.237 | 13.5 | 90 | 0.00 | 5.19 |
| 77 | | ethyl methacrylate | 0.276 | 0.242 | 12.3 | 92 | 0.00 | 5.21 |
| 78 | | 1,1,2-trichloroethane | 0.166 | 0.143 | 13.9 | 93 | 0.00 | 5.34 |
| 79 | | tetrachloroethene | 0.220 | 0.193 | 12.3 | 95 | 0.00 | 5.42 |
| 80 | | 1,3-dichloropropane | 0.318 | 0.270 | 15.1 | 93 | 0.00 | 5.47 |
| 81 | | 2-hexanone | 0.129 | 0.114 | 11.6 | 93 | 0.00 | 5.49 |
| 82 | | butyl acetate | 0.183 | 0.153 | 16.4 | 92 | 0.00 | 5.56 |
| 83 | | dibromochloromethane | 0.218 | 0.179 | 17.9 | 87 | 0.00 | 5.63 |
| 84 | | 1,2-dibromoethane | 0.221 | 0.199 | 10.0 | 94 | 0.00 | 5.73 |
| 85 | m | n-butyl ether | 0.887 | 0.744 | 16.1 | 89 | 0.00 | 6.15 |
| 86 | | chlorobenzene | 0.621 | 0.527 | 15.1 | 92 | 0.00 | 6.10 |
| 87 | | 1,1,1,2-tetrachloroethane | 0.214 | 0.179 | 16.4 | 88 | 0.00 | 6.16 |
| 88 | | ethylbenzene | 1.049 | 0.884 | 15.7 | 91 | 0.00 | 6.16 |
| 89 | | m,p-xylene | 0.413 | 0.348 | 15.7 | 89 | 0.00 | 6.27 |
| 90 | | o-xylene | 0.784 | 0.664 | 15.3 | 90 | 0.00 | 6.57 |
| 91 | | styrene | 0.665 | 0.563 | 15.3 | 90 | 0.00 | 6.59 |
| 92 | | butyl acrylate | 0.450 | 0.390 | 13.3 | 90 | 0.00 | 6.51 |
| 93 | | n-amyl acetate | 0.150 | 0.134 | 10.7 | 92 | 0.00 | 6.69 |
| 94 | | bromoform | 0.145 | 0.117 | 19.3 | 85 | 0.00 | 6.74 |
| 95 | | isopropylbenzene | 1.022 | 0.885 | 13.4 | 91 | 0.00 | 6.86 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 96 | | cis-1,4-dichloro-2-butene | 20.000 | 9.960 | 50.2# | 53 | 0.00 | 6.91 |

# Continuing Calibration Summary

**Job Number:** JD52514 **Sample:** V1X8639-CC8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200643.D
**Project:** EPT, Ithaca, NY

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 97 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 7.88 |
| 98 | S | 4-bromofluorobenzene (s) | 0.868 | 0.855 | 1.5 | 104 | 0.00 | 7.00 |
| 99 | | bromobenzene | 0.549 | 0.467 | 14.9 | 93 | 0.00 | 7.12 |
| 100 | | 1,1,2,2-tetrachloroethane | 0.544 | 0.512 | 5.9 | 97 | 0.00 | 7.10 |
| 101 | | trans-1,4-dichloro-2-bute | 0.158 | 0.087 | 44.9# | 60 | 0.00 | 7.13 |
| 102 | | 1,2,3-trichloropropane | 0.179 | 0.163 | 8.9 | 94 | 0.00 | 7.15 |
| 103 | | n-propylbenzene | 2.270 | 1.952 | 14.0 | 90 | 0.00 | 7.19 |
| 104 | | 2-chlorotoluene | 0.504 | 0.439 | 12.9 | 91 | 0.00 | 7.26 |
| 105 | | 4-chlorotoluene | 1.322 | 1.119 | 15.4 | 90 | 0.00 | 7.36 |
| 106 | | 1,3,5-trimethylbenzene | 1.482 | 1.291 | 12.9 | 90 | 0.00 | 7.33 |
| 107 | | tert-butylbenzene | 1.442 | 1.235 | 14.4 | 90 | 0.00 | 7.57 |
| 108 | | 1,2,4-trimethylbenzene | 1.501 | 1.265 | 15.7 | 89 | 0.00 | 7.61 |
| 109 | | sec-butylbenzene | 1.983 | 1.743 | 12.1 | 91 | 0.00 | 7.73 |
| 110 | | 1,3-dichlorobenzene | 0.982 | 0.848 | 13.6 | 92 | 0.00 | 7.83 |
| 111 | | p-isopropyltoluene | 1.681 | 1.482 | 11.8 | 91 | 0.00 | 7.85 |
| 112 | | 1,4-dichlorobenzene | 1.012 | 0.868 | 14.2 | 92 | 0.00 | 7.90 |
| 113 | | 1,2-dichlorobenzene | 0.918 | 0.805 | 12.3 | 91 | 0.00 | 8.16 |
| 114 | | benzyl chloride | 0.812 | 0.821 | -1.1 | 103 | 0.00 | 7.98 |
| 115 | | n-butylbenzene | 0.739 | 0.657 | 11.1 | 92 | 0.00 | 8.13 |
| 116 | | 1,2-dibromo-3-chloropropa | 0.163 | 0.144 | 11.7 | 92 | 0.00 | 8.69 |
| 117 | | 1,3,5-trichlorobenzene | 0.590 | 0.524 | 11.2 | 94 | 0.00 | 8.81 |
| 118 | | hexachlorobutadiene | 0.210 | 0.193 | 8.1 | 96 | 0.00 | 9.30 |
| 119 | | naphthalene | 1.931 | 1.711 | 11.4 | 97 | 0.00 | 9.38 |
| 120 | | 1,2,4-trichlorobenzene | 0.514 | 0.455 | 11.5 | 96 | 0.00 | 9.22 |
| 121 | m | 1,2,3-trichlorobenzene | 0.501 | 0.441 | 12.0 | 94 | 0.00 | 9.52 |

| | | | True | Calc. | % Drift | | | |
|---|---|---|---|---|---|---|---|---|
| 122 | | hexachloroethane | 20.000 | 13.672 | 31.6# | 80 | 0.00 | 8.35 |

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 123 | | 2-methylnaphthalene | 0.943 | 0.850 | 9.9 | 95 | 0.00 | 10.11 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1X200560.D M1X8636.M Mon Oct 03 06:32:49 2022

# Continuing Calibration Summary



**Job Number:** JD52514 **Sample:** V1X8640-CC8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200674.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\lu...22\v1x8640\1x200674.d Vial: 36
Acq On : 30 Sep 2022 9:48 pm Operator: taylors
Sample : CC8636-50 Inst : ACC-VOA-MSX
Misc : MS62505,V1X8640,5,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M1X8636.M (RTE Integrator)
Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
Last Update : Thu Sep 29 10:06:17 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 2.45 |
| 2 | | ethanol | 0.048 | 0.054 | -12.5 | 121 | 0.01 | 1.95 |
| 3 | | tertiary butyl alcohol | 0.756 | 0.752 | 0.5 | 102 | 0.00 | 2.50 |
| 4 | | 1,4-dioxane | 0.060 | 0.063 | -5.0 | 102 | 0.00 | 4.39 |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 108 | 0.00 | 3.51 |
| 6 | | chlorodifluoromethane | 0.426 | 0.251 | 41.1# | 66 | 0.00 | 1.26 |
| 7 | | dichlorodifluoromethane | 0.400 | 0.349 | 12.8 | 93 | 0.00 | 1.24 |
| 8 | | chloromethane | 0.418 | 0.351 | 16.0 | 91 | 0.00 | 1.37 |
| 9 | | vinyl chloride | 0.441 | 0.390 | 11.6 | 93 | 0.00 | 1.44 |
| 10 | | bromomethane | 0.061 | 0.044 | 27.9# | 68 | 0.00 | 1.64 |
| 11 | | chloroethane | 0.195 | 0.162 | 16.9 | 95 | 0.00 | 1.71 |
| 12 | | trichlorofluoromethane | 0.578 | 0.508 | 12.1 | 88 | 0.00 | 1.86 |
| 13 | | 1,3-butadiene | 0.352 | 0.349 | 0.9 | 106 | 0.00 | 1.46 |
| 14 | | ethyl ether | 0.147 | 0.111 | 24.5# | 80 | 0.00 | 2.03 |
| 15 | | acrolein | 0.083 | 0.072 | 13.3 | 88 | 0.00 | 2.11 |
| 16 | | 1,1-dichloroethene | 0.279 | 0.203 | 27.2# | 76 | 0.00 | 2.18 |
| 17 | | freon 113 | 0.340 | 0.255 | 25.0# | 80 | 0.00 | 2.17 |
| 18 | | acetone | 0.047 | 0.038 | 19.1 | 88 | 0.00 | 2.19 |
| 19 | | acetonitrile | 0.066 | 0.055 | 16.7 | 94 | 0.00 | 2.36 |
| 20 | | iodomethane | 0.128 | 0.099 | 22.7# | 55 | 0.00 | 2.27 |
| 21 | | carbon disulfide | 0.701 | 0.463 | 34.0# | 69 | 0.00 | 2.32 |
| 22 | | methylene chloride | 0.271 | 0.208 | 23.2# | 83 | 0.00 | 2.47 |
| 23 | | methyl acetate | 0.385 | 0.313 | 18.7 | 86 | 0.00 | 2.37 |
| 24 | | methyl tert butyl ether | 0.806 | 0.653 | 19.0 | 85 | 0.00 | 2.61 |
| 25 | | acrylonitrile | 0.179 | 0.160 | 10.6 | 93 | 0.00 | 2.59 |
| 26 | | trans-1,2-dichloroethene | 0.302 | 0.234 | 22.5# | 83 | 0.00 | 2.63 |
| 27 | | hexane | 0.477 | 0.347 | 27.3# | 79 | 0.00 | 2.78 |
| 28 | | di-isopropyl ether | 1.005 | 0.848 | 15.6 | 89 | 0.00 | 2.88 |
| 29 | | 2-butanone | 0.052 | 0.048 | 7.7 | 93 | 0.00 | 3.20 |
| 30 | | 1,1-dichloroethane | 0.524 | 0.416 | 20.6# | 85 | 0.00 | 2.88 |
| 31 | | chloroprene | 0.496 | 0.401 | 19.2 | 83 | 0.00 | 2.93 |
| 32 | | vinyl acetate | 0.058 | 0.052 | 10.3 | 87 | 0.00 | 2.87 |
| 33 | | ethyl tert-butyl ether | 0.897 | 0.764 | 14.8 | 89 | 0.00 | 3.10 |
| 34 | | ethyl acetate | 0.079 | 0.072 | 8.9 | 92 | 0.00 | 3.21 |
| 35 | | 2,2-dichloropropane | 0.435 | 0.335 | 23.0# | 83 | 0.00 | 3.23 |
| 36 | | cis-1,2-dichloroethene | 0.326 | 0.262 | 19.6 | 86 | 0.00 | 3.22 |
| 37 | | methyl acrylate | 0.493 | 0.447 | 9.3 | 93 | 0.00 | 3.25 |
| 38 | | propionitrile | 0.075 | 0.068 | 9.3 | 97 | 0.00 | 3.24 |
| 39 | | tert-butyl formate | 0.196 | 0.176 | 10.2 | 88 | 0.00 | 3.43 |
| 40 | | bromochloromethane | 0.166 | 0.135 | 18.7 | 89 | 0.00 | 3.37 |
| 41 | | tetrahydrofuran | 0.167 | 0.140 | 16.2 | 90 | 0.00 | 3.37 |

# Continuing Calibration Summary

**Job Number:** JD52514 **Sample:** V1X8640-CC8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200674.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 42 | | chloroform | 0.541 | 0.433 | 20.0 | 89 | 0.00 | 3.42 |
| 43 | S | dibromofluoromethane (s) | 0.472 | 0.443 | 6.1 | 102 | 0.00 | 3.52 |
| 44 | | methacrylonitrile | 0.156 | 0.145 | 7.1 | 94 | 0.00 | 3.34 |
| 45 | | 1,1,1-trichloroethane | 0.517 | 0.414 | 19.9 | 85 | 0.00 | 3.53 |
| 46 | | cyclohexane | 0.473 | 0.406 | 14.2 | 92 | 0.00 | 3.59 |
| 47 | m | tert amyl alcohol | 0.027 | 0.027 | 0.0 | 109 | 0.00 | 3.73 |
| 48 | | 1,1-dichloropropene | 0.425 | 0.344 | 19.1 | 86 | 0.00 | 3.63 |
| 49 | | isobutyl alcohol | 0.007 | 0.006 | 14.3 | 94 | 0.00 | 3.82 |
| 50 | | carbon tetrachloride | 0.457 | 0.361 | 21.0# | 81 | 0.00 | 3.63 |
| 51 | | isopropyl acetate | 0.073 | 0.071 | 2.7 | 94 | 0.00 | 3.75 |
| 52 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 4.01 |
| 53 | S | 1,2-dichloroethane-d4 (s) | 0.382 | 0.367 | 3.9 | 103 | 0.00 | 3.74 |
| 54 | | iso-octane | 0.694 | 0.562 | 19.0 | 85 | 0.00 | 3.82 |
| 55 | | epichlorohydrin | 0.035 | 0.035 | 0.0 | 97 | 0.00 | 4.73 |
| 56 | | n-butyl alcohol | 0.011 | 0.012 | -9.1 | 103 | 0.00 | 4.06 |
| 57 | | benzene | 0.839 | 0.690 | 17.8 | 88 | 0.00 | 3.76 |
| 58 | | tert-amyl methyl ether | 0.553 | 0.518 | 6.3 | 92 | 0.00 | 3.82 |
| 59 | | heptane | 0.125 | 0.102 | 18.4 | 85 | 0.00 | 3.92 |
| 60 | | 1,2-dichloroethane | 0.316 | 0.261 | 17.4 | 90 | 0.00 | 3.78 |
| 61 | | trichloroethene | 0.261 | 0.227 | 13.0 | 88 | 0.00 | 4.17 |
| 62 | m | ethyl acrylate | 0.341 | 0.345 | -1.2 | 98 | 0.00 | 4.20 |
| 63 | | 2-nitropropane | 0.084 | 0.083 | 1.2 | 94 | 0.00 | 4.65 |
| 64 | | 2-chloroethyl vinyl ether | 0.145 | 0.144 | 0.7 | 96 | 0.00 | 4.69 |
| 65 | | methyl methacrylate | 0.068 | 0.068 | 0.0 | 97 | 0.00 | 4.35 |
| 66 | | 1,2-dichloropropane | 0.082 | 0.076 | 7.3 | 93 | 0.00 | 4.34 |
| 67 | | dibromomethane | 0.142 | 0.123 | 13.4 | 92 | 0.00 | 4.40 |
| 68 | | methylcyclohexane | 0.352 | 0.297 | 15.6 | 85 | 0.00 | 4.33 |
| 69 | | bromodichloromethane | 0.242 | 0.228 | 5.8 | 91 | 0.00 | 4.51 |
| 70 | | cis-1,3-dichloropropene | 0.281 | 0.267 | 5.0 | 90 | 0.00 | 4.81 |
| 71 | | 4-methyl-2-pentanone | 0.115 | 0.119 | -3.5 | 101 | 0.00 | 4.89 |
| 72 | | 3-methyl-1-butanol | 0.009 | 0.010 | -11.1 | 104 | 0.00 | 4.92 |
| 73 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 106 | 0.01 | 6.08 |
| 74 | S | toluene-d8 (s) | 1.196 | 1.190 | 0.5 | 106 | 0.00 | 5.00 |
| 75 | | toluene | 0.547 | 0.491 | 10.2 | 94 | 0.00 | 5.05 |
| 76 | | trans-1,3-dichloropropene | 0.274 | 0.262 | 4.4 | 91 | 0.00 | 5.20 |
| 77 | | ethyl methacrylate | 0.276 | 0.274 | 0.7 | 98 | 0.00 | 5.23 |
| 78 | | 1,1,2-trichloroethane | 0.166 | 0.160 | 3.6 | 98 | 0.00 | 5.35 |
| 79 | | tetrachloroethene | 0.220 | 0.199 | 9.5 | 94 | 0.00 | 5.43 |
| 80 | | 1,3-dichloropropane | 0.318 | 0.293 | 7.9 | 96 | 0.00 | 5.48 |
| 81 | | 2-hexanone | 0.129 | 0.129 | 0.0 | 101 | 0.00 | 5.49 |
| 82 | | butyl acetate | 0.183 | 0.175 | 4.4 | 99 | 0.00 | 5.57 |
| 83 | | dibromochloromethane | 0.218 | 0.217 | 0.5 | 92 | 0.00 | 5.64 |
| 84 | | 1,2-dibromoethane | 0.221 | 0.216 | 2.3 | 95 | 0.00 | 5.74 |
| 85 | m | n-butyl ether | 0.887 | 0.818 | 7.8 | 94 | 0.00 | 6.15 |
| 86 | | chlorobenzene | 0.621 | 0.572 | 7.9 | 97 | 0.00 | 6.11 |
| 87 | | 1,1,1,2-tetrachloroethane | 0.214 | 0.212 | 0.9 | 95 | 0.00 | 6.17 |
| 88 | | ethylbenzene | 1.049 | 0.947 | 9.7 | 96 | 0.00 | 6.17 |
| 89 | | m,p-xylene | 0.413 | 0.373 | 9.7 | 94 | 0.00 | 6.27 |
| 90 | | o-xylene | 0.784 | 0.717 | 8.5 | 95 | 0.00 | 6.58 |
| 91 | | styrene | 0.665 | 0.620 | 6.8 | 96 | 0.00 | 6.59 |
| 92 | | butyl acrylate | 0.450 | 0.453 | -0.7 | 97 | 0.00 | 6.52 |
| 93 | | n-amyl acetate | 0.150 | 0.151 | -0.7 | 97 | 0.00 | 6.69 |
| 94 | | bromoform | 0.145 | 0.151 | -4.1 | 93 | 0.00 | 6.75 |
| 95 | | isopropylbenzene | 1.022 | 0.958 | 6.3 | 96 | 0.00 | 6.87 |
| | | | True | Calc. | % Drift | | | |
| 96 | | cis-1,4-dichloro-2-butene | 50.000 | 23.014 | 54.0# | 47 | 0.00 | 6.91 |

# Continuing Calibration Summary

**Job Number:** JD52514 **Sample:** V1X8640-CC8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200674.D
**Project:** EPT, Ithaca, NY

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 97 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 7.89 |
| 98 | S | 4-bromofluorobenzene (s) | 0.868 | 0.850 | 2.1 | 104 | 0.00 | 7.01 |
| 99 | | bromobenzene | 0.549 | 0.511 | 6.9 | 96 | 0.00 | 7.13 |
| 100 | | 1,1,2,2-tetrachloroethane | 0.544 | 0.576 | -5.9 | 103 | 0.00 | 7.11 |
| 101 | | trans-1,4-dichloro-2-bute | 0.158 | 0.089 | 43.7# | 54 | 0.00 | 7.14 |
| 102 | | 1,2,3-trichloropropane | 0.179 | 0.182 | -1.7 | 101 | 0.00 | 7.16 |
| 103 | | n-propylbenzene | 2.270 | 2.111 | 7.0 | 96 | 0.01 | 7.20 |
| 104 | | 2-chlorotoluene | 0.504 | 0.473 | 6.2 | 96 | 0.00 | 7.27 |
| 105 | | 4-chlorotoluene | 1.322 | 1.234 | 6.7 | 96 | 0.00 | 7.37 |
| 106 | | 1,3,5-trimethylbenzene | 1.482 | 1.423 | 4.0 | 97 | 0.00 | 7.33 |
| 107 | | tert-butylbenzene | 1.442 | 1.366 | 5.3 | 97 | 0.00 | 7.57 |
| 108 | | 1,2,4-trimethylbenzene | 1.501 | 1.425 | 5.1 | 98 | 0.00 | 7.62 |
| 109 | | sec-butylbenzene | 1.983 | 1.915 | 3.4 | 97 | 0.00 | 7.74 |
| 110 | | 1,3-dichlorobenzene | 0.982 | 0.928 | 5.5 | 97 | 0.00 | 7.84 |
| 111 | | p-isopropyltoluene | 1.681 | 1.635 | 2.7 | 98 | 0.00 | 7.85 |
| 112 | | 1,4-dichlorobenzene | 1.012 | 0.938 | 7.3 | 96 | 0.01 | 7.91 |
| 113 | | 1,2-dichlorobenzene | 0.918 | 0.897 | 2.3 | 99 | 0.00 | 8.16 |
| 114 | | benzyl chloride | 0.812 | 0.836 | -3.0 | 93 | 0.00 | 7.98 |
| 115 | | n-butylbenzene | 0.739 | 0.716 | 3.1 | 97 | 0.00 | 8.14 |
| 116 | | 1,2-dibromo-3-chloropropa | 0.163 | 0.171 | -4.9 | 98 | 0.00 | 8.69 |
| 117 | | 1,3,5-trichlorobenzene | 0.590 | 0.565 | 4.2 | 97 | 0.00 | 8.82 |
| 118 | | hexachlorobutadiene | 0.210 | 0.210 | 0.0 | 102 | 0.00 | 9.31 |
| 119 | | naphthalene | 1.931 | 1.908 | 1.2 | 103 | 0.00 | 9.39 |
| 120 | | 1,2,4-trichlorobenzene | 0.514 | 0.505 | 1.8 | 100 | 0.00 | 9.22 |
| 121 | m | 1,2,3-trichlorobenzene | 0.501 | 0.499 | 0.4 | 101 | 0.00 | 9.53 |

| | | True | Calc. | % Drift | | | |
|---|---|---|---|---|---|---|---|
| 122 | hexachloroethane | 50.000 | 41.446 | 17.1 | 88 | 0.01 | 8.36 |

| | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|
| 123 | 2-methylnaphthalene | 0.943 | 1.010 | -7.1 | 100 | 0.00 | 10.12 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1X200562.D M1X8636.M Tue Oct 04 01:57:49 2022

# Initial Calibration Summary



**Job Number:** JD52514 **Sample:** V2A9511-ICC9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A218788.D
**Project:** EPT, Ithaca, NY

Response Factor Report GCMS2A

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
Last Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

Calibration Files
4 =2A218785.D 8 =2A218786.D 0.5 =2A218782.D 50 =2A218788.D
100 =2A218789.D 1 =2A218783.D 200 =2A218790.D 20 =2A218787.D
2 =2A218784.D 0.2 =2A218781.D = =

| Compound | 4 | 8 | 0.5 | 50 | 100 | 1 | 200 | 20 | 2 | 0.2 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) I tert butyl alcohol-d9 | ----------ISTD---------- | | | | | | | | | | | |
| 2) ethanol | 0.120 | 0.117 | | 0.121 | 0.134 | 0.120 | 0.134 | 0.117 | 0.110 | | 0.122 | 6.95 |
| 3) tertiary butyl alcohol | 1.168 | 1.193 | | 1.217 | 1.273 | 1.227 | 1.234 | 1.165 | 1.350 | | 1.228 | 4.94 |
| 4) 1,4-dioxane | 0.086 | 0.089 | | 0.092 | 0.096 | 0.068 | 0.094 | 0.085 | 0.079 | | 0.086 | 10.61 |
| 5) I pentafluorobenzene | ----------ISTD---------- | | | | | | | | | | | |
| 6) chlorodifluoromethane | 0.751 | 0.738 | 0.643 | 0.665 | 0.665 | 0.679 | 0.618 | 0.653 | 0.725 | | 0.682 | 6.72 |
| 7) dichlorodifluoromethane | 0.722 | 0.699 | 0.565 | 0.680 | 0.664 | 0.696 | 0.637 | 0.671 | 0.710 | | 0.672 | 7.06 |
| 8) chloromethane | 0.915 | 0.867 | 0.962 | 0.820 | 0.809 | 0.904 | 0.736 | 0.812 | 0.996 | | 0.869 | 9.53 |
| 9) vinyl chloride | 0.704 | 0.677 | 0.606 | 0.658 | 0.651 | 0.694 | 0.610 | 0.641 | 0.738 | | 0.665 | 6.56 |
| 10) 1,3-butadiene | 0.640 | 0.614 | 0.689 | 0.550 | 0.542 | 0.589 | 0.499 | 0.569 | 0.636 | | 0.592 | 9.92 |
| 11) bromomethane | 0.407 | 0.372 | 0.436 | 0.376 | 0.387 | 0.397 | 0.373 | 0.361 | 0.417 | | 0.392 | 6.24 |
| 12) chloroethane | 0.333 | 0.307 | 0.288 | 0.315 | 0.324 | 0.311 | 0.317 | 0.305 | 0.331 | | 0.315 | 4.46 |
| 13) trichlorofluoromethane | 0.806 | 0.760 | 0.657 | 0.759 | 0.759 | 0.724 | 0.732 | 0.744 | 0.838 | 0.669 | 0.745 | 7.36 |
| 14) ethyl ether | 0.239 | 0.237 | 0.236 | 0.231 | 0.239 | 0.230 | 0.232 | 0.230 | 0.262 | | 0.237 | 4.16 |
| 15) acrolein | 0.087 | 0.108 | | 0.110 | 0.114 | 0.109 | 0.112 | 0.098 | 0.111 | | 0.106 | 8.58 |
| 16) freon 113 | 0.369 | 0.354 | 0.409 | 0.339 | 0.340 | 0.337 | 0.330 | 0.330 | 0.377 | | 0.354 | 7.53 |
| 17) 1,1-dichloroethene | 0.386 | 0.382 | 0.403 | 0.357 | 0.359 | 0.356 | 0.340 | 0.352 | 0.403 | | 0.371 | 6.25 |
| 18) acetone | 0.197 | 0.194 | 0.213 | 0.181 | 0.188 | 0.195 | 0.176 | 0.180 | 0.207 | | 0.192 | 6.53 |
| 19) acetonitrile | 0.085 | 0.079 | 0.077 | 0.077 | 0.080 | 0.079 | 0.076 | 0.076 | 0.085 | | 0.079 | 4.41 |
| 20) iodomethane | 0.766 | 0.750 | 0.789 | 0.701 | 0.707 | 0.684 | 0.667 | 0.692 | 0.746 | 0.738 | 0.724 | 5.45 |
| 21) carbon disulfide | 1.277 | 1.276 | 1.318 | 1.194 | 1.194 | 1.229 | 1.096 | 1.169 | 1.308 | | 1.229 | 5.92 |
| 22) methylene chloride | 0.451 | 0.431 | 0.543 | 0.412 | 0.422 | 0.433 | 0.398 | 0.402 | 0.464 | | 0.440 | 10.09 |
| 23) methyl acetate | | | | | | | | | | | | |

```
      0.490 0.513 0.470 0.476 0.493 0.432 0.463 0.468 0.508        0.479    5.17
24)  methyl tert butyl ether
      1.373 1.341 1.462 1.257 1.275 1.298 1.166 1.250 1.415 1.391  1.323    6.79
25)  trans-1,2-dichloroethene
      0.426 0.417 0.471 0.399 0.403 0.429 0.383 0.392 0.464        0.420    7.33
26)  hexane
      0.763 0.763 0.802 0.708 0.712 0.706 0.677 0.716 0.772 0.853  0.747    7.13
27)  di-isopropyl ether
      1.920 1.914 1.844 1.790 1.776 1.729 1.573 1.786 1.963 2.017  1.831    7.07
28)  ethyl tert-butyl ether
      1.665 1.636 1.598 1.563 1.557 1.555 1.404 1.536 1.672 1.752  1.594    5.96
29)  2-butanone
      0.052 0.051       0.053 0.057 0.045 0.054 0.050 0.053        0.052    6.22
30)  1,1-dichloroethane
      0.818 0.847 0.885 0.792 0.807 0.798 0.752 0.781 0.861 0.880  0.822    5.40
31)  chloroprene
      0.800 0.831 0.737 0.784 0.798 0.735 0.744 0.770 0.796 0.811  0.781    4.22
32)  acrylonitrile
      0.211 0.214       0.217 0.229 0.185 0.222 0.211 0.207        0.212    6.14
33)  vinyl acetate
      0.075 0.086       0.080 0.091 0.054 0.087 0.075 0.072        0.078   15.02
34)  ethyl acetate
      0.100 0.106       0.097 0.103 0.069 0.100 0.092 0.101        0.096   11.99
35)  2,2-dichloropropane
      0.672 0.676 0.758 0.624 0.629 0.644 0.589 0.597 0.659 0.720  0.657    8.04
36)  cis-1,2-dichloroethene
      0.469 0.479 0.567 0.444 0.451 0.453 0.428 0.430 0.498 0.405  0.462    9.86
37)  propionitrile
      0.081 0.081 0.076 0.079 0.082 0.075 0.075 0.077 0.086        0.079    4.93
38)  bromochloromethane
      0.311 0.323 0.301 0.307 0.310 0.302 0.294 0.297 0.322        0.307    3.27
39)  tetrahydrofuran
      0.235 0.216       0.194 0.204 0.262 0.193 0.197 0.254        0.219   12.58
40)  chloroform
      0.849 0.849 1.116 0.791 0.788 0.876 0.720 0.777 0.921        0.854   13.46
41)  tert-butyl formate  *This compound fails initial calibration criteria.*
      0.419 0.416 0.397 0.439 0.476 0.371 0.451 0.415 0.393 0.376  0.415    8.00
42)  isobutyl alcohol
      0.031 0.034       0.035 0.035 0.030 0.032 0.031 0.038        0.033    8.27
43)  dibromofluoromethane (s)
      0.473 0.472 0.469 0.475 0.465 0.473 0.470 0.470 0.474 0.465  0.471    0.75
44)  methacrylonitrile
      0.204 0.194       0.196 0.208 0.183 0.200 0.190 0.197        0.196    3.97
45)  1,1,1-trichloroethane
      0.786 0.754 0.792 0.728 0.734 0.731 0.676 0.717 0.787 0.712  0.742    5.09
46)  cyclohexane
      0.658 0.626 0.566 0.620 0.633 0.614 0.605 0.602 0.704 0.570  0.620    6.51
47)  1,1-dichloropropene
      0.612 0.619 0.649 0.571 0.583 0.543 0.539 0.563 0.630 0.663  0.597    7.32
48)  tert-amyl alcohol
      0.034 0.033       0.030 0.033 0.036 0.032 0.031 0.037        0.033    6.50
49)  carbon tetrachloride
      0.691 0.704 0.721 0.657 0.668 0.638 0.615 0.633 0.699 0.670  0.669    5.14

50) I   1,4-difluorobenzene   ----------------ISTD---------------------
51)  1,2-dichloroethane-d4 (s)
      0.464 0.465 0.464 0.466 0.465 0.463 0.463 0.465 0.467 0.467  0.465    0.29
52)  2,2,4-trimethylpentane
      1.456 1.485 1.387 1.354 1.365 1.393 1.208 1.388 1.467 1.549  1.405    6.59
53)  tert-amyl methyl ether
```

```
      1.069 1.049 1.090 0.994 0.998 1.015 0.883 0.984 1.072 1.144  1.030    6.99
54)  n-butyl alcohol
      0.012 0.013 0.012 0.013 0.014 0.011 0.013 0.013 0.015        0.013    9.53
55)  benzene
      1.247 1.259 1.223 1.169 1.162 1.186 1.016 1.167 1.234 1.200  1.186    5.82
56)  heptane
      0.288 0.300 0.286 0.288 0.292 0.284 0.279 0.282 0.309 0.257  0.287    4.76
57)  isopropyl acetate
      0.071 0.078       0.072 0.079 0.074 0.075 0.071 0.076        0.074    4.50
58)  1,2-dichloroethane
      0.552 0.570 0.651 0.525 0.535 0.569 0.486 0.522 0.607        0.557    8.86
59)  trichloroethene
      0.350 0.351 0.374 0.332 0.337 0.325 0.315 0.321 0.350 0.336  0.339    5.15
60)  ethyl acrylate
      0.549 0.557 0.538 0.555 0.578 0.483 0.524 0.542 0.522        0.539    5.04
61)  2-nitropropane
      0.130 0.141       0.146 0.157 0.135 0.146 0.136 0.141        0.142    5.88
62)  2-chloroethyl vinyl ether
      0.105 0.124       0.159 0.185       0.173 0.139 0.086        0.139   26.10
            ----- Linear regression -----  Coefficient =  0.9963
              Response Ratio = -0.02656 + 0.17526 *A

63)  methyl methacrylate
      0.085 0.091       0.089 0.096 0.065 0.091 0.084 0.081        0.085   11.07
64)  1,2-dichloropropane
      0.373 0.371 0.347 0.344 0.355 0.344 0.333 0.334 0.367        0.352    4.33
65)  methylcyclohexane
      0.584 0.569 0.521 0.540 0.553 0.561 0.517 0.539 0.575 0.591  0.555    4.57
66)  dibromomethane
      0.227 0.228 0.268 0.218 0.228 0.203 0.213 0.219 0.248 0.259  0.231    9.02
67)  bromodichloromethane
      0.483 0.498 0.512 0.471 0.485 0.455 0.442 0.456 0.474 0.509  0.478    4.90
68)  epichlorohydrin
      0.042 0.043       0.044 0.046 0.032 0.043 0.042 0.045        0.042   10.18
69)  cis-1,3-dichloropropene
      0.543 0.547 0.531 0.533 0.545 0.494 0.490 0.525 0.538 0.489  0.524    4.49
70)  4-methyl-2-pentanone
      0.167 0.172 0.167 0.167 0.173 0.153 0.156 0.162 0.179 0.165  0.166    4.75
71)  3-methyl-1-butanol
      0.011 0.011 0.008 0.011 0.012 0.008 0.011 0.010 0.010        0.010   12.91

72) I   chlorobenzene-d5      ----------------ISTD---------------------
73)  toluene-d8 (s)
      1.227 1.234 1.225 1.230 1.230 1.221 1.208 1.235 1.226 1.213  1.225    0.72
74)  toluene
      0.821 0.818 0.847 0.772 0.781 0.749 0.697 0.772 0.843 0.842  0.794    6.14
75)  trans-1,3-dichloropropene
      0.562 0.564 0.505 0.537 0.547 0.483 0.494 0.521 0.535 0.516  0.527    5.22
76)  ethyl methacrylate
      0.466 0.486 0.396 0.473 0.488 0.380 0.442 0.473 0.463        0.452    8.63
77)  1,1,2-trichloroethane
      0.285 0.286 0.285 0.272 0.277 0.262 0.254 0.271 0.279 0.260  0.273    4.19
78)  2-hexanone
      0.171 0.172 0.163 0.168 0.175 0.151 0.153 0.167 0.175        0.166    5.31
79)  tetrachloroethene
      0.405 0.405 0.461 0.376 0.383 0.387 0.354 0.370 0.432 0.383  0.395    7.99
80)  1,3-dichloropropane
      0.529 0.537 0.537 0.502 0.512 0.491 0.466 0.490 0.556 0.620  0.524    8.23
81)  butyl acetate
      0.277 0.294 0.266 0.290 0.306 0.277 0.280 0.291 0.287        0.285    4.10
```

# Initial Calibration Summary

**Job Number:** JD52514 **Sample:** V2A9511-ICC9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A218788.D
**Project:** EPT, Ithaca, NY

82) dibromochloromethane
0.408 0.412 0.395 0.405 0.420 0.371 0.386 0.395 0.392 0.402 0.399 3.54
83) 1,2-dibromoethane
0.356 0.357 0.327 0.341 0.351 0.315 0.322 0.332 0.352 0.329 0.338 4.50
84) n-butyl ether
1.704 1.719 1.673 1.569 1.475 1.517 1.145 1.589 1.695 1.653 1.574 10.92
85) chlorobenzene
0.923 0.930 0.930 0.858 0.844 0.849 0.728 0.872 0.917 0.811 0.866 7.41
86) 1,1,1,2-tetrachloroethane
0.355 0.366 0.380 0.345 0.358 0.331 0.334 0.340 0.353 0.321 0.348 5.11
87) ethylbenzene
1.624 1.614 1.615 1.444 1.352 1.475 1.064 1.474 1.625 1.606 1.489 11.92
88) m,p-xylene
0.609 0.613 0.609 0.569 0.571 0.555 0.500 0.570 0.616 0.576 0.579 6.13
89) o-xylene
1.324 1.305 1.265 1.188 1.148 1.180 0.934 1.196 1.290 1.325 1.216 9.73
90) styrene
0.982 1.029 0.918 0.965 0.961 0.854 0.812 0.962 1.013 0.924 0.942 7.17
91) n-amyl acetate
0.246 0.256 0.211 0.258 0.271 0.218 0.253 0.250 0.251 0.246 7.87
92) bromoform
0.290 0.292 0.283 0.307 0.321 0.245 0.295 0.285 0.286 0.263 0.287 7.37
93) butyl acrylate
0.891 0.914 0.725 0.896 0.898 0.699 0.754 0.892 0.877 0.838 10.24
94) isopropylbenzene
1.543 1.593 1.545 1.452 1.359 1.388 1.080 1.480 1.587 1.471 1.450 10.47
95) cis-1,4-dichloro-2-butene
0.145 0.156 0.144 0.175 0.186 0.113 0.173 0.163 0.148 0.156 13.80

96) I 1,4-dichlorobenzene-d ----------ISTD----------
97) 4-bromofluorobenzene (s)
0.926 0.938 0.933 0.918 0.912 0.935 0.922 0.924 0.918 0.922 0.925 0.91
98) bromobenzene
0.799 0.827 0.884 0.758 0.771 0.739 0.709 0.751 0.822 0.943 0.800 8.90
99) 1,1,2,2-tetrachloroethane
0.889 0.883 0.885 0.836 0.843 0.822 0.761 0.838 0.884 0.856 0.850 4.66
100) trans-1,4-dichloro-2-butene
0.281 0.290 0.295 0.318 0.224 0.300 0.285 0.271 0.283 9.78
101) 1,2,3-trichloropropane
0.238 0.222 0.219 0.215 0.226 0.200 0.211 0.214 0.224 0.219 4.83
102) n-propylbenzene
3.535 3.580 3.477 3.142 2.874 3.246 2.209 3.236 3.521 3.271 3.209 12.87
103) 2-chlorotoluene
0.719 0.733 0.669 0.686 0.697 0.654 0.647 0.671 0.701 0.807 0.699 6.74
104) 4-chlorotoluene
2.204 2.197 2.184 1.973 1.899 2.011 1.608 2.021 2.227 2.086 2.041 9.26
105) 1,3,5-trimethylbenzene
2.363 2.452 2.420 2.209 2.113 2.139 1.728 2.208 2.428 2.232 2.229 9.66
106) tert-butylbenzene
2.055 2.080 2.065 1.908 1.842 1.862 1.587 1.876 2.014 2.021 1.931 7.82
107) 1,2,4-trimethylbenzene
2.447 2.503 2.402 2.249 2.131 2.191 1.738 2.272 2.398 2.373 2.270 9.72
108) sec-butylbenzene
3.127 3.179 3.030 2.864 2.678 2.799 2.113 2.889 3.159 2.956 2.879 10.93
109) 1,3-dichlorobenzene
1.481 1.505 1.543 1.387 1.369 1.416 1.203 1.395 1.557 1.408 1.426 7.25
110) p-isopropyltoluene
2.609 2.680 2.558 2.430 2.301 2.363 1.866 2.449 2.580 2.718 2.455 10.07
111) benzyl chloride
1.409 1.496 1.344 1.496 1.507 1.203 1.306 1.424 1.399 1.398 7.21

# Initial Calibration Summary

**Job Number:** JD52514 **Sample:** V2A9511-ICC9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A218788.D
**Project:** EPT, Ithaca, NY

```
112)  1,2,3-trimethylbenzene
       2.465 2.503 2.650 2.286 2.164 2.242 1.744 2.301 2.522 2.539  2.341   11.13
113)  1,4-dichlorobenzene
       1.534 1.543 1.454 1.419 1.413 1.497 1.227 1.399 1.584 1.762  1.483    9.44
114)  1,2-dichlorobenzene
       1.452 1.500 1.429 1.384 1.356 1.388 1.173 1.381 1.484 1.395  1.394    6.51
115)  n-butylbenzene
       1.354 1.417 1.295 1.328 1.321 1.202 1.155 1.316 1.416 1.255  1.306    6.44
116)  1,2-dibromo-3-chloropropane
       0.167 0.206 0.157 0.198 0.208 0.154 0.195 0.188 0.188        0.184   10.96
117)  1,3,5-trichlorobenzene
       1.140 1.148 1.116 1.094 1.082 1.032 0.955 1.064 1.144 1.120  1.090    5.53
118)  1,2,4-trichlorobenzene
       0.983 1.000 0.897 0.981 0.989 0.848 0.881 0.962 0.968 0.862  0.937    6.21
119)  hexachlorobutadiene
       0.518 0.529 0.451 0.486 0.503 0.469 0.464 0.483 0.507 0.413  0.482    7.16
120)  naphthalene
       2.332 2.429 1.960 2.388 2.334 2.078 1.906 2.348 2.344 2.209  2.233    8.37
121)  1,2,3-trichlorobenzene
       0.922 0.936 0.859 0.924 0.936 0.789 0.843 0.900 0.949 0.765  0.882    7.41
122)  hexachloroethane
       0.396 0.448 0.353 0.445 0.463 0.331 0.436 0.415 0.395 0.337  0.402   11.91
123)  2-methylnaphthalene
       0.967 1.086       1.269 1.387       1.276 1.124 0.858        1.138   16.39

124)     pentafluorobenzene(a) ----------------ISTD---------------------
125)  vinyl bromide
                                                                     0.000   -1.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M2A9511.M         Mon Aug 01 15:19:14 2022   MS2A
```

# Initial Calibration Verification



**Job Number:** JD52514 **Sample:** V2A9511-ICV9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A218793.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDChem\1\DATA\V2A9511\2A218793.D Vial: 14
Acq On : 31 Jul 2022 11:03 pm Operator: PrashanS
Sample : ICV9511-50 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
Last Update : Mon Aug 01 15:13:00 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 7.25 |
| 2 | ethanol | 0.122 | 0.123 | -0.8 | 105 | 0.00 | 5.98 |
| 3 | tertiary butyl alcohol | 1.228 | 1.271 | -3.5 | 108 | 0.01 | 7.37 |
| 4 | 1,4-dioxane | 0.086 | 0.093 | -8.1 | 105 | 0.00 | 11.08 |
| 5 I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 9.51 |
| 6 | chlorodifluoromethane | | ----------NA---------- | | | | |
| 7 | dichlorodifluoromethane | 0.672 | 0.654 | 2.7 | 100 | 0.00 | 3.96 |
| 8 | chloromethane | 0.869 | 0.753 | 13.3 | 96 | 0.00 | 4.35 |
| 9 | vinyl chloride | 0.665 | 0.652 | 2.0 | 103 | 0.00 | 4.57 |
| 10 | 1,3-butadiene | 0.592 | 0.676 | -14.2 | 128 | 0.00 | 4.62 |
| 11 | bromomethane | 0.392 | 0.394 | -0.5 | 109 | 0.00 | 5.19 |
| 12 | chloroethane | 0.315 | 0.337 | -7.0 | 112 | 0.00 | 5.36 |
| 13 | trichlorofluoromethane | 0.745 | 0.773 | -3.8 | 106 | 0.00 | 5.79 |
| 14 | ethyl ether | 0.237 | 0.234 | 1.3 | 106 | 0.00 | 6.19 |
| 15 | acrolein | 0.106 | 0.109 | -2.8 | 104 | 0.00 | 6.41 |
| 16 | freon 113 | 0.354 | 0.342 | 3.4 | 105 | 0.00 | 6.61 |
| 17 | 1,1-dichloroethene | 0.371 | 0.364 | 1.9 | 106 | 0.00 | 6.60 |
| 18 | acetone | 0.192 | 0.181 | 5.7 | 104 | 0.00 | 6.61 |
| 19 | acetonitrile | 0.079 | 0.068 | 13.9 | 92 | 0.00 | 7.02 |
| 20 | iodomethane | 0.724 | 0.703 | 2.9 | 105 | 0.00 | 6.85 |
| 21 | carbon disulfide | 1.229 | 1.255 | -2.1 | 110 | 0.00 | 6.98 |
| 22 | methylene chloride | 0.440 | 0.430 | 2.3 | 109 | 0.00 | 7.31 |
| 23 | methyl acetate | 0.479 | 0.510 | -6.5 | 112 | 0.00 | 7.06 |
| 24 | methyl tert butyl ether | 1.323 | 1.315 | 0.6 | 109 | 0.00 | 7.66 |
| 25 | trans-1,2-dichloroethene | 0.420 | 0.410 | 2.4 | 107 | 0.00 | 7.69 |
| 26 | hexane | 0.747 | 0.816 | -9.2 | 120 | 0.00 | 8.04 |
| 27 | di-isopropyl ether | 1.831 | 1.763 | 3.7 | 103 | 0.00 | 8.25 |
| 28 | ethyl tert-butyl ether | 1.594 | 1.501 | 5.8 | 100 | 0.00 | 8.71 |
| 29 | 2-butanone | 0.052 | 0.056 | -7.7 | 111 | 0.00 | 8.90 |
| 30 | 1,1-dichloroethane | 0.822 | 0.799 | 2.8 | 105 | 0.00 | 8.26 |
| 31 | chloroprene | 0.781 | 0.851 | -9.0 | 113 | 0.00 | 8.36 |
| 32 | acrylonitrile | 0.212 | 0.221 | -4.2 | 106 | 0.00 | 7.59 |
| 33 | vinyl acetate | 0.078 | 0.075 | 3.8 | 97 | 0.00 | 8.20 |
| 34 | ethyl acetate | 0.096 | 0.099 | -3.1 | 106 | 0.00 | 8.92 |
| 35 | 2,2-dichloropropane | 0.657 | 0.592 | 9.9 | 99 | 0.00 | 9.00 |
| 36 | cis-1,2-dichloroethene | 0.462 | 0.447 | 3.2 | 105 | 0.00 | 8.97 |
| 37 | propionitrile | 0.079 | 0.077 | 2.5 | 102 | 0.00 | 8.98 |
| 38 | bromochloromethane | 0.307 | 0.305 | 0.7 | 104 | 0.00 | 9.26 |
| 39 | tetrahydrofuran | 0.219 | 0.194 | 11.4 | 104 | 0.00 | 9.28 |
| 40 | chloroform | 0.854 | 0.798 | 6.6 | 105 | 0.00 | 9.35 |
| 41 | tert-butyl formate | 0.415 | 0.265 | 36.1# | 63 | 0.00 | 9.39 |

# Initial Calibration Verification

**Job Number:** JD52514 **Sample:** V2A9511-ICV9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A218793.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 42 | | isobutyl alcohol | 0.033 | 0.031 | 6.1 | 94 | 0.00 | 9.75 |
| 43 | S | dibromofluoromethane (s) | 0.471 | 0.466 | 1.1 | 102 | 0.00 | 9.54 |
| 44 | | methacrylonitrile | 0.196 | 0.206 | -5.1 | 110 | 0.00 | 9.17 |
| 45 | | 1,1,1-trichloroethane | 0.742 | 0.738 | 0.5 | 106 | 0.00 | 9.60 |
| 46 | | cyclohexane | 0.620 | 0.638 | -2.9 | 107 | 0.00 | 9.72 |
| 47 | | 1,1-dichloropropene | 0.597 | 0.591 | 1.0 | 108 | 0.00 | 9.78 |
| 48 | | tert-amyl alcohol | 0.033 | 0.030 | 9.1 | 105 | 0.00 | 9.91 |
| 49 | | carbon tetrachloride | 0.669 | 0.674 | -0.7 | 107 | 0.00 | 9.80 |
| 50 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 10.44 |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.465 | 0.462 | 0.6 | 104 | 0.00 | 9.95 |
| 52 | | 2,2,4-trimethylpentane | 1.405 | 1.362 | 3.1 | 105 | 0.00 | 10.12 |
| 53 | | tert-amyl methyl ether | 1.030 | 0.929 | 9.8 | 98 | 0.00 | 10.11 |
| 54 | | n-butyl alcohol | 0.013 | 0.014 | -7.7 | 107 | 0.00 | 10.50 |
| 55 | | benzene | 1.186 | 1.184 | 0.2 | 106 | 0.00 | 10.02 |
| 56 | | heptane | 0.287 | 0.310 | -8.0 | 113 | 0.00 | 10.28 |
| 57 | | isopropyl acetate | 0.074 | 0.076 | -2.7 | 112 | 0.00 | 9.94 |
| 58 | | 1,2-dichloroethane | 0.557 | 0.532 | 4.5 | 106 | 0.00 | 10.04 |
| 59 | | trichloroethene | 0.339 | 0.337 | 0.6 | 106 | 0.00 | 10.74 |
| 60 | | ethyl acrylate | 0.539 | 0.551 | -2.2 | 104 | 0.00 | 10.74 |
| 61 | | 2-nitropropane | 0.142 | 0.149 | -4.9 | 107 | 0.00 | 11.50 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 62 | | 2-chloroethyl vinyl ether | 250.000 | 230.489 | 7.8 | 103 | 0.00 | 11.54 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 63 | | methyl methacrylate | 0.085 | 0.091 | -7.1 | 107 | 0.00 | 11.01 |
| 64 | | 1,2-dichloropropane | 0.352 | 0.346 | 1.7 | 105 | 0.00 | 11.03 |
| 65 | | methylcyclohexane | 0.555 | 0.566 | -2.0 | 110 | 0.00 | 11.04 |
| 66 | | dibromomethane | 0.231 | 0.223 | 3.5 | 107 | 0.00 | 11.14 |
| 67 | | bromodichloromethane | 0.478 | 0.477 | 0.2 | 106 | 0.00 | 11.30 |
| 68 | | epichlorohydrin | 0.042 | 0.042 | 0.0 | 100 | 0.00 | 11.62 |
| 69 | | cis-1,3-dichloropropene | 0.524 | 0.536 | -2.3 | 105 | 0.00 | 11.75 |
| 70 | | 4-methyl-2-pentanone | 0.166 | 0.167 | -0.6 | 105 | 0.00 | 11.86 |
| 71 | | 3-methyl-1-butanol | 0.010 | 0.011 | -10.0 | 108 | 0.00 | 11.87 |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 13.56 |
| 73 | S | toluene-d8 (s) | 1.225 | 1.239 | -1.1 | 104 | 0.00 | 12.06 |
| 74 | | toluene | 0.794 | 0.802 | -1.0 | 107 | 0.00 | 12.14 |
| 75 | | trans-1,3-dichloropropene | 0.527 | 0.544 | -3.2 | 104 | 0.00 | 12.32 |
| 76 | | ethyl methacrylate | 0.452 | 0.479 | -6.0 | 104 | 0.00 | 12.31 |
| 77 | | 1,1,2-trichloroethane | 0.273 | 0.277 | -1.5 | 105 | 0.00 | 12.54 |
| 78 | | 2-hexanone | 0.166 | 0.171 | -3.0 | 105 | 0.00 | 12.71 |
| 79 | | tetrachloroethene | 0.395 | 0.387 | 2.0 | 106 | 0.00 | 12.68 |
| 80 | | 1,3-dichloropropane | 0.524 | 0.510 | 2.7 | 104 | 0.00 | 12.72 |
| 81 | | butyl acetate | 0.285 | 0.313 | -9.8 | 111 | 0.00 | 12.79 |
| 82 | | dibromochloromethane | 0.399 | 0.417 | -4.5 | 106 | 0.00 | 12.96 |
| 83 | | 1,2-dibromoethane | 0.338 | 0.355 | -5.0 | 107 | 0.00 | 13.11 |
| 84 | | n-butyl ether | 1.574 | 1.571 | 0.2 | 103 | 0.00 | 13.56 |
| 85 | | chlorobenzene | 0.866 | 0.874 | -0.9 | 105 | 0.00 | 13.59 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.348 | 0.353 | -1.4 | 105 | 0.00 | 13.66 |
| 87 | | ethylbenzene | 1.489 | 1.480 | 0.6 | 105 | 0.00 | 13.66 |
| 88 | | m,p-xylene | 0.579 | 0.587 | -1.4 | 106 | 0.00 | 13.78 |
| 89 | | o-xylene | 1.216 | 1.216 | 0.0 | 105 | 0.00 | 14.18 |
| 90 | | styrene | 0.942 | 0.992 | -5.3 | 106 | 0.00 | 14.19 |
| 91 | | n-amyl acetate | 0.246 | 0.256 | -4.1 | 102 | 0.00 | 14.22 |
| 92 | | bromoform | 0.287 | 0.307 | -7.0 | 103 | 0.00 | 14.41 |
| 93 | | butyl acrylate | 0.838 | 0.930 | -11.0 | 107 | 0.00 | 14.01 |
| 94 | | isopropylbenzene | 1.450 | 1.466 | -1.1 | 104 | 0.00 | 14.53 |
| 95 | | cis-1,4-dichloro-2-butene | 0.156 | 0.168 | -7.7 | 99 | 0.00 | 14.56 |

# Initial Calibration Verification

**Job Number:** JD52514 **Sample:** V2A9511-ICV9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A218793.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 15.89 |
| 97 | S | 4-bromofluorobenzene (s) | 0.925 | 0.927 | -0.2 | 103 | 0.00 | 14.72 |
| 98 | | bromobenzene | 0.800 | 0.771 | 3.6 | 104 | 0.00 | 14.90 |
| 99 | | 1,1,2,2-tetrachloroethane | 0.850 | 0.842 | 0.9 | 103 | 0.00 | 14.80 |
| 100 | | trans-1,4-dichloro-2-bute | 0.283 | 0.311 | -9.9 | 108 | 0.00 | 14.83 |
| 101 | | 1,2,3-trichloropropane | 0.219 | 0.221 | -0.9 | 106 | 0.00 | 14.89 |
| 102 | | n-propylbenzene | 3.209 | 3.206 | 0.1 | 105 | 0.00 | 14.94 |
| 103 | | 2-chlorotoluene | 0.699 | 0.700 | -0.1 | 105 | 0.00 | 15.07 |
| 104 | | 4-chlorotoluene | 2.041 | 2.030 | 0.5 | 105 | 0.00 | 15.18 |
| 105 | | 1,3,5-trimethylbenzene | 2.229 | 2.245 | -0.7 | 104 | 0.00 | 15.10 |
| 106 | | tert-butylbenzene | 1.931 | 1.931 | 0.0 | 104 | 0.00 | 15.44 |
| 107 | | 1,2,4-trimethylbenzene | 2.270 | 2.272 | -0.1 | 104 | 0.00 | 15.49 |
| 108 | | sec-butylbenzene | 2.879 | 2.922 | -1.5 | 105 | 0.00 | 15.66 |
| 109 | | 1,3-dichlorobenzene | 1.426 | 1.418 | 0.6 | 105 | 0.00 | 15.82 |
| 110 | | p-isopropyltoluene | 2.455 | 2.473 | -0.7 | 104 | 0.00 | 15.79 |
| 111 | | benzyl chloride | 1.398 | 1.374 | 1.7 | 94 | 0.00 | 16.01 |
| 112 | | 1,2,3-trimethylbenzene | | ----------NA---------- | | | | |
| 113 | | 1,4-dichlorobenzene | 1.483 | 1.429 | 3.6 | 103 | 0.00 | 15.91 |
| 114 | | 1,2-dichlorobenzene | 1.394 | 1.387 | 0.5 | 103 | 0.00 | 16.28 |
| 115 | | n-butylbenzene | 1.306 | 1.360 | -4.1 | 105 | 0.00 | 16.19 |
| 116 | | 1,2-dibromo-3-chloropropa | 0.184 | 0.194 | -5.4 | 101 | 0.00 | 17.05 |
| 117 | | 1,3,5-trichlorobenzene | 1.090 | 1.117 | -2.5 | 105 | 0.00 | 17.24 |
| 118 | | 1,2,4-trichlorobenzene | 0.937 | 0.998 | -6.5 | 104 | 0.00 | 17.88 |
| 119 | | hexachlorobutadiene | 0.482 | 0.507 | -5.2 | 107 | 0.00 | 18.00 |
| 120 | | naphthalene | 2.233 | 2.405 | -7.7 | 103 | 0.00 | 18.17 |
| 121 | | 1,2,3-trichlorobenzene | 0.882 | 0.930 | -5.4 | 103 | 0.00 | 18.40 |
| 122 | | hexachloroethane | 0.402 | 0.449 | -11.7 | 104 | 0.00 | 16.58 |
| 123 | | 2-methylnaphthalene | 1.138 | 1.249 | -9.8 | 101 | 0.00 | 19.41 |
| 124 | | pentafluorobenzene(a) | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 9.51 |
| 125 | | vinyl bromide | | ----------NA---------- | | | | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A218788.D M2A9511.M Mon Aug 01 15:19:15 2022 MS2A

# Initial Calibration Verification



**Job Number:** JD52514 **Sample:** V2A9511-ICV9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A218794.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\V2A9511\2A218794.D Vial: 15
Acq On : 31 Jul 2022 11:31 pm Operator: PrashanS
Sample : ICV9511-50 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
Last Update : Mon Aug 01 15:13:00 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 7.25 |
| 2 | ethanol | | ----------NA---------- | | | | |
| 3 | tertiary butyl alcohol | | ----------NA---------- | | | | |
| 4 | 1,4-dioxane | | ----------NA---------- | | | | |
| 5 I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 9.51 |
| 6 | chlorodifluoromethane | 0.682 | 0.809 | -18.6 | 126 | 0.00 | 3.99 |
| 7 | dichlorodifluoromethane | | ----------NA---------- | | | | |
| 8 | chloromethane | | ----------NA---------- | | | | |
| 9 | vinyl chloride | | ----------NA---------- | | | | |
| 10 | 1,3-butadiene | | ----------NA---------- | | | | |
| 11 | bromomethane | | ----------NA---------- | | | | |
| 12 | chloroethane | | ----------NA---------- | | | | |
| 13 | trichlorofluoromethane | | ----------NA---------- | | | | |
| 14 | ethyl ether | | ----------NA---------- | | | | |
| 15 | acrolein | | ----------NA---------- | | | | |
| 16 | freon 113 | | ----------NA---------- | | | | |
| 17 | 1,1-dichloroethene | | ----------NA---------- | | | | |
| 18 | acetone | | ----------NA---------- | | | | |
| 19 | acetonitrile | 0.079 | 0.072 | 8.9 | 96 | 0.00 | 7.02 |
| 20 | iodomethane | | ----------NA---------- | | | | |
| 21 | carbon disulfide | | ----------NA---------- | | | | |
| 22 | methylene chloride | | ----------NA---------- | | | | |
| 23 | methyl acetate | | ----------NA---------- | | | | |
| 24 | methyl tert butyl ether | | ----------NA---------- | | | | |
| 25 | trans-1,2-dichloroethene | | ----------NA---------- | | | | |
| 26 | hexane | | ----------NA---------- | | | | |
| 27 | di-isopropyl ether | | ----------NA---------- | | | | |
| 28 | ethyl tert-butyl ether | | ----------NA---------- | | | | |
| 29 | 2-butanone | | ----------NA---------- | | | | |
| 30 | 1,1-dichloroethane | | ----------NA---------- | | | | |
| 31 | chloroprene | | ----------NA---------- | | | | |
| 32 | acrylonitrile | 0.212 | 0.173 | 18.4 | 82 | 0.00 | 7.59 |
| 33 | vinyl acetate | | ----------NA---------- | | | | |
| 34 | ethyl acetate | | ----------NA---------- | | | | |
| 35 | 2,2-dichloropropane | | ----------NA---------- | | | | |
| 36 | cis-1,2-dichloroethene | | ----------NA---------- | | | | |
| 37 | propionitrile | | ----------NA---------- | | | | |
| 38 | bromochloromethane | | ----------NA---------- | | | | |
| 39 | tetrahydrofuran | | ----------NA---------- | | | | |
| 40 | chloroform | | ----------NA---------- | | | | |
| 41 | tert-butyl formate | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52514 **Sample:** V2A9511-ICV9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A218794.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 42 | | isobutyl alcohol | | ----------NA---------- | | | | | |
| 43 | S | dibromofluoromethane (s) | 0.471 | 0.471 | 0.0 | 102 | 0.00 | 9.54 | |
| 44 | | methacrylonitrile | | ----------NA---------- | | | | | |
| 45 | | 1,1,1-trichloroethane | | ----------NA---------- | | | | | |
| 46 | | cyclohexane | | ----------NA---------- | | | | | |
| 47 | | 1,1-dichloropropene | | ----------NA---------- | | | | | |
| 48 | | tert-amyl alcohol | | ----------NA---------- | | | | | |
| 49 | | carbon tetrachloride | | ----------NA---------- | | | | | |
| 50 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 10.44 | |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.465 | 0.471 | -1.3 | 105 | 0.00 | 9.95 | |
| 52 | | 2,2,4-trimethylpentane | | ----------NA---------- | | | | | |
| 53 | | tert-amyl methyl ether | | ----------NA---------- | | | | | |
| 54 | | n-butyl alcohol | | ----------NA---------- | | | | | |
| 55 | | benzene | | ----------NA---------- | | | | | |
| 56 | | heptane | | ----------NA---------- | | | | | |
| 57 | | isopropyl acetate | | ----------NA---------- | | | | | |
| 58 | | 1,2-dichloroethane | | ----------NA---------- | | | | | |
| 59 | | trichloroethene | | ----------NA---------- | | | | | |
| 60 | | ethyl acrylate | | ----------NA---------- | | | | | |
| 61 | | 2-nitropropane | | ----------NA---------- | | | | | |
| | | ---------- | True | Calc. | % Drift | ---------- | | | |
| 62 | | 2-chloroethyl vinyl ether | | ----------NA---------- | | | | | |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | | |
| 63 | | methyl methacrylate | | ----------NA---------- | | | | | |
| 64 | | 1,2-dichloropropane | | ----------NA---------- | | | | | |
| 65 | | methylcyclohexane | | ----------NA---------- | | | | | |
| 66 | | dibromomethane | | ----------NA---------- | | | | | |
| 67 | | bromodichloromethane | | ----------NA---------- | | | | | |
| 68 | | epichlorohydrin | | ----------NA---------- | | | | | |
| 69 | | cis-1,3-dichloropropene | | ----------NA---------- | | | | | |
| 70 | | 4-methyl-2-pentanone | | ----------NA---------- | | | | | |
| 71 | | 3-methyl-1-butanol | | ----------NA---------- | | | | | |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 13.56 | |
| 73 | S | toluene-d8 (s) | 1.225 | 1.230 | -0.4 | 102 | 0.00 | 12.06 | |
| 74 | | toluene | | ----------NA---------- | | | | | |
| 75 | | trans-1,3-dichloropropene | | ----------NA---------- | | | | | |
| 76 | | ethyl methacrylate | | ----------NA---------- | | | | | |
| 77 | | 1,1,2-trichloroethane | | ----------NA---------- | | | | | |
| 78 | | 2-hexanone | | ----------NA---------- | | | | | |
| 79 | | tetrachloroethene | 0.395 | 0.356 | 9.9 | 96 | 0.00 | 12.68 | |
| 80 | | 1,3-dichloropropane | | ----------NA---------- | | | | | |
| 81 | | butyl acetate | | ----------NA---------- | | | | | |
| 82 | | dibromochloromethane | | ----------NA---------- | | | | | |
| 83 | | 1,2-dibromoethane | | ----------NA---------- | | | | | |
| 84 | | n-butyl ether | | ----------NA---------- | | | | | |
| 85 | | chlorobenzene | | ----------NA---------- | | | | | |
| 86 | | 1,1,1,2-tetrachloroethane | | ----------NA---------- | | | | | |
| 87 | | ethylbenzene | | ----------NA---------- | | | | | |
| 88 | | m,p-xylene | | ----------NA---------- | | | | | |
| 89 | | o-xylene | | ----------NA---------- | | | | | |
| 90 | | styrene | | ----------NA---------- | | | | | |
| 91 | | n-amyl acetate | | ----------NA---------- | | | | | |
| 92 | | bromoform | | ----------NA---------- | | | | | |
| 93 | | butyl acrylate | | ----------NA---------- | | | | | |
| 94 | | isopropylbenzene | | ----------NA---------- | | | | | |
| 95 | | cis-1,4-dichloro-2-butene | | ----------NA---------- | | | | | |

# Initial Calibration Verification

**Job Number:** JD52514 **Sample:** V2A9511-ICV9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A218794.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 100 | 0.00 | 15.89 | |
| 97 | S | 4-bromofluorobenzene (s) | 0.925 | 0.936 | -1.2 | 102 | 0.00 | 14.72 | |
| 98 | | bromobenzene | | ----------NA---------- | | | | | |
| 99 | | 1,1,2,2-tetrachloroethane | | ----------NA---------- | | | | | |
| 100 | | trans-1,4-dichloro-2-bute | | ----------NA---------- | | | | | |
| 101 | | 1,2,3-trichloropropane | | ----------NA---------- | | | | | |
| 102 | | n-propylbenzene | | ----------NA---------- | | | | | |
| 103 | | 2-chlorotoluene | | ----------NA---------- | | | | | |
| 104 | | 4-chlorotoluene | | ----------NA---------- | | | | | |
| 105 | | 1,3,5-trimethylbenzene | | ----------NA---------- | | | | | |
| 106 | | tert-butylbenzene | | ----------NA---------- | | | | | |
| 107 | | 1,2,4-trimethylbenzene | | ----------NA---------- | | | | | |
| 108 | | sec-butylbenzene | | ----------NA---------- | | | | | |
| 109 | | 1,3-dichlorobenzene | | ----------NA---------- | | | | | |
| 110 | | p-isopropyltoluene | | ----------NA---------- | | | | | |
| 111 | | benzyl chloride | | ----------NA---------- | | | | | |
| 112 | | 1,2,3-trimethylbenzene | 2.341 | 2.446 | -4.5 | 108 | 0.00 | 15.91 | |
| 113 | | 1,4-dichlorobenzene | | ----------NA---------- | | | | | |
| 114 | | 1,2-dichlorobenzene | | ----------NA---------- | | | | | |
| 115 | | n-butylbenzene | | ----------NA---------- | | | | | |
| 116 | | 1,2-dibromo-3-chloropropa | | ----------NA---------- | | | | | |
| 117 | | 1,3,5-trichlorobenzene | | ----------NA---------- | | | | | |
| 118 | | 1,2,4-trichlorobenzene | | ----------NA---------- | | | | | |
| 119 | | hexachlorobutadiene | | ----------NA---------- | | | | | |
| 120 | | naphthalene | | ----------NA---------- | | | | | |
| 121 | | 1,2,3-trichlorobenzene | | ----------NA---------- | | | | | |
| 122 | | hexachloroethane | | ----------NA---------- | | | | | |
| 123 | | 2-methylnaphthalene | | ----------NA---------- | | | | | |
| 124 | | pentafluorobenzene(a) | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 9.51 | |
| 125 | | vinyl bromide | | ----------NA---------- | | | | | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A218788.D M2A9511.M Tue Aug 02 08:48:28 2022 MS2A

# Continuing Calibration Summary



**Job Number:** JD52514 **Sample:** V2A9583-CC9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220438.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\lo...-5\v2a9583\2a220438.d Vial: 2
Acq On : 30 Sep 2022 9:16 am Operator: nicoleh
Sample : cc9511-20 Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
Last Update : Mon Sep 13 11:48:20 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 116 | 0.00 | 7.25 |
| 2 | ethanol | 0.122 | 0.087 | 28.7# | 86 | 0.00 | 5.97 |
| 3 | tertiary butyl alcohol | 1.228 | 1.169 | 4.8 | 116 | 0.00 | 7.37 |
| 4 | 1,4-dioxane | 0.086 | 0.074 | 14.0 | 101 | 0.00 | 11.08 |
| 5 I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 9.51 |
| 6 | chlorodifluoromethane | 0.682 | 0.391 | 42.7# | 61 | 0.00 | 4.00 |
| 7 | dichlorodifluoromethane | 0.672 | 0.672 | 0.0 | 102 | 0.00 | 3.96 |
| 8 | chloromethane | 0.869 | 0.844 | 2.9 | 106 | 0.00 | 4.35 |
| 9 | vinyl chloride | 0.665 | 0.694 | -4.4 | 110 | 0.00 | 4.58 |
| 10 | 1,3-butadiene | 0.592 | 0.318 | 46.3# | 57 | 0.00 | 4.62 |
| 11 | bromomethane | 0.392 | 0.467 | -19.1 | 131 | 0.00 | 5.20 |
| 12 | chloroethane | 0.315 | 0.402 | -27.6# | 134 | 0.00 | 5.36 |
| 13 | trichlorofluoromethane | 0.745 | 0.848 | -13.8 | 116 | 0.00 | 5.79 |
| 14 | ethyl ether | 0.237 | 0.261 | -10.1 | 115 | 0.00 | 6.19 |
| 15 | acrolein | 0.106 | 0.121 | -14.2 | 125 | 0.00 | 6.42 |
| 16 | freon 113 | 0.354 | 0.373 | -5.4 | 115 | 0.00 | 6.62 |
| 17 | 1,1-dichloroethene | 0.371 | 0.366 | 1.3 | 106 | 0.00 | 6.61 |
| 18 | acetone | 0.192 | 0.189 | 1.6 | 107 | 0.00 | 6.61 |
| 19 | acetonitrile | 0.079 | 0.083 | -5.1 | 111 | 0.01 | 7.03 |
| 20 | iodomethane | 0.724 | 0.740 | -2.2 | 109 | 0.00 | 6.85 |
| 21 | carbon disulfide | 1.229 | 1.233 | -0.3 | 107 | 0.00 | 6.99 |
| 22 | methylene chloride | 0.440 | 0.482 | -9.5 | 122 | 0.00 | 7.30 |
| 23 | methyl acetate | 0.479 | 0.497 | -3.8 | 108 | 0.00 | 7.06 |
| 24 | methyl tert butyl ether | 1.323 | 1.454 | -9.9 | 118 | 0.00 | 7.66 |
| 25 | trans-1,2-dichloroethene | 0.420 | 0.451 | -7.4 | 117 | 0.00 | 7.69 |
| 26 | hexane | 0.747 | 0.807 | -8.0 | 114 | 0.00 | 8.04 |
| 27 | di-isopropyl ether | 1.831 | 2.143 | -17.0 | 122 | 0.00 | 8.25 |
| 28 | ethyl tert-butyl ether | 1.594 | 1.884 | -18.2 | 125 | 0.00 | 8.71 |
| 29 | 2-butanone | 0.052 | 0.061 | -17.3 | 122 | 0.00 | 8.91 |
| 30 | 1,1-dichloroethane | 0.822 | 0.913 | -11.1 | 119 | 0.00 | 8.26 |
| 31 | chloroprene | 0.781 | 0.806 | -3.2 | 106 | 0.00 | 8.36 |
| 32 | acrylonitrile | 0.212 | 0.232 | -9.4 | 112 | 0.00 | 7.60 |
| 33 | vinyl acetate | 0.078 | 0.102 | -30.8# | 138 | 0.00 | 8.20 |
| 34 | ethyl acetate | 0.096 | 0.109 | -13.5 | 120 | 0.00 | 8.92 |
| 35 | 2,2-dichloropropane | 0.657 | 0.756 | -15.1 | 129 | 0.00 | 9.00 |
| 36 | cis-1,2-dichloroethene | 0.462 | 0.534 | -15.6 | 126 | 0.00 | 8.97 |
| 37 | propionitrile | 0.079 | 0.093 | -17.7 | 122 | 0.00 | 8.98 |
| 38 | bromochloromethane | 0.307 | 0.350 | -14.0 | 120 | 0.00 | 9.26 |
| 39 | tetrahydrofuran | 0.219 | 0.211 | 3.7 | 109 | 0.00 | 9.29 |
| 40 | chloroform | 0.854 | 0.906 | -6.1 | 118 | 0.00 | 9.35 |
| 41 | tert-butyl formate | 0.415 | 0.463 | -11.6 | 113 | 0.00 | 9.39 |

# Continuing Calibration Summary

**Job Number:** JD52514 **Sample:** V2A9583-CC9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220438.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 42 | | isobutyl alcohol | 0.033 | 0.033 | 0.0 | 109 | 0.00 | 9.75 |
| 43 | S | dibromofluoromethane (s) | 0.471 | 0.517 | -9.8 | 112 | 0.00 | 9.54 |
| 44 | | methacrylonitrile | 0.196 | 0.231 | -17.9 | 124 | 0.00 | 9.18 |
| 45 | | 1,1,1-trichloroethane | 0.742 | 0.783 | -5.5 | 111 | 0.00 | 9.61 |
| 46 | | cyclohexane | 0.620 | 0.795 | -28.2# | 134 | 0.00 | 9.72 |
| 47 | | 1,1-dichloropropene | 0.597 | 0.656 | -9.9 | 118 | 0.00 | 9.78 |
| 48 | | tert-amyl alcohol | 0.033 | 0.034 | -3.0 | 111 | 0.00 | 9.91 |
| 49 | | carbon tetrachloride | 0.669 | 0.697 | -4.2 | 112 | 0.00 | 9.80 |
| 50 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 117 | 0.00 | 10.44 |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.465 | 0.381 | 18.1 | 96 | 0.00 | 9.96 |
| 52 | | 2,2,4-trimethylpentane | 1.405 | 1.342 | 4.5 | 113 | 0.00 | 10.12 |
| 53 | | tert-amyl methyl ether | 1.030 | 1.056 | -2.5 | 126 | 0.00 | 10.11 |
| 54 | | n-butyl alcohol | 0.013 | 0.013 | 0.0 | 114 | 0.00 | 10.50 |
| 55 | | benzene | 1.186 | 1.239 | -4.5 | 125 | 0.00 | 10.02 |
| 56 | | heptane | 0.287 | 0.247 | 13.9 | 103 | 0.00 | 10.28 |
| 57 | | isopropyl acetate | 0.074 | 0.075 | -1.4 | 124 | 0.00 | 9.95 |
| 58 | | 1,2-dichloroethane | 0.557 | 0.531 | 4.7 | 119 | 0.00 | 10.05 |
| 59 | | trichloroethene | 0.339 | 0.337 | 0.6 | 123 | 0.00 | 10.75 |
| 60 | | ethyl acrylate | 0.539 | 0.556 | -3.2 | 120 | 0.00 | 10.74 |
| 61 | | 2-nitropropane | 0.142 | 0.108 | 23.9# | 93 | 0.00 | 11.50 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 62 | | 2-chloroethyl vinyl ether | 100.000 | 36.849 | 63.2# | 43 | 0.00 | 11.54 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 63 | | methyl methacrylate | 0.085 | 0.090 | -5.9 | 126 | 0.00 | 11.01 |
| 64 | | 1,2-dichloropropane | 0.352 | 0.372 | -5.7 | 131 | 0.00 | 11.04 |
| 65 | | methylcyclohexane | 0.555 | 0.521 | 6.1 | 113 | 0.00 | 11.05 |
| 66 | | dibromomethane | 0.231 | 0.227 | 1.7 | 122 | 0.00 | 11.14 |
| 67 | | bromodichloromethane | 0.478 | 0.469 | 1.9 | 121 | 0.00 | 11.30 |
| 68 | | epichlorohydrin | 0.042 | 0.040 | 4.8 | 113 | 0.00 | 11.62 |
| 69 | | cis-1,3-dichloropropene | 0.524 | 0.562 | -7.3 | 126 | 0.00 | 11.75 |
| 70 | | 4-methyl-2-pentanone | 0.166 | 0.166 | 0.0 | 120 | 0.00 | 11.86 |
| 71 | | 3-methyl-1-butanol | 0.010 | 0.010 | 0.0 | 111 | 0.01 | 11.88 |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 124 | 0.00 | 13.56 |
| 73 | S | toluene-d8 (s) | 1.225 | 1.145 | 6.5 | 115 | 0.00 | 12.06 |
| 74 | | toluene | 0.794 | 0.762 | 4.0 | 123 | 0.00 | 12.14 |
| 75 | | trans-1,3-dichloropropene | 0.527 | 0.507 | 3.8 | 121 | 0.00 | 12.32 |
| 76 | | ethyl methacrylate | 0.452 | 0.458 | -1.3 | 120 | 0.00 | 12.32 |
| 77 | | 1,1,2-trichloroethane | 0.273 | 0.264 | 3.3 | 121 | 0.00 | 12.54 |
| 78 | | 2-hexanone | 0.166 | 0.153 | 7.8 | 114 | 0.00 | 12.71 |
| 79 | | tetrachloroethene | 0.395 | 0.373 | 5.6 | 125 | 0.00 | 12.69 |
| 80 | | 1,3-dichloropropane | 0.524 | 0.490 | 6.5 | 124 | 0.00 | 12.72 |
| 81 | | butyl acetate | 0.285 | 0.271 | 4.9 | 116 | 0.00 | 12.79 |
| 82 | | dibromochloromethane | 0.399 | 0.368 | 7.8 | 116 | 0.00 | 12.96 |
| 83 | | 1,2-dibromoethane | 0.338 | 0.315 | 6.8 | 118 | 0.00 | 13.11 |
| 84 | | n-butyl ether | 1.574 | 1.422 | 9.7 | 111 | 0.00 | 13.56 |
| 85 | | chlorobenzene | 0.866 | 0.835 | 3.6 | 119 | 0.00 | 13.60 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.348 | 0.322 | 7.5 | 118 | 0.00 | 13.66 |
| 87 | | ethylbenzene | 1.489 | 1.382 | 7.2 | 117 | 0.00 | 13.66 |
| 88 | | m,p-xylene | 0.579 | 0.515 | 11.1 | 112 | 0.00 | 13.78 |
| 89 | | o-xylene | 1.216 | 1.132 | 6.9 | 118 | 0.00 | 14.18 |
| 90 | | styrene | 0.942 | 0.846 | 10.2 | 110 | 0.00 | 14.19 |
| 91 | | n-amyl acetate | 0.246 | 0.214 | 13.0 | 107 | 0.00 | 14.22 |
| 92 | | bromoform | 0.287 | 0.262 | 8.7 | 114 | 0.00 | 14.41 |
| 93 | | butyl acrylate | 0.838 | 0.768 | 8.4 | 107 | 0.00 | 14.01 |
| 94 | | isopropylbenzene | 1.450 | 1.278 | 11.9 | 108 | 0.00 | 14.53 |
| 95 | | cis-1,4-dichloro-2-butene | 0.156 | 0.098 | 37.2# | 75 | 0.00 | 14.57 |

# Continuing Calibration Summary

**Job Number:** JD52514 **Sample:** V2A9583-CC9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220438.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 115 | 0.00 | 15.89 |
| 97 | S | 4-bromofluorobenzene (s) | 0.925 | 0.988 | -6.8 | 123 | 0.00 | 14.72 |
| 98 | | bromobenzene | 0.800 | 0.740 | 7.5 | 114 | 0.00 | 14.91 |
| 99 | | 1,1,2,2-tetrachloroethane | 0.850 | 0.778 | 8.5 | 107 | 0.00 | 14.81 |
| 100 | | trans-1,4-dichloro-2-bute | 0.283 | 0.177 | 37.5# | 72 | 0.00 | 14.84 |
| 101 | | 1,2,3-trichloropropane | 0.219 | 0.190 | 13.2 | 103 | 0.00 | 14.89 |
| 102 | | n-propylbenzene | 3.209 | 3.078 | 4.1 | 110 | 0.00 | 14.94 |
| 103 | | 2-chlorotoluene | 0.699 | 0.644 | 7.9 | 111 | 0.00 | 15.07 |
| 104 | | 4-chlorotoluene | 2.041 | 1.934 | 5.2 | 110 | 0.00 | 15.18 |
| 105 | | 1,3,5-trimethylbenzene | 2.229 | 2.075 | 6.9 | 108 | 0.00 | 15.10 |
| 106 | | tert-butylbenzene | 1.931 | 1.762 | 8.8 | 108 | 0.00 | 15.44 |
| 107 | | 1,2,4-trimethylbenzene | 2.270 | 2.089 | 8.0 | 106 | 0.00 | 15.49 |
| 108 | | sec-butylbenzene | 2.879 | 2.577 | 10.5 | 103 | 0.00 | 15.66 |
| 109 | | 1,3-dichlorobenzene | 1.426 | 1.315 | 7.8 | 109 | 0.00 | 15.82 |
| 110 | | p-isopropyltoluene | 2.455 | 2.206 | 10.1 | 104 | 0.00 | 15.79 |
| 111 | | benzyl chloride | 1.398 | 1.217 | 12.9 | 98 | 0.00 | 16.01 |
| 112 | | 1,2,3-trimethylbenzene | 2.341 | 2.145 | 8.4 | 107 | 0.00 | 15.91 |
| 113 | | 1,4-dichlorobenzene | 1.483 | 1.297 | 12.5 | 107 | 0.00 | 15.91 |
| 114 | | 1,2-dichlorobenzene | 1.394 | 1.270 | 8.9 | 106 | 0.00 | 16.28 |
| 115 | | n-butylbenzene | 1.306 | 1.101 | 15.7 | 96 | 0.00 | 16.20 |
| 116 | | 1,2-dibromo-3-chloropropa | 0.184 | 0.148 | 19.6 | 91 | 0.00 | 17.05 |
| 117 | | 1,3,5-trichlorobenzene | 1.090 | 0.983 | 9.8 | 106 | 0.00 | 17.24 |
| 118 | | 1,2,4-trichlorobenzene | 0.937 | 0.803 | 14.3 | 96 | 0.00 | 17.88 |
| 119 | | hexachlorobutadiene | 0.482 | 0.426 | 11.6 | 102 | 0.00 | 18.00 |
| 120 | | naphthalene | 2.233 | 1.473 | 34.0# | 72 | 0.00 | 18.17 |
| 121 | | 1,2,3-trichlorobenzene | 0.882 | 0.676 | 23.4# | 86 | 0.00 | 18.40 |
| 122 | | hexachloroethane | 0.402 | 0.312 | 22.4# | 86 | 0.00 | 16.58 |
| 123 | | 2-methylnaphthalene | 1.138 | 0.277 | 75.7# | 28# | 0.00 | 19.40 |
| 124 | | pentafluorobenzene(a) | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 9.51 |
| 125 | | vinyl bromide | ----------NA---------- | | | | | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A218787.D M2A9511.M Tue Oct 04 20:09:35 2022

# Initial Calibration Summary



**Job Number:** JD52514 **Sample:** V4D5341-ICC5341
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 4D120255.D
**Project:** EPT, Ithaca, NY

Response Factor Report MS4D

Method : C:\MSDCHEM\1\METHODS\M4D5341.M (RTE Integrator)
Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

Calibration Files
1 =4D120250.D 0.5 =4D120249.D 100 =4D120256.D 50 =4D120255.D
20 =4D120254.D 200 =4D120257.D 4 =4D120252.D 2 =4D120251.D
8 =4D120253.D 0.2 =4D120248.D = =

| Compound | 1 | 0.5 | 100 | 50 | 20 | 200 | 4 | 2 | 8 | 0.2 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 ----------ISTD---------- | | | | | | | | | | | | |
| 2) tertiary butyl alcohol | 1.356 | 1.392 | 1.456 | 1.420 | 1.408 | 1.435 | 1.429 | 1.519 | 1.414 | 1.463 | 1.429 | 3.08 |
| 3) ethanol | 0.129 | 0.111 | 0.149 | 0.148 | 0.140 | 0.145 | 0.137 | 0.142 | 0.141 | | 0.138 | 8.49 |
| 4) 1,4-dioxane | 0.124 | 0.105 | 0.130 | 0.129 | 0.127 | 0.126 | 0.128 | 0.135 | 0.130 | | 0.126 | 6.68 |
| 5) I pentafluorobenzene ----------ISTD---------- | | | | | | | | | | | | |
| 6) chlorodifluoromethane | 0.524 | 0.541 | 0.584 | 0.554 | 0.527 | 0.573 | 0.556 | 0.575 | 0.531 | 0.533 | 0.550 | 3.98 |
| 7) dichlorodifluoromethane | 0.584 | 0.597 | 0.717 | 0.669 | 0.627 | 0.705 | 0.648 | 0.615 | 0.634 | 0.596 | 0.639 | 7.14 |
| 8) chloromethane | 0.529 | 0.624 | 0.546 | 0.525 | 0.499 | 0.523 | 0.548 | 0.545 | 0.528 | | 0.541 | 6.40 |
| 9) vinyl chloride | 0.520 | 0.517 | 0.560 | 0.531 | 0.515 | 0.526 | 0.531 | 0.529 | 0.526 | 0.551 | 0.531 | 2.71 |
| 10) 1,3-butadiene | 0.465 | 0.481 | 0.485 | 0.494 | 0.476 | 0.443 | 0.508 | 0.532 | 0.488 | 0.465 | 0.484 | 5.08 |
| 11) bromomethane | 0.345 | 0.374 | 0.317 | 0.280 | 0.263 | 0.300 | 0.330 | 0.354 | 0.303 | | 0.318 | 11.31 |
| 12) chloroethane | 0.255 | 0.258 | 0.306 | 0.289 | 0.273 | 0.295 | 0.287 | 0.281 | 0.278 | 0.267 | 0.279 | 5.77 |
| 13) trichlorofluoromethane | 0.716 | 0.690 | 0.838 | 0.792 | 0.757 | 0.820 | 0.783 | 0.760 | 0.765 | 0.588 | 0.751 | 9.61 |
| 14) ethyl ether | 0.199 | | 0.243 | 0.230 | 0.217 | 0.239 | 0.224 | 0.221 | 0.226 | | 0.225 | 6.06 |
| 15) acrolein | | | 0.102 | 0.101 | 0.087 | 0.105 | 0.082 | | 0.091 | | 0.095 | 9.99 |
| 16) freon 113 | 0.313 | 0.334 | 0.377 | 0.365 | 0.356 | 0.365 | 0.370 | 0.370 | 0.351 | | 0.356 | 5.73 |
| 17) 1,1-dichloroethene | 0.407 | 0.419 | 0.381 | 0.366 | 0.362 | 0.366 | 0.388 | 0.427 | 0.378 | 0.448 | 0.394 | 7.48 |
| 18) acetone | 0.029 | | 0.053 | 0.053 | 0.050 | 0.051 | 0.044 | 0.045 | 0.045 | | 0.046 | 16.91 |
| 19) acetonitrile | 0.073 | 0.081 | 0.080 | 0.081 | 0.076 | 0.079 | 0.079 | 0.086 | 0.078 | | 0.079 | 4.44 |
| 20) iodomethane *This compound fails EPA 624.1 Initial Calibration criteria* | | | 0.725 | 0.682 | 0.607 | 0.675 | 0.370 | 0.270 | 0.477 | | 0.544 | 32.09 |
| ----- Linear regression ----- Coefficient = 0.9980 | | | | | | | | | | | | |
| Response Ratio = -0.02222 + 0.69609 *A | | | | | | | | | | | | |
| 21) carbon disulfide | 1.020 | 1.095 | 1.103 | 1.068 | 1.057 | 1.097 | 1.098 | 1.141 | 1.073 | 1.295 | 1.105 | 6.72 |

# Initial Calibration Summary

**Job Number:** JD52514 **Sample:** V4D5341-ICC5341
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 4D120255.D
**Project:** EPT, Ithaca, NY

22) methylene chloride
0.407 0.417 0.429 0.411 0.405 0.419 0.430 0.453 0.417 0.441 0.423 3.65
23) methyl acetate
0.428 0.419 0.379 0.430 0.364 0.347 0.374 0.392 8.60
24) methyl tert butyl ether
1.166 1.170 1.287 1.221 1.188 1.263 1.253 1.305 1.225 1.195 1.227 3.95
25) trans-1,2-dichloroethene
0.426 0.504 0.414 0.401 0.400 0.399 0.426 0.459 0.407 0.507 0.434 9.56
26) di-isopropyl ether
1.234 1.248 1.329 1.295 1.275 1.277 1.334 1.385 1.313 1.324 1.301 3.45
27) 2-butanone
0.054 0.072 0.072 0.067 0.073 0.067 0.064 0.067 0.067 9.16
28) 1,1-dichloroethane
0.687 0.693 0.756 0.726 0.709 0.738 0.751 0.783 0.725 0.620 0.719 6.31
29) chloroprene
0.476 0.479 0.597 0.571 0.549 0.588 0.566 0.559 0.555 0.486 0.543 8.36
30) acrylonitrile
0.191 0.184 0.167 0.194 0.155 0.180 0.150 0.174 9.91
31) hexane
0.229 0.223 0.269 0.257 0.246 0.268 0.259 0.262 0.248 0.250 0.251 6.10
32) vinyl acetate
0.101 0.096 0.089 0.100 0.082 0.080 0.085 0.090 9.50
33) ethyl tert-butyl ether
1.188 1.156 1.367 1.291 1.251 1.357 1.287 1.331 1.266 1.203 1.270 5.64
34) ethyl acetate
0.070 0.068 0.064 0.070 0.058 0.056 0.064 0.065 8.65
35) 2,2-dichloropropane
0.620 0.659 0.635 0.620 0.612 0.617 0.655 0.695 0.630 0.699 0.644 4.97
36) cis-1,2-dichloroethene
0.455 0.559 0.461 0.448 0.450 0.449 0.479 0.515 0.457 0.538 0.481 8.60
37) methyl acrylate
0.394 0.476 0.468 0.451 0.473 0.471 0.383 0.454 0.446 8.22
38) propionitrile
0.076 0.072 0.084 0.086 0.082 0.081 0.084 0.084 0.082 0.081 5.61
39) bromochloromethane
0.227 0.216 0.255 0.246 0.246 0.248 0.254 0.263 0.252 0.245 5.99
40) tetrahydrofuran
0.085 0.086 0.080 0.084 0.089 0.107 0.086 0.088 9.90
41) chloroform
0.562 0.670 0.522 0.501 0.495 0.513 0.543 0.585 0.512 0.545 10.21
42) t-butyl formate *This compound fails Initial Calibration criteria*
0.332 0.402 0.377 0.358 0.409 0.363 0.374 0.363 0.372 6.59
43) dibromofluoromethane (s)
0.477 0.477 0.470 0.470 0.471 0.472 0.476 0.476 0.475 0.474 0.474 0.58
44) methacrylonitrile
0.178 0.215 0.208 0.198 0.216 0.204 0.203 0.198 0.203 5.86
45) 1,1,1-trichloroethane
0.654 0.676 0.734 0.698 0.673 0.728 0.721 0.743 0.680 0.641 0.695 5.09
46) cyclohexane
0.526 0.522 0.575 0.555 0.539 0.555 0.568 0.547 0.547 0.477 0.541 5.14
47) 1,1-dichloropropene
0.491 0.518 0.561 0.540 0.531 0.544 0.568 0.594 0.537 0.550 0.544 5.18
48) isobutyl alcohol
0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 4.90
49) carbon tetrachloride
0.621 0.642 0.683 0.658 0.645 0.669 0.678 0.705 0.663 0.633 0.660 3.80
50) tert amyl alcohol
0.028 0.029 0.029 0.030 0.027 0.029 0.030 0.029 0.028 0.029 3.19

51) I 1,4-difluorobenzene ----------ISTD----------

# Initial Calibration Summary

**Job Number:** JD52514 **Sample:** V4D5341-ICC5341
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 4D120255.D
**Project:** EPT, Ithaca, NY

52) 1,2-dichloroethane-d4 (s)
0.382 0.383 0.385 0.382 0.383 0.387 0.389 0.386 0.388 0.381 0.385 0.72
53) n-butyl alcohol
0.016 0.016 0.015 0.017 0.014 0.014 0.015 0.015 7.71
54) 2,2,4-trimethylpentane
0.697 0.684 0.727 0.711 0.714 0.722 0.748 0.790 0.721 0.673 0.719 4.61
55) benzene
1.097 1.098 1.180 1.143 1.137 1.137 1.200 1.263 1.164 1.078 1.150 4.80
56) tert-amyl methyl ether
0.202 0.207 0.238 0.228 0.221 0.239 0.231 0.234 0.225 0.204 0.223 6.23
57) heptane
0.145 0.142 0.171 0.165 0.162 0.173 0.169 0.175 0.158 0.162 7.28
58) isopropyl acetate
0.072 0.087 0.084 0.081 0.086 0.081 0.083 0.083 0.082 5.75
59) 1,2-dichloroethane
0.459 0.529 0.486 0.463 0.455 0.478 0.476 0.513 0.464 0.600 0.492 9.09
60) trichloroethene
0.333 0.313 0.375 0.357 0.345 0.367 0.361 0.364 0.346 0.312 0.347 6.31
61) ethyl acrylate
0.415 0.515 0.492 0.468 0.512 0.467 0.464 0.467 0.475 6.77
62) 2-nitropropane
0.135 0.136 0.173 0.162 0.146 0.181 0.147 0.154 0.137 0.152 10.87
63) 2-chloroethyl vinyl ether
0.125 0.183 0.170 0.157 0.192 0.147 0.149 0.153 0.160 13.57
64) methyl methacrylate
0.108 0.104 0.095 0.109 0.088 0.094 0.094 0.099 8.10
65) 1,2-dichloropropane
0.297 0.285 0.331 0.318 0.309 0.326 0.327 0.331 0.313 0.270 0.311 6.73
66) dibromomethane
0.242 0.218 0.251 0.240 0.240 0.249 0.244 0.265 0.239 0.257 0.245 5.16
67) methylcyclohexane
0.390 0.380 0.447 0.435 0.424 0.440 0.444 0.455 0.432 0.378 0.422 6.87
68) bromodichloromethane
0.421 0.454 0.497 0.470 0.456 0.493 0.466 0.484 0.451 0.444 0.464 5.07
69) epichlorohydrin
0.039 0.038 0.047 0.047 0.044 0.046 0.043 0.045 0.042 0.044 7.56
70) cis-1,3-dichloropropene
0.457 0.458 0.545 0.517 0.502 0.539 0.513 0.522 0.504 0.456 0.501 6.68
71) 4-methyl-2-pentanone
0.142 0.137 0.166 0.163 0.157 0.167 0.156 0.159 0.156 0.156 6.64
72) 3-methyl-1-butanol
0.016 0.016 0.014 0.016 0.013 0.011 0.013 0.014 13.14

73) I chlorobenzene-d5 ----------ISTD----------
74) toluene-d8 (s)
1.214 1.219 1.174 1.184 1.202 1.174 1.229 1.227 1.216 1.212 1.205 1.73
75) toluene
0.714 0.749 0.783 0.740 0.733 0.778 0.797 0.824 0.750 0.828 0.770 5.03
76) trans-1,3-dichloropropene
0.441 0.401 0.527 0.499 0.478 0.535 0.488 0.493 0.484 0.483 8.55
77) ethyl methacrylate
0.370 0.372 0.473 0.455 0.436 0.475 0.431 0.444 0.439 0.433 8.84
78) 1,1,2-trichloroethane
0.241 0.252 0.272 0.260 0.261 0.275 0.265 0.275 0.261 0.218 0.258 6.80
79) tetrachloroethene
0.288 0.308 0.310 0.302 0.305 0.302 0.339 0.339 0.310 0.306 0.311 5.20
80) 1,3-dichloropropane
0.469 0.461 0.519 0.495 0.484 0.524 0.505 0.526 0.495 0.397 0.487 7.93
81) 2-hexanone
0.145 0.130 0.178 0.174 0.165 0.179 0.165 0.165 0.162 0.162 9.80

# Initial Calibration Summary

**Job Number:** JD52514 **Sample:** V4D5341-ICC5341
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 4D120255.D
**Project:** EPT, Ithaca, NY

82) butyl acetate
0.197 0.192 0.237 0.231 0.229 0.233 0.236 0.251 0.234 0.227 8.52
83) dibromochloromethane
0.374 0.379 0.462 0.432 0.417 0.468 0.431 0.440 0.415 0.403 0.422 7.42
84) 1,2-dibromoethane
0.315 0.327 0.377 0.355 0.346 0.379 0.363 0.371 0.348 0.302 0.348 7.54
85) n-butyl ether
1.117 1.127 1.378 1.292 1.228 1.369 1.273 1.291 1.246 1.127 1.245 7.70
86) chlorobenzene
0.853 0.842 0.913 0.882 0.876 0.897 0.920 0.968 0.890 0.907 0.895 4.01
87) 1,1,1,2-tetrachloroethane
0.322 0.352 0.378 0.359 0.359 0.375 0.369 0.389 0.363 0.326 0.359 5.96
88) ethylbenzene
1.355 1.353 1.457 1.406 1.397 1.428 1.438 1.508 1.428 1.520 1.429 3.92
89) m,p-xylene
0.518 0.535 0.579 0.547 0.541 0.574 0.559 0.582 0.549 0.546 0.553 3.73
90) o-xylene
0.526 0.514 0.593 0.557 0.541 0.585 0.562 0.571 0.549 0.543 0.554 4.49
91) styrene
0.787 1.033 0.959 0.916 1.032 0.913 0.919 0.916 0.934 8.39
92) bromoform
0.278 0.297 0.368 0.343 0.322 0.376 0.316 0.324 0.316 0.307 0.325 9.31
93) butyl acrylate
0.513 0.713 0.668 0.622 0.720 0.595 0.594 0.613 0.630 10.92
94) isopropylbenzene
1.243 1.300 1.472 1.397 1.359 1.457 1.426 1.460 1.387 1.265 1.377 6.03
95) cis-1,4-dichloro-2-butene
0.137 0.121 0.104 0.150 0.090 0.092 0.116 21.32
----- Linear regression ----- Coefficient = 0.9937
Response Ratio = -0.00753 + 0.14464 *A

96) I 1,4-dichlorobenzene-d ----------ISTD----------
97) 4-bromofluorobenzene (s)
1.012 1.011 1.030 1.028 1.021 1.037 1.027 1.021 1.009 1.017 1.021 0.91
98) bromobenzene
0.848 0.818 0.990 0.936 0.922 0.976 0.925 0.968 0.918 0.902 0.920 5.90
99) 1,1,2,2-tetrachloroethane
0.907 0.912 1.085 1.028 1.003 1.080 1.026 1.063 1.002 0.950 1.006 6.43
100) trans-1,4-dichloro-2-butene
0.229 0.206 0.175 0.244 0.154 0.158 0.194 19.47
101) 1,2,3-trichloropropane
0.278 0.257 0.321 0.312 0.305 0.318 0.312 0.324 0.299 0.303 7.32
102) n-propylbenzene
3.044 3.087 3.619 3.438 3.369 3.540 3.386 3.493 3.359 3.286 3.362 5.47
103) 2-chlorotoluene
0.685 0.706 0.846 0.790 0.778 0.831 0.782 0.818 0.778 0.718 0.773 6.99
104) 4-chlorotoluene
2.064 2.103 2.321 2.173 2.125 2.313 2.239 2.278 2.147 2.221 2.198 4.09
105) 1,3,5-trimethylbenzene
2.141 2.146 2.583 2.424 2.341 2.564 2.374 2.469 2.349 2.384 2.378 6.27
106) tert-butylbenzene
0.438 0.437 0.521 0.489 0.474 0.524 0.467 0.478 0.468 0.405 0.470 7.87
107) 1,2,4-trimethylbenzene
2.126 2.204 2.577 2.422 2.326 2.549 2.376 2.444 2.341 2.556 2.392 6.27
108) sec-butylbenzene
2.405 2.410 3.002 2.822 2.724 3.013 2.710 2.807 2.711 2.602 2.720 7.68
109) 1,3-dichlorobenzene
1.404 1.384 1.640 1.546 1.514 1.617 1.557 1.582 1.537 1.473 1.525 5.52
110) p-isopropyltoluene

# Initial Calibration Summary

**Job Number:** JD52514 **Sample:** V4D5341-ICC5341
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 4D120255.D
**Project:** EPT, Ithaca, NY

```
       2.002 1.934 2.526 2.354 2.258 2.553 2.275 2.331 2.234 1.956  2.242    9.79
111)  1,4-dichlorobenzene
       1.479 1.605 1.677 1.572 1.536 1.681 1.616 1.709 1.570 1.644  1.609    4.45
112)  1,2,3-trimethylbenzene
       2.143 2.204 2.544 2.385 2.311 2.552 2.360 2.437 2.329 2.250  2.351    5.73
113)  benzyl chloride
       1.435       1.915 1.791 1.673 1.921 1.576 1.626 1.610        1.694   10.06
114)  1,2-dichlorobenzene
       1.318 1.237 1.592 1.500 1.462 1.588 1.479 1.502 1.452 1.249  1.438    8.90
115)  n-butylbenzene
                   1.128 1.031 0.968 1.169 0.977 0.991 0.975        1.034    7.87
116)  1,2-dibromo-3-chloropropane
                   0.308 0.293 0.262 0.312 0.255 0.244 0.249        0.275   10.53
117)  1,3,5-trichlorobenzene
       0.751 0.730 0.937 0.861 0.826 0.971 0.841 0.862 0.824        0.845    9.17
118)  1,2,4-trichlorobenzene
       0.613       0.774 0.715 0.682 0.797 0.672 0.677 0.678        0.701    8.49
119)  hexachlorobutadiene
       0.265 0.279 0.347 0.325 0.319 0.359 0.319 0.329 0.313        0.317    9.38
120)  naphthalene
       1.839 1.841 2.011 1.984 1.954 1.943 1.984 2.036 1.983 2.344  1.992    7.04
121)  1,2,3-trichlorobenzene
       0.542 0.534 0.622 0.582 0.572 0.635 0.562 0.577 0.575 0.547  0.575    5.67
122)  hexachloroethane
                   0.504 0.459 0.429 0.516 0.395 0.403 0.419        0.446   10.79
123)  2-methylnaphthalene
                   0.643 0.609 0.577 0.595 0.528 0.532 0.541        0.575    7.61

124)     pentafluorobenzene(a) ----------------ISTD---------------------
125)  Freon 143A
                   0.306 0.290 0.266 0.291 0.275 0.278 0.291        0.285    4.60
126)  Freon 142B
                   0.489 0.474 0.448 0.470 0.473 0.495 0.482        0.476    3.19
127)  Freon 141B
                   0.558 0.540 0.517 0.537 0.527 0.525 0.562        0.538    3.16
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M4D5341.M         Thu Sep 22 11:30:51 2022
```

# Initial Calibration Verification



**Job Number:** JD52514 **Sample:** V4D5341-ICV5341
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 4D120260.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\V4D5341\4D120260.D Vial: 14
Acq On : 14 Aug 2022 2:18 am Operator: PrashanS
Sample : ICV5341-50 Inst : MS4D
Misc : MS61262,V4D5341,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D5341.M (RTE Integrator)
Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Tue Aug 16 11:16:58 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 109 | 0.00 | 8.53 |
| 2 | M | tertiary butyl alcohol | 1.429 | 1.494 | -4.5 | 115 | 0.00 | 8.66 |
| 3 | | ethanol | 0.138 | 0.148 | -7.2 | 109 | 0.00 | 7.07 |
| 4 | M | 1,4-dioxane | 0.126 | 0.127 | -0.8 | 107 | 0.00 | 12.57 |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 106 | 0.00 | 11.02 |
| 6 | M | chlorodifluoromethane | | ----------NA---------- | | | | |
| 7 | M | dichlorodifluoromethane | 0.639 | 0.692 | -8.3 | 110 | 0.00 | 4.55 |
| 8 | M | chloromethane | 0.541 | 0.528 | 2.4 | 107 | 0.00 | 5.04 |
| 9 | M | vinyl chloride | 0.531 | 0.551 | -3.8 | 110 | 0.00 | 5.29 |
| 10 | | 1,3-butadiene | 0.484 | 0.556 | -14.9 | 120 | 0.00 | 5.39 |
| 11 | M | bromomethane | 0.318 | 0.359 | -12.9 | 137 | 0.00 | 6.06 |
| 12 | M | chloroethane | 0.279 | 0.315 | -12.9 | 116 | 0.00 | 6.29 |
| 13 | M | trichlorofluoromethane | 0.751 | 0.811 | -8.0 | 109 | 0.00 | 6.85 |
| 14 | M | ethyl ether | 0.225 | 0.245 | -8.9 | 113 | 0.00 | 7.38 |
| 15 | M | acrolein | 0.095 | 0.109 | -14.7 | 115 | 0.00 | 7.58 |
| 16 | | freon 113 | 0.356 | 0.365 | -2.5 | 106 | 0.00 | 7.83 |
| 17 | M | 1,1-dichloroethene | 0.394 | 0.377 | 4.3 | 110 | 0.00 | 7.83 |
| 18 | M | acetone | 0.046 | 0.053 | -15.2 | 106 | 0.00 | 7.82 |
| 19 | M | acetonitrile | | ----------NA---------- | | | | |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | M | iodomethane | 50.000 | 38.056 | 23.9 | 79 | 0.00 | 8.12 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | M | carbon disulfide | 1.105 | 1.105 | 0.0 | 110 | 0.00 | 8.28 |
| 22 | M | methylene chloride | 0.423 | 0.431 | -1.9 | 112 | 0.00 | 8.59 |
| 23 | M | methyl acetate | 0.392 | 0.465 | -18.6 | 118 | 0.00 | 8.40 |
| 24 | M | methyl tert butyl ether | 1.227 | 1.293 | -5.4 | 113 | 0.00 | 9.03 |
| 25 | M | trans-1,2-dichloroethene | 0.434 | 0.412 | 5.1 | 109 | 0.00 | 9.06 |
| 26 | M | di-isopropyl ether | 1.301 | 1.293 | 0.6 | 106 | 0.00 | 9.72 |
| 27 | M | 2-butanone | 0.067 | 0.077 | -14.9 | 114 | 0.00 | 10.39 |
| 28 | M | 1,1-dichloroethane | 0.719 | 0.748 | -4.0 | 110 | 0.00 | 9.66 |
| 29 | M | chloroprene | 0.543 | 0.630 | -16.0 | 118 | 0.00 | 9.81 |
| 30 | M | acrylonitrile | | ----------NA---------- | | | | |
| 31 | | hexane | 0.251 | 0.284 | -13.1 | 118 | 0.00 | 9.49 |
| 32 | M | vinyl acetate | 0.090 | 0.087 | 3.3 | 96 | 0.00 | 9.66 |
| 33 | M | ethyl tert-butyl ether | 1.270 | 1.258 | 0.9 | 104 | 0.00 | 10.22 |
| 34 | M | ethyl acetate | 0.065 | 0.072 | -10.8 | 112 | 0.00 | 10.46 |
| 35 | M | 2,2-dichloropropane | 0.644 | 0.620 | 3.7 | 107 | 0.00 | 10.48 |
| 36 | M | cis-1,2-dichloroethene | 0.481 | 0.460 | 4.4 | 109 | 0.00 | 10.45 |
| 37 | | methyl acrylate | 0.446 | 0.483 | -8.3 | 110 | 0.00 | 10.53 |

# Initial Calibration Verification

**Job Number:** JD52514 **Sample:** V4D5341-ICV5341
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 4D120260.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | M | propionitrile | 0.081 | 0.085 | -4.9 | 105 | 0.00 | 10.45 |
| 39 | M | bromochloromethane | 0.245 | 0.253 | -3.3 | 110 | 0.00 | 10.75 |
| 40 | M | tetrahydrofuran | 0.088 | 0.088 | 0.0 | 109 | 0.00 | 10.83 |
| 41 | M | chloroform | 0.545 | 0.517 | 5.1 | 110 | 0.00 | 10.82 |
| 42 | M | t-butyl formate | 0.372 | 0.254 | 31.7# | 72 | 0.00 | 10.90 |
| 43 | S | dibromofluoromethane (s) | 0.474 | 0.468 | 1.3 | 106 | 0.00 | 11.02 |
| 44 | M | methacrylonitrile | 0.203 | 0.222 | -9.4 | 113 | 0.00 | 10.68 |
| 45 | M | 1,1,1-trichloroethane | 0.695 | 0.716 | -3.0 | 109 | 0.00 | 11.13 |
| 46 | | cyclohexane | 0.541 | 0.565 | -4.4 | 108 | 0.00 | 11.25 |
| 47 | | 1,1-dichloropropene | 0.544 | 0.555 | -2.0 | 109 | 0.00 | 11.32 |
| 48 | | isobutyl alcohol | 0.004 | 0.004 | 0.0 | 112 | 0.00 | 11.32 |
| 49 | | carbon tetrachloride | 0.660 | 0.672 | -1.8 | 109 | 0.00 | 11.36 |
| 50 | | tert amyl alcohol | 0.029 | 0.031 | -6.9 | 109 | 0.00 | 11.40 |
| 51 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 11.92 |
| 52 | S | 1,2-dichloroethane-d4 (s) | 0.385 | 0.384 | 0.3 | 106 | 0.00 | 11.45 |
| 53 | M | n-butyl alcohol | 0.015 | 0.017 | -13.3 | 107 | 0.00 | 11.99 |
| 54 | | 2,2,4-trimethylpentane | 0.719 | 0.716 | 0.4 | 106 | 0.00 | 11.65 |
| 55 | M | benzene | 1.150 | 1.185 | -3.0 | 109 | 0.00 | 11.57 |
| 56 | M | tert-amyl methyl ether | 0.223 | 0.222 | 0.4 | 103 | 0.00 | 11.64 |
| 57 | M | heptane | 0.162 | 0.175 | -8.0 | 112 | 0.00 | 11.81 |
| 58 | M | isopropyl acetate | 0.082 | 0.088 | -7.3 | 110 | 0.00 | 11.50 |
| 59 | M | 1,2-dichloroethane | 0.492 | 0.482 | 2.0 | 110 | 0.00 | 11.54 |
| 60 | M | trichloroethene | 0.347 | 0.370 | -6.6 | 109 | 0.00 | 12.25 |
| 61 | | ethyl acrylate | 0.475 | 0.502 | -5.7 | 107 | 0.00 | 12.24 |
| 62 | M | 2-nitropropane | 0.152 | 0.178 | -17.1 | 116 | 0.00 | 12.90 |
| 63 | M | 2-chloroethyl vinyl ether | 0.160 | 0.172 | -7.5 | 107 | 0.00 | 12.96 |
| 64 | M | methyl methacrylate | 0.099 | 0.108 | -9.1 | 110 | 0.00 | 12.50 |
| 65 | M | 1,2-dichloropropane | 0.311 | 0.319 | -2.6 | 106 | 0.00 | 12.47 |
| 66 | M | dibromomethane | 0.245 | 0.245 | 0.0 | 108 | 0.00 | 12.60 |
| 67 | M | methylcyclohexane | 0.422 | 0.452 | -7.1 | 109 | 0.00 | 12.51 |
| 68 | M | bromodichloromethane | 0.464 | 0.483 | -4.1 | 108 | 0.00 | 12.73 |
| 69 | | epichlorohydrin | 0.044 | 0.047 | -6.8 | 105 | 0.00 | 13.04 |
| 70 | M | cis-1,3-dichloropropene | 0.501 | 0.526 | -5.0 | 107 | 0.00 | 13.16 |
| 71 | M | 4-methyl-2-pentanone | 0.156 | 0.165 | -5.8 | 107 | 0.00 | 13.26 |
| 72 | M | 3-methyl-1-butanol | 0.014 | 0.016 | -14.3 | 109 | 0.00 | 13.25 |
| 73 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 14.82 |
| 74 | S | toluene-d8 (s) | 1.205 | 1.176 | 2.4 | 104 | 0.00 | 13.46 |
| 75 | | toluene | 0.770 | 0.763 | 0.9 | 108 | 0.00 | 13.53 |
| 76 | | trans-1,3-dichloropropene | 0.483 | 0.509 | -5.4 | 107 | 0.00 | 13.66 |
| 77 | | ethyl methacrylate | 0.433 | 0.463 | -6.9 | 107 | 0.00 | 13.69 |
| 78 | | 1,1,2-trichloroethane | 0.258 | 0.270 | -4.7 | 109 | 0.00 | 13.85 |
| 79 | M | tetrachloroethene | | ----------NA---------- | | | | |
| 80 | M | 1,3-dichloropropane | 0.487 | 0.504 | -3.5 | 107 | 0.00 | 14.03 |
| 81 | | 2-hexanone | 0.162 | 0.177 | -9.3 | 106 | 0.00 | 14.03 |
| 82 | M | butyl acetate | 0.227 | 0.246 | -8.4 | 112 | 0.00 | 14.11 |
| 83 | M | dibromochloromethane | 0.422 | 0.448 | -6.2 | 109 | 0.00 | 14.26 |
| 84 | M | 1,2-dibromoethane | 0.348 | 0.370 | -6.3 | 109 | 0.00 | 14.41 |
| 85 | | n-butyl ether | 1.245 | 1.297 | -4.2 | 105 | 0.00 | 14.81 |
| 86 | M | chlorobenzene | 0.895 | 0.903 | -0.9 | 107 | 0.00 | 14.85 |
| 87 | M | 1,1,1,2-tetrachloroethane | 0.359 | 0.371 | -3.3 | 108 | 0.00 | 14.90 |
| 88 | M | ethylbenzene | 1.429 | 1.451 | -1.5 | 108 | 0.00 | 14.92 |
| 89 | M | m,p-xylene | 0.553 | 0.565 | -2.2 | 108 | 0.00 | 15.01 |
| 90 | M | o-xylene | 0.554 | 0.570 | -2.9 | 107 | 0.00 | 15.39 |
| 91 | M | styrene | 0.934 | 0.994 | -6.4 | 109 | 0.00 | 15.39 |
| 92 | M | bromoform | 0.325 | 0.354 | -8.9 | 108 | 0.00 | 15.59 |
| 93 | | butyl acrylate | 0.630 | 0.693 | -10.0 | 109 | 0.00 | 15.22 |
| 94 | | isopropylbenzene | 1.377 | 1.438 | -4.4 | 108 | 0.00 | 15.71 |

# Initial Calibration Verification

**Job Number:** JD52514 **Sample:** V4D5341-ICV5341
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 4D120260.D
**Project:** EPT, Ithaca, NY

| | | | True | Calc. | % Drift | | | |
|---|---|---|---|---|---|---|---|---|
| 95 | | cis-1,4-dichloro-2-butene | 50.000 | 47.952 | 4.1 | 113 | 0.00 | 15.71 |

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 16.93 |
| 97 | S | 4-bromofluorobenzene (s) | 1.021 | 1.035 | -1.4 | 104 | 0.00 | 15.87 |
| 98 | M | bromobenzene | 0.920 | 0.982 | -6.7 | 108 | 0.00 | 16.04 |
| 99 | M | 1,1,2,2-tetrachloroethane | 1.006 | 1.069 | -6.3 | 108 | 0.00 | 15.92 |
| 100 | M | trans-1,4-dichloro-2-bute | 0.194 | 0.236 | -21.6 | 119 | 0.00 | 15.96 |
| 101 | M | 1,2,3-trichloropropane | 0.303 | 0.326 | -7.6 | 108 | 0.00 | 15.99 |
| 102 | M | n-propylbenzene | 3.362 | 3.584 | -6.6 | 108 | 0.00 | 16.08 |
| 103 | M | 2-chlorotoluene | 0.773 | 0.819 | -6.0 | 107 | 0.00 | 16.20 |
| 104 | M | 4-chlorotoluene | 2.198 | 2.266 | -3.1 | 108 | 0.00 | 16.29 |
| 105 | M | 1,3,5-trimethylbenzene | 2.378 | 2.524 | -6.1 | 108 | 0.00 | 16.21 |
| 106 | M | tert-butylbenzene | 0.470 | 0.515 | -9.6 | 109 | 0.00 | 16.54 |
| 107 | M | 1,2,4-trimethylbenzene | 2.392 | 2.546 | -6.4 | 109 | 0.00 | 16.57 |
| 108 | M | sec-butylbenzene | 2.720 | 2.941 | -8.1 | 108 | 0.00 | 16.73 |
| 109 | M | 1,3-dichlorobenzene | 1.525 | 1.608 | -5.4 | 108 | 0.00 | 16.88 |
| 110 | M | p-isopropyltoluene | 2.242 | 2.463 | -9.9 | 108 | 0.00 | 16.84 |
| 111 | M | 1,4-dichlorobenzene | 1.609 | 1.627 | -1.1 | 107 | 0.00 | 16.96 |
| 112 | | 1,2,3-trimethylbenzene | | ----------NA---------- | | | | |
| 113 | | benzyl chloride | 1.694 | 1.726 | -1.9 | 100 | 0.00 | 17.05 |
| 114 | M | 1,2-dichlorobenzene | 1.438 | 1.559 | -8.4 | 107 | 0.00 | 17.31 |
| 115 | M | n-butylbenzene | 1.034 | 1.097 | -6.1 | 110 | 0.00 | 17.22 |
| 116 | M | 1,2-dibromo-3-chloropropa | 0.275 | 0.300 | -9.1 | 106 | 0.00 | 18.01 |
| 117 | | 1,3,5-trichlorobenzene | 0.845 | 0.920 | -8.9 | 110 | 0.00 | 18.23 |
| 118 | M | 1,2,4-trichlorobenzene | 0.701 | 0.750 | -7.0 | 108 | 0.00 | 18.82 |
| 119 | M | hexachlorobutadiene | 0.317 | 0.363 | -14.5 | 116 | 0.00 | 18.96 |
| 120 | M | naphthalene | 1.992 | 2.028 | -1.8 | 106 | 0.00 | 19.08 |
| 121 | M | 1,2,3-trichlorobenzene | 0.575 | 0.616 | -7.1 | 109 | 0.00 | 19.31 |
| 122 | m | hexachloroethane | 0.446 | 0.495 | -11.0 | 111 | 0.00 | 17.59 |
| 123 | | 2-methylnaphthalene | 0.575 | 0.609 | -5.9 | 103 | 0.00 | 20.17 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4D120255.D M4D5341.M Wed Aug 17 16:21:05 2022

# Initial Calibration Verification



**Job Number:** JD52514 **Sample:** V4D5341-ICV5341
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 4D120261.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\V4D5341\4D120261.D Vial: 15
Acq On : 14 Aug 2022 2:46 am Operator: PrashanS
Sample : ICV5341-50 Inst : MS4D
Misc : MS61262,V4D5341,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D5341.M (RTE Integrator)
Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Tue Aug 16 11:16:58 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 109 | 0.00 | 8.53 |
| 2 | M | tertiary butyl alcohol | | ----------NA---------- | | | | |
| 3 | | ethanol | | ----------NA---------- | | | | |
| 4 | M | 1,4-dioxane | | ----------NA---------- | | | | |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 113 | 0.00 | 11.02 |
| 6 | M | chlorodifluoromethane | 0.550 | 0.639 | -16.2 | 130 | 0.00 | 4.58 |
| 7 | M | dichlorodifluoromethane | | ----------NA---------- | | | | |
| 8 | M | chloromethane | | ----------NA---------- | | | | |
| 9 | M | vinyl chloride | | ----------NA---------- | | | | |
| 10 | | 1,3-butadiene | | ----------NA---------- | | | | |
| 11 | M | bromomethane | | ----------NA---------- | | | | |
| 12 | M | chloroethane | | ----------NA---------- | | | | |
| 13 | M | trichlorofluoromethane | | ----------NA---------- | | | | |
| 14 | M | ethyl ether | | ----------NA---------- | | | | |
| 15 | M | acrolein | | ----------NA---------- | | | | |
| 16 | | freon 113 | | ----------NA---------- | | | | |
| 17 | M | 1,1-dichloroethene | | ----------NA---------- | | | | |
| 18 | M | acetone | | ----------NA---------- | | | | |
| 19 | M | acetonitrile | 0.079 | 0.072 | 8.9 | 101 | 0.00 | 8.26 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | M | iodomethane | | ----------NA---------- | | | | |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | M | carbon disulfide | | ----------NA---------- | | | | |
| 22 | M | methylene chloride | | ----------NA---------- | | | | |
| 23 | M | methyl acetate | | ----------NA---------- | | | | |
| 24 | M | methyl tert butyl ether | | ----------NA---------- | | | | |
| 25 | M | trans-1,2-dichloroethene | | ----------NA---------- | | | | |
| 26 | M | di-isopropyl ether | | ----------NA---------- | | | | |
| 27 | M | 2-butanone | | ----------NA---------- | | | | |
| 28 | M | 1,1-dichloroethane | | ----------NA---------- | | | | |
| 29 | M | chloroprene | | ----------NA---------- | | | | |
| 30 | M | acrylonitrile | 0.174 | 0.159 | 8.6 | 97 | 0.00 | 8.92 |
| 31 | | hexane | | ----------NA---------- | | | | |
| 32 | M | vinyl acetate | | ----------NA---------- | | | | |
| 33 | M | ethyl tert-butyl ether | | ----------NA---------- | | | | |
| 34 | M | ethyl acetate | | ----------NA---------- | | | | |
| 35 | M | 2,2-dichloropropane | | ----------NA---------- | | | | |
| 36 | M | cis-1,2-dichloroethene | | ----------NA---------- | | | | |
| 37 | | methyl acrylate | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52514 **Sample:** V4D5341-ICV5341
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 4D120261.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 38 | M | propionitrile | | | ----------NA---------- | | | | |
| 39 | M | bromochloromethane | | | ----------NA---------- | | | | |
| 40 | M | tetrahydrofuran | | | ----------NA---------- | | | | |
| 41 | M | chloroform | | | ----------NA---------- | | | | |
| 42 | M | t-butyl formate | | | ----------NA---------- | | | | |
| 43 | S | dibromofluoromethane (s) | 0.474 | 0.466 | 1.7 | 112 | 0.00 | 11.02 | |
| 44 | M | methacrylonitrile | | | ----------NA---------- | | | | |
| 45 | M | 1,1,1-trichloroethane | | | ----------NA---------- | | | | |
| 46 | | cyclohexane | | | ----------NA---------- | | | | |
| 47 | | 1,1-dichloropropene | | | ----------NA---------- | | | | |
| 48 | | isobutyl alcohol | | | ----------NA---------- | | | | |
| 49 | | carbon tetrachloride | | | ----------NA---------- | | | | |
| 50 | | tert amyl alcohol | | | ----------NA---------- | | | | |
| 51 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 112 | 0.00 | 11.92 | |
| 52 | S | 1,2-dichloroethane-d4 (s) | 0.385 | 0.389 | -1.0 | 114 | 0.00 | 11.45 | |
| 53 | M | n-butyl alcohol | | | ----------NA---------- | | | | |
| 54 | | 2,2,4-trimethylpentane | | | ----------NA---------- | | | | |
| 55 | M | benzene | | | ----------NA---------- | | | | |
| 56 | M | tert-amyl methyl ether | | | ----------NA---------- | | | | |
| 57 | M | heptane | | | ----------NA---------- | | | | |
| 58 | M | isopropyl acetate | | | ----------NA---------- | | | | |
| 59 | M | 1,2-dichloroethane | | | ----------NA---------- | | | | |
| 60 | M | trichloroethene | | | ----------NA---------- | | | | |
| 61 | | ethyl acrylate | | | ----------NA---------- | | | | |
| 62 | M | 2-nitropropane | | | ----------NA---------- | | | | |
| 63 | M | 2-chloroethyl vinyl ether | | | ----------NA---------- | | | | |
| 64 | M | methyl methacrylate | | | ----------NA---------- | | | | |
| 65 | M | 1,2-dichloropropane | | | ----------NA---------- | | | | |
| 66 | M | dibromomethane | | | ----------NA---------- | | | | |
| 67 | M | methylcyclohexane | | | ----------NA---------- | | | | |
| 68 | M | bromodichloromethane | | | ----------NA---------- | | | | |
| 69 | | epichlorohydrin | | | ----------NA---------- | | | | |
| 70 | M | cis-1,3-dichloropropene | | | ----------NA---------- | | | | |
| 71 | M | 4-methyl-2-pentanone | | | ----------NA---------- | | | | |
| 72 | M | 3-methyl-1-butanol | | | ----------NA---------- | | | | |
| 73 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 106 | 0.00 | 14.82 | |
| 74 | S | toluene-d8 (s) | 1.205 | 1.237 | -2.7 | 110 | 0.00 | 13.46 | |
| 75 | | toluene | | | ----------NA---------- | | | | |
| 76 | | trans-1,3-dichloropropene | | | ----------NA---------- | | | | |
| 77 | | ethyl methacrylate | | | ----------NA---------- | | | | |
| 78 | | 1,1,2-trichloroethane | | | ----------NA---------- | | | | |
| 79 | M | tetrachloroethene | 0.311 | 0.299 | 3.9 | 104 | 0.00 | 14.07 | |
| 80 | M | 1,3-dichloropropane | | | ----------NA---------- | | | | |
| 81 | | 2-hexanone | | | ----------NA---------- | | | | |
| 82 | M | butyl acetate | | | ----------NA---------- | | | | |
| 83 | M | dibromochloromethane | | | ----------NA---------- | | | | |
| 84 | M | 1,2-dibromoethane | | | ----------NA---------- | | | | |
| 85 | | n-butyl ether | | | ----------NA---------- | | | | |
| 86 | M | chlorobenzene | | | ----------NA---------- | | | | |
| 87 | M | 1,1,1,2-tetrachloroethane | | | ----------NA---------- | | | | |
| 88 | M | ethylbenzene | | | ----------NA---------- | | | | |
| 89 | M | m,p-xylene | | | ----------NA---------- | | | | |
| 90 | M | o-xylene | | | ----------NA---------- | | | | |
| 91 | M | styrene | | | ----------NA---------- | | | | |
| 92 | M | bromoform | | | ----------NA---------- | | | | |
| 93 | | butyl acrylate | | | ----------NA---------- | | | | |
| 94 | | isopropylbenzene | | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52514 **Sample:** V4D5341-ICV5341
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 4D120261.D
**Project:** EPT, Ithaca, NY

| | | | True | Calc. | % Drift | | | |
|---|---|---|---|---|---|---|---|---|
| 95 | | cis-1,4-dichloro-2-butene | | ----------NA---------- | | | | |
| | | | AvgRF | CCRF | % Dev | | | |
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 107 | 0.00 | 16.93 |
| 97 | S | 4-bromofluorobenzene (s) | 1.021 | 1.028 | -0.7 | 107 | 0.00 | 15.87 |
| 98 | M | bromobenzene | | ----------NA---------- | | | | |
| 99 | M | 1,1,2,2-tetrachloroethane | | ----------NA---------- | | | | |
| 100 | M | trans-1,4-dichloro-2-bute | | ----------NA---------- | | | | |
| 101 | M | 1,2,3-trichloropropane | | ----------NA---------- | | | | |
| 102 | M | n-propylbenzene | | ----------NA---------- | | | | |
| 103 | M | 2-chlorotoluene | | ----------NA---------- | | | | |
| 104 | M | 4-chlorotoluene | | ----------NA---------- | | | | |
| 105 | M | 1,3,5-trimethylbenzene | | ----------NA---------- | | | | |
| 106 | M | tert-butylbenzene | | ----------NA---------- | | | | |
| 107 | M | 1,2,4-trimethylbenzene | | ----------NA---------- | | | | |
| 108 | M | sec-butylbenzene | | ----------NA---------- | | | | |
| 109 | M | 1,3-dichlorobenzene | | ----------NA---------- | | | | |
| 110 | M | p-isopropyltoluene | | ----------NA---------- | | | | |
| 111 | M | 1,4-dichlorobenzene | | ----------NA---------- | | | | |
| 112 | | 1,2,3-trimethylbenzene | 2.351 | 2.597 | -10.5 | 116 | 0.00 | 16.97 |
| 113 | | benzyl chloride | | ----------NA---------- | | | | |
| 114 | M | 1,2-dichlorobenzene | | ----------NA---------- | | | | |
| 115 | M | n-butylbenzene | | ----------NA---------- | | | | |
| 116 | M | 1,2-dibromo-3-chloropropa | | ----------NA---------- | | | | |
| 117 | | 1,3,5-trichlorobenzene | | ----------NA---------- | | | | |
| 118 | M | 1,2,4-trichlorobenzene | | ----------NA---------- | | | | |
| 119 | M | hexachlorobutadiene | | ----------NA---------- | | | | |
| 120 | M | naphthalene | | ----------NA---------- | | | | |
| 121 | M | 1,2,3-trichlorobenzene | | ----------NA---------- | | | | |
| 122 | m | hexachloroethane | | ----------NA---------- | | | | |
| 123 | | 2-methylnaphthalene | | ----------NA---------- | | | | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4D120255.D M4D5341.M Wed Aug 17 16:21:07 2022

# Continuing Calibration Summary



**Job Number:** JD52514 **Sample:** V4D5406-CC5341
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 4D121696.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\re...22\v4d5406\4d121696.d Vial: 27
Acq On : 29 Sep 2022 8:44 pm Operator: taylors
Sample : cc5341-50 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D5341.M (RTE Integrator)
Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Tue Sep 20 14:55:55 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 133 | 0.00 | 8.54 |
| 2 | M | tertiary butyl alcohol | 1.429 | 1.512 | -5.8 | 142 | 0.00 | 8.66 |
| 3 | | ethanol | 0.138 | 0.176 | -27.5# | 158 | 0.00 | 7.07 |
| 4 | M | 1,4-dioxane | 0.126 | 0.121 | 4.0 | 125 | 0.00 | 12.57 |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 93 | 0.00 | 11.02 |
| 6 | M | chlorodifluoromethane | 0.550 | 0.630 | -14.5 | 106 | 0.00 | 4.59 |
| 7 | M | dichlorodifluoromethane | 0.639 | 0.528 | 17.4 | 74 | 0.00 | 4.54 |
| 8 | M | chloromethane | 0.541 | 0.416 | 23.1# | 74 | 0.00 | 5.04 |
| 9 | M | vinyl chloride | 0.531 | 0.401 | 24.5# | 70 | -0.01 | 5.28 |
| 10 | | 1,3-butadiene | 0.484 | 0.355 | 26.7# | 67 | -0.01 | 5.38 |
| 11 | M | bromomethane | 0.318 | 0.237 | 25.5# | 79 | -0.01 | 6.05 |
| 12 | M | chloroethane | 0.279 | 0.254 | 9.0 | 82 | -0.01 | 6.28 |
| 13 | M | trichlorofluoromethane | 0.751 | 0.667 | 11.2 | 78 | 0.00 | 6.85 |
| 14 | M | ethyl ether | 0.225 | 0.240 | -6.7 | 97 | 0.00 | 7.37 |
| 15 | M | acrolein | 0.095 | 0.127 | -33.7# | 117 | 0.00 | 7.57 |
| 16 | | freon 113 | 0.356 | 0.363 | -2.0 | 92 | 0.00 | 7.82 |
| 17 | M | 1,1-dichloroethene | 0.394 | 0.371 | 5.8 | 94 | 0.00 | 7.83 |
| 18 | M | acetone | 0.046 | 0.073 | -58.7# | 128 | 0.00 | 7.82 |
| 19 | M | acetonitrile | 0.079 | 0.131 | -65.8# | 150 | 0.00 | 8.26 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | M | iodomethane | 50.000 | 25.873 | 48.3# | 46 | 0.00 | 8.11 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | M | carbon disulfide | 1.105 | 1.064 | 3.7 | 93 | 0.00 | 8.27 |
| 22 | M | methylene chloride | 0.423 | 0.427 | -0.9 | 97 | 0.00 | 8.59 |
| 23 | M | methyl acetate | 0.392 | 0.621 | -58.4# | 138 | 0.00 | 8.39 |
| 24 | M | methyl tert butyl ether | 1.227 | 1.282 | -4.5 | 98 | 0.00 | 9.03 |
| 25 | M | trans-1,2-dichloroethene | 0.434 | 0.409 | 5.8 | 95 | 0.00 | 9.05 |
| 26 | M | di-isopropyl ether | 1.301 | 1.651 | -26.9# | 119 | 0.00 | 9.72 |
| 27 | M | 2-butanone | 0.067 | 0.089 | -32.8# | 116 | 0.00 | 10.39 |
| 28 | M | 1,1-dichloroethane | 0.719 | 0.773 | -7.5 | 99 | 0.00 | 9.66 |
| 29 | M | chloroprene | 0.543 | 0.656 | -20.8# | 107 | 0.00 | 9.80 |
| 30 | M | acrylonitrile | 0.174 | 0.270 | -55.2# | 136 | 0.00 | 8.91 |
| 31 | | hexane | 0.251 | 0.301 | -19.9 | 109 | 0.00 | 9.48 |
| 32 | M | vinyl acetate | 0.090 | 0.111 | -23.3# | 107 | 0.00 | 9.66 |
| 33 | M | ethyl tert-butyl ether | 1.270 | 1.463 | -15.2 | 105 | 0.00 | 10.22 |
| 34 | M | ethyl acetate | 0.065 | 0.078 | -20.0 | 107 | 0.00 | 10.45 |
| 35 | M | 2,2-dichloropropane | 0.644 | 0.575 | 10.7 | 86 | 0.00 | 10.47 |
| 36 | M | cis-1,2-dichloroethene | 0.481 | 0.464 | 3.5 | 96 | 0.00 | 10.44 |
| 37 | | methyl acrylate | 0.446 | 0.642 | -43.9# | 128 | 0.00 | 10.53 |

# Continuing Calibration Summary

**Job Number:** JD52514 **Sample:** V4D5406-CC5341
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 4D121696.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | M | propionitrile | 0.081 | 0.133 | -64.2# | 145 | 0.00 | 10.44 |
| 39 | M | bromochloromethane | 0.245 | 0.267 | -9.0 | 101 | 0.00 | 10.75 |
| 40 | M | tetrahydrofuran | 0.088 | 0.104 | -18.2 | 113 | 0.00 | 10.83 |
| 41 | M | chloroform | 0.545 | 0.501 | 8.1 | 93 | 0.00 | 10.82 |
| 42 | M | t-butyl formate | 0.372 | 0.477 | -28.2# | 118 | 0.00 | 10.90 |
| 43 | S | dibromofluoromethane (s) | 0.474 | 0.504 | -6.3 | 100 | 0.00 | 11.02 |
| 44 | M | methacrylonitrile | 0.203 | 0.256 | -26.1# | 114 | 0.00 | 10.67 |
| 45 | M | 1,1,1-trichloroethane | 0.695 | 0.682 | 1.9 | 91 | 0.00 | 11.13 |
| 46 | | cyclohexane | 0.541 | 0.451 | 16.6 | 75 | 0.00 | 11.25 |
| 47 | | 1,1-dichloropropene | 0.544 | 0.546 | -0.4 | 94 | 0.00 | 11.32 |
| 48 | | isobutyl alcohol | 0.004 | 0.004 | 0.0 | 94 | 0.00 | 11.32 |
| 49 | | carbon tetrachloride | 0.660 | 0.645 | 2.3 | 91 | 0.00 | 11.35 |
| 50 | | tert amyl alcohol | 0.029 | 0.049 | -69.0# | 154 | 0.00 | 11.40 |
| 51 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 11.92 |
| 52 | S | 1,2-dichloroethane-d4 (s) | 0.385 | 0.362 | 6.0 | 98 | 0.00 | 11.45 |
| 53 | M | n-butyl alcohol | 0.015 | 0.026 | -73.3# | 167 | 0.00 | 11.99 |
| 54 | | 2,2,4-trimethylpentane | 0.719 | 0.706 | 1.8 | 103 | 0.00 | 11.65 |
| 55 | M | benzene | 1.150 | 1.053 | 8.4 | 96 | 0.00 | 11.57 |
| 56 | M | tert-amyl methyl ether | 0.223 | 0.214 | 4.0 | 97 | 0.00 | 11.63 |
| 57 | M | heptane | 0.162 | 0.134 | 17.3 | 84 | 0.00 | 11.81 |
| 58 | M | isopropyl acetate | 0.082 | 0.088 | -7.3 | 109 | 0.00 | 11.49 |
| 59 | M | 1,2-dichloroethane | 0.492 | 0.457 | 7.1 | 102 | 0.00 | 11.53 |
| 60 | M | trichloroethene | 0.347 | 0.343 | 1.2 | 100 | 0.00 | 12.25 |
| 61 | | ethyl acrylate | 0.475 | 0.613 | -29.1# | 129 | 0.00 | 12.24 |
| 62 | M | 2-nitropropane | 0.152 | 0.192 | -26.3# | 123 | 0.00 | 12.90 |
| 63 | M | 2-chloroethyl vinyl ether | 0.160 | 0.246 | -53.8# | 150 | 0.00 | 12.96 |
| 64 | M | methyl methacrylate | 0.099 | 0.110 | -11.1 | 110 | 0.00 | 12.49 |
| 65 | M | 1,2-dichloropropane | 0.311 | 0.321 | -3.2 | 105 | 0.00 | 12.47 |
| 66 | M | dibromomethane | 0.245 | 0.228 | 6.9 | 99 | 0.00 | 12.60 |
| 67 | M | methylcyclohexane | 0.422 | 0.401 | 5.0 | 96 | 0.00 | 12.51 |
| 68 | M | bromodichloromethane | 0.464 | 0.440 | 5.2 | 97 | 0.00 | 12.72 |
| 69 | | epichlorohydrin | 0.044 | 0.065 | -47.7# | 144 | 0.00 | 13.04 |
| 70 | M | cis-1,3-dichloropropene | 0.501 | 0.498 | 0.6 | 100 | 0.00 | 13.16 |
| 71 | M | 4-methyl-2-pentanone | 0.156 | 0.204 | -30.8# | 130 | 0.00 | 13.25 |
| 72 | M | 3-methyl-1-butanol | 0.014 | 0.021 | -50.0# | 142 | 0.00 | 13.24 |
| 73 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 14.82 |
| 74 | S | toluene-d8 (s) | 1.205 | 1.177 | 2.3 | 105 | 0.00 | 13.46 |
| 75 | | toluene | 0.770 | 0.686 | 10.9 | 97 | 0.00 | 13.53 |
| 76 | | trans-1,3-dichloropropene | 0.483 | 0.475 | 1.7 | 100 | 0.00 | 13.66 |
| 77 | | ethyl methacrylate | 0.433 | 0.447 | -3.2 | 103 | 0.00 | 13.69 |
| 78 | | 1,1,2-trichloroethane | 0.258 | 0.265 | -2.7 | 107 | 0.00 | 13.85 |
| 79 | M | tetrachloroethene | 0.311 | 0.259 | 16.7 | 90 | 0.00 | 14.07 |
| 80 | M | 1,3-dichloropropane | 0.487 | 0.480 | 1.4 | 102 | 0.00 | 14.02 |
| 81 | | 2-hexanone | 0.162 | 0.228 | -40.7# | 138 | 0.00 | 14.03 |
| 82 | M | butyl acetate | 0.227 | 0.298 | -31.3# | 136 | 0.00 | 14.11 |
| 83 | M | dibromochloromethane | 0.422 | 0.424 | -0.5 | 103 | 0.00 | 14.26 |
| 84 | M | 1,2-dibromoethane | 0.348 | 0.371 | -6.6 | 110 | 0.00 | 14.41 |
| 85 | | n-butyl ether | 1.245 | 1.367 | -9.8 | 111 | 0.00 | 14.81 |
| 86 | M | chlorobenzene | 0.895 | 0.843 | 5.8 | 100 | 0.00 | 14.85 |
| 87 | M | 1,1,1,2-tetrachloroethane | 0.359 | 0.345 | 3.9 | 101 | 0.00 | 14.90 |
| 88 | M | ethylbenzene | 1.429 | 1.292 | 9.6 | 97 | 0.00 | 14.92 |
| 89 | M | m,p-xylene | 0.553 | 0.508 | 8.1 | 98 | 0.00 | 15.01 |
| 90 | M | o-xylene | 0.554 | 0.514 | 7.2 | 97 | 0.00 | 15.39 |
| 91 | M | styrene | 0.934 | 0.894 | 4.3 | 98 | 0.00 | 15.39 |
| 92 | M | bromoform | 0.325 | 0.327 | -0.6 | 100 | 0.00 | 15.59 |
| 93 | | butyl acrylate | 0.630 | 0.793 | -25.9# | 125 | 0.00 | 15.22 |
| 94 | | isopropylbenzene | 1.377 | 1.268 | 7.9 | 95 | 0.00 | 15.70 |

# Continuing Calibration Summary

**Job Number:** JD52514 **Sample:** V4D5406-CC5341
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 4D121696.D
**Project:** EPT, Ithaca, NY

| | | | True | Calc. | % Drift | | | |
|---|---|---|---|---|---|---|---|---|
| 95 | | cis-1,4-dichloro-2-butene | 50.000 | 49.064 | 1.9 | 116 | 0.00 | 15.71 |

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 106 | 0.00 | 16.93 |
| 97 | S | 4-bromofluorobenzene (s) | 1.021 | 0.989 | 3.1 | 102 | 0.00 | 15.87 |
| 98 | M | bromobenzene | 0.920 | 0.846 | 8.0 | 96 | 0.00 | 16.04 |
| 99 | M | 1,1,2,2-tetrachloroethane | 1.006 | 1.068 | -6.2 | 110 | 0.00 | 15.92 |
| 100 | M | trans-1,4-dichloro-2-bute | 0.194 | 0.260 | -34.0# | 134 | 0.00 | 15.96 |
| 101 | M | 1,2,3-trichloropropane | 0.303 | 0.311 | -2.6 | 105 | 0.00 | 15.99 |
| 102 | M | n-propylbenzene | 3.362 | 3.102 | 7.7 | 95 | 0.00 | 16.08 |
| 103 | M | 2-chlorotoluene | 0.773 | 0.746 | 3.5 | 100 | 0.00 | 16.20 |
| 104 | M | 4-chlorotoluene | 2.198 | 1.964 | 10.6 | 96 | 0.00 | 16.28 |
| 105 | M | 1,3,5-trimethylbenzene | 2.378 | 2.119 | 10.9 | 92 | 0.00 | 16.21 |
| 106 | M | tert-butylbenzene | 0.470 | 0.450 | 4.3 | 97 | 0.00 | 16.54 |
| 107 | M | 1,2,4-trimethylbenzene | 2.392 | 2.089 | 12.7 | 91 | 0.00 | 16.57 |
| 108 | M | sec-butylbenzene | 2.720 | 2.542 | 6.5 | 95 | 0.00 | 16.73 |
| 109 | M | 1,3-dichlorobenzene | 1.525 | 1.429 | 6.3 | 98 | 0.00 | 16.88 |
| 110 | M | p-isopropyltoluene | 2.242 | 2.150 | 4.1 | 97 | 0.00 | 16.84 |
| 111 | M | 1,4-dichlorobenzene | 1.609 | 1.436 | 10.8 | 97 | 0.00 | 16.96 |
| 112 | | 1,2,3-trimethylbenzene | 2.351 | 2.048 | 12.9 | 91 | 0.00 | 16.97 |
| 113 | | benzyl chloride | 1.694 | 1.669 | 1.5 | 99 | 0.00 | 17.05 |
| 114 | M | 1,2-dichlorobenzene | 1.438 | 1.404 | 2.4 | 99 | 0.00 | 17.31 |
| 115 | M | n-butylbenzene | 1.034 | 0.860 | 16.8 | 88 | 0.00 | 17.22 |
| 116 | M | 1,2-dibromo-3-chloropropa | 0.275 | 0.339 | -23.3# | 123 | 0.00 | 18.01 |
| 117 | | 1,3,5-trichlorobenzene | 0.845 | 0.780 | 7.7 | 96 | 0.00 | 18.23 |
| 118 | M | 1,2,4-trichlorobenzene | 0.701 | 0.660 | 5.8 | 98 | 0.00 | 18.82 |
| 119 | M | hexachlorobutadiene | 0.317 | 0.270 | 14.8 | 88 | 0.00 | 18.96 |
| 120 | M | naphthalene | 1.992 | 2.035 | -2.2 | 109 | 0.00 | 19.08 |
| 121 | M | 1,2,3-trichlorobenzene | 0.575 | 0.586 | -1.9 | 107 | 0.00 | 19.30 |
| 122 | m | hexachloroethane | 0.446 | 0.381 | 14.6 | 88 | 0.00 | 17.59 |
| 123 | | 2-methylnaphthalene | 0.575 | 0.908 | -57.9# | 158 | 0.00 | 20.17 |
| 124 | | pentafluorobenzene(a) | 1.000 | 1.000 | 0.0 | 63 | 0.00 | 11.02 |
| 125 | | Freon 143A | | ----------NA---------- | | | | |
| 126 | | Freon 142B | | ----------NA---------- | | | | |
| 127 | | Freon 141B | | ----------NA---------- | | | | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4D120255.D M4D5341.M Mon Oct 03 06:12:07 2022

# Initial Calibration Summary



**Job Number:** JD52514 **Sample:** VL10355-ICC10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342975.D
**Project:** EPT, Ithaca, NY

Response Factor Report GCMSL

Method : C:\MSDCHEM\1\METHODS\ML10355.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

Calibration Files
8 =L342973.D 0.5 =L342969.D 4 =L342972.D 50 =L342975.D
100 =L342976.D 1 =L342970.D 200 =L342977.D 20 =L342974.D
2 =L342971.D 0.2 =L342968.D = =

| Compound | 8 | 0.5 | 4 | 50 | 100 | 1 | 200 | 20 | 2 | 0.2 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) I tert butyl alcohol-d9 | ISTD | | | | | | | | | | | |
| 2) 1,4-dioxane | 0.126 | 0.161 | 0.120 | 0.127 | 0.121 | 0.125 | 0.115 | 0.148 | | | 0.130 | 12.05 |
| 3) ethanol | 0.118 | 0.149 | 0.115 | 0.118 | 0.146 | 0.097 | 0.113 | 0.142 | | | 0.125 | 14.94 |
| 4) tertiary butyl alcohol | 1.393 | 1.897 | 1.395 | 1.410 | 1.708 | 1.354 | 1.344 | 1.758 | | | 1.532 | 14.28 |
| 5) I pentafluorobenzene | ISTD | | | | | | | | | | | |
| 6) chlorodifluoromethane | 0.521 | 0.607 | 0.558 | 0.548 | 0.553 | 0.520 | 0.486 | 0.551 | 0.613 | 0.635 | 0.559 | 8.32 |
| 7) dichlorodifluoromethane | 0.719 | 0.772 | 0.716 | 0.817 | 0.832 | 1.002 | 0.784 | 0.805 | 0.713 | 1.004 | 0.816 | 13.13 |
| 8) chloromethane | 0.508 | 0.523 | 0.539 | 0.558 | 0.664 | 0.509 | 0.544 | 0.521 | | | 0.546 | 9.33 |
| 9) vinyl chloride | 0.614 | 0.768 | 0.594 | 0.654 | 0.662 | 0.802 | 0.604 | 0.658 | 0.627 | 0.747 | 0.673 | 10.92 |
| 10) 1,3-butadiene | 0.712 | 0.796 | 0.663 | 0.599 | 0.509 | 0.691 | | | | | 0.662 | 14.89 |
| 11) bromomethane | 0.278 | 0.264 | 0.276 | 0.264 | 0.257 | 0.343 | | | | | 0.280 | 11.28 |
| 12) chloroethane | 0.354 | 0.464 | 0.326 | 0.370 | 0.373 | 0.550 | 0.304 | 0.360 | 0.395 | 0.440 | 0.394 | 18.54 |
| 13) trichlorofluoromethane | 0.906 | 0.984 | 0.908 | 0.933 | 0.944 | 1.143 | 0.855 | 0.944 | 0.952 | 0.843 | 0.941 | 8.84 |
| 14) ethyl ether | 0.345 | 0.341 | 0.352 | 0.344 | 0.252 | 0.316 | 0.346 | 0.334 | | | 0.329 | 9.93 |
| 15) acrolein | 0.108 | 0.110 | 0.118 | 0.120 | 0.120 | 0.115 | 0.146 | | | | 0.119 | 10.46 |
| 16) freon 113 | 0.359 | 0.401 | 0.383 | 0.382 | 0.371 | 0.344 | 0.338 | 0.372 | 0.385 | | 0.371 | 5.53 |
| 17) 1,1-dichloroethene | 0.454 | 0.541 | 0.463 | 0.464 | 0.441 | 0.406 | 0.401 | 0.474 | 0.510 | | 0.462 | 9.73 |
| 18) acetone | 0.080 | 0.093 | 0.080 | 0.076 | 0.072 | 0.071 | 0.081 | 0.095 | | | 0.081 | 11.14 |
| 19) acetonitrile | 0.052 | 0.050 | 0.052 | 0.050 | 0.060 | 0.047 | 0.054 | 0.056 | | | 0.053 | 7.90 |
| 20) iodomethane | 0.270 | 0.239 | 0.432 | 0.472 | 0.416 | 0.353 | 0.215 | | | | 0.342 | 29.90 |
| ----- Linear regression ----- Coefficient = 0.9941 | | | | | | | | | | | | |
| Response Ratio = -0.01368 + 0.43624 *A | | | | | | | | | | | | |
| 21) iso-butyl alcohol | 0.053 | 0.069 | 0.047 | 0.044 | 0.051 | | | | | | 0.053 | 18.51 |

# Initial Calibration Summary

**Job Number:** JD52514 **Sample:** VL10355-ICC10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342975.D
**Project:** EPT, Ithaca, NY

22) carbon disulfide
1.404 1.468 1.357 1.333 1.458 1.233 1.409 1.700 1.420 9.56
23) methylene chloride
0.537 0.584 0.510 0.512 0.528 0.470 0.506 0.653 0.537 10.54
24) methyl acetate
0.154 0.191 0.162 0.157 0.146 0.161 0.168 0.163 8.84
25) methyl tert butyl ether
1.755 1.915 1.860 1.764 1.668 1.608 1.456 1.754 1.945 1.747 8.84
26) trans-1,2-dichloroethene
0.496 0.590 0.520 0.491 0.468 0.421 0.435 0.492 0.581 0.499 11.60
27) hexane
0.677 0.775 0.691 0.696 0.687 0.737 0.632 0.693 0.734 0.702 5.85
28) di-isopropyl ether
1.423 1.597 1.561 1.418 1.338 1.254 1.168 1.428 1.576 1.418 10.39
29) ethyl tert-butyl ether
1.697 1.764 1.749 1.680 1.619 1.439 1.451 1.674 1.882 1.662 8.63
30) 2-butanone
0.121 0.139 0.140 0.123 0.120 0.105 0.114 0.122 0.136 0.125 9.40
31) 1,1-dichloroethane
0.866 0.925 0.971 0.878 0.842 0.780 0.745 0.870 1.015 0.877 9.74
32) chloroprene
0.717 0.843 0.715 0.692 0.684 0.654 0.619 0.712 0.784 0.713 9.34
33) acrylonitrile
0.265 0.275 0.288 0.290 0.325 0.283 0.292 0.288 0.288 6.02
34) vinyl acetate
0.154 0.126 0.160 0.157 0.142 0.153 0.167 0.151 8.83
35) ethyl acetate
0.130 0.138 0.117 0.115 0.109 0.124 0.151 0.126 11.48
36) 2,2-dichloropropane
0.853 0.925 0.811 0.758 0.895 0.661 0.870 1.051 0.853 13.60
37) cis-1,2-dichloroethene
0.562 0.630 0.581 0.545 0.523 0.500 0.470 0.554 0.658 0.627 0.565 10.61
38) propionitrile
0.118 0.136 0.116 0.109 0.114 0.099 0.123 0.138 0.119 10.95
39) methyl acrylate
0.142 0.170 0.139 0.132 0.126 0.146 0.172 0.147 12.16
40) bromochloromethane
0.252 0.270 0.270 0.248 0.242 0.230 0.220 0.234 0.248 0.246 6.89
41) tetrahydrofuran
0.144 0.109 0.144 0.142 0.141 0.133 0.136 0.150 0.154 0.139 9.42
42) chloroform
1.044 1.086 0.954 0.903 1.065 0.821 0.964 1.198 1.004 11.75
43) dibromofluoromethane (s)
0.454 0.444 0.453 0.458 0.455 0.446 0.445 0.459 0.459 0.443 0.452 1.43
44) methacrylonitrile
0.334 0.393 0.334 0.330 0.328 0.324 0.333 0.419 0.349 10.23
45) 1,1,1-trichloroethane
0.842 0.939 0.862 0.857 0.846 0.779 0.779 0.842 1.000 0.861 8.20
46) cyclohexane
0.748 0.817 0.779 0.748 0.750 0.999 0.704 0.767 0.807 0.801 0.792 10.14
47) 1,1-dichloropropene
0.675 0.729 0.652 0.679 0.650 0.674 0.605 0.693 0.762 0.757 0.688 7.18
48) carbon tetrachloride
0.708 0.805 0.774 0.673 0.662 0.643 0.603 0.724 0.829 0.713 10.76
49) isopropyl acetate
0.168 0.188 0.170 0.170 0.161 0.172 0.219 0.179 11.10
50) tert amyl alcohol
0.060 0.073 0.049 0.047 0.054 0.057 18.80

51) I 1,4-difluorobenzene ----------ISTD----------

52) 1,2-dichloroethane-d4 (s)
0.383 0.381 0.381 0.357 0.333 0.374 0.316 0.365 0.380 0.379 0.365 6.34
53) tert-amyl methyl ether
1.137 1.300 1.061 1.024 1.059 0.908 1.113 1.305 1.113 12.14
54) 2,2,4-trimethylpentane
0.877 0.923 0.851 0.810 0.877 0.742 0.900 1.098 0.885 11.65
55) n-butyl alcohol
0.023 0.024 0.030 0.023 0.021 0.027 0.020 0.024 0.030 0.025 15.19
56) benzene
1.287 1.447 1.415 1.239 1.197 1.249 1.064 1.303 1.514 1.302 10.63
57) heptane
0.184 0.252 0.193 0.193 0.195 0.204 0.186 0.191 0.210 0.233 0.204 10.84
58) 1,2-dichloroethane
0.497 0.544 0.479 0.449 0.506 0.405 0.488 0.562 0.491 10.17
59) trichloroethene
0.343 0.466 0.372 0.360 0.354 0.310 0.331 0.364 0.413 0.368 12.61
60) ethyl acrylate
0.586 0.709 0.594 0.559 0.588 0.509 0.600 0.737 0.610 12.38
61) 2-nitropropane
0.172 0.229 0.178 0.156 0.156 0.180 0.179 15.04
62) 2-chloroethyl vinyl ether
0.209 0.222 0.239 0.216 0.205 0.185 0.187 0.213 0.242 0.213 9.23
63) methyl methacrylate
0.128 0.167 0.139 0.133 0.127 0.140 0.160 0.142 11.06
64) 1,2-dichloropropane
0.318 0.351 0.314 0.307 0.315 0.280 0.323 0.362 0.321 7.96
65) methylcyclohexane
0.567 0.531 0.602 0.583 0.565 0.589 0.523 0.579 0.680 0.580 7.91
66) dibromomethane
0.242 0.264 0.274 0.225 0.225 0.210 0.206 0.222 0.263 0.237 10.60
67) bromodichloromethane
0.514 0.665 0.587 0.513 0.507 0.482 0.465 0.497 0.624 0.539 12.77
68) cis-1,3-dichloropropene
0.591 0.639 0.671 0.612 0.601 0.497 0.555 0.601 0.679 0.605 9.32
69) epichlorohydrin
0.064 0.081 0.066 0.065 0.062 0.067 0.083 0.070 12.29
70) 4-methyl-2-pentanone
0.205 0.248 0.266 0.208 0.194 0.224 0.175 0.217 0.272 0.223 14.67
71) 3-methyl-1-butanol
0.026 0.030 0.033 0.024 0.022 0.032 0.020 0.026 0.033 0.027 17.93

72) I chlorobenzene-d5 ----------ISTD----------
73) toluene-d8 (s)
1.390 1.434 1.402 1.312 1.298 1.428 1.296 1.337 1.433 1.432 1.376 4.30
74) toluene
0.916 1.105 1.004 0.884 0.871 0.923 0.799 0.896 1.052 0.939 10.29
75) trans-1,3-dichloropropene
0.628 0.785 0.728 0.631 0.612 0.543 0.564 0.619 0.740 0.650 12.71
76) ethyl methacrylate
0.655 0.716 0.615 0.582 0.709 0.525 0.634 0.797 0.654 13.05
77) 1,1,2-trichloroethane
0.322 0.363 0.315 0.306 0.311 0.285 0.320 0.394 0.327 10.70
78) 2-hexanone
0.244 0.307 0.319 0.231 0.211 0.280 0.186 0.244 0.319 0.260 18.63
79) tetrachloroethene
0.378 0.402 0.409 0.357 0.353 0.326 0.336 0.363 0.460 0.376 11.11
80) 1,3-dichloropropane
0.649 0.739 0.603 0.576 0.619 0.522 0.618 0.760 0.636 12.53
81) butyl acetate
0.333 0.442 0.325 0.310 0.292 0.335 0.339 15.56

82) dibromochloromethane
0.404 0.545 0.497 0.397 0.393 0.413 0.363 0.401 0.521 0.437 14.98
83) 1,2-dibromoethane
0.434 0.531 0.511 0.409 0.397 0.396 0.373 0.408 0.484 0.438 12.86
84) n-butyl ether
1.418 1.611 1.360 1.301 1.326 1.134 1.391 1.672 1.402 12.26
85) chlorobenzene
0.961 1.060 0.951 0.947 0.842 0.861 0.963 1.091 0.960 8.90
86) 1,1,1,2-tetrachloroethane
0.355 0.419 0.324 0.309 0.333 0.277 0.338 0.424 0.347 14.75
87) ethylbenzene
1.720 1.895 1.547 1.447 1.600 1.248 1.666 2.065 1.648 15.43
88) m,p-xylene
0.650 0.823 0.730 0.616 0.590 0.603 0.527 0.643 0.766 0.661 14.22
89) o-xylene
0.679 0.733 0.648 0.626 0.571 0.571 0.658 0.800 0.661 11.76
90) butyl acrylate
0.821 0.977 0.808 0.778 0.901 0.693 0.806 0.984 0.846 11.88
91) styrene
1.118 1.232 1.032 0.987 0.967 0.866 1.077 1.295 1.072 13.17
92) bromoform
0.281 0.352 0.293 0.289 0.325 0.270 0.296 0.355 0.308 10.51
93) isopropylbenzene
1.670 1.886 1.617 1.553 1.484 1.347 1.665 2.051 1.659 13.41
94) cis-1,4-dichloro-2-butene
0.095 0.120 0.124 0.140 0.154 0.107 0.123 17.13

95) I 1,4-dichlorobenzene-d ----------ISTD----------
96) 4-bromofluorobenzene (s)
1.278 1.306 1.330 1.290 1.306 1.305 1.337 1.293 1.286 1.294 1.303 1.43
97) bromobenzene
0.981 1.145 1.109 0.965 0.959 1.030 0.890 0.912 1.142 1.015 9.54
98) 1,1,2,2-tetrachloroethane
1.533 1.976 1.913 1.500 1.477 1.838 1.383 1.491 1.951 1.674 14.32
99) trans-1,4-dichloro-2-butene
0.196 0.239 0.238 0.265 0.280 0.224 0.223 0.238 11.65
100) 1,2,3-trichloropropane
0.470 0.578 0.447 0.424 0.482 0.406 0.463 0.585 0.482 13.71
101) n-propylbenzene
4.787 5.491 4.622 4.471 4.599 3.941 4.702 5.702 4.789 11.75
102) 2-chlorotoluene
0.897 1.040 0.915 0.921 0.947 0.863 0.897 1.060 0.942 7.53
103) 4-chlorotoluene
0.915 1.055 0.895 0.909 0.914 0.852 0.911 1.107 0.945 9.30
104) 1,3,5-trimethylbenzene
3.358 3.805 3.341 3.226 3.350 2.895 3.404 4.094 3.434 10.61
105) tert-butylbenzene
2.818 3.171 2.877 2.832 2.480 2.570 2.808 3.466 2.878 10.95
106) 1,2,4-trimethylbenzene
3.401 3.985 3.412 3.304 3.351 2.904 3.416 4.342 3.514 12.65
107) sec-butylbenzene
4.026 4.563 4.081 3.998 3.804 3.541 4.109 4.790 4.114 9.66
108) 1,3-dichlorobenzene
1.654 1.949 1.729 1.729 1.560 1.597 1.658 1.834 1.714 7.45
109) p-isopropyltoluene
3.275 3.624 3.217 3.098 3.001 2.711 3.233 3.793 3.244 10.50
110) 1,4-dichlorobenzene
1.564 1.956 1.873 1.669 1.644 1.451 1.527 1.579 1.860 1.680 10.45
111) 1,2,3-trimethylbenzene
3.264 3.869 3.266 3.143 3.239 2.768 3.274 3.858 3.335 10.98

# Initial Calibration Summary

**Job Number:** JD52514 **Sample:** VL10355-ICC10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342975.D
**Project:** EPT, Ithaca, NY

```
112)  1,2-dichlorobenzene
       1.598 1.973 1.827 1.616 1.590 1.595 1.469 1.559 1.947        1.686   10.76
113)  n-butylbenzene
       1.558 1.746 1.697 1.693 1.713 1.295 1.562 1.622 1.728        1.624    8.72
114)  1,2-dibromo-3-chloropropane
       0.361 0.324 0.464 0.400 0.422 0.363 0.437 0.383 0.404        0.395   10.82
115)  1,3,5-trichlorobenzene
       0.997 1.002 1.170 1.171 1.164 0.867 1.090 1.067 1.134 1.217  1.088    9.85
116)  1,2,4-trichlorobenzene
       0.802       0.853 0.989 1.000 0.678 0.968 0.893 0.863        0.881   12.30
117)  hexachlorobutadiene
       0.313       0.375 0.366 0.335       0.325 0.350 0.405        0.353    9.04
118)  naphthalene
       2.685       3.018 3.121 3.133       3.005 2.933 2.928        2.975    5.08
119)  1,2,3-trichlorobenzene
       0.751 0.770 0.799 0.854 0.890 0.621 0.863 0.796 0.834        0.798   10.05
120)  hexachloroethane
       0.632 0.625 0.654 0.669 0.700 0.630 0.652 0.653 0.764 0.748  0.673    7.29
121)  benzyl chloride
       2.810       3.479 2.876 2.791       2.570 2.897              2.904   10.50
122)  2-methylnaphthalene *This compounds fails Initial Calibration criteria*
       0.445             1.206 1.362       1.477 0.835              1.065   39.71

123)     pentafluorobenzene(a) ----------------ISTD---------------------
124)  Freon 142B
       0.845       0.996 0.887 0.881 1.116 0.838 0.897 1.200        0.957   14.06
125)  vinyl bromide
       0.183       0.176 0.189 0.184 0.169 0.181 0.190 0.205        0.185    5.79
126)  allyl chloride
       0.283       0.340 0.300 0.310 0.304 0.297 0.320 0.366        0.315    8.49

127)     1,4-dichlorobenzene-d ----------------ISTD---------------------
128)  4-ethyltoluene
       3.638       4.310 4.147 3.825 4.179 3.337 4.131 4.618        4.023   10.05
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           ML10355.M         Thu Jun 30 17:58:11 2022   1
```

# Initial Calibration Verification



**Job Number:** JD52514 **Sample:** VL10355-ICV10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342980.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VL10355\L342980.D Vial: 14
Acq On : 15 Jun 2022 9:06 pm Operator: BridgetK
Sample : icv10355-50 Inst : GCMSL
Misc : MS59602,VL10355,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10355.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Fri Jun 17 18:01:43 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 92 | 0.00 | 3.09 |
| 2 | | 1,4-dioxane | 0.130 | 0.131 | -0.8 | 100 | 0.00 | 5.32 |
| 3 | | ethanol | 0.125 | 0.129 | -3.2 | 104 | 0.00 | 2.52 |
| 4 | M | tertiary butyl alcohol | 1.532 | 1.459 | 4.8 | 96 | 0.00 | 3.15 |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 97 | 0.00 | 4.31 |
| 6 | | chlorodifluoromethane | | ----------NA---------- | | | | |
| 7 | | dichlorodifluoromethane | 0.816 | 1.042 | -27.7 | 124 | 0.00 | 1.65 |
| 8 | | chloromethane | 0.546 | 0.632 | -15.8 | 114 | 0.00 | 1.82 |
| 9 | | vinyl chloride | 0.673 | 0.782 | -16.2 | 117 | 0.00 | 1.90 |
| 10 | | 1,3-butadiene | 0.662 | 0.795 | -20.1 | 117 | 0.00 | 1.93 |
| 11 | | bromomethane | 0.280 | 0.361 | -28.9 | 127 | 0.00 | 2.15 |
| 12 | | chloroethane | 0.394 | 0.439 | -11.4 | 116 | 0.00 | 2.23 |
| 13 | | trichlorofluoromethane | 0.941 | 1.068 | -13.5 | 112 | 0.00 | 2.42 |
| 14 | | ethyl ether | 0.329 | 0.353 | -7.3 | 98 | 0.00 | 2.61 |
| 15 | | acrolein | 0.119 | 0.089 | 25.2 | 74 | 0.00 | 2.71 |
| 16 | | freon 113 | 0.371 | 0.397 | -7.0 | 101 | 0.00 | 2.78 |
| 17 | | 1,1-dichloroethene | 0.462 | 0.479 | -3.7 | 100 | 0.00 | 2.79 |
| 18 | | acetone | 0.081 | 0.077 | 4.9 | 94 | 0.00 | 2.80 |
| 19 | | acetonitrile | | ----------NA---------- | | | | |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | | iodomethane | 50.000 | 45.519 | 9.0 | 86 | 0.00 | 2.91 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | | iso-butyl alcohol | 0.053 | 0.048 | 9.4 | 99 | 0.00 | 4.47 |
| 22 | | carbon disulfide | 1.420 | 1.470 | -3.5 | 106 | 0.00 | 2.96 |
| 23 | | methylene chloride | 0.537 | 0.524 | 2.4 | 100 | 0.00 | 3.12 |
| 24 | | methyl acetate | 0.163 | 0.164 | -0.6 | 99 | 0.00 | 3.01 |
| 25 | | methyl tert butyl ether | 1.747 | 1.816 | -3.9 | 100 | 0.00 | 3.29 |
| 26 | | trans-1,2-dichloroethene | 0.499 | 0.516 | -3.4 | 102 | 0.00 | 3.31 |
| 27 | | hexane | 0.702 | 0.768 | -9.4 | 108 | 0.00 | 3.49 |
| 28 | | di-isopropyl ether | 1.418 | 1.422 | -0.3 | 98 | 0.00 | 3.60 |
| 29 | | ethyl tert-butyl ether | 1.662 | 1.629 | 2.0 | 94 | 0.00 | 3.84 |
| 30 | | 2-butanone | 0.125 | 0.132 | -5.6 | 105 | 0.00 | 3.96 |
| 31 | M | 1,1-dichloroethane | 0.877 | 0.897 | -2.3 | 100 | 0.00 | 3.61 |
| 32 | | chloroprene | 0.713 | 0.764 | -7.2 | 108 | 0.00 | 3.66 |
| 33 | | acrylonitrile | | ----------NA---------- | | | | |
| 34 | | vinyl acetate | 0.151 | 0.147 | 2.6 | 90 | 0.00 | 3.58 |
| 35 | | ethyl acetate | 0.126 | 0.121 | 4.0 | 100 | 0.00 | 3.97 |
| 36 | | 2,2-dichloropropane | 0.853 | 0.836 | 2.0 | 100 | 0.00 | 4.00 |
| 37 | | cis-1,2-dichloroethene | 0.565 | 0.563 | 0.4 | 101 | 0.00 | 3.99 |

# Initial Calibration Verification

**Job Number:** JD52514 **Sample:** VL10355-ICV10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342980.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | | propionitrile | 0.119 | 0.113 | 5.0 | 95 | 0.00 | 4.01 |
| 39 | | methyl acrylate | 0.147 | 0.138 | 6.1 | 96 | 0.00 | 4.02 |
| 40 | | bromochloromethane | 0.246 | 0.257 | -4.5 | 101 | 0.00 | 4.16 |
| 41 | | tetrahydrofuran | 0.139 | 0.144 | -3.6 | 99 | 0.00 | 4.17 |
| 42 | | chloroform | 1.004 | 0.980 | 2.4 | 100 | 0.00 | 4.21 |
| 43 | S | dibromofluoromethane (s) | 0.452 | 0.453 | -0.2 | 96 | 0.00 | 4.33 |
| 44 | | methacrylonitrile | 0.349 | 0.347 | 0.6 | 101 | 0.00 | 4.12 |
| 45 | | 1,1,1-trichloroethane | 0.861 | 0.887 | -3.0 | 101 | 0.00 | 4.35 |
| 46 | | cyclohexane | 0.792 | 0.838 | -5.8 | 109 | 0.00 | 4.41 |
| 47 | | 1,1-dichloropropene | 0.688 | 0.722 | -4.9 | 104 | 0.00 | 4.46 |
| 48 | | carbon tetrachloride | 0.713 | 0.720 | -1.0 | 104 | 0.00 | 4.47 |
| 49 | | isopropyl acetate | 0.179 | 0.181 | -1.1 | 104 | 0.00 | 4.58 |
| 50 | | tert amyl alcohol | 0.057 | 0.050 | 12.3 | 99 | 0.00 | 4.56 |
| 51 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 99 | 0.00 | 4.89 |
| 52 | S | 1,2-dichloroethane-d4 (s) | 0.365 | 0.346 | 5.2 | 96 | 0.00 | 4.58 |
| 53 | | tert-amyl methyl ether | 1.113 | 1.035 | 7.0 | 96 | 0.00 | 4.67 |
| 54 | | 2,2,4-trimethylpentane | 0.885 | 0.865 | 2.3 | 100 | 0.00 | 4.67 |
| 55 | | n-butyl alcohol | 0.025 | 0.023 | 8.0 | 98 | 0.00 | 4.94 |
| 56 | M | benzene | 1.302 | 1.319 | -1.3 | 105 | 0.00 | 4.61 |
| 57 | | heptane | 0.204 | 0.211 | -3.4 | 108 | 0.00 | 4.78 |
| 58 | | 1,2-dichloroethane | 0.491 | 0.480 | 2.2 | 99 | 0.00 | 4.64 |
| 59 | | trichloroethene | 0.368 | 0.373 | -1.4 | 102 | 0.00 | 5.08 |
| 60 | | ethyl acrylate | 0.610 | 0.574 | 5.9 | 95 | 0.00 | 5.09 |
| 61 | | 2-nitropropane | 0.179 | 0.173 | 3.4 | 96 | 0.00 | 5.63 |
| 62 | | 2-chloroethyl vinyl ether | 0.213 | 0.236 | -10.8 | 108 | 0.00 | 5.66 |
| 63 | | methyl methacrylate | 0.142 | 0.136 | 4.2 | 97 | 0.00 | 5.28 |
| 64 | | 1,2-dichloropropane | 0.321 | 0.309 | 3.7 | 97 | 0.00 | 5.28 |
| 65 | | methylcyclohexane | 0.580 | 0.594 | -2.4 | 101 | 0.00 | 5.27 |
| 66 | | dibromomethane | 0.237 | 0.230 | 3.0 | 101 | 0.00 | 5.35 |
| 67 | | bromodichloromethane | 0.539 | 0.529 | 1.9 | 102 | 0.00 | 5.47 |
| 68 | | cis-1,3-dichloropropene | 0.605 | 0.609 | -0.7 | 98 | 0.00 | 5.80 |
| 69 | | epichlorohydrin | 0.070 | 0.066 | 5.7 | 99 | 0.00 | 5.71 |
| 70 | | 4-methyl-2-pentanone | 0.223 | 0.210 | 5.8 | 99 | 0.00 | 5.90 |
| 71 | | 3-methyl-1-butanol | 0.027 | 0.025 | 7.4 | 101 | 0.00 | 5.92 |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 98 | 0.00 | 7.28 |
| 73 | S | toluene-d8 (s) | 1.376 | 1.302 | 5.4 | 97 | 0.00 | 6.03 |
| 74 | | toluene | 0.939 | 0.916 | 2.4 | 101 | 0.00 | 6.09 |
| 75 | | trans-1,3-dichloropropene | 0.650 | 0.635 | 2.3 | 98 | 0.00 | 6.26 |
| 76 | | ethyl methacrylate | 0.654 | 0.624 | 4.6 | 99 | 0.00 | 6.28 |
| 77 | | 1,1,2-trichloroethane | 0.327 | 0.321 | 1.8 | 99 | 0.00 | 6.43 |
| 78 | | 2-hexanone | 0.260 | 0.229 | 11.9 | 97 | 0.00 | 6.59 |
| 79 | | tetrachloroethene | | ----------NA---------- | | | | |
| 80 | | 1,3-dichloropropane | 0.636 | 0.623 | 2.0 | 101 | 0.00 | 6.57 |
| 81 | | butyl acetate | 0.339 | 0.337 | 0.6 | 101 | 0.00 | 6.67 |
| 82 | | dibromochloromethane | 0.437 | 0.414 | 5.3 | 102 | 0.00 | 6.76 |
| 83 | | 1,2-dibromoethane | 0.438 | 0.421 | 3.9 | 100 | 0.00 | 6.88 |
| 84 | | n-butyl ether | 1.402 | 1.372 | 2.1 | 98 | 0.00 | 7.35 |
| 85 | | chlorobenzene | 0.960 | 0.992 | -3.3 | 102 | 0.00 | 7.31 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.347 | 0.338 | 2.6 | 102 | 0.00 | 7.38 |
| 87 | | ethylbenzene | 1.648 | 1.649 | -0.1 | 104 | 0.00 | 7.38 |
| 88 | | m,p-xylene | 0.661 | 0.649 | 1.8 | 103 | 0.00 | 7.49 |
| 89 | | o-xylene | 0.661 | 0.667 | -0.9 | 100 | 0.00 | 7.85 |
| 90 | | butyl acrylate | 0.846 | 0.832 | 1.7 | 100 | 0.00 | 7.76 |
| 91 | | styrene | 1.072 | 1.082 | -0.9 | 102 | 0.00 | 7.86 |
| 92 | | bromoform | 0.308 | 0.305 | 1.0 | 102 | 0.00 | 8.04 |
| 93 | | isopropylbenzene | 1.659 | 1.726 | -4.0 | 104 | 0.00 | 8.18 |
| 94 | | cis-1,4-dichloro-2-butene | 0.123 | 0.141 | -14.6 | 111 | 0.00 | 8.24 |

# Initial Calibration Verification

**Job Number:** JD52514 **Sample:** VL10355-ICV10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342980.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 95 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 96 | 0.00 | 9.47 |
| 96 | S | 4-bromofluorobenzene (s) | 1.303 | 1.306 | -0.2 | 97 | 0.00 | 8.35 |
| 97 | | bromobenzene | 1.015 | 1.016 | -0.1 | 101 | 0.00 | 8.50 |
| 98 | | 1,1,2,2-tetrachloroethane | 1.674 | 1.560 | 6.8 | 100 | 0.00 | 8.47 |
| 99 | | trans-1,4-dichloro-2-bute | 0.238 | 0.284 | -19.3 | 115 | 0.00 | 8.50 |
| 100 | | 1,2,3-trichloropropane | 0.482 | 0.464 | 3.7 | 100 | 0.00 | 8.53 |
| 101 | | n-propylbenzene | 4.789 | 4.981 | -4.0 | 103 | 0.00 | 8.58 |
| 102 | | 2-chlorotoluene | 0.942 | 0.978 | -3.8 | 103 | 0.00 | 8.68 |
| 103 | | 4-chlorotoluene | 0.945 | 0.961 | -1.7 | 103 | 0.00 | 8.79 |
| 104 | | 1,3,5-trimethylbenzene | 3.434 | 3.538 | -3.0 | 102 | 0.00 | 8.75 |
| 105 | | tert-butylbenzene | 2.878 | 3.192 | -10.9 | 106 | 0.00 | 9.05 |
| 106 | | 1,2,4-trimethylbenzene | 3.514 | 3.426 | 2.5 | 96 | 0.00 | 9.11 |
| 107 | | sec-butylbenzene | 4.114 | 4.344 | -5.6 | 102 | 0.00 | 9.27 |
| 108 | | 1,3-dichlorobenzene | 1.714 | 1.784 | -4.1 | 99 | 0.00 | 9.39 |
| 109 | | p-isopropyltoluene | 3.244 | 3.394 | -4.6 | 101 | 0.00 | 9.41 |
| 110 | | 1,4-dichlorobenzene | 1.680 | 1.714 | -2.0 | 99 | 0.00 | 9.49 |
| 111 | | 1,2,3-trimethylbenzene | | ----------NA---------- | | | | |
| 112 | | 1,2-dichlorobenzene | 1.686 | 1.660 | 1.5 | 99 | 0.00 | 9.84 |
| 113 | | n-butylbenzene | 1.624 | 1.808 | -11.3 | 103 | 0.00 | 9.81 |
| 114 | | 1,2-dibromo-3-chloropropa | 0.395 | 0.424 | -7.3 | 102 | 0.00 | 10.62 |
| 115 | | 1,3,5-trichlorobenzene | 1.088 | 1.228 | -12.9 | 101 | 0.00 | 10.80 |
| 116 | | 1,2,4-trichlorobenzene | 0.881 | 1.009 | -14.5 | 98 | 0.00 | 11.43 |
| 117 | | hexachlorobutadiene | 0.353 | 0.385 | -9.1 | 101 | 0.00 | 11.57 |
| 118 | | naphthalene | 2.975 | 3.168 | -6.5 | 97 | 0.00 | 11.69 |
| 119 | | 1,2,3-trichlorobenzene | 0.798 | 0.887 | -11.2 | 100 | 0.00 | 11.91 |
| 120 | | hexachloroethane | 0.673 | 0.713 | -5.9 | 102 | 0.00 | 10.11 |
| 121 | | benzyl chloride | 2.904 | 2.801 | 3.5 | 93 | 0.00 | 9.60 |
| 122 | | 2-methylnaphthalene | 1.065 | 1.194 | -12.1 | 95 | 0.00 | 12.82 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L342975.D ML10355.M Fri Jun 17 18:03:45 2022 1

# Initial Calibration Verification



**Job Number:** JD52514 **Sample:** VL10355-ICV10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342981.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VL10355\L342981.D Vial: 15
Acq On : 15 Jun 2022 9:29 pm Operator: BridgetK
Sample : icv10355-50 Inst : GCMSL
Misc : MS59602,VL10355,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10355.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Fri Jun 17 18:01:43 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 3.09 |
| 2 | | 1,4-dioxane | | ----------NA---------- | | | | |
| 3 | | ethanol | | ----------NA---------- | | | | |
| 4 | M | tertiary butyl alcohol | | ----------NA---------- | | | | |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 112 | 0.00 | 4.31 |
| 6 | | chlorodifluoromethane | 0.559 | 0.256 | 54.2# | 52 | 0.00 | 1.67 |
| 7 | | dichlorodifluoromethane | | ----------NA---------- | | | | |
| 8 | | chloromethane | | ----------NA---------- | | | | |
| 9 | | vinyl chloride | | ----------NA---------- | | | | |
| 10 | | 1,3-butadiene | | ----------NA---------- | | | | |
| 11 | | bromomethane | | ----------NA---------- | | | | |
| 12 | | chloroethane | | ----------NA---------- | | | | |
| 13 | | trichlorofluoromethane | | ----------NA---------- | | | | |
| 14 | | ethyl ether | | ----------NA---------- | | | | |
| 15 | | acrolein | | ----------NA---------- | | | | |
| 16 | | freon 113 | | ----------NA---------- | | | | |
| 17 | | 1,1-dichloroethene | | ----------NA---------- | | | | |
| 18 | | acetone | | ----------NA---------- | | | | |
| 19 | | acetonitrile | 0.053 | 0.056 | -5.7 | 120 | 0.00 | 2.99 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | | iodomethane | | ----------NA---------- | | | | |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | | iso-butyl alcohol | | ----------NA---------- | | | | |
| 22 | | carbon disulfide | | ----------NA---------- | | | | |
| 23 | | methylene chloride | | ----------NA---------- | | | | |
| 24 | | methyl acetate | | ----------NA---------- | | | | |
| 25 | | methyl tert butyl ether | | ----------NA---------- | | | | |
| 26 | | trans-1,2-dichloroethene | | ----------NA---------- | | | | |
| 27 | | hexane | | ----------NA---------- | | | | |
| 28 | | di-isopropyl ether | | ----------NA---------- | | | | |
| 29 | | ethyl tert-butyl ether | | ----------NA---------- | | | | |
| 30 | | 2-butanone | | ----------NA---------- | | | | |
| 31 | M | 1,1-dichloroethane | | ----------NA---------- | | | | |
| 32 | | chloroprene | | ----------NA---------- | | | | |
| 33 | | acrylonitrile | 0.288 | 0.264 | 8.3 | 102 | 0.00 | 3.27 |
| 34 | | vinyl acetate | | ----------NA---------- | | | | |
| 35 | | ethyl acetate | | ----------NA---------- | | | | |
| 36 | | 2,2-dichloropropane | | ----------NA---------- | | | | |
| 37 | | cis-1,2-dichloroethene | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52514 **Sample:** VL10355-ICV10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342981.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | | propionitrile | | ----------NA---------- | | | | |
| 39 | | methyl acrylate | | ----------NA---------- | | | | |
| 40 | | bromochloromethane | | ----------NA---------- | | | | |
| 41 | | tetrahydrofuran | | ----------NA---------- | | | | |
| 42 | | chloroform | | ----------NA---------- | | | | |
| 43 | S | dibromofluoromethane (s) | 0.452 | 0.449 | 0.7 | 109 | 0.00 | 4.32 |
| 44 | | methacrylonitrile | | ----------NA---------- | | | | |
| 45 | | 1,1,1-trichloroethane | | ----------NA---------- | | | | |
| 46 | | cyclohexane | | ----------NA---------- | | | | |
| 47 | | 1,1-dichloropropene | | ----------NA---------- | | | | |
| 48 | | carbon tetrachloride | | ----------NA---------- | | | | |
| 49 | | isopropyl acetate | | ----------NA---------- | | | | |
| 50 | | tert amyl alcohol | | ----------NA---------- | | | | |
| 51 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 109 | 0.00 | 4.88 |
| 52 | S | 1,2-dichloroethane-d4 (s) | 0.365 | 0.383 | -4.9 | 117 | 0.00 | 4.58 |
| 53 | | tert-amyl methyl ether | | ----------NA---------- | | | | |
| 54 | | 2,2,4-trimethylpentane | | ----------NA---------- | | | | |
| 55 | | n-butyl alcohol | | ----------NA---------- | | | | |
| 56 | M | benzene | | ----------NA---------- | | | | |
| 57 | | heptane | | ----------NA---------- | | | | |
| 58 | | 1,2-dichloroethane | | ----------NA---------- | | | | |
| 59 | | trichloroethene | | ----------NA---------- | | | | |
| 60 | | ethyl acrylate | | ----------NA---------- | | | | |
| 61 | | 2-nitropropane | | ----------NA---------- | | | | |
| 62 | | 2-chloroethyl vinyl ether | | ----------NA---------- | | | | |
| 63 | | methyl methacrylate | | ----------NA---------- | | | | |
| 64 | | 1,2-dichloropropane | | ----------NA---------- | | | | |
| 65 | | methylcyclohexane | | ----------NA---------- | | | | |
| 66 | | dibromomethane | | ----------NA---------- | | | | |
| 67 | | bromodichloromethane | | ----------NA---------- | | | | |
| 68 | | cis-1,3-dichloropropene | | ----------NA---------- | | | | |
| 69 | | epichlorohydrin | | ----------NA---------- | | | | |
| 70 | | 4-methyl-2-pentanone | | ----------NA---------- | | | | |
| 71 | | 3-methyl-1-butanol | | ----------NA---------- | | | | |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 99 | 0.00 | 7.28 |
| 73 | S | toluene-d8 (s) | 1.376 | 1.459 | -6.0 | 110 | 0.00 | 6.03 |
| 74 | | toluene | | ----------NA---------- | | | | |
| 75 | | trans-1,3-dichloropropene | | ----------NA---------- | | | | |
| 76 | | ethyl methacrylate | | ----------NA---------- | | | | |
| 77 | | 1,1,2-trichloroethane | | ----------NA---------- | | | | |
| 78 | | 2-hexanone | | ----------NA---------- | | | | |
| 79 | | tetrachloroethene | 0.376 | 0.401 | -6.6 | 111 | 0.00 | 6.53 |
| 80 | | 1,3-dichloropropane | | ----------NA---------- | | | | |
| 81 | | butyl acetate | | ----------NA---------- | | | | |
| 82 | | dibromochloromethane | | ----------NA---------- | | | | |
| 83 | | 1,2-dibromoethane | | ----------NA---------- | | | | |
| 84 | | n-butyl ether | | ----------NA---------- | | | | |
| 85 | | chlorobenzene | | ----------NA---------- | | | | |
| 86 | | 1,1,1,2-tetrachloroethane | | ----------NA---------- | | | | |
| 87 | | ethylbenzene | | ----------NA---------- | | | | |
| 88 | | m,p-xylene | | ----------NA---------- | | | | |
| 89 | | o-xylene | | ----------NA---------- | | | | |
| 90 | | butyl acrylate | | ----------NA---------- | | | | |
| 91 | | styrene | | ----------NA---------- | | | | |
| 92 | | bromoform | | ----------NA---------- | | | | |
| 93 | | isopropylbenzene | | ----------NA---------- | | | | |
| 94 | | cis-1,4-dichloro-2-butene | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52514 **Sample:** VL10355-ICV10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342981.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 95 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 9.47 |
| 96 | S | 4-bromofluorobenzene (s) | 1.303 | 1.318 | -1.2 | 105 | 0.00 | 8.35 |
| 97 | | bromobenzene | | ----------NA---------- | | | | |
| 98 | | 1,1,2,2-tetrachloroethane | | ----------NA---------- | | | | |
| 99 | | trans-1,4-dichloro-2-bute | | ----------NA---------- | | | | |
| 100 | | 1,2,3-trichloropropane | | ----------NA---------- | | | | |
| 101 | | n-propylbenzene | | ----------NA---------- | | | | |
| 102 | | 2-chlorotoluene | | ----------NA---------- | | | | |
| 103 | | 4-chlorotoluene | | ----------NA---------- | | | | |
| 104 | | 1,3,5-trimethylbenzene | | ----------NA---------- | | | | |
| 105 | | tert-butylbenzene | | ----------NA---------- | | | | |
| 106 | | 1,2,4-trimethylbenzene | | ----------NA---------- | | | | |
| 107 | | sec-butylbenzene | | ----------NA---------- | | | | |
| 108 | | 1,3-dichlorobenzene | | ----------NA---------- | | | | |
| 109 | | p-isopropyltoluene | | ----------NA---------- | | | | |
| 110 | | 1,4-dichlorobenzene | | ----------NA---------- | | | | |
| 111 | | 1,2,3-trimethylbenzene | 3.335 | 3.645 | -9.3 | 115 | 0.00 | 9.51 |
| 112 | | 1,2-dichlorobenzene | | ----------NA---------- | | | | |
| 113 | | n-butylbenzene | | ----------NA---------- | | | | |
| 114 | | 1,2-dibromo-3-chloropropa | | ----------NA---------- | | | | |
| 115 | | 1,3,5-trichlorobenzene | | ----------NA---------- | | | | |
| 116 | | 1,2,4-trichlorobenzene | | ----------NA---------- | | | | |
| 117 | | hexachlorobutadiene | | ----------NA---------- | | | | |
| 118 | | naphthalene | | ----------NA---------- | | | | |
| 119 | | 1,2,3-trichlorobenzene | | ----------NA---------- | | | | |
| 120 | | hexachloroethane | | ----------NA---------- | | | | |
| 121 | | benzyl chloride | | ----------NA---------- | | | | |
| 122 | | 2-methylnaphthalene | | ----------NA---------- | | | | |

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

L342975.D ML10355.M Fri Jun 17 18:03:47 2022 1

# Initial Calibration Verification



**Job Number:** JD52514 **Sample:** VL10355-ICV10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342985.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VL10355\L342985.D Vial: 19
Acq On : 16 Jun 2022 10:06 am Operator: BridgetK
Sample : icv10355-50 Inst : GCMSL
Misc : MS59602,VL10355,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10355.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Fri Jun 17 18:01:43 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 118 | 0.00 | 3.09 |
| 2 | | 1,4-dioxane | | ----------NA---------- | | | | |
| 3 | | ethanol | | ----------NA---------- | | | | |
| 4 | M | tertiary butyl alcohol | | ----------NA---------- | | | | |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 113 | 0.00 | 4.31 |
| 6 | | chlorodifluoromethane | 0.559 | 0.485 | 13.2 | 100 | 0.00 | 1.67 |
| 7 | | dichlorodifluoromethane | | ----------NA---------- | | | | |
| 8 | | chloromethane | | ----------NA---------- | | | | |
| 9 | | vinyl chloride | | ----------NA---------- | | | | |
| 10 | | 1,3-butadiene | | ----------NA---------- | | | | |
| 11 | | bromomethane | | ----------NA---------- | | | | |
| 12 | | chloroethane | | ----------NA---------- | | | | |
| 13 | | trichlorofluoromethane | | ----------NA---------- | | | | |
| 14 | | ethyl ether | | ----------NA---------- | | | | |
| 15 | | acrolein | | ----------NA---------- | | | | |
| 16 | | freon 113 | | ----------NA---------- | | | | |
| 17 | | 1,1-dichloroethene | | ----------NA---------- | | | | |
| 18 | | acetone | | ----------NA---------- | | | | |
| 19 | | acetonitrile | | ----------NA---------- | | | | |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | | iodomethane | | ----------NA---------- | | | | |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | | iso-butyl alcohol | | ----------NA---------- | | | | |
| 22 | | carbon disulfide | | ----------NA---------- | | | | |
| 23 | | methylene chloride | | ----------NA---------- | | | | |
| 24 | | methyl acetate | | ----------NA---------- | | | | |
| 25 | | methyl tert butyl ether | | ----------NA---------- | | | | |
| 26 | | trans-1,2-dichloroethene | | ----------NA---------- | | | | |
| 27 | | hexane | | ----------NA---------- | | | | |
| 28 | | di-isopropyl ether | | ----------NA---------- | | | | |
| 29 | | ethyl tert-butyl ether | | ----------NA---------- | | | | |
| 30 | | 2-butanone | | ----------NA---------- | | | | |
| 31 | M | 1,1-dichloroethane | | ----------NA---------- | | | | |
| 32 | | chloroprene | | ----------NA---------- | | | | |
| 33 | | acrylonitrile | | ----------NA---------- | | | | |
| 34 | | vinyl acetate | | ----------NA---------- | | | | |
| 35 | | ethyl acetate | | ----------NA---------- | | | | |
| 36 | | 2,2-dichloropropane | | ----------NA---------- | | | | |
| 37 | | cis-1,2-dichloroethene | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52514 **Sample:** VL10355-ICV10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342985.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | | propionitrile | | ----------NA---------- | | | | |
| 39 | | methyl acrylate | | ----------NA---------- | | | | |
| 40 | | bromochloromethane | | ----------NA---------- | | | | |
| 41 | | tetrahydrofuran | | ----------NA---------- | | | | |
| 42 | | chloroform | | ----------NA---------- | | | | |
| 43 | S | dibromofluoromethane (s) | 0.452 | 0.455 | -0.7 | 112 | 0.00 | 4.32 |
| 44 | | methacrylonitrile | | ----------NA---------- | | | | |
| 45 | | 1,1,1-trichloroethane | | ----------NA---------- | | | | |
| 46 | | cyclohexane | | ----------NA---------- | | | | |
| 47 | | 1,1-dichloropropene | | ----------NA---------- | | | | |
| 48 | | carbon tetrachloride | | ----------NA---------- | | | | |
| 49 | | isopropyl acetate | | ----------NA---------- | | | | |
| 50 | | tert amyl alcohol | | ----------NA---------- | | | | |
| 51 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 109 | 0.00 | 4.88 |
| 52 | S | 1,2-dichloroethane-d4 (s) | 0.365 | 0.395 | -8.2 | 120 | 0.00 | 4.57 |
| 53 | | tert-amyl methyl ether | | ----------NA---------- | | | | |
| 54 | | 2,2,4-trimethylpentane | | ----------NA---------- | | | | |
| 55 | | n-butyl alcohol | | ----------NA---------- | | | | |
| 56 | M | benzene | | ----------NA---------- | | | | |
| 57 | | heptane | | ----------NA---------- | | | | |
| 58 | | 1,2-dichloroethane | | ----------NA---------- | | | | |
| 59 | | trichloroethene | | ----------NA---------- | | | | |
| 60 | | ethyl acrylate | | ----------NA---------- | | | | |
| 61 | | 2-nitropropane | | ----------NA---------- | | | | |
| 62 | | 2-chloroethyl vinyl ether | | ----------NA---------- | | | | |
| 63 | | methyl methacrylate | | ----------NA---------- | | | | |
| 64 | | 1,2-dichloropropane | | ----------NA---------- | | | | |
| 65 | | methylcyclohexane | | ----------NA---------- | | | | |
| 66 | | dibromomethane | | ----------NA---------- | | | | |
| 67 | | bromodichloromethane | | ----------NA---------- | | | | |
| 68 | | cis-1,3-dichloropropene | | ----------NA---------- | | | | |
| 69 | | epichlorohydrin | | ----------NA---------- | | | | |
| 70 | | 4-methyl-2-pentanone | | ----------NA---------- | | | | |
| 71 | | 3-methyl-1-butanol | | ----------NA---------- | | | | |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 7.28 |
| 73 | S | toluene-d8 (s) | 1.376 | 1.447 | -5.2 | 112 | 0.00 | 6.02 |
| 74 | | toluene | | ----------NA---------- | | | | |
| 75 | | trans-1,3-dichloropropene | | ----------NA---------- | | | | |
| 76 | | ethyl methacrylate | | ----------NA---------- | | | | |
| 77 | | 1,1,2-trichloroethane | | ----------NA---------- | | | | |
| 78 | | 2-hexanone | | ----------NA---------- | | | | |
| 79 | | tetrachloroethene | | ----------NA---------- | | | | |
| 80 | | 1,3-dichloropropane | | ----------NA---------- | | | | |
| 81 | | butyl acetate | | ----------NA---------- | | | | |
| 82 | | dibromochloromethane | | ----------NA---------- | | | | |
| 83 | | 1,2-dibromoethane | | ----------NA---------- | | | | |
| 84 | | n-butyl ether | | ----------NA---------- | | | | |
| 85 | | chlorobenzene | | ----------NA---------- | | | | |
| 86 | | 1,1,1,2-tetrachloroethane | | ----------NA---------- | | | | |
| 87 | | ethylbenzene | | ----------NA---------- | | | | |
| 88 | | m,p-xylene | | ----------NA---------- | | | | |
| 89 | | o-xylene | | ----------NA---------- | | | | |
| 90 | | butyl acrylate | | ----------NA---------- | | | | |
| 91 | | styrene | | ----------NA---------- | | | | |
| 92 | | bromoform | | ----------NA---------- | | | | |
| 93 | | isopropylbenzene | | ----------NA---------- | | | | |
| 94 | | cis-1,4-dichloro-2-butene | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52514 **Sample:** VL10355-ICV10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342985.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 95 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 9.47 |
| 96 | S | 4-bromofluorobenzene (s) | 1.303 | 1.300 | 0.2 | 105 | 0.00 | 8.35 |
| 97 | | bromobenzene | ----------NA---------- | | | | | |
| 98 | | 1,1,2,2-tetrachloroethane | ----------NA---------- | | | | | |
| 99 | | trans-1,4-dichloro-2-bute | ----------NA---------- | | | | | |
| 100 | | 1,2,3-trichloropropane | ----------NA---------- | | | | | |
| 101 | | n-propylbenzene | ----------NA---------- | | | | | |
| 102 | | 2-chlorotoluene | ----------NA---------- | | | | | |
| 103 | | 4-chlorotoluene | ----------NA---------- | | | | | |
| 104 | | 1,3,5-trimethylbenzene | ----------NA---------- | | | | | |
| 105 | | tert-butylbenzene | ----------NA---------- | | | | | |
| 106 | | 1,2,4-trimethylbenzene | ----------NA---------- | | | | | |
| 107 | | sec-butylbenzene | ----------NA---------- | | | | | |
| 108 | | 1,3-dichlorobenzene | ----------NA---------- | | | | | |
| 109 | | p-isopropyltoluene | ----------NA---------- | | | | | |
| 110 | | 1,4-dichlorobenzene | ----------NA---------- | | | | | |
| 111 | | 1,2,3-trimethylbenzene | ----------NA---------- | | | | | |
| 112 | | 1,2-dichlorobenzene | ----------NA---------- | | | | | |
| 113 | | n-butylbenzene | ----------NA---------- | | | | | |
| 114 | | 1,2-dibromo-3-chloropropa | ----------NA---------- | | | | | |
| 115 | | 1,3,5-trichlorobenzene | ----------NA---------- | | | | | |
| 116 | | 1,2,4-trichlorobenzene | ----------NA---------- | | | | | |
| 117 | | hexachlorobutadiene | ----------NA---------- | | | | | |
| 118 | | naphthalene | ----------NA---------- | | | | | |
| 119 | | 1,2,3-trichlorobenzene | ----------NA---------- | | | | | |
| 120 | | hexachloroethane | ----------NA---------- | | | | | |
| 121 | | benzyl chloride | ----------NA---------- | | | | | |
| 122 | | 2-methylnaphthalene | ----------NA---------- | | | | | |

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

L342975.D ML10355.M Fri Jun 17 18:03:49 2022 1

# Continuing Calibration Summary



**Job Number:** JD52514 **Sample:** VL10517-CC10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L347768.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\kr...022\vl10517\l347768.d Vial: 3
Acq On : 3 Oct 2022 11:43 am Operator: nicoleh
Sample : cc10355-20 Inst : GCMSL
Misc : MS62644,VL10517,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10355.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Thu Jun 23 18:51:37 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 59 | 0.00 | 3.09 |
| 2 | | 1,4-dioxane | 0.130 | 0.032 | 75.4# | 16# | 0.00 | 5.31 |
| 3 | | ethanol | 0.125 | 0.045 | 64.0# | 23# | 0.00 | 2.51 |
| 4 | M | tertiary butyl alcohol | 1.532 | 1.456 | 5.0 | 64 | 0.00 | 3.14 |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 98 | 0.00 | 4.31 |
| 6 | | chlorodifluoromethane | 0.559 | 0.282 | 49.6# | 50# | 0.00 | 1.68 |
| 7 | | dichlorodifluoromethane | 0.816 | 0.787 | 3.6 | 95 | 0.00 | 1.66 |
| 8 | | chloromethane | 0.546 | 0.522 | 4.4 | 94 | 0.00 | 1.82 |
| 9 | | vinyl chloride | 0.673 | 0.631 | 6.2 | 94 | 0.00 | 1.90 |
| 10 | | 1,3-butadiene | 0.662 | 0.333 | 49.7# | 47# | 0.00 | 1.93 |
| 11 | | bromomethane | 0.280 | 0.213 | 23.9# | 81 | 0.00 | 2.16 |
| 12 | | chloroethane | 0.394 | 0.339 | 14.0 | 92 | 0.00 | 2.23 |
| 13 | | trichlorofluoromethane | 0.941 | 0.945 | -0.4 | 98 | 0.00 | 2.42 |
| 14 | | ethyl ether | 0.329 | 0.328 | 0.3 | 92 | 0.00 | 2.60 |
| 15 | | acrolein | 0.119 | 0.163 | -37.0# | 139 | 0.00 | 2.71 |
| 16 | | freon 113 | 0.371 | 0.394 | -6.2 | 103 | 0.00 | 2.78 |
| 17 | | 1,1-dichloroethene | 0.462 | 0.436 | 5.6 | 90 | 0.00 | 2.79 |
| 18 | | acetone | 0.081 | 0.088 | -8.6 | 106 | 0.00 | 2.79 |
| 19 | | acetonitrile | 0.053 | 0.036 | 32.1# | 66 | 0.00 | 2.99 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | | iodomethane | 20.000 | 9.801 | 51.0# | 50 | 0.00 | 2.91 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | | iso-butyl alcohol | 0.053 | 0.031 | 41.5# | 60 | 0.00 | 4.46 |
| 22 | | carbon disulfide | 1.420 | 1.131 | 20.4# | 78 | 0.00 | 2.96 |
| 23 | | methylene chloride | 0.537 | 0.565 | -5.2 | 109 | 0.00 | 3.12 |
| 24 | | methyl acetate | 0.163 | 0.143 | 12.3 | 87 | 0.00 | 3.00 |
| 25 | | methyl tert butyl ether | 1.747 | 1.709 | 2.2 | 95 | 0.00 | 3.28 |
| 26 | | trans-1,2-dichloroethene | 0.499 | 0.525 | -5.2 | 104 | 0.00 | 3.30 |
| 27 | | hexane | 0.702 | 0.740 | -5.4 | 104 | 0.00 | 3.48 |
| 28 | | di-isopropyl ether | 1.418 | 1.676 | -18.2 | 115 | 0.00 | 3.59 |
| 29 | | ethyl tert-butyl ether | 1.662 | 1.832 | -10.2 | 107 | 0.00 | 3.84 |
| 30 | | 2-butanone | 0.125 | 0.122 | 2.4 | 97 | 0.00 | 3.95 |
| 31 | M | 1,1-dichloroethane | 0.877 | 0.976 | -11.3 | 110 | 0.00 | 3.60 |
| 32 | | chloroprene | 0.713 | 0.789 | -10.7 | 108 | 0.00 | 3.65 |
| 33 | | acrylonitrile | 0.288 | 0.318 | -10.4 | 106 | 0.00 | 3.27 |
| 34 | | vinyl acetate | 0.151 | 0.155 | -2.6 | 99 | 0.00 | 3.57 |
| 35 | | ethyl acetate | 0.126 | 0.130 | -3.2 | 102 | 0.00 | 3.96 |
| 36 | | 2,2-dichloropropane | 0.853 | 0.835 | 2.1 | 94 | 0.00 | 4.00 |
| 37 | | cis-1,2-dichloroethene | 0.565 | 0.597 | -5.7 | 105 | 0.00 | 3.99 |

# Continuing Calibration Summary

**Job Number:** JD52514 **Sample:** VL10517-CC10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L347768.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | | propionitrile | 0.119 | 0.115 | 3.4 | 91 | 0.00 | 4.00 |
| 39 | | methyl acrylate | 0.147 | 0.133 | 9.5 | 89 | 0.00 | 4.01 |
| 40 | | bromochloromethane | 0.246 | 0.256 | -4.1 | 107 | 0.00 | 4.16 |
| 41 | | tetrahydrofuran | 0.139 | 0.126 | 9.4 | 82 | 0.00 | 4.16 |
| 42 | | chloroform | 1.004 | 1.018 | -1.4 | 103 | 0.00 | 4.21 |
| 43 | S | dibromofluoromethane (s) | 0.452 | 0.437 | 3.3 | 93 | 0.00 | 4.32 |
| 44 | | methacrylonitrile | 0.349 | 0.364 | -4.3 | 107 | 0.00 | 4.11 |
| 45 | | 1,1,1-trichloroethane | 0.861 | 0.848 | 1.5 | 98 | 0.00 | 4.35 |
| 46 | | cyclohexane | 0.792 | 0.772 | 2.5 | 98 | 0.00 | 4.41 |
| 47 | | 1,1-dichloropropene | 0.688 | 0.717 | -4.2 | 101 | 0.00 | 4.46 |
| 48 | | carbon tetrachloride | 0.713 | 0.701 | 1.7 | 95 | 0.00 | 4.47 |
| 49 | | isopropyl acetate | 0.179 | 0.179 | 0.0 | 101 | 0.00 | 4.57 |
| 50 | | tert amyl alcohol | 0.057 | 0.039 | 31.6# | 70 | 0.00 | 4.55 |
| 51 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 98 | 0.00 | 4.88 |
| 52 | S | 1,2-dichloroethane-d4 (s) | 0.365 | 0.337 | 7.7 | 91 | 0.00 | 4.57 |
| 53 | | tert-amyl methyl ether | 1.113 | 1.123 | -0.9 | 99 | 0.00 | 4.66 |
| 54 | | 2,2,4-trimethylpentane | 0.885 | 0.985 | -11.3 | 107 | 0.00 | 4.67 |
| 55 | | n-butyl alcohol | 0.025 | 0.011 | 56.0# | 45# | 0.00 | 4.94 |
| 56 | M | benzene | 1.302 | 1.375 | -5.6 | 103 | 0.00 | 4.61 |
| 57 | | heptane | 0.204 | 0.194 | 4.9 | 100 | 0.00 | 4.78 |
| 58 | | 1,2-dichloroethane | 0.491 | 0.491 | 0.0 | 99 | 0.00 | 4.63 |
| 59 | | trichloroethene | 0.368 | 0.393 | -6.8 | 106 | 0.00 | 5.07 |
| 60 | | ethyl acrylate | 0.610 | 0.681 | -11.6 | 111 | 0.00 | 5.09 |
| 61 | | 2-nitropropane | 0.179 | 0.168 | 6.1 | 91 | 0.00 | 5.62 |
| 62 | | 2-chloroethyl vinyl ether | 0.213 | 0.267 | -25.4# | 123 | 0.00 | 5.65 |
| 63 | | methyl methacrylate | 0.142 | 0.149 | -4.9 | 104 | 0.00 | 5.27 |
| 64 | | 1,2-dichloropropane | 0.321 | 0.377 | -17.4 | 114 | 0.00 | 5.27 |
| 65 | | methylcyclohexane | 0.580 | 0.605 | -4.3 | 102 | 0.00 | 5.26 |
| 66 | | dibromomethane | 0.237 | 0.237 | 0.0 | 105 | 0.00 | 5.34 |
| 67 | | bromodichloromethane | 0.539 | 0.521 | 3.3 | 103 | 0.00 | 5.46 |
| 68 | | cis-1,3-dichloropropene | 0.605 | 0.620 | -2.5 | 101 | 0.00 | 5.80 |
| 69 | | epichlorohydrin | 0.070 | 0.059 | 15.7 | 86 | 0.00 | 5.71 |
| 70 | | 4-methyl-2-pentanone | 0.223 | 0.240 | -7.6 | 108 | 0.00 | 5.90 |
| 71 | | 3-methyl-1-butanol | 0.027 | 0.014 | 48.1# | 52 | 0.00 | 5.91 |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 100 | 0.00 | 7.28 |
| 73 | S | toluene-d8 (s) | 1.376 | 1.247 | 9.4 | 93 | 0.00 | 6.02 |
| 74 | | toluene | 0.939 | 0.993 | -5.8 | 111 | 0.00 | 6.09 |
| 75 | | trans-1,3-dichloropropene | 0.650 | 0.616 | 5.2 | 100 | 0.00 | 6.26 |
| 76 | | ethyl methacrylate | 0.654 | 0.648 | 0.9 | 102 | 0.00 | 6.27 |
| 77 | | 1,1,2-trichloroethane | 0.327 | 0.341 | -4.3 | 107 | 0.00 | 6.43 |
| 78 | | 2-hexanone | 0.260 | 0.255 | 1.9 | 105 | 0.00 | 6.59 |
| 79 | | tetrachloroethene | 0.376 | 0.381 | -1.3 | 105 | 0.00 | 6.52 |
| 80 | | 1,3-dichloropropane | 0.636 | 0.664 | -4.4 | 108 | 0.00 | 6.57 |
| 81 | | butyl acetate | 0.339 | 0.380 | -12.1 | 114 | 0.00 | 6.67 |
| 82 | | dibromochloromethane | 0.437 | 0.418 | 4.3 | 104 | 0.00 | 6.76 |
| 83 | | 1,2-dibromoethane | 0.438 | 0.409 | 6.6 | 100 | 0.00 | 6.88 |
| 84 | | n-butyl ether | 1.402 | 1.568 | -11.8 | 113 | 0.00 | 7.35 |
| 85 | | chlorobenzene | 0.960 | 0.982 | -2.3 | 102 | 0.00 | 7.30 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.347 | 0.341 | 1.7 | 101 | 0.00 | 7.37 |
| 87 | | ethylbenzene | 1.648 | 1.760 | -6.8 | 106 | 0.00 | 7.38 |
| 88 | | m,p-xylene | 0.661 | 0.653 | 1.2 | 102 | 0.00 | 7.49 |
| 89 | | o-xylene | 0.661 | 0.669 | -1.2 | 102 | 0.00 | 7.85 |
| 90 | | butyl acrylate | 0.846 | 0.904 | -6.9 | 112 | 0.00 | 7.76 |
| 91 | | styrene | 1.072 | 1.080 | -0.7 | 100 | 0.00 | 7.86 |
| 92 | | bromoform | 0.308 | 0.278 | 9.7 | 94 | 0.00 | 8.05 |
| 93 | | isopropylbenzene | 1.659 | 1.667 | -0.5 | 100 | 0.00 | 8.18 |
| 94 | | cis-1,4-dichloro-2-butene | 0.123 | 0.144 | -17.1 | 134 | 0.00 | 8.24 |

# Continuing Calibration Summary

**Job Number:** JD52514 **Sample:** VL10517-CC10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L347768.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 95 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 100 | 0.00 | 9.47 |
| 96 | S | 4-bromofluorobenzene (s) | 1.303 | 1.228 | 5.8 | 95 | 0.00 | 8.35 |
| 97 | | bromobenzene | 1.015 | 1.018 | -0.3 | 112 | 0.00 | 8.50 |
| 98 | | 1,1,2,2-tetrachloroethane | 1.674 | 1.515 | 9.5 | 102 | 0.00 | 8.47 |
| 99 | | trans-1,4-dichloro-2-bute | 0.238 | 0.297 | -24.8# | 133 | 0.00 | 8.51 |
| 100 | | 1,2,3-trichloropropane | 0.482 | 0.445 | 7.7 | 96 | 0.00 | 8.53 |
| 101 | | n-propylbenzene | 4.789 | 4.831 | -0.9 | 103 | 0.00 | 8.58 |
| 102 | | 2-chlorotoluene | 0.942 | 0.957 | -1.6 | 107 | 0.00 | 8.68 |
| 103 | | 4-chlorotoluene | 0.945 | 0.961 | -1.7 | 106 | 0.00 | 8.79 |
| 104 | | 1,3,5-trimethylbenzene | 3.434 | 3.283 | 4.4 | 97 | 0.00 | 8.75 |
| 105 | | tert-butylbenzene | 2.878 | 2.899 | -0.7 | 104 | 0.00 | 9.05 |
| 106 | | 1,2,4-trimethylbenzene | 3.514 | 3.332 | 5.2 | 98 | 0.00 | 9.11 |
| 107 | | sec-butylbenzene | 4.114 | 4.030 | 2.0 | 98 | 0.00 | 9.27 |
| 108 | | 1,3-dichlorobenzene | 1.714 | 1.713 | 0.1 | 104 | 0.00 | 9.40 |
| 109 | | p-isopropyltoluene | 3.244 | 3.230 | 0.4 | 100 | 0.00 | 9.41 |
| 110 | | 1,4-dichlorobenzene | 1.680 | 1.596 | 5.0 | 101 | 0.00 | 9.49 |
| 111 | | 1,2,3-trimethylbenzene | 3.335 | 3.176 | 4.8 | 97 | 0.00 | 9.51 |
| 112 | | 1,2-dichlorobenzene | 1.686 | 1.550 | 8.1 | 100 | 0.00 | 9.85 |
| 113 | | n-butylbenzene | 1.624 | 1.595 | 1.8 | 99 | 0.00 | 9.81 |
| 114 | | 1,2-dibromo-3-chloropropa | 0.395 | 0.354 | 10.4 | 93 | 0.00 | 10.62 |
| 115 | | 1,3,5-trichlorobenzene | 1.088 | 1.056 | 2.9 | 99 | 0.00 | 10.80 |
| 116 | | 1,2,4-trichlorobenzene | 0.881 | 0.871 | 1.1 | 98 | 0.00 | 11.43 |
| 117 | | hexachlorobutadiene | 0.353 | 0.338 | 4.2 | 97 | 0.01 | 11.58 |
| 118 | | naphthalene | 2.975 | 2.748 | 7.6 | 94 | 0.00 | 11.69 |
| 119 | | 1,2,3-trichlorobenzene | 0.798 | 0.797 | 0.1 | 100 | 0.00 | 11.92 |
| 120 | | hexachloroethane | 0.673 | 0.594 | 11.7 | 91 | 0.00 | 10.12 |
| 121 | | benzyl chloride | 2.904 | 2.547 | 12.3 | 88 | 0.00 | 9.60 |
| 122 | | 2-methylnaphthalene | 1.065 | 0.795 | 25.4# | 96 | 0.00 | 12.83 |
| 123 | | pentafluorobenzene(a) | 1.000 | 1.000 | 0.0 | 113 | 0.00 | 4.31 |
| 124 | | Freon 142B | | ----------NA---------- | | | | |
| 125 | | vinyl bromide | | ----------NA---------- | | | | |
| 126 | | allyl chloride | | ----------NA---------- | | | | |
| 127 | | 1,4-dichlorobenzene-d4(a) | 1.000 | 1.000 | 0.0 | 120 | 0.01 | 9.47 |
| 128 | | 4-ethyltoluene | | ----------NA---------- | | | | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L342974.D ML10355.M Tue Oct 04 01:51:23 2022

# Run Sequence Report



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V1X8636 | **Method:** SW846 8260D | **Instrument ID:** GCMS1X |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V1X8636-BFB | 1X200546.D | 09/28/22 20:11 | n/a | BFB Tune |
| V1X8636-IC8636 | 1X200548.D | 09/28/22 21:15 | n/a | Initial cal 0.2 |
| V1X8636-IC8636 | 1X200550.D | 09/28/22 21:47 | n/a | Initial cal 0.5 |
| V1X8636-IC8636 | 1X200552.D | 09/28/22 22:23 | n/a | Initial cal 1 |
| V1X8636-IC8636 | 1X200554.D | 09/28/22 23:00 | n/a | Initial cal 2 |
| V1X8636-IC8636 | 1X200556.D | 09/28/22 23:36 | n/a | Initial cal 4 |
| V1X8636-IC8636 | 1X200558.D | 09/29/22 00:12 | n/a | Initial cal 8 |
| V1X8636-IC8636 | 1X200560.D | 09/29/22 00:48 | n/a | Initial cal 20 |
| V1X8636-ICC8636 | 1X200562.D | 09/29/22 01:25 | n/a | Initial cal 50 |
| V1X8636-IC8636 | 1X200564.D | 09/29/22 02:01 | n/a | Initial cal 100 |
| V1X8636-IC8636 | 1X200566.D | 09/29/22 02:37 | n/a | Initial cal 200 |
| V1X8636-ICV8636 | 1X200572.D | 09/29/22 04:25 | n/a | Initial cal verification 50 |
| V1X8636-ICV8636 | 1X200574.D | 09/29/22 05:02 | n/a | Initial cal verification 50 |

# Run Sequence Report



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V1X8639 | **Method:** SW846 8260D | **Instrument ID:** GCMS1X |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V1X8639-BFB | 1X200643.D | 09/30/22 09:46 | n/a | BFB Tune |
| V1X8639-CC8636 | 1X200643.D | 09/30/22 09:46 | n/a | Continuing cal 20 |
| V1X8639-BS | 1X200645.D | 09/30/22 10:35 | n/a | Blank Spike |
| V1X8639-MB | 1X200647.D | 09/30/22 11:21 | n/a | Method Blank |
| JD52514-8 | 1X200648.D | 09/30/22 11:44 | n/a | EW-8-62C |
| JD52514-8 | 1X200649.D | 09/30/22 12:08 | n/a | EW-8-62C |
| JD52514-1 | 1X200650.D | 09/30/22 12:31 | n/a | EW-1-62C |
| JD52514-9 | 1X200651.D | 09/30/22 12:54 | n/a | EW-9R-72C |
| JD52514-6 | 1X200652.D | 09/30/22 13:17 | n/a | EW-6-60C |
| JD52514-2 | 1X200653.D | 09/30/22 13:40 | n/a | EW-2-62C |
| JD52514-7 | 1X200654.D | 09/30/22 14:03 | n/a | EW-7-25B |
| JD52514-4 | 1X200655.D | 09/30/22 14:26 | n/a | EW-4-25B |
| JD52514-5 | 1X200656.D | 09/30/22 14:50 | n/a | EW-5-25B |
| JD52514-3 | 1X200657.D | 09/30/22 15:13 | n/a | EW-3-60C |
| JD52514-8MS | 1X200658.D | 09/30/22 15:36 | n/a | Matrix Spike |
| JD52514-8MSD | 1X200659.D | 09/30/22 15:59 | n/a | Matrix Spike Duplicate |
| JD52514-7 | 1X200661.D | 09/30/22 16:46 | n/a | EW-7-25B |
| ZZZZZZ | 1X200662.D | 09/30/22 17:09 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200663.D | 09/30/22 17:32 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200664.D | 09/30/22 17:56 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200665.D | 09/30/22 18:19 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200666.D | 09/30/22 18:42 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200667.D | 09/30/22 19:05 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200668.D | 09/30/22 19:28 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200669.D | 09/30/22 19:52 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200671.D | 09/30/22 20:38 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200672.D | 09/30/22 21:01 | n/a | (unrelated sample) |

# Run Sequence Report



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Run ID:** V1X8640 **Method:** SW846 8260D **Instrument ID:** GCMS1X

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V1X8640-BFB | 1X200674.D | 09/30/22 21:48 | n/a | BFB Tune |
| V1X8640-CC8636 | 1X200674.D | 09/30/22 21:48 | n/a | Continuing cal 50 |
| V1X8640-BS | 1X200676.D | 09/30/22 22:34 | n/a | Blank Spike |
| V1X8640-MB | 1X200678.D | 09/30/22 23:20 | n/a | Method Blank |
| ZZZZZZ | 1X200679.D | 09/30/22 23:43 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200680.D | 10/01/22 00:07 | n/a | (unrelated sample) |
| JD52697-5 | 1X200681.D | 10/01/22 00:30 | n/a | (used for QC only; not part of job JD52514) |
| ZZZZZZ | 1X200682.D | 10/01/22 00:53 | n/a | (unrelated sample) |
| JD52697-5MS | 1X200683.D | 10/01/22 01:16 | n/a | Matrix Spike |
| JD52697-5MSD | 1X200684.D | 10/01/22 01:40 | n/a | Matrix Spike Duplicate |
| ZZZZZZ | 1X200688.D | 10/01/22 03:12 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200689.D | 10/01/22 03:35 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200690.D | 10/01/22 03:59 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200691.D | 10/01/22 04:22 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200692.D | 10/01/22 04:45 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200693.D | 10/01/22 05:08 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200694.D | 10/01/22 05:31 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200695.D | 10/01/22 05:55 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200696.D | 10/01/22 06:18 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200697.D | 10/01/22 06:41 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200698.D | 10/01/22 07:04 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200699.D | 10/01/22 07:27 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200700.D | 10/01/22 07:51 | n/a | (unrelated sample) |

# Run Sequence Report



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V2A9511 | **Method:** SW846 8260D | **Instrument ID:** GCMS2A |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2A9511-BFB | 2A218780.D | 07/31/22 16:50 | n/a | BFB Tune |
| V2A9511-IC9511 | 2A218781.D | 07/31/22 17:23 | n/a | Initial cal 0.2 |
| V2A9511-IC9511 | 2A218782.D | 07/31/22 17:51 | n/a | Initial cal 0.5 |
| V2A9511-IC9511 | 2A218783.D | 07/31/22 18:19 | n/a | Initial cal 1 |
| V2A9511-IC9511 | 2A218784.D | 07/31/22 18:48 | n/a | Initial cal 2 |
| V2A9511-IC9511 | 2A218785.D | 07/31/22 19:16 | n/a | Initial cal 4 |
| V2A9511-IC9511 | 2A218786.D | 07/31/22 19:44 | n/a | Initial cal 8 |
| V2A9511-IC9511 | 2A218787.D | 07/31/22 20:13 | n/a | Initial cal 20 |
| V2A9511-ICC9511 | 2A218788.D | 07/31/22 20:41 | n/a | Initial cal 50 |
| V2A9511-IC9511 | 2A218789.D | 07/31/22 21:09 | n/a | Initial cal 100 |
| V2A9511-IC9511 | 2A218790.D | 07/31/22 21:38 | n/a | Initial cal 200 |
| V2A9511-ICV9511 | 2A218793.D | 07/31/22 23:03 | n/a | Initial cal verification 50 |
| V2A9511-ICV9511 | 2A218794.D | 07/31/22 23:31 | n/a | Initial cal verification 50 |

# Run Sequence Report



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V2A9583 | **Method:** SW846 8260D | **Instrument ID:** GCMS2A |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2A9583-BFB | 2A220438.D | 09/30/22 09:16 | n/a | BFB Tune |
| V2A9583-CC9511 | 2A220438.D | 09/30/22 09:16 | n/a | Continuing cal 20 |
| V2A9583-BS | 2A220440.D | 09/30/22 10:21 | n/a | Blank Spike |
| V2A9583-MB | 2A220442.D | 09/30/22 11:18 | n/a | Method Blank |
| ZZZZZZ | 2A220444.D | 09/30/22 12:15 | n/a | (unrelated sample) |
| ZZZZZZ | 2A220446.D | 09/30/22 13:12 | n/a | (unrelated sample) |
| JD52514-12 | 2A220447.D | 09/30/22 13:40 | n/a | EW-12-45C |
| JD52514-12 | 2A220449.D | 09/30/22 14:37 | n/a | EW-12-45C |
| ZZZZZZ | 2A220450.D | 09/30/22 15:06 | n/a | (unrelated sample) |
| JD52514-12MS | 2A220451.D | 09/30/22 15:35 | n/a | Matrix Spike |
| JD52514-12MSD | 2A220452.D | 09/30/22 16:03 | n/a | Matrix Spike Duplicate |
| ZZZZZZ | 2A220454.D | 09/30/22 17:01 | n/a | (unrelated sample) |
| ZZZZZZ | 2A220455.D | 09/30/22 17:30 | n/a | (unrelated sample) |
| ZZZZZZ | 2A220456.D | 09/30/22 17:58 | n/a | (unrelated sample) |

# Run Sequence Report



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V4D5341 | **Method:** SW846 8260D | **Instrument ID:** GCMS4D |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V4D5341-BFB | 4D120247.D | 08/13/22 19:58 | n/a | BFB Tune |
| V4D5341-IC5341 | 4D120248.D | 08/13/22 20:38 | n/a | Initial cal 0.2 |
| V4D5341-IC5341 | 4D120249.D | 08/13/22 21:06 | n/a | Initial cal 0.5 |
| V4D5341-IC5341 | 4D120250.D | 08/13/22 21:35 | n/a | Initial cal 1 |
| V4D5341-IC5341 | 4D120251.D | 08/13/22 22:03 | n/a | Initial cal 2 |
| V4D5341-IC5341 | 4D120252.D | 08/13/22 22:31 | n/a | Initial cal 4 |
| V4D5341-IC5341 | 4D120253.D | 08/13/22 23:00 | n/a | Initial cal 8 |
| V4D5341-IC5341 | 4D120254.D | 08/13/22 23:28 | n/a | Initial cal 20 |
| V4D5341-ICC5341 | 4D120255.D | 08/13/22 23:56 | n/a | Initial cal 50 |
| V4D5341-IC5341 | 4D120256.D | 08/14/22 00:25 | n/a | Initial cal 100 |
| V4D5341-IC5341 | 4D120257.D | 08/14/22 00:53 | n/a | Initial cal 200 |
| V4D5341-ICV5341 | 4D120260.D | 08/14/22 02:18 | n/a | Initial cal verification 50 |
| V4D5341-ICV5341 | 4D120261.D | 08/14/22 02:46 | n/a | Initial cal verification 50 |

# Run Sequence Report



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V4D5406 | **Method:** SW846 8260D | **Instrument ID:** GCMS4D |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V4D5406-BFB | 4D121696.D | 09/29/22 20:44 | n/a | BFB Tune |
| V4D5406-CC5341 | 4D121696.D | 09/29/22 20:44 | n/a | Continuing cal 50 |
| V4D5406-BS | 4D121698.D | 09/29/22 21:42 | n/a | Blank Spike |
| V4D5406-MB | 4D121700.D | 09/29/22 22:41 | n/a | Method Blank |
| JD52514-13 | 4D121701.D | 09/29/22 23:10 | n/a | TRIP BLANK |
| JD52514-2 | 4D121702.D | 09/29/22 23:39 | n/a | EW-2-62C |
| JD52514-2MS | 4D121705.D | 09/30/22 01:06 | n/a | Matrix Spike |
| JD52514-2MSD | 4D121706.D | 09/30/22 01:35 | n/a | Matrix Spike Duplicate |
| ZZZZZZ | 4D121708.D | 09/30/22 02:32 | n/a | (unrelated sample) |
| JD52514-1 | 4D121709.D | 09/30/22 03:01 | n/a | EW-1-62C |
| JD52514-3 | 4D121710.D | 09/30/22 03:30 | n/a | EW-3-60C |
| JD52514-4 | 4D121711.D | 09/30/22 03:59 | n/a | EW-4-25B |
| JD52514-5 | 4D121712.D | 09/30/22 04:28 | n/a | EW-5-25B |
| JD52514-6 | 4D121713.D | 09/30/22 04:57 | n/a | EW-6-60C |
| JD52514-9 | 4D121716.D | 09/30/22 06:23 | n/a | EW-9R-72C |

# Run Sequence Report



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** VL10355 | **Method:** SW846 8260D | **Instrument ID:** GCMSL |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| VL10355-BFB | L342967.D | 06/15/22 16:00 | n/a | BFB Tune |
| VL10355-IC10355 | L342968.D | 06/15/22 16:25 | n/a | Initial cal 0.2 |
| VL10355-IC10355 | L342969.D | 06/15/22 16:48 | n/a | Initial cal 0.5 |
| VL10355-IC10355 | L342970.D | 06/15/22 17:11 | n/a | Initial cal 1 |
| VL10355-IC10355 | L342971.D | 06/15/22 17:35 | n/a | Initial cal 2 |
| VL10355-IC10355 | L342972.D | 06/15/22 17:58 | n/a | Initial cal 4 |
| VL10355-IC10355 | L342973.D | 06/15/22 18:22 | n/a | Initial cal 8 |
| VL10355-IC10355 | L342974.D | 06/15/22 18:45 | n/a | Initial cal 20 |
| VL10355-ICC10355 | L342975.D | 06/15/22 19:09 | n/a | Initial cal 50 |
| VL10355-IC10355 | L342976.D | 06/15/22 19:32 | n/a | Initial cal 100 |
| VL10355-IC10355 | L342977.D | 06/15/22 19:56 | n/a | Initial cal 200 |
| VL10355-ICV10355 | L342980.D | 06/15/22 21:06 | n/a | Initial cal verification 50 |
| VL10355-ICV10355 | L342981.D | 06/15/22 21:29 | n/a | Initial cal verification 50 |
| VL10355-BFB2 | L342984.D | 06/16/22 09:43 | n/a | BFB Tune |
| VL10355-ICV10355 | L342985.D | 06/16/22 10:06 | n/a | Initial cal verification 50 |

# Run Sequence Report



**Job Number:** JD52514
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Run ID:** VL10517 **Method:** SW846 8260D **Instrument ID:** GCMSL

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| VL10517-BFB | L347768.D | 10/03/22 11:43 | n/a | BFB Tune |
| VL10517-CC10355 | L347768.D | 10/03/22 11:43 | n/a | Continuing cal 20 |
| VL10517-BS | L347770.D | 10/03/22 12:31 | n/a | Blank Spike |
| VL10517-MB | L347772.D | 10/03/22 13:17 | n/a | Method Blank |
| ZZZZZZ | L347773.D | 10/03/22 13:50 | n/a | (unrelated sample) |
| ZZZZZZ | L347774.D | 10/03/22 14:13 | n/a | (unrelated sample) |
| ZZZZZZ | L347776.D | 10/03/22 15:00 | n/a | (unrelated sample) |
| JD52644-1 | L347777.D | 10/03/22 15:23 | n/a | (used for QC only; not part of job JD52514) |
| JD52514-10 | L347778.D | 10/03/22 15:46 | n/a | EW-10-25B |
| JD52514-10 | L347779.D | 10/03/22 16:09 | n/a | EW-10-25B |
| JD52514-11 | L347780.D | 10/03/22 16:32 | n/a | EW-11-43C |
| ZZZZZZ | L347782.D | 10/03/22 17:18 | n/a | (unrelated sample) |
| JD52644-1MS | L347783.D | 10/03/22 17:42 | n/a | Matrix Spike |
| JD52644-1MSD | L347784.D | 10/03/22 18:05 | n/a | Matrix Spike Duplicate |
| JD52644-1 | L347785.D | 10/03/22 18:28 | n/a | (used for QC only; not part of job JD52514) |
| JD52514-11 | L347786.D | 10/03/22 18:51 | n/a | EW-11-43C |
| ZZZZZZ | L347787.D | 10/03/22 19:15 | n/a | (unrelated sample) |
| ZZZZZZ | L347788.D | 10/03/22 19:38 | n/a | (unrelated sample) |
| ZZZZZZ | L347789.D | 10/03/22 20:01 | n/a | (unrelated sample) |
| ZZZZZZ | L347790.D | 10/03/22 20:24 | n/a | (unrelated sample) |
| ZZZZZZ | L347791.D | 10/03/22 20:47 | n/a | (unrelated sample) |
| ZZZZZZ | L347792.D | 10/03/22 21:10 | n/a | (unrelated sample) |
| ZZZZZZ | L347793.D | 10/03/22 21:33 | n/a | (unrelated sample) |
| ZZZZZZ | L347794.D | 10/03/22 21:57 | n/a | (unrelated sample) |
| ZZZZZZ | L347795.D | 10/03/22 22:20 | n/a | (unrelated sample) |
| ZZZZZZ | L347796.D | 10/03/22 22:43 | n/a | (unrelated sample) |
| ZZZZZZ | L347797.D | 10/03/22 23:06 | n/a | (unrelated sample) |
| ZZZZZZ | L347798.D | 10/03/22 23:29 | n/a | (unrelated sample) |

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200650.d
Acq On : 30 Sep 2022 12:31 pm
Operator : taylors
Sample : jd52514-1 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:45:27 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

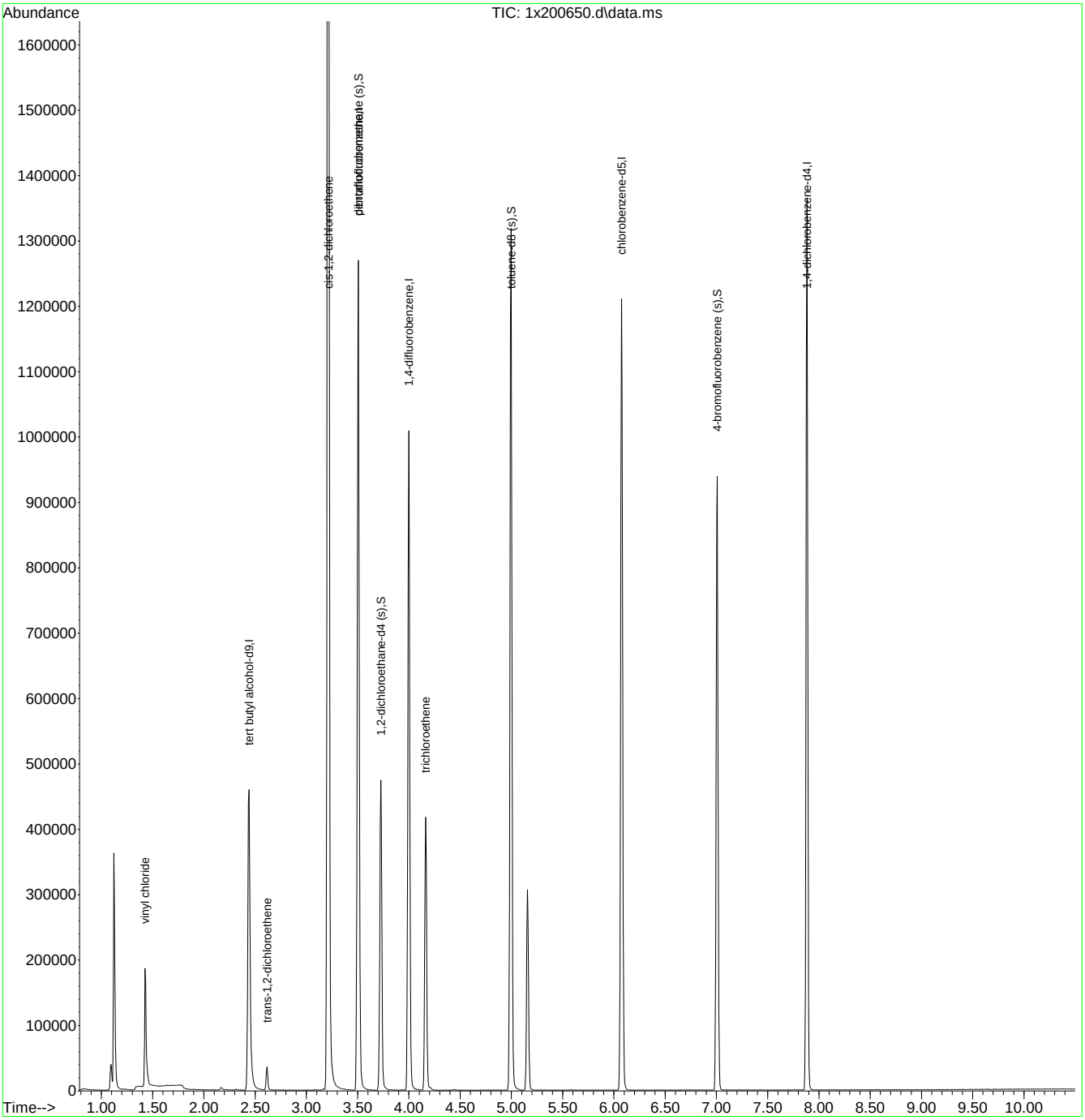
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.440 | 65 | 366280 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.507 | 168 | 419210 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 3.998 | 114 | 585392 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.074 | 117 | 542279 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 265610 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.507 | 113 | 189896 | 48.02 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.04% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.726 | 65 | 217402 | 48.59 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 97.18% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 640602 | 49.39 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.78% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 234182 | 50.78 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.56% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.426 | 62 | 115143 | 31.13 | ug/L | 100 |
| 26) trans-1,2-dichloroethene | 2.616 | 96 | 8076 | 3.19 | ug/L | 89 |
| 36) cis-1,2-dichloroethene | 3.213 | 96 | 915857 | 334.89 | ug/L | 88 |
| 61) trichloroethene | 4.163 | 130 | 102658 | 33.57 | ug/L | 97 |

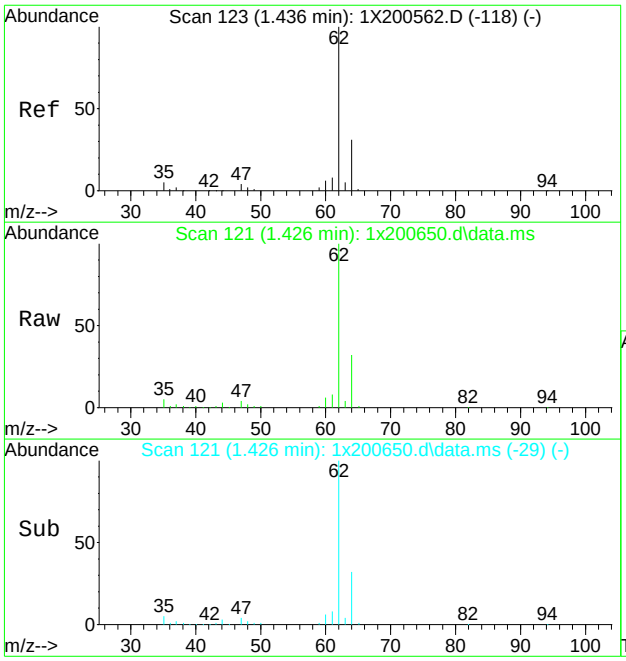
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200650.d
Acq On : 30 Sep 2022 12:31 pm
Operator : taylors
Sample : jd52514-1 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:45:27 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

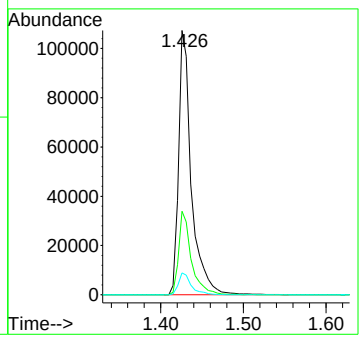


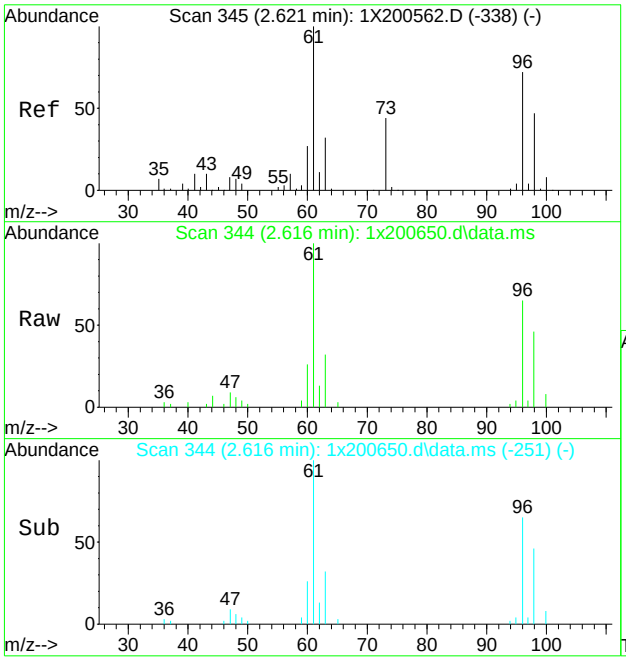



#9
vinyl chloride
Concen: 31.13 ug/L
RT: 1.426 min Scan# 121
Delta R.T. -0.011 min
Lab File: 1x200650.d
Acq: 30 Sep 2022 12:31 pm

Tgt Ion: 62 Resp: 115143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.6 | 1.4 | 61.4 |
| 61 | 8.3 | 0.0 | 38.2 |

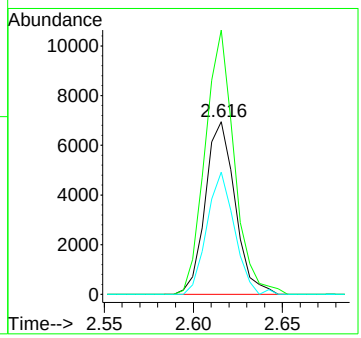


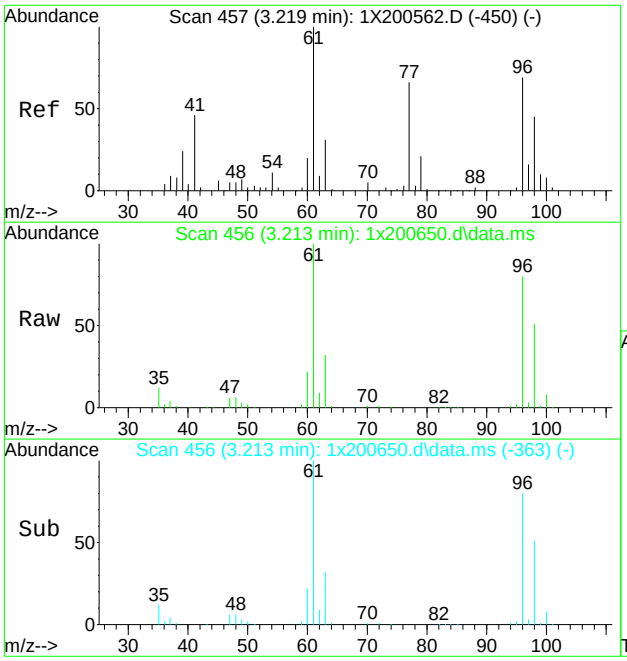




#26
trans-1,2-dichloroethene
Concen: 3.19 ug/L
RT: 2.616 min Scan# 344
Delta R.T. -0.005 min
Lab File: 1x200650.d
Acq: 30 Sep 2022 12:31 pm

Tgt Ion: 96 Resp: 8076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 153.2 | 108.1 | 168.1 |
| 98 | 70.8 | 34.7 | 94.7 |

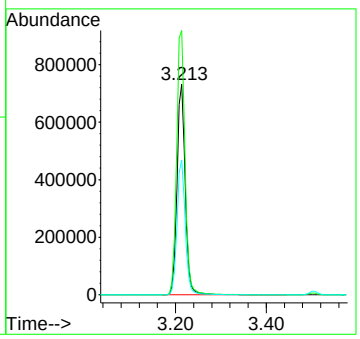


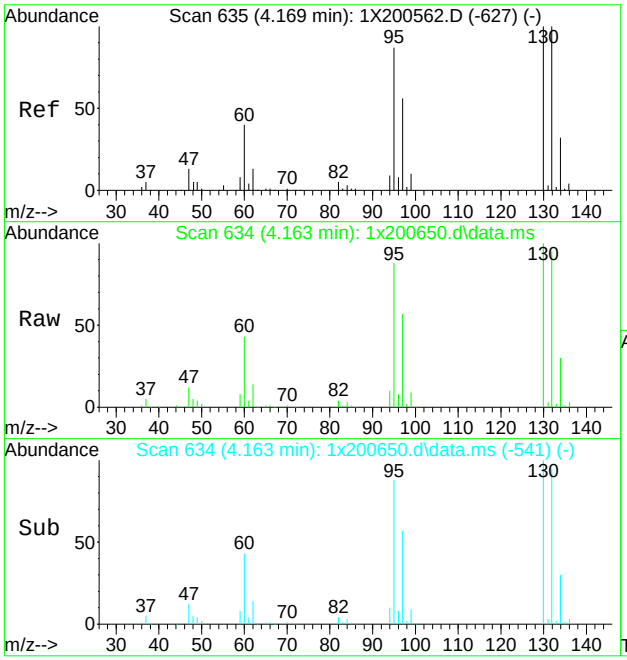



#36
cis-1,2-dichloroethene
Concen: 334.89 ug/L
RT: 3.213 min Scan# 456
Delta R.T. -0.005 min
Lab File: 1x200650.d
Acq: 30 Sep 2022 12:31 pm

Tgt Ion: 96 Resp: 915857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 125.7 | 115.4 | 175.4 |
| 98 | 64.0 | 36.1 | 96.1 |

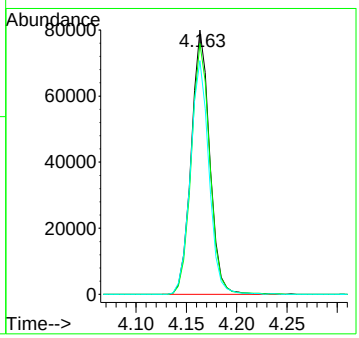



#61
trichloroethene
Concen: 33.57 ug/L
RT: 4.163 min Scan# 634
Delta R.T. -0.005 min
Lab File: 1x200650.d
Acq: 30 Sep 2022 12:31 pm

Tgt Ion:130 Resp: 102658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 94.9 | 69.7 | 129.7 |
| 95 | 88.4 | 57.1 | 117.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121709.d
Acq On : 30 Sep 2022 3:01 am
Operator : taylors
Sample : jd52514-1 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,10
ALS Vial : 40 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 21:32:45 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

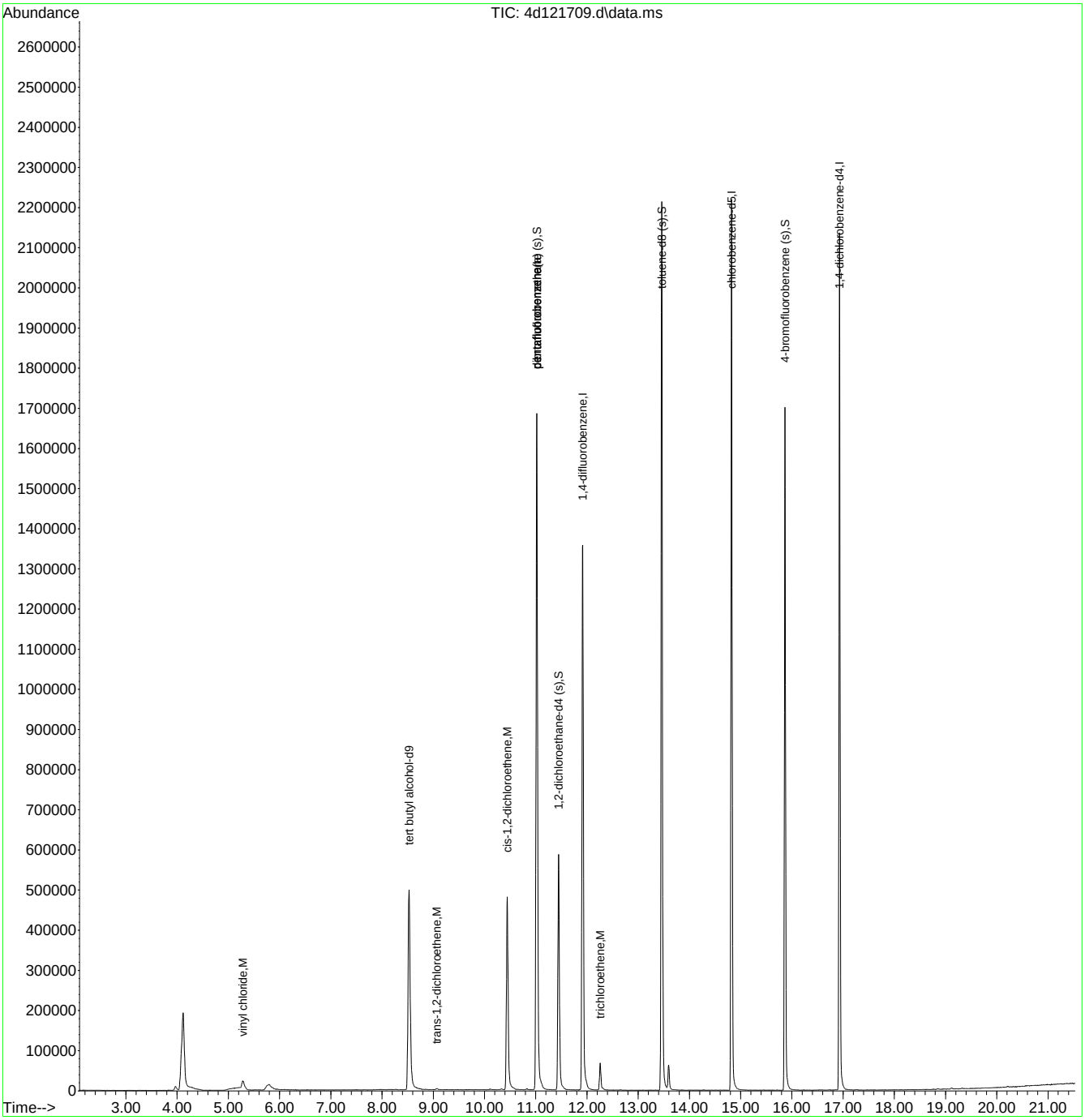
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 8.525 | 65 | 769170 | 500.00 | ug/L | -0.01 |
| 5) pentafluorobenzene | 11.021 | 168 | 843301 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 11.918 | 114 | 1209963 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 14.822 | 117 | 1189567 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.930 | 152 | 536441 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 11.021 | 168 | 843301 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 11.021 | 113 | 422680 | 52.88 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 105.76% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.446 | 65 | 449897 | 48.33 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 96.66% | | | |
| 74) toluene-d8 (s) | 13.459 | 98 | 1441112 | 50.27 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.54% | | | |
| 97) 4-bromofluorobenzene (s) | 15.866 | 95 | 533537 | 48.70 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.40% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 5.280 | 62 | 25930 | 2.90 | ug/L | 99 |
| 25) trans-1,2-dichloroethene | 9.065 | 96 | 2416 | 0.33 | ug/L # | 69 |
| 36) cis-1,2-dichloroethene | 10.444 | 96 | 260581 | 32.12 | ug/L | 96 |
| 60) trichloroethene | 12.258 | 130 | 25293 | 3.01 | ug/L | 98 |

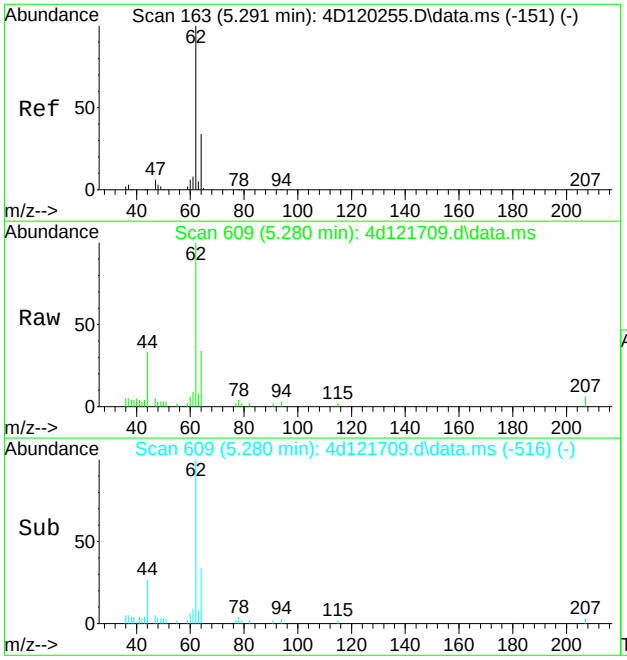
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121709.d
Acq On : 30 Sep 2022 3:01 am
Operator : taylors
Sample : jd52514-1 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,10
ALS Vial : 40 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 21:32:45 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

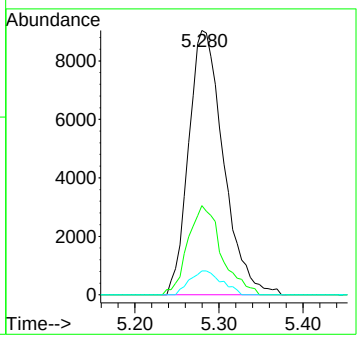


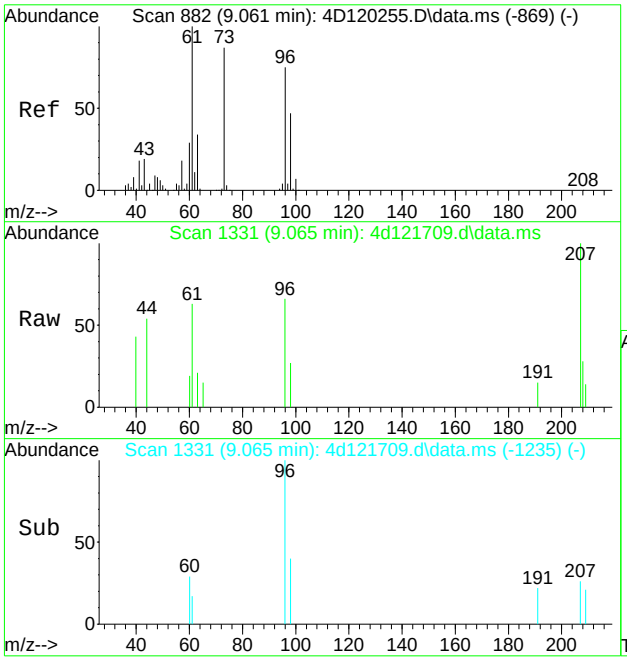



#9
vinyl chloride
Concen: 2.90 ug/L
RT: 5.280 min Scan# 609
Delta R.T. -0.011 min
Lab File: 4d121709.d
Acq: 30 Sep 2022 3:01 am

Tgt Ion: 62 Resp: 25930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.7 | 4.0 | 64.0 |
| 61 | 9.0 | 0.0 | 38.3 |

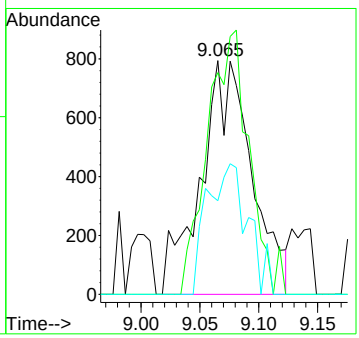


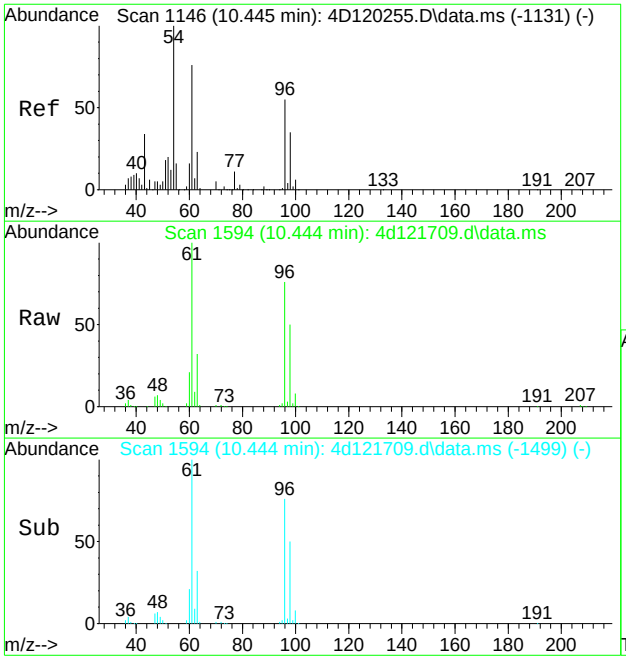




#25
trans-1,2-dichloroethene
Concen: 0.33 ug/L
RT: 9.065 min Scan# 1331
Delta R.T. 0.004 min
Lab File: 4d121709.d
Acq: 30 Sep 2022 3:01 am

Tgt Ion: 96 Resp: 2416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 94.8 | 103.0 | 163.0# |
| 98 | 40.1 | 32.0 | 92.0 |

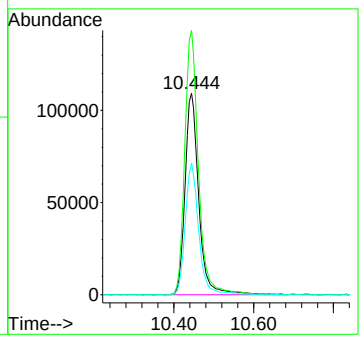


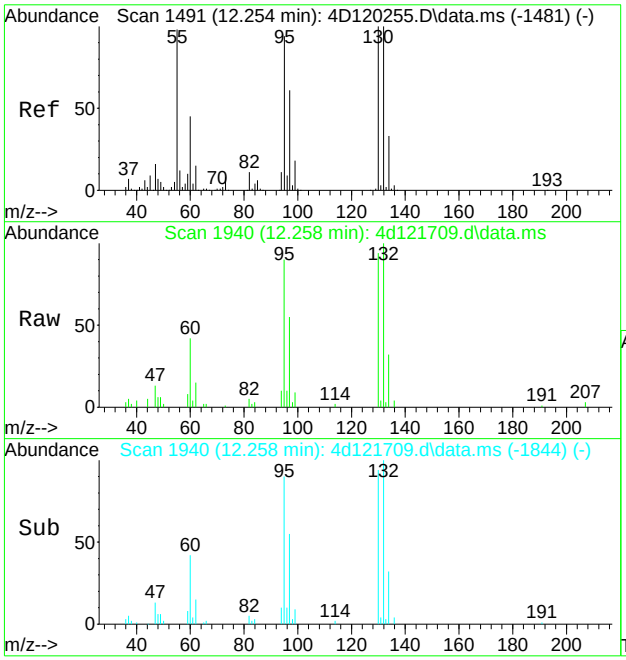



#36
cis-1,2-dichloroethene
Concen: 32.12 ug/L
RT: 10.444 min Scan# 1594
Delta R.T. -0.001 min
Lab File: 4d121709.d
Acq: 30 Sep 2022 3:01 am

Tgt Ion: 96 Resp: 260581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.3 | 107.6 | 167.6 |
| 98 | 65.4 | 33.7 | 93.7 |

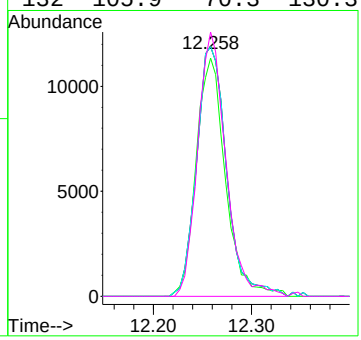



#60
trichloroethene
Concen: 3.01 ug/L
RT: 12.258 min Scan# 1940
Delta R.T. 0.004 min
Lab File: 4d121709.d
Acq: 30 Sep 2022 3:01 am

Tgt Ion:130 Resp: 25293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 95.4 | 64.3 | 124.3 |
| 130 | 100.0 | 70.0 | 130.0 |
| 132 | 105.9 | 70.3 | 130.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200653.d
Acq On : 30 Sep 2022 1:40 pm
Operator : taylors
Sample : jd52514-2 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:48:18 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

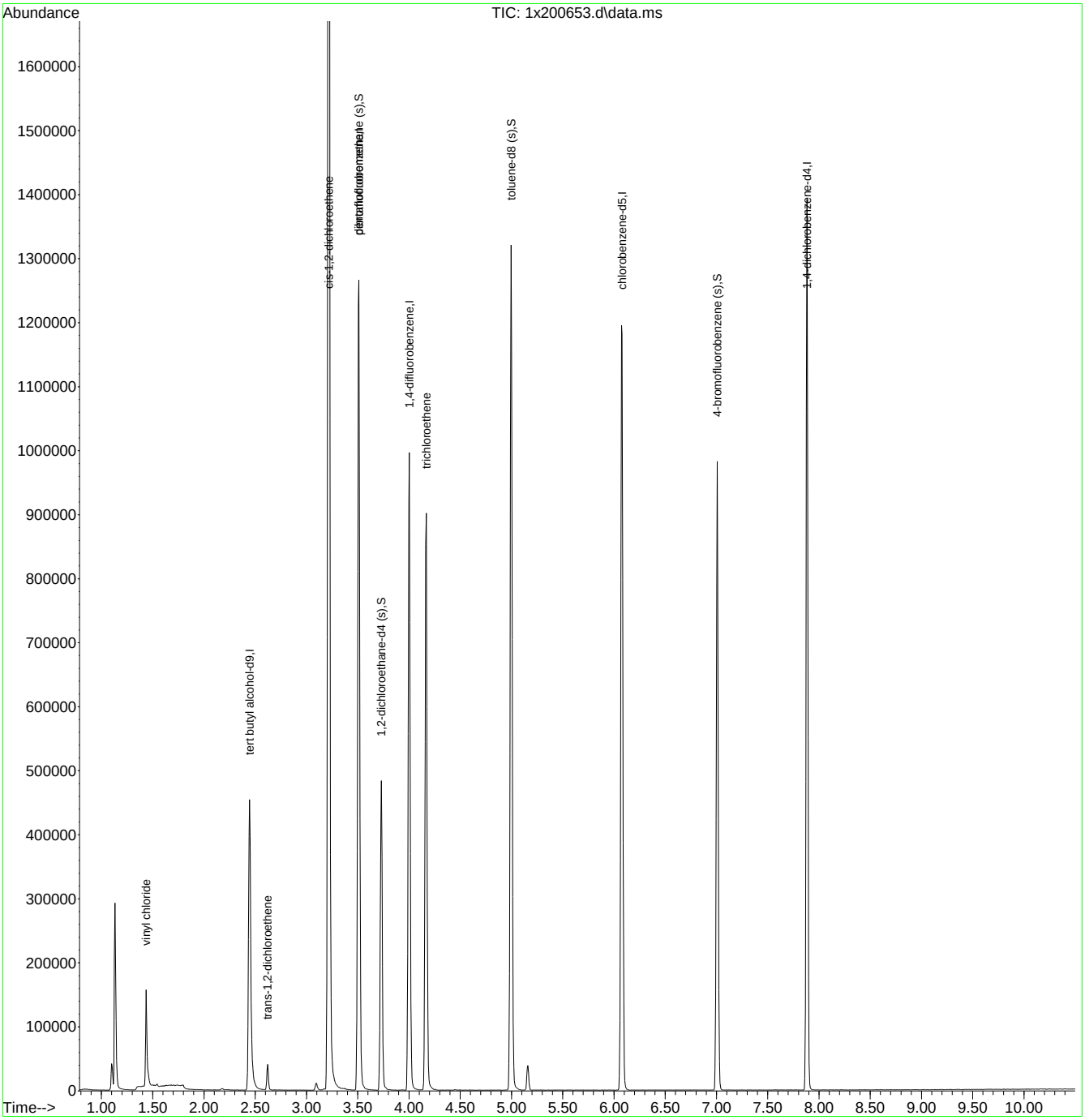
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.445 | 65 | 360664 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.512 | 168 | 426565 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.003 | 114 | 595217 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.079 | 117 | 552108 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 271732 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.512 | 113 | 192023 | 47.72 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.44% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.731 | 65 | 221557 | 48.70 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 97.40% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 653037 | 49.45 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.90% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 237889 | 50.43 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.86% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.436 | 62 | 91781 | 24.38 | ug/L | 100 |
| 26) trans-1,2-dichloroethene | 2.621 | 96 | 9035 | 3.50 | ug/L | 96 |
| 36) cis-1,2-dichloroethene | 3.219 | 96 | 993611 | 357.06 | ug/L | 89 |
| 61) trichloroethene | 4.169 | 130 | 220154 | 70.80 | ug/L | 99 |

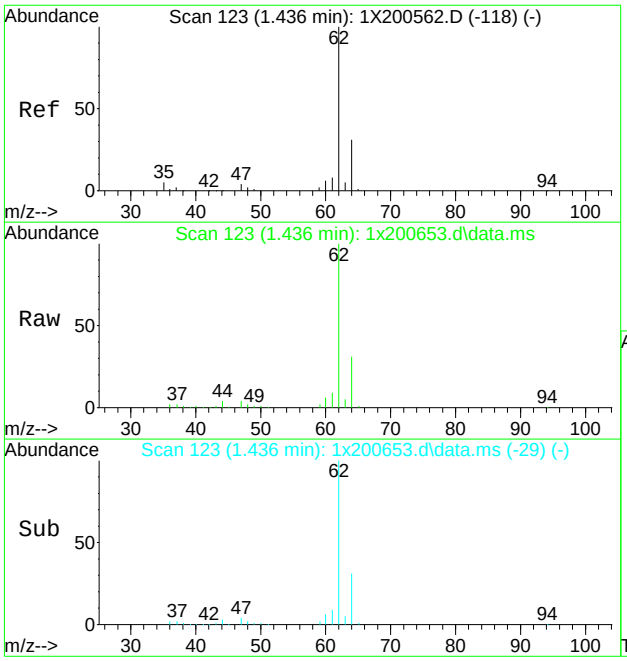
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200653.d
Acq On : 30 Sep 2022 1:40 pm
Operator : taylors
Sample : jd52514-2 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:48:18 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

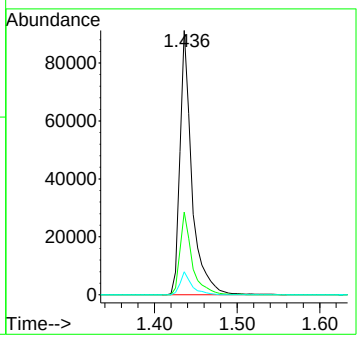


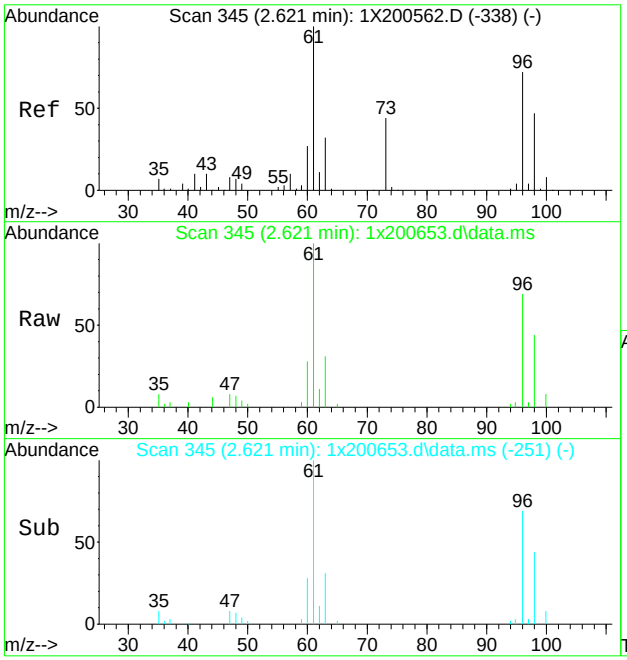



#9
vinyl chloride
Concen: 24.38 ug/L
RT: 1.436 min Scan# 123
Delta R.T. -0.000 min
Lab File: 1x200653.d
Acq: 30 Sep 2022 1:40 pm

Tgt Ion: 62 Resp: 91781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.3 | 1.4 | 61.4 |
| 61 | 8.8 | 0.0 | 38.2 |

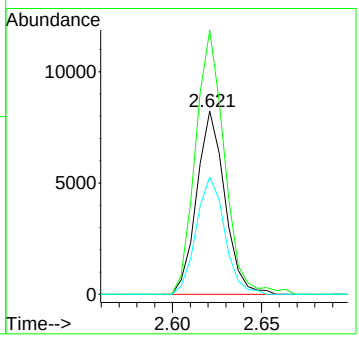


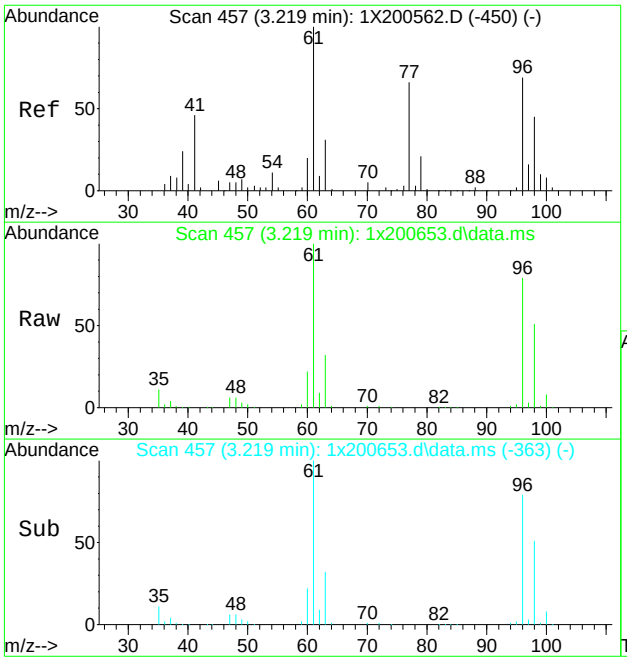




#26
trans-1,2-dichloroethene
Concen: 3.50 ug/L
RT: 2.621 min Scan# 345
Delta R.T. -0.000 min
Lab File: 1x200653.d
Acq: 30 Sep 2022 1:40 pm

Tgt Ion: 96 Resp: 9035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 144.3 | 108.1 | 168.1 |
| 98 | 64.1 | 34.7 | 94.7 |

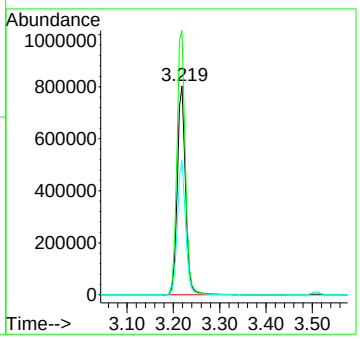


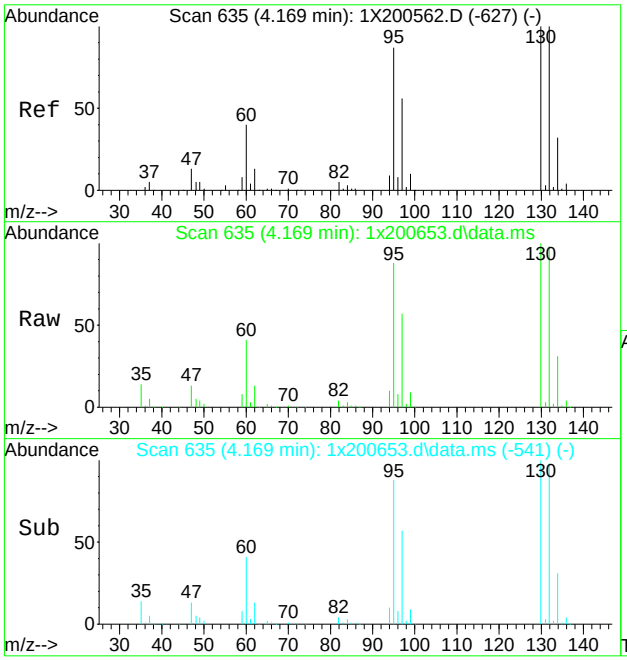



#36
cis-1,2-dichloroethene
Concen: 357.06 ug/L
RT: 3.219 min Scan# 457
Delta R.T. 0.001 min
Lab File: 1x200653.d
Acq: 30 Sep 2022 1:40 pm

Tgt Ion: 96 Resp: 993611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 126.5 | 115.4 | 175.4 |
| 98 | 64.4 | 36.1 | 96.1 |

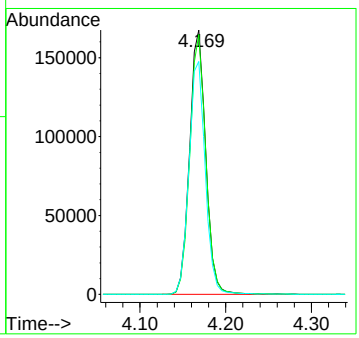



#61
trichloroethene
Concen: 70.80 ug/L
RT: 4.169 min Scan# 635
Delta R.T. 0.001 min
Lab File: 1x200653.d
Acq: 30 Sep 2022 1:40 pm

Tgt Ion:130 Resp: 220154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 98.2 | 69.7 | 129.7 |
| 95 | 88.0 | 57.1 | 117.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121702.d
Acq On : 29 Sep 2022 11:39 pm
Operator : taylors
Sample : jd52514-2 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,10
ALS Vial : 33 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 20:44:29 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

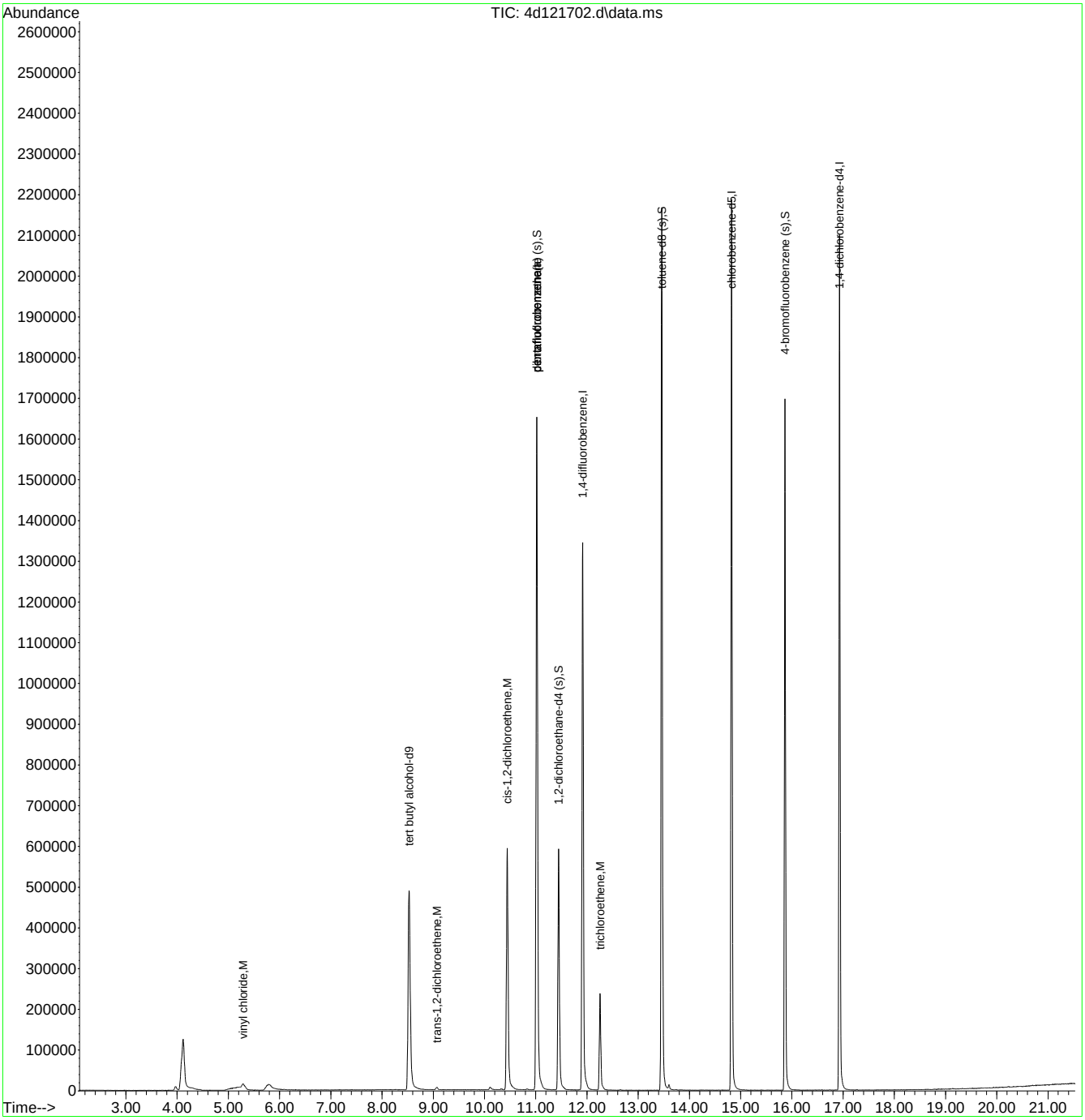
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 8.525 | 65 | 768425 | 500.00 | ug/L | -0.01 |
| 5) pentafluorobenzene | 11.021 | 168 | 824436 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 11.918 | 114 | 1183259 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 14.822 | 117 | 1166029 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.930 | 152 | 523489 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 11.021 | 168 | 824436 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 11.021 | 113 | 411556 | 52.67 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 105.34% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.446 | 65 | 446118 | 49.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.00% | | | |
| 74) toluene-d8 (s) | 13.459 | 98 | 1396473 | 49.69 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.38% | | | |
| 97) 4-bromofluorobenzene (s) | 15.866 | 95 | 525734 | 49.18 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.36% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 5.290 | 62 | 12028 | 1.37 | ug/L | 95 |
| 25) trans-1,2-dichloroethene | 9.071 | 96 | 4029 | 0.56 | ug/L | 86 |
| 36) cis-1,2-dichloroethene | 10.444 | 96 | 319346 | 40.26 | ug/L | 98 |
| 60) trichloroethene | 12.258 | 130 | 87853 | 10.69 | ug/L | 95 |

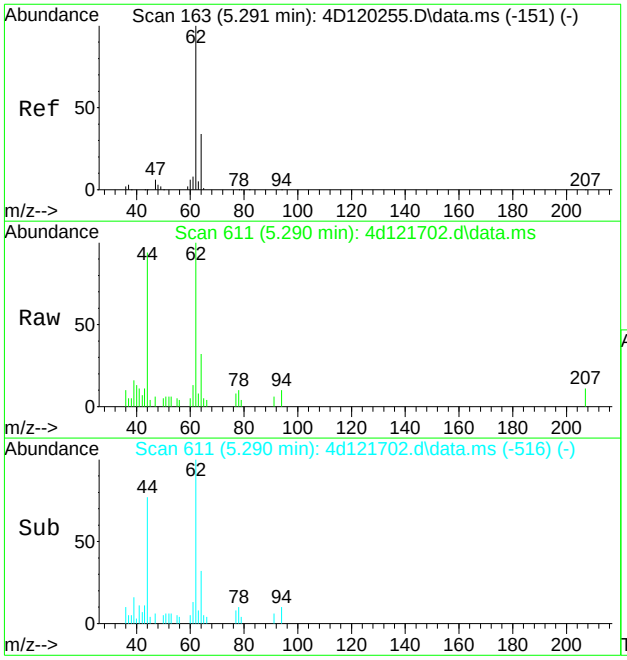
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121702.d
Acq On : 29 Sep 2022 11:39 pm
Operator : taylors
Sample : jd52514-2 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,10
ALS Vial : 33 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 20:44:29 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

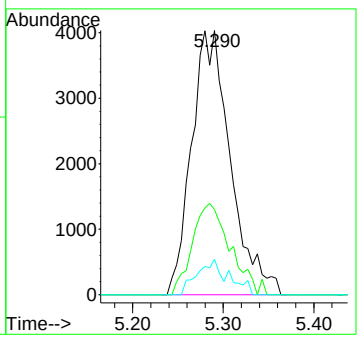


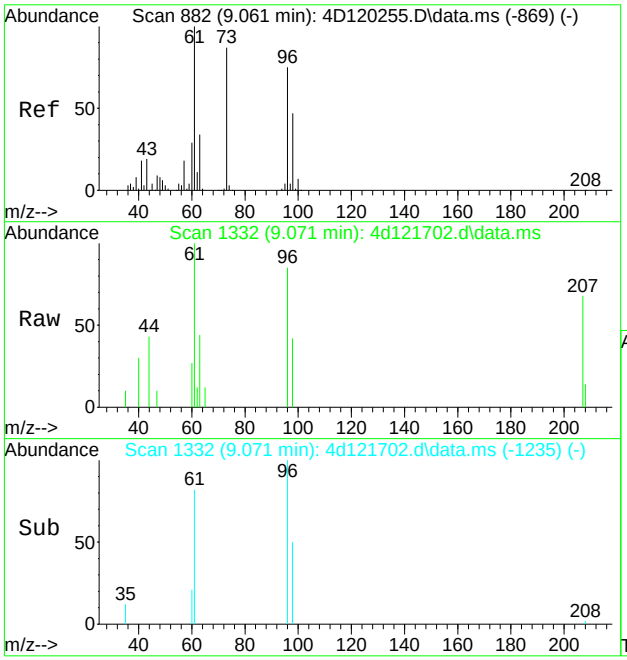



#9
vinyl chloride
Concen: 1.37 ug/L
RT: 5.290 min Scan# 611
Delta R.T. -0.001 min
Lab File: 4d121702.d
Acq: 29 Sep 2022 11:39 pm

Tgt Ion: 62 Resp: 12028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.3 | 4.0 | 64.0 |
| 61 | 13.5 | 0.0 | 38.3 |

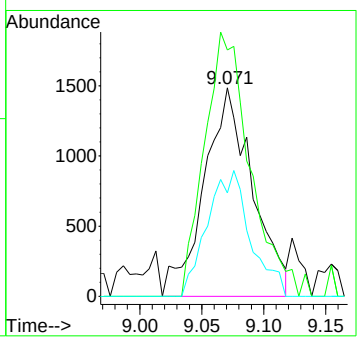


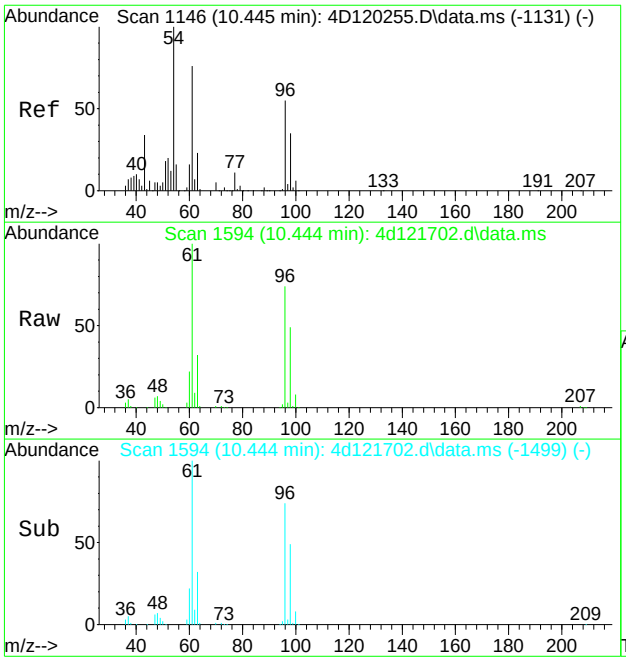




#25
trans-1,2-dichloroethene
Concen: 0.56 ug/L
RT: 9.071 min Scan# 1332
Delta R.T. 0.010 min
Lab File: 4d121702.d
Acq: 29 Sep 2022 11:39 pm

Tgt Ion: 96 Resp: 4029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 118.1 | 103.0 | 163.0 |
| 98 | 49.6 | 32.0 | 92.0 |

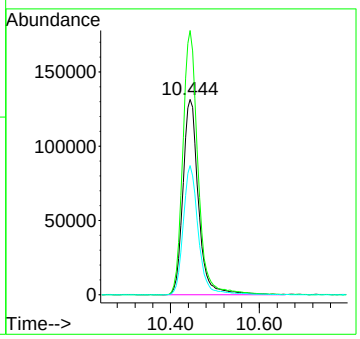


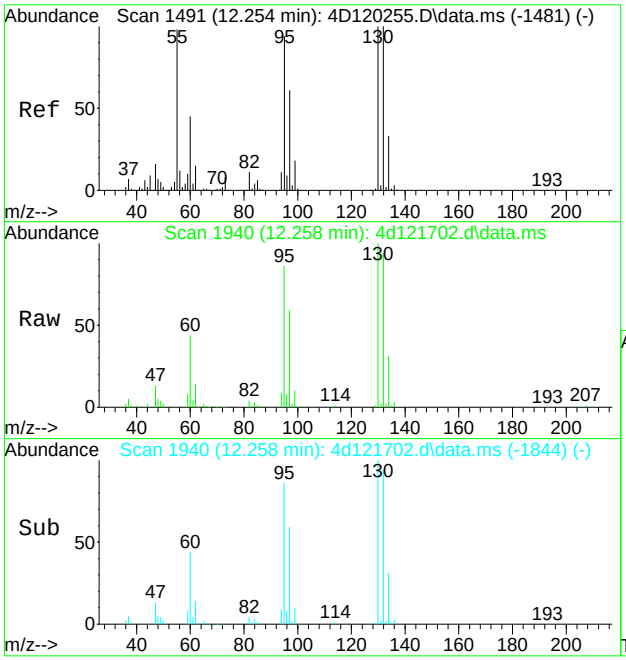



#36
cis-1,2-dichloroethene
Concen: 40.26 ug/L
RT: 10.444 min Scan# 1594
Delta R.T. -0.001 min
Lab File: 4d121702.d
Acq: 29 Sep 2022 11:39 pm

Tgt Ion: 96 Resp: 319346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.3 | 107.6 | 167.6 |
| 98 | 66.1 | 33.7 | 93.7 |

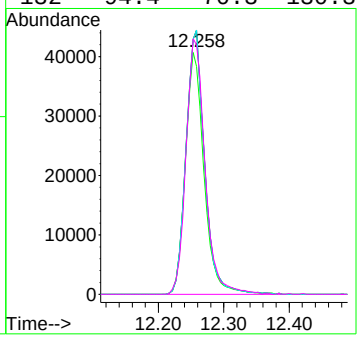



#60
trichloroethene
Concen: 10.69 ug/L
RT: 12.258 min Scan# 1940
Delta R.T. 0.004 min
Lab File: 4d121702.d
Acq: 29 Sep 2022 11:39 pm

Tgt Ion:130 Resp: 87853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 86.2 | 64.3 | 124.3 |
| 130 | 100.0 | 70.0 | 130.0 |
| 132 | 94.4 | 70.3 | 130.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200657.d
Acq On : 30 Sep 2022 3:13 pm
Operator : taylors
Sample : jd52514-3 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,2
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:53:51 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

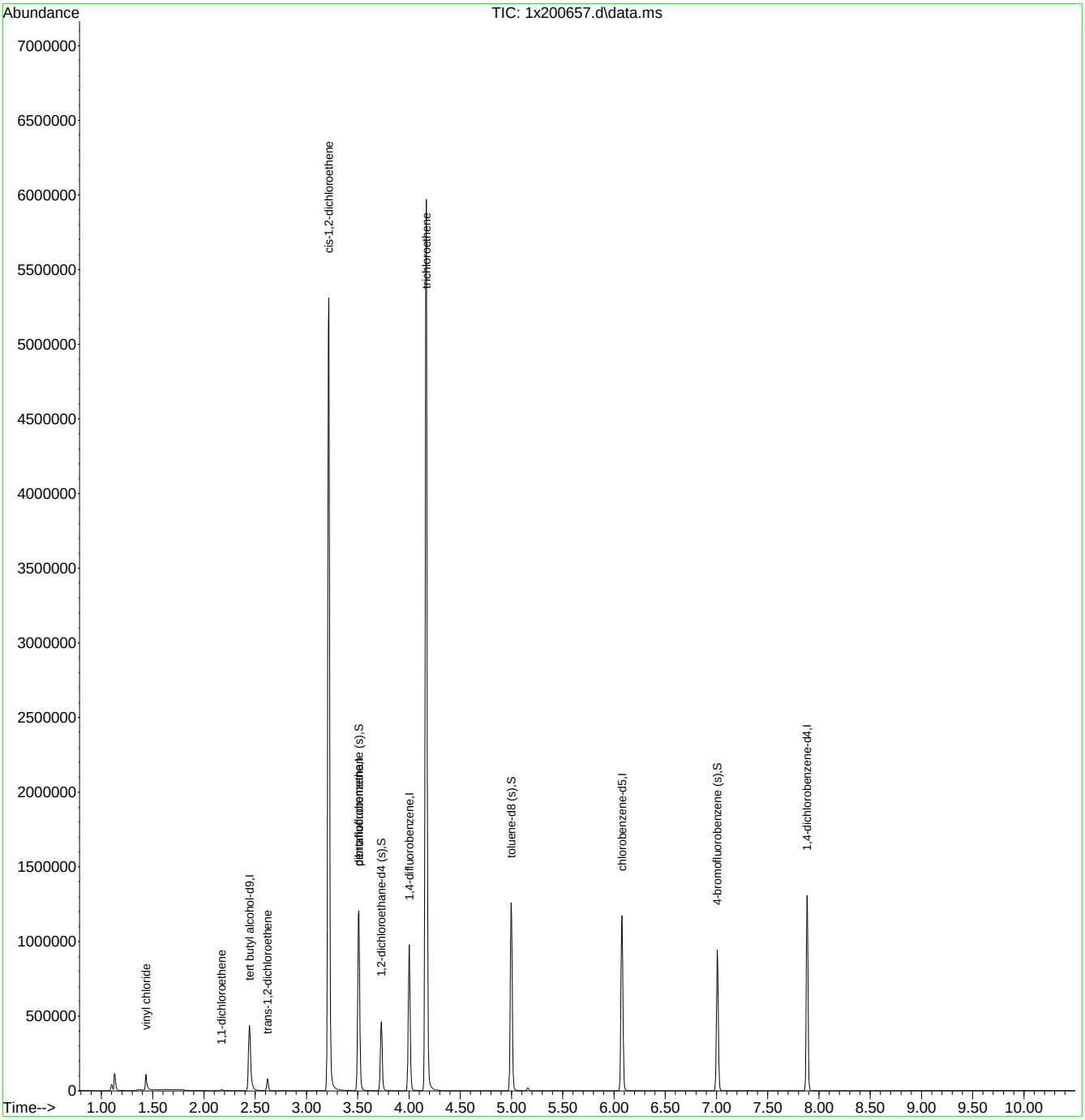
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.445 | 65 | 350516 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.512 | 168 | 412643 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.003 | 114 | 572495 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.079 | 117 | 533719 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 263701 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.512 | 113 | 185547 | 47.67 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.34% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.731 | 65 | 212412 | 48.54 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 97.08% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 629240 | 49.29 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.58% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 229235 | 50.07 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.14% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.436 | 62 | 65966 | 18.12 | ug/L | 99 |
| 16) 1,1-dichloroethene | 2.173 | 96 | 1875 | 0.81 | ug/L | 90 |
| 26) trans-1,2-dichloroethene | 2.621 | 96 | 18868 | 7.57 | ug/L | 97 |
| 36) cis-1,2-dichloroethene | 3.219 | 96 | 1514302 | 562.53 | ug/L | 88 |
| 61) trichloroethene | 4.169 | 130 | 1436604 | 480.36 | ug/L | 97 |

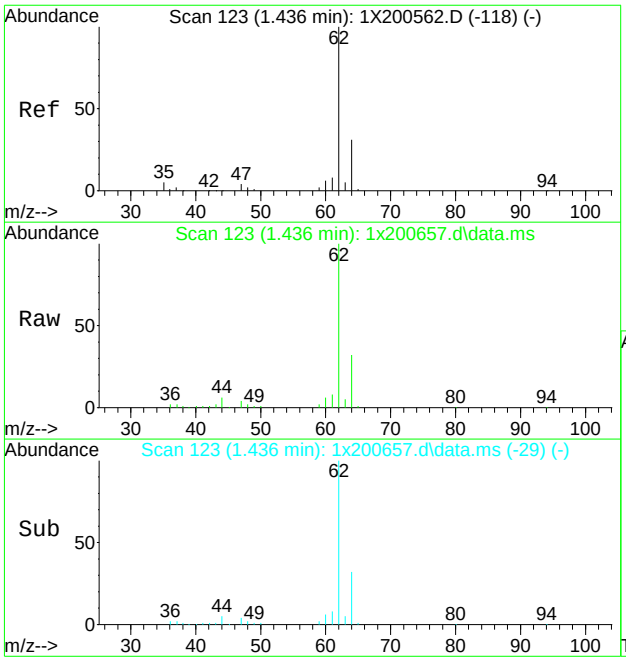
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200657.d
Acq On : 30 Sep 2022 3:13 pm
Operator : taylors
Sample : jd52514-3 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,2
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:53:51 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

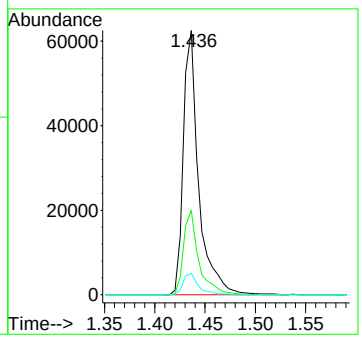


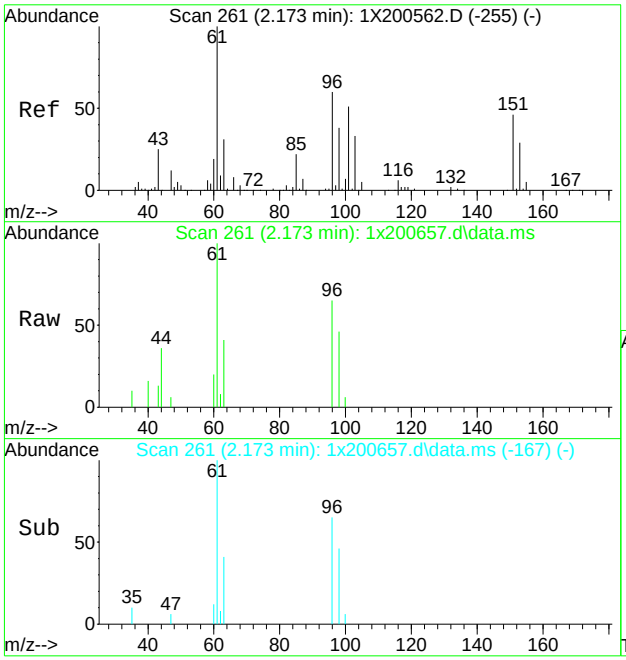



#9
vinyl chloride
Concen: 18.12 ug/L
RT: 1.436 min Scan# 123
Delta R.T. -0.000 min
Lab File: 1x200657.d
Acq: 30 Sep 2022 3:13 pm

Tgt Ion: 62 Resp: 65966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.1 | 1.4 | 61.4 |
| 61 | 8.2 | 0.0 | 38.2 |

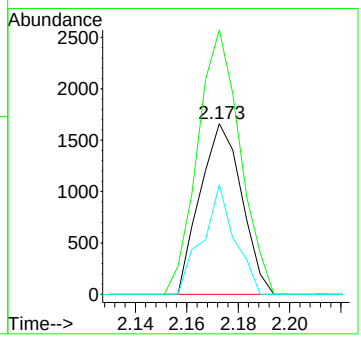


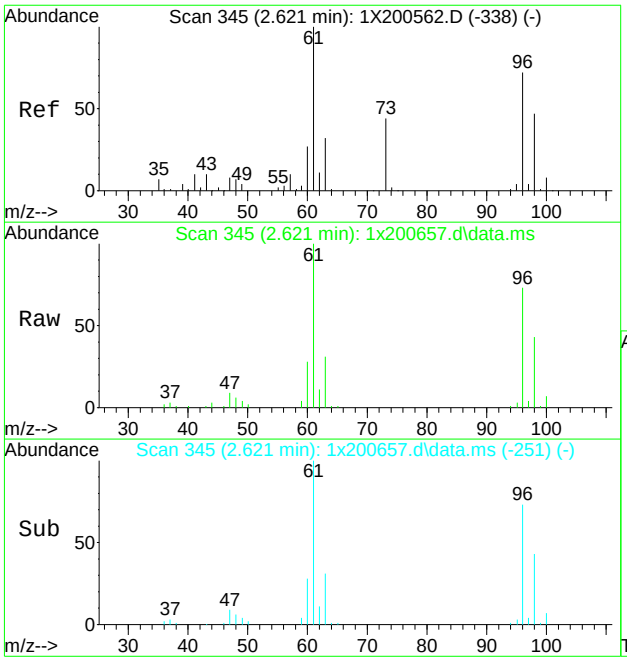




#16
1,1-dichloroethene
Concen: 0.81 ug/L
RT: 2.173 min Scan# 261
Delta R.T. -0.000 min
Lab File: 1x200657.d
Acq: 30 Sep 2022 3:13 pm

Tgt Ion: 96 Resp: 1875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 154.8 | 135.9 | 195.9 |
| 63 | 64.2 | 21.9 | 81.9 |

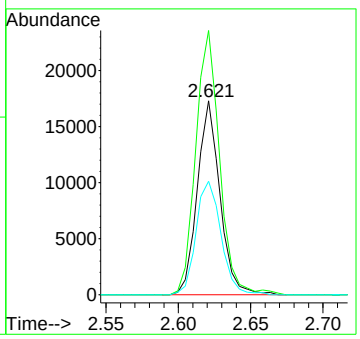


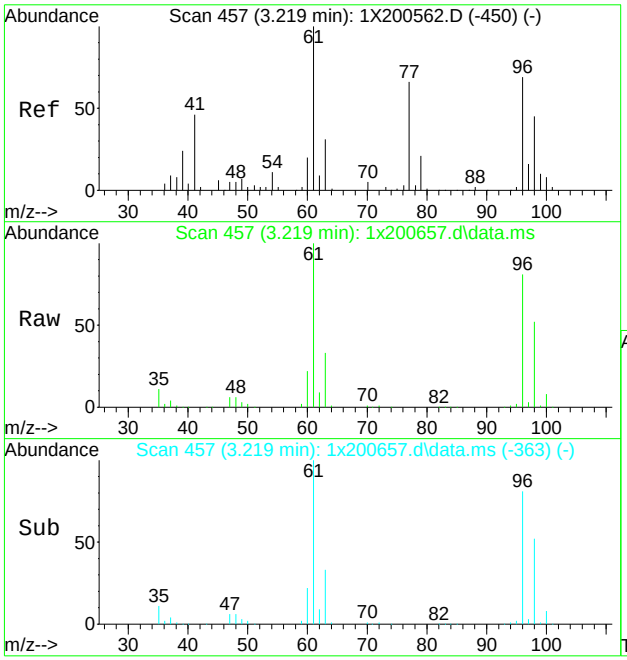



#26
trans-1,2-dichloroethene
Concen: 7.57 ug/L
RT: 2.621 min Scan# 345
Delta R.T. -0.000 min
Lab File: 1x200657.d
Acq: 30 Sep 2022 3:13 pm

Tgt Ion: 96 Resp: 18868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.3 | 108.1 | 168.1 |
| 98 | 58.6 | 34.7 | 94.7 |

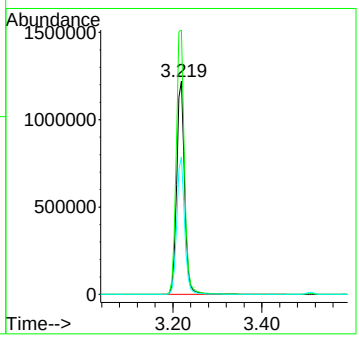


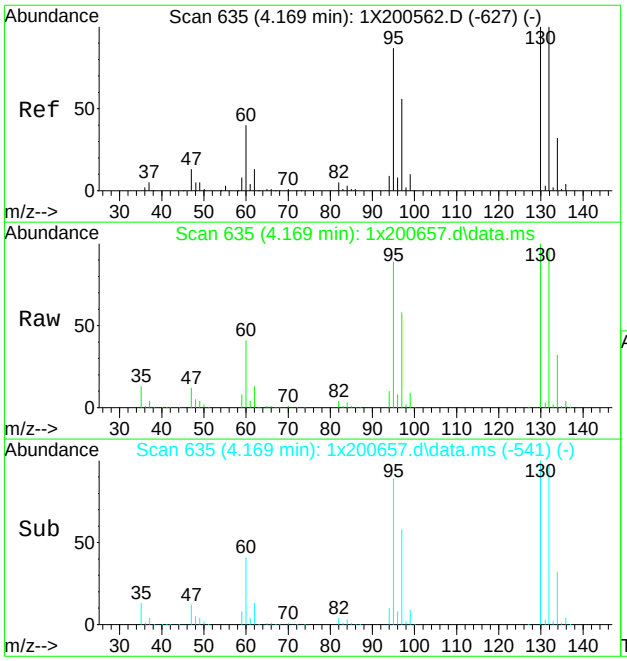




#36
cis-1,2-dichloroethene
Concen: 562.53 ug/L
RT: 3.219 min Scan# 457
Delta R.T. 0.001 min
Lab File: 1x200657.d
Acq: 30 Sep 2022 3:13 pm

Tgt Ion: 96 Resp: 1514302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 124.0 | 115.4 | 175.4 |
| 98 | 64.4 | 36.1 | 96.1 |

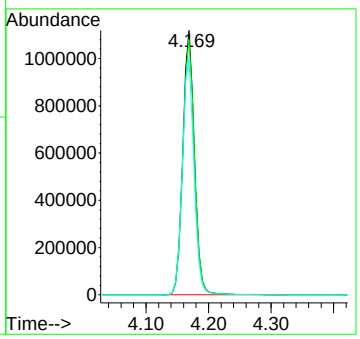





#61
trichloroethene
Concen: 480.36 ug/L
RT: 4.169 min Scan# 635
Delta R.T. 0.001 min
Lab File: 1x200657.d
Acq: 30 Sep 2022 3:13 pm

Tgt Ion:130 Resp: 1436604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 96.6 | 69.7 | 129.7 |
| 95 | 89.3 | 57.1 | 117.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121710.d
Acq On : 30 Sep 2022 3:30 am
Operator : taylors
Sample : jd52514-3 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,20
ALS Vial : 41 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 21:34:07 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

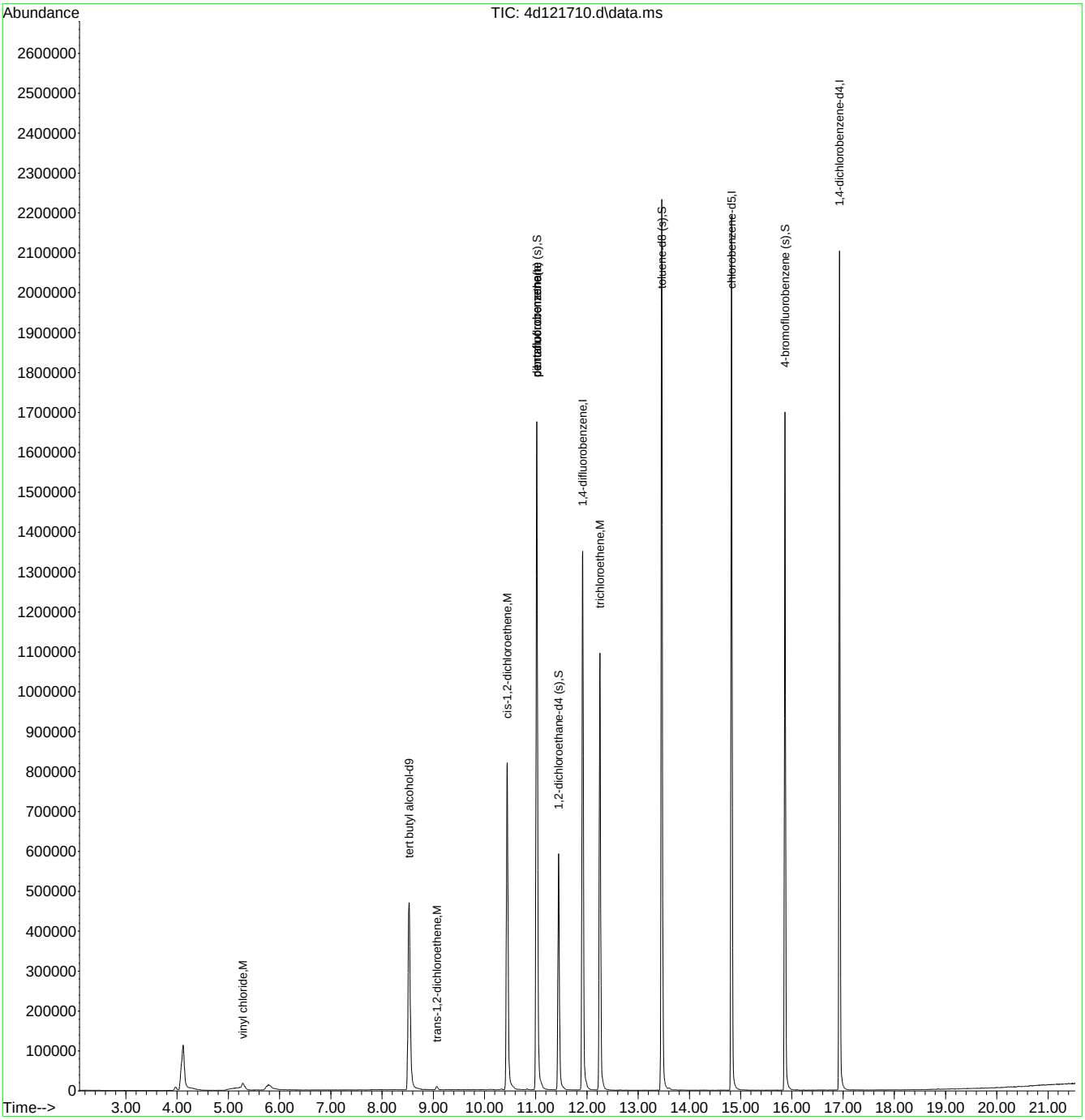
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 8.525 | 65 | 735236 | 500.00 | ug/L | -0.01 |
| 5) pentafluorobenzene | 11.021 | 168 | 837111 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 11.918 | 114 | 1202226 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 14.822 | 117 | 1182460 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.930 | 152 | 524869 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 11.021 | 168 | 837111 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 11.021 | 113 | 413654 | 52.14 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.28% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.446 | 65 | 445564 | 48.17 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 96.34% | | | |
| 74) toluene-d8 (s) | 13.459 | 98 | 1420817 | 49.86 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.72% | | | |
| 97) 4-bromofluorobenzene (s) | 15.866 | 95 | 525789 | 49.05 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.10% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 5.280 | 62 | 16506 | 1.86 | ug/L | 90 |
| 25) trans-1,2-dichloroethene | 9.071 | 96 | 5873 | 0.81 | ug/L | 90 |
| 36) cis-1,2-dichloroethene | 10.444 | 96 | 443803 | 55.11 | ug/L | 95 |
| 60) trichloroethene | 12.253 | 130 | 400563 | 47.98 | ug/L | 97 |

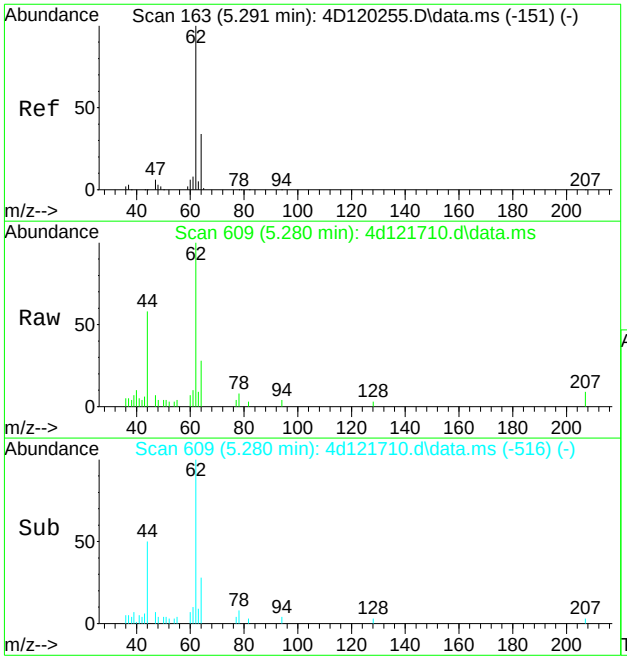
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121710.d
Acq On : 30 Sep 2022 3:30 am
Operator : taylors
Sample : jd52514-3 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,20
ALS Vial : 41 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 21:34:07 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

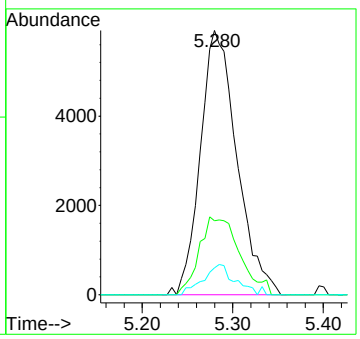


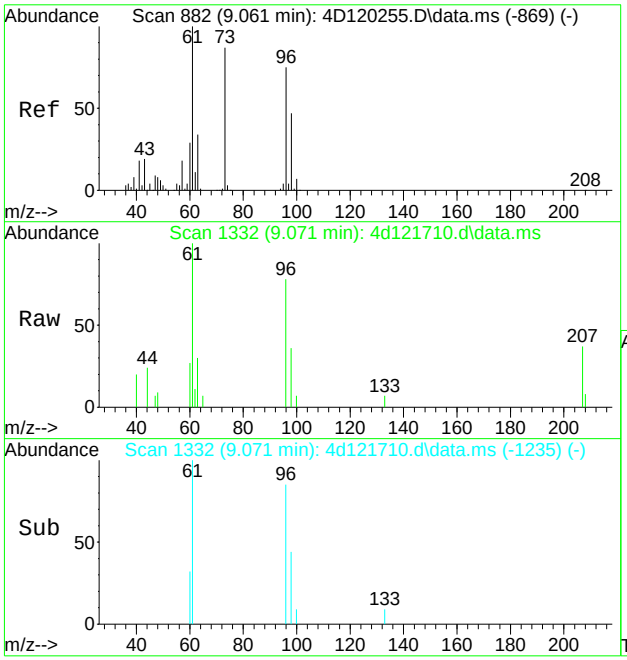



#9
vinyl chloride
Concen: 1.86 ug/L
RT: 5.280 min Scan# 609
Delta R.T. -0.011 min
Lab File: 4d121710.d
Acq: 30 Sep 2022 3:30 am

Tgt Ion: 62 Resp: 16506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 28.0 | 4.0 | 64.0 |
| 61 | 10.2 | 0.0 | 38.3 |

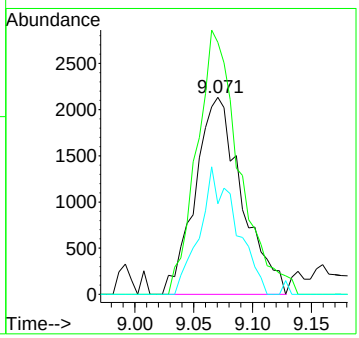


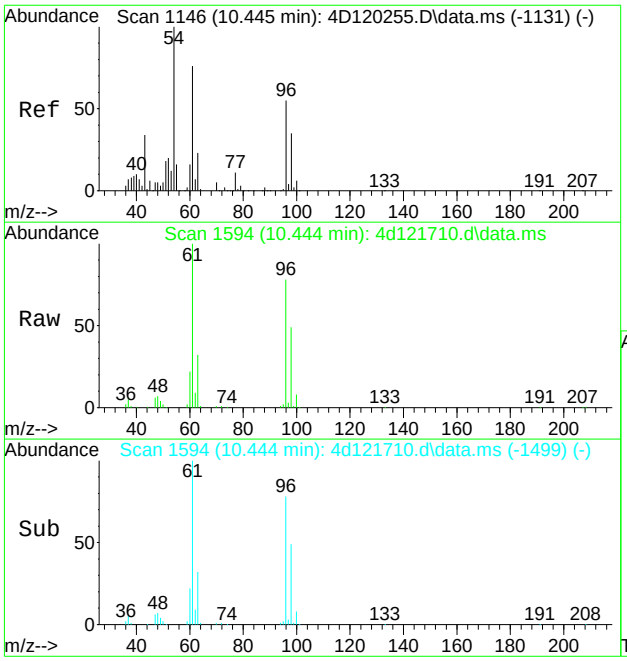




#25
trans-1,2-dichloroethene
Concen: 0.81 ug/L
RT: 9.071 min Scan# 1332
Delta R.T. 0.010 min
Lab File: 4d121710.d
Acq: 30 Sep 2022 3:30 am

Tgt Ion: 96 Resp: 5873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 128.0 | 103.0 | 163.0 |
| 98 | 46.0 | 32.0 | 92.0 |

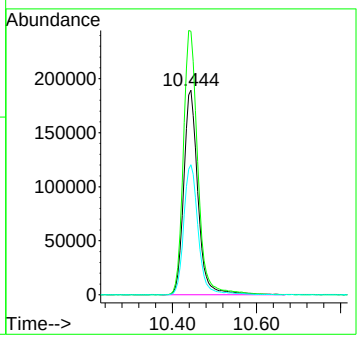


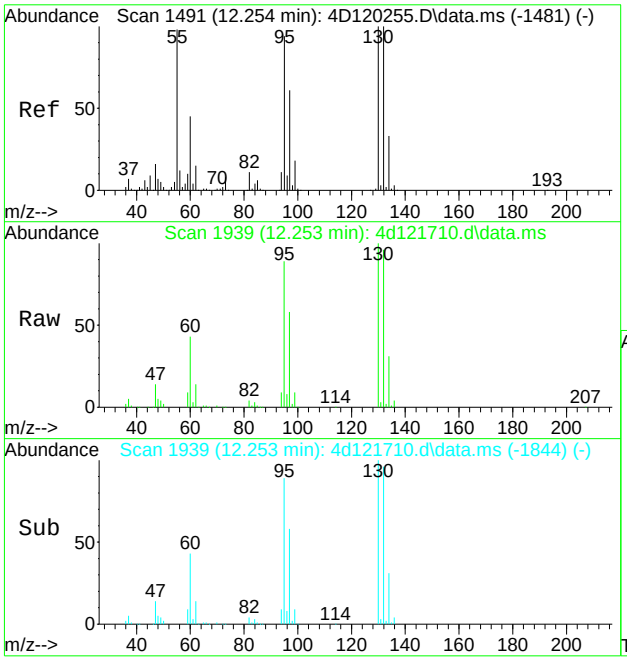



#36
cis-1,2-dichloroethene
Concen: 55.11 ug/L
RT: 10.444 min Scan# 1594
Delta R.T. -0.001 min
Lab File: 4d121710.d
Acq: 30 Sep 2022 3:30 am

Tgt Ion: 96 Resp: 443803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 128.7 | 107.6 | 167.6 |
| 98 | 63.6 | 33.7 | 93.7 |

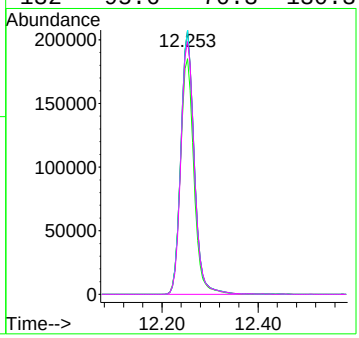



#60
trichloroethene
Concen: 47.98 ug/L
RT: 12.253 min Scan# 1939
Delta R.T. -0.001 min
Lab File: 4d121710.d
Acq: 30 Sep 2022 3:30 am

Tgt Ion:130 Resp: 400563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 89.2 | 64.3 | 124.3 |
| 130 | 100.0 | 70.0 | 130.0 |
| 132 | 95.6 | 70.3 | 130.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200655.d
Acq On : 30 Sep 2022 2:26 pm
Operator : taylors
Sample : jd52514-4 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,25
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:50:50 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

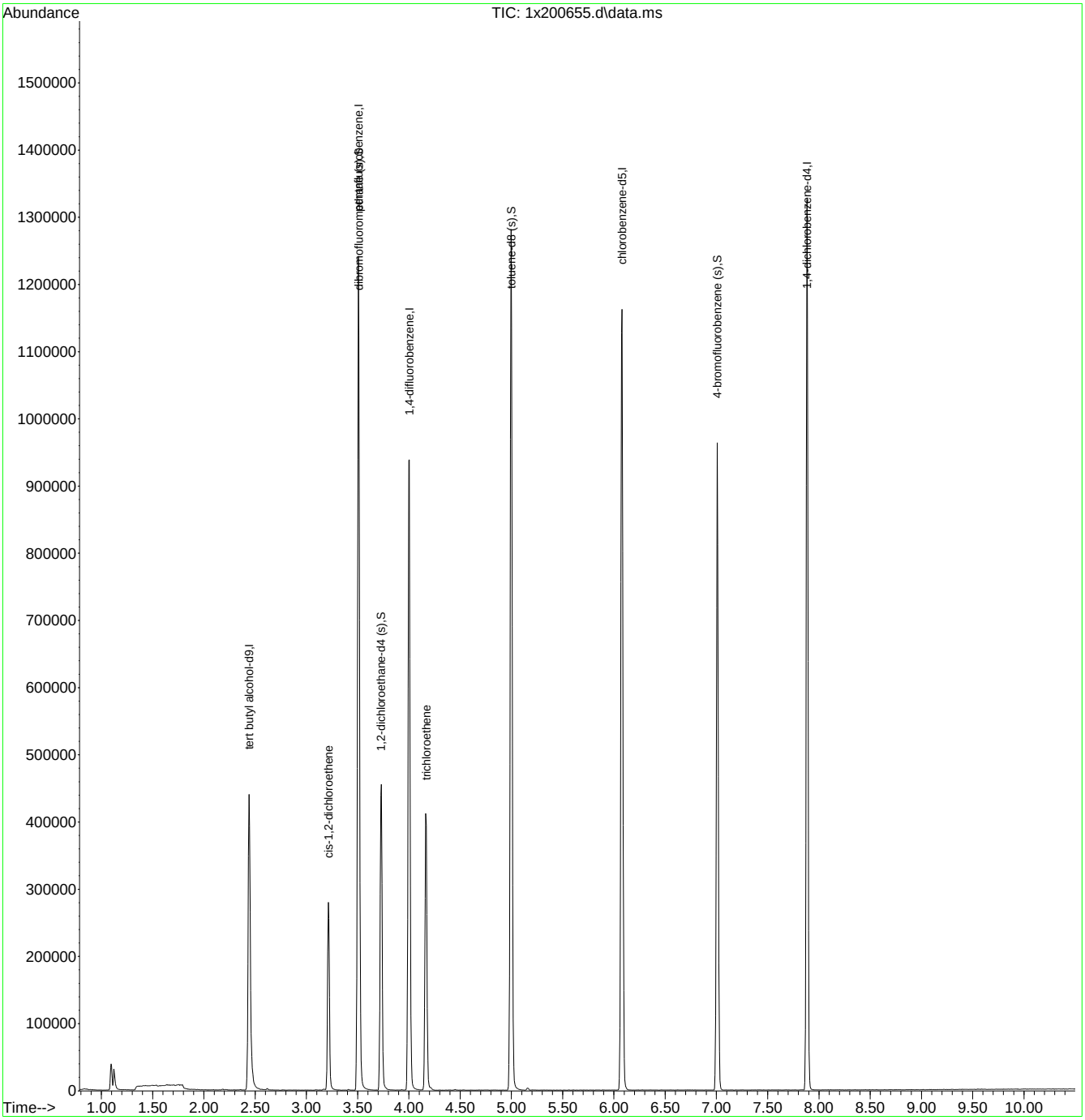
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.440 | 65 | 342761 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.507 | 168 | 412280 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.003 | 114 | 573426 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.079 | 117 | 532311 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 263100 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.512 | 113 | 184943 | 47.55 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.10% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.726 | 65 | 215344 | 49.13 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.26% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 632829 | 49.70 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.40% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 230767 | 50.52 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.04% | | | |
| Target Compounds | | | | | | Qvalue |
| 36) cis-1,2-dichloroethene | 3.213 | 96 | 81256 | 30.21 | ug/L | 92 |
| 61) trichloroethene | 4.169 | 130 | 103841 | 34.67 | ug/L | 96 |

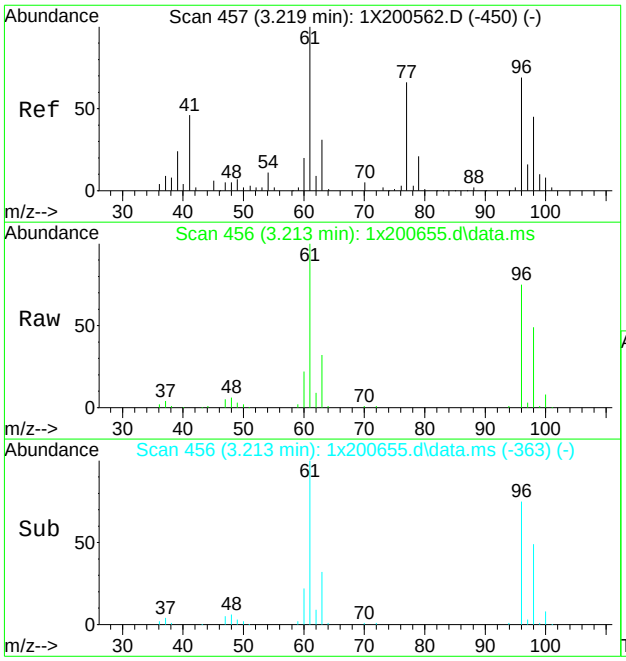
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200655.d
Acq On : 30 Sep 2022 2:26 pm
Operator : taylors
Sample : jd52514-4 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,25
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:50:50 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

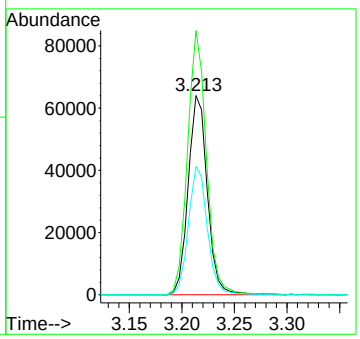


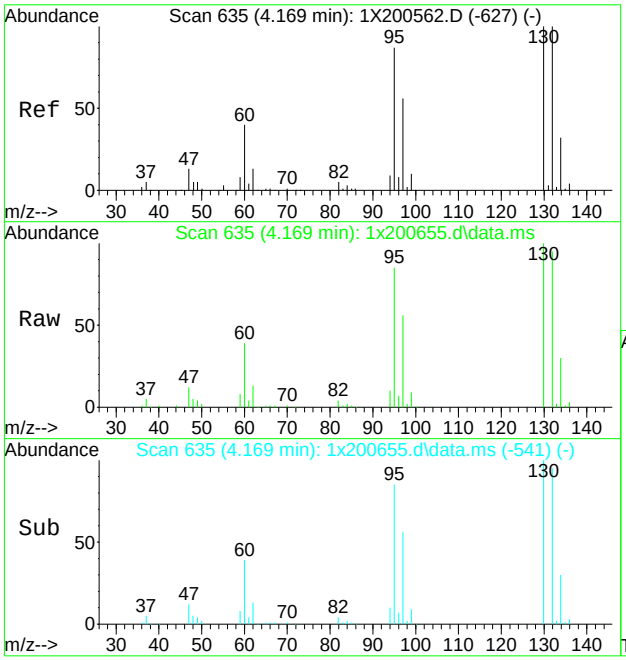



#36
cis-1,2-dichloroethene
Concen: 30.21 ug/L
RT: 3.213 min Scan# 456
Delta R.T. -0.005 min
Lab File: 1x200655.d
Acq: 30 Sep 2022 2:26 pm

Tgt Ion: 96 Resp: 81256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 132.7 | 115.4 | 175.4 |
| 98 | 64.5 | 36.1 | 96.1 |

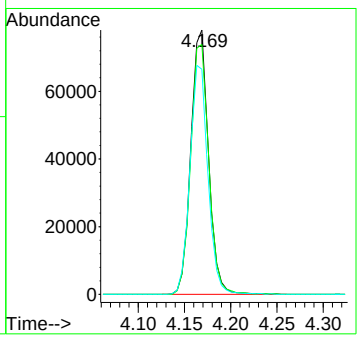



#61
trichloroethene
Concen: 34.67 ug/L
RT: 4.169 min Scan# 635
Delta R.T. 0.001 min
Lab File: 1x200655.d
Acq: 30 Sep 2022 2:26 pm

Tgt Ion:130 Resp: 103841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 94.6 | 69.7 | 129.7 |
| 95 | 85.1 | 57.1 | 117.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121711.d
Acq On : 30 Sep 2022 3:59 am
Operator : taylors
Sample : jd52514-4 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,4
ALS Vial : 42 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 22:06:05 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

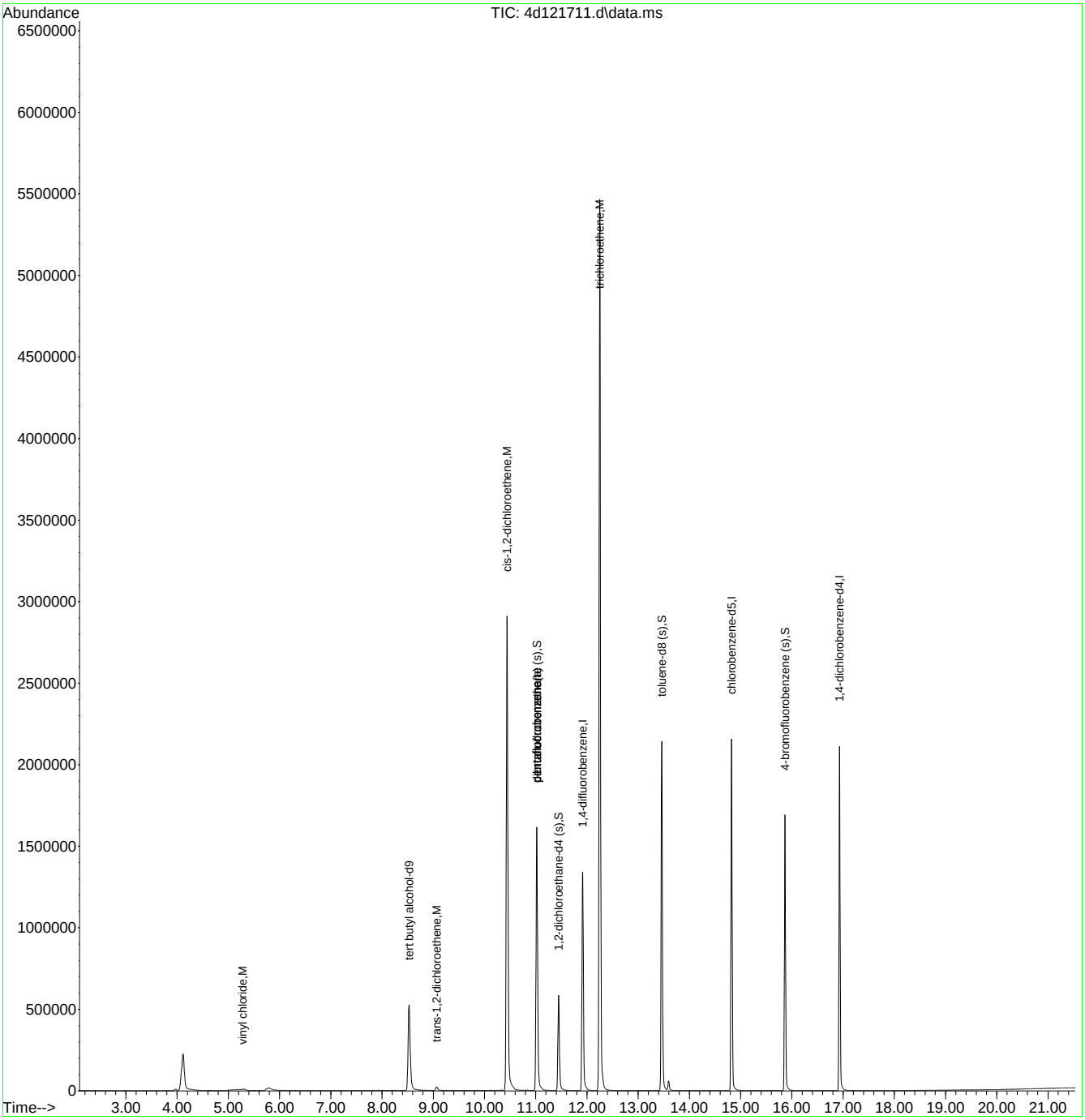
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 8.525 | 65 | 813617 | 500.00 | ug/L | -0.01 |
| 5) pentafluorobenzene | 11.021 | 168 | 806232 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 11.917 | 114 | 1176496 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 14.822 | 117 | 1166561 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.930 | 152 | 532065 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 11.021 | 168 | 806232 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 11.021 | 113 | 400489 | 52.41 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.82% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.446 | 65 | 444095 | 49.06 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.12% | | | |
| 74) toluene-d8 (s) | 13.459 | 98 | 1385415 | 49.28 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.56% | | | |
| 97) 4-bromofluorobenzene (s) | 15.865 | 95 | 526548 | 48.46 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.92% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 5.274 | 62 | 2691 | 0.31 | ug/L | 83 |
| 25) trans-1,2-dichloroethene | 9.065 | 96 | 14637 | 2.09 | ug/L | 94 |
| 36) cis-1,2-dichloroethene | 10.439 | 96 | 1496359 | 192.93 | ug/L | 97 |
| 60) trichloroethene | 12.248 | 130 | 1925847 | 235.72 | ug/L | 98 |

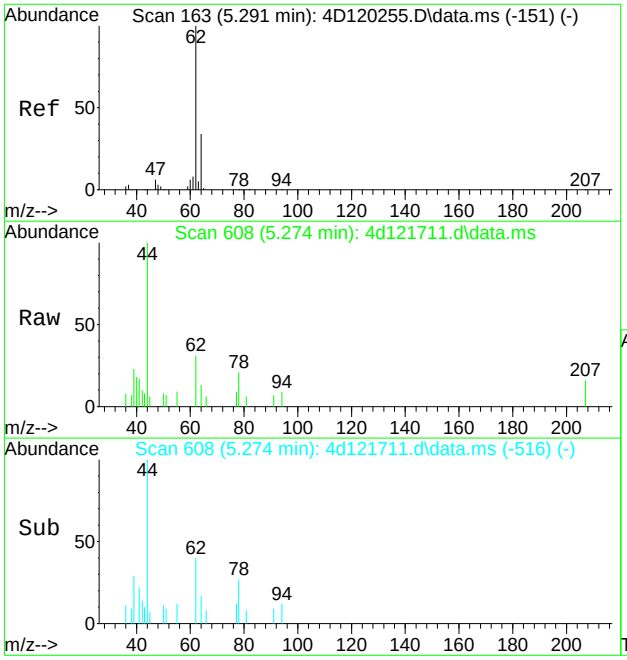
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121711.d
Acq On : 30 Sep 2022 3:59 am
Operator : taylors
Sample : jd52514-4 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,4
ALS Vial : 42 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 22:06:05 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

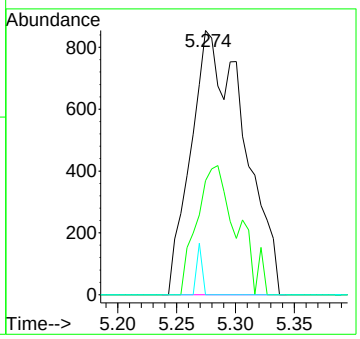


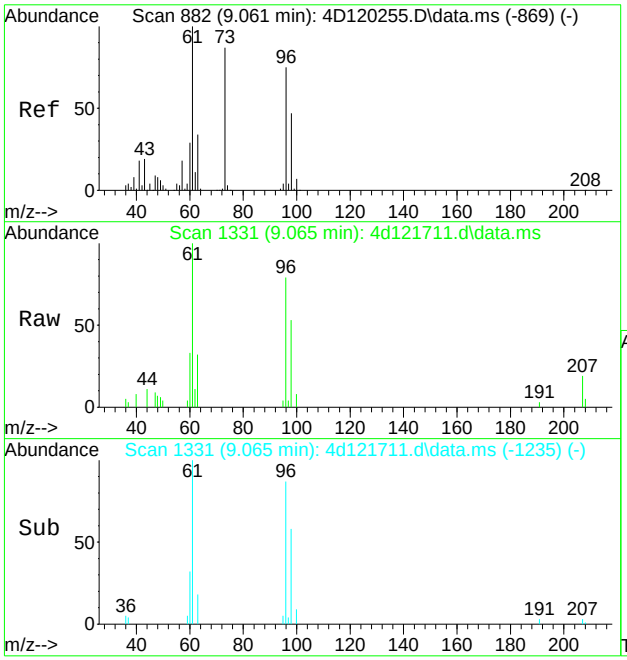



#9
vinyl chloride
Concen: 0.31 ug/L
RT: 5.274 min Scan# 608
Delta R.T. -0.017 min
Lab File: 4d121711.d
Acq: 30 Sep 2022 3:59 am

Tgt Ion: 62 Resp: 2691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 43.2 | 4.0 | 64.0 |
| 61 | 0.0 | 0.0 | 38.3 |

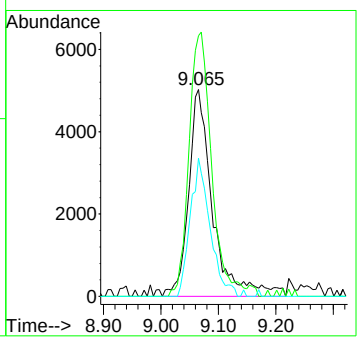


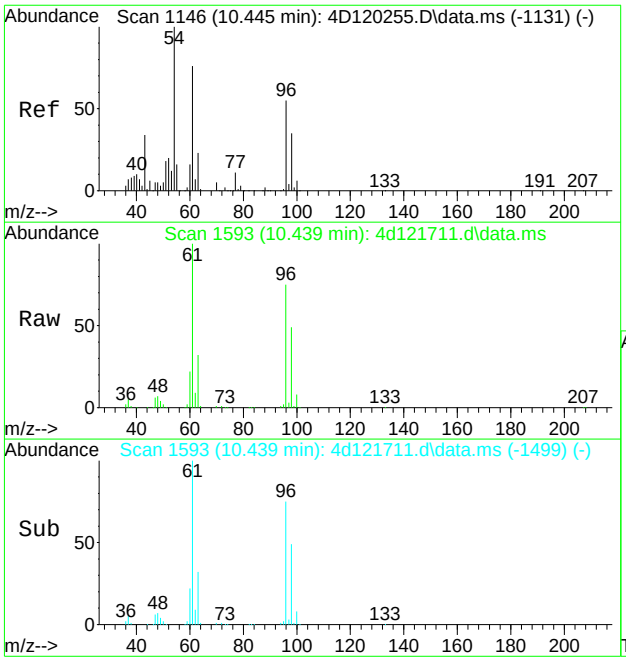




#25
trans-1,2-dichloroethene
Concen: 2.09 ug/L
RT: 9.065 min Scan# 1331
Delta R.T. 0.004 min
Lab File: 4d121711.d
Acq: 30 Sep 2022 3:59 am

Tgt Ion: 96 Resp: 14637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 125.9 | 103.0 | 163.0 |
| 98 | 66.8 | 32.0 | 92.0 |

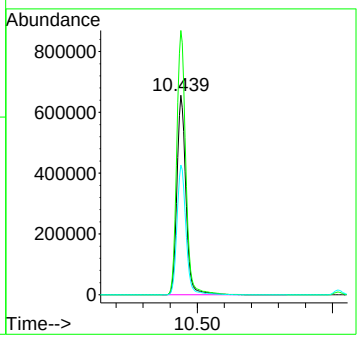


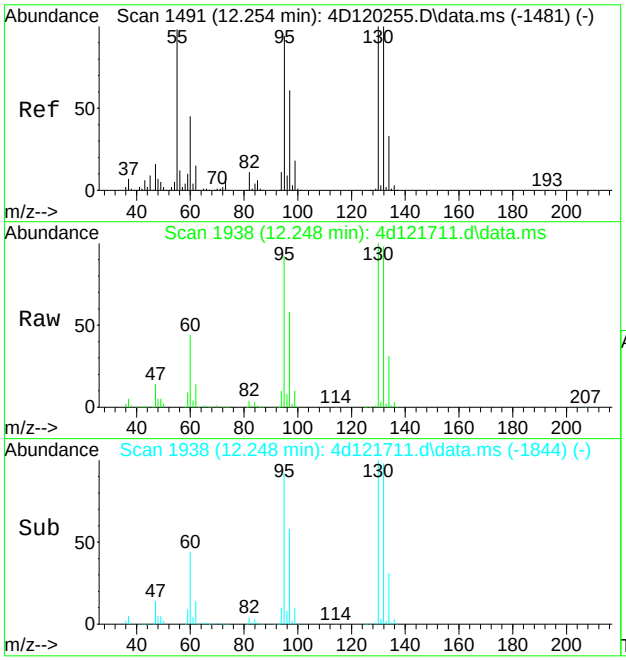



#36
cis-1,2-dichloroethene
Concen: 192.93 ug/L
RT: 10.439 min Scan# 1593
Delta R.T. -0.006 min
Lab File: 4d121711.d
Acq: 30 Sep 2022 3:59 am

Tgt Ion: 96 Resp: 1496359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 132.6 | 107.6 | 167.6 |
| 98 | 65.1 | 33.7 | 93.7 |

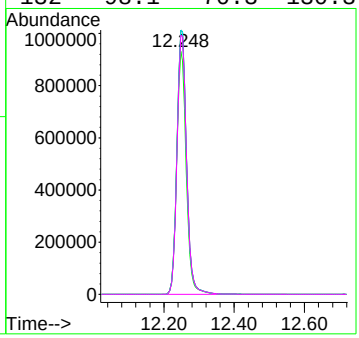



#60
trichloroethene
Concen: 235.72 ug/L
RT: 12.248 min Scan# 1938
Delta R.T. -0.006 min
Lab File: 4d121711.d
Acq: 30 Sep 2022 3:59 am

Tgt Ion:130 Resp: 1925847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 91.9 | 64.3 | 124.3 |
| 130 | 100.0 | 70.0 | 130.0 |
| 132 | 98.1 | 70.3 | 130.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200656.d
Acq On : 30 Sep 2022 2:50 pm
Operator : taylors
Sample : jd52514-5 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,2
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:51:44 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

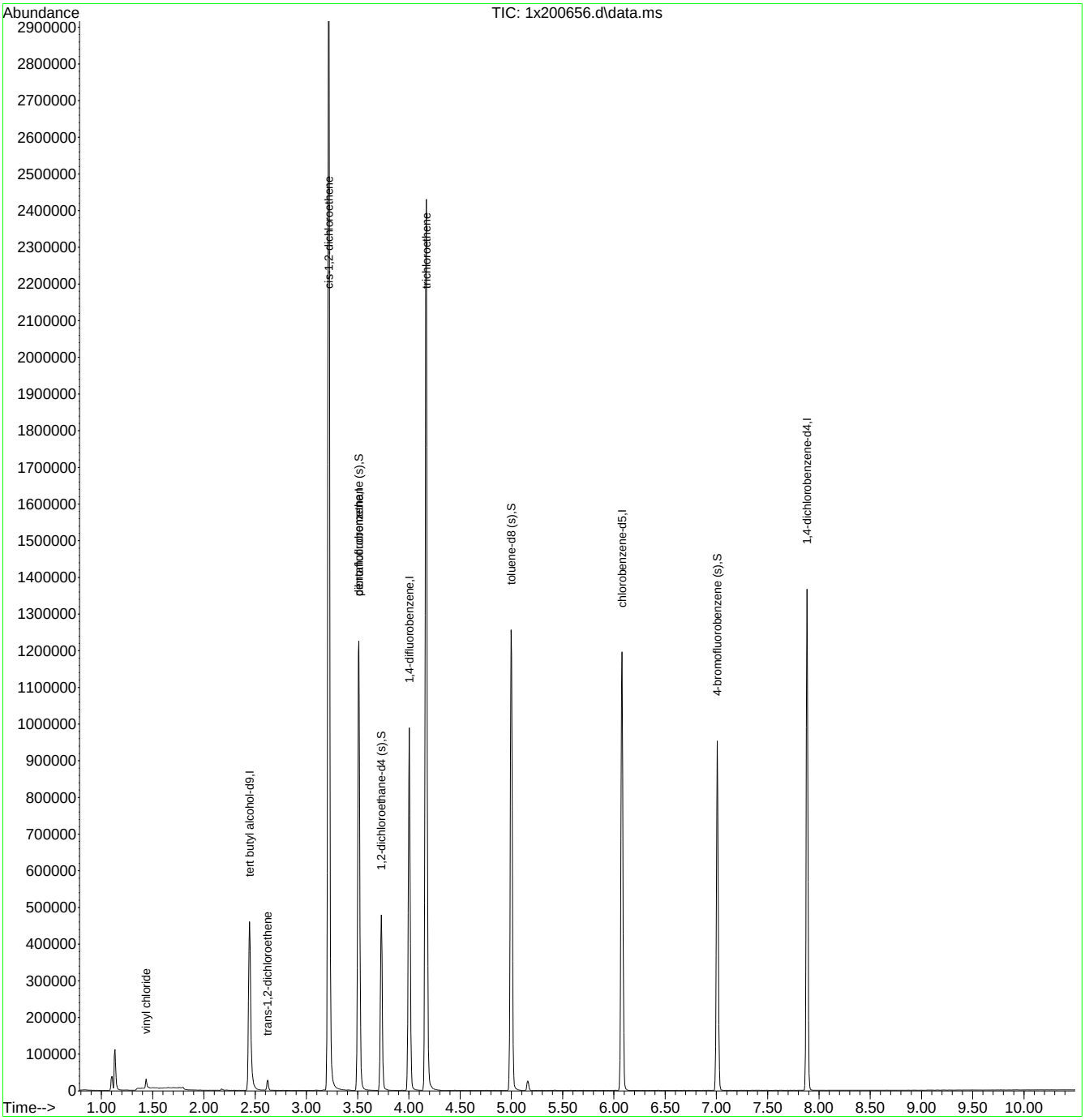
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.445 | 65 | 363137 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.512 | 168 | 415083 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.003 | 114 | 578038 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.079 | 117 | 532727 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 265249 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.512 | 113 | 186708 | 47.68 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.36% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.731 | 65 | 216477 | 49.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.00% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 635858 | 49.90 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.80% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 230944 | 50.15 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.30% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.436 | 62 | 15318 | 4.18 | ug/L | 97 |
| 26) trans-1,2-dichloroethene | 2.621 | 96 | 6877 | 2.74 | ug/L | 95 |
| 36) cis-1,2-dichloroethene | 3.219 | 96 | 890023 | 328.68 | ug/L | 89 |
| 61) trichloroethene | 4.169 | 130 | 582515 | 192.91 | ug/L | 98 |

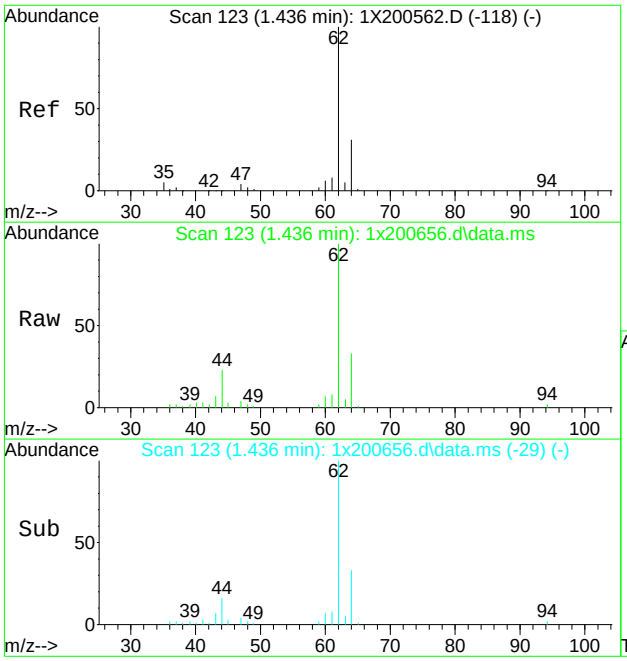
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200656.d
Acq On : 30 Sep 2022 2:50 pm
Operator : taylors
Sample : jd52514-5 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,2
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:51:44 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

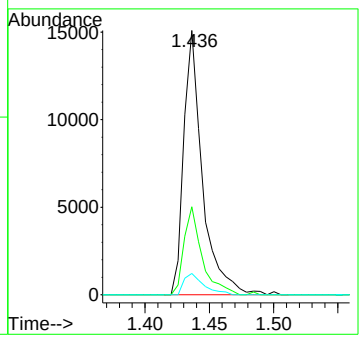


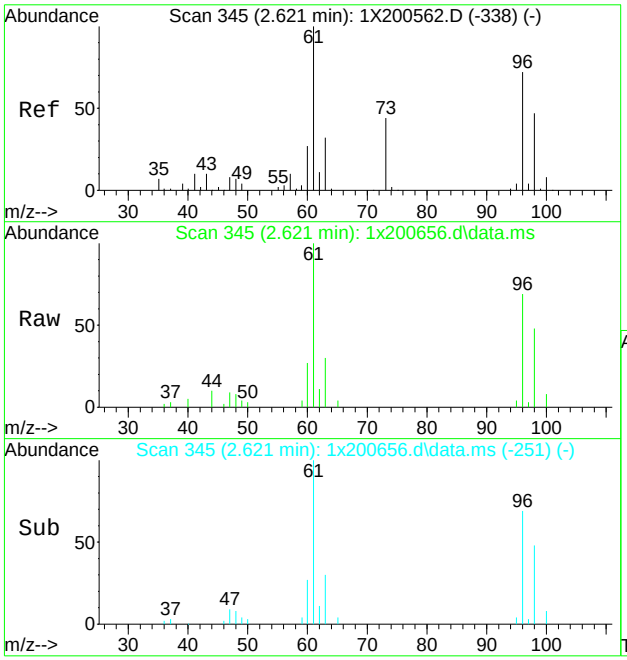



#9
vinyl chloride
Concen: 4.18 ug/L
RT: 1.436 min Scan# 123
Delta R.T. -0.000 min
Lab File: 1x200656.d
Acq: 30 Sep 2022 2:50 pm

Tgt Ion: 62 Resp: 15318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.3 | 1.4 | 61.4 |
| 61 | 8.1 | 0.0 | 38.2 |

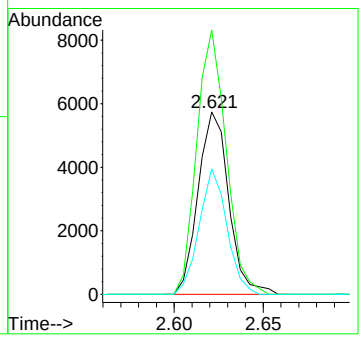


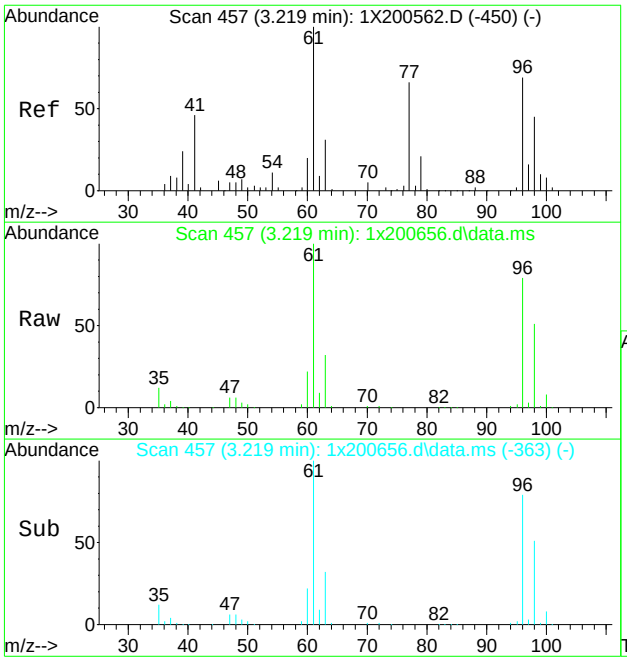




#26
trans-1,2-dichloroethene
Concen: 2.74 ug/L
RT: 2.621 min Scan# 345
Delta R.T. 0.000 min
Lab File: 1x200656.d
Acq: 30 Sep 2022 2:50 pm

Tgt Ion: 96 Resp: 6877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 144.8 | 108.1 | 168.1 |
| 98 | 68.9 | 34.7 | 94.7 |

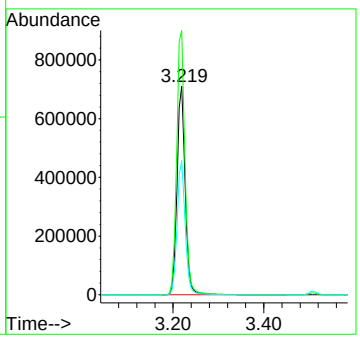


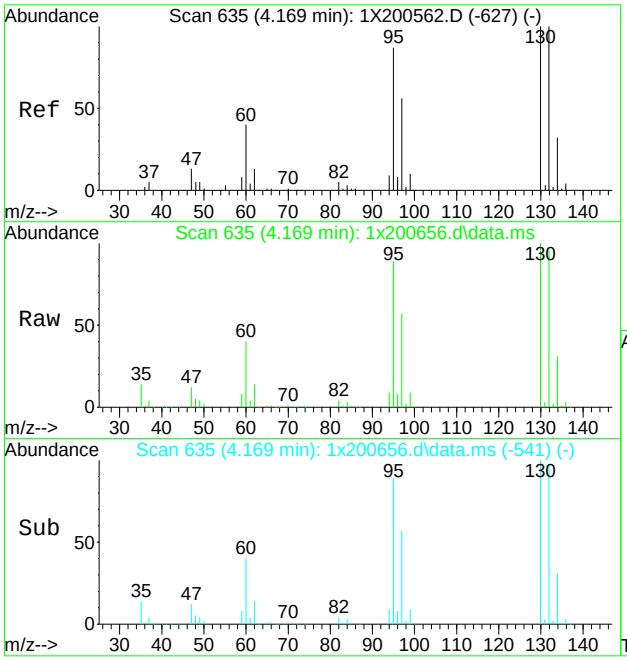



#36
cis-1,2-dichloroethene
Concen: 328.68 ug/L
RT: 3.219 min Scan# 457
Delta R.T. 0.001 min
Lab File: 1x200656.d
Acq: 30 Sep 2022 2:50 pm

Tgt Ion: 96 Resp: 890023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 126.7 | 115.4 | 175.4 |
| 98 | 64.4 | 36.1 | 96.1 |

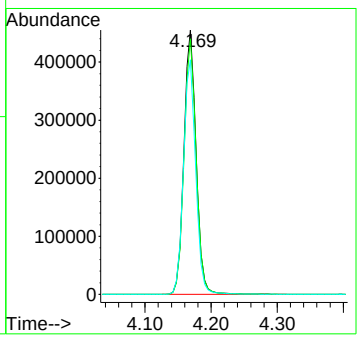



#61
trichloroethene
Concen: 192.91 ug/L
RT: 4.169 min Scan# 635
Delta R.T. 0.001 min
Lab File: 1x200656.d
Acq: 30 Sep 2022 2:50 pm

Tgt Ion:130 Resp: 582515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 96.6 | 69.7 | 129.7 |
| 95 | 88.7 | 57.1 | 117.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121712.d
Acq On : 30 Sep 2022 4:28 am
Operator : taylors
Sample : jd52514-5 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,5
ALS Vial : 43 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 22:08:42 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

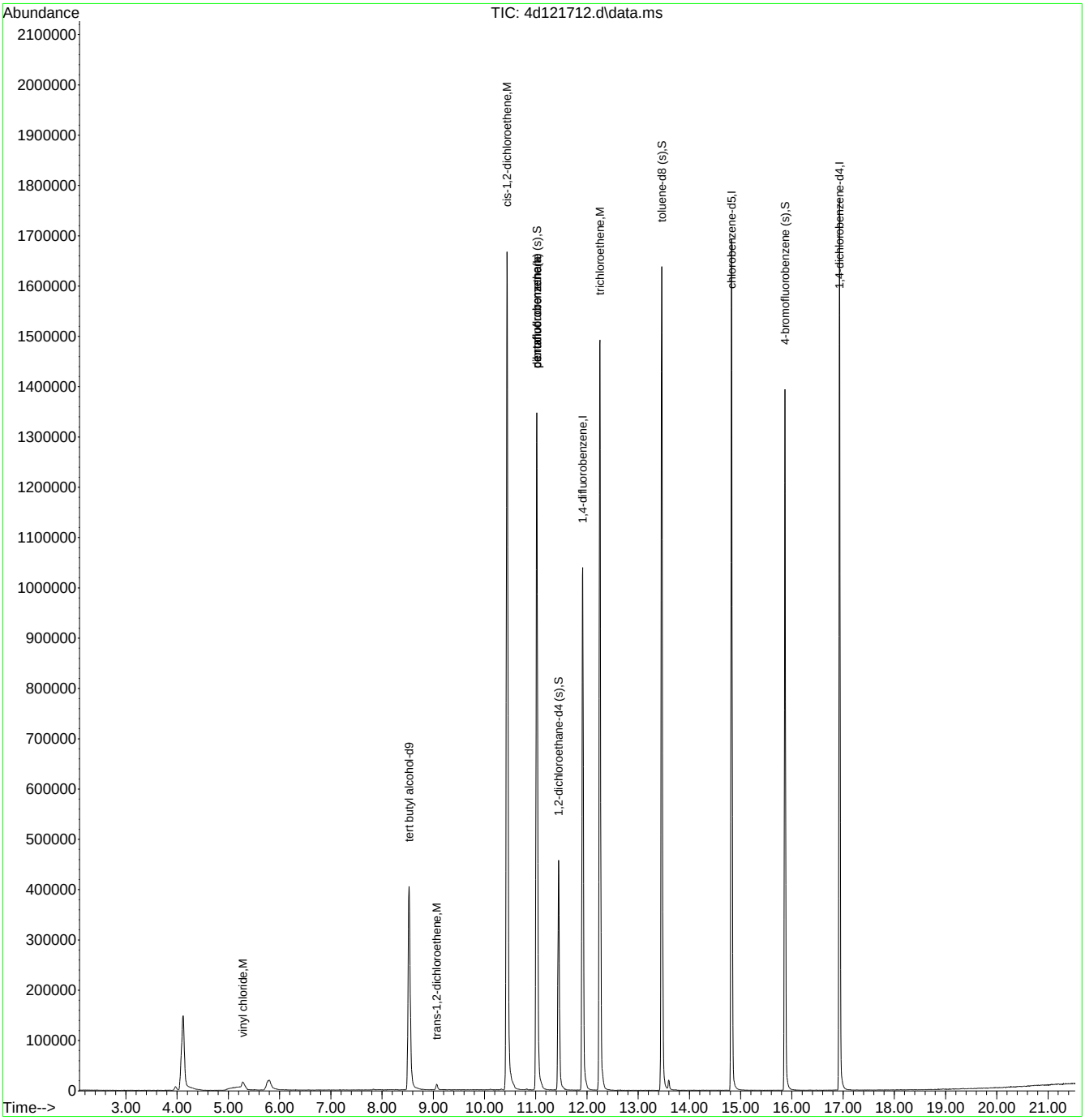
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 8.525 | 65 | 628226 | 500.00 | ug/L | -0.01 |
| 5) pentafluorobenzene | 11.021 | 168 | 686119 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 11.918 | 114 | 925415 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 14.822 | 117 | 903428 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.930 | 152 | 429468 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 11.021 | 168 | 686119 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 11.021 | 113 | 337185 | 51.85 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.70% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.446 | 65 | 342215 | 48.06 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 96.12% | | | |
| 74) toluene-d8 (s) | 13.459 | 98 | 1048139 | 48.14 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.28% | | | |
| 97) 4-bromofluorobenzene (s) | 15.866 | 95 | 397940 | 45.37 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 90.74% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 5.280 | 62 | 14957 | 2.05 | ug/L | 94 |
| 25) trans-1,2-dichloroethene | 9.065 | 96 | 7888 | 1.32 | ug/L | 96 |
| 36) cis-1,2-dichloroethene | 10.439 | 96 | 888662 | 134.63 | ug/L | 94 |
| 60) trichloroethene | 12.253 | 130 | 544846 | 84.78 | ug/L | 97 |

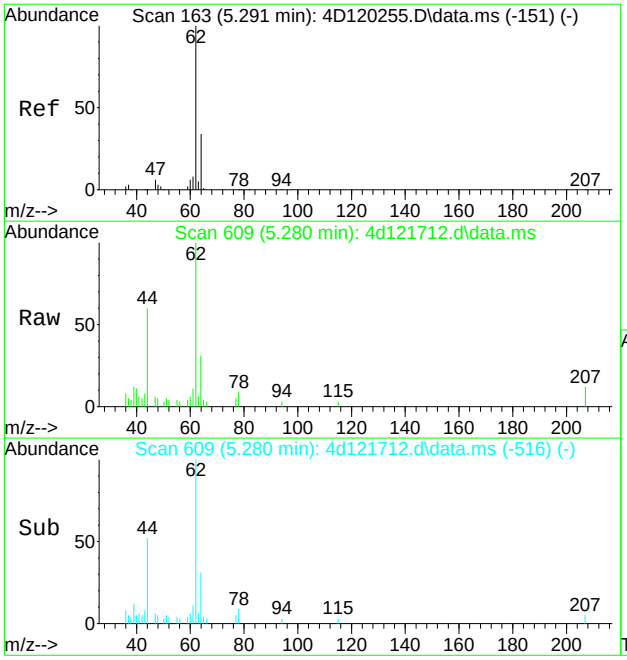
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121712.d
Acq On : 30 Sep 2022 4:28 am
Operator : taylors
Sample : jd52514-5 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,5
ALS Vial : 43 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 22:08:42 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

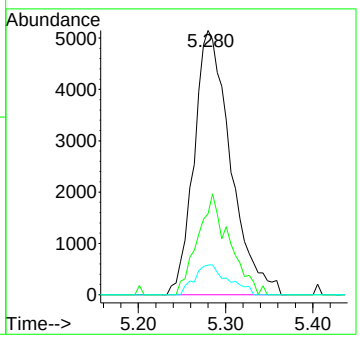


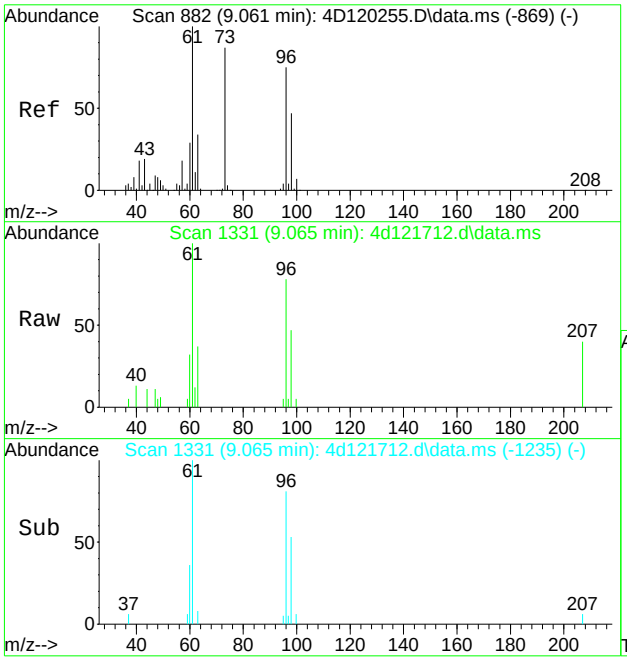



#9
vinyl chloride
Concen: 2.05 ug/L
RT: 5.280 min Scan# 609
Delta R.T. -0.011 min
Lab File: 4d121712.d
Acq: 30 Sep 2022 4:28 am

Tgt Ion: 62 Resp: 14957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.6 | 4.0 | 64.0 |
| 61 | 11.3 | 0.0 | 38.3 |

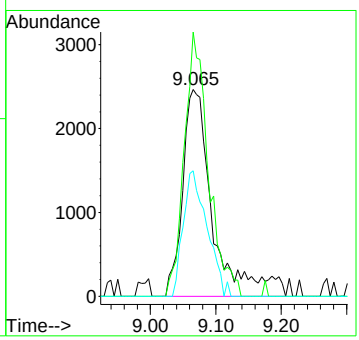


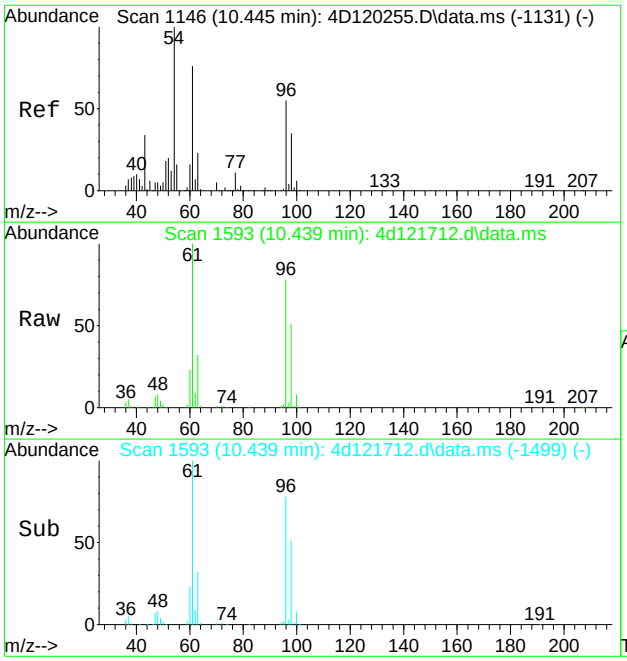




#25
trans-1,2-dichloroethene
Concen: 1.32 ug/L
RT: 9.065 min Scan# 1331
Delta R.T. 0.004 min
Lab File: 4d121712.d
Acq: 30 Sep 2022 4:28 am

Tgt Ion: 96 Resp: 7888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 127.8 | 103.0 | 163.0 |
| 98 | 60.7 | 32.0 | 92.0 |

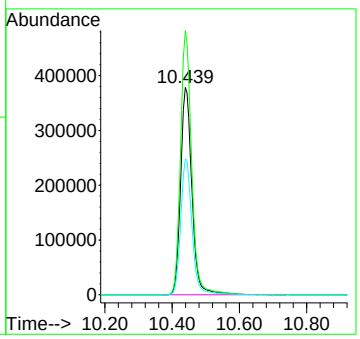


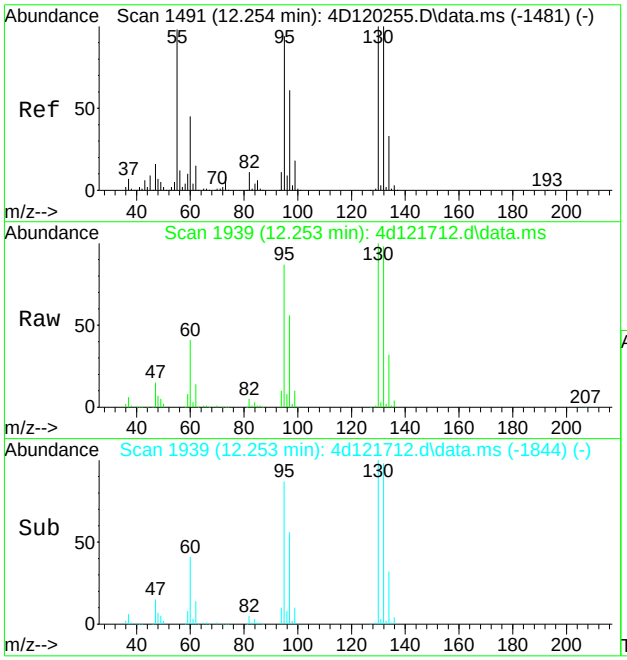



#36
cis-1,2-dichloroethene
Concen: 134.63 ug/L
RT: 10.439 min Scan# 1593
Delta R.T. -0.006 min
Lab File: 4d121712.d
Acq: 30 Sep 2022 4:28 am

Tgt Ion: 96 Resp: 888662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 127.5 | 107.6 | 167.6 |
| 98 | 65.5 | 33.7 | 93.7 |

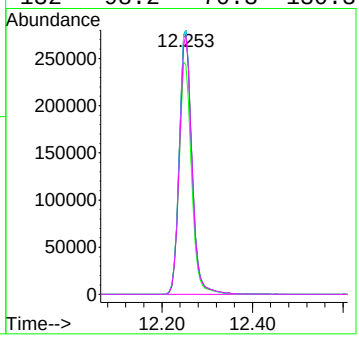



#60
trichloroethene
Concen: 84.78 ug/L
RT: 12.253 min Scan# 1939
Delta R.T. -0.001 min
Lab File: 4d121712.d
Acq: 30 Sep 2022 4:28 am

Tgt Ion:130 Resp: 544846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 86.8 | 64.3 | 124.3 |
| 130 | 100.0 | 70.0 | 130.0 |
| 132 | 98.2 | 70.3 | 130.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200652.d
Acq On : 30 Sep 2022 1:17 pm
Operator : taylors
Sample : jd52514-6 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,2
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:47:22 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

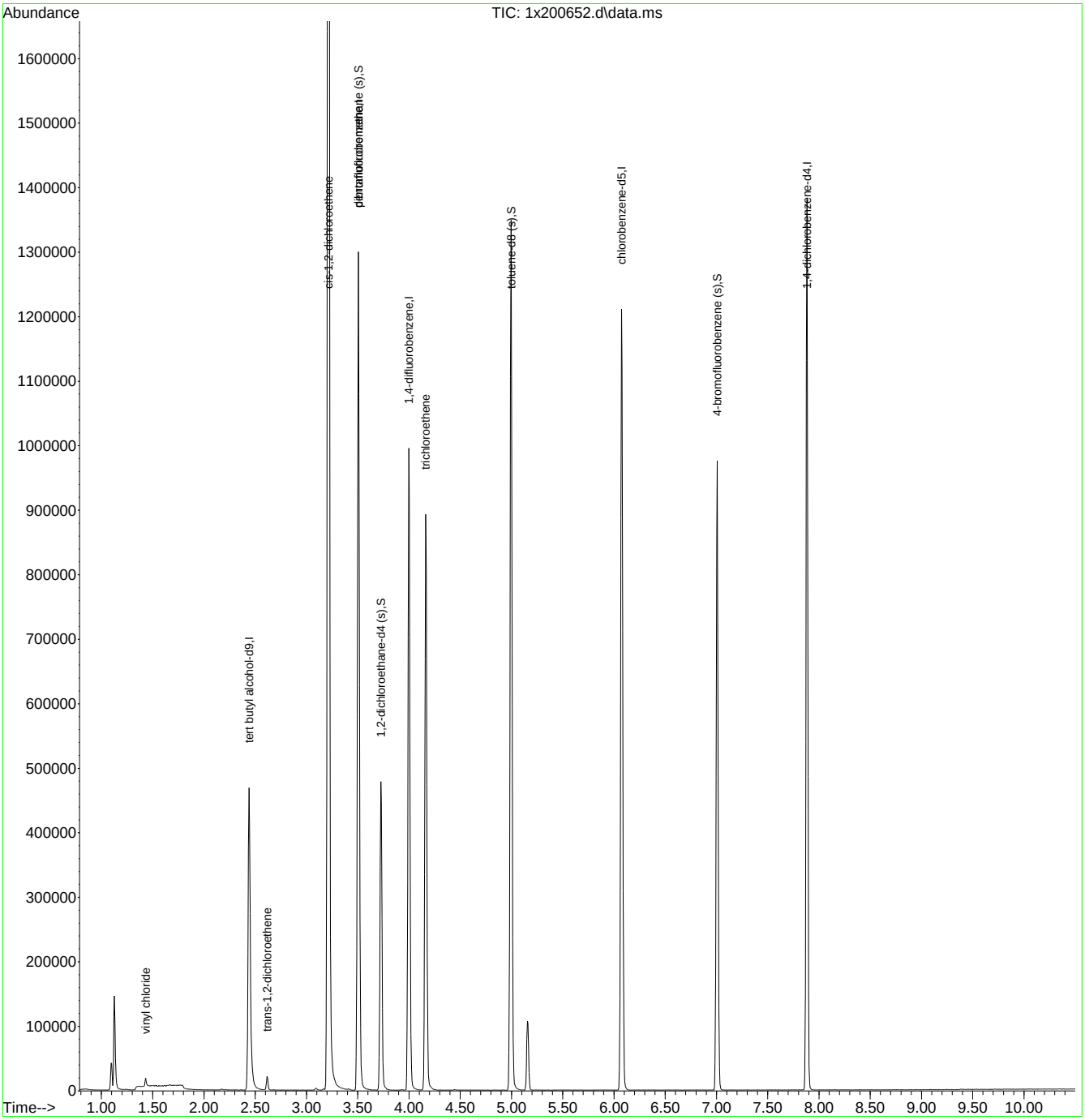
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.439 | 65 | 366647 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.507 | 168 | 425250 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 3.998 | 114 | 588864 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.074 | 117 | 547236 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 271840 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.507 | 113 | 192766 | 48.05 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.10% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.726 | 65 | 222202 | 49.37 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.74% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 644464 | 49.23 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.46% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 237937 | 50.42 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.84% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.431 | 62 | 7421 | 1.98 | ug/L | 98 |
| 26) trans-1,2-dichloroethene | 2.616 | 96 | 4775 | 1.86 | ug/L | 85 |
| 36) cis-1,2-dichloroethene | 3.213 | 96 | 1186072 | 427.54 | ug/L | 90 |
| 61) trichloroethene | 4.163 | 130 | 218231 | 70.94 | ug/L | 97 |

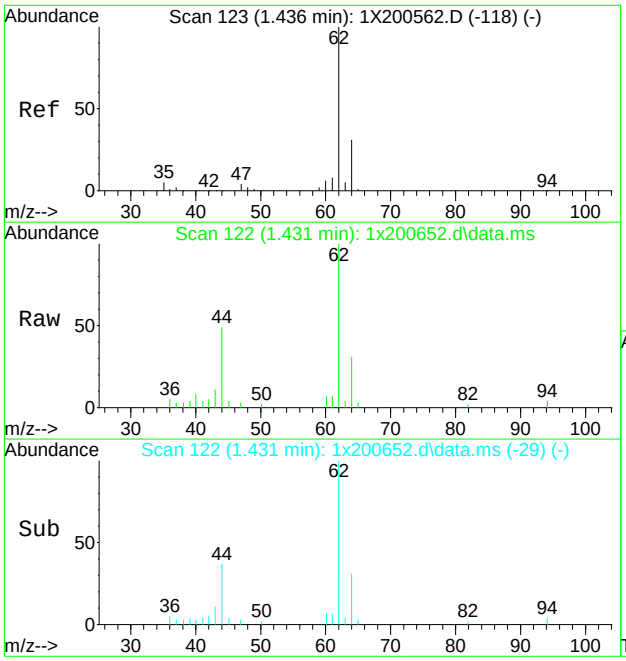
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200652.d
Acq On : 30 Sep 2022 1:17 pm
Operator : taylors
Sample : jd52514-6 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,2
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:47:22 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

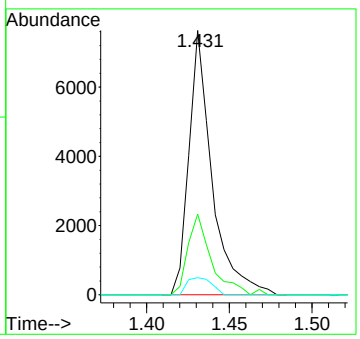


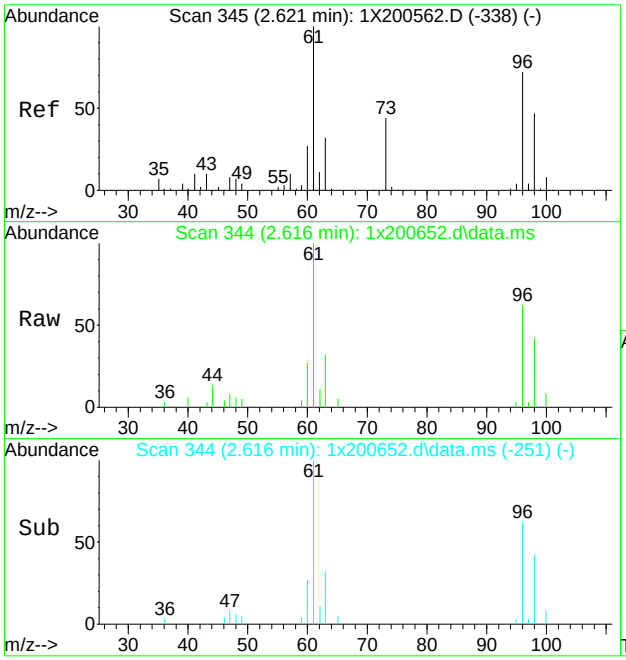



#9
vinyl chloride
Concen: 1.98 ug/L
RT: 1.431 min Scan# 122
Delta R.T. -0.006 min
Lab File: 1x200652.d
Acq: 30 Sep 2022 1:17 pm

Tgt Ion: 62 Resp: 7421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.5 | 1.4 | 61.4 |
| 61 | 6.5 | 0.0 | 38.2 |

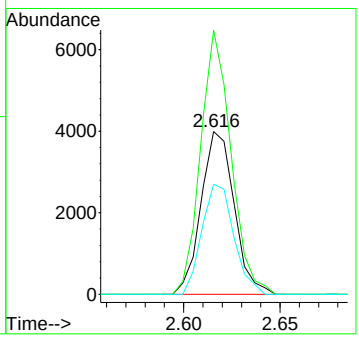


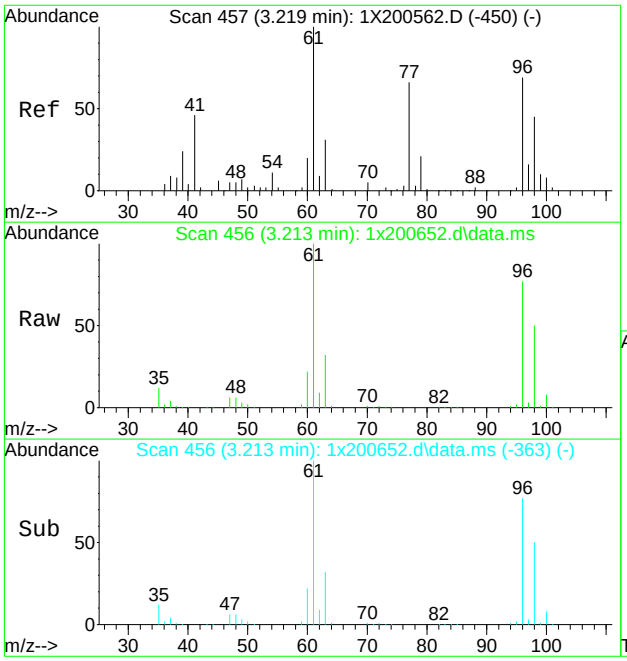




#26
trans-1,2-dichloroethene
Concen: 1.86 ug/L
RT: 2.616 min Scan# 344
Delta R.T. -0.005 min
Lab File: 1x200652.d
Acq: 30 Sep 2022 1:17 pm

Tgt Ion: 96 Resp: 4775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 162.4 | 108.1 | 168.1 |
| 98 | 67.8 | 34.7 | 94.7 |

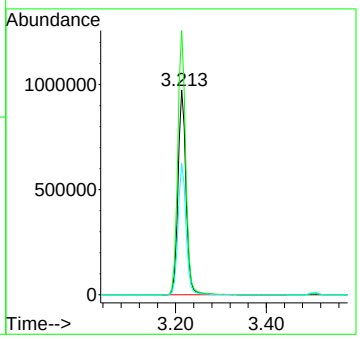


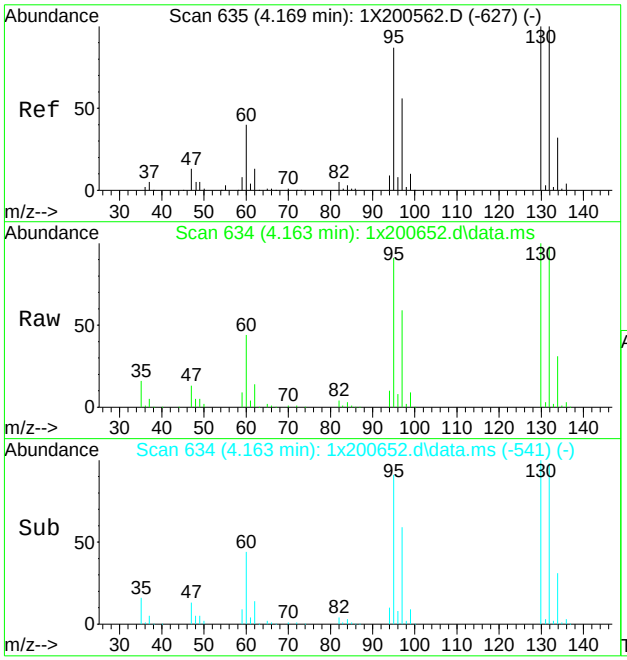



#36
cis-1,2-dichloroethene
Concen: 427.54 ug/L
RT: 3.213 min Scan# 456
Delta R.T. -0.005 min
Lab File: 1x200652.d
Acq: 30 Sep 2022 1:17 pm

Tgt Ion: 96 Resp: 1186072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 129.1 | 115.4 | 175.4 |
| 98 | 64.2 | 36.1 | 96.1 |

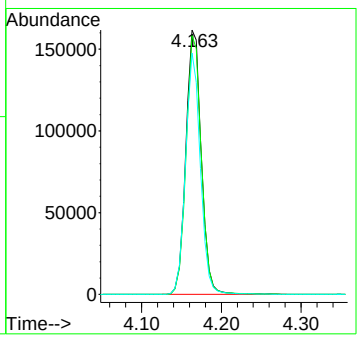



#61
trichloroethene
Concen: 70.94 ug/L
RT: 4.163 min Scan# 634
Delta R.T. -0.005 min
Lab File: 1x200652.d
Acq: 30 Sep 2022 1:17 pm

Tgt Ion:130 Resp: 218231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 97.9 | 69.7 | 129.7 |
| 95 | 91.3 | 57.1 | 117.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121713.d
Acq On : 30 Sep 2022 4:57 am
Operator : taylors
Sample : jd52514-6 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,10
ALS Vial : 44 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 22:12:53 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 8.525 | 65 | 738282 | 500.00 | ug/L | -0.01 |
| 5) pentafluorobenzene | 11.021 | 168 | 812017 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 11.918 | 114 | 1174713 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 14.822 | 117 | 1160468 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.930 | 152 | 517996 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 11.021 | 168 | 812017 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 11.016 | 113 | 407162 | 52.91 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 105.82% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.446 | 65 | 439338 | 48.61 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 97.22% | | | |
| 74) toluene-d8 (s) | 13.459 | 98 | 1395491 | 49.89 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.78% | | | |
| 97) 4-bromofluorobenzene (s) | 15.866 | 95 | 520428 | 49.20 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.40% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 5.280 | 62 | 3757 | 0.44 | ug/L | 93 |
| 25) trans-1,2-dichloroethene | 9.065 | 96 | 3741 | 0.53 | ug/L # | 69 |
| 36) cis-1,2-dichloroethene | 10.439 | 96 | 687373 | 87.99 | ug/L | 97 |
| 60) trichloroethene | 12.253 | 130 | 125674 | 15.41 | ug/L | 99 |

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

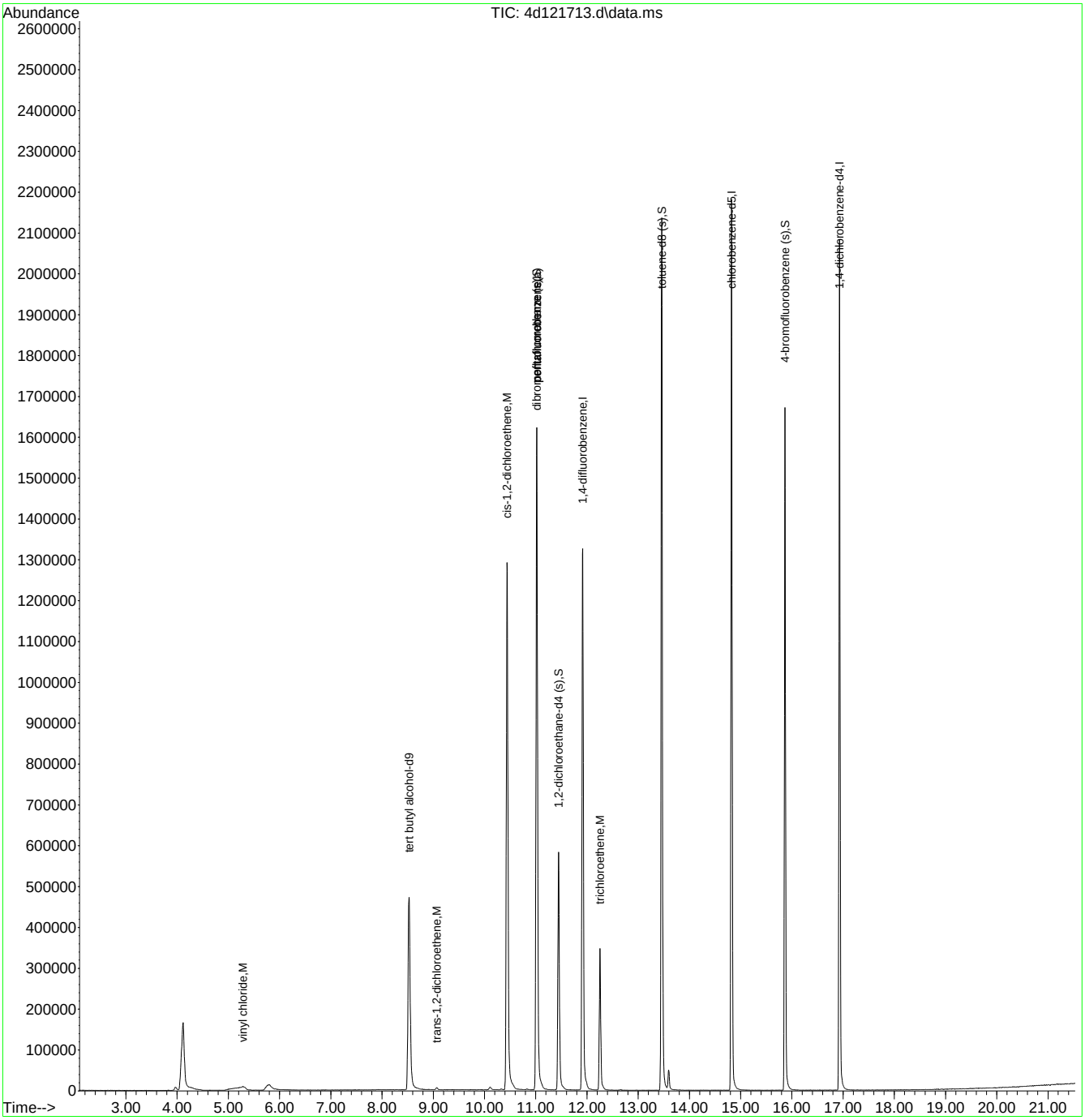
7.1.12

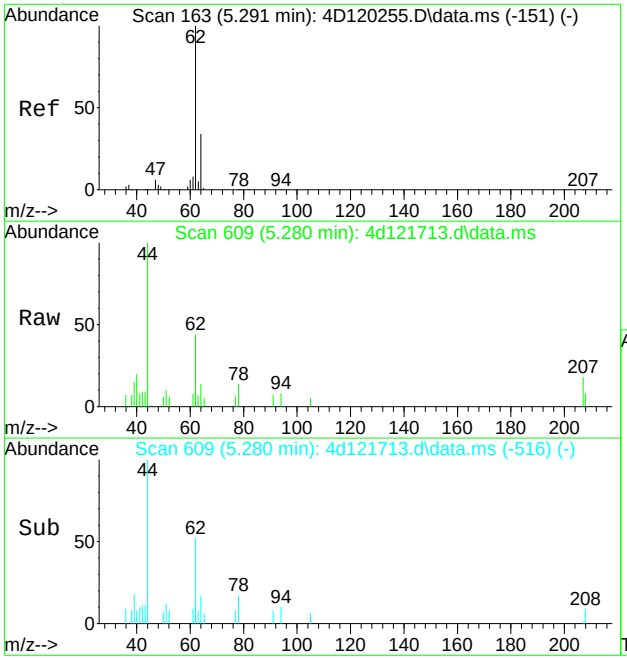
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121713.d
Acq On : 30 Sep 2022 4:57 am
Operator : taylors
Sample : jd52514-6 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,10
ALS Vial : 44 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 22:12:53 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

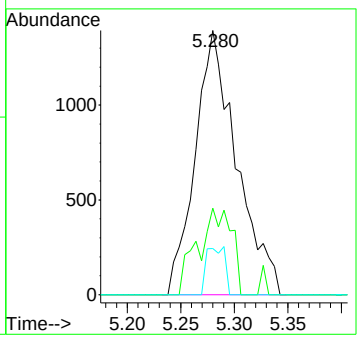


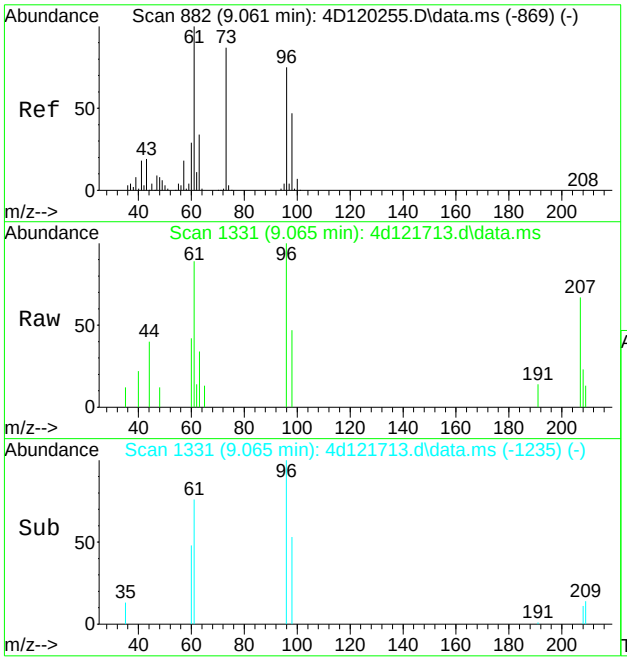



#9
vinyl chloride
Concen: 0.44 ug/L
RT: 5.280 min Scan# 609
Delta R.T. -0.011 min
Lab File: 4d121713.d
Acq: 30 Sep 2022 4:57 am

Tgt Ion: 62 Resp: 3757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.8 | 4.0 | 64.0 |
| 61 | 17.5 | 0.0 | 38.3 |

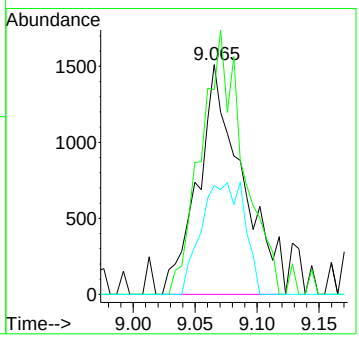


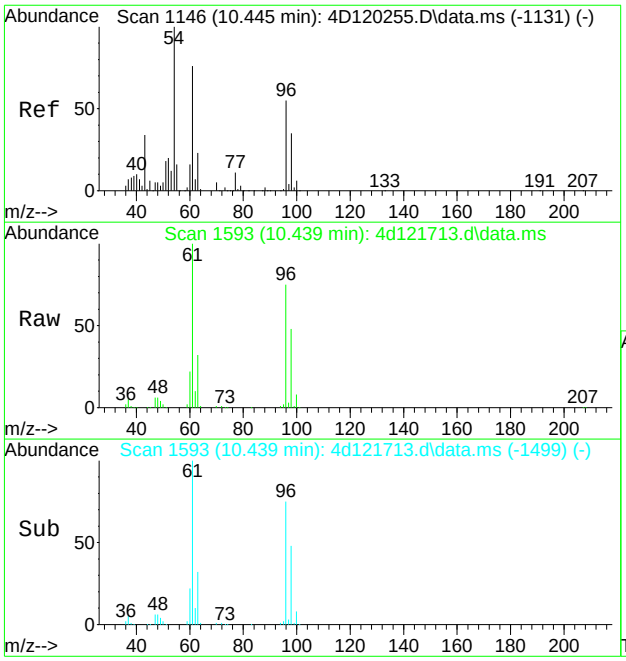




#25
trans-1,2-dichloroethene
Concen: 0.53 ug/L
RT: 9.065 min Scan# 1331
Delta R.T. 0.004 min
Lab File: 4d121713.d
Acq: 30 Sep 2022 4:57 am

Tgt Ion: 96 Resp: 3741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 89.0 | 103.0 | 163.0# |
| 98 | 47.3 | 32.0 | 92.0 |

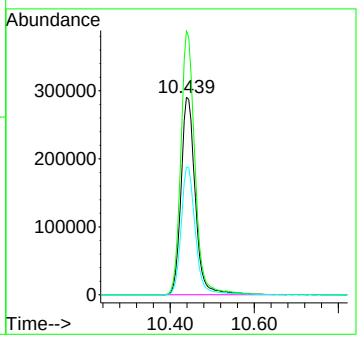


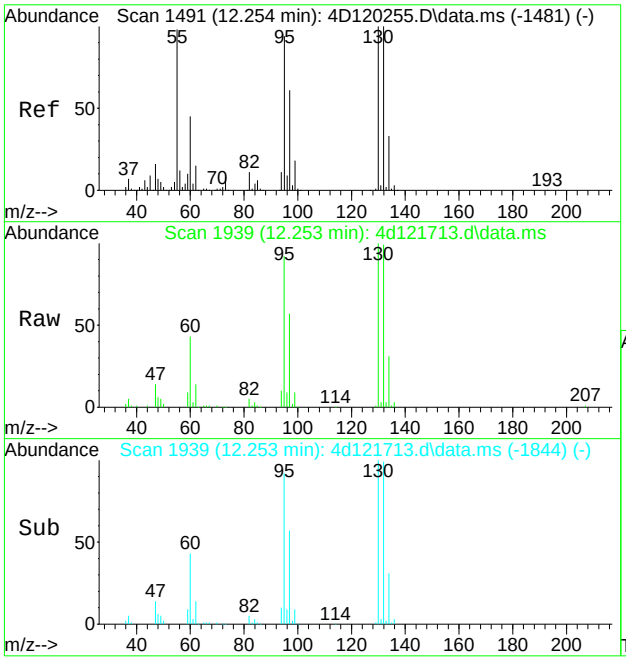



#36
cis-1,2-dichloroethene
Concen: 87.99 ug/L
RT: 10.439 min Scan# 1593
Delta R.T. -0.006 min
Lab File: 4d121713.d
Acq: 30 Sep 2022 4:57 am

Tgt Ion: 96 Resp: 687373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 133.7 | 107.6 | 167.6 |
| 98 | 64.7 | 33.7 | 93.7 |

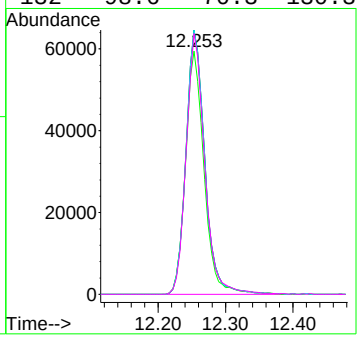



#60
trichloroethene
Concen: 15.41 ug/L
RT: 12.253 min Scan# 1939
Delta R.T. -0.001 min
Lab File: 4d121713.d
Acq: 30 Sep 2022 4:57 am

Tgt Ion:130 Resp: 125674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 92.0 | 64.3 | 124.3 |
| 130 | 100.0 | 70.0 | 130.0 |
| 132 | 98.6 | 70.3 | 130.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200654.d
Acq On : 30 Sep 2022 2:03 pm
Operator : taylors
Sample : jd52514-7 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,5
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:49:57 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

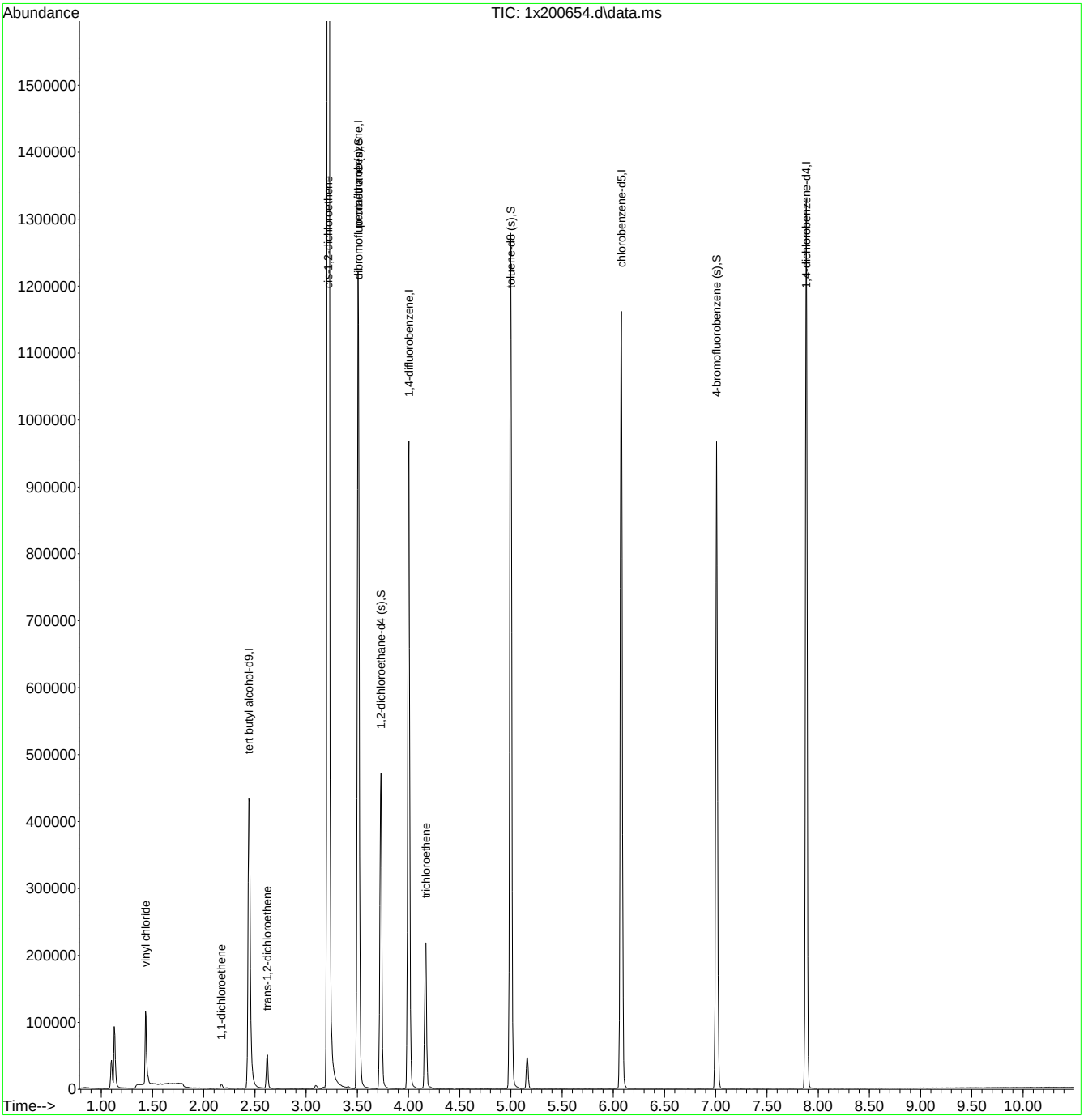
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.440 | 65 | 347892 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.507 | 168 | 407821 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.003 | 114 | 574778 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.079 | 117 | 531783 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 264845 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.512 | 113 | 186958 | 48.60 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.20% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.731 | 65 | 215614 | 49.08 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.16% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 629377 | 49.48 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.96% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 228697 | 49.74 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.48% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.431 | 62 | 70124 | 19.49 | ug/L | 99 |
| 16) 1,1-dichloroethene | 2.173 | 96 | 1650 | 0.72 | ug/L | 96 |
| 26) trans-1,2-dichloroethene | 2.621 | 96 | 12053 | 4.89 | ug/L | 98 |
| 36) cis-1,2-dichloroethene | 3.213 | 96 | 1593574 | 598.98 | ug/L | 91 |
| 61) trichloroethene | 4.169 | 130 | 55412 | 18.45 | ug/L | 96 |

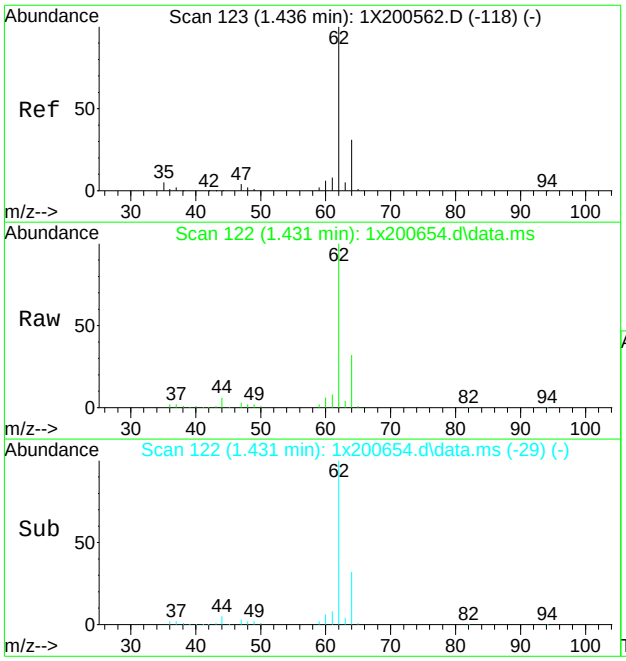
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200654.d
Acq On : 30 Sep 2022 2:03 pm
Operator : taylors
Sample : jd52514-7 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,5
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:49:57 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

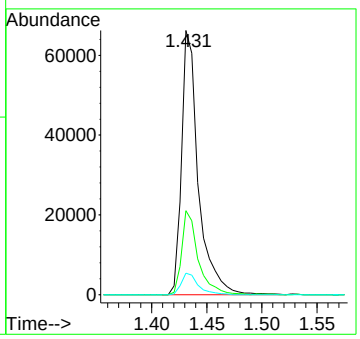


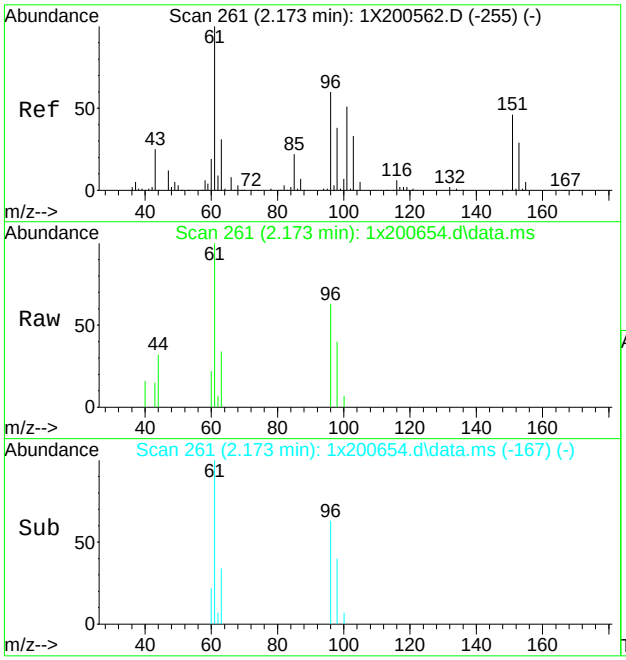



#9
vinyl chloride
Concen: 19.49 ug/L
RT: 1.431 min Scan# 122
Delta R.T. -0.005 min
Lab File: 1x200654.d
Acq: 30 Sep 2022 2:03 pm

Tgt Ion: 62 Resp: 70124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 1.4 | 61.4 |
| 61 | 8.2 | 0.0 | 38.2 |

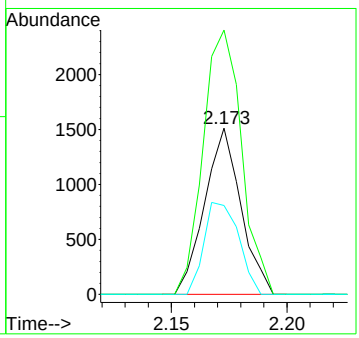


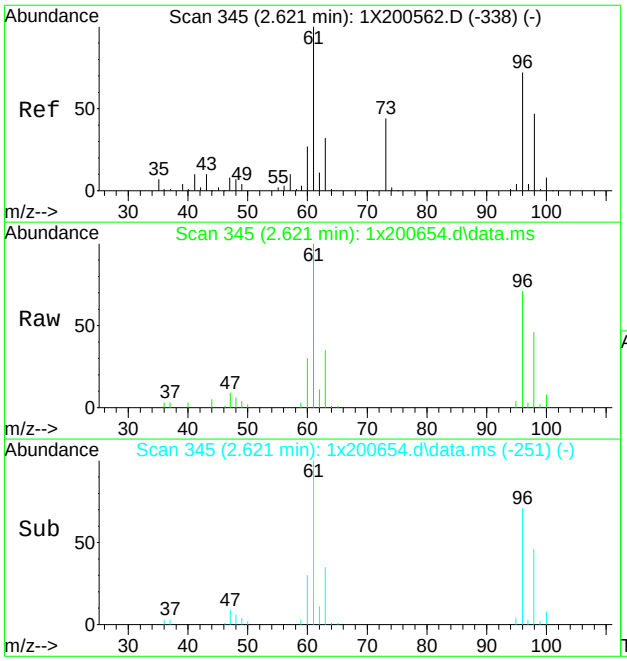




#16
1,1-dichloroethene
Concen: 0.72 ug/L
RT: 2.173 min Scan# 261
Delta R.T. -0.000 min
Lab File: 1x200654.d
Acq: 30 Sep 2022 2:03 pm

Tgt Ion: 96 Resp: 1650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 159.0 | 135.9 | 195.9 |
| 63 | 53.5 | 21.9 | 81.9 |

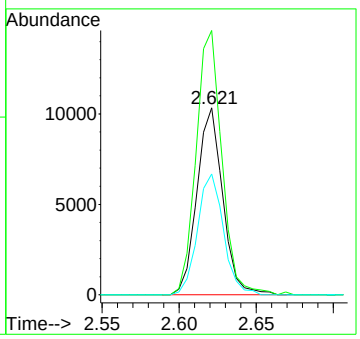


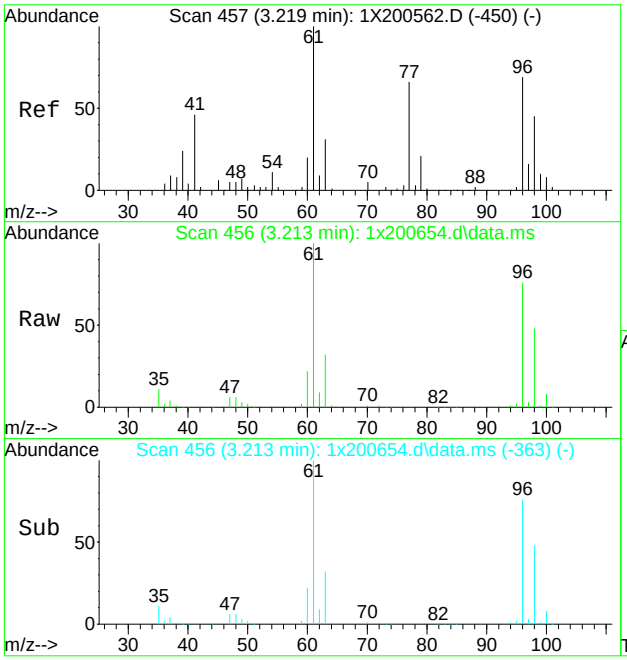



#26
trans-1,2-dichloroethene
Concen: 4.89 ug/L
RT: 2.621 min Scan# 345
Delta R.T. 0.000 min
Lab File: 1x200654.d
Acq: 30 Sep 2022 2:03 pm

Tgt Ion: 96 Resp: 12053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.4 | 108.1 | 168.1 |
| 98 | 64.7 | 34.7 | 94.7 |

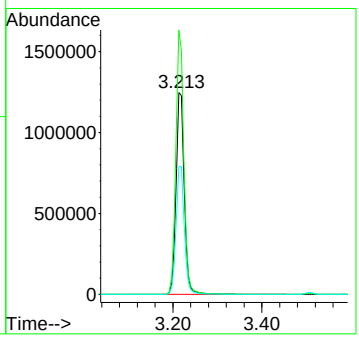


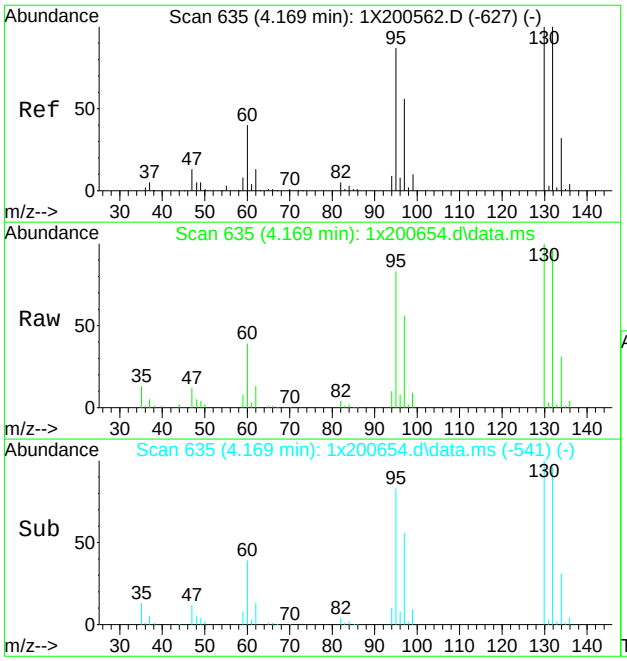




#36
cis-1,2-dichloroethene
Concen: 598.98 ug/L
RT: 3.213 min Scan# 456
Delta R.T. -0.005 min
Lab File: 1x200654.d
Acq: 30 Sep 2022 2:03 pm

Tgt Ion: 96 Resp: 1593574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.1 | 115.4 | 175.4 |
| 98 | 63.3 | 36.1 | 96.1 |

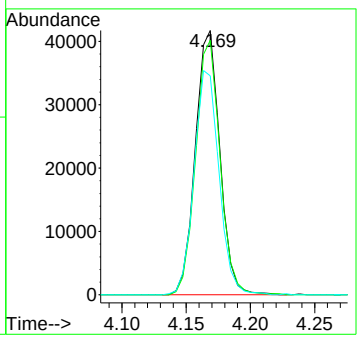





#61
trichloroethene
Concen: 18.45 ug/L
RT: 4.169 min Scan# 635
Delta R.T. 0.001 min
Lab File: 1x200654.d
Acq: 30 Sep 2022 2:03 pm

Tgt Ion:130 Resp: 55412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 96.2 | 69.7 | 129.7 |
| 95 | 82.7 | 57.1 | 117.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200661.d
Acq On : 30 Sep 2022 4:46 pm
Operator : taylors
Sample : jd52514-7 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,50
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 07:02:28 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

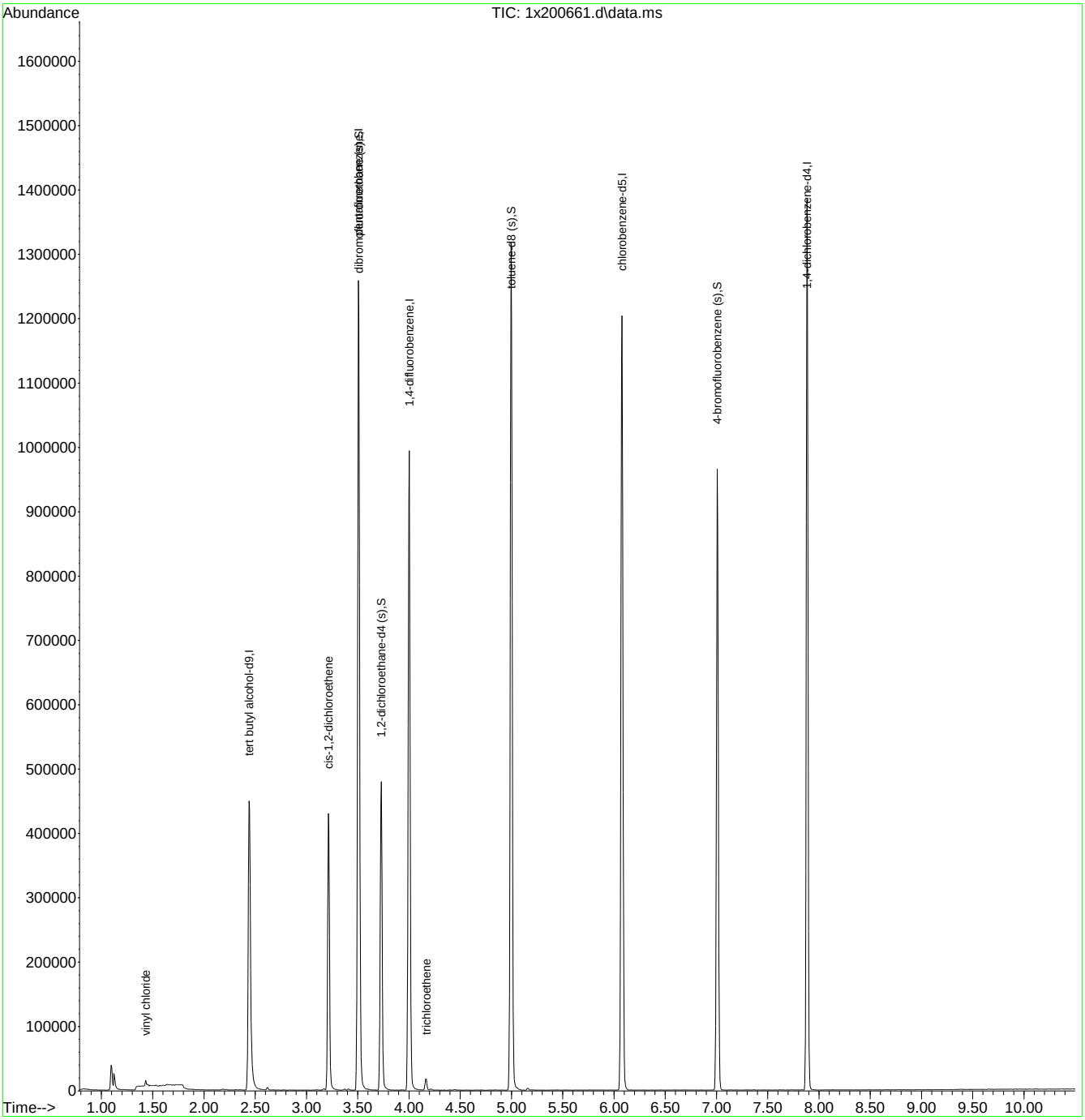
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.440 | 65 | 363882 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.507 | 168 | 423514 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.003 | 114 | 593851 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.079 | 117 | 544567 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 272759 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.512 | 113 | 191628 | 47.97 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.94% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.731 | 65 | 220982 | 48.68 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 97.36% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 651113 | 49.99 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.98% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 236560 | 49.95 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.90% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.431 | 62 | 4812 | 1.29 | ug/L | 96 |
| 36) cis-1,2-dichloroethene | 3.213 | 96 | 123054 | 44.54 | ug/L | 93 |
| 61) trichloroethene | 4.169 | 130 | 4569 | 1.47 | ug/L | 97 |

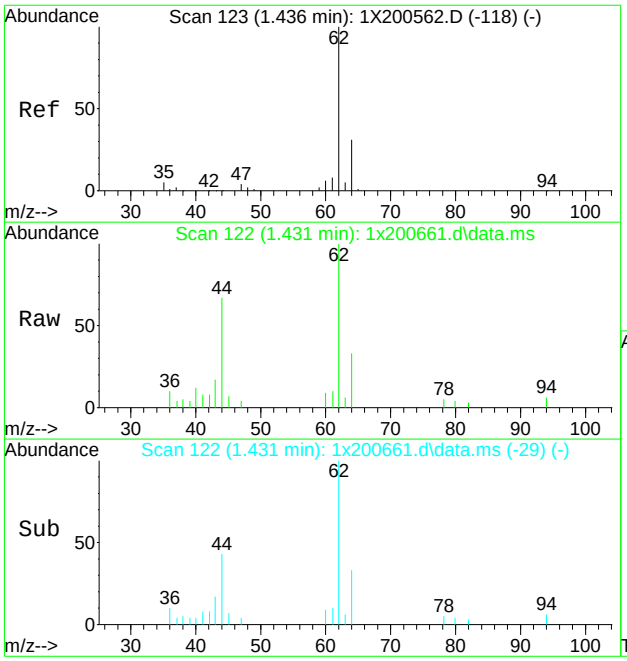
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200661.d
Acq On : 30 Sep 2022 4:46 pm
Operator : taylors
Sample : jd52514-7 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,50
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 07:02:28 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

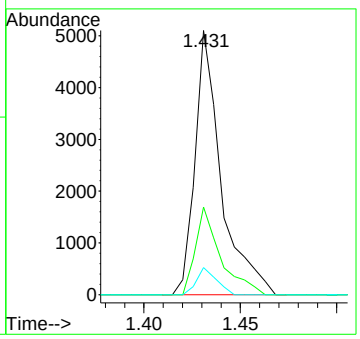


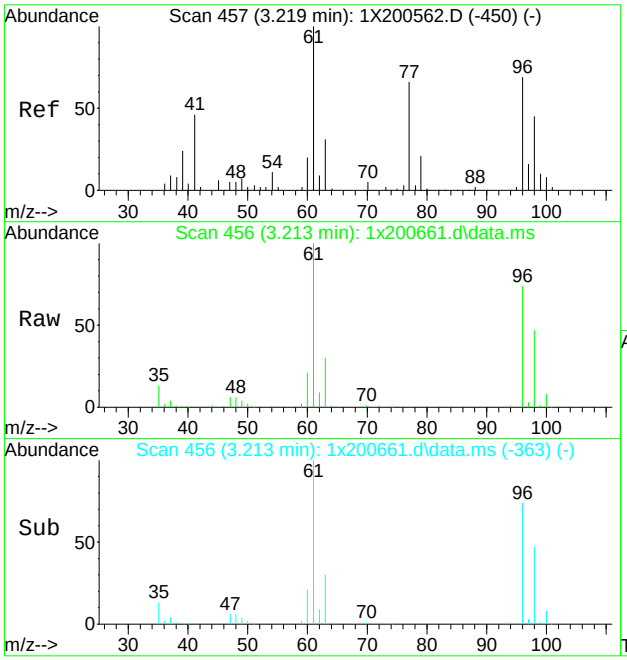



#9
vinyl chloride
Concen: 1.29 ug/L
RT: 1.431 min Scan# 122
Delta R.T. -0.005 min
Lab File: 1x200661.d
Acq: 30 Sep 2022 4:46 pm

Tgt Ion: 62 Resp: 4812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.2 | 1.4 | 61.4 |
| 61 | 10.3 | 0.0 | 38.2 |

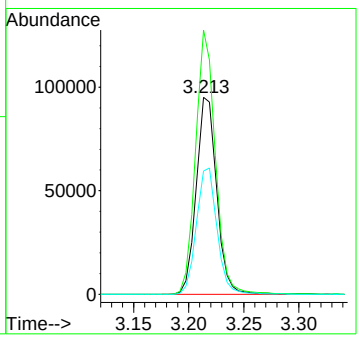


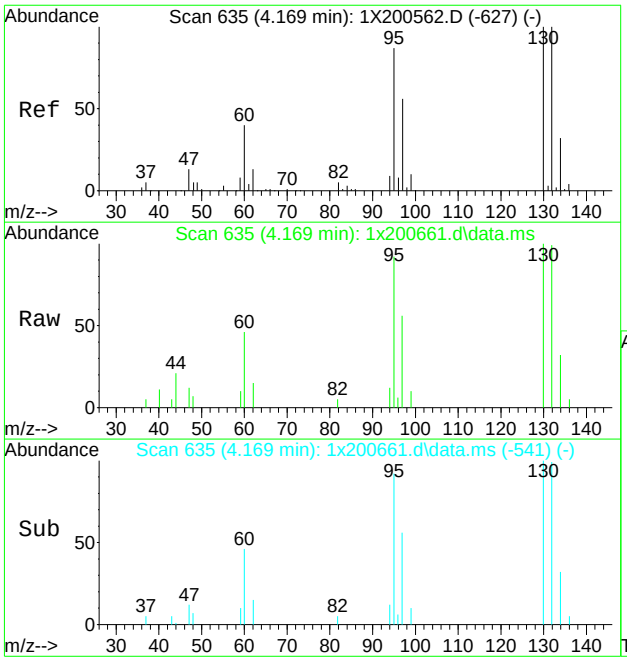




#36
cis-1,2-dichloroethene
Concen: 44.54 ug/L
RT: 3.213 min Scan# 456
Delta R.T. -0.005 min
Lab File: 1x200661.d
Acq: 30 Sep 2022 4:46 pm

Tgt Ion: 96 Resp: 123054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 134.3 | 115.4 | 175.4 |
| 98 | 62.7 | 36.1 | 96.1 |

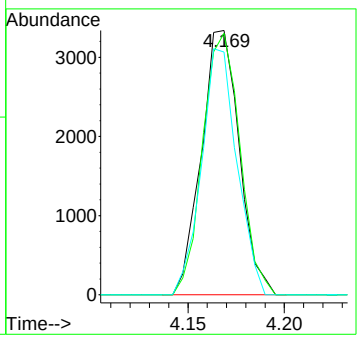





#61
trichloroethene
Concen: 1.47 ug/L
RT: 4.169 min Scan# 635
Delta R.T. 0.001 min
Lab File: 1x200661.d
Acq: 30 Sep 2022 4:46 pm

Tgt Ion:130 Resp: 4569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 98.9 | 69.7 | 129.7 |
| 95 | 91.7 | 57.1 | 117.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200648.d
Acq On : 30 Sep 2022 11:44 am
Operator : taylors
Sample : jd52514-8 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,100
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:43:12 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

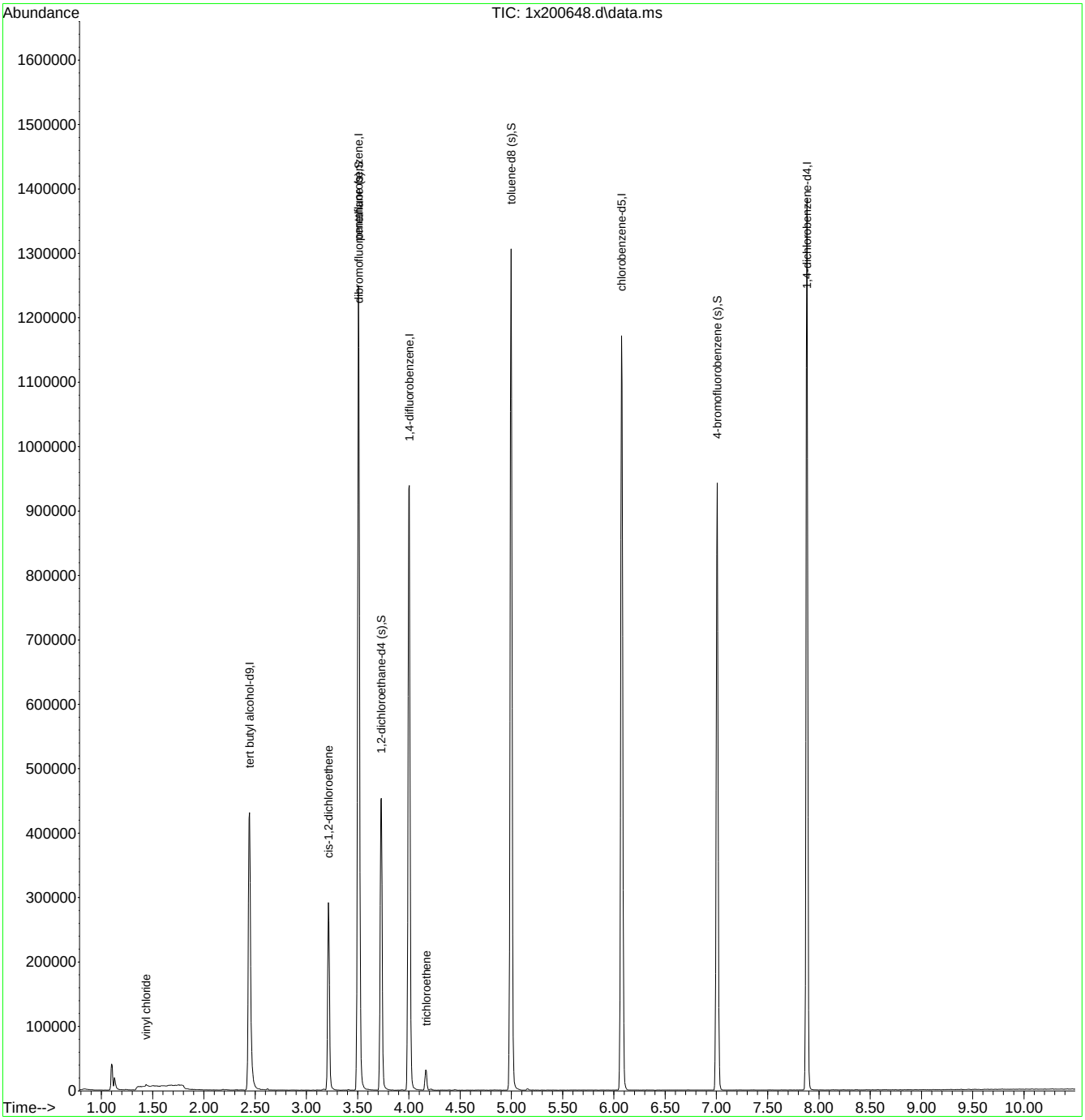
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.445 | 65 | 345361 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.507 | 168 | 412691 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.003 | 114 | 578282 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.074 | 117 | 532518 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 263371 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.512 | 113 | 186244 | 47.84 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.68% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.731 | 65 | 217500 | 49.21 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.42% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 634082 | 49.78 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.56% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 230794 | 50.47 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.94% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.436 | 62 | 1612 | 0.44 | ug/L | 88 |
| 36) cis-1,2-dichloroethene | 3.213 | 96 | 82888 | 30.79 | ug/L | 91 |
| 61) trichloroethene | 4.169 | 130 | 7781 | 2.58 | ug/L | 96 |

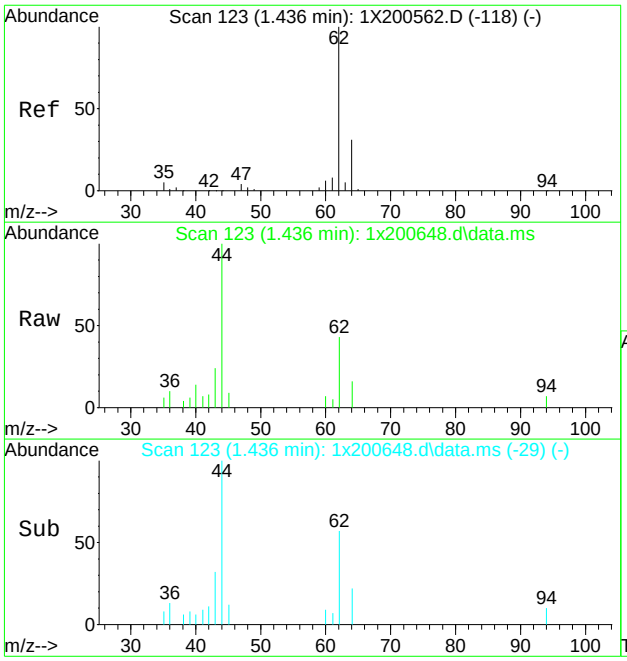
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200648.d
Acq On : 30 Sep 2022 11:44 am
Operator : taylors
Sample : jd52514-8 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,100
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:43:12 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

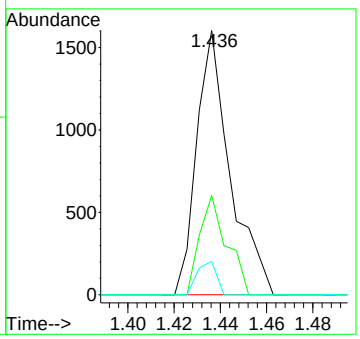


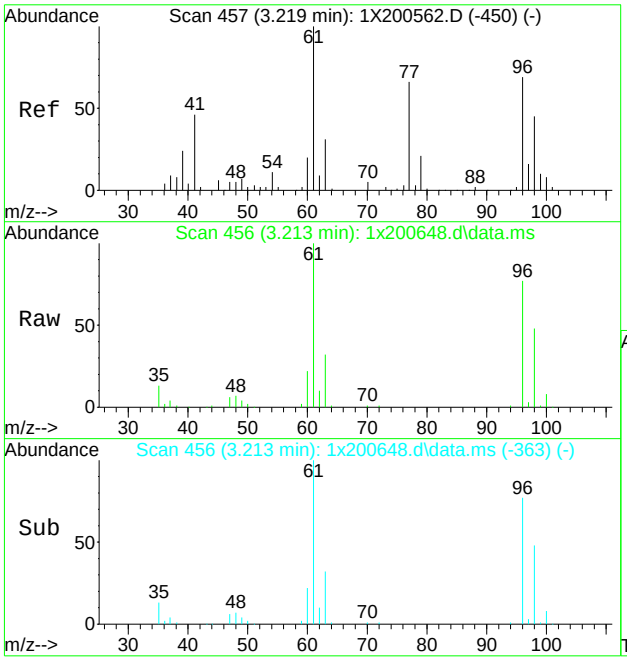



#9
vinyl chloride
Concen: 0.44 ug/L
RT: 1.436 min Scan# 123
Delta R.T. -0.000 min
Lab File: 1x200648.d
Acq: 30 Sep 2022 11:44 am

Tgt Ion: 62 Resp: 1612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 37.7 | 1.4 | 61.4 |
| 61 | 12.7 | 0.0 | 38.2 |

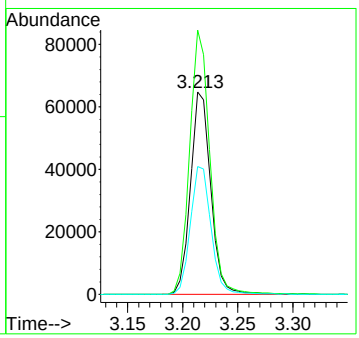


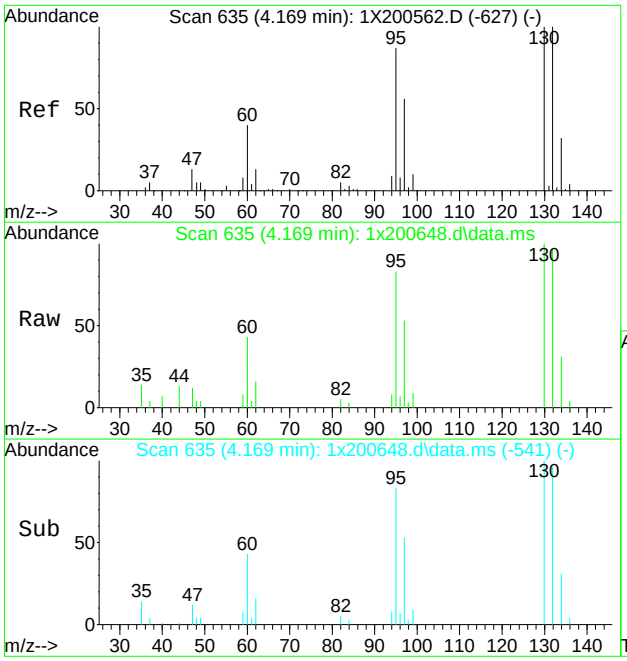




#36
cis-1,2-dichloroethene
Concen: 30.79 ug/L
RT: 3.213 min Scan# 456
Delta R.T. -0.005 min
Lab File: 1x200648.d
Acq: 30 Sep 2022 11:44 am

Tgt Ion: 96 Resp: 82888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 130.6 | 115.4 | 175.4 |
| 98 | 63.2 | 36.1 | 96.1 |

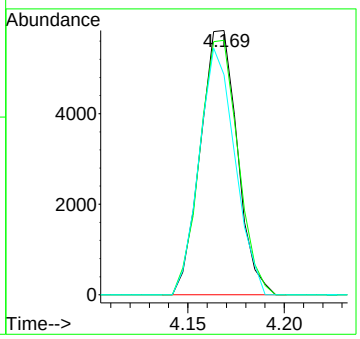





#61
trichloroethene
Concen: 2.58 ug/L
RT: 4.169 min Scan# 635
Delta R.T. 0.001 min
Lab File: 1x200648.d
Acq: 30 Sep 2022 11:44 am

Tgt Ion:130 Resp: 7781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 96.3 | 69.7 | 129.7 |
| 95 | 83.2 | 57.1 | 117.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200649.d
Acq On : 30 Sep 2022 12:08 pm
Operator : taylors
Sample : jd52514-8 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,10
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:44:20 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

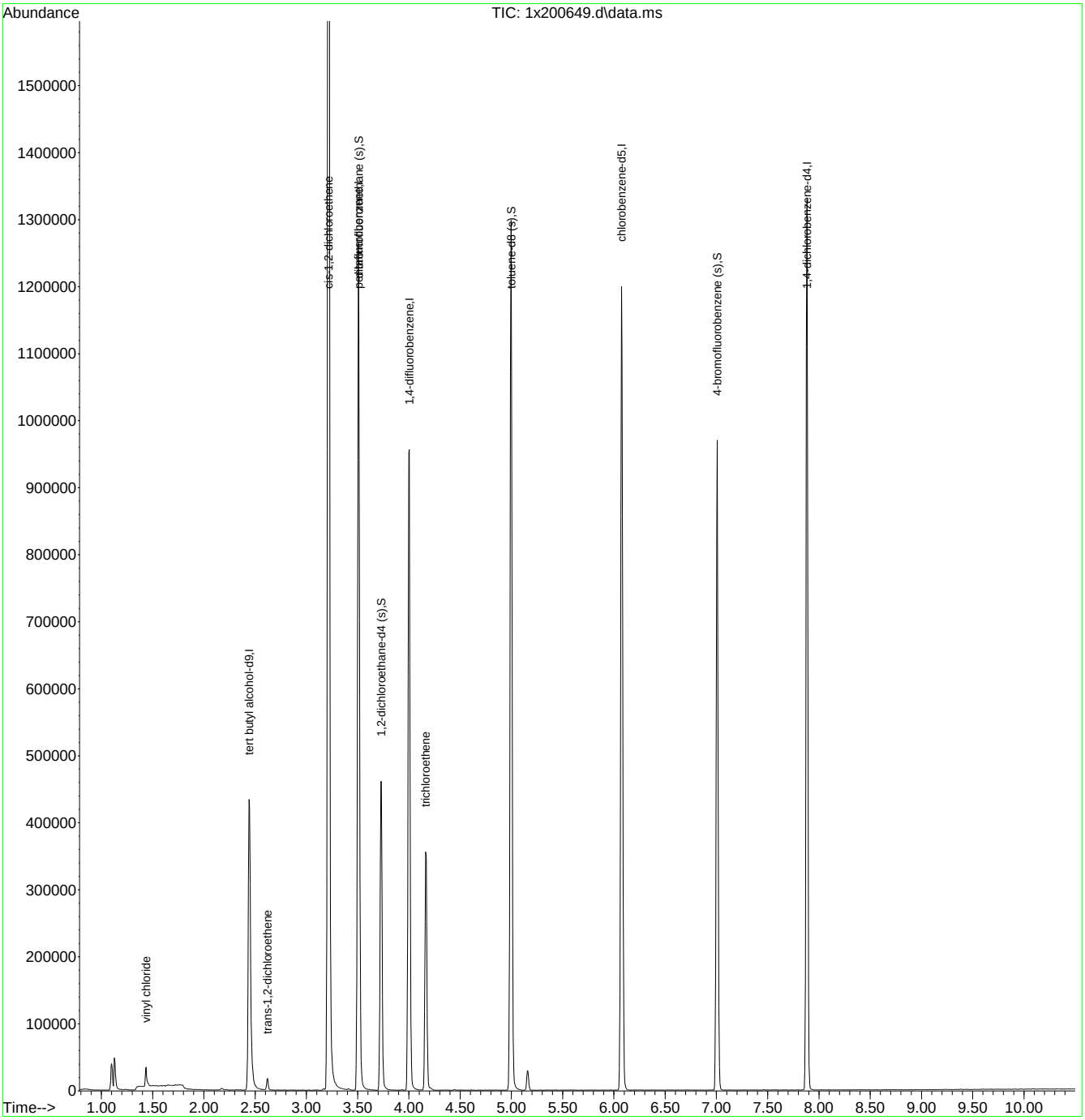
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.440 | 65 | 355045 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.507 | 168 | 418332 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.003 | 114 | 580672 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.074 | 117 | 534712 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 266411 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.512 | 113 | 188505 | 47.77 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.54% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.731 | 65 | 217220 | 48.94 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 97.88% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 638710 | 49.94 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.88% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 234448 | 50.69 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.38% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.436 | 62 | 17890 | 4.85 | ug/L | 98 |
| 26) trans-1,2-dichloroethene | 2.621 | 96 | 3997 | 1.58 | ug/L | 93 |
| 36) cis-1,2-dichloroethene | 3.213 | 96 | 924337 | 338.70 | ug/L | 91 |
| 61) trichloroethene | 4.163 | 130 | 89928 | 29.65 | ug/L | 97 |

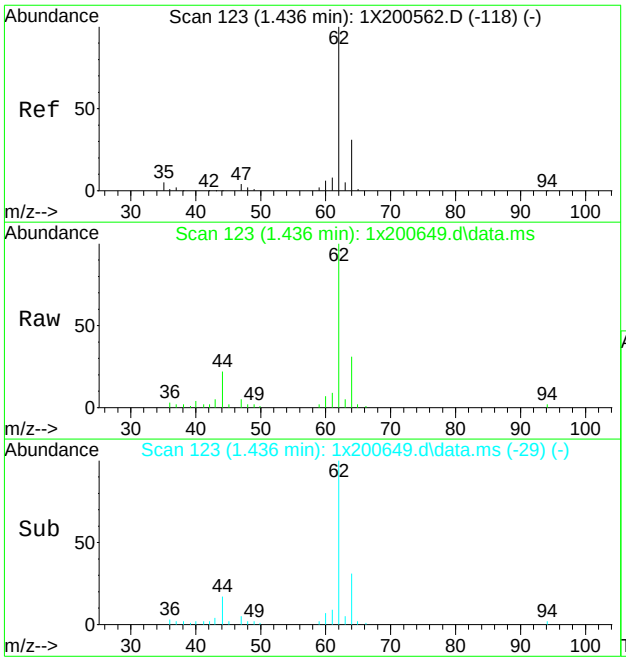
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200649.d
Acq On : 30 Sep 2022 12:08 pm
Operator : taylors
Sample : jd52514-8 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,10
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:44:20 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

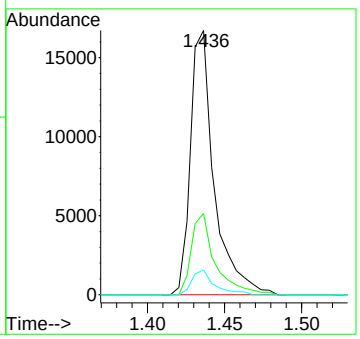


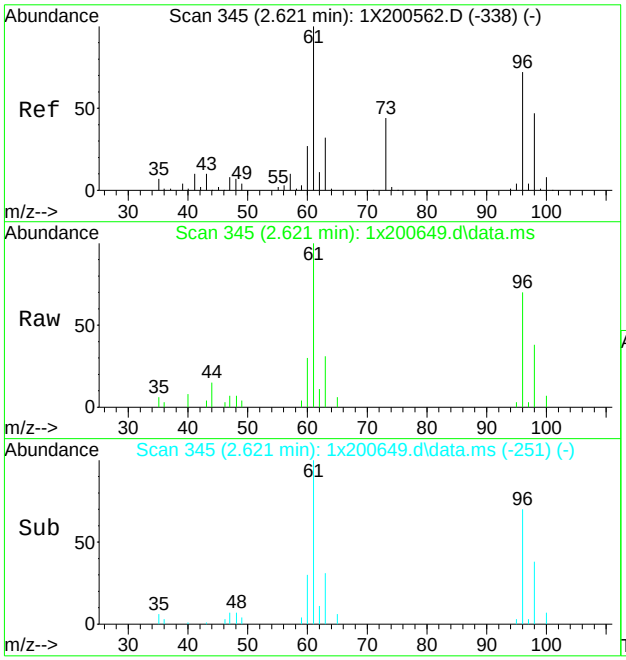



#9
vinyl chloride
Concen: 4.85 ug/L
RT: 1.436 min Scan# 123
Delta R.T. -0.000 min
Lab File: 1x200649.d
Acq: 30 Sep 2022 12:08 pm

Tgt Ion: 62 Resp: 17890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.8 | 1.4 | 61.4 |
| 61 | 9.4 | 0.0 | 38.2 |

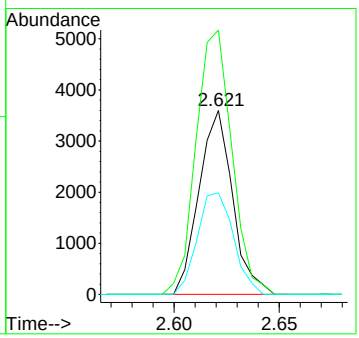


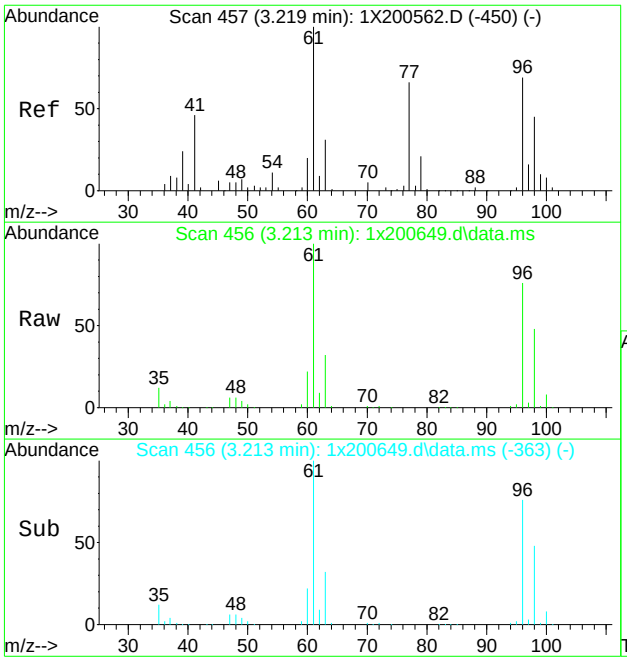




#26
trans-1,2-dichloroethene
Concen: 1.58 ug/L
RT: 2.621 min Scan# 345
Delta R.T. 0.000 min
Lab File: 1x200649.d
Acq: 30 Sep 2022 12:08 pm

Tgt Ion: 96 Resp: 3997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 143.9 | 108.1 | 168.1 |
| 98 | 55.2 | 34.7 | 94.7 |

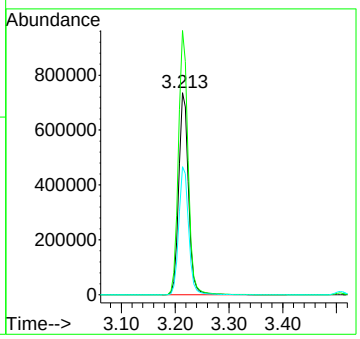


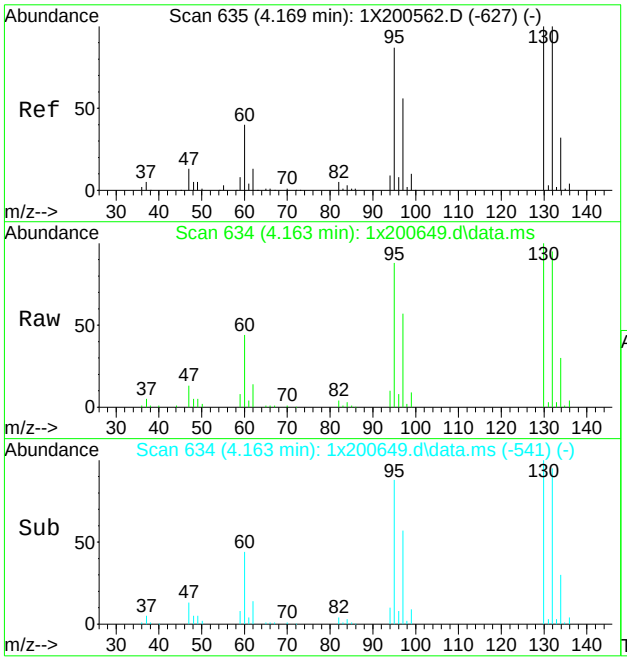



#36
cis-1,2-dichloroethene
Concen: 338.70 ug/L
RT: 3.213 min Scan# 456
Delta R.T. -0.005 min
Lab File: 1x200649.d
Acq: 30 Sep 2022 12:08 pm

Tgt Ion: 96 Resp: 924337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 130.9 | 115.4 | 175.4 |
| 98 | 63.4 | 36.1 | 96.1 |

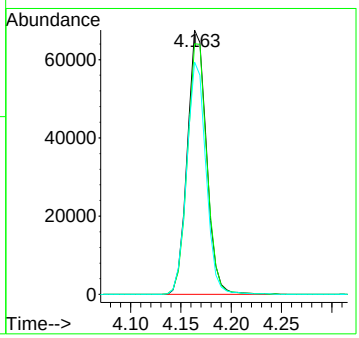



#61
trichloroethene
Concen: 29.65 ug/L
RT: 4.163 min Scan# 634
Delta R.T. -0.005 min
Lab File: 1x200649.d
Acq: 30 Sep 2022 12:08 pm

Tgt Ion:130 Resp: 89928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 94.7 | 69.7 | 129.7 |
| 95 | 87.9 | 57.1 | 117.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200651.d
Acq On : 30 Sep 2022 12:54 pm
Operator : taylors
Sample : jd52514-9 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,5
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:46:26 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

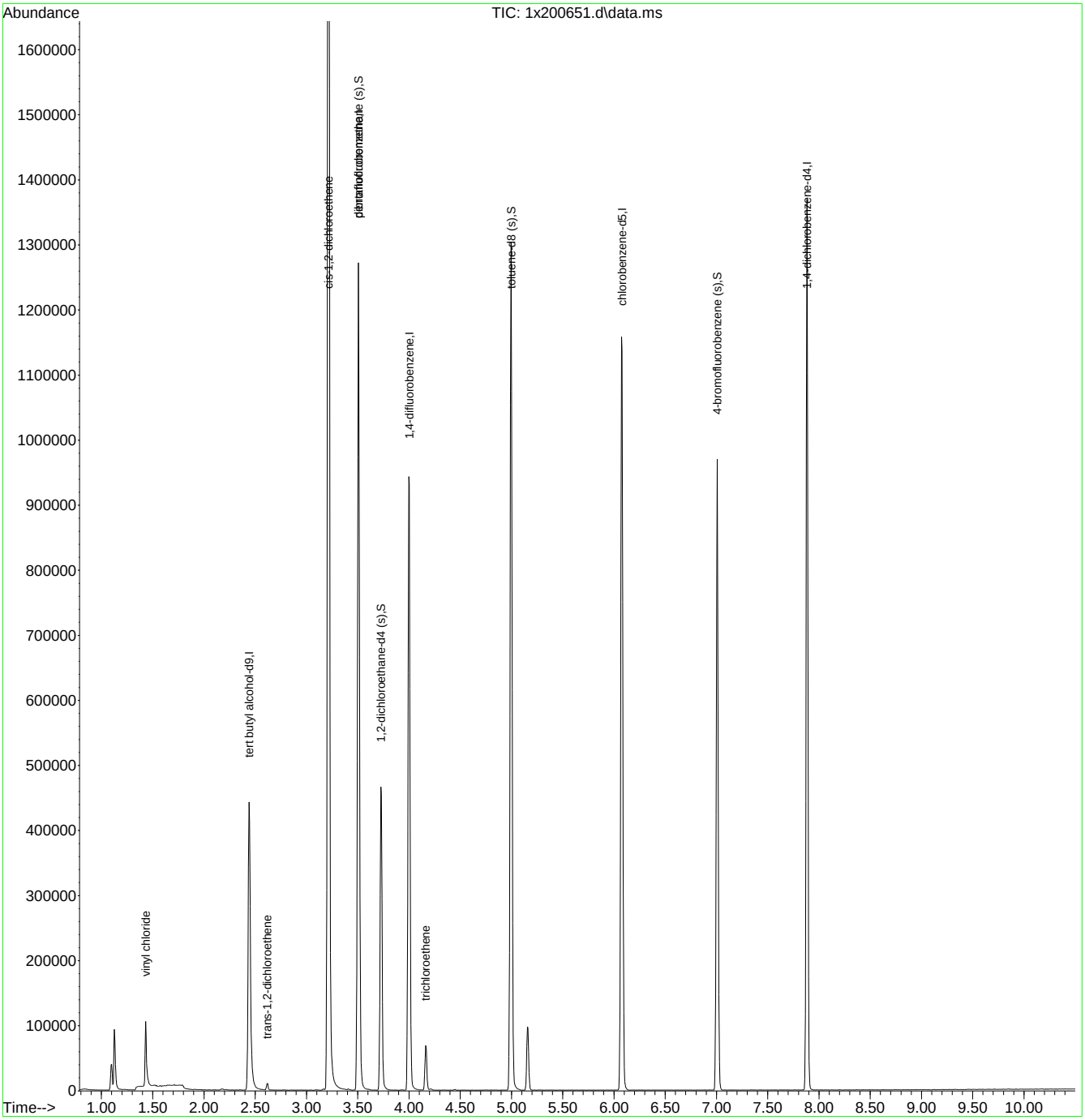
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.439 | 65 | 351570 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.507 | 168 | 413611 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.003 | 114 | 579356 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.079 | 117 | 535521 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 265380 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.507 | 113 | 187957 | 48.17 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.34% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.726 | 65 | 215997 | 48.78 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 97.56% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 637041 | 49.73 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.46% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 231520 | 50.25 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.50% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.431 | 62 | 62185 | 17.04 | ug/L | 99 |
| 26) trans-1,2-dichloroethene | 2.616 | 96 | 2477 | 0.99 | ug/L | 96 |
| 36) cis-1,2-dichloroethene | 3.213 | 96 | 910563 | 337.46 | ug/L | 91 |
| 61) trichloroethene | 4.163 | 130 | 17050 | 5.63 | ug/L | 97 |

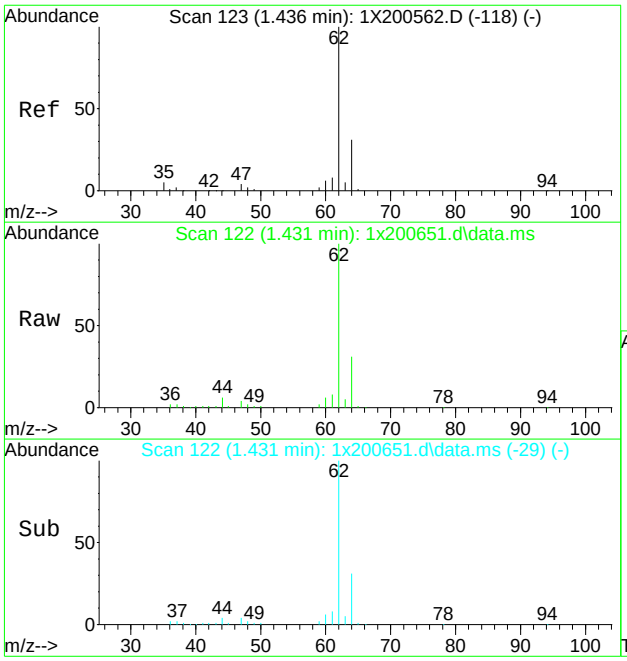
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200651.d
Acq On : 30 Sep 2022 12:54 pm
Operator : taylors
Sample : jd52514-9 Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,5
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:46:26 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

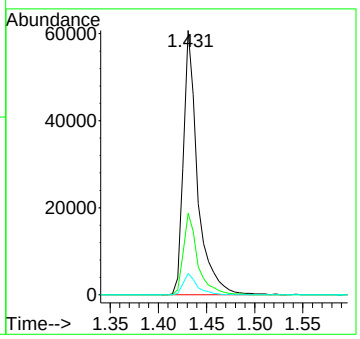


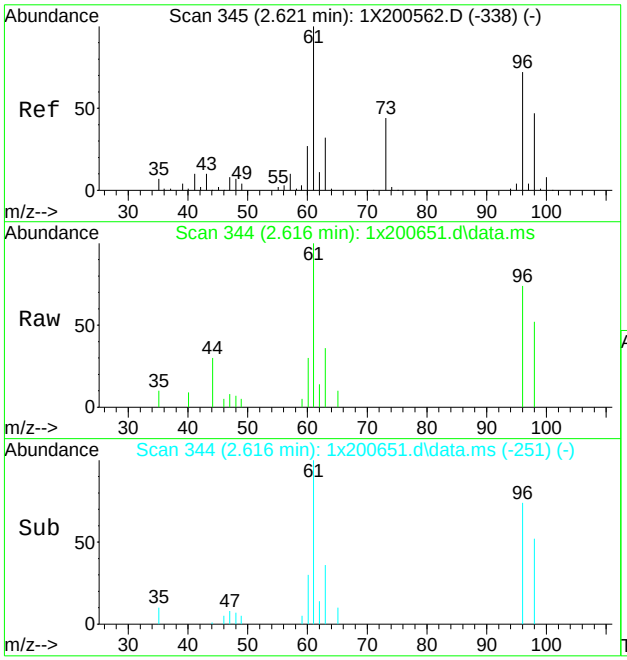



#9
vinyl chloride
Concen: 17.04 ug/L
RT: 1.431 min Scan# 122
Delta R.T. -0.005 min
Lab File: 1x200651.d
Acq: 30 Sep 2022 12:54 pm

Tgt Ion: 62 Resp: 62185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.9 | 1.4 | 61.4 |
| 61 | 8.0 | 0.0 | 38.2 |

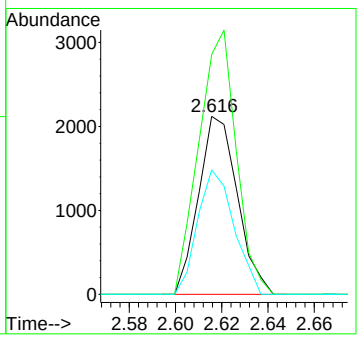


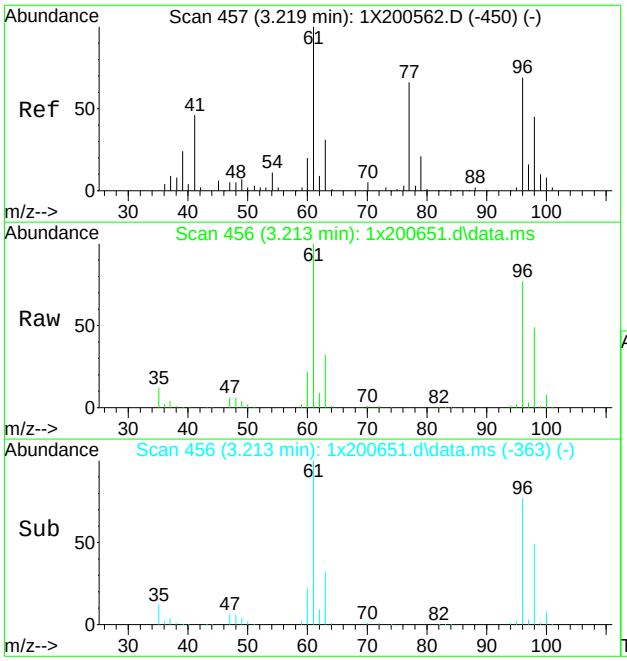




#26
trans-1,2-dichloroethene
Concen: 0.99 ug/L
RT: 2.616 min Scan# 344
Delta R.T. -0.005 min
Lab File: 1x200651.d
Acq: 30 Sep 2022 12:54 pm

Tgt Ion: 96 Resp: 2477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 134.9 | 108.1 | 168.1 |
| 98 | 70.0 | 34.7 | 94.7 |

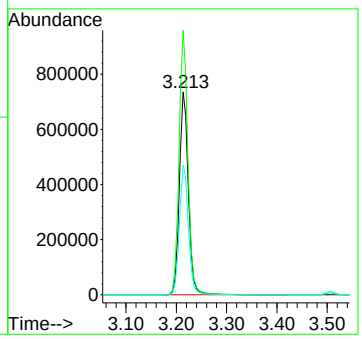


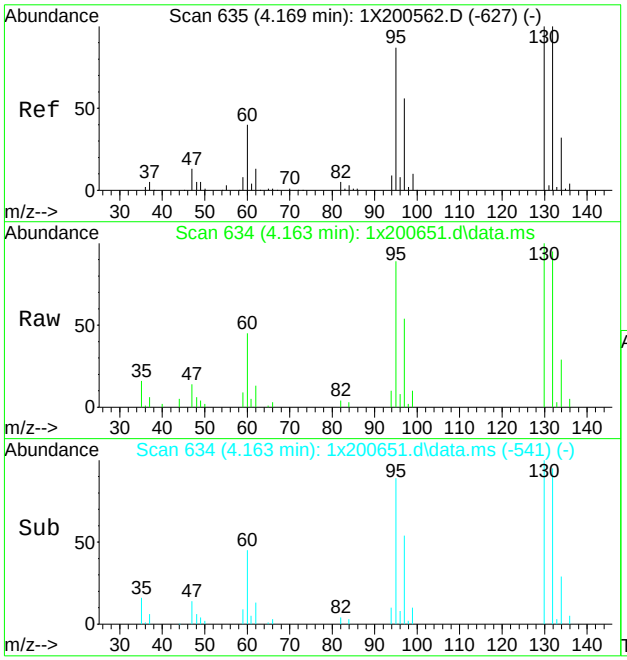



#36
cis-1,2-dichloroethene
Concen: 337.46 ug/L
RT: 3.213 min Scan# 456
Delta R.T. -0.005 min
Lab File: 1x200651.d
Acq: 30 Sep 2022 12:54 pm

Tgt Ion: 96 Resp: 910563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 130.3 | 115.4 | 175.4 |
| 98 | 64.0 | 36.1 | 96.1 |

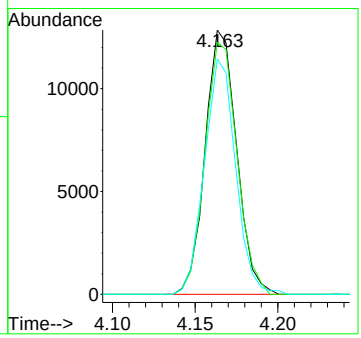



#61
trichloroethene
Concen: 5.63 ug/L
RT: 4.163 min Scan# 634
Delta R.T. -0.005 min
Lab File: 1x200651.d
Acq: 30 Sep 2022 12:54 pm

Tgt Ion:130 Resp: 17050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 95.4 | 69.7 | 129.7 |
| 95 | 89.0 | 57.1 | 117.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121716.d
Acq On : 30 Sep 2022 6:23 am
Operator : taylors
Sample : jd52514-9 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,10
ALS Vial : 47 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 22:23:57 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

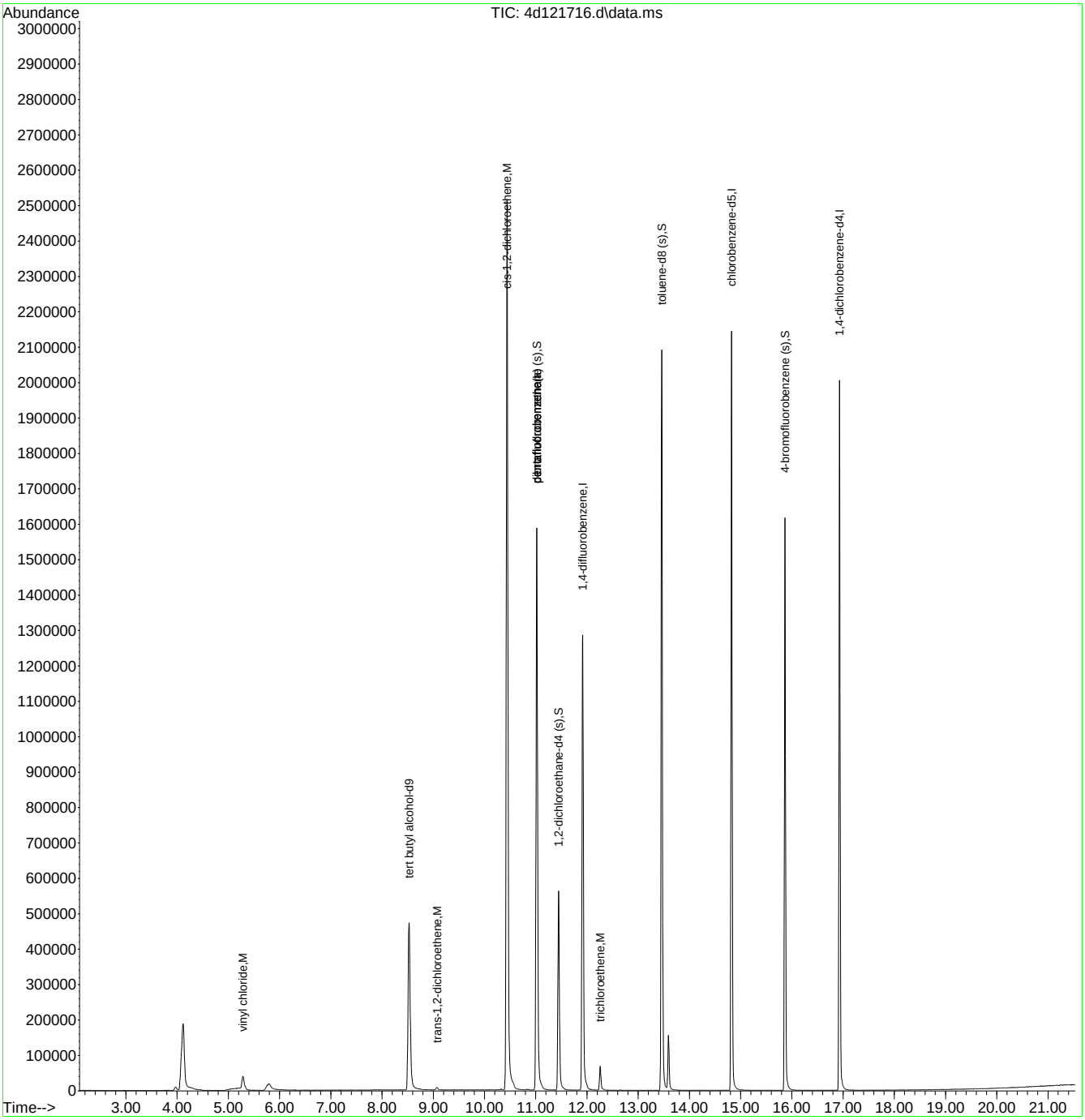
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 8.525 | 65 | 729387 | 500.00 | ug/L | -0.01 |
| 5) pentafluorobenzene | 11.021 | 168 | 787259 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 11.918 | 114 | 1144833 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 14.822 | 117 | 1128438 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.930 | 152 | 505778 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 11.021 | 168 | 787259 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 11.021 | 113 | 395972 | 53.07 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.14% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.446 | 65 | 426509 | 48.42 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 96.84% | | | |
| 74) toluene-d8 (s) | 13.459 | 98 | 1373682 | 50.51 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.02% | | | |
| 97) 4-bromofluorobenzene (s) | 15.866 | 95 | 505431 | 48.93 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.86% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 5.285 | 62 | 55255 | 6.61 | ug/L | 96 |
| 25) trans-1,2-dichloroethene | 9.076 | 96 | 5276 | 0.77 | ug/L | 94 |
| 36) cis-1,2-dichloroethene | 10.439 | 96 | 1310126 | 172.98 | ug/L | 97 |
| 60) trichloroethene | 12.258 | 130 | 25834 | 3.25 | ug/L | 99 |

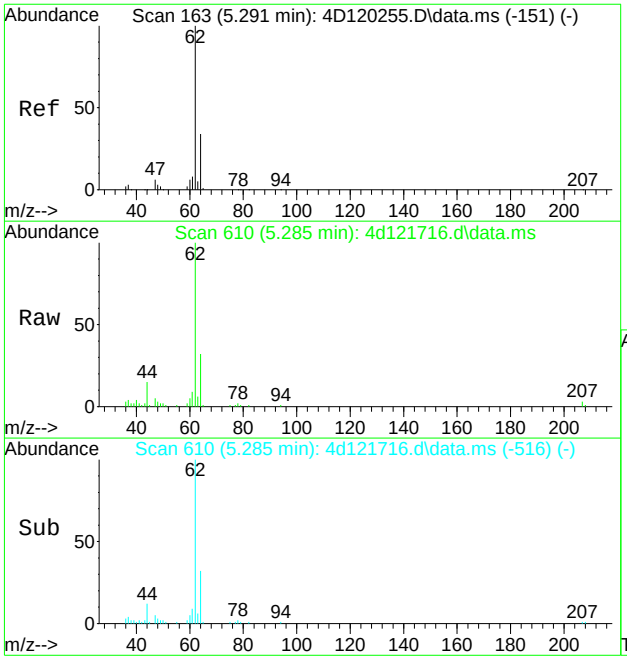
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121716.d
Acq On : 30 Sep 2022 6:23 am
Operator : taylors
Sample : jd52514-9 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,10
ALS Vial : 47 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 22:23:57 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

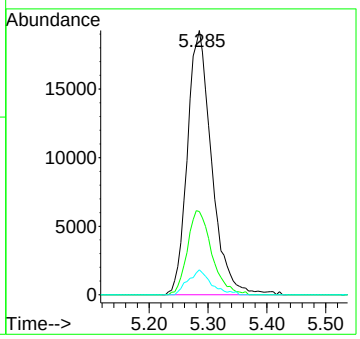


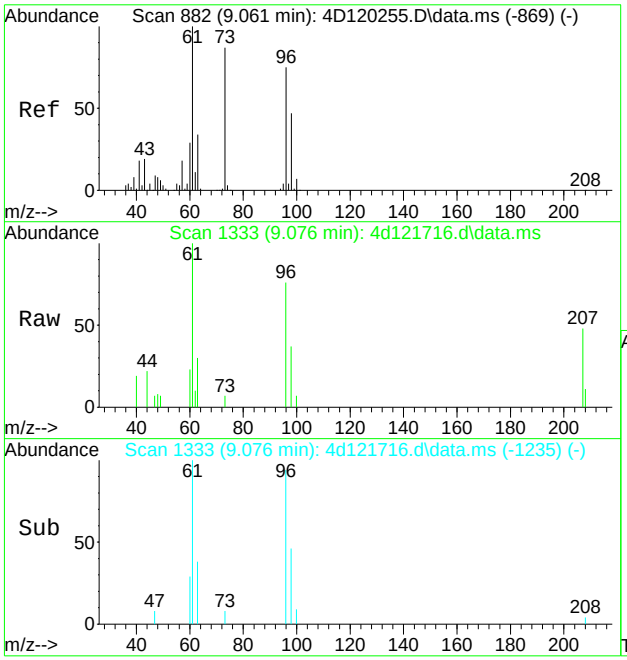



#9
vinyl chloride
Concen: 6.61 ug/L
RT: 5.285 min Scan# 610
Delta R.T. -0.006 min
Lab File: 4d121716.d
Acq: 30 Sep 2022 6:23 am

Tgt Ion: 62 Resp: 55255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.5 | 4.0 | 64.0 |
| 61 | 9.5 | 0.0 | 38.3 |

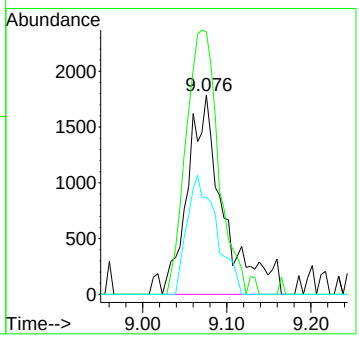


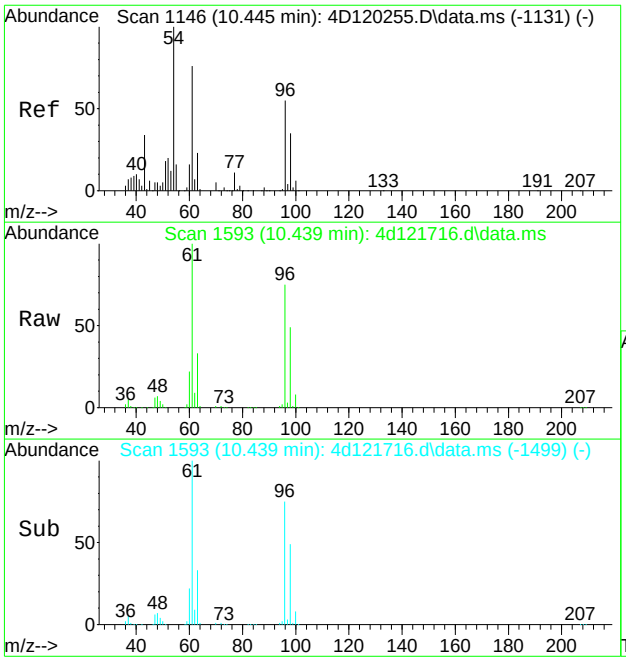




#25
trans-1,2-dichloroethene
Concen: 0.77 ug/L
RT: 9.076 min Scan# 1333
Delta R.T. 0.015 min
Lab File: 4d121716.d
Acq: 30 Sep 2022 6:23 am

Tgt Ion: 96 Resp: 5276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.9 | 103.0 | 163.0 |
| 98 | 48.9 | 32.0 | 92.0 |

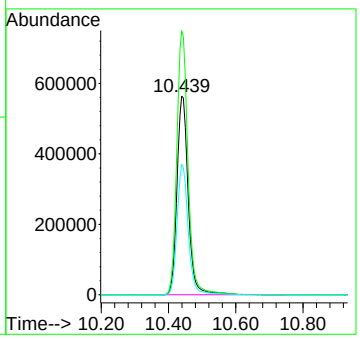


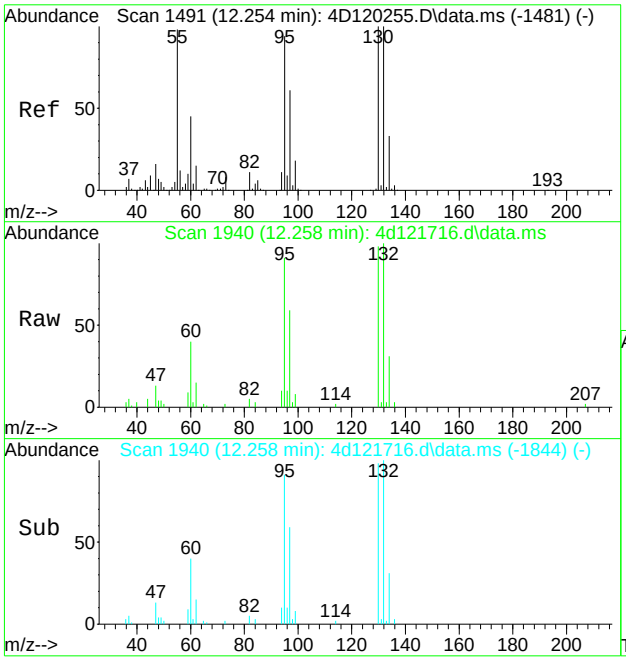



#36
cis-1,2-dichloroethene
Concen: 172.98 ug/L
RT: 10.439 min Scan# 1593
Delta R.T. -0.006 min
Lab File: 4d121716.d
Acq: 30 Sep 2022 6:23 am

Tgt Ion: 96 Resp: 1310126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 133.0 | 107.6 | 167.6 |
| 98 | 65.7 | 33.7 | 93.7 |

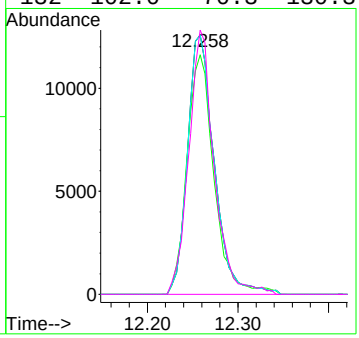



#60
trichloroethene
Concen: 3.25 ug/L
RT: 12.258 min Scan# 1940
Delta R.T. 0.004 min
Lab File: 4d121716.d
Acq: 30 Sep 2022 6:23 am

Tgt Ion:130 Resp: 25834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 92.4 | 64.3 | 124.3 |
| 130 | 100.0 | 70.0 | 130.0 |
| 132 | 102.0 | 70.3 | 130.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347778.d
Acq On : 3 Oct 2022 3:46 pm
Operator : nicoleh
Sample : jd52514-10 Inst : GCMSL
Misc : MS62508,VL10517,5,,,,10
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 04 01:03:07 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

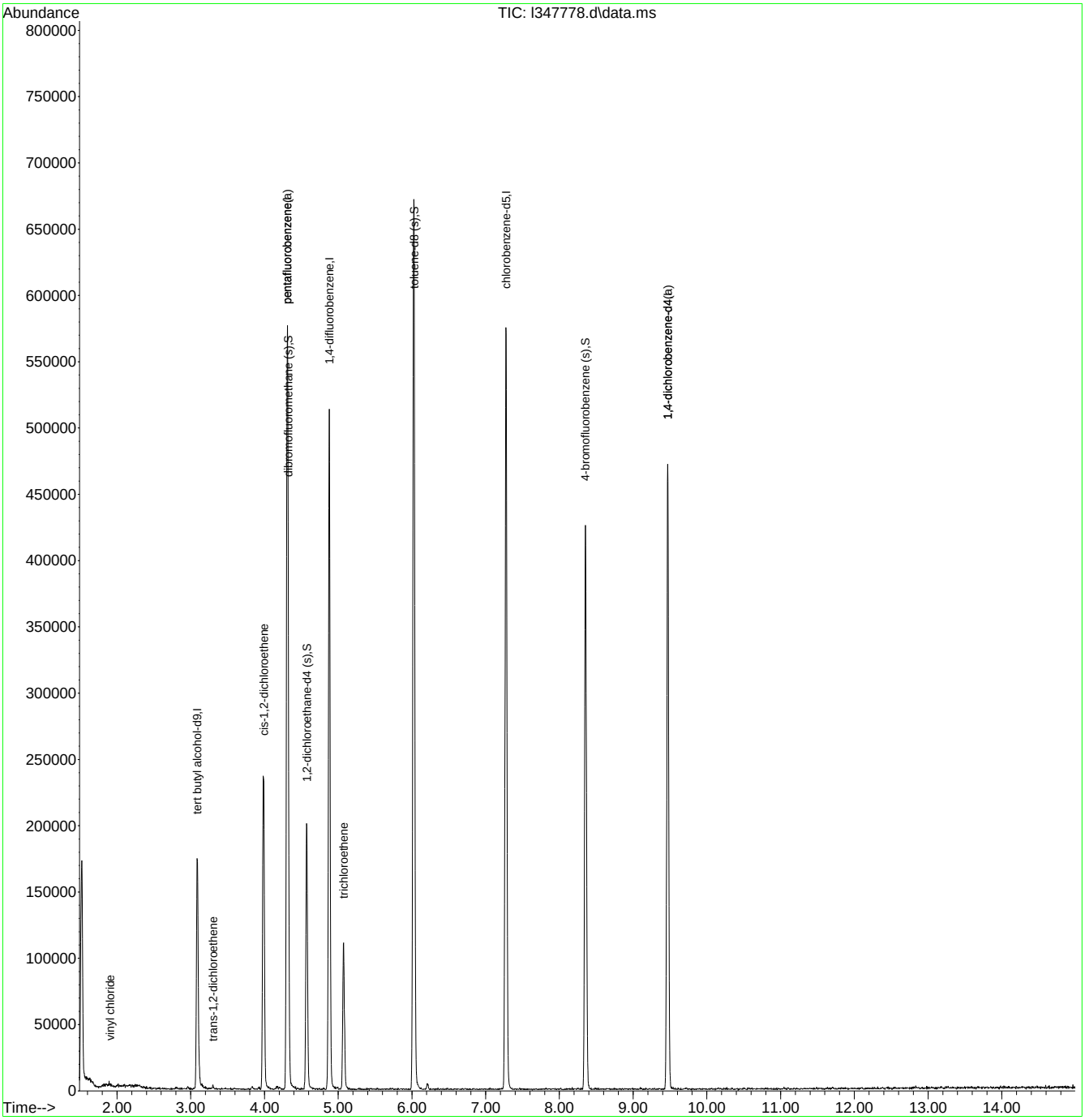
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.085 | 65 | 179355 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.308 | 168 | 240883 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.879 | 114 | 352241 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 319919 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 133880 | 50.00 | ug/L | 0.00 |
| 123) pentafluorobenzene(a) | 4.308 | 168 | 239291 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.468 | 152 | 133747 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.321 | 113 | 106623 | 49.01 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.02% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.574 | 65 | 122886 | 47.80 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 95.60% | | | |
| 73) toluene-d8 (s) | 6.028 | 98 | 438927 | 49.85 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.70% | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 161581 | 46.33 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.66% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.908 | 62 | 1330 | 0.41 | ug/L | # 49 |
| 26) trans-1,2-dichloroethene | 3.303 | 96 | 884 | 0.37 | ug/L | # 54 |
| 37) cis-1,2-dichloroethene | 3.990 | 96 | 93435 | 34.33 | ug/L | 97 |
| 59) trichloroethene | 5.075 | 95 | 33661 | 12.98 | ug/L | 97 |

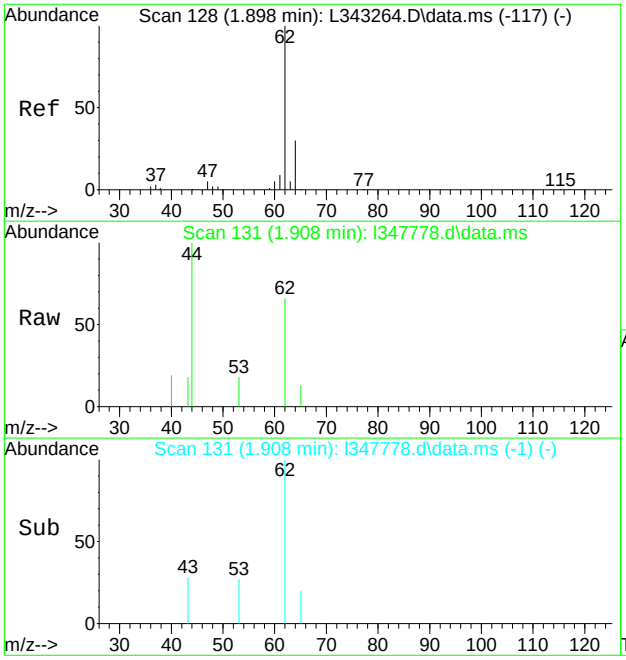
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347778.d
Acq On : 3 Oct 2022 3:46 pm
Operator : nicoleh
Sample : jd52514-10 Inst : GCMSL
Misc : MS62508,VL10517,5,,,,10
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 04 01:03:07 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

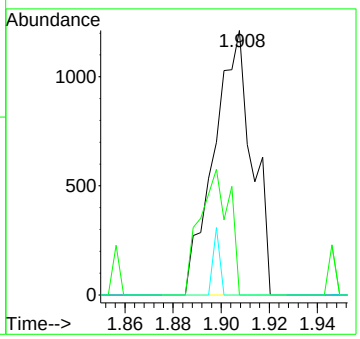


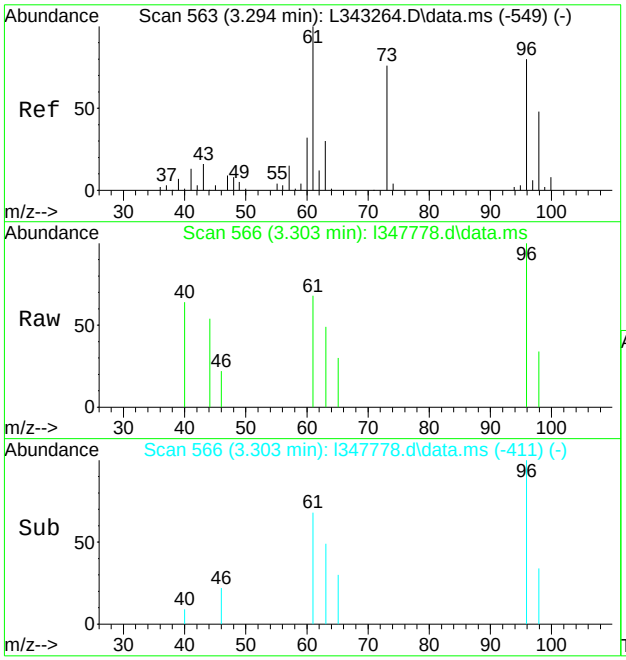



#9
vinyl chloride
Concen: 0.41 ug/L
RT: 1.908 min Scan# 131
Delta R.T. 0.007 min
Lab File: l347778.d
Acq: 3 Oct 2022 3:46 pm

Tgt Ion: 62 Resp: 1330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 0.0 | 2.8 | 62.8# |
| 61 | 0.0 | 0.0 | 39.6 |

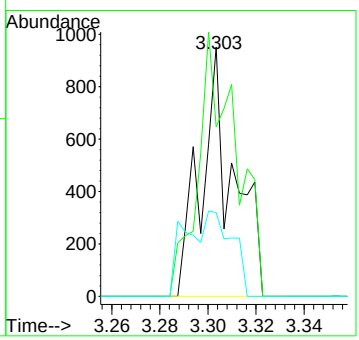


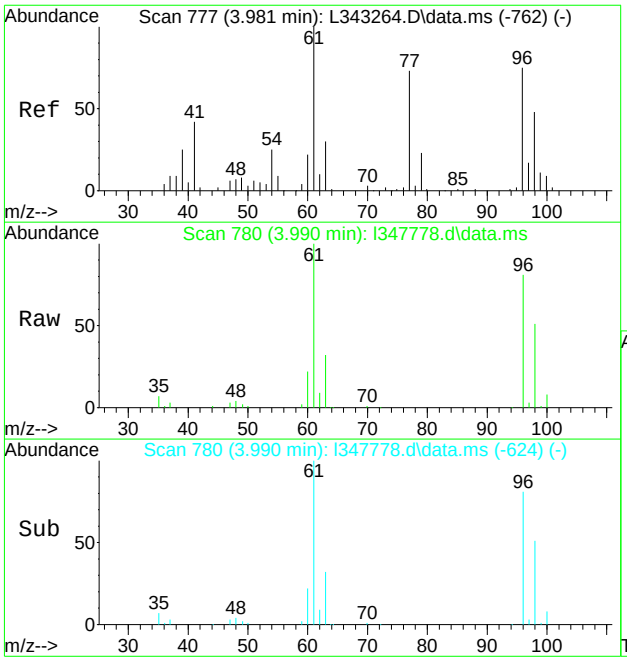




#26
trans-1,2-dichloroethene
Concen: 0.37 ug/L
RT: 3.303 min Scan# 566
Delta R.T. -0.004 min
Lab File: l347778.d
Acq: 3 Oct 2022 3:46 pm

Tgt Ion: 96 Resp: 884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 68.0 | 95.2 | 155.2# |
| 98 | 33.6 | 31.9 | 91.9 |

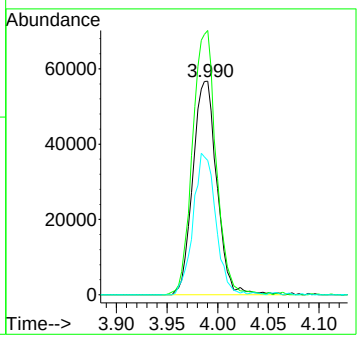


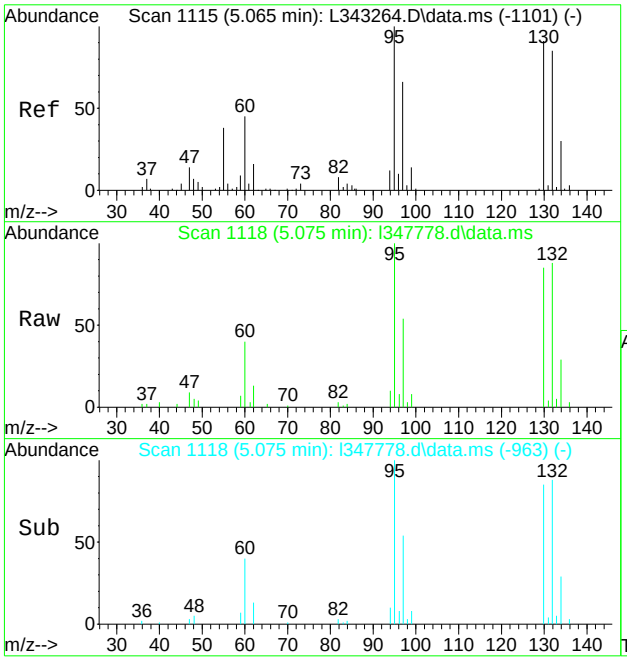



#37
cis-1,2-dichloroethene
Concen: 34.33 ug/L
RT: 3.990 min Scan# 780
Delta R.T. 0.000 min
Lab File: l347778.d
Acq: 3 Oct 2022 3:46 pm

Tgt Ion: 96 Resp: 93435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 123.8 | 98.5 | 158.5 |
| 98 | 62.9 | 31.8 | 91.8 |

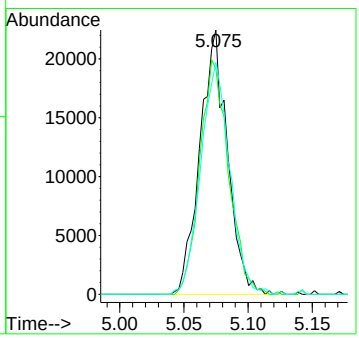



#59
trichloroethene
Concen: 12.98 ug/L
RT: 5.075 min Scan# 1118
Delta R.T. -0.003 min
Lab File: l347778.d
Acq: 3 Oct 2022 3:46 pm

Tgt Ion: 95 Resp: 33661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 85.3 | 57.9 | 117.9 |
| 132 | 87.9 | 60.6 | 120.6 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347779.d
Acq On : 3 Oct 2022 4:09 pm
Operator : nicoleh
Sample : jd52514-10 Inst : GCMSL
Misc : MS62508,VL10517,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 04 01:03:49 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

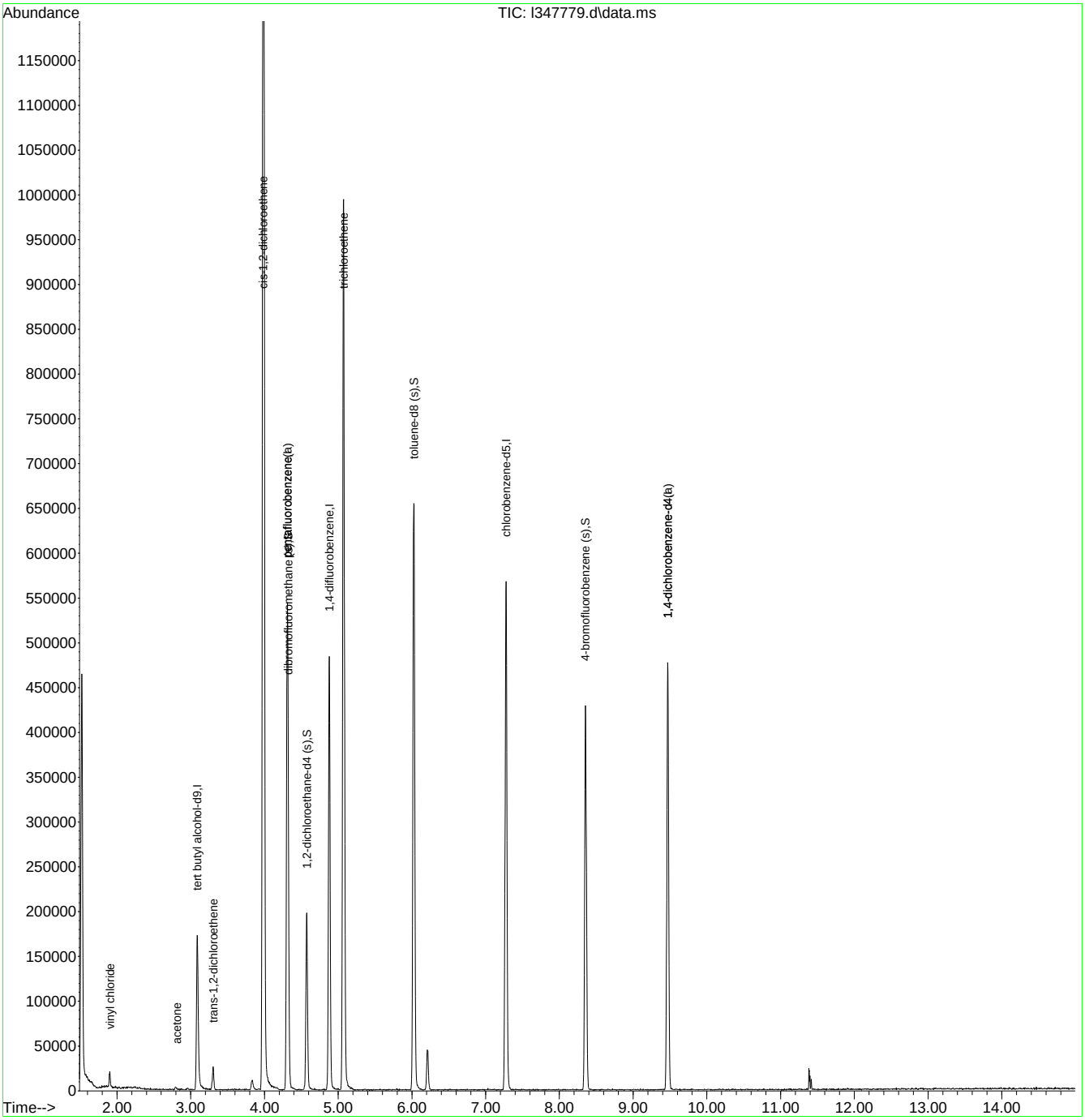
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.089 | 65 | 174605 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.311 | 168 | 223028 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.879 | 114 | 342425 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 324458 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 133392 | 50.00 | ug/L | 0.00 |
| 123) pentafluorobenzene(a) | 4.311 | 168 | 223052 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.468 | 152 | 133371 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.321 | 113 | 100811 | 50.04 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.08% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.574 | 65 | 117450 | 46.99 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 93.98% | | | |
| 73) toluene-d8 (s) | 6.025 | 98 | 431316 | 48.30 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.60% | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 160572 | 46.21 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.42% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.905 | 62 | 12052 | 4.01 | ug/L | 96 |
| 18) acetone | 2.813 | 58 | 590 | 1.63 | ug/L # | 18 |
| 26) trans-1,2-dichloroethene | 3.307 | 96 | 7948 | 3.57 | ug/L | 89 |
| 37) cis-1,2-dichloroethene | 3.984 | 96 | 737324 | 292.59 | ug/L | 94 |
| 59) trichloroethene | 5.075 | 95 | 313704 | 124.43 | ug/L | 98 |

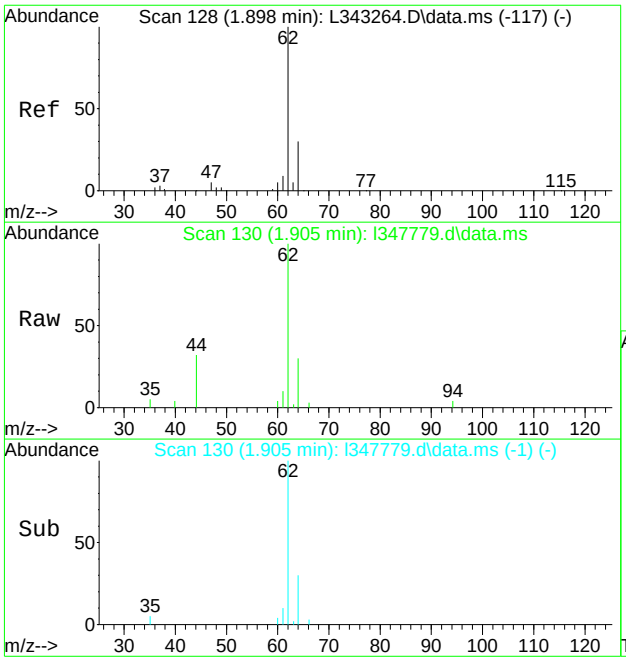
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347779.d
Acq On : 3 Oct 2022 4:09 pm
Operator : nicoleh
Sample : jd52514-10 Inst : GCMSL
Misc : MS62508,VL10517,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 04 01:03:49 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

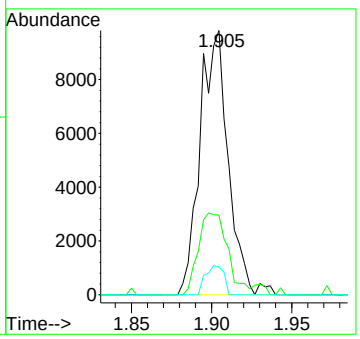


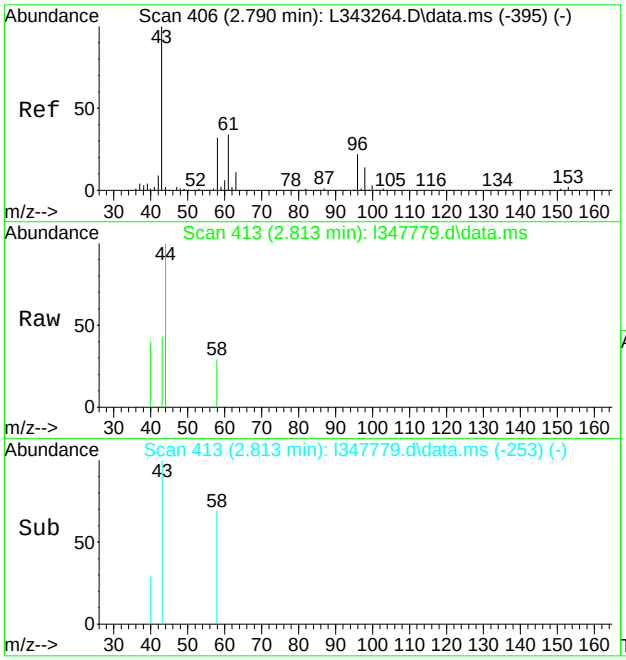



#9
vinyl chloride
Concen: 4.01 ug/L
RT: 1.905 min Scan# 130
Delta R.T. 0.004 min
Lab File: l347779.d
Acq: 3 Oct 2022 4:09 pm

Tgt Ion: 62 Resp: 12052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.1 | 2.8 | 62.8 |
| 61 | 10.5 | 0.0 | 39.6 |

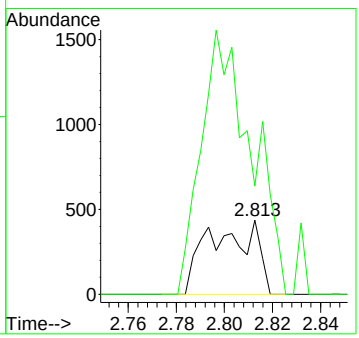


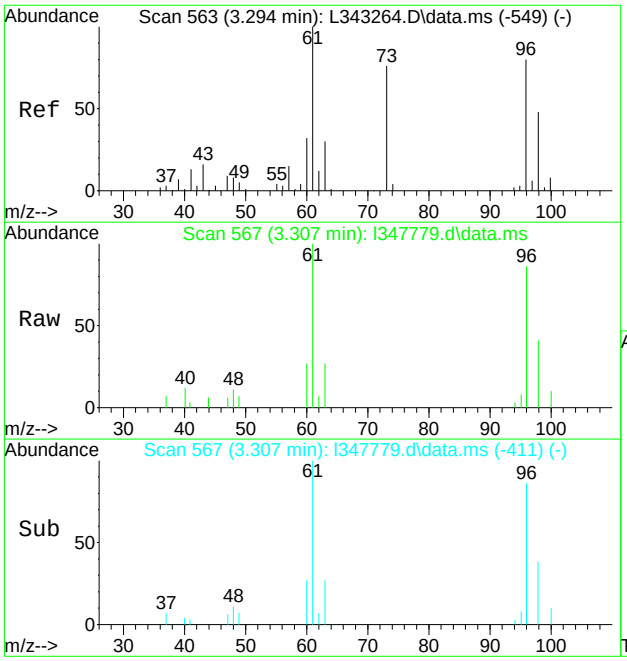




#18
acetone
Concen: 1.63 ug/L
RT: 2.813 min Scan# 413
Delta R.T. 0.013 min
Lab File: l347779.d
Acq: 3 Oct 2022 4:09 pm

Tgt Ion: 58 Resp: 590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 145.8 | 281.1 | 341.1# |

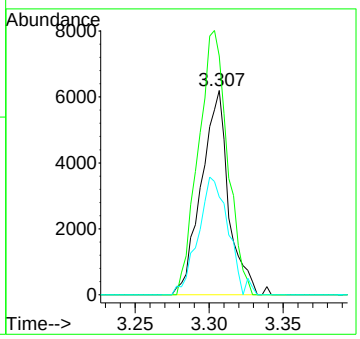


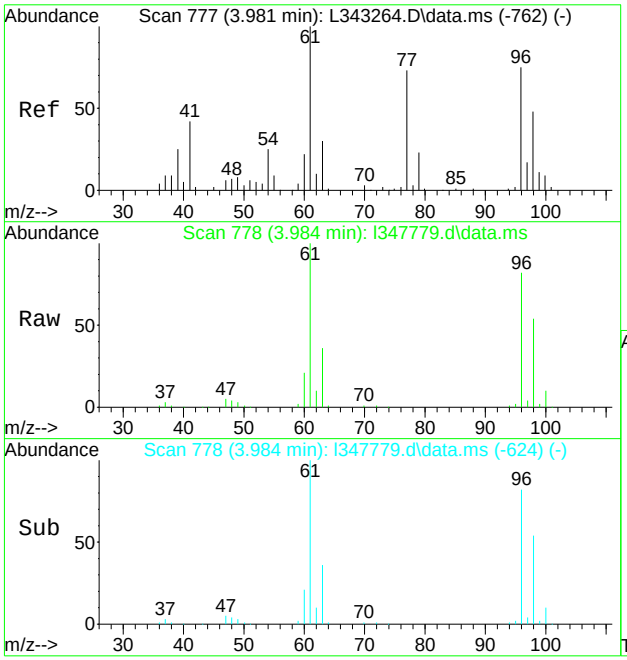



#26
trans-1,2-dichloroethene
Concen: 3.57 ug/L
RT: 3.307 min Scan# 567
Delta R.T. -0.000 min
Lab File: l347779.d
Acq: 3 Oct 2022 4:09 pm

Tgt Ion: 96 Resp: 7948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 116.9 | 95.2 | 155.2 |
| 98 | 47.8 | 31.9 | 91.9 |

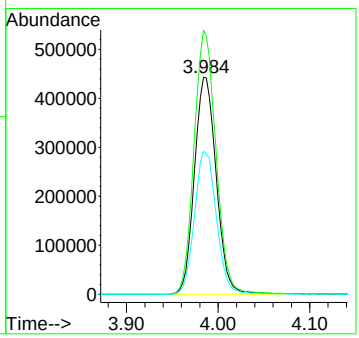


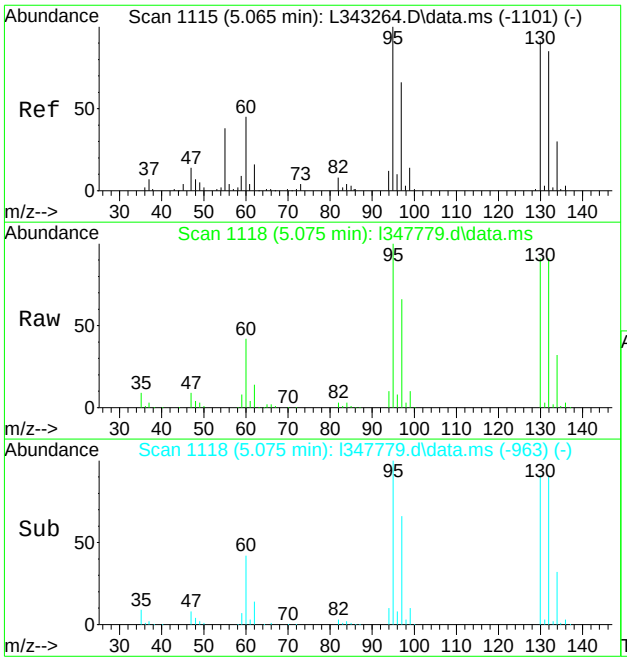




#37
cis-1,2-dichloroethene
Concen: 292.59 ug/L
RT: 3.984 min Scan# 778
Delta R.T. -0.006 min
Lab File: l347779.d
Acq: 3 Oct 2022 4:09 pm

Tgt Ion: 96 Resp: 737324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 121.7 | 98.5 | 158.5 |
| 98 | 65.9 | 31.8 | 91.8 |

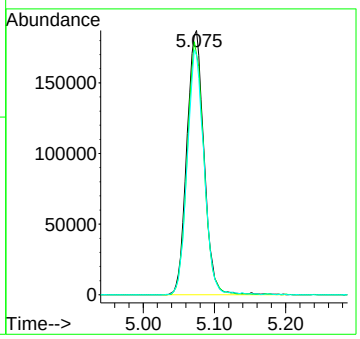





#59
trichloroethene
Concen: 124.43 ug/L
RT: 5.075 min Scan# 1118
Delta R.T. -0.003 min
Lab File: l347779.d
Acq: 3 Oct 2022 4:09 pm

Tgt Ion: 95 Resp: 313704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 91.0 | 57.9 | 117.9 |
| 132 | 90.6 | 60.6 | 120.6 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347780.d
Acq On : 3 Oct 2022 4:32 pm
Operator : nicoleh
Sample : jd52514-11 Inst : GCMSL
Misc : MS62508,VL10517,5,,,,50
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 04 01:05:31 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

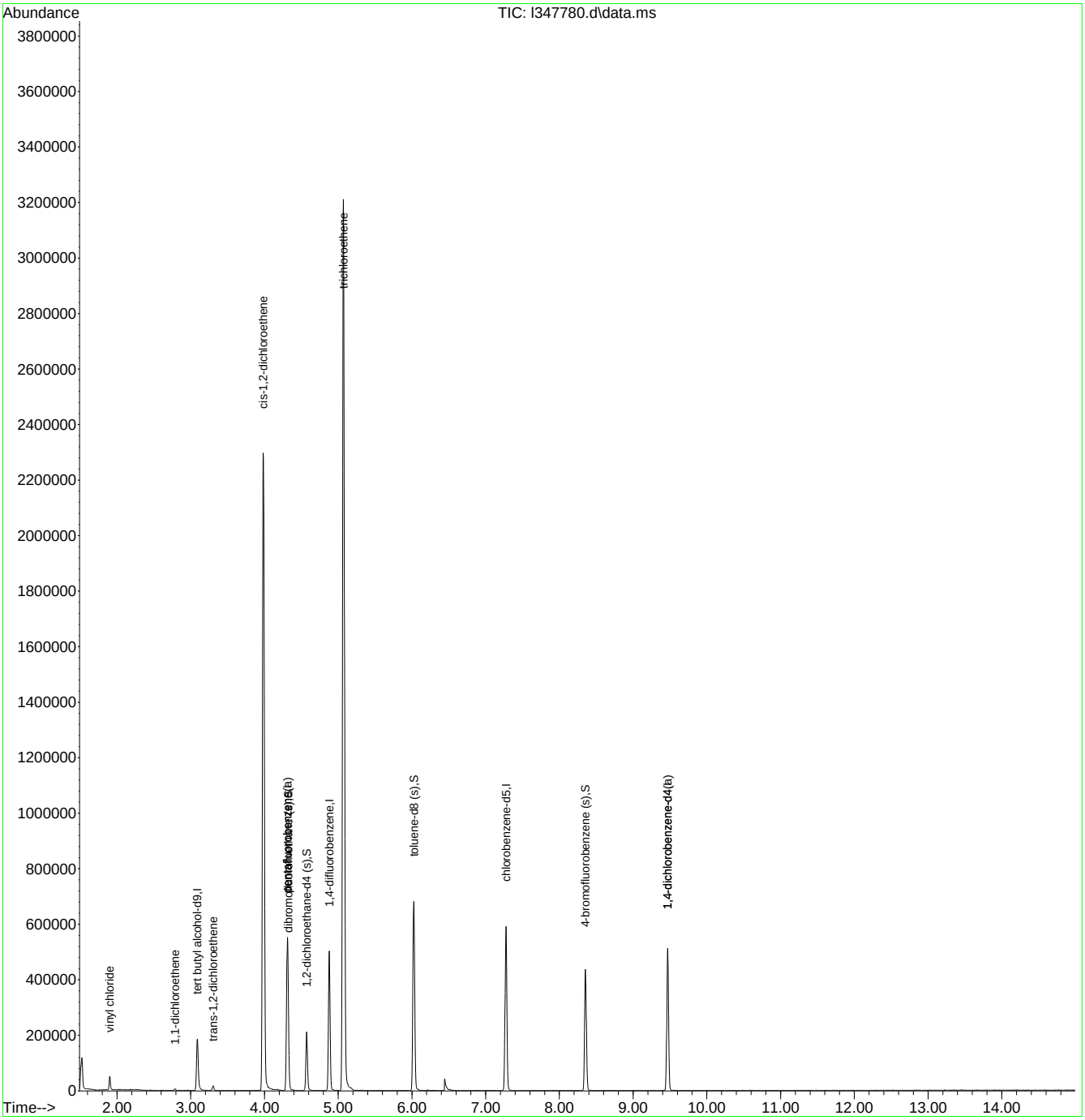
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.088 | 65 | 190489 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.311 | 168 | 225328 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.879 | 114 | 358011 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 331973 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.465 | 152 | 140607 | 50.00 | ug/L | 0.00 |
| 123) pentafluorobenzene(a) | 4.311 | 168 | 225316 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.465 | 152 | 140629 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.321 | 113 | 100917 | 49.59 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.18% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.571 | 65 | 124174 | 47.52 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 95.04% | | | |
| 73) toluene-d8 (s) | 6.025 | 98 | 440798 | 48.24 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.48% | | | |
| 96) 4-bromofluorobenzene (s) | 8.351 | 95 | 165039 | 45.06 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 90.12% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.898 | 62 | 35636 | 11.75 | ug/L | 97 |
| 17) 1,1-dichloroethene | 2.787 | 96 | 2078 | 1.00 | ug/L # | 60 |
| 26) trans-1,2-dichloroethene | 3.303 | 96 | 5589 | 2.48 | ug/L | 93 |
| 37) cis-1,2-dichloroethene | 3.984 | 96 | 926196 | 363.79 | ug/L | 94 |
| 59) trichloroethene | 5.072 | 95 | 1049358 | 398.10 | ug/L | 95 |

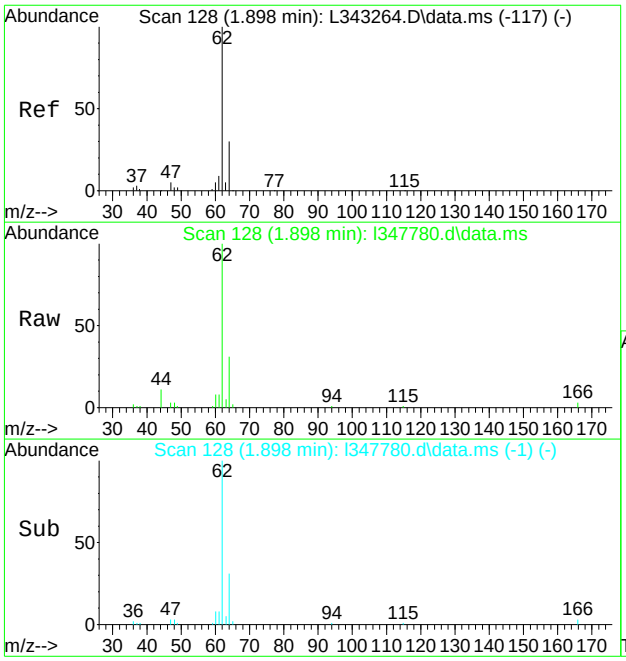
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347780.d
Acq On : 3 Oct 2022 4:32 pm
Operator : nicoleh
Sample : jd52514-11 Inst : GCMSL
Misc : MS62508,VL10517,5,,,,50
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 04 01:05:31 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

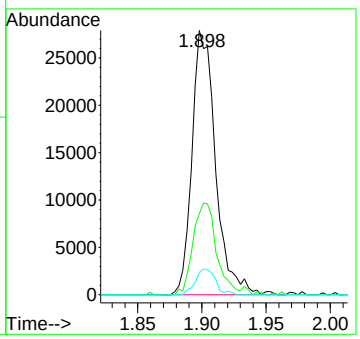


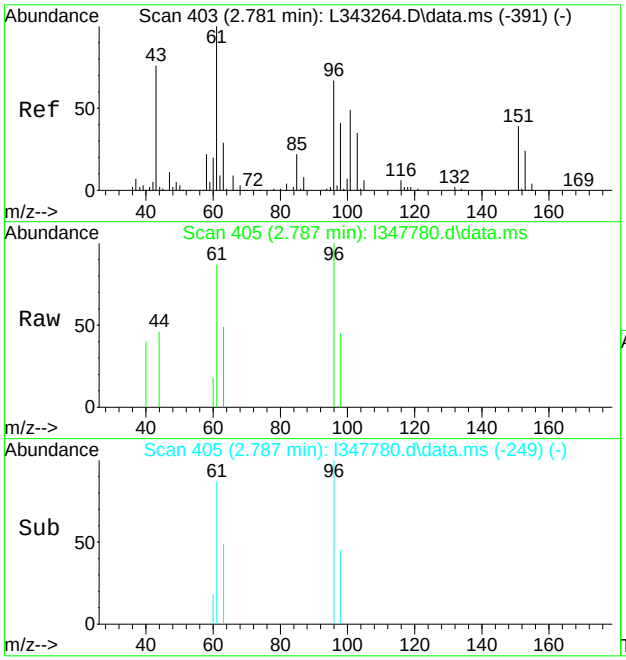



#9
vinyl chloride
Concen: 11.75 ug/L
RT: 1.898 min Scan# 128
Delta R.T. -0.003 min
Lab File: l347780.d
Acq: 3 Oct 2022 4:32 pm

Tgt Ion: 62 Resp: 35636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.8 | 2.8 | 62.8 |
| 61 | 8.5 | 0.0 | 39.6 |

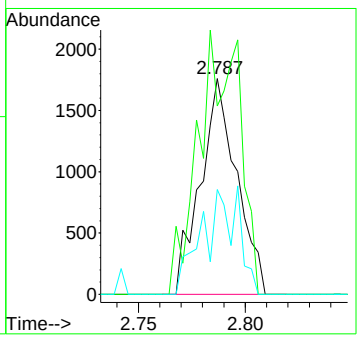


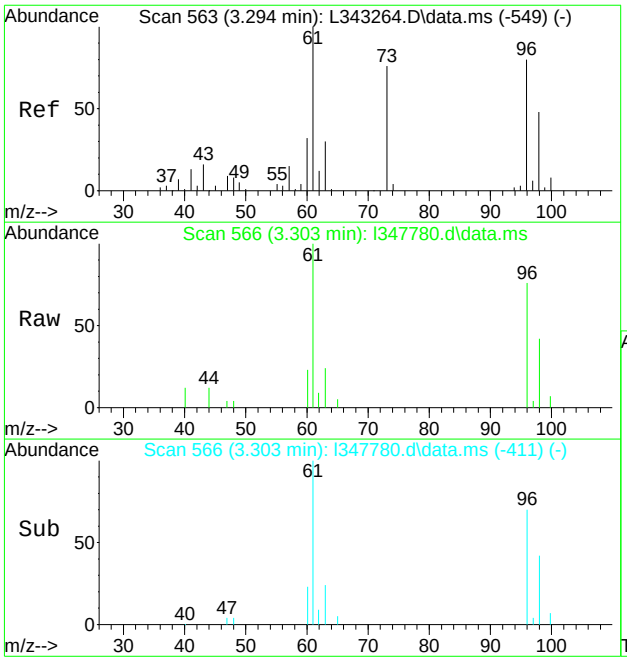




#17
1,1-dichloroethene
Concen: 1.00 ug/L
RT: 2.787 min Scan# 405
Delta R.T. -0.000 min
Lab File: l347780.d
Acq: 3 Oct 2022 4:32 pm

Tgt Ion: 96 Resp: 2078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 87.3 | 123.9 | 183.9# |
| 63 | 48.6 | 21.2 | 81.2 |

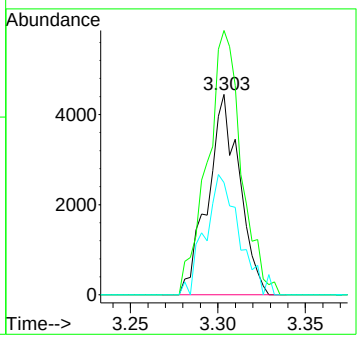


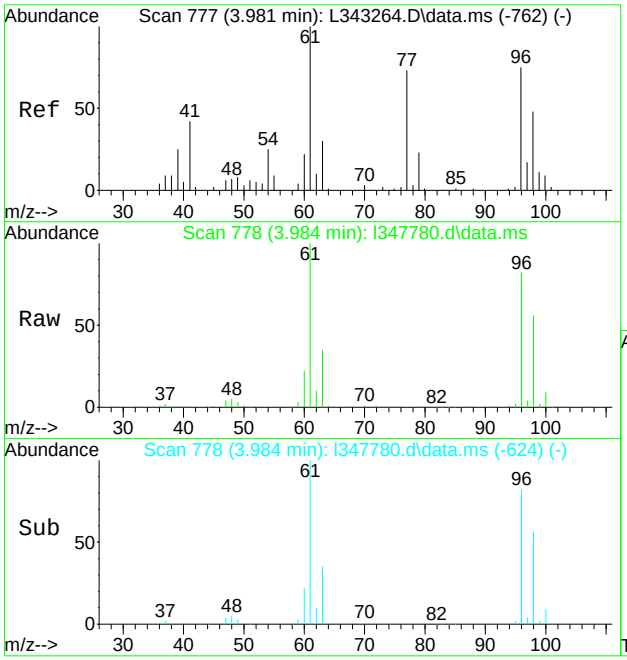



#26
trans-1,2-dichloroethene
Concen: 2.48 ug/L
RT: 3.303 min Scan# 566
Delta R.T. -0.004 min
Lab File: l347780.d
Acq: 3 Oct 2022 4:32 pm

Tgt Ion: 96 Resp: 5589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 132.0 | 95.2 | 155.2 |
| 98 | 56.0 | 31.9 | 91.9 |

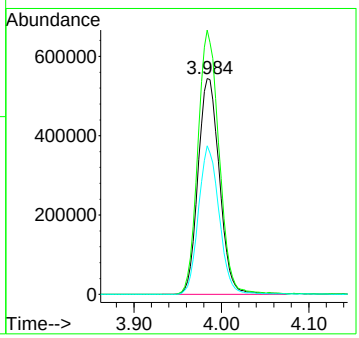


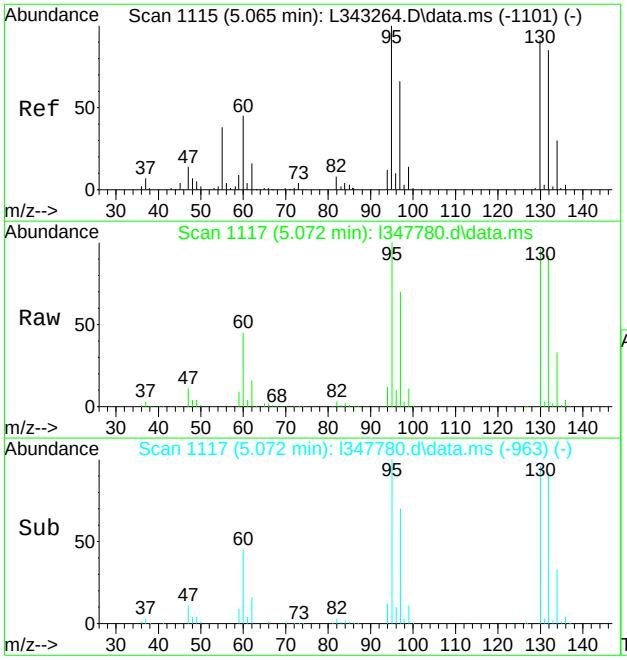




#37
cis-1,2-dichloroethene
Concen: 363.79 ug/L
RT: 3.984 min Scan# 778
Delta R.T. -0.006 min
Lab File: l347780.d
Acq: 3 Oct 2022 4:32 pm

Tgt Ion: 96 Resp: 926196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 122.5 | 98.5 | 158.5 |
| 98 | 68.8 | 31.8 | 91.8 |

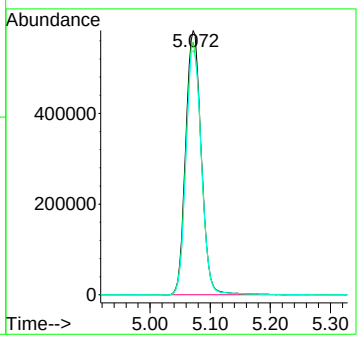





#59
trichloroethene
Concen: 398.10 ug/L
RT: 5.072 min Scan# 1117
Delta R.T. -0.006 min
Lab File: l347780.d
Acq: 3 Oct 2022 4:32 pm

Tgt Ion: 95 Resp: 1049358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 95.6 | 57.9 | 117.9 |
| 132 | 92.3 | 60.6 | 120.6 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-4-22\vl10517\
Data File : l347786.d
Acq On : 3 Oct 2022 6:51 pm
Operator : nicoleh
Sample : jd52514-11
Misc : MS62577,VL10517,5,,,,250
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 04 16:13:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

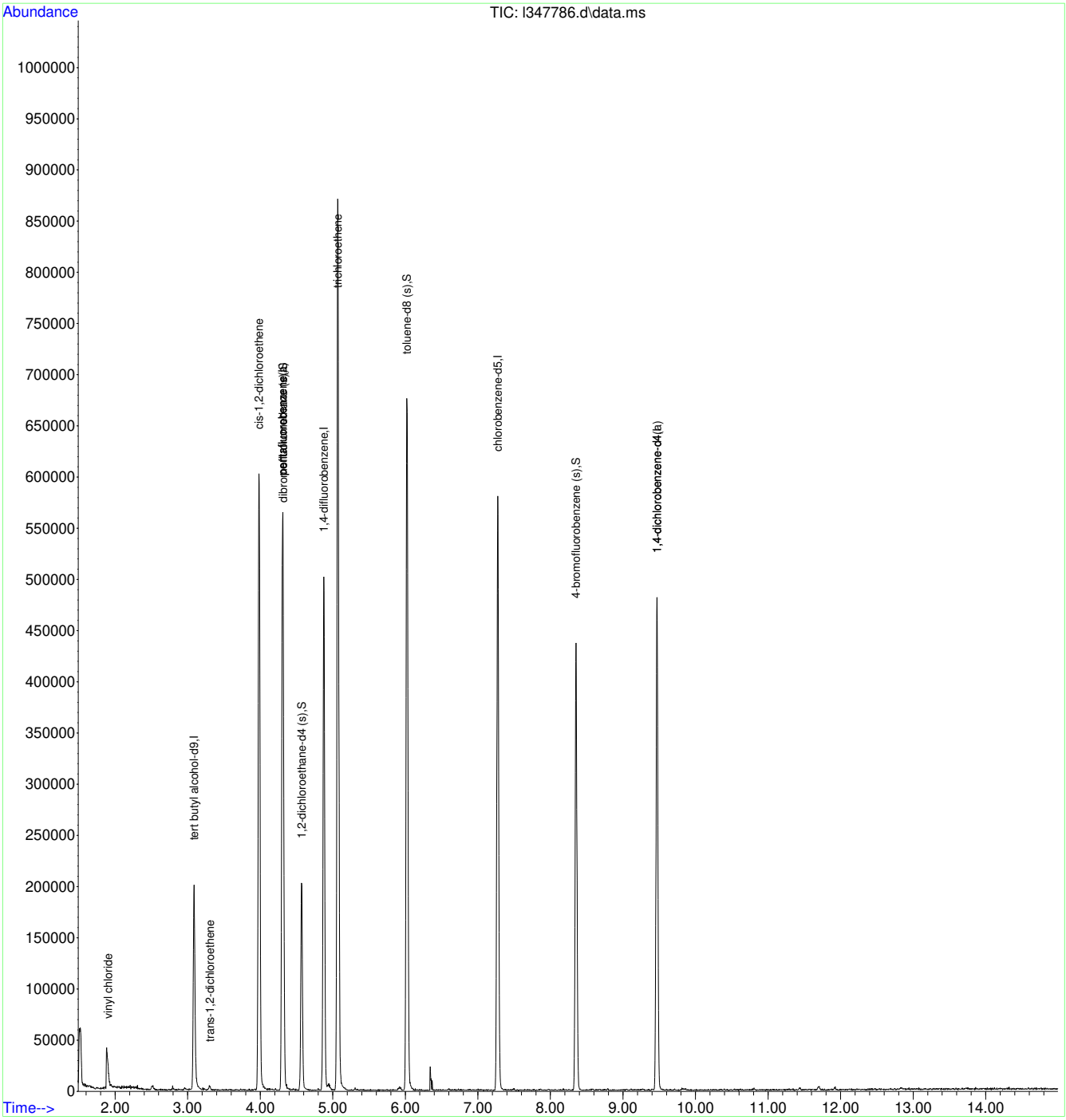
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.088 | 65 | 199753 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.308 | 168 | 239325 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.876 | 114 | 357658 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.273 | 117 | 325284 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 134718 | 50.00 | ug/L | 0.00 |
| 123) pentafluorobenzene(a) | 4.308 | 168 | 239492 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.468 | 152 | 134717 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.314 | 113 | 108265 | 50.09 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.18% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.571 | 65 | 124418 | 47.66 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 95.32% | | | |
| 73) toluene-d8 (s) | 6.021 | 98 | 437526 | 48.87 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.74% | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 163792 | 46.67 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.34% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.901 | 62 | 6932 | 2.15 | ug/L | 95 |
| 26) trans-1,2-dichloroethene | 3.307 | 96 | 1428 | 0.60 | ug/L # | 37 |
| 37) cis-1,2-dichloroethene | 3.984 | 96 | 236868 | 87.59 | ug/L | 92 |
| 59) trichloroethene | 5.068 | 95 | 280064 | 106.35 | ug/L | 95 |

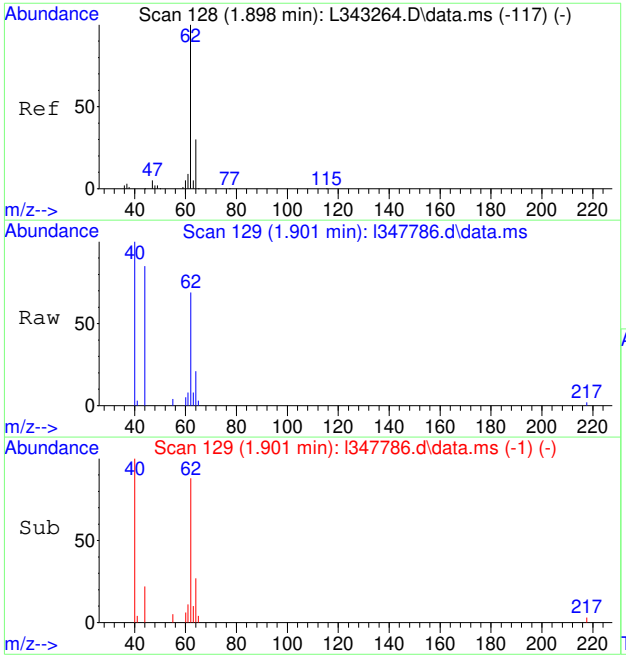
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-4-22\vl10517\
Data File : l347786.d
Acq On : 3 Oct 2022 6:51 pm
Operator : nicoleh
Sample : jd52514-11
Misc : MS62577,VL10517,5,,,,250
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 04 16:13:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

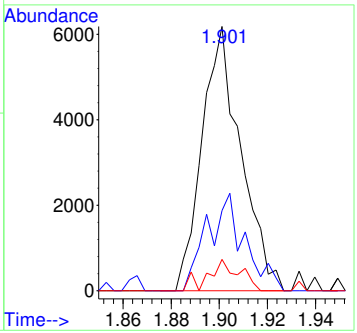


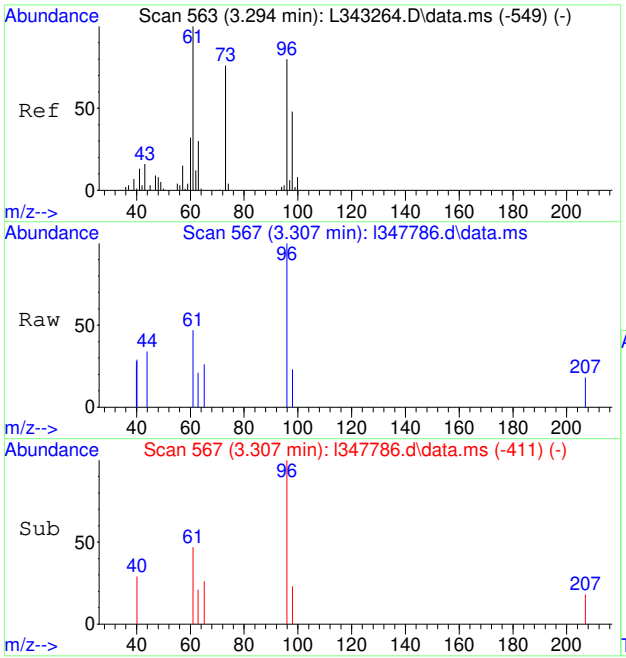



#9
vinyl chloride
Concen: 2.15 ug/L
RT: 1.901 min Scan# 129
Delta R.T. 0.000 min
Lab File: l347786.d
Acq: 3 Oct 2022 6:51 pm

Tgt Ion: 62 Resp: 6932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.3 | 2.8 | 62.8 |
| 61 | 11.9 | 0.0 | 39.6 |

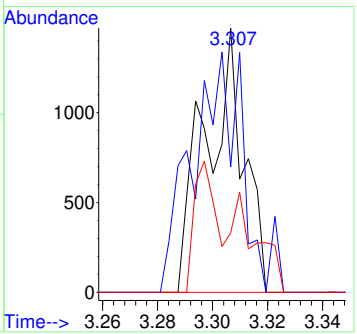


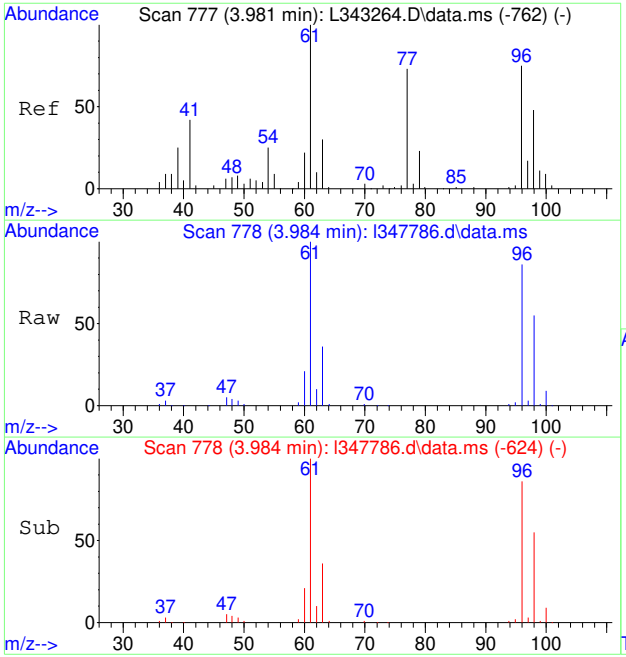




#26
trans-1,2-dichloroethene
Concen: 0.60 ug/L
RT: 3.307 min Scan# 567
Delta R.T. -0.000 min
Lab File: l347786.d
Acq: 3 Oct 2022 6:51 pm

Tgt Ion: 96 Resp: 1428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 47.4 | 95.2 | 155.2# |
| 98 | 22.6 | 31.9 | 91.9# |

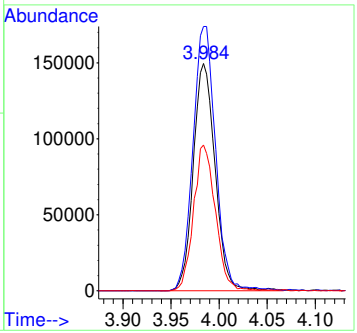


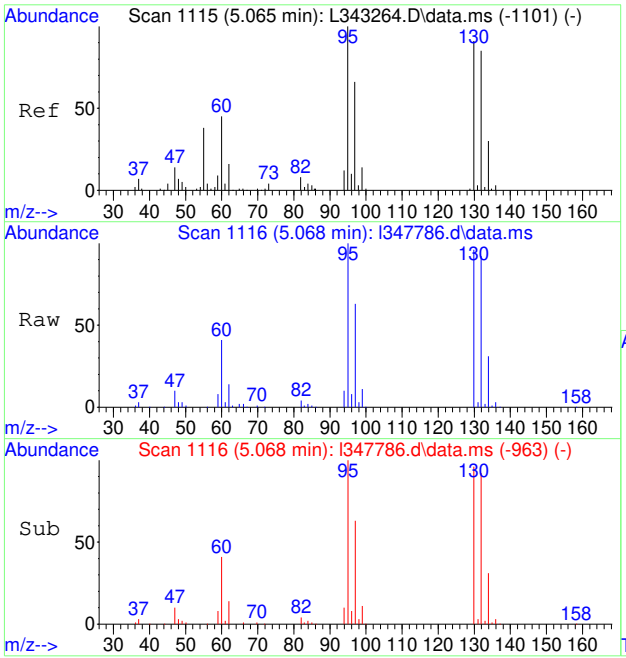



#37
cis-1,2-dichloroethene
Concen: 87.59 ug/L
RT: 3.984 min Scan# 778
Delta R.T. -0.006 min
Lab File: l347786.d
Acq: 3 Oct 2022 6:51 pm

Tgt Ion: 96 Resp: 236868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 116.3 | 98.5 | 158.5 |
| 98 | 64.1 | 31.8 | 91.8 |

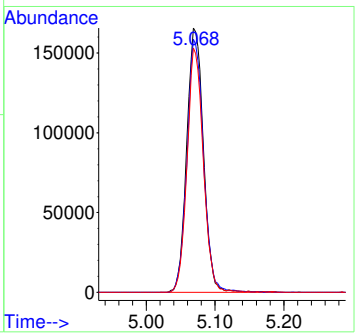



#59
trichloroethene
Concen: 106.35 ug/L
RT: 5.068 min Scan# 1116
Delta R.T. -0.010 min
Lab File: l347786.d
Acq: 3 Oct 2022 6:51 pm

Tgt Ion: 95 Resp: 280064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 95.7 | 57.9 | 117.9 |
| 132 | 92.4 | 60.6 | 120.6 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220447.d
Acq On : 30 Sep 2022 1:40 pm
Operator : nicoleh
Sample : jd52514-12 Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,5
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 20:59:45 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

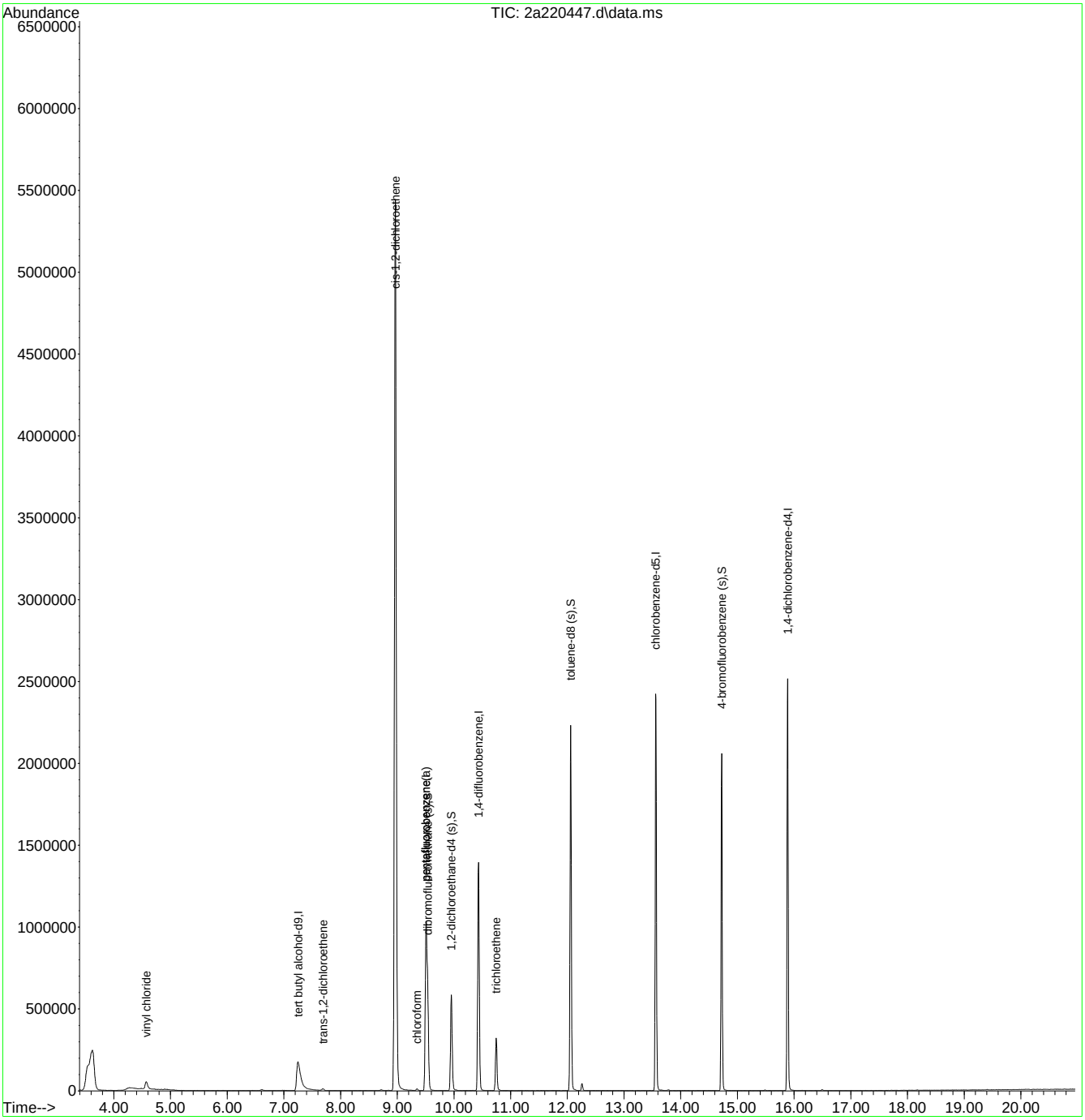
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.251 | 65 | 505469 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.505 | 168 | 732652 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.434 | 114 | 1148145 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.558 | 117 | 1199982 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 593514 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.505 | 168 | 732652 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 375733 | 54.48 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 108.96% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.951 | 65 | 439227 | 41.15 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 82.30% | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 1345901 | 45.78 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 91.56% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 599417 | 54.59 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 109.18% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 4.572 | 62 | 86636 | 8.90 | ug/L | 98 |
| 25) trans-1,2-dichloroethene | 7.691 | 96 | 5747 | 0.93 | ug/L # | 77 |
| 36) cis-1,2-dichloroethene | 8.965 | 96 | 2697468 | 398.11 | ug/L | 92 |
| 40) chloroform | 9.348 | 83 | 9176 | 0.73 | ug/L | 94 |
| 59) trichloroethene | 10.743 | 95 | 106906 | 13.73 | ug/L | 95 |

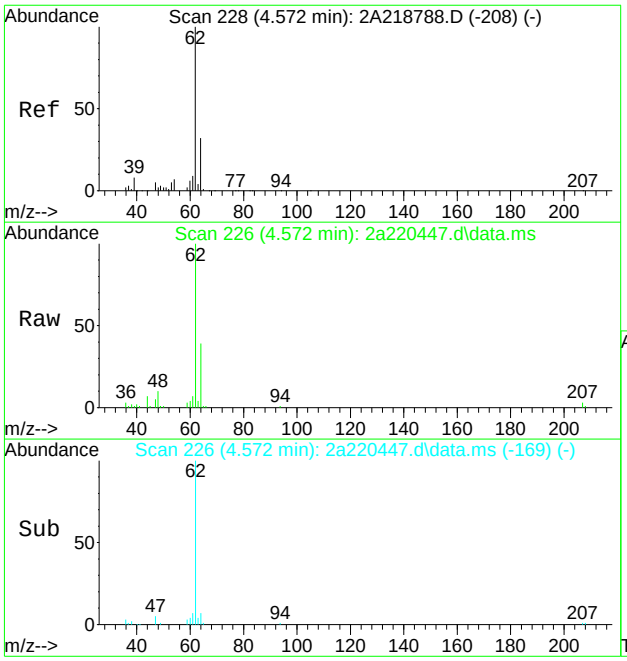
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220447.d
Acq On : 30 Sep 2022 1:40 pm
Operator : nicoleh
Sample : jd52514-12 Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,5
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 20:59:45 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

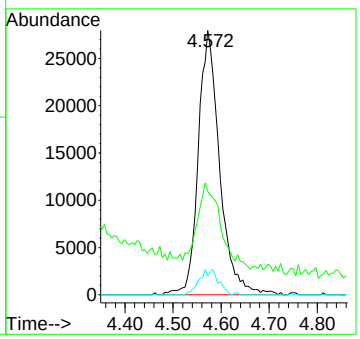


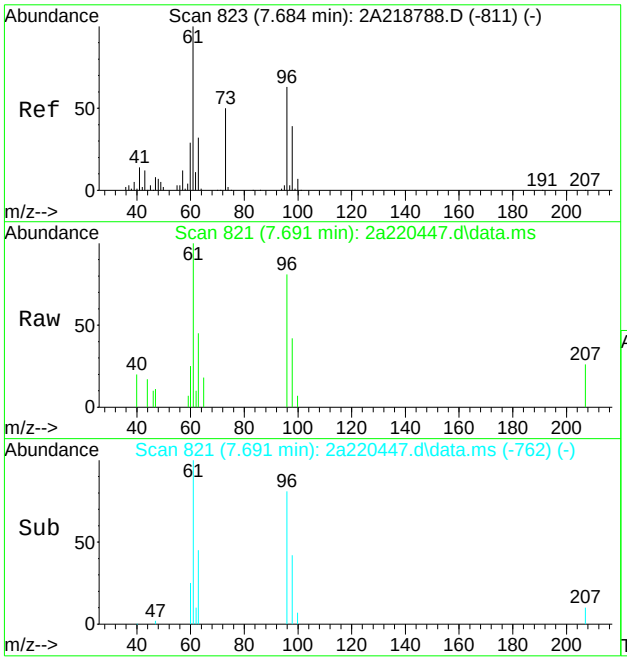



#9
vinyl chloride
Concen: 8.90 ug/L
RT: 4.572 min Scan# 226
Delta R.T. -0.001 min
Lab File: 2a220447.d
Acq: 30 Sep 2022 1:40 pm

Tgt Ion: 62 Resp: 86636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.7 | 2.1 | 62.1 |
| 61 | 7.2 | 0.0 | 38.8 |

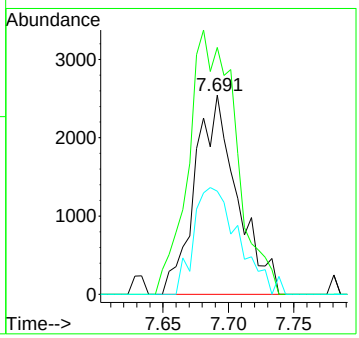


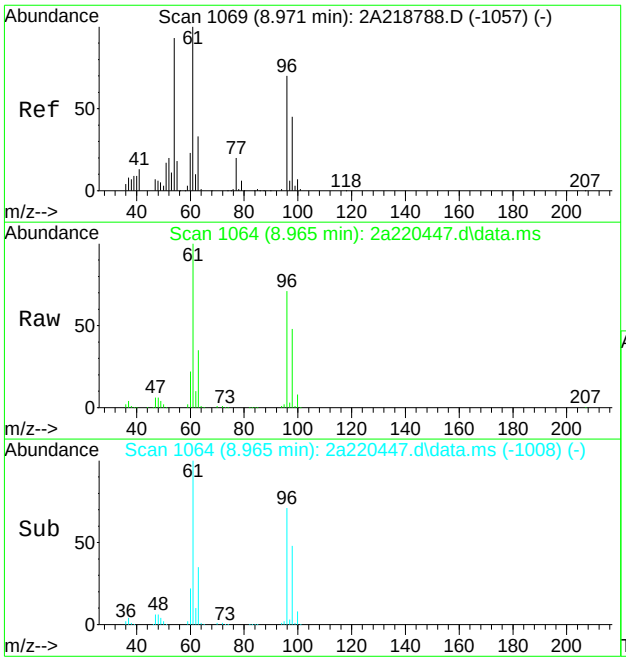




#25
trans-1,2-dichloroethene
Concen: 0.93 ug/L
RT: 7.691 min Scan# 821
Delta R.T. 0.007 min
Lab File: 2a220447.d
Acq: 30 Sep 2022 1:40 pm

Tgt Ion: 96 Resp: 5747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 123.9 | 130.0 | 190.0# |
| 98 | 51.7 | 31.6 | 91.6 |

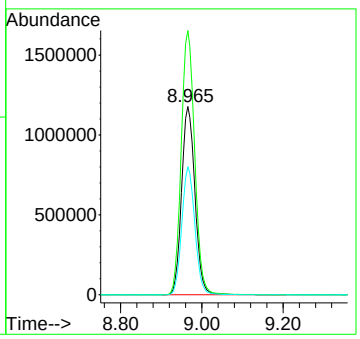


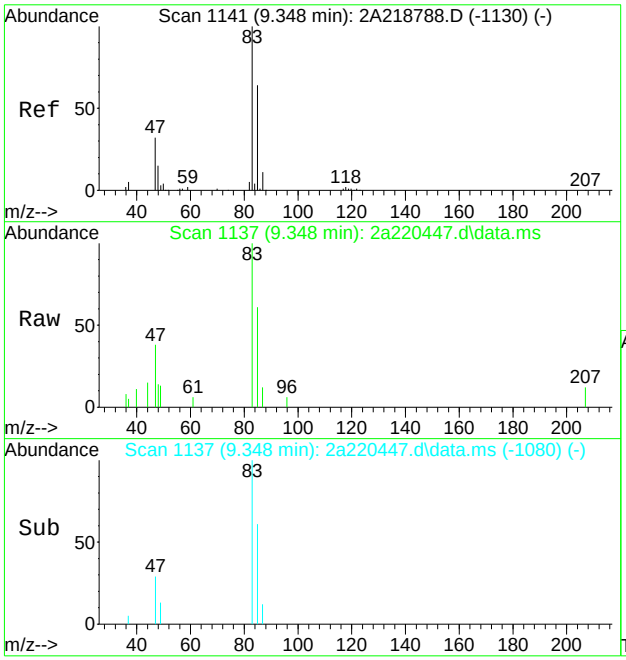



#36
cis-1,2-dichloroethene
Concen: 398.11 ug/L
RT: 8.965 min Scan# 1064
Delta R.T. -0.006 min
Lab File: 2a220447.d
Acq: 30 Sep 2022 1:40 pm

Tgt Ion: 96 Resp: 2697468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 140.3 | 122.7 | 182.7 |
| 98 | 68.0 | 34.0 | 94.0 |

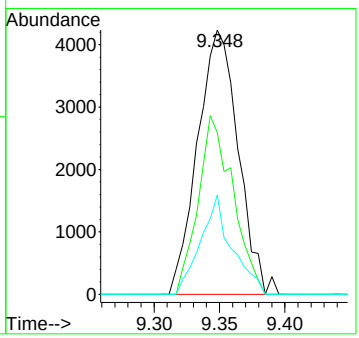


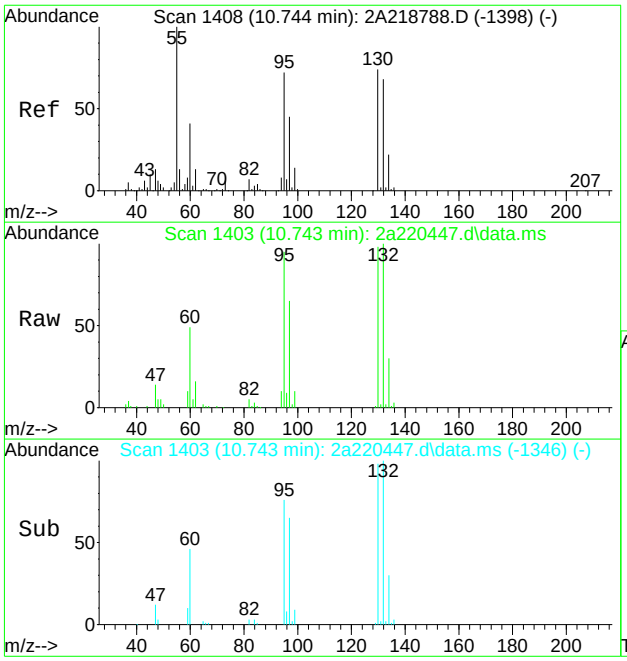




#40
chloroform
Concen: 0.73 ug/L
RT: 9.348 min Scan# 1137
Delta R.T. 0.001 min
Lab File: 2a220447.d
Acq: 30 Sep 2022 1:40 pm

Tgt Ion: 83 Resp: 9176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.2 | 34.2 | 94.2 |
| 47 | 37.7 | 2.7 | 62.7 |

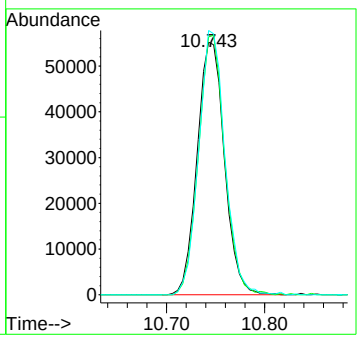





#59
trichloroethene
Concen: 13.73 ug/L
RT: 10.743 min Scan# 1403
Delta R.T. -0.001 min
Lab File: 2a220447.d
Acq: 30 Sep 2022 1:40 pm

Tgt Ion: 95 Resp: 106906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 102.1 | 71.9 | 131.9 |
| 132 | 104.7 | 64.7 | 124.7 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220449.d
Acq On : 30 Sep 2022 2:37 pm
Operator : nicoleh
Sample : jd52514-12 Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,50
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 21:17:44 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

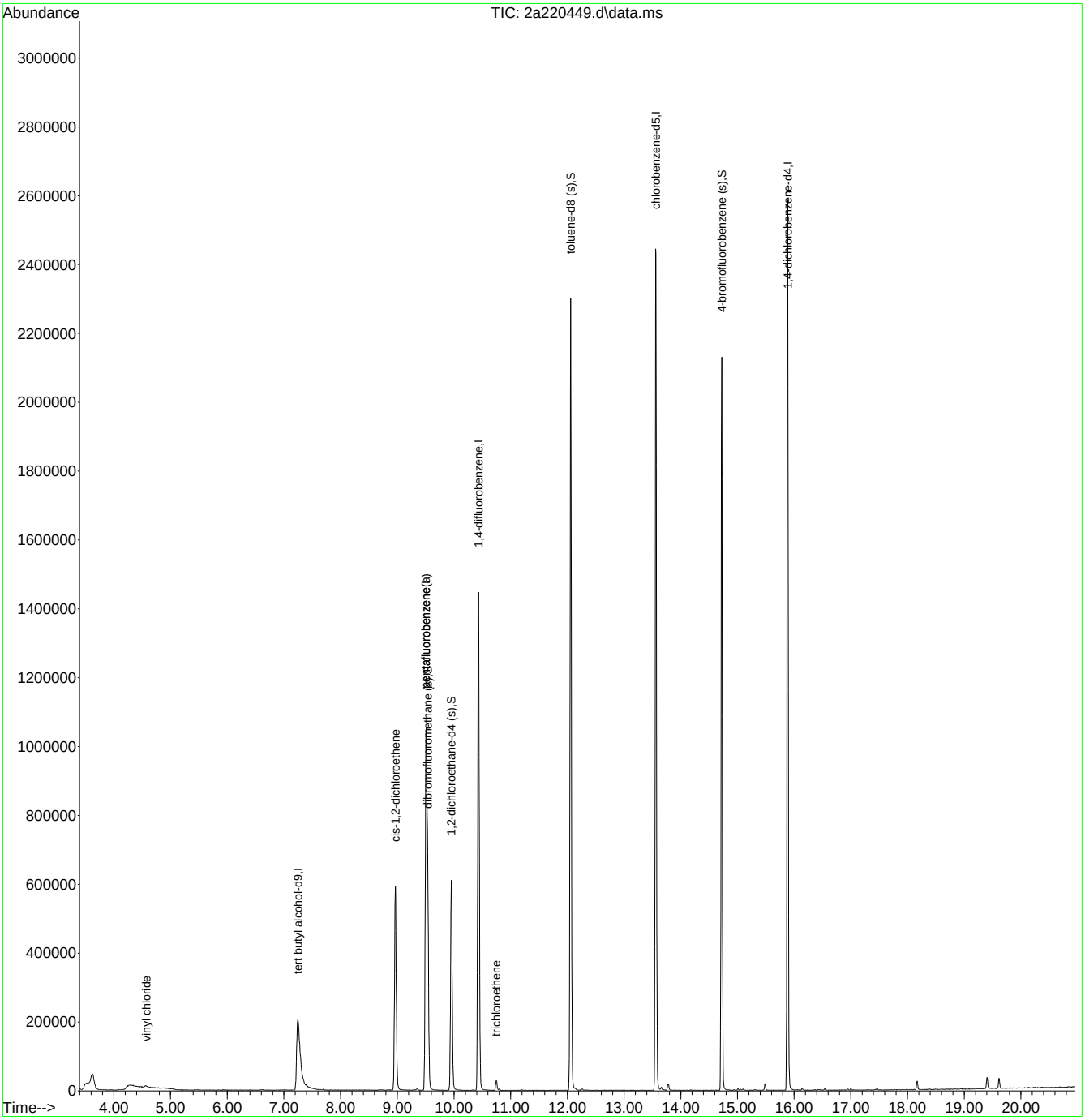
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.246 | 65 | 543649 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.505 | 168 | 751354 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.433 | 114 | 1182718 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.563 | 117 | 1224970 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 611807 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.505 | 168 | 751063 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 383741 | 54.26 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 108.52% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.951 | 65 | 456929 | 41.56 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 83.12% | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 1379031 | 45.95 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 91.90% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 616465 | 54.47 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 108.94% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 4.572 | 62 | 7134 | 0.71 | ug/L | 55 |
| 36) cis-1,2-dichloroethene | 8.965 | 96 | 282433 | 40.65 | ug/L | 96 |
| 59) trichloroethene | 10.743 | 95 | 9912 | 1.24 | ug/L | 90 |

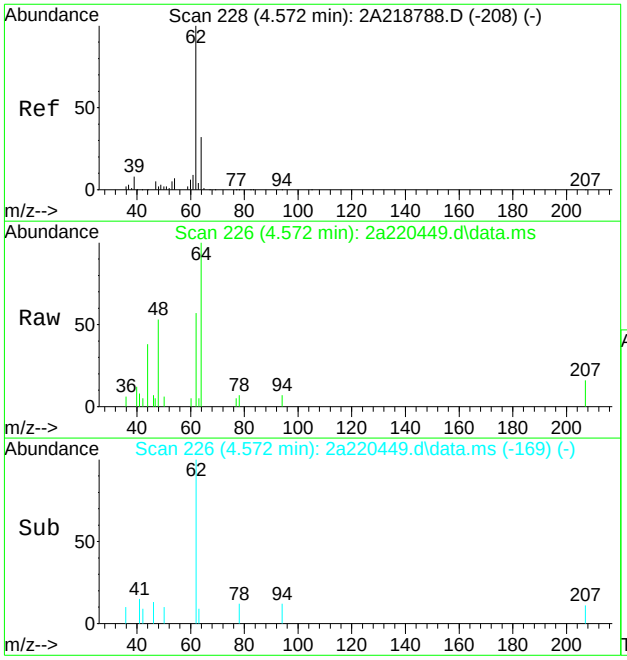
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220449.d
Acq On : 30 Sep 2022 2:37 pm
Operator : nicoleh
Sample : jd52514-12 Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,50
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 21:17:44 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

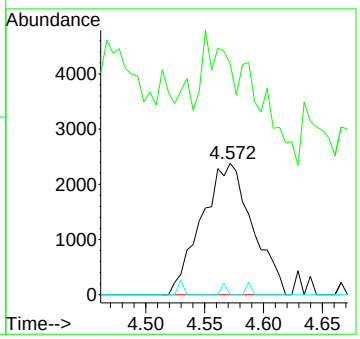


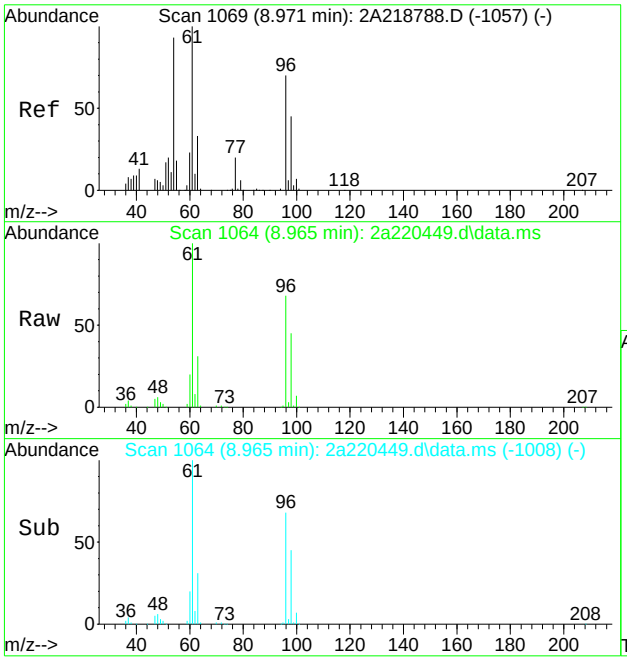



#9
vinyl chloride
Concen: 0.71 ug/L
RT: 4.572 min Scan# 226
Delta R.T. -0.001 min
Lab File: 2a220449.d
Acq: 30 Sep 2022 2:37 pm

Tgt Ion: 62 Resp: 7134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 60.2 | 2.1 | 62.1 |
| 61 | 0.0 | 0.0 | 38.8 |

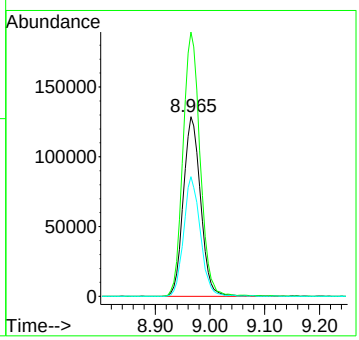


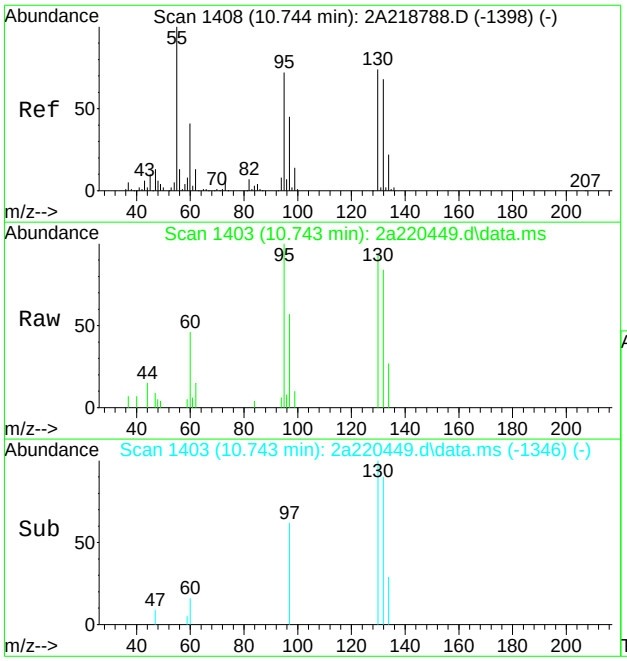




#36
cis-1,2-dichloroethene
Concen: 40.65 ug/L
RT: 8.965 min Scan# 1064
Delta R.T. -0.006 min
Lab File: 2a220449.d
Acq: 30 Sep 2022 2:37 pm

Tgt Ion: 96 Resp: 282433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 147.1 | 122.7 | 182.7 |
| 98 | 66.6 | 34.0 | 94.0 |

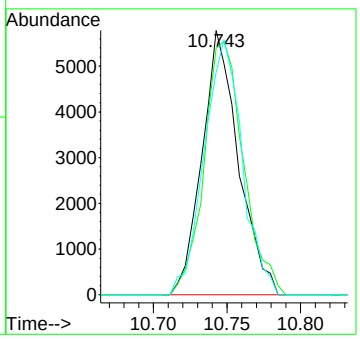





#59
trichloroethene
Concen: 1.24 ug/L
RT: 10.743 min Scan# 1403
Delta R.T. -0.001 min
Lab File: 2a220449.d
Acq: 30 Sep 2022 2:37 pm

Tgt Ion: 95 Resp: 9912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 93.3 | 71.9 | 131.9 |
| 132 | 84.1 | 64.7 | 124.7 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121701.d
Acq On : 29 Sep 2022 11:10 pm
Operator : taylors
Sample : jd52514-13 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 20:41:09 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

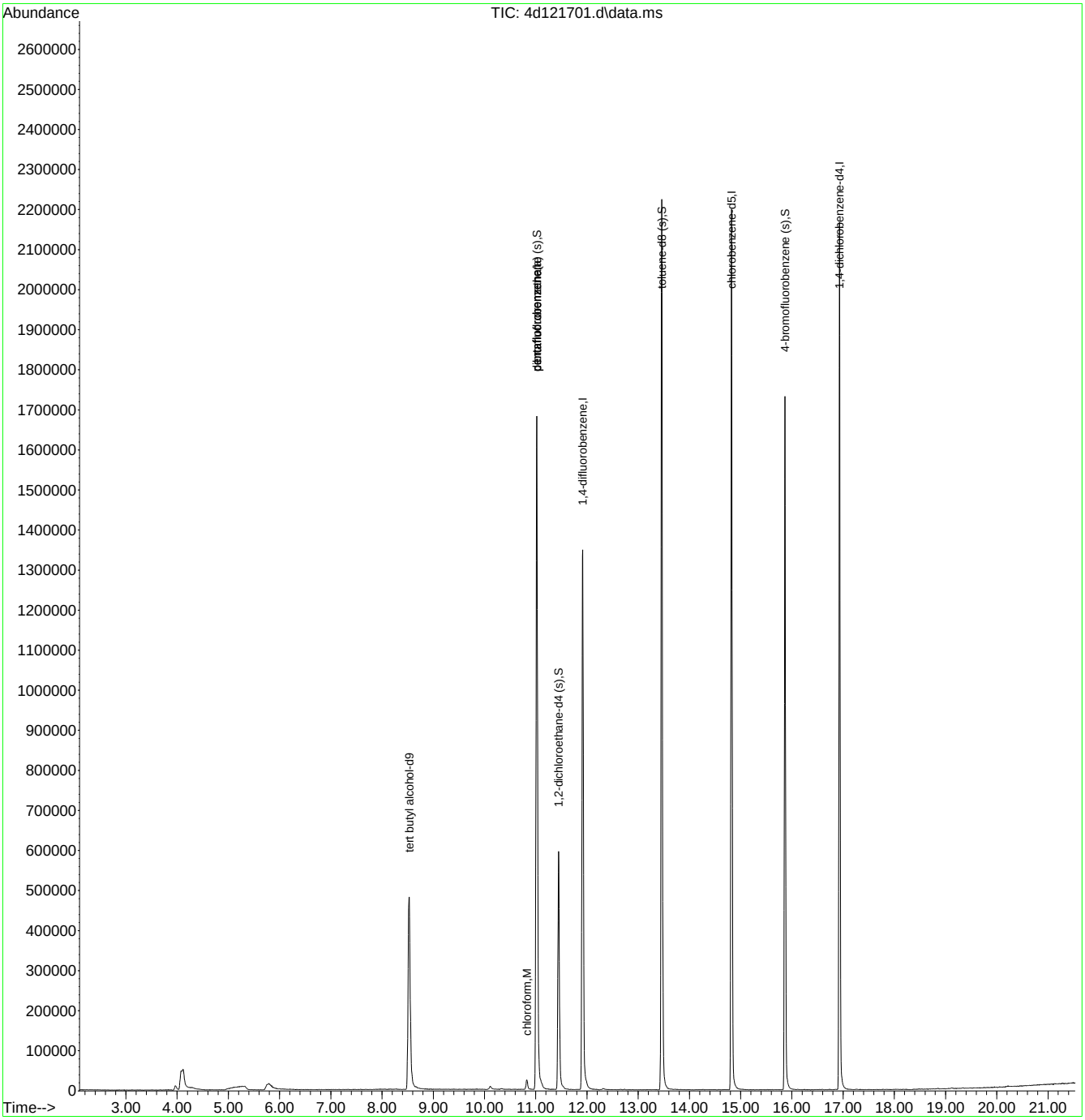
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 8.531 | 65 | 751403 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 11.021 | 168 | 835119 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 11.918 | 114 | 1200581 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 14.822 | 117 | 1187071 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.930 | 152 | 534478 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 11.021 | 168 | 835119 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 11.021 | 113 | 421835 | 53.30 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.60% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.446 | 65 | 452687 | 49.01 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.02% | | | |
| 74) toluene-d8 (s) | 13.459 | 98 | 1437232 | 50.24 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.48% | | | |
| 97) 4-bromofluorobenzene (s) | 15.866 | 95 | 533404 | 48.87 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.74% | | | |
| Target Compounds | | | | | | Qvalue |
| 41) chloroform | 10.827 | 85 | 14154 | 1.56 | ug/L | 93 |

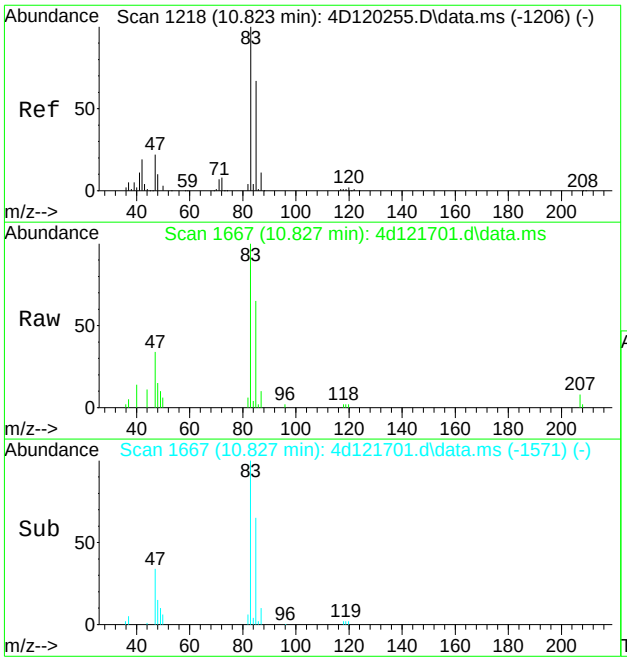
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121701.d
Acq On : 29 Sep 2022 11:10 pm
Operator : taylors
Sample : jd52514-13 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 20:41:09 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

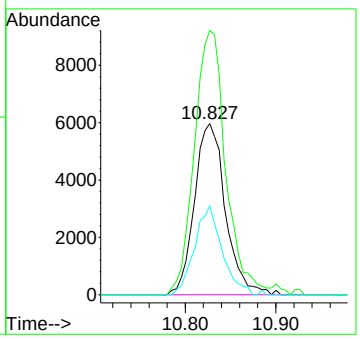





#41
chloroform
Concen: 1.56 ug/L
RT: 10.827 min Scan# 1667
Delta R.T. 0.004 min
Lab File: 4d121701.d
Acq: 29 Sep 2022 11:10 pm

Tgt Ion: 85 Resp: 14154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 83 | 154.3 | 119.7 | 179.7 |
| 47 | 52.1 | 10.2 | 70.2 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121700.d
Acq On : 29 Sep 2022 10:41 pm
Operator : taylors
Sample : mb Inst : MS4D
Misc : MS46075,V4D5406,5,,,,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 20:39:18 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

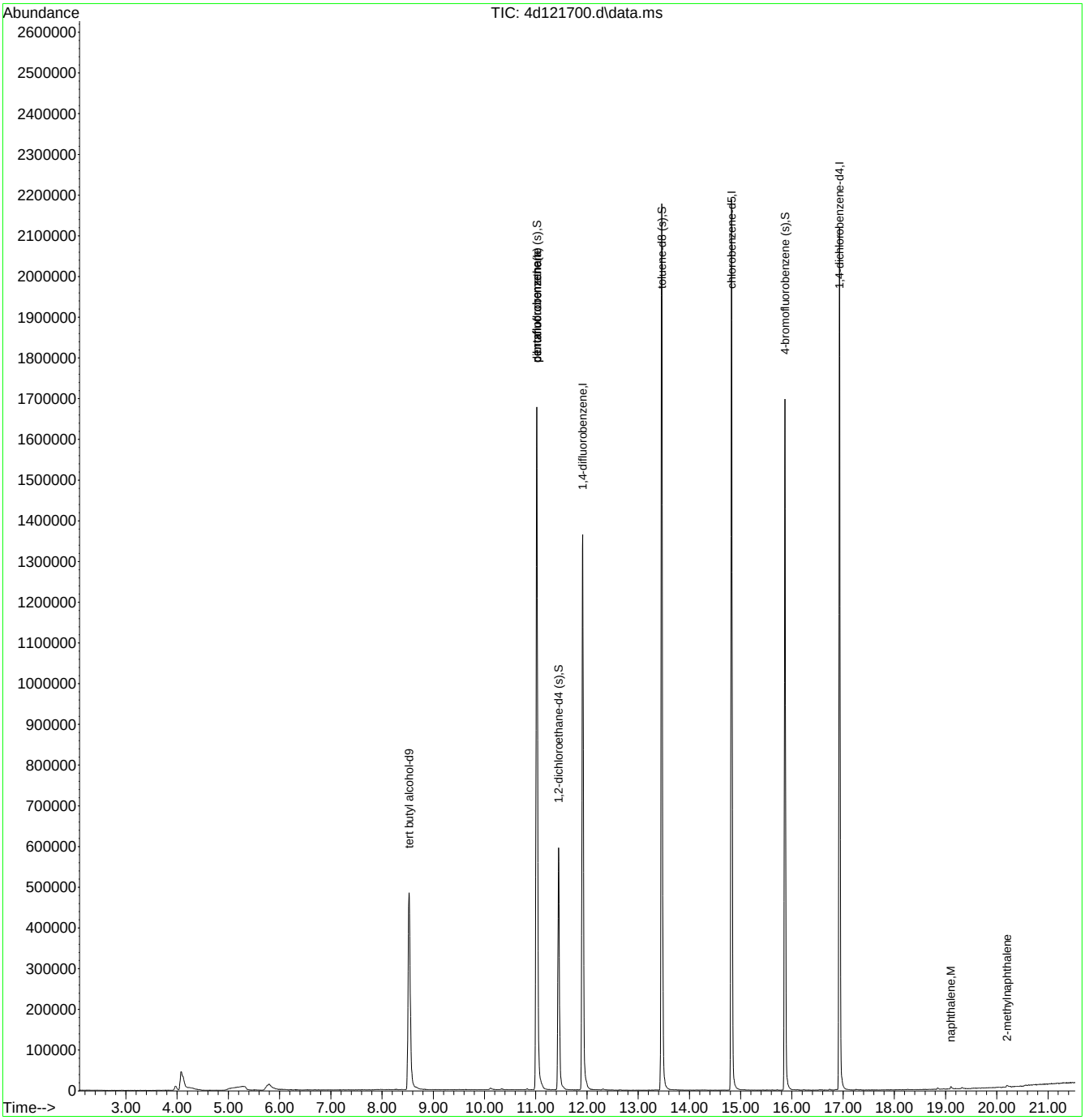
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 8.525 | 65 | 760648 | 500.00 | ug/L | -0.01 |
| 5) pentafluorobenzene | 11.021 | 168 | 839510 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 11.918 | 114 | 1200091 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 14.822 | 117 | 1184427 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.930 | 152 | 536302 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 11.021 | 168 | 839510 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 11.021 | 113 | 416805 | 52.38 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.76% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.446 | 65 | 449931 | 48.73 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 97.46% | | | |
| 74) toluene-d8 (s) | 13.459 | 98 | 1421782 | 49.81 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.62% | | | |
| 97) 4-bromofluorobenzene (s) | 15.866 | 95 | 531753 | 48.55 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.10% | | | |
| Target Compounds | | | | | | Qvalue |
| 120) naphthalene | 19.101 | 128 | 7934 | 0.37 | ug/L | 97 |
| 123) 2-methylnaphthalene | 20.202 | 142 | 4031 | 0.65 | ug/L | 97 |

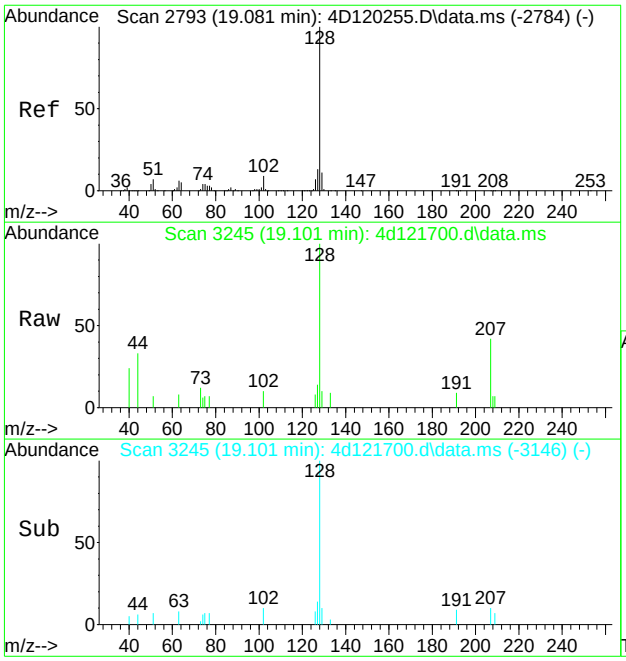
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121700.d
Acq On : 29 Sep 2022 10:41 pm
Operator : taylors
Sample : mb Inst : MS4D
Misc : MS46075,V4D5406,5,,,,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 20:39:18 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

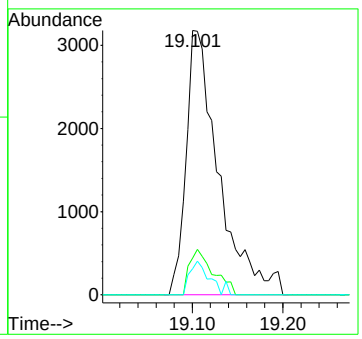


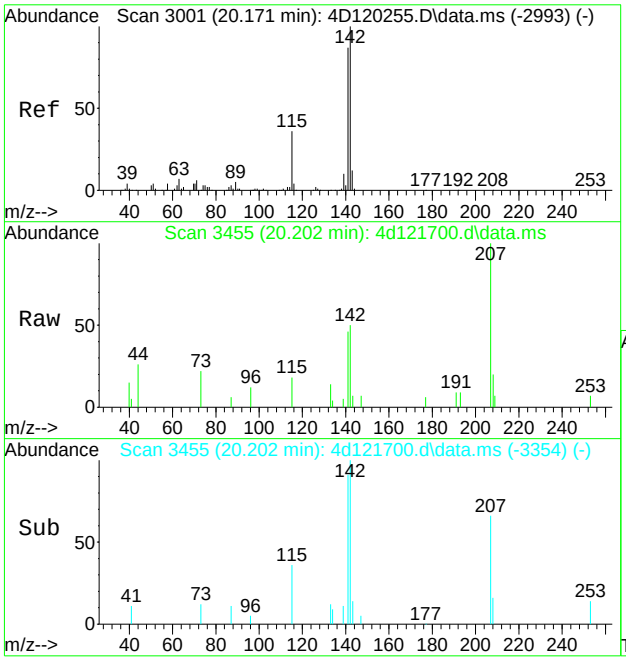



#120
naphthalene
Concen: 0.37 ug/L
RT: 19.101 min Scan# 3245
Delta R.T. 0.020 min
Lab File: 4d121700.d
Acq: 29 Sep 2022 10:41 pm

Tgt Ion:128 Resp: 7934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 14.0 | 0.0 | 42.6 |
| 129 | 9.9 | 0.0 | 41.0 |

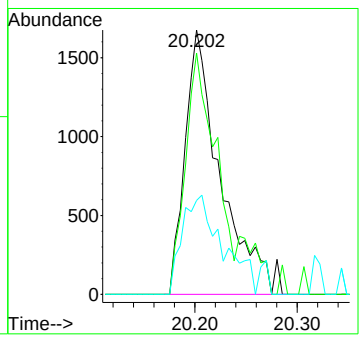



#123
2-methylnaphthalene
Concen: 0.65 ug/L
RT: 20.202 min Scan# 3455
Delta R.T. 0.031 min
Lab File: 4d121700.d
Acq: 29 Sep 2022 10:41 pm

Tgt Ion:142 Resp: 4031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.2 | 67.2 | 107.2 |
| 115 | 35.5 | 15.6 | 55.6 |



Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220442.d
Acq On : 30 Sep 2022 11:18 am
Operator : nicoleh
Sample : mb Inst : GCMS2A
Misc : MS62546,V2A9583,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 20:36:55 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

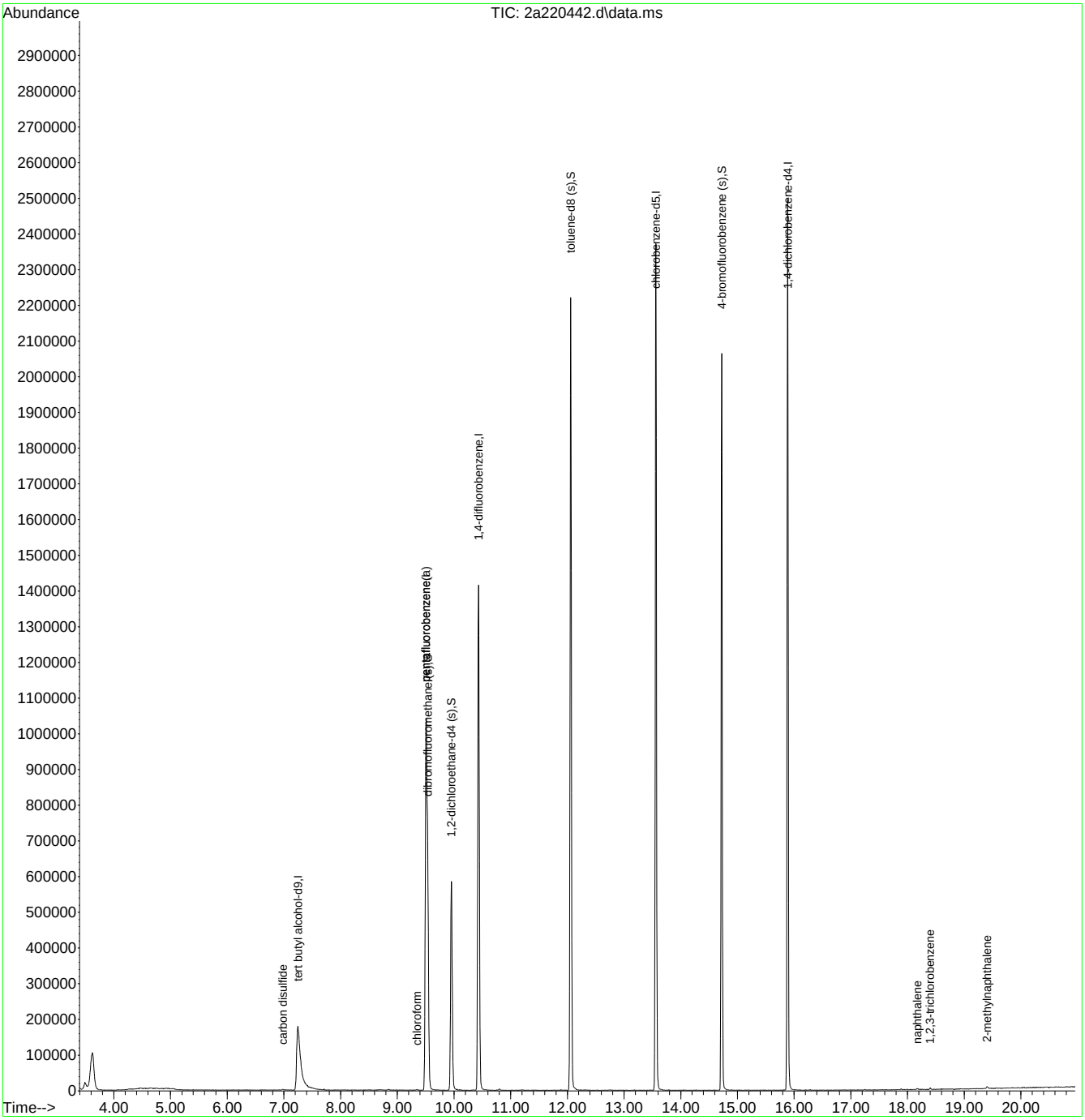
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.246 | 65 | 499433 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.505 | 168 | 738634 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.433 | 114 | 1157020 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.563 | 117 | 1184465 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 576964 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.505 | 168 | 738109 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 380735 | 54.76 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 109.52% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.951 | 65 | 445144 | 41.38 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 82.76% | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 1335343 | 46.02 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.04% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 588872 | 55.17 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 110.34% | | | |
| Target Compounds | | | | | | Qvalue |
| 21) carbon disulfide | 6.978 | 76 | 5073 | 0.28 | ug/L | 82 |
| 40) chloroform | 9.343 | 83 | 1660 | 0.13 | ug/L # | 63 |
| 120) naphthalene | 18.172 | 128 | 3451 | 0.13 | ug/L | 81 |
| 121) 1,2,3-trichlorobenzene | 18.397 | 180 | 1813 | 0.18 | ug/L | 76 |
| 123) 2-methylnaphthalene | 19.404 | 142 | 3607 | 0.27 | ug/L # | 77 |

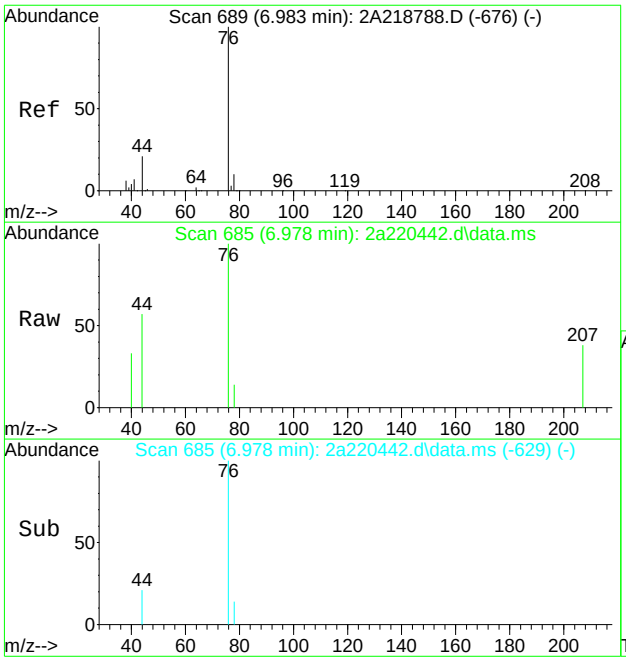
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220442.d
Acq On : 30 Sep 2022 11:18 am
Operator : nicoleh
Sample : mb Inst : GCMS2A
Misc : MS62546,V2A9583,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 20:36:55 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

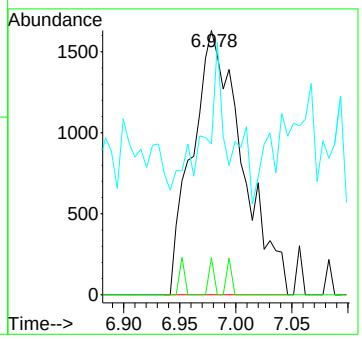


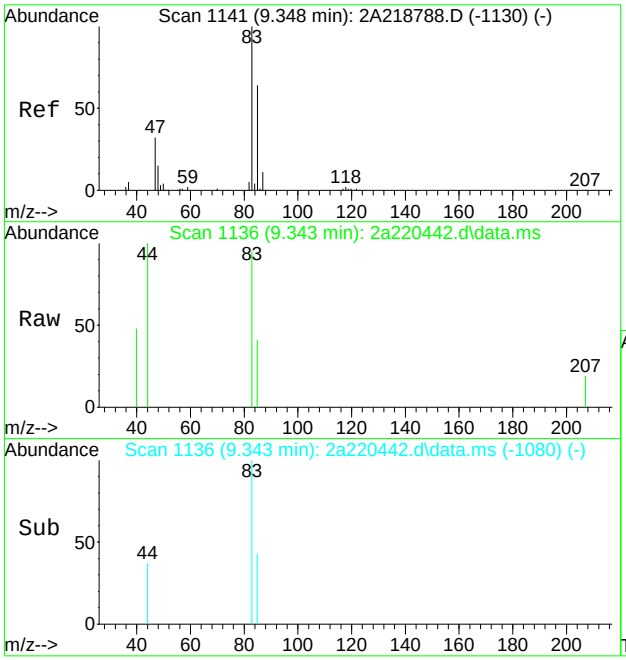



#21
carbon disulfide
Concen: 0.28 ug/L
RT: 6.978 min Scan# 685
Delta R.T. -0.005 min
Lab File: 2a220442.d
Acq: 30 Sep 2022 11:18 am

Tgt Ion: 76 Resp: 5073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 14.2 | 0.0 | 39.5 |
| 44 | 11.2 | 0.0 | 50.6 |

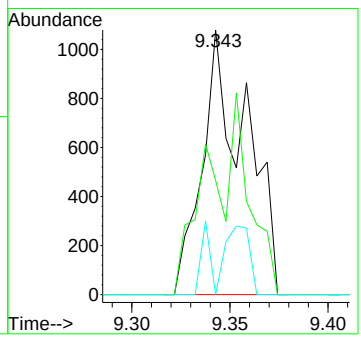


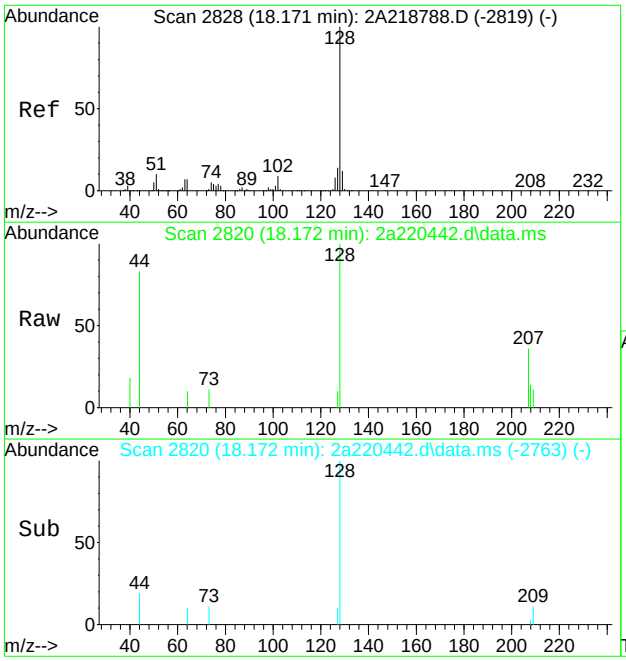




#40
chloroform
Concen: 0.13 ug/L
RT: 9.343 min Scan# 1136
Delta R.T. -0.005 min
Lab File: 2a220442.d
Acq: 30 Sep 2022 11:18 am

Tgt Ion: 83 Resp: 1660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 43.1 | 34.2 | 94.2 |
| 47 | 0.0 | 2.7 | 62.7# |

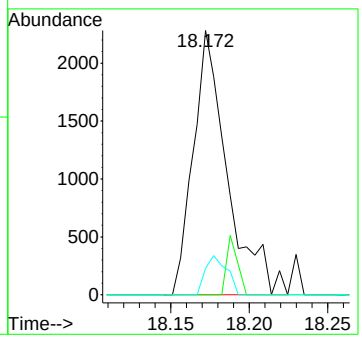


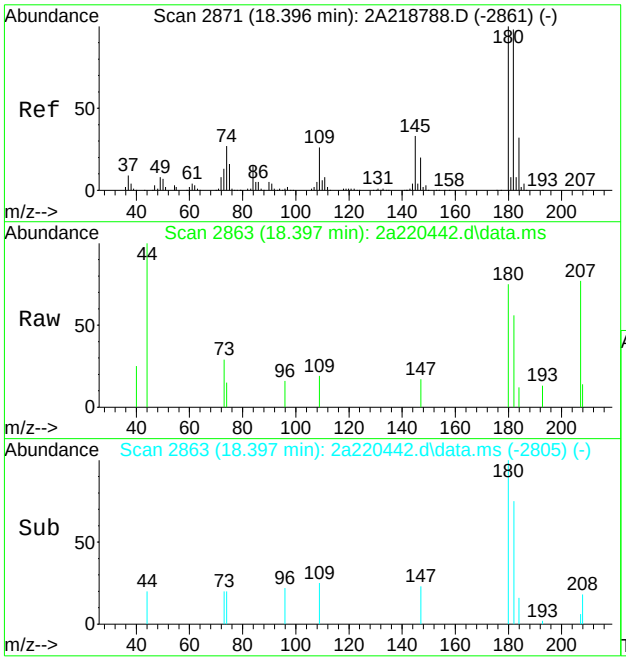



#120
naphthalene
Concen: 0.13 ug/L
RT: 18.172 min Scan# 2820
Delta R.T. 0.001 min
Lab File: 2a220442.d
Acq: 30 Sep 2022 11:18 am

Tgt Ion:128 Resp: 3451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 0.0 | 0.0 | 41.7 |
| 127 | 10.0 | 0.0 | 43.8 |

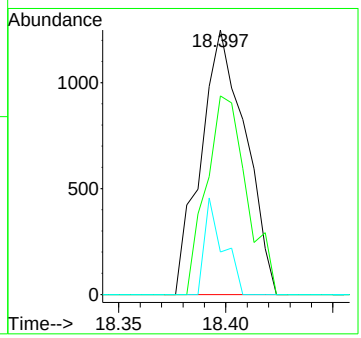


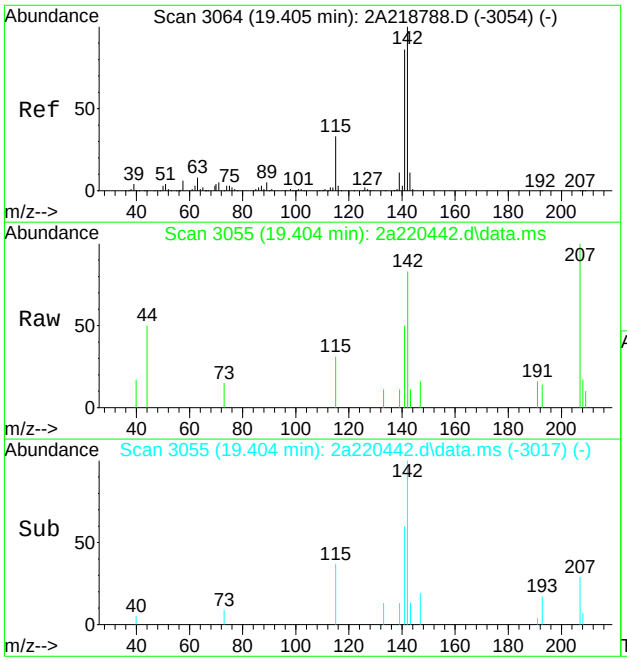




#121
1,2,3-trichlorobenzene
Concen: 0.18 ug/L
RT: 18.397 min Scan# 2863
Delta R.T. 0.002 min
Lab File: 2a220442.d
Acq: 30 Sep 2022 11:18 am

Tgt Ion:180 Resp: 1813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 75.1 | 67.7 | 127.7 |
| 184 | 16.0 | 2.1 | 62.1 |

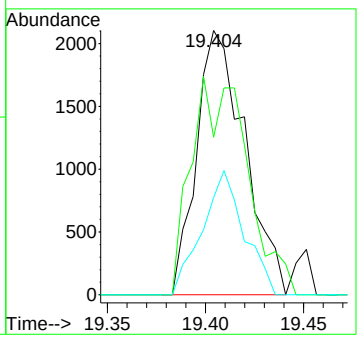





#123
2-methylnaphthalene
Concen: 0.27 ug/L
RT: 19.404 min Scan# 3055
Delta R.T. -0.001 min
Lab File: 2a220442.d
Acq: 30 Sep 2022 11:18 am

Tgt Ion:142 Resp: 3607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 59.6 | 66.1 | 106.1# |
| 115 | 36.8 | 12.9 | 52.9 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200647.d
Acq On : 30 Sep 2022 11:21 am
Operator : taylors
Sample : mb Inst : ACC-VOA-MSX
Misc : MS62612,V1X8639,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:41:45 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

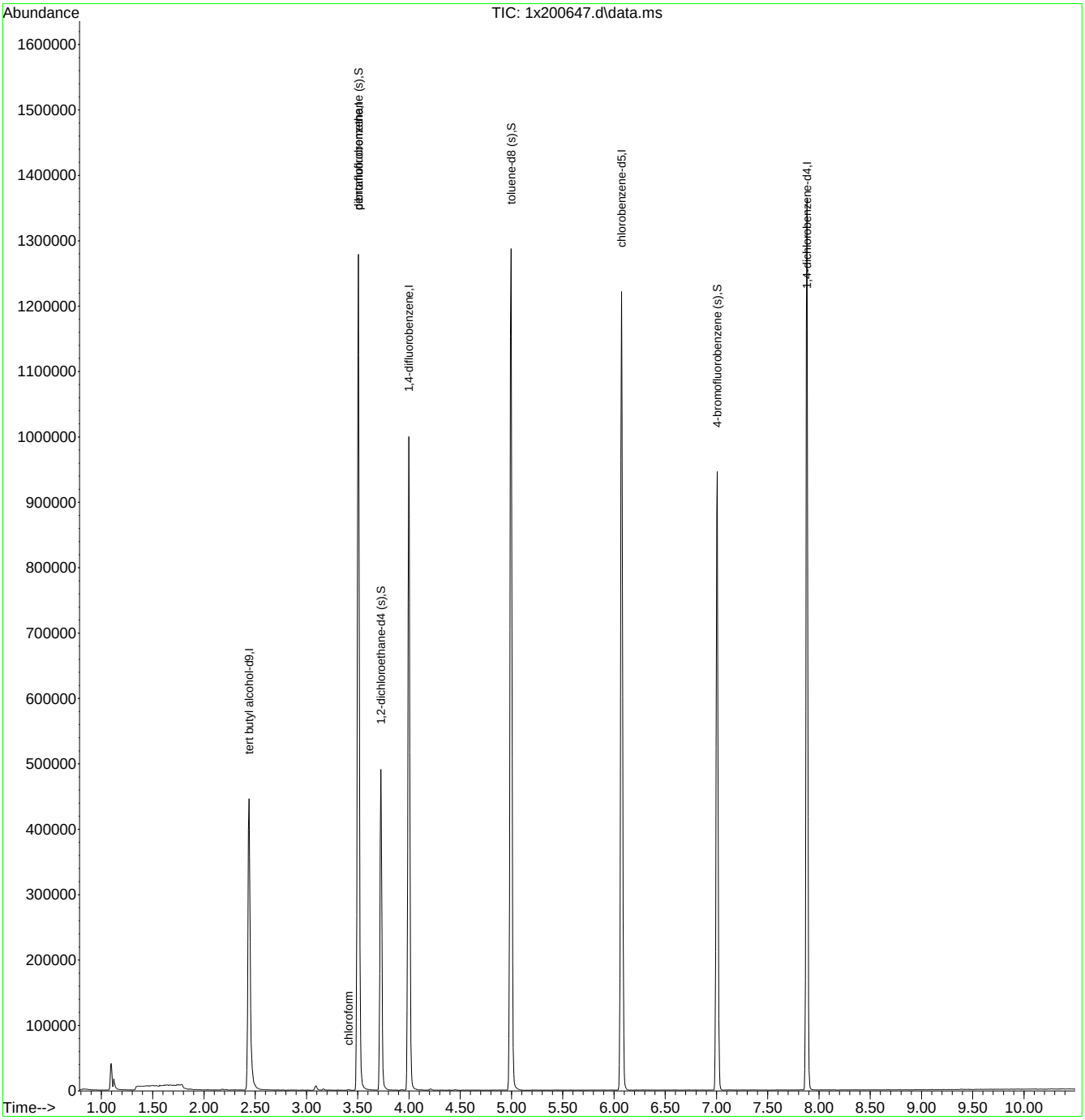
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.439 | 65 | 354438 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.507 | 168 | 419042 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 3.998 | 114 | 584708 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.074 | 117 | 536154 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 266708 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.507 | 113 | 188387 | 47.66 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.32% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.726 | 65 | 218965 | 48.99 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 97.98% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 638864 | 49.81 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.62% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 232193 | 50.15 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.30% | | | |
| Target Compounds | | | | | | Qvalue |
| 42) chloroform | 3.411 | 83 | 616 | 0.14 | ug/L | 90 |

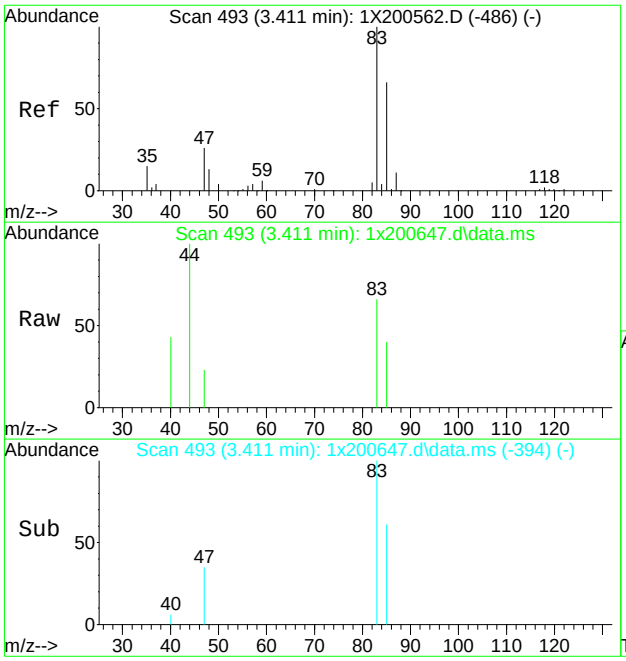
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200647.d
Acq On : 30 Sep 2022 11:21 am
Operator : taylors
Sample : mb Inst : ACC-VOA-MSX
Misc : MS62612,V1X8639,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:41:45 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

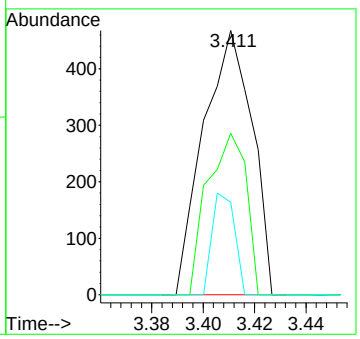





#42
chloroform
Concen: 0.14 ug/L
RT: 3.411 min Scan# 493
Delta R.T. -0.000 min
Lab File: 1x200647.d
Acq: 30 Sep 2022 11:21 am

Tgt Ion: 83 Resp: 616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.1 | 36.3 | 96.3 |
| 47 | 35.0 | 0.0 | 56.2 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347772.d
Acq On : 3 Oct 2022 1:17 pm
Operator : nicoleh
Sample : mb Inst : GCMSL
Misc : MS46075,VL10517,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 03 23:54:54 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

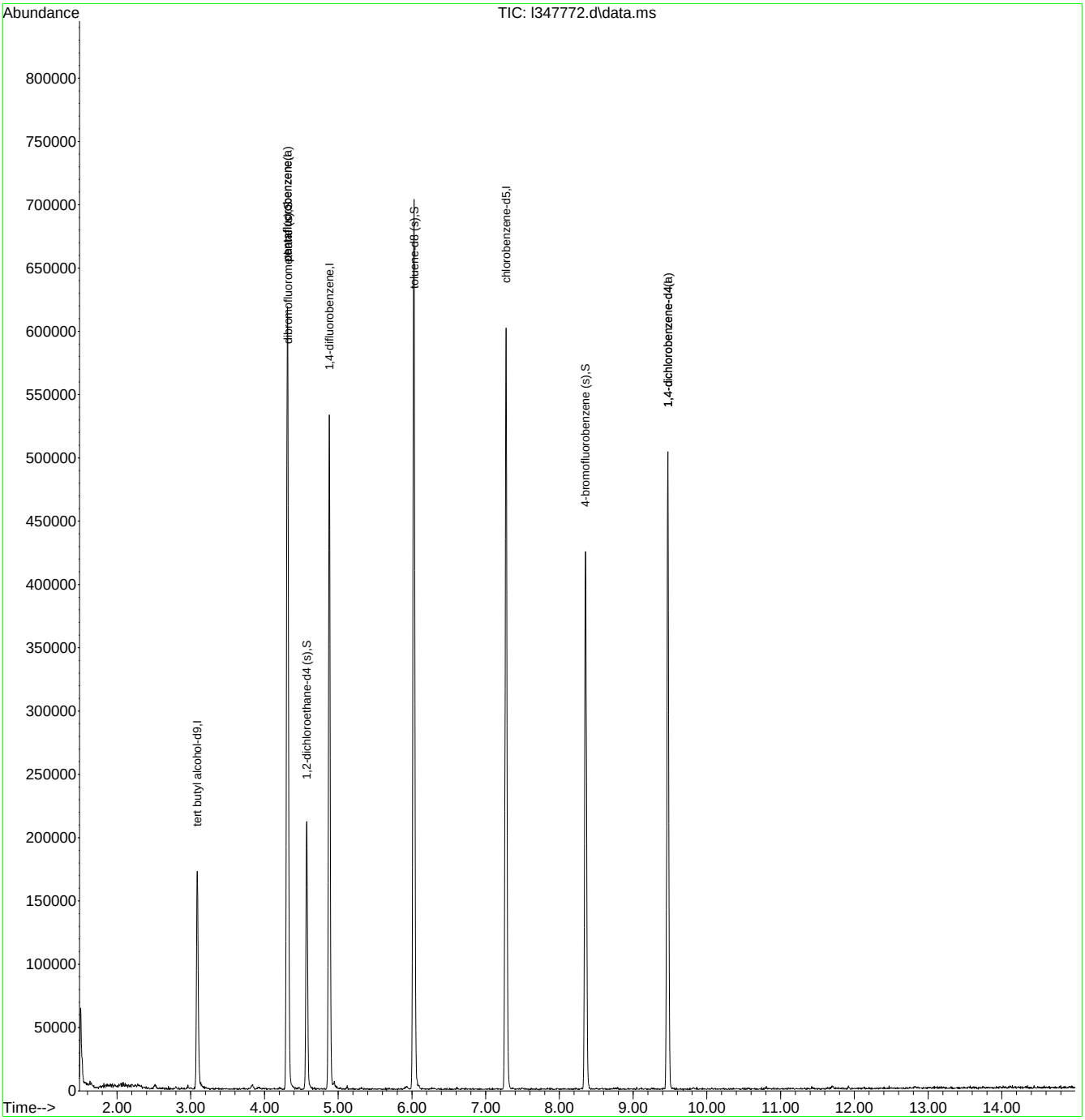
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.088 | 65 | 173165 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.311 | 168 | 256447 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.879 | 114 | 370598 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 332001 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.471 | 152 | 138862 | 50.00 | ug/L | 0.00 |
| 123) pentafluorobenzene(a) | 4.311 | 168 | 255478 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.471 | 152 | 139067 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.317 | 113 | 112874 | 48.73 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.46% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.571 | 65 | 129449 | 47.86 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 95.72% | | | |
| 73) toluene-d8 (s) | 6.028 | 98 | 455128 | 49.81 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.62% | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 163071 | 45.08 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 90.16% | | | |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347772.d
Acq On : 3 Oct 2022 1:17 pm
Operator : nicoleh
Sample : mb Inst : GCMSL
Misc : MS46075,VL10517,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 03 23:54:54 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121698.d
Acq On : 29 Sep 2022 9:42 pm
Operator : taylors
Sample : bs Inst : MS4D
Misc : MS62508,V4D5406,5,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 07:22:07 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 8.536 | 65 | 745113 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 11.021 | 168 | 787644 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 11.912 | 114 | 1136670 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 14.822 | 117 | 1125127 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.930 | 152 | 513948 | 50.00 | ug/L | | 0.00 |
| 124) pentafluorobenzene(a) | 11.021 | 168 | 787644 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 11.016 | 113 | 397395 | 53.23 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.46% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.446 | 65 | 406663 | 46.50 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 93.00% | | | | |
| 74) toluene-d8 (s) | 13.459 | 98 | 1323777 | 48.82 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.64% | | | | |
| 97) 4-bromofluorobenzene (s) | 15.866 | 95 | 501385 | 47.77 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.54% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) tertiary butyl alcohol | 8.662 | 59 | 554974 | 260.55 | ug/L | | 97 |
| 3) ethanol | 7.068 | 45 | 1284914 | 6249.66 | ug/L | | 99 |
| 4) 1,4-dioxane | 12.573 | 88 | 226862 | 1206.46 | ug/L | | 91 |
| 6) chlorodifluoromethane | 4.588 | 51 | 438808 | 50.66 | ug/L | | 95 |
| 7) dichlorodifluoromethane | 4.541 | 85 | 370538 | 36.79 | ug/L | | 99 |
| 8) chloromethane | 5.039 | 50 | 333094 | 39.11 | ug/L | | 100 |
| 9) vinyl chloride | 5.280 | 62 | 320762 | 38.37 | ug/L | | 97 |
| 10) 1,3-butadiene | 5.380 | 54 | 279646 | 36.71 | ug/L | | 100 |
| 11) bromomethane | 6.040 | 94 | 188335 | 37.55 | ug/L | | 95 |
| 12) chloroethane | 6.281 | 64 | 199938 | 45.50 | ug/L | | 98 |
| 13) trichlorofluoromethane | 6.848 | 101 | 530861 | 44.88 | ug/L | | 99 |
| 14) ethyl ether | 7.372 | 74 | 190204 | 53.67 | ug/L | | 80 |
| 15) acrolein | 7.576 | 56 | 101700 | 68.24 | ug/L | | 96 |
| 16) freon 113 | 7.823 | 151 | 287066 | 51.24 | ug/L | | 99 |
| 17) 1,1-dichloroethene | 7.828 | 96 | 292337 | 47.07 | ug/L | | 98 |
| 18) acetone | 7.823 | 58 | 230666 | 316.73 | ug/L | # | 83 |
| 19) acetonitrile | 8.258 | 41 | 1013707 | 811.00 | ug/L | | 99 |
| 20) iodomethane | 8.111 | 142 | 353660 | 33.85 | ug/L | | 95 |
| 21) carbon disulfide | 8.274 | 76 | 850717 | 48.88 | ug/L | | 99 |
| 22) methylene chloride | 8.594 | 84 | 338043 | 50.74 | ug/L | | 86 |
| 23) methyl acetate | 8.394 | 43 | 487283 | 78.99 | ug/L | | 94 |
| 24) methyl tert butyl ether | 9.034 | 73 | 1020725 | 52.80 | ug/L | | 93 |
| 25) trans-1,2-dichloroethene | 9.055 | 96 | 327952 | 47.94 | ug/L | | 93 |
| 26) di-isopropyl ether | 9.721 | 45 | 1302790 | 63.55 | ug/L | | 95 |
| 27) 2-butanone | 10.392 | 72 | 281134 | 267.03 | ug/L | # | 61 |
| 28) 1,1-dichloroethane | 9.653 | 63 | 614892 | 54.31 | ug/L | | 96 |
| 29) chloroprene | 9.805 | 53 | 522026 | 61.07 | ug/L | | 91 |
| 30) acrylonitrile | 8.913 | 53 | 211648 | 77.01 | ug/L | | 99 |
| 31) hexane | 9.480 | 56 | 234850 | 59.38 | ug/L | | 88 |
| 32) vinyl acetate | 9.663 | 86 | 83460 | 58.68 | ug/L | # | 54 |
| 33) ethyl tert-butyl ether | 10.219 | 59 | 1160159 | 58.01 | ug/L | | 96 |
| 34) ethyl acetate | 10.455 | 70 | 61556 | 60.57 | ug/L | # | 71 |
| 35) 2,2-dichloropropane | 10.471 | 77 | 447036 | 44.05 | ug/L | | 93 |
| 36) cis-1,2-dichloroethene | 10.439 | 96 | 367399 | 48.49 | ug/L | | 95 |
| 37) methyl acrylate | 10.533 | 55 | 501599 | 71.36 | ug/L | | 95 |
| 38) propionitrile | 10.439 | 54 | 1046116 | 818.52 | ug/L | | 99 |
| 39) bromochloromethane | 10.754 | 128 | 209283 | 54.19 | ug/L | | 92 |
| 40) tetrahydrofuran | 10.827 | 72 | 82278 | 59.15 | ug/L | # | 76 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121698.d
Acq On : 29 Sep 2022 9:42 pm
Operator : taylors
Sample : bs Inst : MS4D
Misc : MS62508,V4D5406,5,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 07:22:07 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) chloroform | 10.822 | 85 | 399126 | 46.51 | ug/L | | 95 |
| 42) t-butyl formate | 10.900 | 59 | 378821 | 64.60 | ug/L | | 94 |
| 44) methacrylonitrile | 10.675 | 67 | 202522 | 63.46 | ug/L | | 85 |
| 45) 1,1,1-trichloroethane | 11.131 | 97 | 545088 | 49.80 | ug/L | | 97 |
| 46) cyclohexane | 11.247 | 84 | 356925 | 41.87 | ug/L | # | 54 |
| 47) 1,1-dichloropropene | 11.315 | 75 | 428331 | 50.02 | ug/L | | 99 |
| 48) isobutyl alcohol | 11.315 | 74 | 29864 | 471.47 | ug/L | | 52 |
| 49) carbon tetrachloride | 11.351 | 117 | 516356 | 49.68 | ug/L | | 99 |
| 50) tert amyl alcohol | 11.399 | 55 | 191177 | 420.34 | ug/L | | 92 |
| 53) n-butyl alcohol | 11.986 | 56 | 1503952 | 4342.01 | ug/L | | 97 |
| 54) 2,2,4-trimethylpentane | 11.650 | 57 | 800989 | 49.02 | ug/L | | 98 |
| 55) benzene | 11.566 | 78 | 1211601 | 46.36 | ug/L | | 99 |
| 56) tert-amyl methyl ether | 11.634 | 87 | 246104 | 48.54 | ug/L | | 94 |
| 57) heptane | 11.808 | 71 | 149983 | 40.71 | ug/L | | 87 |
| 58) isopropyl acetate | 11.493 | 87 | 100634 | 53.92 | ug/L | # | 63 |
| 59) 1,2-dichloroethane | 11.535 | 62 | 519001 | 46.38 | ug/L | | 96 |
| 60) trichloroethene | 12.253 | 130 | 397853 | 50.40 | ug/L | | 97 |
| 61) ethyl acrylate | 12.243 | 55 | 696678 | 64.52 | ug/L | | 97 |
| 62) 2-nitropropane | 12.898 | 43 | 219731 | 63.47 | ug/L | | 96 |
| 63) 2-chloroethyl vinyl ether | 12.956 | 63 | 1408048 | 388.26 | ug/L | | 98 |
| 64) methyl methacrylate | 12.494 | 100 | 125163 | 55.72 | ug/L | # | 86 |
| 65) 1,2-dichloropropane | 12.473 | 63 | 365417 | 51.75 | ug/L | | 97 |
| 66) dibromomethane | 12.599 | 93 | 259898 | 46.74 | ug/L | | 99 |
| 67) methylcyclohexane | 12.510 | 83 | 458872 | 47.79 | ug/L | | 91 |
| 68) bromodichloromethane | 12.720 | 83 | 502407 | 47.65 | ug/L | | 98 |
| 69) epichlorohydrin | 13.040 | 57 | 367285 | 370.94 | ug/L | | 95 |
| 70) cis-1,3-dichloropropene | 13.160 | 75 | 565669 | 49.64 | ug/L | | 98 |
| 71) 4-methyl-2-pentanone | 13.255 | 58 | 930455 | 262.54 | ug/L | | 87 |
| 72) 3-methyl-1-butanol | 13.244 | 70 | 485474 | 1513.28 | ug/L | # | 77 |
| 75) toluene | 13.527 | 92 | 783675 | 45.26 | ug/L | | 98 |
| 76) trans-1,3-dichloropropene | 13.658 | 75 | 537604 | 49.47 | ug/L | | 99 |
| 77) ethyl methacrylate | 13.690 | 69 | 507403 | 52.10 | ug/L | | 88 |
| 78) 1,1,2-trichloroethane | 13.852 | 83 | 299409 | 51.58 | ug/L | | 97 |
| 79) tetrachloroethene | 14.073 | 164 | 296556 | 42.38 | ug/L | | 96 |
| 80) 1,3-dichloropropane | 14.020 | 76 | 544781 | 49.66 | ug/L | | 82 |
| 81) 2-hexanone | 14.025 | 58 | 1032536 | 282.38 | ug/L | | 92 |
| 82) butyl acetate | 14.109 | 56 | 340033 | 66.66 | ug/L | | 99 |
| 83) dibromochloromethane | 14.261 | 129 | 481421 | 50.67 | ug/L | | 100 |
| 84) 1,2-dibromoethane | 14.408 | 107 | 422482 | 53.88 | ug/L | | 95 |
| 85) n-butyl ether | 14.812 | 57 | 1563137 | 55.80 | ug/L | | 95 |
| 86) chlorobenzene | 14.848 | 112 | 962383 | 47.79 | ug/L | | 94 |
| 87) 1,1,1,2-tetrachloroethane | 14.896 | 131 | 394366 | 48.79 | ug/L | | 97 |
| 88) ethylbenzene | 14.917 | 91 | 1468265 | 45.66 | ug/L | | 98 |
| 89) m,p-xylene | 15.011 | 106 | 1162800 | 93.42 | ug/L | | 97 |
| 90) o-xylene | 15.389 | 106 | 584608 | 46.87 | ug/L | | 93 |
| 91) styrene | 15.389 | 104 | 1013574 | 48.21 | ug/L | | 93 |
| 92) bromoform | 15.593 | 173 | 368268 | 50.43 | ug/L | | 99 |
| 93) butyl acrylate | 15.215 | 55 | 906772 | 64.00 | ug/L | | 96 |
| 94) isopropylbenzene | 15.708 | 105 | 1447739 | 46.73 | ug/L | | 97 |
| 95) cis-1,4-dichloro-2-butene | 15.714 | 88 | 153683 | 49.82 | ug/L | | 93 |
| 98) bromobenzene | 16.044 | 156 | 430679 | 45.53 | ug/L | | 90 |
| 99) 1,1,2,2-tetrachloroethane | 15.918 | 83 | 538761 | 52.12 | ug/L | | 97 |
| 100) trans-1,4-dichloro-2-b... | 15.960 | 53 | 131968 | 66.12 | ug/L | | 94 |
| 101) 1,2,3-trichloropropane | 15.991 | 110 | 159231 | 51.14 | ug/L | | 99 |
| 102) n-propylbenzene | 16.075 | 91 | 1592075 | 46.07 | ug/L | | 97 |
| 103) 2-chlorotoluene | 16.196 | 126 | 380319 | 47.86 | ug/L | | 93 |
| 104) 4-chlorotoluene | 16.285 | 91 | 1010045 | 44.70 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121698.d
Acq On : 29 Sep 2022 9:42 pm
Operator : taylors
Sample : bs Inst : MS4D
Misc : MS62508,V4D5406,5,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 07:22:07 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

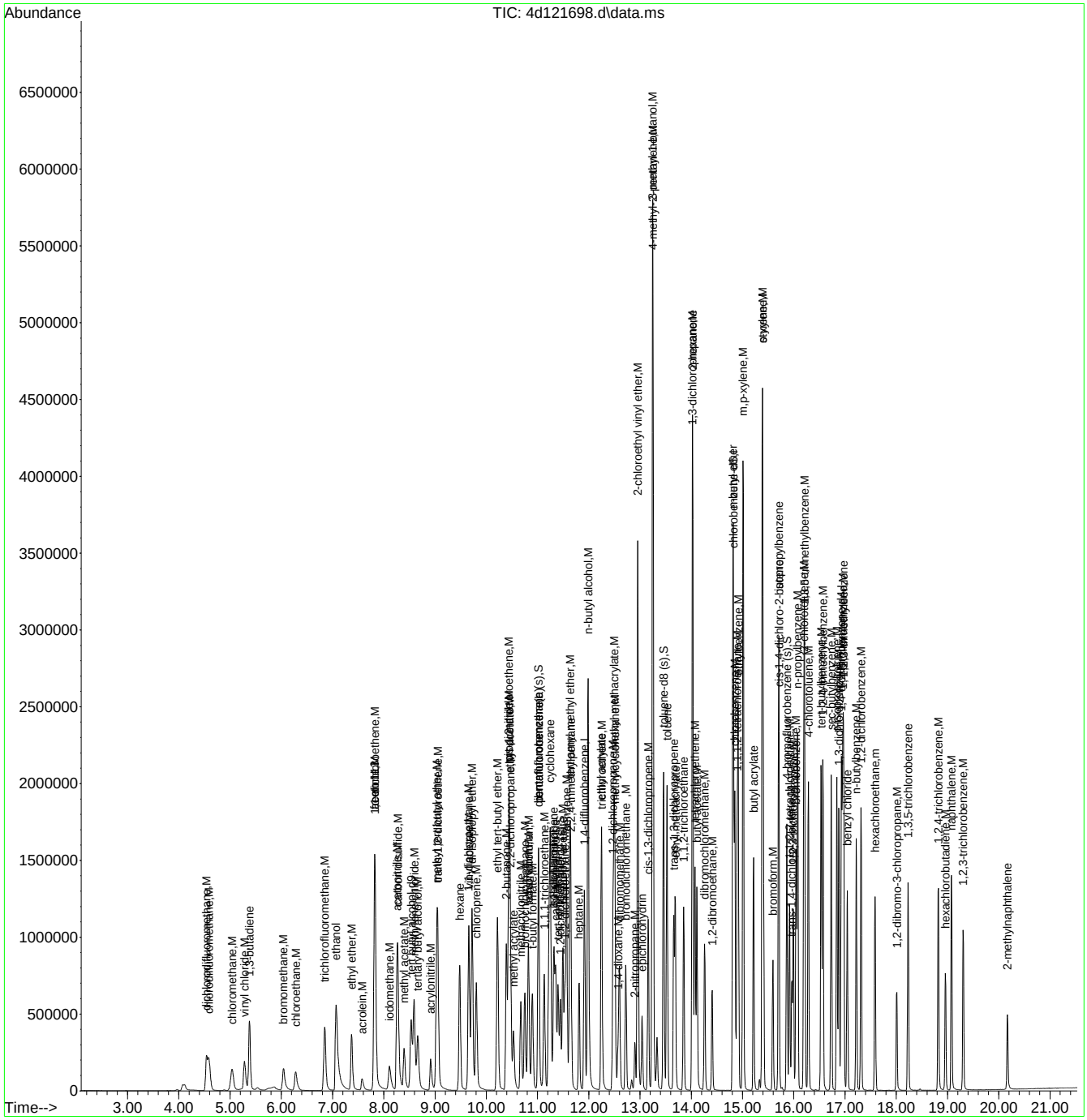
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 105) 1,3,5-trimethylbenzene | 16.212 | 105 | 1095096 | 44.81 ug/L | 97 |
| 106) tert-butylbenzene | 16.537 | 134 | 228955 | 47.39 ug/L | 95 |
| 107) 1,2,4-trimethylbenzene | 16.568 | 105 | 1079437 | 43.90 ug/L | 97 |
| 108) sec-butylbenzene | 16.731 | 105 | 1304467 | 46.65 ug/L | 98 |
| 109) 1,3-dichlorobenzene | 16.883 | 146 | 730257 | 46.58 ug/L | 99 |
| 110) p-isopropyltoluene | 16.841 | 119 | 1106824 | 48.02 ug/L | 97 |
| 111) 1,4-dichlorobenzene | 16.956 | 146 | 736473 | 44.53 ug/L | 96 |
| 112) 1,2,3-trimethylbenzene | 16.972 | 105 | 1075266 | 44.49 ug/L | 96 |
| 113) benzyl chloride | 17.045 | 91 | 821805 | 47.21 ug/L | 97 |
| 114) 1,2-dichlorobenzene | 17.313 | 146 | 724978 | 49.05 ug/L | 98 |
| 115) n-butylbenzene | 17.218 | 92 | 450667 | 42.40 ug/L | 97 |
| 116) 1,2-dibromo-3-chloropr... | 18.010 | 157 | 173678 | 61.49 ug/L | 96 |
| 117) 1,3,5-trichlorobenzene | 18.230 | 180 | 408563 | 47.05 ug/L | 94 |
| 118) 1,2,4-trichlorobenzene | 18.823 | 180 | 349506 | 48.50 ug/L | 97 |
| 119) hexachlorobutadiene | 18.959 | 225 | 141530 | 43.43 ug/L | 96 |
| 120) naphthalene | 19.080 | 128 | 1086552 | 53.07 ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 19.305 | 180 | 313168 | 53.01 ug/L | 95 |
| 122) hexachloroethane | 17.585 | 201 | 196464 | 42.82 ug/L | 98 |
| 123) 2-methylnaphthalene | 20.170 | 142 | 245786 | 41.58 ug/L | 95 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121698.d
Acq On : 29 Sep 2022 9:42 pm
Operator : taylors
Sample : bs Inst : MS4D
Misc : MS62508,V4D5406,5,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 07:22:07 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220440.d
Acq On : 30 Sep 2022 10:21 am
Operator : nicoleh
Sample : bs Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 30 10:58:56 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.251 | 65 | 506821 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.511 | 168 | 750798 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.439 | 114 | 1166077 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.564 | 117 | 1159944 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 604684 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.511 | 168 | 750798 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.542 | 113 | 379869 | 53.75 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 107.50% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.962 | 65 | 440198 | 40.61 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 81.22% | | | |
| 73) toluene-d8 (s) | 12.064 | 98 | 1335382 | 46.99 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.98% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 595618 | 53.25 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.50% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 5.977 | 45 | 454106 | 3677.85 | ug/L | 97 |
| 3) tertiary butyl alcohol | 7.366 | 59 | 286138 | 229.81 | ug/L | 86 |
| 4) 1,4-dioxane | 11.084 | 88 | 92005 | 1054.33 | ug/L | 92 |
| 6) chlorodifluoromethane | 3.995 | 51 | 278695 | 27.22 | ug/L | 97 |
| 7) dichlorodifluoromethane | 3.964 | 85 | 450741 | 44.69 | ug/L | 98 |
| 8) chloromethane | 4.352 | 50 | 573009 | 43.91 | ug/L | 99 |
| 9) vinyl chloride | 4.572 | 62 | 475209 | 47.61 | ug/L | 98 |
| 10) 1,3-butadiene | 4.624 | 54 | 204959 | 23.05 | ug/L | 97 |
| 11) bromomethane | 5.196 | 94 | 321390 | 54.60 | ug/L | 99 |
| 12) chloroethane | 5.358 | 64 | 275828 | 58.37 | ug/L | 92 |
| 13) trichlorofluoromethane | 5.788 | 101 | 579559 | 51.83 | ug/L | 95 |
| 14) ethyl ether | 6.192 | 74 | 194915 | 54.71 | ug/L | 94 |
| 15) acrolein | 6.417 | 56 | 92871 | 58.24 | ug/L | 94 |
| 16) freon 113 | 6.622 | 151 | 273068 | 51.38 | ug/L | 96 |
| 17) 1,1-dichloroethene | 6.606 | 96 | 277376 | 49.79 | ug/L | 95 |
| 18) acetone | 6.606 | 43 | 587320 | 203.46 | ug/L | 94 |
| 19) acetonitrile | 7.020 | 41 | 587786 | 493.42 | ug/L | 96 |
| 20) iodomethane | 6.853 | 142 | 551719 | 50.74 | ug/L | 92 |
| 21) carbon disulfide | 6.989 | 76 | 898917 | 48.71 | ug/L | 92 |
| 22) methylene chloride | 7.303 | 84 | 355016 | 53.78 | ug/L | 94 |
| 23) methyl acetate | 7.062 | 43 | 361688 | 50.27 | ug/L | 99 |
| 24) methyl tert butyl ether | 7.660 | 73 | 1066452 | 53.69 | ug/L | 97 |
| 25) trans-1,2-dichloroethene | 7.691 | 96 | 342600 | 54.27 | ug/L | 98 |
| 26) hexane | 8.043 | 57 | 598714 | 53.36 | ug/L | 98 |
| 27) di-isopropyl ether | 8.258 | 45 | 1554530 | 56.53 | ug/L | 98 |
| 28) ethyl tert-butyl ether | 8.714 | 59 | 1359531 | 56.81 | ug/L | 98 |
| 29) 2-butanone | 8.908 | 72 | 181860 | 234.07 | ug/L | 92 |
| 30) 1,1-dichloroethane | 8.263 | 63 | 682382 | 55.28 | ug/L | 98 |
| 31) chloroprene | 8.363 | 53 | 620252 | 52.91 | ug/L | 93 |
| 32) acrylonitrile | 7.587 | 53 | 184463 | 57.92 | ug/L | 94 |
| 33) vinyl acetate | 8.200 | 86 | 73606 | 63.22 | ug/L # | 64 |
| 34) ethyl acetate | 8.924 | 45 | 77848 | 53.97 | ug/L | 94 |
| 35) 2,2-dichloropropane | 9.002 | 77 | 542114 | 54.95 | ug/L | 99 |
| 36) cis-1,2-dichloroethene | 8.971 | 96 | 391624 | 56.40 | ug/L | 97 |
| 37) propionitrile | 8.981 | 54 | 651956 | 548.86 | ug/L | 90 |
| 38) bromochloromethane | 9.264 | 130 | 259751 | 56.27 | ug/L | 100 |
| 39) tetrahydrofuran | 9.285 | 42 | 150956 | 45.83 | ug/L | 95 |
| 40) chloroform | 9.353 | 83 | 659386 | 51.41 | ug/L | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220440.d
Acq On : 30 Sep 2022 10:21 am
Operator : nicoleh
Sample : bs Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 30 10:58:56 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) tert-butyl formate | 9.390 | 59 | 351937 | 56.43 | ug/L | | 96 |
| 42) isobutyl alcohol | 9.747 | 43 | 233911 | 470.58 | ug/L | | 94 |
| 44) methacrylonitrile | 9.175 | 67 | 167965 | 56.93 | ug/L | | 91 |
| 45) 1,1,1-trichloroethane | 9.610 | 97 | 588763 | 52.86 | ug/L | | 98 |
| 46) cyclohexane | 9.720 | 84 | 536747 | 57.68 | ug/L | | 93 |
| 47) 1,1-dichloropropene | 9.778 | 75 | 487765 | 54.39 | ug/L | | 97 |
| 48) tert-amyl alcohol | 9.909 | 73 | 120809 | 243.09 | ug/L | | 94 |
| 49) carbon tetrachloride | 9.804 | 117 | 519948 | 51.72 | ug/L | | 97 |
| 52) 2,2,4-trimethylpentane | 10.119 | 57 | 1545010 | 47.14 | ug/L | | 95 |
| 53) tert-amyl methyl ether | 10.108 | 73 | 1165570 | 48.53 | ug/L | | 99 |
| 54) n-butyl alcohol | 10.496 | 56 | 711520 | 2348.79 | ug/L | | 92 |
| 55) benzene | 10.025 | 78 | 1418556 | 51.27 | ug/L | | 97 |
| 56) heptane | 10.281 | 57 | 290280 | 43.41 | ug/L | | 98 |
| 57) isopropyl acetate | 9.941 | 87 | 86132 | 49.60 | ug/L | | 94 |
| 58) 1,2-dichloroethane | 10.046 | 62 | 581920 | 44.76 | ug/L | | 99 |
| 59) trichloroethene | 10.748 | 95 | 384828 | 48.65 | ug/L | | 95 |
| 60) ethyl acrylate | 10.738 | 55 | 632286 | 50.34 | ug/L | | 99 |
| 61) 2-nitropropane | 11.503 | 41 | 126654 | 38.36 | ug/L | | 89 |
| 62) 2-chloroethyl vinyl ether | 11.540 | 63 | 568558 | 146.68 | ug/L | | 99 |
| 63) methyl methacrylate | 11.005 | 100 | 102743 | 51.81 | ug/L | # | 79 |
| 64) 1,2-dichloropropane | 11.036 | 63 | 414941 | 50.55 | ug/L | | 94 |
| 65) methylcyclohexane | 11.047 | 83 | 604503 | 46.70 | ug/L | | 97 |
| 66) dibromomethane | 11.141 | 93 | 251169 | 46.61 | ug/L | | 95 |
| 67) bromodichloromethane | 11.299 | 83 | 529456 | 47.46 | ug/L | | 99 |
| 68) epichlorohydrin | 11.624 | 57 | 225713 | 230.38 | ug/L | | 98 |
| 69) cis-1,3-dichloropropene | 11.755 | 75 | 638522 | 52.29 | ug/L | | 86 |
| 70) 4-methyl-2-pentanone | 11.865 | 58 | 728434 | 188.19 | ug/L | | 96 |
| 71) 3-methyl-1-butanol | 11.870 | 70 | 217522 | 911.12 | ug/L | | 90 |
| 74) toluene | 12.137 | 92 | 866820 | 47.04 | ug/L | | 99 |
| 75) trans-1,3-dichloropropene | 12.321 | 75 | 569845 | 46.65 | ug/L | | 99 |
| 76) ethyl methacrylate | 12.316 | 69 | 511817 | 48.80 | ug/L | | 90 |
| 77) 1,1,2-trichloroethane | 12.541 | 83 | 283569 | 44.76 | ug/L | | 94 |
| 78) 2-hexanone | 12.709 | 58 | 681622 | 176.82 | ug/L | | 91 |
| 79) tetrachloroethene | 12.688 | 166 | 421000 | 45.89 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 12.719 | 76 | 546460 | 44.96 | ug/L | | 97 |
| 81) butyl acetate | 12.788 | 56 | 306154 | 46.22 | ug/L | | 94 |
| 82) dibromochloromethane | 12.961 | 129 | 417909 | 45.20 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.113 | 107 | 349611 | 44.56 | ug/L | | 96 |
| 84) n-butyl ether | 13.564 | 57 | 1625656 | 44.53 | ug/L | | 97 |
| 85) chlorobenzene | 13.595 | 112 | 946697 | 47.11 | ug/L | | 97 |
| 86) 1,1,1,2-tetrachloroethane | 13.663 | 131 | 368525 | 45.60 | ug/L | | 98 |
| 87) ethylbenzene | 13.658 | 91 | 1553371 | 44.96 | ug/L | | 95 |
| 88) m,p-xylene | 13.779 | 106 | 1183166 | 88.10 | ug/L | | 94 |
| 89) o-xylene | 14.177 | 91 | 1242046 | 44.05 | ug/L | | 96 |
| 90) styrene | 14.188 | 104 | 969986 | 44.39 | ug/L | | 98 |
| 91) n-amyl acetate | 14.224 | 70 | 247236 | 43.35 | ug/L | | 89 |
| 92) bromoform | 14.413 | 173 | 303059 | 45.58 | ug/L | | 97 |
| 93) butyl acrylate | 14.014 | 55 | 890956 | 45.81 | ug/L | | 99 |
| 94) isopropylbenzene | 14.528 | 105 | 1463518 | 43.52 | ug/L | | 99 |
| 95) cis-1,4-dichloro-2-butene | 14.565 | 88 | 132051 | 36.48 | ug/L | | 94 |
| 98) bromobenzene | 14.906 | 156 | 425658 | 43.98 | ug/L | | 93 |
| 99) 1,1,2,2-tetrachloroethane | 14.806 | 83 | 442335 | 43.04 | ug/L | | 100 |
| 100) trans-1,4-dichloro-2-b... | 14.838 | 53 | 115605 | 33.79 | ug/L | | 88 |
| 101) 1,2,3-trichloropropane | 14.890 | 110 | 106681 | 40.34 | ug/L | | 96 |
| 102) n-propylbenzene | 14.937 | 91 | 1777636 | 45.80 | ug/L | | 98 |
| 103) 2-chlorotoluene | 15.068 | 126 | 380525 | 45.05 | ug/L | | 93 |
| 104) 4-chlorotoluene | 15.184 | 91 | 1108269 | 44.90 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220440.d
Acq On : 30 Sep 2022 10:21 am
Operator : nicoleh
Sample : bs Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 30 10:58:56 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

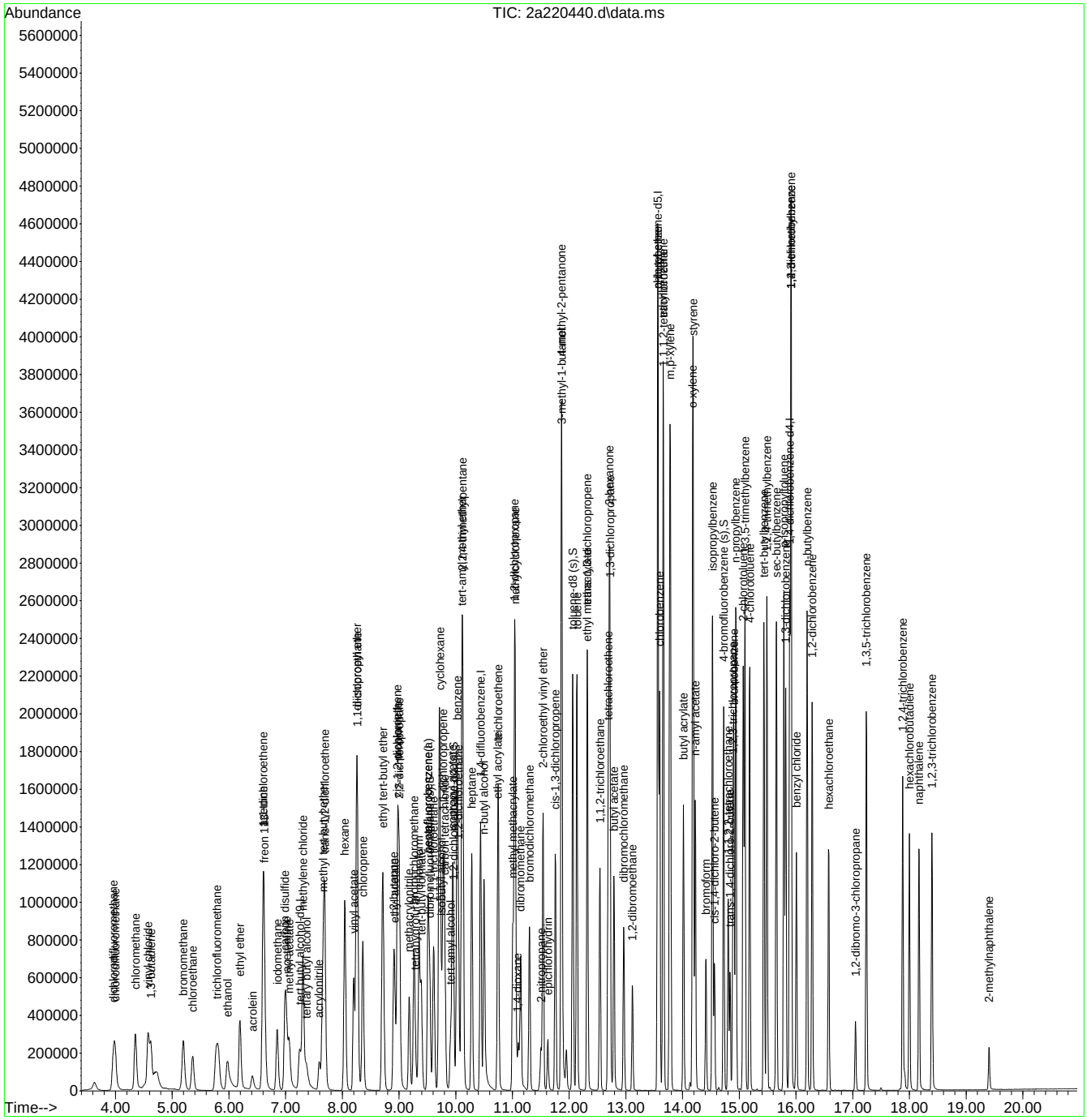
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 105) 1,3,5-trimethylbenzene | 15.100 | 105 | 1212199 | 44.97 | ug/L | 97 |
| 106) tert-butylbenzene | 15.435 | 119 | 1040486 | 44.55 | ug/L | 97 |
| 107) 1,2,4-trimethylbenzene | 15.488 | 105 | 1226929 | 44.68 | ug/L | 98 |
| 108) sec-butylbenzene | 15.656 | 105 | 1521647 | 43.70 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 15.818 | 146 | 752402 | 43.62 | ug/L | 98 |
| 110) p-isopropyltoluene | 15.787 | 119 | 1311761 | 44.17 | ug/L | 98 |
| 111) benzyl chloride | 16.007 | 91 | 758492 | 44.86 | ug/L | 99 |
| 112) 1,2,3-trimethylbenzene | 15.912 | 105 | 1228559 | 43.39 | ug/L | 97 |
| 113) 1,4-dichlorobenzene | 15.912 | 146 | 755594 | 42.12 | ug/L | 97 |
| 114) 1,2-dichlorobenzene | 16.285 | 146 | 729467 | 43.26 | ug/L | 97 |
| 115) n-butylbenzene | 16.196 | 92 | 678386 | 42.95 | ug/L | 98 |
| 116) 1,2-dibromo-3-chloropr... | 17.050 | 157 | 89100 | 39.94 | ug/L | 94 |
| 117) 1,3,5-trichlorobenzene | 17.239 | 180 | 588519 | 44.66 | ug/L | 98 |
| 118) 1,2,4-trichlorobenzene | 17.884 | 180 | 503426 | 44.42 | ug/L | 98 |
| 119) hexachlorobutadiene | 17.999 | 225 | 263571 | 45.19 | ug/L | 96 |
| 120) naphthalene | 18.167 | 128 | 926932 | 34.33 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 18.398 | 180 | 421176 | 39.47 | ug/L | 98 |
| 122) hexachloroethane | 16.578 | 201 | 209956 | 43.19 | ug/L | 98 |
| 123) 2-methylnaphthalene | 19.404 | 142 | 108023 | 7.85 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220440.d
Acq On : 30 Sep 2022 10:21 am
Operator : nicoleh
Sample : bs Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 30 10:58:56 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200645.d
Acq On : 30 Sep 2022 10:35 am
Operator : taylors
Sample : bs Inst : ACC-VOA-MSX
Misc : MS62564,V1X8639,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 30 10:47:59 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.440 | 65 | 384383 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.507 | 168 | 438711 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 3.998 | 114 | 606672 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.074 | 117 | 569714 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 284540 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.507 | 113 | 194928 | 47.10 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.20% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.726 | 65 | 223576 | 48.21 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 96.42% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 677232 | 49.70 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.40% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 242314 | 49.05 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.10% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 1.943 | 45 | 186794 | 5081.50 | ug/L | 96 |
| 3) tertiary butyl alcohol | 2.488 | 59 | 140103 | 240.91 | ug/L | 99 |
| 4) 1,4-dioxane | 4.377 | 88 | 59122 | 1278.96 | ug/L | 94 |
| 6) chlorodifluoromethane | 1.255 | 51 | 144698 | 38.68 | ug/L | 98 |
| 7) dichlorodifluoromethane | 1.239 | 85 | 137617 | 39.17 | ug/L | 99 |
| 8) chloromethane | 1.367 | 50 | 137872 | 37.60 | ug/L | 99 |
| 9) vinyl chloride | 1.431 | 62 | 153427 | 39.63 | ug/L | 99 |
| 10) bromomethane | 1.634 | 96 | 25082 | 46.71 | ug/L | 99 |
| 11) chloroethane | 1.703 | 64 | 61130 | 35.65 | ug/L | 99 |
| 12) trichlorofluoromethane | 1.858 | 101 | 212054 | 41.83 | ug/L | 98 |
| 13) 1,3-butadiene | 1.452 | 54 | 162887 | 52.69 | ug/L | 99 |
| 14) ethyl ether | 2.018 | 74 | 56965 | 44.18 | ug/L | 97 |
| 15) acrolein | 2.103 | 56 | 34122 | 46.79 | ug/L | 98 |
| 16) 1,1-dichloroethene | 2.167 | 96 | 109010 | 44.51 | ug/L | 98 |
| 17) freon 113 | 2.162 | 101 | 132738 | 44.44 | ug/L | 97 |
| 18) acetone | 2.183 | 58 | 71382 | 171.65 | ug/L | 98 |
| 19) acetonitrile | 2.349 | 41 | 259262 | 450.66 | ug/L | 99 |
| 20) iodomethane | 2.263 | 142 | 61132 | 54.41 | ug/L | 98 |
| 21) carbon disulfide | 2.317 | 76 | 263845 | 42.87 | ug/L | 98 |
| 22) methylene chloride | 2.456 | 84 | 102492 | 43.17 | ug/L | 98 |
| 23) methyl acetate | 2.360 | 43 | 155952 | 46.17 | ug/L | 100 |
| 24) methyl tert butyl ether | 2.605 | 73 | 315515 | 44.61 | ug/L | 98 |
| 25) acrylonitrile | 2.584 | 53 | 71110 | 45.36 | ug/L | 99 |
| 26) trans-1,2-dichloroethene | 2.616 | 96 | 116416 | 43.90 | ug/L | 96 |
| 27) hexane | 2.771 | 57 | 187508 | 44.82 | ug/L | 99 |
| 28) di-isopropyl ether | 2.872 | 45 | 401622 | 45.55 | ug/L | 96 |
| 29) 2-butanone | 3.192 | 72 | 87917 | 191.19 | ug/L # | 89 |
| 30) 1,1-dichloroethane | 2.872 | 63 | 198526 | 43.16 | ug/L | 100 |
| 31) chloroprene | 2.920 | 53 | 200109 | 45.98 | ug/L | 97 |
| 32) vinyl acetate | 2.856 | 86 | 25739 | 50.38 | ug/L # | 95 |
| 33) ethyl tert-butyl ether | 3.091 | 59 | 358988 | 45.59 | ug/L | 100 |
| 34) ethyl acetate | 3.203 | 45 | 34053 | 49.05 | ug/L | 94 |
| 35) 2,2-dichloropropane | 3.219 | 77 | 180427 | 47.25 | ug/L | 98 |
| 36) cis-1,2-dichloroethene | 3.213 | 96 | 125120 | 43.72 | ug/L | 96 |
| 37) methyl acrylate | 3.240 | 55 | 206396 | 47.70 | ug/L | 100 |
| 38) propionitrile | 3.235 | 54 | 305479 | 466.82 | ug/L | 84 |
| 39) tert-butyl formate | 3.427 | 59 | 82293 | 47.91 | ug/L | 95 |
| 40) bromochloromethane | 3.358 | 128 | 63815 | 43.71 | ug/L | 94 |
| 41) tetrahydrofuran | 3.368 | 42 | 66650 | 45.46 | ug/L | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200645.d
Acq On : 30 Sep 2022 10:35 am
Operator : taylors
Sample : bs Inst : ACC-VOA-MSX
Misc : MS62564,V1X8639,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 30 10:47:59 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 42) | chloroform | 3.411 | 83 | 201484 | 42.48 | ug/L | | 99 |
| 44) | methacrylonitrile | 3.326 | 67 | 66222 | 48.43 | ug/L | | 100 |
| 45) | 1,1,1-trichloroethane | 3.528 | 97 | 199889 | 44.08 | ug/L | | 98 |
| 46) | cyclohexane | 3.576 | 84 | 164902 | 39.78 | ug/L | | 94 |
| 47) | tert amyl alcohol | 3.715 | 55 | 56936 | 244.11 | ug/L | | 90 |
| 48) | 1,1-dichloropropene | 3.619 | 75 | 166739 | 44.74 | ug/L | | 97 |
| 49) | isobutyl alcohol | 3.811 | 42 | 26137 | 444.99 | ug/L | | 98 |
| 50) | carbon tetrachloride | 3.624 | 117 | 178634 | 44.59 | ug/L | | 98 |
| 51) | isopropyl acetate | 3.736 | 87 | 32093 | 50.33 | ug/L | | 98 |
| 54) | iso-octane | 3.806 | 57 | 394547 | 46.88 | ug/L | | 100 |
| 55) | epichlorohydrin | 4.724 | 57 | 111074 | 263.32 | ug/L | | 99 |
| 56) | n-butyl alcohol | 4.057 | 56 | 358171 | 2646.00 | ug/L | | 98 |
| 57) | benzene | 3.752 | 78 | 453318 | 44.54 | ug/L | | 99 |
| 58) | tert-amyl methyl ether | 3.811 | 73 | 327455 | 48.77 | ug/L | | 100 |
| 59) | heptane | 3.907 | 57 | 73219 | 48.25 | ug/L | | 99 |
| 60) | 1,2-dichloroethane | 3.774 | 62 | 165971 | 43.24 | ug/L | | 100 |
| 61) | trichloroethene | 4.163 | 130 | 145734 | 45.98 | ug/L | | 97 |
| 62) | ethyl acrylate | 4.190 | 55 | 208027 | 50.21 | ug/L | | 99 |
| 63) | 2-nitropropane | 4.644 | 41 | 51818 | 50.83 | ug/L | | 97 |
| 64) | 2-chloroethyl vinyl ether | 4.676 | 63 | 449359 | 254.85 | ug/L | | 98 |
| 65) | methyl methacrylate | 4.345 | 100 | 41527 | 50.33 | ug/L | # | 72 |
| 66) | 1,2-dichloropropane | 4.340 | 76 | 46866 | 47.11 | ug/L | | 98 |
| 67) | dibromomethane | 4.398 | 93 | 76070 | 44.16 | ug/L | | 95 |
| 68) | methylcyclohexane | 4.324 | 83 | 203563 | 47.71 | ug/L | | 98 |
| 69) | bromodichloromethane | 4.505 | 83 | 138365 | 47.09 | ug/L | | 99 |
| 70) | cis-1,3-dichloropropene | 4.799 | 75 | 167346 | 49.16 | ug/L | | 97 |
| 71) | 4-methyl-2-pentanone | 4.889 | 58 | 283730 | 203.53 | ug/L | | 97 |
| 72) | 3-methyl-1-butanol | 4.911 | 70 | 118726 | 1098.30 | ug/L | | 98 |
| 75) | toluene | 5.044 | 92 | 294725 | 47.24 | ug/L | | 97 |
| 76) | trans-1,3-dichloropropene | 5.193 | 75 | 154978 | 49.68 | ug/L | | 99 |
| 77) | ethyl methacrylate | 5.215 | 69 | 155419 | 49.47 | ug/L | | 97 |
| 78) | 1,1,2-trichloroethane | 5.343 | 83 | 89661 | 47.45 | ug/L | | 96 |
| 79) | tetrachloroethene | 5.418 | 164 | 120094 | 48.00 | ug/L | | 96 |
| 80) | 1,3-dichloropropane | 5.466 | 76 | 165254 | 45.65 | ug/L | | 99 |
| 81) | 2-hexanone | 5.487 | 58 | 289174 | 196.99 | ug/L | | 99 |
| 82) | butyl acetate | 5.562 | 56 | 97440 | 46.69 | ug/L | | 96 |
| 83) | dibromochloromethane | 5.631 | 129 | 123223 | 49.62 | ug/L | | 98 |
| 84) | 1,2-dibromoethane | 5.727 | 107 | 123084 | 48.82 | ug/L | | 98 |
| 85) | n-butyl ether | 6.149 | 57 | 479673 | 47.46 | ug/L | | 99 |
| 86) | chlorobenzene | 6.095 | 112 | 327319 | 46.25 | ug/L | | 98 |
| 87) | 1,1,1,2-tetrachloroethane | 6.159 | 131 | 119921 | 49.28 | ug/L | | 98 |
| 88) | ethylbenzene | 6.165 | 91 | 545903 | 45.67 | ug/L | | 100 |
| 89) | m,p-xylene | 6.266 | 106 | 434272 | 92.31 | ug/L | | 100 |
| 90) | o-xylene | 6.570 | 91 | 415257 | 46.47 | ug/L | | 98 |
| 91) | styrene | 6.586 | 104 | 353476 | 46.62 | ug/L | | 97 |
| 92) | butyl acrylate | 6.506 | 55 | 254900 | 49.74 | ug/L | | 99 |
| 93) | n-amyl acetate | 6.688 | 70 | 85000 | 49.86 | ug/L | | 95 |
| 94) | bromoform | 6.736 | 173 | 85202 | 51.67 | ug/L | | 97 |
| 95) | isopropylbenzene | 6.864 | 105 | 550498 | 47.26 | ug/L | | 99 |
| 96) | cis-1,4-dichloro-2-butene | 6.907 | 88 | 33226 | 30.06 | ug/L | | 99 |
| 99) | bromobenzene | 7.125 | 156 | 145534 | 46.59 | ug/L | | 98 |
| 100) | 1,1,2,2-tetrachloroethane | 7.104 | 83 | 162239 | 52.45 | ug/L | | 100 |
| 101) | trans-1,4-dichloro-2-b... | 7.131 | 53 | 34511 | 38.35 | ug/L | | 88 |
| 102) | 1,2,3-trichloropropane | 7.152 | 110 | 50772 | 49.72 | ug/L | | 95 |
| 103) | n-propylbenzene | 7.189 | 91 | 620985 | 48.08 | ug/L | | 99 |
| 104) | 2-chlorotoluene | 7.264 | 126 | 136429 | 47.56 | ug/L | | 94 |
| 105) | 4-chlorotoluene | 7.360 | 91 | 352909 | 46.90 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200645.d
Acq On : 30 Sep 2022 10:35 am
Operator : taylors
Sample : bs Inst : ACC-VOA-MSX
Misc : MS62564,V1X8639,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 30 10:47:59 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

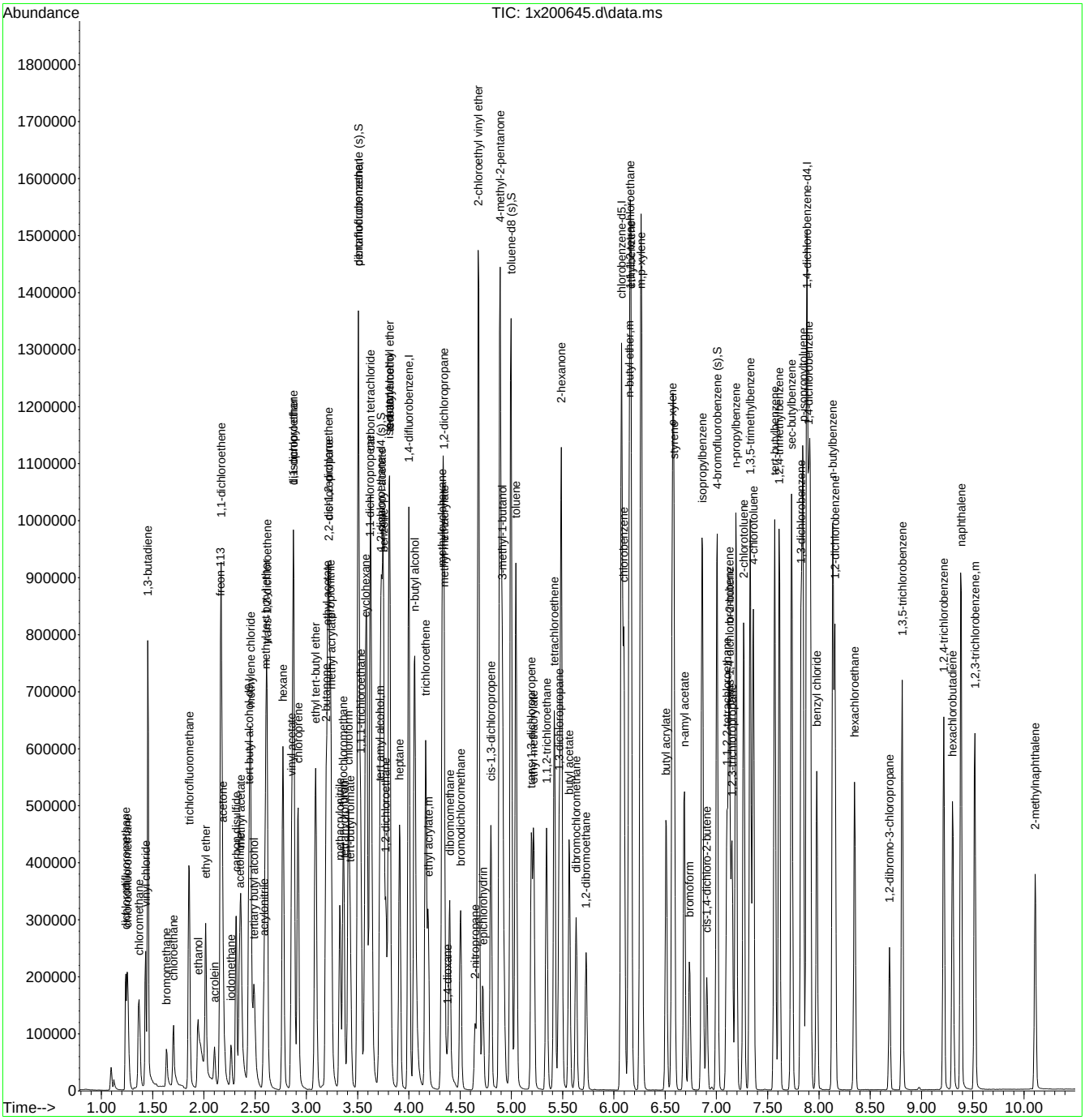
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) 1,3,5-trimethylbenzene | 7.328 | 105 | 414067 | 49.10 | ug/L | 100 |
| 107) tert-butylbenzene | 7.568 | 119 | 393833 | 48.00 | ug/L | 98 |
| 108) 1,2,4-trimethylbenzene | 7.611 | 105 | 406754 | 47.62 | ug/L | 99 |
| 109) sec-butylbenzene | 7.734 | 105 | 551198 | 48.85 | ug/L | 99 |
| 110) 1,3-dichlorobenzene | 7.825 | 146 | 266476 | 47.68 | ug/L | 98 |
| 111) p-isopropyltoluene | 7.846 | 119 | 473635 | 49.52 | ug/L | 99 |
| 112) 1,4-dichlorobenzene | 7.899 | 146 | 271360 | 47.10 | ug/L | 100 |
| 113) 1,2-dichlorobenzene | 8.155 | 146 | 253285 | 48.46 | ug/L | 99 |
| 114) benzyl chloride | 7.979 | 91 | 275743 | 59.65 | ug/L | 100 |
| 115) n-butylbenzene | 8.134 | 92 | 209493 | 49.79 | ug/L | 98 |
| 116) 1,2-dibromo-3-chloropr... | 8.689 | 157 | 47947 | 51.76 | ug/L | 98 |
| 117) 1,3,5-trichlorobenzene | 8.812 | 180 | 165680 | 49.33 | ug/L | 98 |
| 118) hexachlorobutadiene | 9.303 | 225 | 61223 | 51.14 | ug/L | 98 |
| 119) naphthalene | 9.388 | 128 | 531190 | 48.34 | ug/L | 100 |
| 120) 1,2,4-trichlorobenzene | 9.217 | 180 | 145344 | 49.68 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 9.522 | 180 | 140313 | 49.23 | ug/L | 99 |
| 122) hexachloroethane | 8.348 | 201 | 53994 | 43.32 | ug/L | 90 |
| 123) 2-methylnaphthalene | 10.109 | 142 | 142118 | 26.48 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200645.d
Acq On : 30 Sep 2022 10:35 am
Operator : taylors
Sample : bs Inst : ACC-VOA-MSX
Misc : MS62564,V1X8639,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 30 10:47:59 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347770.d
Acq On : 3 Oct 2022 12:31 pm
Operator : nicoleh
Sample : bs Inst : GCMSL
Misc : MS62586,VL10517,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 03 22:47:38 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.089 | 65 | 161484 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.308 | 168 | 225003 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.882 | 114 | 338282 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 324914 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.471 | 152 | 125136 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.308 | 168 | 224917 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.471 | 152 | 125156 | 50.00 | ug/L | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.321 | 113 | 100335 | 49.37 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.74% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.574 | 65 | 111164 | 45.02 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 90.04% | | | | |
| 73) toluene-d8 (s) | 6.028 | 98 | 402312 | 44.99 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 89.98% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 154283 | 47.33 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.66% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.312 | 88 | 13416 | 318.62 | ug/L | | 99 |
| 3) ethanol | 2.508 | 45 | 81771 | 2028.44 | ug/L | | 96 |
| 4) tertiary butyl alcohol | 3.143 | 59 | 112584 | 227.47 | ug/L | | 93 |
| 6) chlorodifluoromethane | 1.673 | 51 | 66490 | 26.42 | ug/L | # | 96 |
| 7) dichlorodifluoromethane | 1.657 | 85 | 200664 | 54.63 | ug/L | | 95 |
| 8) chloromethane | 1.818 | 50 | 128353 | 52.28 | ug/L | | 96 |
| 9) vinyl chloride | 1.904 | 62 | 145938 | 48.19 | ug/L | | 99 |
| 10) 1,3-butadiene | 1.933 | 54 | 72996 | 24.52 | ug/L | | 92 |
| 11) bromomethane | 2.158 | 96 | 61660 | 48.90 | ug/L | | 99 |
| 12) chloroethane | 2.238 | 64 | 78901 | 44.55 | ug/L | | 99 |
| 13) trichlorofluoromethane | 2.424 | 101 | 226894 | 53.57 | ug/L | | 96 |
| 14) ethyl ether | 2.604 | 74 | 70704 | 47.78 | ug/L | | 76 |
| 15) acrolein | 2.704 | 56 | 37373 | 69.56 | ug/L | | 87 |
| 16) freon 113 | 2.784 | 151 | 96367 | 57.79 | ug/L | | 88 |
| 17) 1,1-dichloroethene | 2.784 | 96 | 103276 | 49.72 | ug/L | | 95 |
| 18) acetone | 2.793 | 58 | 78753 | 215.81 | ug/L | | 90 |
| 19) acetonitrile | 2.986 | 40 | 88690 | 375.10 | ug/L | | 95 |
| 20) iodomethane | 2.902 | 142 | 70928 | 37.70 | ug/L | | 97 |
| 21) iso-butyl alcohol | 4.459 | 43 | 67578 | 284.14 | ug/L | | 92 |
| 22) carbon disulfide | 2.963 | 76 | 259470 | 40.59 | ug/L | | 95 |
| 23) methylene chloride | 3.117 | 84 | 125805 | 52.02 | ug/L | | 98 |
| 24) methyl acetate | 3.005 | 74 | 32283 | 44.08 | ug/L | | 97 |
| 25) methyl tert butyl ether | 3.284 | 73 | 377458 | 48.00 | ug/L | | 94 |
| 26) trans-1,2-dichloroethene | 3.304 | 96 | 121829 | 54.21 | ug/L | | 94 |
| 27) hexane | 3.483 | 57 | 180842 | 57.22 | ug/L | | 96 |
| 28) di-isopropyl ether | 3.589 | 45 | 362719 | 56.84 | ug/L | | 90 |
| 29) ethyl tert-butyl ether | 3.839 | 59 | 406410 | 54.35 | ug/L | | 93 |
| 30) 2-butanone | 3.958 | 72 | 104062 | 185.64 | ug/L | # | 84 |
| 31) 1,1-dichloroethane | 3.602 | 63 | 217238 | 55.05 | ug/L | | 91 |
| 32) chloroprene | 3.650 | 53 | 185500 | 57.79 | ug/L | | 90 |
| 33) acrylonitrile | 3.262 | 53 | 71222 | 54.87 | ug/L | | 90 |
| 34) vinyl acetate | 3.570 | 86 | 35558 | 52.23 | ug/L | # | 84 |
| 35) ethyl acetate | 3.965 | 45 | 27206 | 47.79 | ug/L | | 98 |
| 36) 2,2-dichloropropane | 4.000 | 77 | 180475 | 47.02 | ug/L | | 99 |
| 37) cis-1,2-dichloroethene | 3.987 | 96 | 131134 | 51.58 | ug/L | | 98 |
| 38) propionitrile | 4.006 | 54 | 235387 | 439.36 | ug/L | | 90 |
| 39) methyl acrylate | 4.013 | 85 | 29138 | 44.12 | ug/L | # | 78 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347770.d
Acq On : 3 Oct 2022 12:31 pm
Operator : nicoleh
Sample : bs Inst : GCMSL
Misc : MS62586,VL10517,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 03 22:47:38 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 40) bromochloromethane | 4.157 | 128 | 60757 | 54.86 | ug/L | | 97 |
| 41) tetrahydrofuran | 4.167 | 72 | 27846 | 44.46 | ug/L | | 94 |
| 42) chloroform | 4.208 | 83 | 225428 | 49.88 | ug/L | | 94 |
| 44) methacrylonitrile | 4.115 | 67 | 78453 | 49.92 | ug/L | | 91 |
| 45) 1,1,1-trichloroethane | 4.346 | 97 | 200375 | 51.73 | ug/L | | 96 |
| 46) cyclohexane | 4.407 | 84 | 168698 | 47.32 | ug/L | | 93 |
| 47) 1,1-dichloropropene | 4.459 | 75 | 159931 | 51.68 | ug/L | | 96 |
| 48) carbon tetrachloride | 4.462 | 117 | 162594 | 50.64 | ug/L | | 92 |
| 49) isopropyl acetate | 4.571 | 87 | 39368 | 49.00 | ug/L | # | 80 |
| 50) tert amyl alcohol | 4.549 | 55 | 43525 | 171.02 | ug/L | | 89 |
| 53) tert-amyl methyl ether | 4.664 | 73 | 358154 | 47.55 | ug/L | | 95 |
| 54) 2,2,4-trimethylpentane | 4.667 | 57 | 339095 | 56.64 | ug/L | | 96 |
| 55) n-butyl alcohol | 4.937 | 56 | 191135 | 1139.67 | ug/L | | 93 |
| 56) benzene | 4.603 | 78 | 464777 | 52.77 | ug/L | | 98 |
| 57) heptane | 4.776 | 57 | 73573 | 53.28 | ug/L | | 91 |
| 58) 1,2-dichloroethane | 4.629 | 62 | 163570 | 49.21 | ug/L | | 95 |
| 59) trichloroethene | 5.075 | 95 | 139062 | 55.83 | ug/L | | 96 |
| 60) ethyl acrylate | 5.091 | 55 | 228699 | 55.40 | ug/L | | 99 |
| 61) 2-nitropropane | 5.620 | 41 | 57769 | 47.83 | ug/L | | 89 |
| 62) 2-chloroethyl vinyl ether | 5.652 | 63 | 423465 | 293.68 | ug/L | | 94 |
| 63) methyl methacrylate | 5.274 | 100 | 46889 | 48.76 | ug/L | | 98 |
| 64) 1,2-dichloropropane | 5.274 | 63 | 123790 | 56.97 | ug/L | | 87 |
| 65) methylcyclohexane | 5.264 | 83 | 209725 | 53.47 | ug/L | | 94 |
| 66) dibromomethane | 5.341 | 93 | 82053 | 51.23 | ug/L | | 96 |
| 67) bromodichloromethane | 5.460 | 83 | 182712 | 50.06 | ug/L | | 95 |
| 68) cis-1,3-dichloropropene | 5.800 | 75 | 212608 | 51.93 | ug/L | | 98 |
| 69) epichlorohydrin | 5.710 | 57 | 98299 | 208.32 | ug/L | | 93 |
| 70) 4-methyl-2-pentanone | 5.900 | 58 | 298287 | 197.44 | ug/L | | 92 |
| 71) 3-methyl-1-butanol | 5.919 | 70 | 91863 | 496.70 | ug/L | # | 78 |
| 74) toluene | 6.082 | 92 | 312065 | 51.15 | ug/L | | 96 |
| 75) trans-1,3-dichloropropene | 6.253 | 75 | 195324 | 46.24 | ug/L | | 94 |
| 76) ethyl methacrylate | 6.272 | 69 | 203883 | 47.95 | ug/L | | 97 |
| 77) 1,1,2-trichloroethane | 6.423 | 83 | 106463 | 50.09 | ug/L | | 95 |
| 78) 2-hexanone | 6.586 | 58 | 306271 | 181.19 | ug/L | | 91 |
| 79) tetrachloroethene | 6.522 | 166 | 133364 | 54.56 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 6.570 | 76 | 199342 | 48.25 | ug/L | | 95 |
| 81) butyl acetate | 6.670 | 56 | 114932 | 52.13 | ug/L | | 95 |
| 82) dibromochloromethane | 6.760 | 129 | 132643 | 46.69 | ug/L | | 97 |
| 83) 1,2-dibromoethane | 6.878 | 107 | 132994 | 46.71 | ug/L | | 99 |
| 84) n-butyl ether | 7.344 | 57 | 494040 | 54.24 | ug/L | | 96 |
| 85) chlorobenzene | 7.302 | 112 | 324457 | 52.04 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 7.376 | 131 | 109179 | 48.36 | ug/L | | 91 |
| 87) ethylbenzene | 7.379 | 91 | 543477 | 50.74 | ug/L | | 98 |
| 88) m,p-xylene | 7.491 | 106 | 415996 | 96.88 | ug/L | | 96 |
| 89) o-xylene | 7.847 | 106 | 213125 | 49.63 | ug/L | | 99 |
| 90) butyl acrylate | 7.764 | 55 | 292788 | 53.26 | ug/L | | 96 |
| 91) styrene | 7.863 | 104 | 331100 | 47.54 | ug/L | | 98 |
| 92) bromoform | 8.043 | 173 | 91823 | 45.93 | ug/L | | 99 |
| 93) isopropylbenzene | 8.184 | 105 | 535283 | 49.65 | ug/L | | 97 |
| 94) cis-1,4-dichloro-2-butene | 8.232 | 88 | 48355 | 60.31 | ug/L | | 93 |
| 97) bromobenzene | 8.499 | 156 | 124549 | 49.05 | ug/L | | 89 |
| 98) 1,1,2,2-tetrachloroethane | 8.470 | 83 | 187214 | 44.70 | ug/L | | 98 |
| 99) trans-1,4-dichloro-2-b... | 8.505 | 53 | 34727 | 58.34 | ug/L | | 91 |
| 100) 1,2,3-trichloropropane | 8.531 | 110 | 50173 | 41.59 | ug/L | | 89 |
| 101) n-propylbenzene | 8.576 | 91 | 593486 | 49.51 | ug/L | | 99 |
| 102) 2-chlorotoluene | 8.672 | 126 | 118795 | 50.36 | ug/L | | 90 |
| 103) 4-chlorotoluene | 8.791 | 126 | 113076 | 47.82 | ug/L | | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347770.d
Acq On : 3 Oct 2022 12:31 pm
Operator : nicoleh
Sample : bs Inst : GCMSL
Misc : MS62586,VL10517,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 03 22:47:38 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

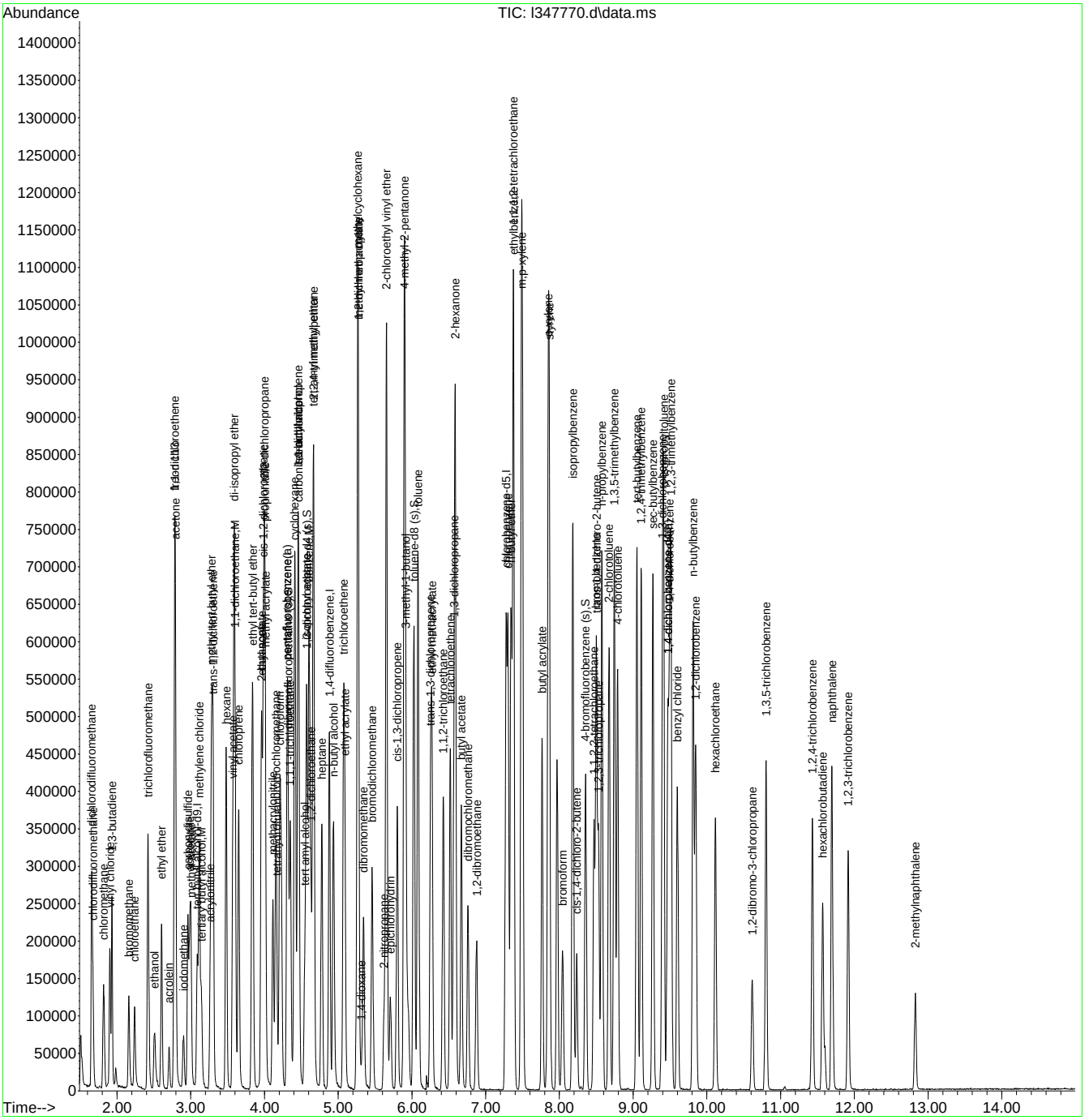
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) 1,3,5-trimethylbenzene | 8.746 | 105 | 408704 | 47.56 | ug/L | 97 |
| 105) tert-butylbenzene | 9.054 | 119 | 372906 | 51.77 | ug/L | 99 |
| 106) 1,2,4-trimethylbenzene | 9.108 | 105 | 412175 | 46.86 | ug/L | 98 |
| 107) sec-butylbenzene | 9.269 | 105 | 508165 | 49.36 | ug/L | 98 |
| 108) 1,3-dichlorobenzene | 9.397 | 146 | 213646 | 49.82 | ug/L | 99 |
| 109) p-isopropyltoluene | 9.417 | 119 | 397809 | 49.00 | ug/L | 98 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 197881 | 47.06 | ug/L | 96 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 381955 | 45.76 | ug/L | 96 |
| 112) 1,2-dichlorobenzene | 9.847 | 146 | 193099 | 45.76 | ug/L | 97 |
| 113) n-butylbenzene | 9.814 | 92 | 211696 | 52.10 | ug/L | 99 |
| 114) 1,2-dibromo-3-chloropr... | 10.617 | 157 | 47692 | 48.20 | ug/L | 90 |
| 115) 1,3,5-trichlorobenzene | 10.803 | 180 | 144288 | 53.00 | ug/L | 94 |
| 116) 1,2,4-trichlorobenzene | 11.432 | 180 | 120675 | 54.74 | ug/L | 95 |
| 117) hexachlorobutadiene | 11.570 | 225 | 48584 | 55.04 | ug/L | 84 |
| 118) naphthalene | 11.698 | 128 | 369421 | 49.62 | ug/L | 97 |
| 119) 1,2,3-trichlorobenzene | 11.916 | 180 | 107203 | 53.71 | ug/L | 100 |
| 120) hexachloroethane | 10.116 | 119 | 81515 | 48.42 | ug/L | 92 |
| 121) benzyl chloride | 9.599 | 91 | 311825 | 42.91 | ug/L | 96 |
| 122) 2-methylnaphthalene | 12.828 | 142 | 66906 | 25.10 | ug/L | 94 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347770.d
Acq On : 3 Oct 2022 12:31 pm
Operator : nicoleh
Sample : bs Inst : GCMSL
Misc : MS62586,VL10517,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 03 22:47:38 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
MoHui Huang
10/08/22 17:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121705.d
Acq On : 30 Sep 2022 1:06 am
Operator : taylors
Sample : jd52514-2ms Inst : MS4D
Misc : MS62508,V4D5406,5,,,,10
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 21:38:53 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 8.531 | 65 | 746490 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 11.021 | 168 | 775803 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 11.912 | 114 | 1118540 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 14.822 | 117 | 1102709 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.930 | 152 | 496886 | 50.00 | ug/L | | 0.00 |
| 124) pentafluorobenzene(a) | 11.021 | 168 | 775803 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 11.016 | 113 | 391958 | 53.31 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.62% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.446 | 65 | 400511 | 46.54 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 93.08% | | | | |
| 74) toluene-d8 (s) | 13.459 | 98 | 1307665 | 49.20 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.40% | | | | |
| 97) 4-bromofluorobenzene (s) | 15.866 | 95 | 491830 | 48.47 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.94% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) tertiary butyl alcohol | 8.662 | 59 | 558129 | 261.55 | ug/L | | 97 |
| 3) ethanol | 7.068 | 45 | 1250194 | 6069.57 | ug/L | | 97 |
| 4) 1,4-dioxane | 12.573 | 88 | 217281 | 1153.37 | ug/L | | 94 |
| 6) chlorodifluoromethane | 4.588 | 51 | 482745 | 56.59 | ug/L | | 95 |
| 7) dichlorodifluoromethane | 4.541 | 85 | 409450 | 41.28 | ug/L | | 99 |
| 8) chloromethane | 5.039 | 50 | 319539 | 38.09 | ug/L | | 99 |
| 9) vinyl chloride | 5.280 | 62 | 318539 | 38.69 | ug/L | | 97 |
| 10) 1,3-butadiene | 5.380 | 54 | 260921 | 34.77 | ug/L | | 97 |
| 11) bromomethane | 6.045 | 94 | 179892 | 36.41 | ug/L | | 98 |
| 12) chloroethane | 6.281 | 64 | 195900 | 45.27 | ug/L | | 96 |
| 13) trichlorofluoromethane | 6.848 | 101 | 520757 | 44.70 | ug/L | | 98 |
| 14) ethyl ether | 7.372 | 74 | 183007 | 52.43 | ug/L | # | 78 |
| 15) acrolein | 7.576 | 56 | 60042 | 40.91 | ug/L | | 90 |
| 16) freon 113 | 7.823 | 151 | 276524 | 50.11 | ug/L | | 99 |
| 17) 1,1-dichloroethene | 7.828 | 96 | 279436 | 45.68 | ug/L | | 93 |
| 18) acetone | 7.818 | 58 | 227893 | 317.70 | ug/L | # | 86 |
| 19) acetonitrile | 8.258 | 41 | 997654 | 810.34 | ug/L | | 99 |
| 20) iodomethane | 8.111 | 142 | 285645 | 28.04 | ug/L | | 96 |
| 21) carbon disulfide | 8.274 | 76 | 819947 | 47.84 | ug/L | | 99 |
| 22) methylene chloride | 8.594 | 84 | 329235 | 50.17 | ug/L | | 87 |
| 23) methyl acetate | 8.394 | 43 | 471266 | 77.56 | ug/L | | 94 |
| 24) methyl tert butyl ether | 9.034 | 73 | 985624 | 51.76 | ug/L | | 94 |
| 25) trans-1,2-dichloroethene | 9.055 | 96 | 318882 | 47.32 | ug/L | | 89 |
| 26) di-isopropyl ether | 9.721 | 45 | 1269659 | 62.88 | ug/L | | 94 |
| 27) 2-butanone | 10.392 | 72 | 279036 | 269.09 | ug/L | # | 63 |
| 28) 1,1-dichloroethane | 9.653 | 63 | 600267 | 53.83 | ug/L | | 95 |
| 29) chloroprene | 9.805 | 53 | 506096 | 60.11 | ug/L | | 92 |
| 30) acrylonitrile | 8.919 | 53 | 144421 | 53.35 | ug/L | | 97 |
| 31) hexane | 9.480 | 56 | 212915 | 54.66 | ug/L | | 89 |
| 32) vinyl acetate | 9.663 | 86 | 79288 | 56.60 | ug/L | # | 51 |
| 33) ethyl tert-butyl ether | 10.219 | 59 | 1123848 | 57.05 | ug/L | | 97 |
| 34) ethyl acetate | 10.455 | 70 | 62639 | 62.57 | ug/L | # | 48 |
| 35) 2,2-dichloropropane | 10.471 | 77 | 377467 | 37.77 | ug/L | | 94 |
| 36) cis-1,2-dichloroethene | 10.439 | 96 | 639634 | 85.70 | ug/L | | 99 |
| 37) methyl acrylate | 10.528 | 55 | 491552 | 71.00 | ug/L | | 93 |
| 38) propionitrile | 10.439 | 54 | 1019134 | 809.58 | ug/L | | 99 |
| 39) bromochloromethane | 10.754 | 128 | 203676 | 53.54 | ug/L | | 92 |
| 40) tetrahydrofuran | 10.832 | 72 | 80235 | 58.56 | ug/L | # | 74 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121705.d
Acq On : 30 Sep 2022 1:06 am
Operator : taylors
Sample : jd52514-2ms Inst : MS4D
Misc : MS62508,V4D5406,5,,,,10
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 21:38:53 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) chloroform | 10.822 | 85 | 389737 | 46.11 | ug/L | | 97 |
| 42) t-butyl formate | 10.900 | 59 | 250321 | 43.34 | ug/L | | 91 |
| 44) methacrylonitrile | 10.675 | 67 | 194705 | 61.94 | ug/L | | 85 |
| 45) 1,1,1-trichloroethane | 11.131 | 97 | 526862 | 48.87 | ug/L | | 98 |
| 46) cyclohexane | 11.246 | 84 | 347684 | 41.41 | ug/L | # | 56 |
| 47) 1,1-dichloropropene | 11.320 | 75 | 415984 | 49.32 | ug/L | | 98 |
| 48) isobutyl alcohol | 11.315 | 74 | 28833m | 462.14 | ug/L | | |
| 49) carbon tetrachloride | 11.351 | 117 | 500470 | 48.88 | ug/L | | 99 |
| 50) tert amyl alcohol | 11.399 | 55 | 186653 | 416.65 | ug/L | | 91 |
| 53) n-butyl alcohol | 11.986 | 56 | 1461294 | 4287.24 | ug/L | | 96 |
| 54) 2,2,4-trimethylpentane | 11.650 | 57 | 736410 | 45.80 | ug/L | | 99 |
| 55) benzene | 11.566 | 78 | 1172218 | 45.58 | ug/L | | 100 |
| 56) tert-amyl methyl ether | 11.634 | 87 | 240062 | 48.12 | ug/L | | 94 |
| 57) heptane | 11.813 | 71 | 129037 | 35.59 | ug/L | | 84 |
| 58) isopropyl acetate | 11.493 | 87 | 97826 | 53.27 | ug/L | # | 54 |
| 59) 1,2-dichloroethane | 11.535 | 62 | 506549 | 46.00 | ug/L | | 95 |
| 60) trichloroethene | 12.253 | 130 | 463653 | 59.69 | ug/L | | 97 |
| 61) ethyl acrylate | 12.243 | 55 | 675684 | 63.59 | ug/L | | 98 |
| 62) 2-nitropropane | 12.898 | 43 | 218853 | 64.25 | ug/L | | 97 |
| 64) methyl methacrylate | 12.494 | 100 | 120050 | 54.31 | ug/L | # | 87 |
| 65) 1,2-dichloropropane | 12.473 | 63 | 354612 | 51.03 | ug/L | | 98 |
| 66) dibromomethane | 12.599 | 93 | 251632 | 45.99 | ug/L | | 97 |
| 67) methylcyclohexane | 12.510 | 83 | 435664 | 46.11 | ug/L | | 93 |
| 68) bromodichloromethane | 12.720 | 83 | 485607 | 46.81 | ug/L | | 98 |
| 69) epichlorohydrin | 13.040 | 57 | 339152 | 348.08 | ug/L | | 96 |
| 70) cis-1,3-dichloropropene | 13.160 | 75 | 549983 | 49.05 | ug/L | | 99 |
| 71) 4-methyl-2-pentanone | 13.255 | 58 | 919126 | 263.55 | ug/L | # | 85 |
| 72) 3-methyl-1-butanol | 13.244 | 70 | 479849 | 1519.99 | ug/L | | 78 |
| 75) toluene | 13.527 | 92 | 757726 | 44.65 | ug/L | | 98 |
| 76) trans-1,3-dichloropropene | 13.658 | 75 | 508136 | 47.71 | ug/L | | 99 |
| 77) ethyl methacrylate | 13.690 | 69 | 490861 | 51.42 | ug/L | | 89 |
| 78) 1,1,2-trichloroethane | 13.852 | 83 | 285179 | 50.12 | ug/L | | 99 |
| 79) tetrachloroethene | 14.072 | 164 | 285178 | 41.58 | ug/L | | 95 |
| 80) 1,3-dichloropropane | 14.020 | 76 | 530290 | 49.32 | ug/L | | 80 |
| 81) 2-hexanone | 14.025 | 58 | 1008983 | 281.55 | ug/L | | 93 |
| 82) butyl acetate | 14.109 | 56 | 327816 | 65.58 | ug/L | | 98 |
| 83) dibromochloromethane | 14.261 | 129 | 467719 | 50.23 | ug/L | | 99 |
| 84) 1,2-dibromoethane | 14.408 | 107 | 407842 | 53.07 | ug/L | | 95 |
| 85) n-butyl ether | 14.812 | 57 | 1508309 | 54.94 | ug/L | | 96 |
| 86) chlorobenzene | 14.848 | 112 | 926296 | 46.93 | ug/L | | 95 |
| 87) 1,1,1,2-tetrachloroethane | 14.896 | 131 | 379898 | 47.96 | ug/L | | 98 |
| 88) ethylbenzene | 14.917 | 91 | 1421920 | 45.12 | ug/L | | 98 |
| 89) m,p-xylene | 15.011 | 106 | 1120123 | 91.82 | ug/L | | 96 |
| 90) o-xylene | 15.388 | 106 | 567455 | 46.42 | ug/L | | 93 |
| 91) styrene | 15.388 | 104 | 978236 | 47.47 | ug/L | | 93 |
| 92) bromoform | 15.593 | 173 | 353336 | 49.37 | ug/L | | 99 |
| 93) butyl acrylate | 15.215 | 55 | 865464 | 62.32 | ug/L | | 96 |
| 94) isopropylbenzene | 15.703 | 105 | 1391137 | 45.82 | ug/L | | 97 |
| 95) cis-1,4-dichloro-2-butene | 15.714 | 88 | 141954 | 47.10 | ug/L | | 92 |
| 98) bromobenzene | 16.044 | 156 | 416250 | 45.51 | ug/L | | 89 |
| 99) 1,1,2,2-tetrachloroethane | 15.918 | 83 | 520525 | 52.09 | ug/L | | 97 |
| 100) trans-1,4-dichloro-2-b... | 15.960 | 53 | 123674 | 64.09 | ug/L | | 96 |
| 101) 1,2,3-trichloropropane | 15.991 | 110 | 153686 | 51.06 | ug/L | | 97 |
| 102) n-propylbenzene | 16.075 | 91 | 1532032 | 45.85 | ug/L | | 97 |
| 103) 2-chlorotoluene | 16.196 | 126 | 366756 | 47.74 | ug/L | | 91 |
| 104) 4-chlorotoluene | 16.285 | 91 | 967468 | 44.28 | ug/L | | 97 |
| 105) 1,3,5-trimethylbenzene | 16.212 | 105 | 1045580 | 44.25 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121705.d
Acq On : 30 Sep 2022 1:06 am
Operator : taylors
Sample : jd52514-2ms Inst : MS4D
Misc : MS62508,V4D5406,5,,,,10
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 21:38:53 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

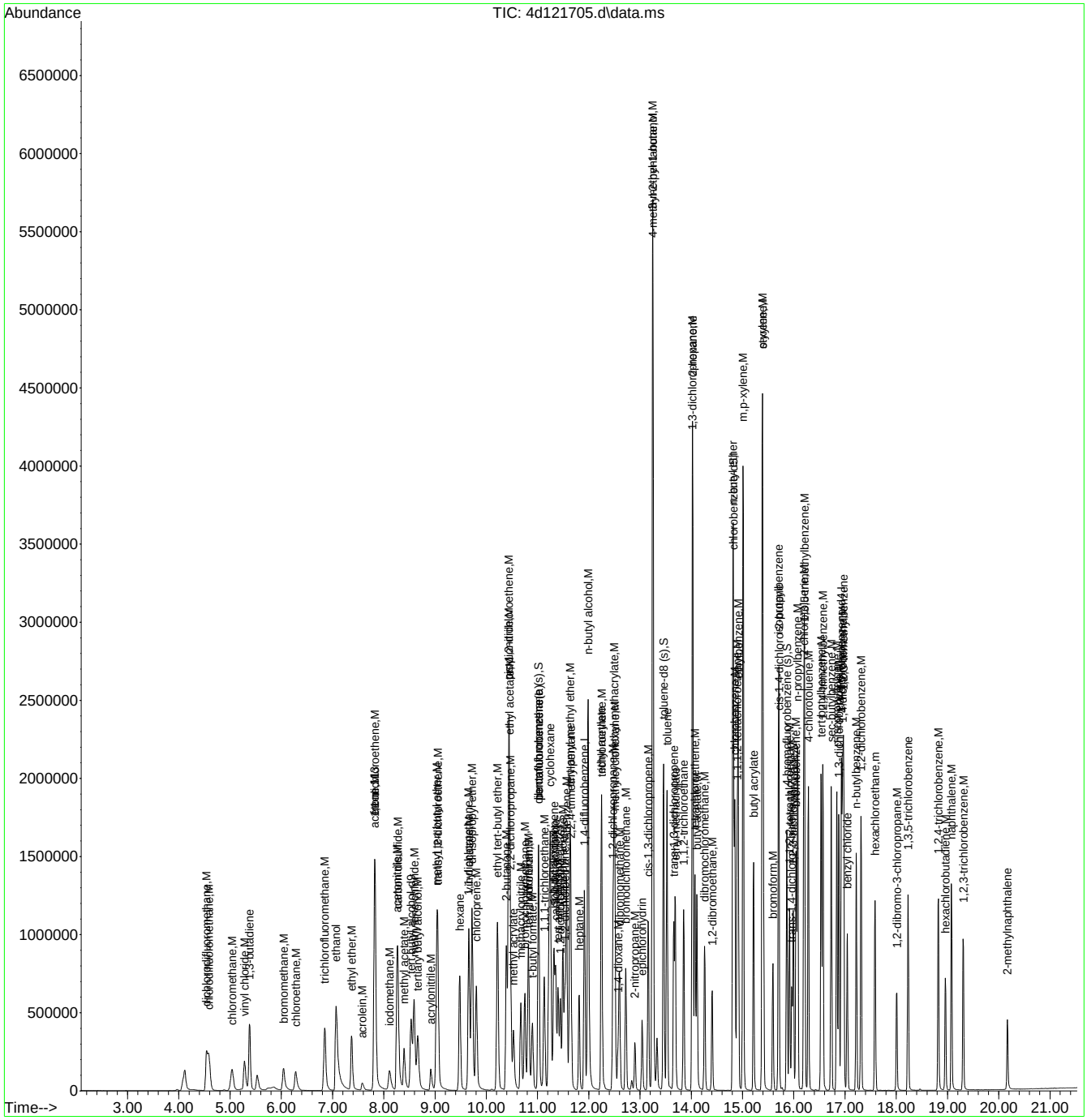
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) tert-butylbenzene | 16.537 | 134 | 222013 | 47.54 | ug/L | 94 |
| 107) 1,2,4-trimethylbenzene | 16.568 | 105 | 1030949 | 43.37 | ug/L | 96 |
| 108) sec-butylbenzene | 16.731 | 105 | 1246892 | 46.12 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 16.883 | 146 | 698869 | 46.10 | ug/L | 99 |
| 110) p-isopropyltoluene | 16.841 | 119 | 1046418 | 46.96 | ug/L | 98 |
| 111) 1,4-dichlorobenzene | 16.951 | 146 | 703255 | 43.98 | ug/L | 99 |
| 112) 1,2,3-trimethylbenzene | 16.972 | 105 | 1021840 | 43.73 | ug/L | 96 |
| 113) benzyl chloride | 17.045 | 91 | 640694 | 38.07 | ug/L | 98 |
| 114) 1,2-dichlorobenzene | 17.313 | 146 | 691703 | 48.40 | ug/L | 98 |
| 115) n-butylbenzene | 17.218 | 92 | 420960 | 40.96 | ug/L | 98 |
| 116) 1,2-dibromo-3-chloropr... | 18.010 | 157 | 171669 | 62.87 | ug/L | 96 |
| 117) 1,3,5-trichlorobenzene | 18.230 | 180 | 378538 | 45.09 | ug/L | 95 |
| 118) 1,2,4-trichlorobenzene | 18.823 | 180 | 323529 | 46.44 | ug/L | 98 |
| 119) hexachlorobutadiene | 18.959 | 225 | 132258 | 41.97 | ug/L | 97 |
| 120) naphthalene | 19.080 | 128 | 1022465 | 51.65 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 19.310 | 180 | 289888 | 50.75 | ug/L | 95 |
| 122) hexachloroethane | 17.585 | 201 | 184993 | 41.70 | ug/L | 95 |
| 123) 2-methylnaphthalene | 20.170 | 142 | 223779 | 39.15 | ug/L | 96 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121705.d
Acq On : 30 Sep 2022 1:06 am
Operator : taylors
Sample : jd52514-2ms Inst : MS4D
Misc : MS62508,V4D5406,5,,,,10
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 21:38:53 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



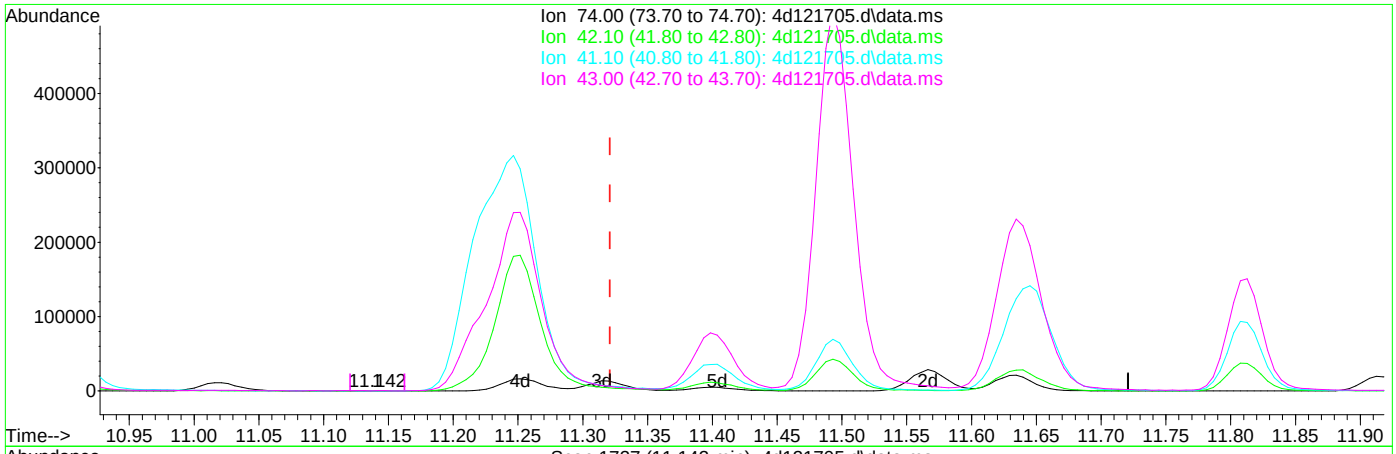
| | | | |
|---|---|---|---|
| **Sample Number:** | JD52514-2MS | **Method:** | SW846 8260D |
| **Lab FileID:** | 4D121705.D | **Analyst approved:** | 09/30/22 22:35 Renee Cofreros |
| **Injection Time:** | 09/30/22 01:06 | **Supervisor approved:** | 10/08/22 17:51 MoHui Huang |

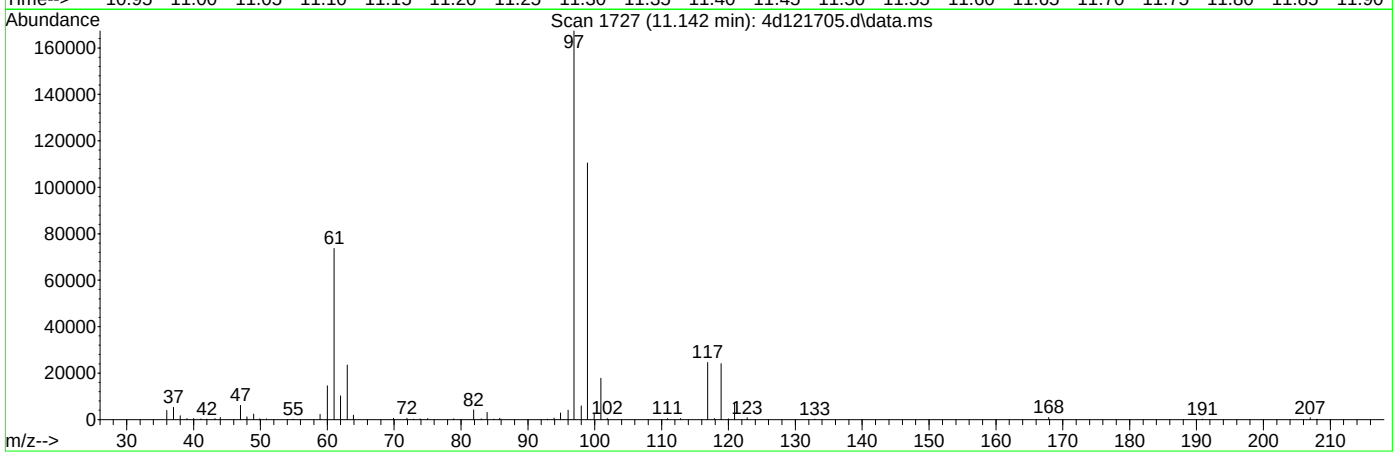
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Isobutyl alcohol | 78-83-1 | | 11.31 | Missed peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121705.d
Acq On : 30 Sep 2022 1:06 am
Operator : taylors
Sample : jd52514-2ms Inst : MS4D
Misc : MS62508,V4D5406,5,,,,10
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 20:59:32 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration




TIC: 4d121705.d\data.ms

(48) isobutyl alcohol

11.142min (-0.179) 4.94ug/L

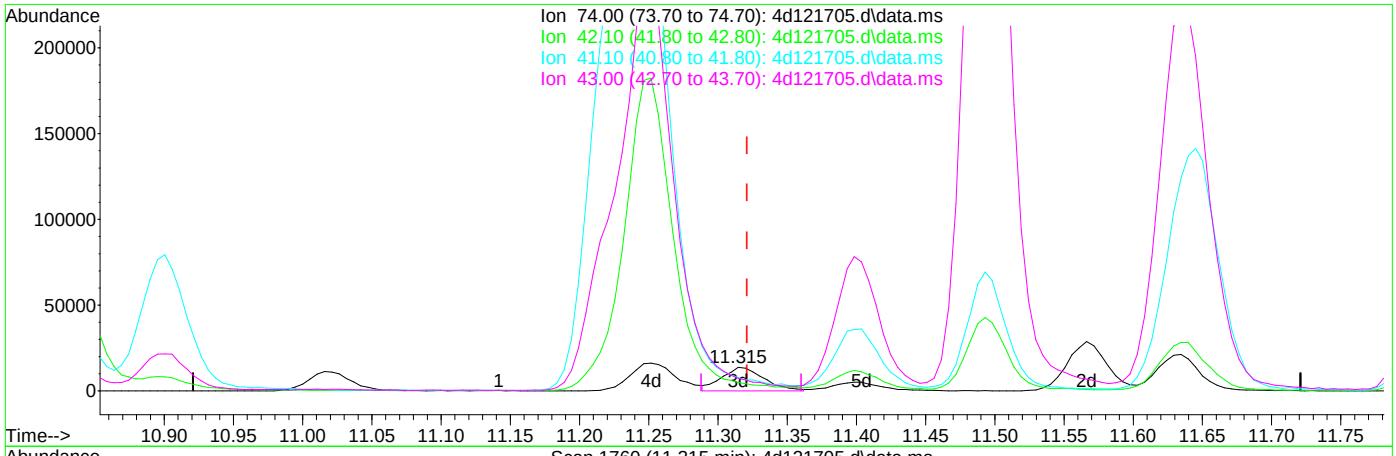
response 308

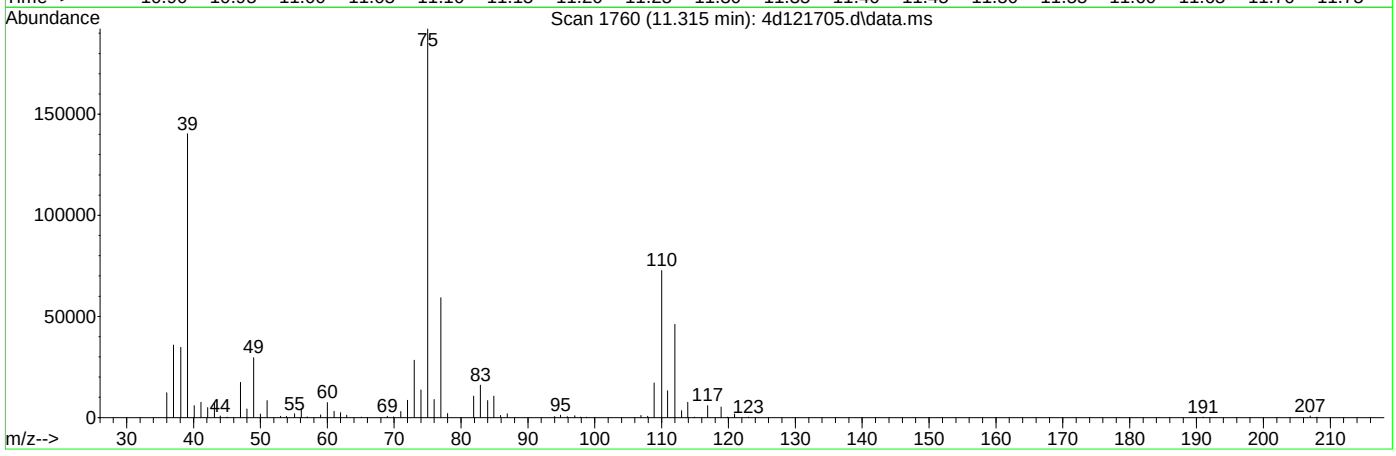
| Ion | Exp% | Act% |
|---|---|---|
| 74.00 | 100 | 100 |
| 42.10 | 4.90 | 23.08 |
| 41.10 | 3.20 | 27.97 |
| 43.00 | 0.00 | 24.83 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121705.d
Acq On : 30 Sep 2022 1:06 am
Operator : taylors
Sample : jd52514-2ms Inst : MS4D
Misc : MS62508,V4D5406,5,,,,10
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 20:59:32 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration




TIC: 4d121705.d\data.ms

(48) isobutyl alcohol

11.315min (-0.006) 462.14ug/L m

response 28833

| Ion | Exp% | Act% |
|---|---|---|
| 74.00 | 100 | 100 |
| 42.10 | 4.90 | 35.72# |
| 41.10 | 3.20 | 55.60# |
| 43.00 | 0.00 | 53.11# |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121706.d
Acq On : 30 Sep 2022 1:35 am
Operator : taylors
Sample : jd52514-2msd Inst : MS4D
Misc : MS62508,V4D5406,5,,,,10
ALS Vial : 37 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 21:03:31 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 8.531 | 65 | 792935 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 11.021 | 168 | 824658 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 11.918 | 114 | 1182735 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 14.822 | 117 | 1160008 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.930 | 152 | 519988 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 11.021 | 168 | 824658 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 11.016 | 113 | 413517 | 52.91 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 105.82% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.446 | 65 | 420258 | 46.18 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 92.36% | | | |
| 74) toluene-d8 (s) | 13.459 | 98 | 1369195 | 48.97 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.94% | | | |
| 97) 4-bromofluorobenzene (s) | 15.866 | 95 | 514904 | 48.49 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.98% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) tertiary butyl alcohol | 8.662 | 59 | 599616 | 264.53 | ug/L | 96 |
| 3) ethanol | 7.068 | 45 | 1311932 | 5996.23 | ug/L | 98 |
| 4) 1,4-dioxane | 12.573 | 88 | 226058 | 1129.68 | ug/L | 93 |
| 6) chlorodifluoromethane | 4.588 | 51 | 392370 | 43.27 | ug/L | 96 |
| 7) dichlorodifluoromethane | 4.541 | 85 | 353033 | 33.48 | ug/L | 99 |
| 8) chloromethane | 5.039 | 50 | 339046 | 38.02 | ug/L | 96 |
| 9) vinyl chloride | 5.280 | 62 | 342446 | 39.13 | ug/L | 97 |
| 10) 1,3-butadiene | 5.379 | 54 | 285746 | 35.82 | ug/L | 98 |
| 11) bromomethane | 6.045 | 94 | 167881 | 31.97 | ug/L | 98 |
| 12) chloroethane | 6.281 | 64 | 208551 | 45.33 | ug/L | 96 |
| 13) trichlorofluoromethane | 6.848 | 101 | 557835 | 45.05 | ug/L | 97 |
| 14) ethyl ether | 7.372 | 74 | 197769 | 53.30 | ug/L | 80 |
| 15) acrolein | 7.582 | 56 | 67106 | 43.01 | ug/L | 97 |
| 16) freon 113 | 7.823 | 151 | 298691 | 50.92 | ug/L | 99 |
| 17) 1,1-dichloroethene | 7.828 | 96 | 303124 | 46.62 | ug/L | 97 |
| 18) acetone | 7.823 | 58 | 244080 | 320.11 | ug/L | 89 |
| 19) acetonitrile | 8.258 | 41 | 1054750 | 805.96 | ug/L | 98 |
| 20) iodomethane | 8.111 | 142 | 395654 | 36.06 | ug/L | 95 |
| 21) carbon disulfide | 8.274 | 76 | 885011 | 48.57 | ug/L | 99 |
| 22) methylene chloride | 8.593 | 84 | 351860 | 50.45 | ug/L | 86 |
| 23) methyl acetate | 8.394 | 43 | 498111 | 77.12 | ug/L | 93 |
| 24) methyl tert butyl ether | 9.034 | 73 | 1056929 | 52.22 | ug/L | 93 |
| 25) trans-1,2-dichloroethene | 9.055 | 96 | 344068 | 48.04 | ug/L | 93 |
| 26) di-isopropyl ether | 9.721 | 45 | 1355185 | 63.14 | ug/L | 94 |
| 27) 2-butanone | 10.392 | 72 | 297630 | 270.01 | ug/L # | 70 |
| 28) 1,1-dichloroethane | 9.653 | 63 | 644647 | 54.39 | ug/L | 97 |
| 29) chloroprene | 9.805 | 53 | 544578 | 60.85 | ug/L | 92 |
| 30) acrylonitrile | 8.919 | 53 | 156108 | 54.26 | ug/L | 98 |
| 31) hexane | 9.480 | 56 | 229459 | 55.41 | ug/L | 91 |
| 32) vinyl acetate | 9.663 | 86 | 90383 | 60.70 | ug/L # | 60 |
| 33) ethyl tert-butyl ether | 10.219 | 59 | 1201709 | 57.39 | ug/L | 97 |
| 34) ethyl acetate | 10.455 | 70 | 67345 | 63.29 | ug/L # | 50 |
| 35) 2,2-dichloropropane | 10.470 | 77 | 403100 | 37.94 | ug/L | 95 |
| 36) cis-1,2-dichloroethene | 10.439 | 96 | 678765 | 85.56 | ug/L | 99 |
| 37) methyl acrylate | 10.528 | 55 | 516682 | 70.21 | ug/L | 95 |
| 38) propionitrile | 10.439 | 54 | 1079518 | 806.74 | ug/L | 99 |
| 39) bromochloromethane | 10.754 | 128 | 217381 | 53.76 | ug/L | 92 |
| 40) tetrahydrofuran | 10.832 | 72 | 85333 | 58.59 | ug/L # | 73 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121706.d
Acq On : 30 Sep 2022 1:35 am
Operator : taylors
Sample : jd52514-2msd Inst : MS4D
Misc : MS62508,V4D5406,5,,,,10
ALS Vial : 37 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 21:03:31 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) chloroform | 10.817 | 85 | 415132 | 46.21 | ug/L | | 98 |
| 42) t-butyl formate | 10.900 | 59 | 265306 | 43.21 | ug/L | | 95 |
| 44) methacrylonitrile | 10.675 | 67 | 207194 | 62.01 | ug/L | | 86 |
| 45) 1,1,1-trichloroethane | 11.131 | 97 | 566041 | 49.40 | ug/L | | 98 |
| 46) cyclohexane | 11.246 | 84 | 376311 | 42.17 | ug/L | # | 62 |
| 47) 1,1-dichloropropene | 11.320 | 75 | 448246 | 50.00 | ug/L | | 99 |
| 48) isobutyl alcohol | 11.320 | 74 | 30884 | 465.69 | ug/L | | 49 |
| 49) carbon tetrachloride | 11.351 | 117 | 537098 | 49.35 | ug/L | | 99 |
| 50) tert amyl alcohol | 11.398 | 55 | 197151 | 414.01 | ug/L | | 94 |
| 53) n-butyl alcohol | 11.986 | 56 | 1526765 | 4236.20 | ug/L | | 96 |
| 54) 2,2,4-trimethylpentane | 11.650 | 57 | 783770 | 46.10 | ug/L | | 99 |
| 55) benzene | 11.566 | 78 | 1252660 | 46.06 | ug/L | | 100 |
| 56) tert-amyl methyl ether | 11.634 | 87 | 254627 | 48.27 | ug/L | | 95 |
| 57) heptane | 11.813 | 71 | 139893 | 36.49 | ug/L | | 85 |
| 58) isopropyl acetate | 11.493 | 87 | 105581 | 54.37 | ug/L | # | 66 |
| 59) 1,2-dichloroethane | 11.535 | 62 | 535609 | 46.00 | ug/L | | 95 |
| 60) trichloroethene | 12.248 | 130 | 493953 | 60.14 | ug/L | | 98 |
| 61) ethyl acrylate | 12.243 | 55 | 720968 | 64.17 | ug/L | | 98 |
| 62) 2-nitropropane | 12.898 | 43 | 234906 | 65.22 | ug/L | | 96 |
| 64) methyl methacrylate | 12.494 | 100 | 129630 | 55.46 | ug/L | # | 87 |
| 65) 1,2-dichloropropane | 12.473 | 63 | 379821 | 51.70 | ug/L | | 98 |
| 66) dibromomethane | 12.599 | 93 | 268127 | 46.34 | ug/L | | 99 |
| 67) methylcyclohexane | 12.510 | 83 | 468451 | 46.89 | ug/L | | 92 |
| 68) bromodichloromethane | 12.720 | 83 | 519181 | 47.33 | ug/L | | 97 |
| 69) epichlorohydrin | 13.040 | 57 | 361085 | 350.48 | ug/L | | 95 |
| 70) cis-1,3-dichloropropene | 13.160 | 75 | 583759 | 49.24 | ug/L | | 98 |
| 71) 4-methyl-2-pentanone | 13.255 | 58 | 971105 | 263.34 | ug/L | | 86 |
| 72) 3-methyl-1-butanol | 13.244 | 70 | 504329 | 1510.83 | ug/L | | 79 |
| 75) toluene | 13.527 | 92 | 808183 | 45.27 | ug/L | | 96 |
| 76) trans-1,3-dichloropropene | 13.658 | 75 | 539460 | 48.15 | ug/L | | 98 |
| 77) ethyl methacrylate | 13.690 | 69 | 524026 | 52.19 | ug/L | | 88 |
| 78) 1,1,2-trichloroethane | 13.852 | 83 | 304422 | 50.86 | ug/L | | 99 |
| 79) tetrachloroethene | 14.072 | 164 | 303692 | 42.09 | ug/L | | 94 |
| 80) 1,3-dichloropropane | 14.020 | 76 | 558618 | 49.39 | ug/L | | 81 |
| 81) 2-hexanone | 14.025 | 58 | 1063463 | 282.09 | ug/L | | 91 |
| 82) butyl acetate | 14.109 | 56 | 343644 | 65.35 | ug/L | | 97 |
| 83) dibromochloromethane | 14.261 | 129 | 496357 | 50.67 | ug/L | | 99 |
| 84) 1,2-dibromoethane | 14.408 | 107 | 435784 | 53.91 | ug/L | | 97 |
| 85) n-butyl ether | 14.812 | 57 | 1617222 | 56.00 | ug/L | | 95 |
| 86) chlorobenzene | 14.848 | 112 | 991575 | 47.76 | ug/L | | 95 |
| 87) 1,1,1,2-tetrachloroethane | 14.896 | 131 | 404545 | 48.55 | ug/L | | 98 |
| 88) ethylbenzene | 14.917 | 91 | 1516954 | 45.76 | ug/L | | 99 |
| 89) m,p-xylene | 15.011 | 106 | 1191743 | 92.87 | ug/L | | 95 |
| 90) o-xylene | 15.388 | 106 | 599488 | 46.62 | ug/L | | 95 |
| 91) styrene | 15.388 | 104 | 1037988 | 47.89 | ug/L | | 93 |
| 92) bromoform | 15.593 | 173 | 380160 | 50.49 | ug/L | | 99 |
| 93) butyl acrylate | 15.215 | 55 | 935190 | 64.02 | ug/L | | 96 |
| 94) isopropylbenzene | 15.703 | 105 | 1495501 | 46.83 | ug/L | | 97 |
| 95) cis-1,4-dichloro-2-butene | 15.714 | 88 | 157231 | 49.46 | ug/L | | 93 |
| 98) bromobenzene | 16.044 | 156 | 442439 | 46.23 | ug/L | | 88 |
| 99) 1,1,2,2-tetrachloroethane | 15.918 | 83 | 553743 | 52.95 | ug/L | | 97 |
| 100) trans-1,4-dichloro-2-b... | 15.960 | 53 | 133880 | 66.30 | ug/L | | 97 |
| 101) 1,2,3-trichloropropane | 15.991 | 110 | 163465 | 51.89 | ug/L | | 98 |
| 102) n-propylbenzene | 16.075 | 91 | 1623242 | 46.42 | ug/L | | 97 |
| 103) 2-chlorotoluene | 16.196 | 126 | 391476 | 48.69 | ug/L | | 91 |
| 104) 4-chlorotoluene | 16.285 | 91 | 1022265 | 44.71 | ug/L | | 96 |
| 105) 1,3,5-trimethylbenzene | 16.212 | 105 | 1107472 | 44.79 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121706.d
Acq On : 30 Sep 2022 1:35 am
Operator : taylors
Sample : jd52514-2msd Inst : MS4D
Misc : MS62508,V4D5406,5,,,,10
ALS Vial : 37 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 21:03:31 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

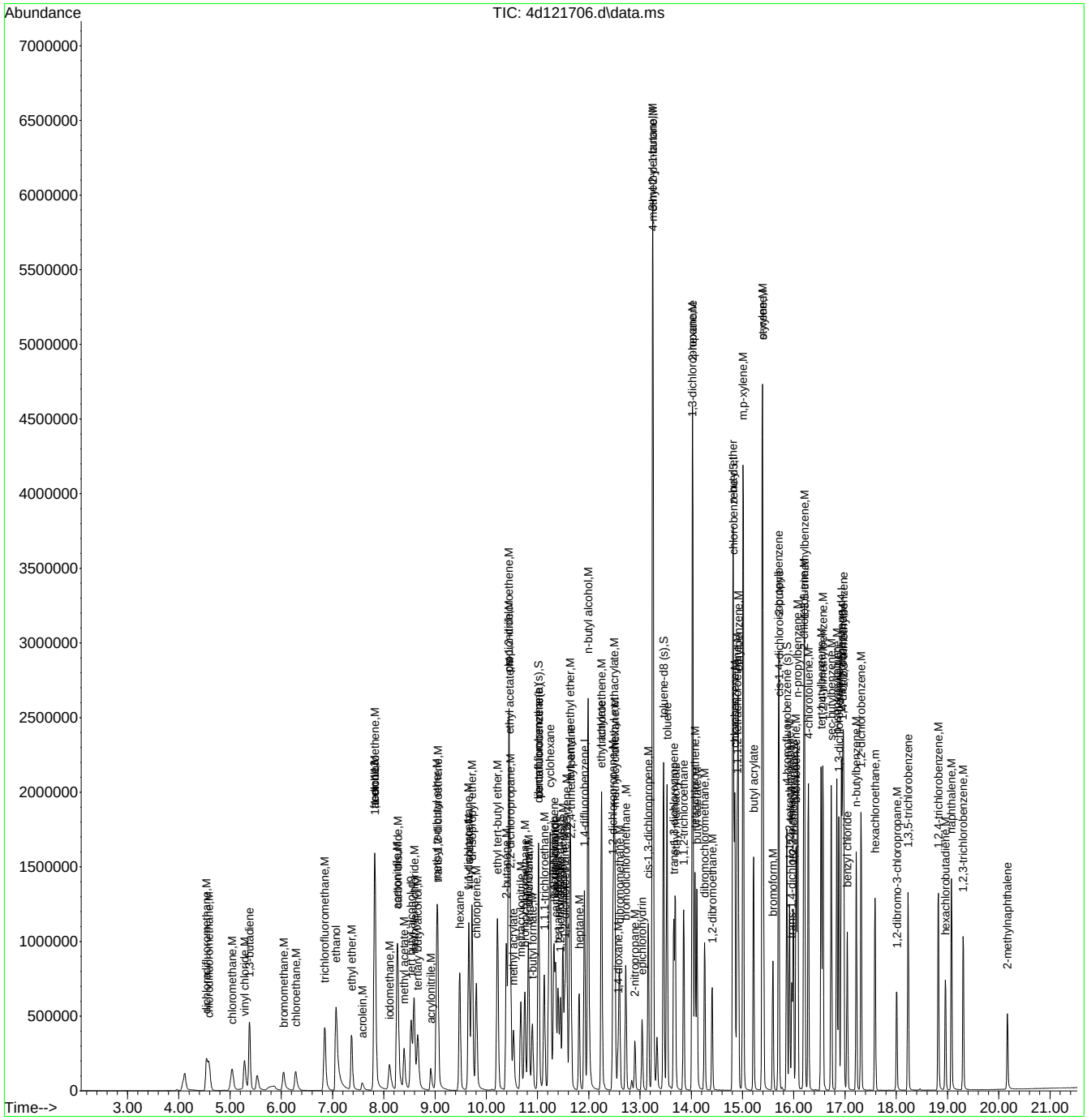
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) tert-butylbenzene | 16.537 | 134 | 233459 | 47.77 | ug/L | 96 |
| 107) 1,2,4-trimethylbenzene | 16.568 | 105 | 1090950 | 43.85 | ug/L | 97 |
| 108) sec-butylbenzene | 16.731 | 105 | 1325777 | 46.86 | ug/L | 98 |
| 109) 1,3-dichlorobenzene | 16.883 | 146 | 739521 | 46.62 | ug/L | 100 |
| 110) p-isopropyltoluene | 16.841 | 119 | 1111444 | 47.66 | ug/L | 97 |
| 111) 1,4-dichlorobenzene | 16.951 | 146 | 744843 | 44.51 | ug/L | 99 |
| 112) 1,2,3-trimethylbenzene | 16.972 | 105 | 1078830 | 44.12 | ug/L | 96 |
| 113) benzyl chloride | 17.045 | 91 | 674712 | 38.31 | ug/L | 98 |
| 114) 1,2-dichlorobenzene | 17.313 | 146 | 728775 | 48.73 | ug/L | 98 |
| 115) n-butylbenzene | 17.218 | 92 | 444834 | 41.36 | ug/L | 96 |
| 116) 1,2-dibromo-3-chloropr... | 18.010 | 157 | 178977 | 62.63 | ug/L | 95 |
| 117) 1,3,5-trichlorobenzene | 18.230 | 180 | 401658 | 45.72 | ug/L | 94 |
| 118) 1,2,4-trichlorobenzene | 18.823 | 180 | 342582 | 46.99 | ug/L | 96 |
| 119) hexachlorobutadiene | 18.959 | 225 | 139408 | 42.28 | ug/L | 98 |
| 120) naphthalene | 19.080 | 128 | 1100326 | 53.12 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 19.305 | 180 | 306949 | 51.35 | ug/L | 96 |
| 122) hexachloroethane | 17.585 | 201 | 198338 | 42.72 | ug/L | 98 |
| 123) 2-methylnaphthalene | 20.170 | 142 | 251919 | 42.12 | ug/L | 96 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121706.d
Acq On : 30 Sep 2022 1:35 am
Operator : taylors
Sample : jd52514-2msd Inst : MS4D
Misc : MS62508,V4D5406,5,,,,10
ALS Vial : 37 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 21:03:31 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220451.d
Acq On : 30 Sep 2022 3:35 pm
Operator : nicoleh
Sample : jd52514-12ms Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 21:26:13 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.251 | 65 | 536246 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.511 | 168 | 767509 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.434 | 114 | 1211541 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.558 | 117 | 1228623 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 636196 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.511 | 168 | 767509 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 395428 | 54.73 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 109.46% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.951 | 65 | 443772 | 39.40 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 78.80%# | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 1403600 | 46.63 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.26% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 627048 | 53.28 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.56% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 5.982 | 45 | 543070 | 4157.03 | ug/L | 100 |
| 3) tertiary butyl alcohol | 7.366 | 59 | 293686 | 222.93 | ug/L | 94 |
| 4) 1,4-dioxane | 11.078 | 88 | 101592 | 1100.31 | ug/L | 99 |
| 6) chlorodifluoromethane | 3.990 | 51 | 276795 | 26.45 | ug/L | 97 |
| 7) dichlorodifluoromethane | 3.964 | 85 | 488927 | 47.43 | ug/L | 99 |
| 8) chloromethane | 4.352 | 50 | 562177 | 42.15 | ug/L | 99 |
| 9) vinyl chloride | 4.572 | 62 | 528937 | 51.84 | ug/L | 99 |
| 10) 1,3-butadiene | 4.624 | 54 | 230786 | 25.39 | ug/L | 99 |
| 11) bromomethane | 5.196 | 94 | 310584 | 51.61 | ug/L | 98 |
| 12) chloroethane | 5.358 | 64 | 276664 | 57.28 | ug/L | 90 |
| 13) trichlorofluoromethane | 5.783 | 101 | 574209 | 50.23 | ug/L | 95 |
| 14) ethyl ether | 6.187 | 74 | 207684 | 57.02 | ug/L | 93 |
| 15) acrolein | 6.412 | 56 | 84728 | 51.98 | ug/L | 96 |
| 16) freon 113 | 6.617 | 151 | 302440 | 55.67 | ug/L | 98 |
| 17) 1,1-dichloroethene | 6.601 | 96 | 295463 | 51.89 | ug/L | 95 |
| 18) acetone | 6.606 | 43 | 531411 | 180.08 | ug/L | 91 |
| 19) acetonitrile | 7.015 | 41 | 594998 | 488.60 | ug/L | 99 |
| 20) iodomethane | 6.847 | 142 | 591606 | 53.23 | ug/L | 94 |
| 21) carbon disulfide | 6.989 | 76 | 953941 | 50.57 | ug/L | 92 |
| 22) methylene chloride | 7.303 | 84 | 378386 | 56.07 | ug/L | 94 |
| 23) methyl acetate | 7.062 | 43 | 363044 | 49.36 | ug/L | 100 |
| 24) methyl tert butyl ether | 7.660 | 73 | 1127910 | 55.55 | ug/L | 95 |
| 25) trans-1,2-dichloroethene | 7.686 | 96 | 373624 | 57.89 | ug/L | 97 |
| 26) hexane | 8.037 | 57 | 671637 | 58.56 | ug/L | 98 |
| 27) di-isopropyl ether | 8.252 | 45 | 1635766 | 58.19 | ug/L | 97 |
| 28) ethyl tert-butyl ether | 8.709 | 59 | 1445757 | 59.09 | ug/L | 100 |
| 29) 2-butanone | 8.903 | 72 | 169354 | 213.23 | ug/L | 96 |
| 30) 1,1-dichloroethane | 8.258 | 63 | 729574 | 57.82 | ug/L | 99 |
| 31) chloroprene | 8.357 | 53 | 673412 | 56.19 | ug/L | 94 |
| 32) acrylonitrile | 7.592 | 53 | 167184 | 51.35 | ug/L | 97 |
| 33) vinyl acetate | 8.200 | 86 | 78680 | 66.10 | ug/L # | 56 |
| 34) ethyl acetate | 8.924 | 45 | 75401 | 51.14 | ug/L # | 63 |
| 35) 2,2-dichloropropane | 8.997 | 77 | 601784 | 59.67 | ug/L | 97 |
| 36) cis-1,2-dichloroethene | 8.966 | 96 | 2817695 | 396.97 | ug/L | 92 |
| 37) propionitrile | 8.976 | 54 | 633918 | 522.06 | ug/L | 85 |
| 38) bromochloromethane | 9.259 | 130 | 275990 | 58.48 | ug/L | 94 |
| 39) tetrahydrofuran | 9.280 | 42 | 147236 | 43.73 | ug/L | 95 |
| 40) chloroform | 9.348 | 83 | 713105 | 54.39 | ug/L | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220451.d
Acq On : 30 Sep 2022 3:35 pm
Operator : nicoleh
Sample : jd52514-12ms Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 21:26:13 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) tert-butyl formate | 9.385 | 59 | 361097 | 56.64 | ug/L | | 95 |
| 42) isobutyl alcohol | 9.741 | 43 | 259211 | 510.12 | ug/L | | 96 |
| 44) methacrylonitrile | 9.175 | 67 | 169598 | 56.23 | ug/L | | 85 |
| 45) 1,1,1-trichloroethane | 9.605 | 97 | 633940 | 55.68 | ug/L | | 98 |
| 46) cyclohexane | 9.715 | 84 | 542386 | 57.01 | ug/L | | 95 |
| 47) 1,1-dichloropropene | 9.773 | 75 | 535450 | 58.41 | ug/L | | 98 |
| 48) tert-amyl alcohol | 9.909 | 73 | 126796 | 249.58 | ug/L | | 93 |
| 49) carbon tetrachloride | 9.799 | 117 | 555972 | 54.10 | ug/L | | 98 |
| 52) 2,2,4-trimethylpentane | 10.119 | 57 | 1741383 | 51.14 | ug/L | | 94 |
| 53) tert-amyl methyl ether | 10.103 | 73 | 1241968 | 49.77 | ug/L | | 98 |
| 54) n-butyl alcohol | 10.491 | 56 | 748057 | 2376.74 | ug/L | | 92 |
| 55) benzene | 10.019 | 78 | 1516901 | 52.77 | ug/L | | 97 |
| 56) heptane | 10.276 | 57 | 330364 | 47.55 | ug/L | | 98 |
| 57) isopropyl acetate | 9.935 | 87 | 91756 | 50.86 | ug/L | # | 93 |
| 58) 1,2-dichloroethane | 10.046 | 62 | 602836 | 44.63 | ug/L | | 99 |
| 59) trichloroethene | 10.743 | 95 | 504300 | 61.36 | ug/L | | 97 |
| 60) ethyl acrylate | 10.732 | 55 | 646412 | 49.53 | ug/L | | 99 |
| 61) 2-nitropropane | 11.498 | 41 | 122990 | 35.85 | ug/L | | 94 |
| 62) 2-chloroethyl vinyl ether | 11.535 | 63 | 219143 | 59.18 | ug/L | | 98 |
| 63) methyl methacrylate | 11.000 | 100 | 108106 | 52.47 | ug/L | # | 73 |
| 64) 1,2-dichloropropane | 11.031 | 63 | 439623 | 51.55 | ug/L | | 95 |
| 65) methylcyclohexane | 11.042 | 83 | 673896 | 50.11 | ug/L | | 98 |
| 66) dibromomethane | 11.141 | 93 | 262602 | 46.90 | ug/L | | 94 |
| 67) bromodichloromethane | 11.293 | 83 | 561651 | 48.46 | ug/L | | 99 |
| 68) epichlorohydrin | 11.618 | 57 | 225500 | 221.52 | ug/L | | 97 |
| 69) cis-1,3-dichloropropene | 11.755 | 75 | 670805 | 52.87 | ug/L | | 85 |
| 70) 4-methyl-2-pentanone | 11.860 | 58 | 757499 | 188.35 | ug/L | | 93 |
| 71) 3-methyl-1-butanol | 11.865 | 70 | 245930 | 991.46 | ug/L | # | 87 |
| 74) toluene | 12.132 | 92 | 931288 | 47.72 | ug/L | | 98 |
| 75) trans-1,3-dichloropropene | 12.321 | 75 | 599569 | 46.34 | ug/L | | 99 |
| 76) ethyl methacrylate | 12.316 | 69 | 546333 | 49.18 | ug/L | | 87 |
| 77) 1,1,2-trichloroethane | 12.536 | 83 | 303213 | 45.18 | ug/L | | 96 |
| 78) 2-hexanone | 12.704 | 58 | 714791 | 175.06 | ug/L | | 90 |
| 79) tetrachloroethene | 12.683 | 166 | 459487 | 47.29 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 12.720 | 76 | 573262 | 44.52 | ug/L | | 98 |
| 81) butyl acetate | 12.788 | 56 | 334385 | 47.66 | ug/L | | 94 |
| 82) dibromochloromethane | 12.961 | 129 | 432434 | 44.16 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.113 | 107 | 367277 | 44.20 | ug/L | | 96 |
| 84) n-butyl ether | 13.558 | 57 | 1723515 | 44.57 | ug/L | | 98 |
| 85) chlorobenzene | 13.590 | 112 | 1027262 | 48.26 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 13.658 | 131 | 395000 | 46.14 | ug/L | | 96 |
| 87) ethylbenzene | 13.658 | 91 | 1679786 | 45.90 | ug/L | | 95 |
| 88) m,p-xylene | 13.773 | 106 | 1272706 | 89.47 | ug/L | | 93 |
| 89) o-xylene | 14.177 | 91 | 1340634 | 44.88 | ug/L | | 98 |
| 90) styrene | 14.188 | 104 | 1034268 | 44.68 | ug/L | | 98 |
| 91) n-amyl acetate | 14.224 | 70 | 290182 | 48.04 | ug/L | # | 82 |
| 92) bromoform | 14.408 | 173 | 309221 | 43.91 | ug/L | | 97 |
| 93) butyl acrylate | 14.009 | 55 | 998070 | 48.44 | ug/L | | 100 |
| 94) isopropylbenzene | 14.523 | 105 | 1578918 | 44.33 | ug/L | | 99 |
| 95) cis-1,4-dichloro-2-butene | 14.560 | 88 | 115545 | 30.13 | ug/L | | 90 |
| 98) bromobenzene | 14.901 | 156 | 449151 | 44.11 | ug/L | | 99 |
| 99) 1,1,2,2-tetrachloroethane | 14.801 | 83 | 449128 | 41.54 | ug/L | | 98 |
| 100) trans-1,4-dichloro-2-b... | 14.832 | 53 | 103656 | 28.80 | ug/L | | 93 |
| 101) 1,2,3-trichloropropane | 14.885 | 110 | 109154 | 39.23 | ug/L | | 93 |
| 102) n-propylbenzene | 14.937 | 91 | 1919088 | 47.00 | ug/L | | 99 |
| 103) 2-chlorotoluene | 15.068 | 126 | 406612 | 45.75 | ug/L | | 95 |
| 104) 4-chlorotoluene | 15.179 | 91 | 1204957 | 46.40 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220451.d
Acq On : 30 Sep 2022 3:35 pm
Operator : nicoleh
Sample : jd52514-12ms Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 21:26:13 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

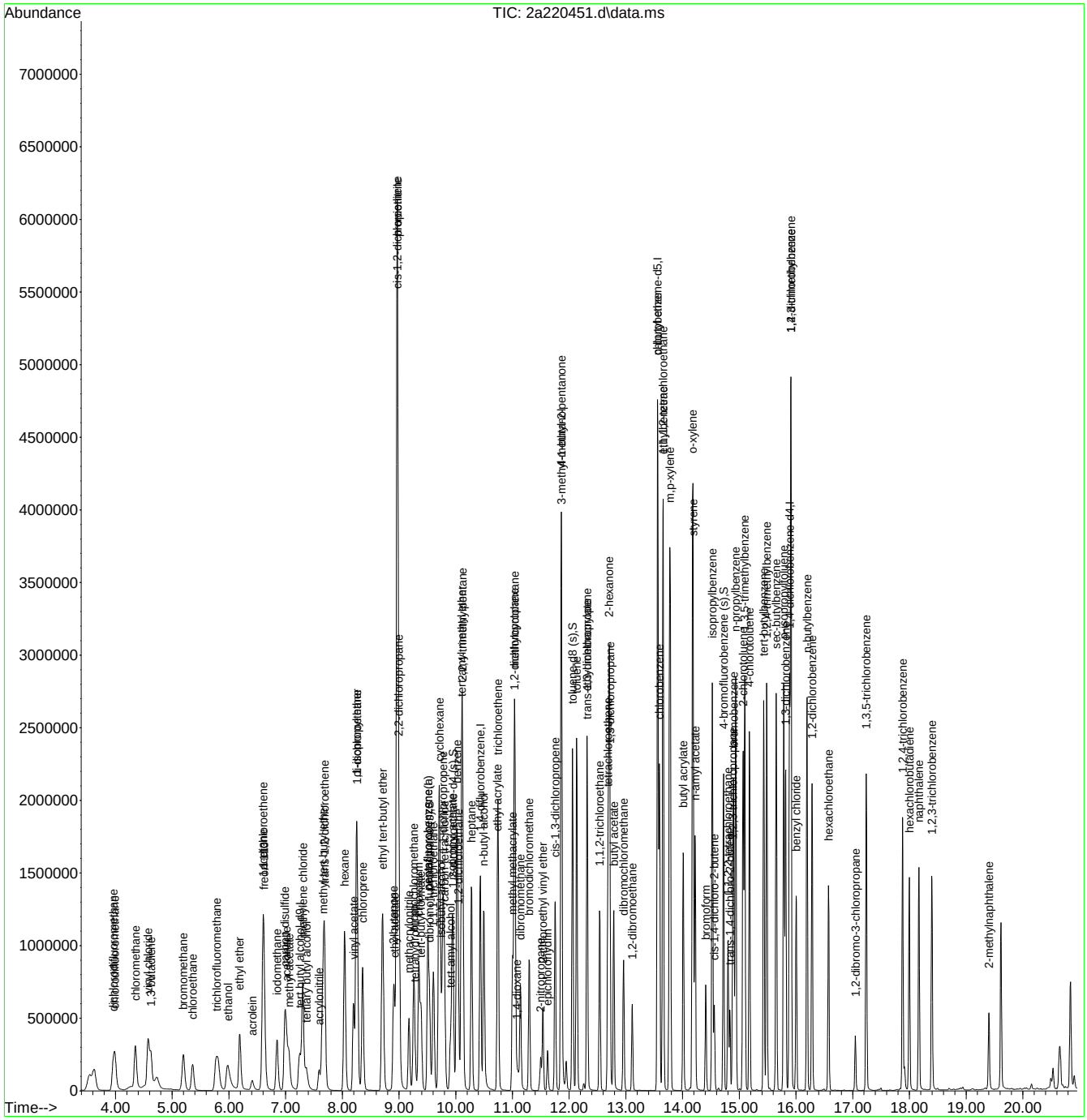
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 105) 1,3,5-trimethylbenzene | 15.095 | 105 | 1314824 | 46.36 | ug/L | 99 |
| 106) tert-butylbenzene | 15.430 | 119 | 1132143 | 46.08 | ug/L | 98 |
| 107) 1,2,4-trimethylbenzene | 15.483 | 105 | 1320534 | 45.71 | ug/L | 98 |
| 108) sec-butylbenzene | 15.650 | 105 | 1643855 | 44.87 | ug/L | 100 |
| 109) 1,3-dichlorobenzene | 15.818 | 146 | 803966 | 44.30 | ug/L | 98 |
| 110) p-isopropyltoluene | 15.781 | 119 | 1407583 | 45.05 | ug/L | 99 |
| 111) benzyl chloride | 16.002 | 91 | 834657 | 46.92 | ug/L | 99 |
| 112) 1,2,3-trimethylbenzene | 15.913 | 105 | 1315003 | 44.14 | ug/L | 97 |
| 113) 1,4-dichlorobenzene | 15.913 | 146 | 799026 | 42.34 | ug/L | 98 |
| 114) 1,2-dichlorobenzene | 16.285 | 146 | 778314 | 43.87 | ug/L | 99 |
| 115) n-butylbenzene | 16.196 | 92 | 738087 | 44.42 | ug/L | 98 |
| 116) 1,2-dibromo-3-chloropr... | 17.050 | 157 | 93241 | 39.72 | ug/L | 90 |
| 117) 1,3,5-trichlorobenzene | 17.239 | 180 | 635679 | 45.85 | ug/L | 98 |
| 118) 1,2,4-trichlorobenzene | 17.879 | 180 | 545376 | 45.74 | ug/L | 98 |
| 119) hexachlorobutadiene | 17.999 | 225 | 289856 | 47.24 | ug/L | 97 |
| 120) naphthalene | 18.167 | 128 | 1076339 | 37.89 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 18.398 | 180 | 463850 | 41.32 | ug/L | 98 |
| 122) hexachloroethane | 16.573 | 201 | 225967 | 44.18 | ug/L | 98 |
| 123) 2-methylnaphthalene | 19.404 | 142 | 253294 | 17.49 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220451.d
Acq On : 30 Sep 2022 3:35 pm
Operator : nicoleh
Sample : jd52514-12ms Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 21:26:13 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200658.d
Acq On : 30 Sep 2022 3:36 pm
Operator : taylors
Sample : jd52514-8ms Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,10
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 01 07:46:55 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.445 | 65 | 384455 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.512 | 168 | 435913 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.003 | 114 | 603639 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.079 | 117 | 568296 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 285509 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.512 | 113 | 193949 | 47.17 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.34% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.731 | 65 | 218545 | 47.37 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 94.74% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 676296 | 49.75 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.50% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 242300 | 48.88 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.76% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 1.948 | 45 | 191325 | 5203.79 | ug/L | 98 |
| 3) tertiary butyl alcohol | 2.498 | 59 | 138242 | 237.67 | ug/L | 99 |
| 4) 1,4-dioxane | 4.382 | 88 | 59905 | 1295.66 | ug/L | 95 |
| 6) chlorodifluoromethane | 1.260 | 51 | 137700 | 37.04 | ug/L | 99 |
| 7) dichlorodifluoromethane | 1.244 | 85 | 147124 | 42.14 | ug/L | 99 |
| 8) chloromethane | 1.372 | 50 | 148895 | 40.86 | ug/L | 99 |
| 9) vinyl chloride | 1.436 | 62 | 176552 | 45.90 | ug/L | 100 |
| 10) bromomethane | 1.639 | 96 | 24678 | 46.25 | ug/L | 98 |
| 11) chloroethane | 1.708 | 64 | 63488 | 37.27 | ug/L | 99 |
| 12) trichlorofluoromethane | 1.863 | 101 | 213164 | 42.32 | ug/L | 99 |
| 13) 1,3-butadiene | 1.463 | 54 | 156269 | 50.88 | ug/L | 98 |
| 14) ethyl ether | 2.023 | 74 | 55084 | 43.00 | ug/L | 94 |
| 15) acrolein | 2.109 | 56 | 33483 | 46.20 | ug/L | 99 |
| 16) 1,1-dichloroethene | 2.173 | 96 | 102638 | 42.17 | ug/L | 99 |
| 17) freon 113 | 2.167 | 101 | 124096 | 41.82 | ug/L | 97 |
| 18) acetone | 2.189 | 58 | 68830 | 166.57 | ug/L | 100 |
| 19) acetonitrile | 2.354 | 41 | 252323 | 441.41 | ug/L | 99 |
| 20) iodomethane | 2.269 | 142 | 47898 | 42.90 | ug/L | 99 |
| 21) carbon disulfide | 2.322 | 76 | 246879 | 40.37 | ug/L | 98 |
| 22) methylene chloride | 2.461 | 84 | 100147 | 42.45 | ug/L | 97 |
| 23) methyl acetate | 2.365 | 43 | 147629 | 43.99 | ug/L | 100 |
| 24) methyl tert butyl ether | 2.610 | 73 | 304657 | 43.35 | ug/L | 98 |
| 25) acrylonitrile | 2.589 | 53 | 68372 | 43.89 | ug/L | 98 |
| 26) trans-1,2-dichloroethene | 2.621 | 96 | 114438 | 43.43 | ug/L | 98 |
| 27) hexane | 2.776 | 57 | 177643 | 42.74 | ug/L | 97 |
| 28) di-isopropyl ether | 2.877 | 45 | 390067 | 44.53 | ug/L | 95 |
| 29) 2-butanone | 3.197 | 72 | 93474 | 204.58 | ug/L | 93 |
| 30) 1,1-dichloroethane | 2.877 | 63 | 192923 | 42.21 | ug/L | 100 |
| 31) chloroprene | 2.925 | 53 | 186802 | 43.20 | ug/L | 97 |
| 32) vinyl acetate | 2.861 | 86 | 24198 | 47.67 | ug/L | 98 |
| 33) ethyl tert-butyl ether | 3.096 | 59 | 348254 | 44.51 | ug/L | 99 |
| 34) ethyl acetate | 3.208 | 45 | 31166 | 45.18 | ug/L | 90 |
| 35) 2,2-dichloropropane | 3.224 | 77 | 172533 | 45.48 | ug/L | 90 |
| 36) cis-1,2-dichloroethene | 3.219 | 96 | 999777 | 351.57 | ug/L | 91 |
| 37) methyl acrylate | 3.245 | 55 | 202532 | 47.11 | ug/L | 97 |
| 38) propionitrile | 3.240 | 54 | 298553 | 459.16 | ug/L | 82 |
| 39) tert-butyl formate | 3.432 | 59 | 77456 | 45.38 | ug/L | 96 |
| 40) bromochloromethane | 3.363 | 128 | 61407 | 42.33 | ug/L | 94 |
| 41) tetrahydrofuran | 3.373 | 42 | 63925 | 43.88 | ug/L | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200658.d
Acq On : 30 Sep 2022 3:36 pm
Operator : taylors
Sample : jd52514-8ms Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,10
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 01 07:46:55 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) chloroform | 3.416 | 83 | 193371 | 41.03 | ug/L | | 99 |
| 44) methacrylonitrile | 3.331 | 67 | 63942 | 47.06 | ug/L | | 97 |
| 45) 1,1,1-trichloroethane | 3.533 | 97 | 186962 | 41.49 | ug/L | | 99 |
| 46) cyclohexane | 3.582 | 84 | 167017 | 40.54 | ug/L | | 95 |
| 47) tert amyl alcohol | 3.720 | 55 | 57346 | 247.45 | ug/L | | 89 |
| 48) 1,1-dichloropropene | 3.630 | 75 | 157677 | 42.58 | ug/L | | 100 |
| 49) isobutyl alcohol | 3.811 | 42 | 24867 | 426.09 | ug/L | # | 91 |
| 50) carbon tetrachloride | 3.630 | 117 | 165962 | 41.69 | ug/L | | 99 |
| 51) isopropyl acetate | 3.742 | 87 | 30905 | 48.78 | ug/L | | 99 |
| 54) iso-octane | 3.811 | 57 | 363298 | 43.38 | ug/L | | 99 |
| 55) epichlorohydrin | 4.724 | 57 | 106462 | 253.66 | ug/L | | 98 |
| 56) n-butyl alcohol | 4.062 | 56 | 364837 | 2708.79 | ug/L | | 99 |
| 57) benzene | 3.758 | 78 | 432649 | 42.72 | ug/L | | 99 |
| 58) tert-amyl methyl ether | 3.816 | 73 | 313071 | 46.86 | ug/L | | 99 |
| 59) heptane | 3.912 | 57 | 70516 | 46.70 | ug/L | | 99 |
| 60) 1,2-dichloroethane | 3.779 | 62 | 161469 | 42.28 | ug/L | | 99 |
| 61) trichloroethene | 4.169 | 130 | 224423 | 71.17 | ug/L | | 98 |
| 62) ethyl acrylate | 4.190 | 55 | 205450 | 49.84 | ug/L | | 99 |
| 63) 2-nitropropane | 4.649 | 41 | 54101 | 53.34 | ug/L | | 100 |
| 64) 2-chloroethyl vinyl ether | 4.681 | 63 | 84806 | 48.34 | ug/L | | 99 |
| 65) methyl methacrylate | 4.350 | 100 | 39789 | 48.47 | ug/L | # | 73 |
| 66) 1,2-dichloropropane | 4.339 | 76 | 45877 | 46.35 | ug/L | | 100 |
| 67) dibromomethane | 4.403 | 93 | 74509 | 43.47 | ug/L | | 91 |
| 68) methylcyclohexane | 4.329 | 83 | 187098 | 44.07 | ug/L | | 99 |
| 69) bromodichloromethane | 4.510 | 83 | 134770 | 46.10 | ug/L | | 99 |
| 70) cis-1,3-dichloropropene | 4.804 | 75 | 163732 | 48.34 | ug/L | | 97 |
| 71) 4-methyl-2-pentanone | 4.889 | 58 | 280223 | 202.03 | ug/L | | 99 |
| 72) 3-methyl-1-butanol | 4.916 | 70 | 119715 | 1113.01 | ug/L | | 97 |
| 75) toluene | 5.049 | 92 | 280494 | 45.08 | ug/L | | 99 |
| 76) trans-1,3-dichloropropene | 5.199 | 75 | 149654 | 48.09 | ug/L | | 100 |
| 77) ethyl methacrylate | 5.220 | 69 | 149791 | 47.80 | ug/L | | 99 |
| 78) 1,1,2-trichloroethane | 5.348 | 83 | 88008 | 46.69 | ug/L | | 97 |
| 79) tetrachloroethene | 5.423 | 164 | 112154 | 44.93 | ug/L | | 96 |
| 80) 1,3-dichloropropane | 5.471 | 76 | 162704 | 45.06 | ug/L | | 98 |
| 81) 2-hexanone | 5.492 | 58 | 288051 | 196.71 | ug/L | | 98 |
| 82) butyl acetate | 5.567 | 56 | 96703 | 46.45 | ug/L | | 100 |
| 83) dibromochloromethane | 5.636 | 129 | 119586 | 48.28 | ug/L | | 99 |
| 84) 1,2-dibromoethane | 5.732 | 107 | 120301 | 47.83 | ug/L | | 96 |
| 85) n-butyl ether | 6.149 | 57 | 447755 | 44.41 | ug/L | | 100 |
| 86) chlorobenzene | 6.101 | 112 | 317861 | 45.02 | ug/L | | 98 |
| 87) 1,1,1,2-tetrachloroethane | 6.165 | 131 | 116456 | 47.97 | ug/L | | 98 |
| 88) ethylbenzene | 6.170 | 91 | 520792 | 43.67 | ug/L | | 100 |
| 89) m,p-xylene | 6.271 | 106 | 415968 | 88.64 | ug/L | | 97 |
| 90) o-xylene | 6.576 | 91 | 398407 | 44.70 | ug/L | | 99 |
| 91) styrene | 6.592 | 104 | 341915 | 45.21 | ug/L | | 95 |
| 92) butyl acrylate | 6.511 | 55 | 247180 | 48.35 | ug/L | | 99 |
| 93) n-amyl acetate | 6.688 | 70 | 83232 | 48.94 | ug/L | | 97 |
| 94) bromoform | 6.741 | 173 | 82697 | 50.28 | ug/L | | 99 |
| 95) isopropylbenzene | 6.864 | 105 | 516432 | 44.44 | ug/L | | 99 |
| 96) cis-1,4-dichloro-2-butene | 6.912 | 88 | 33328 | 30.21 | ug/L | | 98 |
| 99) bromobenzene | 7.125 | 156 | 142259 | 45.39 | ug/L | | 92 |
| 100) 1,1,2,2-tetrachloroethane | 7.104 | 83 | 158110 | 50.94 | ug/L | | 99 |
| 101) trans-1,4-dichloro-2-b... | 7.136 | 53 | 34263 | 37.94 | ug/L | | 91 |
| 102) 1,2,3-trichloropropane | 7.157 | 110 | 50190 | 48.98 | ug/L | | 96 |
| 103) n-propylbenzene | 7.195 | 91 | 581064 | 44.83 | ug/L | | 99 |
| 104) 2-chlorotoluene | 7.269 | 126 | 131686 | 45.75 | ug/L | | 97 |
| 105) 4-chlorotoluene | 7.360 | 91 | 337147 | 44.65 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200658.d
Acq On : 30 Sep 2022 3:36 pm
Operator : taylors
Sample : jd52514-8ms Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,10
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 01 07:46:55 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

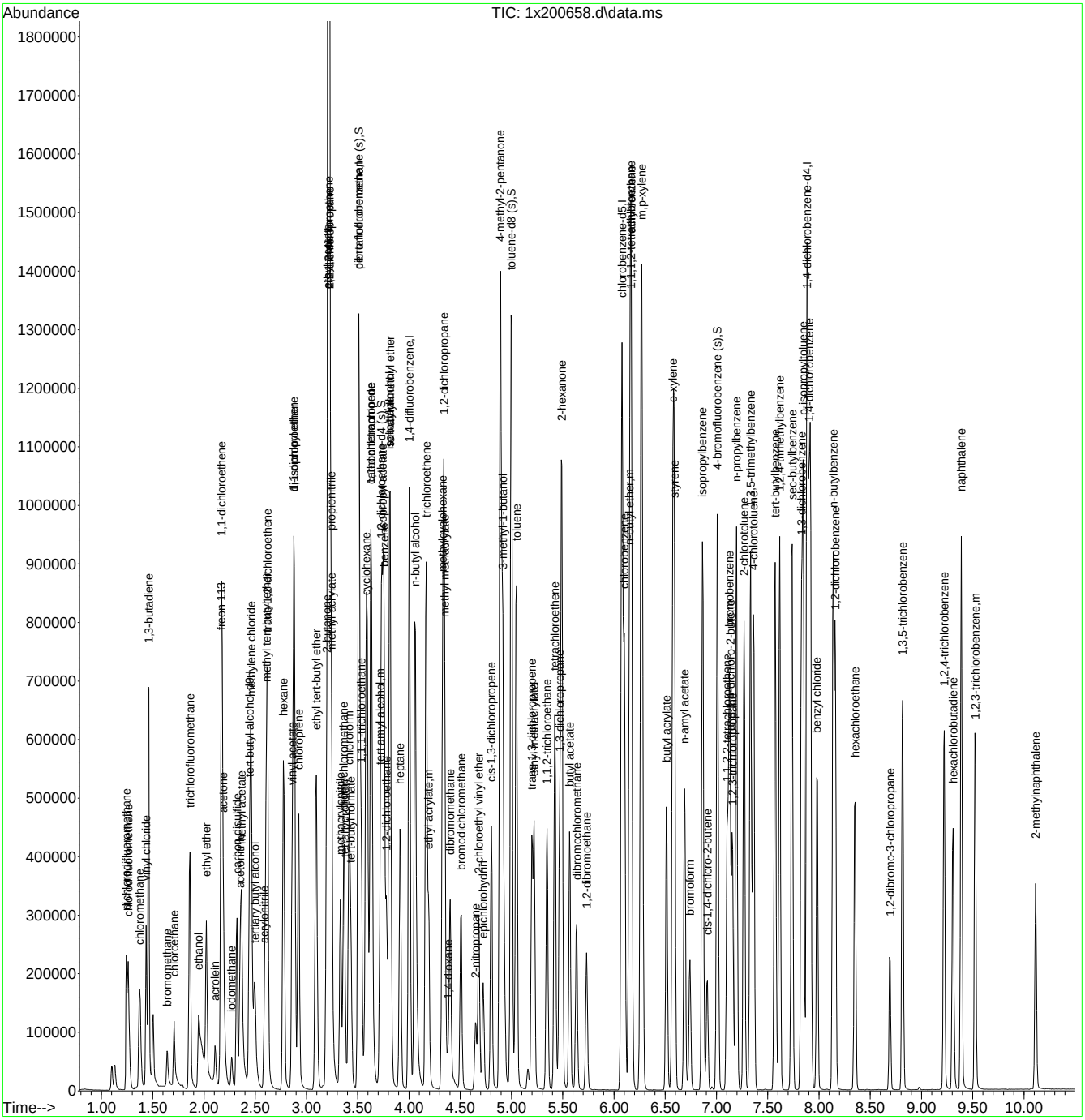
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) 1,3,5-trimethylbenzene | 7.333 | 105 | 393337 | 46.48 | ug/L | 98 |
| 107) tert-butylbenzene | 7.574 | 119 | 370342 | 44.98 | ug/L | 99 |
| 108) 1,2,4-trimethylbenzene | 7.616 | 105 | 390269 | 45.54 | ug/L | 98 |
| 109) sec-butylbenzene | 7.739 | 105 | 519053 | 45.85 | ug/L | 98 |
| 110) 1,3-dichlorobenzene | 7.830 | 146 | 258757 | 46.14 | ug/L | 99 |
| 111) p-isopropyltoluene | 7.846 | 119 | 444113 | 46.28 | ug/L | 99 |
| 112) 1,4-dichlorobenzene | 7.904 | 146 | 263854 | 45.65 | ug/L | 98 |
| 113) 1,2-dichlorobenzene | 8.161 | 146 | 246305 | 46.97 | ug/L | 99 |
| 114) benzyl chloride | 7.979 | 91 | 273178 | 58.90 | ug/L | 99 |
| 115) n-butylbenzene | 8.139 | 92 | 197692 | 46.82 | ug/L | 98 |
| 116) 1,2-dibromo-3-chloropr... | 8.694 | 157 | 47772 | 51.39 | ug/L | 94 |
| 117) 1,3,5-trichlorobenzene | 8.817 | 180 | 157790 | 46.83 | ug/L | 97 |
| 118) hexachlorobutadiene | 9.308 | 225 | 55819 | 46.47 | ug/L | 97 |
| 119) naphthalene | 9.388 | 128 | 521532 | 47.30 | ug/L | 99 |
| 120) 1,2,4-trichlorobenzene | 9.223 | 180 | 140780 | 47.96 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 9.527 | 180 | 135562 | 47.40 | ug/L | 98 |
| 122) hexachloroethane | 8.353 | 201 | 49831 | 39.95 | ug/L | 91 |
| 123) 2-methylnaphthalene | 10.114 | 142 | 135430 | 25.15 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200658.d
Acq On : 30 Sep 2022 3:36 pm
Operator : taylors
Sample : jd52514-8ms Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,10
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 01 07:46:55 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200659.d
Acq On : 30 Sep 2022 3:59 pm
Operator : taylors
Sample : jd52514-8msd Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,10
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 01 07:47:01 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.445 | 65 | 391305 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.512 | 168 | 449791 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.003 | 114 | 619300 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.079 | 117 | 582485 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.889 | 152 | 292512 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.512 | 113 | 198508 | 46.78 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.56% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.731 | 65 | 225175 | 47.57 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 95.14% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 690558 | 49.56 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.12% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 248573 | 48.95 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.90% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 1.943 | 45 | 207113 | 5534.59 | ug/L | 95 |
| 3) tertiary butyl alcohol | 2.493 | 59 | 148323 | 250.53 | ug/L | 94 |
| 4) 1,4-dioxane | 4.382 | 88 | 63205 | 1343.10 | ug/L | 97 |
| 6) chlorodifluoromethane | 1.255 | 51 | 145018 | 37.81 | ug/L | 99 |
| 7) dichlorodifluoromethane | 1.239 | 85 | 155048 | 43.04 | ug/L | 100 |
| 8) chloromethane | 1.367 | 50 | 158345 | 42.12 | ug/L | 97 |
| 9) vinyl chloride | 1.431 | 62 | 184634 | 46.52 | ug/L | 100 |
| 10) bromomethane | 1.639 | 96 | 30052 | 54.59 | ug/L | 97 |
| 11) chloroethane | 1.703 | 64 | 66151 | 37.63 | ug/L | 100 |
| 12) trichlorofluoromethane | 1.858 | 101 | 223943 | 43.09 | ug/L | 100 |
| 13) 1,3-butadiene | 1.458 | 54 | 159028 | 50.18 | ug/L | 98 |
| 14) ethyl ether | 2.018 | 74 | 59739 | 45.19 | ug/L | 90 |
| 15) acrolein | 2.109 | 56 | 34214 | 45.76 | ug/L | 97 |
| 16) 1,1-dichloroethene | 2.173 | 96 | 107894 | 42.97 | ug/L | 98 |
| 17) freon 113 | 2.167 | 101 | 129474 | 42.28 | ug/L | 98 |
| 18) acetone | 2.183 | 58 | 72991 | 171.19 | ug/L | 100 |
| 19) acetonitrile | 2.349 | 41 | 267320 | 453.22 | ug/L | 100 |
| 20) iodomethane | 2.269 | 142 | 73030 | 63.39 | ug/L | 97 |
| 21) carbon disulfide | 2.317 | 76 | 264573 | 41.93 | ug/L | 99 |
| 22) methylene chloride | 2.456 | 84 | 109043 | 44.80 | ug/L | 95 |
| 23) methyl acetate | 2.365 | 43 | 156829 | 45.29 | ug/L | 100 |
| 24) methyl tert butyl ether | 2.605 | 73 | 330837 | 45.62 | ug/L | 100 |
| 25) acrylonitrile | 2.589 | 53 | 69289 | 43.11 | ug/L | 98 |
| 26) trans-1,2-dichloroethene | 2.621 | 96 | 123037 | 45.26 | ug/L | 99 |
| 27) hexane | 2.776 | 57 | 187174 | 43.64 | ug/L | 100 |
| 28) di-isopropyl ether | 2.877 | 45 | 419488 | 46.41 | ug/L | 99 |
| 29) 2-butanone | 3.197 | 72 | 98771 | 209.51 | ug/L | 98 |
| 30) 1,1-dichloroethane | 2.877 | 63 | 206981 | 43.89 | ug/L | 99 |
| 31) chloroprene | 2.920 | 53 | 200153 | 44.86 | ug/L | 99 |
| 32) vinyl acetate | 2.861 | 86 | 27228 | 51.98 | ug/L | 99 |
| 33) ethyl tert-butyl ether | 3.091 | 59 | 376558 | 46.64 | ug/L | 100 |
| 34) ethyl acetate | 3.208 | 45 | 36465 | 51.23 | ug/L | 79 |
| 35) 2,2-dichloropropane | 3.224 | 77 | 184922 | 47.24 | ug/L | 92 |
| 36) cis-1,2-dichloroethene | 3.219 | 96 | 1061740 | 361.84 | ug/L | 90 |
| 37) methyl acrylate | 3.245 | 55 | 216772 | 48.86 | ug/L | 99 |
| 38) propionitrile | 3.240 | 54 | 314929 | 469.41 | ug/L | 93 |
| 39) tert-butyl formate | 3.427 | 59 | 83544 | 47.44 | ug/L | 96 |
| 40) bromochloromethane | 3.363 | 128 | 65546 | 43.79 | ug/L | 93 |
| 41) tetrahydrofuran | 3.368 | 42 | 67084 | 44.62 | ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200659.d
Acq On : 30 Sep 2022 3:59 pm
Operator : taylors
Sample : jd52514-8msd Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,10
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 01 07:47:01 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) chloroform | 3.411 | 83 | 208525 | 42.88 | ug/L | | 98 |
| 44) methacrylonitrile | 3.331 | 67 | 68146 | 48.61 | ug/L | | 99 |
| 45) 1,1,1-trichloroethane | 3.534 | 97 | 197901 | 42.56 | ug/L | | 98 |
| 46) cyclohexane | 3.582 | 84 | 175269 | 41.23 | ug/L | | 98 |
| 47) tert amyl alcohol | 3.720 | 55 | 58993 | 246.70 | ug/L | | 95 |
| 48) 1,1-dichloropropene | 3.624 | 75 | 165950 | 43.43 | ug/L | | 98 |
| 49) isobutyl alcohol | 3.811 | 42 | 26130 | 433.91 | ug/L | # | 90 |
| 50) carbon tetrachloride | 3.630 | 117 | 176596 | 42.99 | ug/L | | 99 |
| 51) isopropyl acetate | 3.742 | 87 | 33548 | 51.32 | ug/L | | 98 |
| 54) iso-octane | 3.811 | 57 | 379484 | 44.17 | ug/L | | 99 |
| 55) epichlorohydrin | 4.724 | 57 | 113252 | 263.01 | ug/L | | 99 |
| 56) n-butyl alcohol | 4.057 | 56 | 384676 | 2783.86 | ug/L | | 99 |
| 57) benzene | 3.752 | 78 | 465112 | 44.77 | ug/L | | 98 |
| 58) tert-amyl methyl ether | 3.811 | 73 | 340936 | 49.74 | ug/L | | 99 |
| 59) heptane | 3.913 | 57 | 72036 | 46.50 | ug/L | | 98 |
| 60) 1,2-dichloroethane | 3.779 | 62 | 174071 | 44.42 | ug/L | | 98 |
| 61) trichloroethene | 4.169 | 130 | 237635 | 73.45 | ug/L | | 99 |
| 62) ethyl acrylate | 4.190 | 55 | 218538 | 51.67 | ug/L | | 99 |
| 63) 2-nitropropane | 4.649 | 41 | 55660 | 53.49 | ug/L | | 97 |
| 64) 2-chloroethyl vinyl ether | 4.681 | 63 | 64390 | 35.77 | ug/L | | 98 |
| 65) methyl methacrylate | 4.350 | 100 | 43620 | 51.79 | ug/L | # | 63 |
| 66) 1,2-dichloropropane | 4.340 | 76 | 48243 | 47.50 | ug/L | | 97 |
| 67) dibromomethane | 4.398 | 93 | 79524 | 45.22 | ug/L | | 97 |
| 68) methylcyclohexane | 4.329 | 83 | 196599 | 45.14 | ug/L | | 98 |
| 69) bromodichloromethane | 4.505 | 83 | 146253 | 48.76 | ug/L | | 98 |
| 70) cis-1,3-dichloropropene | 4.804 | 75 | 179088 | 51.53 | ug/L | | 99 |
| 71) 4-methyl-2-pentanone | 4.889 | 58 | 297136 | 208.80 | ug/L | | 99 |
| 72) 3-methyl-1-butanol | 4.916 | 70 | 127019 | 1151.06 | ug/L | | 97 |
| 75) toluene | 5.049 | 92 | 300896 | 47.18 | ug/L | | 98 |
| 76) trans-1,3-dichloropropene | 5.199 | 75 | 164597 | 51.60 | ug/L | | 99 |
| 77) ethyl methacrylate | 5.220 | 69 | 160061 | 49.84 | ug/L | | 98 |
| 78) 1,1,2-trichloroethane | 5.348 | 83 | 93189 | 48.23 | ug/L | | 98 |
| 79) tetrachloroethene | 5.423 | 164 | 119914 | 46.87 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 5.471 | 76 | 174114 | 47.05 | ug/L | | 99 |
| 81) 2-hexanone | 5.492 | 58 | 303441 | 202.17 | ug/L | | 99 |
| 82) butyl acetate | 5.567 | 56 | 102887 | 48.22 | ug/L | | 99 |
| 83) dibromochloromethane | 5.636 | 129 | 129013 | 50.81 | ug/L | | 100 |
| 84) 1,2-dibromoethane | 5.732 | 107 | 129057 | 50.07 | ug/L | | 99 |
| 85) n-butyl ether | 6.149 | 57 | 479564 | 46.41 | ug/L | | 99 |
| 86) chlorobenzene | 6.101 | 112 | 342901 | 47.39 | ug/L | | 99 |
| 87) 1,1,1,2-tetrachloroethane | 6.165 | 131 | 126759 | 50.94 | ug/L | | 100 |
| 88) ethylbenzene | 6.170 | 91 | 557620 | 45.62 | ug/L | | 99 |
| 89) m,p-xylene | 6.271 | 106 | 443460 | 92.19 | ug/L | | 99 |
| 90) o-xylene | 6.576 | 91 | 428981 | 46.96 | ug/L | | 99 |
| 91) styrene | 6.592 | 104 | 368252 | 47.50 | ug/L | | 96 |
| 92) butyl acrylate | 6.512 | 55 | 262486 | 50.10 | ug/L | | 99 |
| 93) n-amyl acetate | 6.688 | 70 | 88747 | 50.92 | ug/L | | 96 |
| 94) bromoform | 6.741 | 173 | 89079 | 52.84 | ug/L | | 99 |
| 95) isopropylbenzene | 6.864 | 105 | 554560 | 46.56 | ug/L | | 99 |
| 96) cis-1,4-dichloro-2-butene | 6.912 | 88 | 37718 | 33.07 | ug/L | | 97 |
| 99) bromobenzene | 7.125 | 156 | 152957 | 47.64 | ug/L | | 94 |
| 100) 1,1,2,2-tetrachloroethane | 7.104 | 83 | 168845 | 53.10 | ug/L | | 100 |
| 101) trans-1,4-dichloro-2-b... | 7.136 | 53 | 37689 | 40.74 | ug/L | | 93 |
| 102) 1,2,3-trichloropropane | 7.157 | 110 | 53239 | 50.71 | ug/L | | 96 |
| 103) n-propylbenzene | 7.195 | 91 | 623479 | 46.95 | ug/L | | 99 |
| 104) 2-chlorotoluene | 7.269 | 126 | 140460 | 47.63 | ug/L | | 96 |
| 105) 4-chlorotoluene | 7.360 | 91 | 363834 | 47.03 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200659.d
Acq On : 30 Sep 2022 3:59 pm
Operator : taylors
Sample : jd52514-8msd Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,10
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 01 07:47:01 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

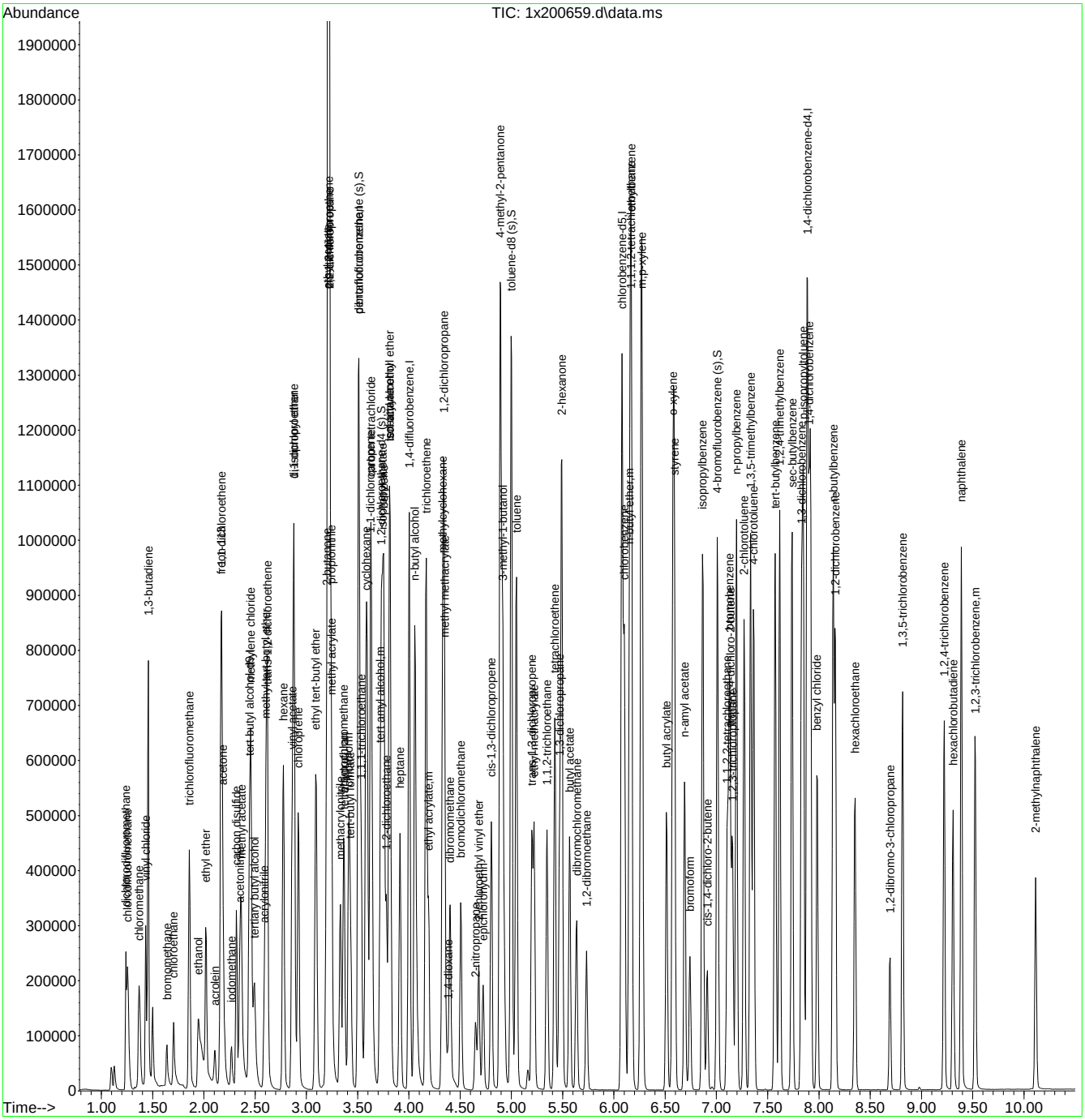
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) 1,3,5-trimethylbenzene | 7.334 | 105 | 421153 | 48.58 | ug/L | 99 |
| 107) tert-butylbenzene | 7.574 | 119 | 394629 | 46.79 | ug/L | 98 |
| 108) 1,2,4-trimethylbenzene | 7.616 | 105 | 421834 | 48.04 | ug/L | 99 |
| 109) sec-butylbenzene | 7.739 | 105 | 551147 | 47.52 | ug/L | 99 |
| 110) 1,3-dichlorobenzene | 7.830 | 146 | 277327 | 48.27 | ug/L | 98 |
| 111) p-isopropyltoluene | 7.846 | 119 | 474098 | 48.22 | ug/L | 98 |
| 112) 1,4-dichlorobenzene | 7.905 | 146 | 281909 | 47.60 | ug/L | 99 |
| 113) 1,2-dichlorobenzene | 8.161 | 146 | 264424 | 49.21 | ug/L | 99 |
| 114) benzyl chloride | 7.979 | 91 | 288102 | 60.63 | ug/L | 98 |
| 115) n-butylbenzene | 8.139 | 92 | 210835 | 48.74 | ug/L | 98 |
| 116) 1,2-dibromo-3-chloropr... | 8.694 | 157 | 49766 | 52.26 | ug/L | 94 |
| 117) 1,3,5-trichlorobenzene | 8.817 | 180 | 170394 | 49.35 | ug/L | 98 |
| 118) hexachlorobutadiene | 9.308 | 225 | 58638 | 47.65 | ug/L | 98 |
| 119) naphthalene | 9.388 | 128 | 553866 | 49.03 | ug/L | 99 |
| 120) 1,2,4-trichlorobenzene | 9.223 | 180 | 150871 | 50.16 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 9.527 | 180 | 145638 | 49.71 | ug/L | 99 |
| 122) hexachloroethane | 8.353 | 201 | 54222 | 42.35 | ug/L | 92 |
| 123) 2-methylnaphthalene | 10.114 | 142 | 146496 | 26.55 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200659.d
Acq On : 30 Sep 2022 3:59 pm
Operator : taylors
Sample : jd52514-8msd Inst : ACC-VOA-MSX
Misc : MS62508,V1X8639,5,,,,10
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 01 07:47:01 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220452.d
Acq On : 30 Sep 2022 4:03 pm
Operator : nicoleh
Sample : jd52514-12msd Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 03 11:09:44 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.240 | 65 | 531321 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.505 | 168 | 768609 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.433 | 114 | 1217767 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.563 | 117 | 1225838 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 642810 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.505 | 168 | 768084 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 394805 | 54.57 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 109.14% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.951 | 65 | 446277 | 39.42 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 78.84%# | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 1409595 | 46.94 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.88% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 634614 | 53.37 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.74% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 5.972 | 45 | 521298 | 4027.36 | ug/L | 98 |
| 3) tertiary butyl alcohol | 7.361 | 59 | 296091 | 226.84 | ug/L | 93 |
| 4) 1,4-dioxane | 11.078 | 88 | 101105 | 1105.19 | ug/L | 99 |
| 6) chlorodifluoromethane | 3.990 | 51 | 281791 | 26.89 | ug/L | 97 |
| 7) dichlorodifluoromethane | 3.953 | 85 | 496799 | 48.12 | ug/L | 99 |
| 8) chloromethane | 4.341 | 50 | 561628 | 42.04 | ug/L | 99 |
| 9) vinyl chloride | 4.566 | 62 | 540124 | 52.86 | ug/L | 97 |
| 10) 1,3-butadiene | 4.619 | 54 | 237527 | 26.10 | ug/L | 91 |
| 11) bromomethane | 5.190 | 94 | 313878 | 52.08 | ug/L | 97 |
| 12) chloroethane | 5.348 | 64 | 279124 | 57.70 | ug/L | 92 |
| 13) trichlorofluoromethane | 5.778 | 101 | 583646 | 50.99 | ug/L | 99 |
| 14) ethyl ether | 6.187 | 74 | 209101 | 57.33 | ug/L | 92 |
| 15) acrolein | 6.407 | 56 | 84348 | 51.67 | ug/L | 95 |
| 16) freon 113 | 6.611 | 151 | 306146 | 56.27 | ug/L | 95 |
| 17) 1,1-dichloroethene | 6.595 | 96 | 303495 | 53.22 | ug/L | 90 |
| 18) acetone | 6.601 | 43 | 518226 | 175.36 | ug/L | 93 |
| 19) acetonitrile | 7.010 | 41 | 596224 | 488.91 | ug/L | 97 |
| 20) iodomethane | 6.842 | 142 | 586176 | 52.66 | ug/L | 92 |
| 21) carbon disulfide | 6.978 | 76 | 954023 | 50.50 | ug/L | 92 |
| 22) methylene chloride | 7.298 | 84 | 377797 | 55.91 | ug/L | 95 |
| 23) methyl acetate | 7.057 | 43 | 354208 | 48.09 | ug/L | 97 |
| 24) methyl tert butyl ether | 7.649 | 73 | 1128819 | 55.51 | ug/L | 96 |
| 25) trans-1,2-dichloroethene | 7.681 | 96 | 370039 | 57.25 | ug/L | 98 |
| 26) hexane | 8.037 | 57 | 671261 | 58.44 | ug/L | 97 |
| 27) di-isopropyl ether | 8.247 | 45 | 1620621 | 57.57 | ug/L | 97 |
| 28) ethyl tert-butyl ether | 8.703 | 59 | 1460333 | 59.60 | ug/L | 99 |
| 29) 2-butanone | 8.902 | 72 | 174206 | 219.03 | ug/L # | 83 |
| 30) 1,1-dichloroethane | 8.252 | 63 | 724103 | 57.30 | ug/L | 98 |
| 31) chloroprene | 8.352 | 53 | 673029 | 56.08 | ug/L | 95 |
| 32) acrylonitrile | 7.586 | 53 | 169463 | 51.98 | ug/L | 94 |
| 33) vinyl acetate | 8.195 | 86 | 77916 | 65.37 | ug/L # | 66 |
| 34) ethyl acetate | 8.918 | 45 | 75980 | 51.46 | ug/L | 80 |
| 35) 2,2-dichloropropane | 8.997 | 77 | 599900 | 59.40 | ug/L | 97 |
| 36) cis-1,2-dichloroethene | 8.965 | 96 | 2819315 | 396.63 | ug/L | 91 |
| 37) propionitrile | 8.976 | 54 | 634422 | 521.72 | ug/L | 91 |
| 38) bromochloromethane | 9.259 | 130 | 271067 | 57.36 | ug/L | 99 |
| 39) tetrahydrofuran | 9.275 | 42 | 145937 | 43.28 | ug/L | 97 |
| 40) chloroform | 9.348 | 83 | 719396 | 54.79 | ug/L | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220452.d
Acq On : 30 Sep 2022 4:03 pm
Operator : nicoleh
Sample : jd52514-12msd Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 03 11:09:44 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) tert-butyl formate | 9.385 | 59 | 353000 | 55.29 | ug/L | | 93 |
| 42) isobutyl alcohol | 9.741 | 43 | 246050 | 483.53 | ug/L | | 98 |
| 44) methacrylonitrile | 9.170 | 67 | 171403 | 56.75 | ug/L | | 84 |
| 45) 1,1,1-trichloroethane | 9.605 | 97 | 639996 | 56.13 | ug/L | | 99 |
| 46) cyclohexane | 9.715 | 84 | 551570 | 57.89 | ug/L | | 91 |
| 47) 1,1-dichloropropene | 9.773 | 75 | 534772 | 58.25 | ug/L | | 97 |
| 48) tert-amyl alcohol | 9.904 | 73 | 132403 | 260.25 | ug/L | # | 89 |
| 49) carbon tetrachloride | 9.799 | 117 | 562967 | 54.70 | ug/L | | 98 |
| 52) 2,2,4-trimethylpentane | 10.119 | 57 | 1719032 | 50.23 | ug/L | | 92 |
| 53) tert-amyl methyl ether | 10.103 | 73 | 1248118 | 49.76 | ug/L | | 98 |
| 54) n-butyl alcohol | 10.491 | 56 | 740883 | 2341.91 | ug/L | | 91 |
| 55) benzene | 10.019 | 78 | 1526596 | 52.84 | ug/L | | 97 |
| 56) heptane | 10.276 | 57 | 328253 | 47.01 | ug/L | | 95 |
| 57) isopropyl acetate | 9.935 | 87 | 92060 | 50.76 | ug/L | # | 86 |
| 58) 1,2-dichloroethane | 10.040 | 62 | 604980 | 44.56 | ug/L | | 100 |
| 59) trichloroethene | 10.743 | 95 | 505599 | 61.21 | ug/L | | 96 |
| 60) ethyl acrylate | 10.732 | 55 | 644591 | 49.14 | ug/L | | 99 |
| 61) 2-nitropropane | 11.498 | 41 | 126481 | 36.68 | ug/L | | 91 |
| 62) 2-chloroethyl vinyl ether | 11.534 | 63 | 97626 | 30.45 | ug/L | | 98 |
| 63) methyl methacrylate | 11.000 | 100 | 110490 | 53.35 | ug/L | # | 75 |
| 64) 1,2-dichloropropane | 11.031 | 63 | 441014 | 51.45 | ug/L | | 96 |
| 65) methylcyclohexane | 11.042 | 83 | 673011 | 49.79 | ug/L | | 97 |
| 66) dibromomethane | 11.136 | 93 | 262987 | 46.73 | ug/L | | 94 |
| 67) bromodichloromethane | 11.293 | 83 | 563254 | 48.35 | ug/L | | 99 |
| 68) epichlorohydrin | 11.618 | 57 | 219280 | 214.31 | ug/L | | 96 |
| 69) cis-1,3-dichloropropene | 11.749 | 75 | 677847 | 53.16 | ug/L | | 85 |
| 70) 4-methyl-2-pentanone | 11.860 | 58 | 767606 | 189.89 | ug/L | | 93 |
| 71) 3-methyl-1-butanol | 11.865 | 70 | 245588 | 985.02 | ug/L | # | 86 |
| 74) toluene | 12.132 | 92 | 938228 | 48.18 | ug/L | | 98 |
| 75) trans-1,3-dichloropropene | 12.321 | 75 | 601973 | 46.63 | ug/L | | 99 |
| 76) ethyl methacrylate | 12.316 | 69 | 550905 | 49.70 | ug/L | | 87 |
| 77) 1,1,2-trichloroethane | 12.536 | 83 | 303000 | 45.26 | ug/L | | 96 |
| 78) 2-hexanone | 12.704 | 58 | 723715 | 177.65 | ug/L | # | 88 |
| 79) tetrachloroethene | 12.683 | 166 | 460010 | 47.45 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 12.719 | 76 | 568274 | 44.24 | ug/L | | 99 |
| 81) butyl acetate | 12.788 | 56 | 331020 | 47.29 | ug/L | | 94 |
| 82) dibromochloromethane | 12.961 | 129 | 433561 | 44.37 | ug/L | | 100 |
| 83) 1,2-dibromoethane | 13.113 | 107 | 367993 | 44.38 | ug/L | | 94 |
| 84) n-butyl ether | 13.558 | 57 | 1727014 | 44.76 | ug/L | | 98 |
| 85) chlorobenzene | 13.595 | 112 | 1028563 | 48.43 | ug/L | | 97 |
| 86) 1,1,1,2-tetrachloroethane | 13.658 | 131 | 392006 | 45.89 | ug/L | | 99 |
| 87) ethylbenzene | 13.658 | 91 | 1684527 | 46.14 | ug/L | | 95 |
| 88) m,p-xylene | 13.778 | 106 | 1276636 | 89.95 | ug/L | | 93 |
| 89) o-xylene | 14.177 | 91 | 1347021 | 45.20 | ug/L | | 98 |
| 90) styrene | 14.187 | 104 | 1036422 | 44.88 | ug/L | | 98 |
| 91) n-amyl acetate | 14.224 | 70 | 290936 | 48.27 | ug/L | # | 85 |
| 92) bromoform | 14.408 | 173 | 310304 | 44.16 | ug/L | | 96 |
| 93) butyl acrylate | 14.014 | 55 | 994802 | 48.40 | ug/L | | 99 |
| 94) isopropylbenzene | 14.523 | 105 | 1582271 | 44.52 | ug/L | | 99 |
| 95) cis-1,4-dichloro-2-butene | 14.560 | 88 | 115209 | 30.11 | ug/L | | 94 |
| 98) bromobenzene | 14.900 | 156 | 454920 | 44.22 | ug/L | | 98 |
| 99) 1,1,2,2-tetrachloroethane | 14.801 | 83 | 452144 | 41.39 | ug/L | | 99 |
| 100) trans-1,4-dichloro-2-b... | 14.832 | 53 | 103475 | 28.45 | ug/L | | 92 |
| 101) 1,2,3-trichloropropane | 14.885 | 110 | 111220 | 39.56 | ug/L | | 92 |
| 102) n-propylbenzene | 14.937 | 91 | 1926885 | 46.70 | ug/L | | 98 |
| 103) 2-chlorotoluene | 15.068 | 126 | 409856 | 45.64 | ug/L | | 97 |
| 104) 4-chlorotoluene | 15.178 | 91 | 1202323 | 45.82 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220452.d
Acq On : 30 Sep 2022 4:03 pm
Operator : nicoleh
Sample : jd52514-12msd Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 03 11:09:44 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

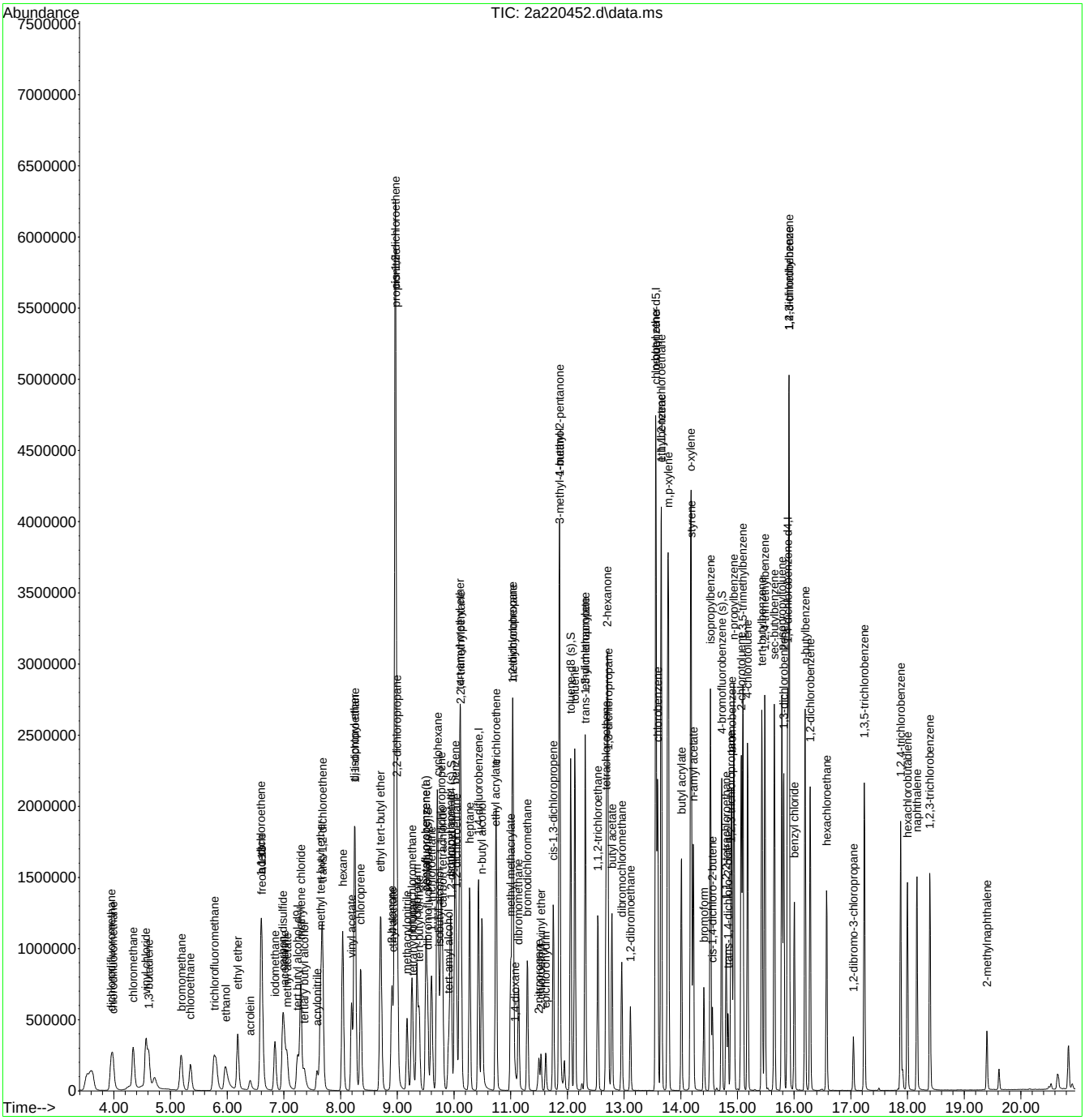
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 105) 1,3,5-trimethylbenzene | 15.094 | 105 | 1315852 | 45.92 | ug/L | 98 |
| 106) tert-butylbenzene | 15.430 | 119 | 1141903 | 45.99 | ug/L | 97 |
| 107) 1,2,4-trimethylbenzene | 15.482 | 105 | 1317137 | 45.12 | ug/L | 99 |
| 108) sec-butylbenzene | 15.650 | 105 | 1649093 | 44.55 | ug/L | 100 |
| 109) 1,3-dichlorobenzene | 15.818 | 146 | 804525 | 43.87 | ug/L | 99 |
| 110) p-isopropyltoluene | 15.781 | 119 | 1418510 | 44.94 | ug/L | 99 |
| 111) benzyl chloride | 16.002 | 91 | 826886 | 46.00 | ug/L | 97 |
| 112) 1,2,3-trimethylbenzene | 15.912 | 105 | 1317088 | 43.75 | ug/L | 98 |
| 113) 1,4-dichlorobenzene | 15.912 | 146 | 804581 | 42.19 | ug/L | 98 |
| 114) 1,2-dichlorobenzene | 16.285 | 146 | 778072 | 43.41 | ug/L | 99 |
| 115) n-butylbenzene | 16.195 | 92 | 741990 | 44.19 | ug/L | 98 |
| 116) 1,2-dibromo-3-chloropr... | 17.045 | 157 | 92625 | 39.06 | ug/L | 98 |
| 117) 1,3,5-trichlorobenzene | 17.239 | 180 | 644339 | 46.00 | ug/L | 99 |
| 118) 1,2,4-trichlorobenzene | 17.878 | 180 | 548055 | 45.49 | ug/L | 97 |
| 119) hexachlorobutadiene | 17.999 | 225 | 294386 | 47.48 | ug/L | 98 |
| 120) naphthalene | 18.167 | 128 | 1059896 | 36.92 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 18.392 | 180 | 467848 | 41.25 | ug/L | 98 |
| 122) hexachloroethane | 16.573 | 201 | 226858 | 43.90 | ug/L | 98 |
| 123) 2-methylnaphthalene | 19.404 | 142 | 204527 | 13.98 | ug/L | 96 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220452.d
Acq On : 30 Sep 2022 4:03 pm
Operator : nicoleh
Sample : jd52514-12msd Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 03 11:09:44 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347783.d
Acq On : 3 Oct 2022 5:42 pm
Operator : nicoleh
Sample : jd52644-1ms Inst : GCMSL
Misc : MS62577,VL10517,5,,,,5
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 04 01:09:51 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.085 | 65 | 148984 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.305 | 168 | 200215 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.876 | 114 | 311344 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.273 | 117 | 308453 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 118473 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.305 | 168 | 200094 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.468 | 152 | 118473 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.314 | 113 | 93208 | 51.54 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.08% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.571 | 65 | 104909 | 46.17 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 92.34% | | | | |
| 73) toluene-d8 (s) | 6.025 | 98 | 377199 | 44.43 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 88.86% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.351 | 95 | 147155 | 47.68 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.36% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.316 | 88 | 11810 | 304.01 | ug/L | | 90 |
| 3) ethanol | 2.508 | 45 | 70941 | 1907.44 | ug/L | | 95 |
| 4) tertiary butyl alcohol | 3.143 | 59 | 111281 | 243.71 | ug/L | | 96 |
| 6) chlorodifluoromethane | 1.677 | 51 | 76444 | 34.14 | ug/L | # | 93 |
| 7) dichlorodifluoromethane | 1.657 | 85 | 188311 | 57.61 | ug/L | | 98 |
| 8) chloromethane | 1.821 | 50 | 108196 | 49.52 | ug/L | | 97 |
| 9) vinyl chloride | 1.901 | 62 | 134482 | 49.90 | ug/L | | 96 |
| 10) 1,3-butadiene | 1.930 | 54 | 104748 | 39.54 | ug/L | | 96 |
| 11) bromomethane | 2.161 | 96 | 44364 | 39.54 | ug/L | | 99 |
| 12) chloroethane | 2.235 | 64 | 121789 | 77.28 | ug/L | | 99 |
| 13) trichlorofluoromethane | 2.421 | 101 | 205992 | 54.66 | ug/L | | 99 |
| 14) ethyl ether | 2.604 | 74 | 80855 | 61.41 | ug/L | | 89 |
| 15) acrolein | 2.707 | 56 | 33563 | 70.20 | ug/L | | 97 |
| 16) freon 113 | 2.781 | 151 | 88101 | 59.38 | ug/L | | 98 |
| 17) 1,1-dichloroethene | 2.787 | 96 | 109247 | 59.11 | ug/L | | 96 |
| 18) acetone | 2.797 | 58 | 120819 | 372.07 | ug/L | | 93 |
| 19) acetonitrile | 2.986 | 40 | 96309 | 457.76 | ug/L | | 96 |
| 20) iodomethane | 2.899 | 142 | 60919 | 36.44 | ug/L | | 100 |
| 21) iso-butyl alcohol | 4.452 | 43 | 69006 | 326.06 | ug/L | | 97 |
| 22) carbon disulfide | 2.960 | 76 | 253914 | 44.64 | ug/L | | 96 |
| 23) methylene chloride | 3.114 | 84 | 122755 | 57.05 | ug/L | | 95 |
| 24) methyl acetate | 3.005 | 74 | 37229 | 57.13 | ug/L | # | 83 |
| 25) methyl tert butyl ether | 3.281 | 73 | 386926 | 55.30 | ug/L | | 93 |
| 26) trans-1,2-dichloroethene | 3.297 | 96 | 114953 | 57.48 | ug/L | | 98 |
| 27) hexane | 3.480 | 57 | 165035 | 58.68 | ug/L | | 93 |
| 28) di-isopropyl ether | 3.586 | 45 | 336762 | 59.31 | ug/L | | 93 |
| 29) ethyl tert-butyl ether | 3.833 | 59 | 399061 | 59.97 | ug/L | | 96 |
| 30) 2-butanone | 3.955 | 72 | 123095 | 246.78 | ug/L | | 97 |
| 31) 1,1-dichloroethane | 3.596 | 63 | 877941 | 250.04 | ug/L | | 98 |
| 32) chloroprene | 3.650 | 53 | 164747 | 57.68 | ug/L | | 93 |
| 33) acrylonitrile | 3.265 | 53 | 66808 | 57.85 | ug/L | | 96 |
| 34) vinyl acetate | 3.570 | 86 | 37024 | 61.12 | ug/L | # | 66 |
| 35) ethyl acetate | 3.961 | 45 | 27385 | 54.07 | ug/L | | 95 |
| 36) 2,2-dichloropropane | 3.997 | 77 | 175822 | 51.47 | ug/L | | 99 |
| 37) cis-1,2-dichloroethene | 3.984 | 96 | 131682 | 58.21 | ug/L | | 93 |
| 38) propionitrile | 4.003 | 54 | 242368 | 508.40 | ug/L | | 89 |
| 39) methyl acrylate | 4.010 | 85 | 28070 | 47.76 | ug/L | # | 76 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347783.d
Acq On : 3 Oct 2022 5:42 pm
Operator : nicoleh
Sample : jd52644-1ms Inst : GCMSL
Misc : MS62577,VL10517,5,,,,5
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 04 01:09:51 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 40) bromochloromethane | 4.151 | 128 | 59687 | 60.56 | ug/L | | 95 |
| 41) tetrahydrofuran | 4.164 | 72 | 30974 | 55.57 | ug/L | | 94 |
| 42) chloroform | 4.205 | 83 | 217422 | 54.06 | ug/L | | 94 |
| 44) methacrylonitrile | 4.112 | 67 | 77960 | 55.75 | ug/L | | 95 |
| 45) 1,1,1-trichloroethane | 4.346 | 97 | 301493 | 87.47 | ug/L | | 98 |
| 46) cyclohexane | 4.407 | 84 | 156134 | 49.22 | ug/L | | 97 |
| 47) 1,1-dichloropropene | 4.452 | 75 | 152530 | 55.39 | ug/L | | 97 |
| 48) carbon tetrachloride | 4.459 | 117 | 149432 | 52.31 | ug/L | | 98 |
| 49) isopropyl acetate | 4.574 | 87 | 38670 | 54.10 | ug/L | | 98 |
| 50) tert amyl alcohol | 4.545 | 55 | 45396 | 200.45 | ug/L | # | 81 |
| 53) tert-amyl methyl ether | 4.661 | 73 | 356917 | 51.48 | ug/L | | 93 |
| 54) 2,2,4-trimethylpentane | 4.664 | 57 | 308571 | 56.00 | ug/L | | 96 |
| 55) n-butyl alcohol | 4.934 | 56 | 192726 | 1248.58 | ug/L | | 96 |
| 56) benzene | 4.603 | 78 | 442100 | 54.54 | ug/L | | 97 |
| 57) heptane | 4.773 | 57 | 67422 | 53.05 | ug/L | | 92 |
| 58) 1,2-dichloroethane | 4.626 | 62 | 156050 | 51.01 | ug/L | | 99 |
| 59) trichloroethene | 5.068 | 95 | 131487 | 57.36 | ug/L | | 96 |
| 60) ethyl acrylate | 5.088 | 55 | 227815 | 59.96 | ug/L | | 98 |
| 61) 2-nitropropane | 5.624 | 41 | 59024 | 53.09 | ug/L | | 92 |
| 62) 2-chloroethyl vinyl ether | 5.652 | 63 | 426781 | 321.59 | ug/L | | 97 |
| 63) methyl methacrylate | 5.264 | 100 | 48112 | 54.36 | ug/L | | 97 |
| 64) 1,2-dichloropropane | 5.271 | 63 | 118128 | 59.07 | ug/L | | 91 |
| 65) methylcyclohexane | 5.258 | 83 | 195228 | 54.08 | ug/L | | 93 |
| 66) dibromomethane | 5.341 | 93 | 82178 | 55.75 | ug/L | | 91 |
| 67) bromodichloromethane | 5.460 | 83 | 175045 | 52.11 | ug/L | | 92 |
| 68) cis-1,3-dichloropropene | 5.797 | 75 | 198956 | 52.80 | ug/L | | 95 |
| 69) epichlorohydrin | 5.707 | 57 | 103753 | 238.91 | ug/L | | 99 |
| 70) 4-methyl-2-pentanone | 5.893 | 58 | 306453 | 220.39 | ug/L | | 97 |
| 71) 3-methyl-1-butanol | 5.912 | 70 | 94499 | 555.16 | ug/L | # | 75 |
| 74) toluene | 6.082 | 92 | 302640 | 52.25 | ug/L | | 100 |
| 75) trans-1,3-dichloropropene | 6.253 | 75 | 182421 | 45.49 | ug/L | | 93 |
| 76) ethyl methacrylate | 6.269 | 69 | 203250 | 50.35 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 6.423 | 83 | 106978 | 53.02 | ug/L | | 98 |
| 78) 2-hexanone | 6.586 | 58 | 341344 | 212.71 | ug/L | | 95 |
| 79) tetrachloroethene | 6.519 | 166 | 128377 | 55.33 | ug/L | | 95 |
| 80) 1,3-dichloropropane | 6.567 | 76 | 195754 | 49.91 | ug/L | | 95 |
| 81) butyl acetate | 6.666 | 56 | 115945 | 55.39 | ug/L | | 97 |
| 82) dibromochloromethane | 6.756 | 129 | 129103 | 47.87 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 6.875 | 107 | 134603 | 49.80 | ug/L | | 95 |
| 84) n-butyl ether | 7.340 | 57 | 487558 | 56.38 | ug/L | | 97 |
| 85) chlorobenzene | 7.302 | 112 | 316896 | 53.54 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 7.372 | 131 | 107356 | 50.09 | ug/L | | 96 |
| 87) ethylbenzene | 7.372 | 91 | 523945 | 51.52 | ug/L | | 96 |
| 88) m,p-xylene | 7.488 | 106 | 407253 | 99.91 | ug/L | | 99 |
| 89) o-xylene | 7.844 | 106 | 210558 | 51.65 | ug/L | | 97 |
| 90) butyl acrylate | 7.764 | 55 | 288789 | 55.33 | ug/L | | 97 |
| 91) styrene | 7.863 | 104 | 333639 | 50.46 | ug/L | | 98 |
| 92) bromoform | 8.043 | 173 | 88486 | 46.63 | ug/L | | 97 |
| 93) isopropylbenzene | 8.181 | 105 | 534226 | 52.20 | ug/L | | 95 |
| 94) cis-1,4-dichloro-2-butene | 8.229 | 88 | 27532 | 36.17 | ug/L | # | 83 |
| 97) bromobenzene | 8.499 | 156 | 126118 | 52.46 | ug/L | | 91 |
| 98) 1,1,2,2-tetrachloroethane | 8.467 | 83 | 193571 | 48.82 | ug/L | | 98 |
| 99) trans-1,4-dichloro-2-b... | 8.505 | 53 | 24755 | 43.92 | ug/L | | 87 |
| 100) 1,2,3-trichloropropane | 8.531 | 110 | 53928 | 47.22 | ug/L | | 95 |
| 101) n-propylbenzene | 8.576 | 91 | 583200 | 51.39 | ug/L | | 99 |
| 102) 2-chlorotoluene | 8.669 | 126 | 120533 | 53.97 | ug/L | | 86 |
| 103) 4-chlorotoluene | 8.788 | 126 | 114783 | 51.27 | ug/L | | 88 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347783.d
Acq On : 3 Oct 2022 5:42 pm
Operator : nicoleh
Sample : jd52644-1ms Inst : GCMSL
Misc : MS62577,VL10517,5,,,,5
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 04 01:09:51 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

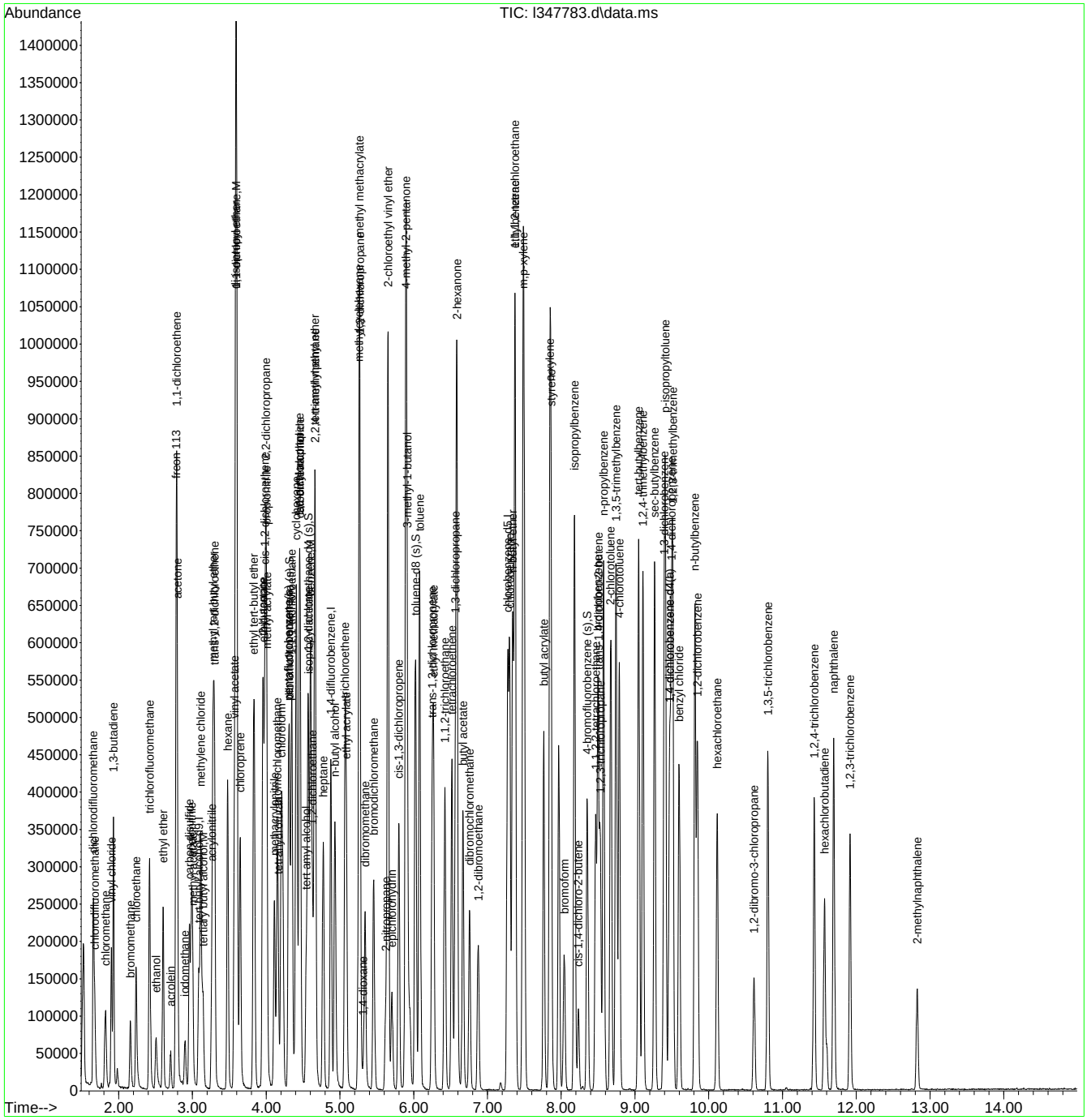
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) 1,3,5-trimethylbenzene | 8.746 | 105 | 416076 | 51.14 | ug/L | 99 |
| 105) tert-butylbenzene | 9.051 | 119 | 366661 | 53.77 | ug/L | 98 |
| 106) 1,2,4-trimethylbenzene | 9.108 | 105 | 413595 | 49.67 | ug/L | 99 |
| 107) sec-butylbenzene | 9.266 | 105 | 512902 | 52.62 | ug/L | 98 |
| 108) 1,3-dichlorobenzene | 9.394 | 146 | 223010 | 54.92 | ug/L | 97 |
| 109) p-isopropyltoluene | 9.410 | 119 | 406555 | 52.89 | ug/L | 97 |
| 110) 1,4-dichlorobenzene | 9.494 | 146 | 203855 | 51.20 | ug/L | 94 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 394352 | 49.90 | ug/L | 97 |
| 112) 1,2-dichlorobenzene | 9.847 | 146 | 203746 | 51.00 | ug/L | 97 |
| 113) n-butylbenzene | 9.811 | 92 | 217382 | 56.50 | ug/L | 97 |
| 114) 1,2-dibromo-3-chloropr... | 10.613 | 157 | 47139 | 50.32 | ug/L | 89 |
| 115) 1,3,5-trichlorobenzene | 10.803 | 180 | 150138 | 58.25 | ug/L | 95 |
| 116) 1,2,4-trichlorobenzene | 11.432 | 180 | 125906 | 60.33 | ug/L | 94 |
| 117) hexachlorobutadiene | 11.570 | 225 | 50900 | 60.90 | ug/L | 88 |
| 118) naphthalene | 11.695 | 128 | 386268 | 54.81 | ug/L | 99 |
| 119) 1,2,3-trichlorobenzene | 11.916 | 180 | 111517 | 59.01 | ug/L | 92 |
| 120) hexachloroethane | 10.116 | 119 | 81082 | 50.87 | ug/L | 91 |
| 121) benzyl chloride | 9.599 | 91 | 348452 | 50.64 | ug/L | 97 |
| 122) 2-methylnaphthalene | 12.828 | 142 | 72830 | 28.86 | ug/L | 96 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347783.d
Acq On : 3 Oct 2022 5:42 pm
Operator : nicoleh
Sample : jd52644-1ms Inst : GCMSL
Misc : MS62577,VL10517,5,,,,5
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 04 01:09:51 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347784.d
Acq On : 3 Oct 2022 6:05 pm
Operator : nicoleh
Sample : jd52644-1msd Inst : GCMSL
Misc : MS62577,VL10517,5,,,,5
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 04 01:10:05 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.088 | 65 | 162026 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.308 | 168 | 208539 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.876 | 114 | 318426 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 313413 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 121744 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.308 | 168 | 207943 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.468 | 152 | 121727 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.321 | 113 | 94609 | 50.23 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.46% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.568 | 65 | 105087 | 45.22 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 90.44% | | | | |
| 73) toluene-d8 (s) | 6.025 | 98 | 380347 | 44.09 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 88.18% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 150548 | 47.47 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.94% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.312 | 88 | 15559 | 368.28 | ug/L | | 95 |
| 3) ethanol | 2.504 | 45 | 90491 | 2237.25 | ug/L | | 100 |
| 4) tertiary butyl alcohol | 3.143 | 59 | 114895 | 231.37 | ug/L | | 95 |
| 6) chlorodifluoromethane | 1.673 | 51 | 73968 | 31.72 | ug/L | # | 95 |
| 7) dichlorodifluoromethane | 1.654 | 85 | 171887 | 50.49 | ug/L | | 97 |
| 8) chloromethane | 1.818 | 50 | 102321 | 44.96 | ug/L | | 98 |
| 9) vinyl chloride | 1.898 | 62 | 127790 | 45.53 | ug/L | | 98 |
| 10) 1,3-butadiene | 1.927 | 54 | 101656 | 36.84 | ug/L | | 97 |
| 11) bromomethane | 2.155 | 96 | 48284 | 41.31 | ug/L | | 99 |
| 12) chloroethane | 2.232 | 64 | 111797 | 68.11 | ug/L | | 99 |
| 13) trichlorofluoromethane | 2.418 | 101 | 196066 | 49.95 | ug/L | | 98 |
| 14) ethyl ether | 2.601 | 74 | 77076 | 56.20 | ug/L | | 79 |
| 15) acrolein | 2.703 | 56 | 31244 | 62.74 | ug/L | | 100 |
| 16) freon 113 | 2.777 | 151 | 85600 | 55.39 | ug/L | | 91 |
| 17) 1,1-dichloroethene | 2.784 | 96 | 105936 | 55.03 | ug/L | | 98 |
| 18) acetone | 2.793 | 58 | 119741 | 354.03 | ug/L | | 87 |
| 19) acetonitrile | 2.986 | 40 | 93523 | 426.77 | ug/L | | 93 |
| 20) iodomethane | 2.899 | 142 | 74482 | 42.50 | ug/L | | 92 |
| 21) iso-butyl alcohol | 4.459 | 43 | 72944 | 330.91 | ug/L | | 97 |
| 22) carbon disulfide | 2.960 | 76 | 248326 | 41.92 | ug/L | | 97 |
| 23) methylene chloride | 3.114 | 84 | 118489 | 52.87 | ug/L | | 98 |
| 24) methyl acetate | 3.002 | 74 | 33573 | 49.46 | ug/L | # | 71 |
| 25) methyl tert butyl ether | 3.281 | 73 | 376350 | 51.64 | ug/L | | 94 |
| 26) trans-1,2-dichloroethene | 3.300 | 96 | 113222 | 54.36 | ug/L | | 97 |
| 27) hexane | 3.477 | 57 | 163091 | 55.68 | ug/L | | 96 |
| 28) di-isopropyl ether | 3.589 | 45 | 327549 | 55.38 | ug/L | | 87 |
| 29) ethyl tert-butyl ether | 3.833 | 59 | 387763 | 55.95 | ug/L | | 95 |
| 30) 2-butanone | 3.952 | 72 | 125685 | 241.91 | ug/L | # | 83 |
| 31) 1,1-dichloroethane | 3.595 | 63 | 879472 | 240.48 | ug/L | | 99 |
| 32) chloroprene | 3.650 | 53 | 157859 | 53.07 | ug/L | | 94 |
| 33) acrylonitrile | 3.262 | 53 | 64167 | 53.34 | ug/L | | 93 |
| 34) vinyl acetate | 3.570 | 86 | 36490 | 57.83 | ug/L | # | 86 |
| 35) ethyl acetate | 3.964 | 45 | 29792 | 56.47 | ug/L | # | 76 |
| 36) 2,2-dichloropropane | 3.993 | 77 | 168145 | 47.26 | ug/L | | 97 |
| 37) cis-1,2-dichloroethene | 3.987 | 96 | 126437 | 53.66 | ug/L | | 97 |
| 38) propionitrile | 4.000 | 54 | 236467 | 476.23 | ug/L | | 93 |
| 39) methyl acrylate | 4.009 | 85 | 29095 | 47.53 | ug/L | # | 88 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347784.d
Acq On : 3 Oct 2022 6:05 pm
Operator : nicoleh
Sample : jd52644-1msd Inst : GCMSL
Misc : MS62577,VL10517,5,,,,5
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 04 01:10:05 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 40) bromochloromethane | 4.151 | 128 | 57506 | 56.02 | ug/L | | 95 |
| 41) tetrahydrofuran | 4.163 | 72 | 29674 | 51.11 | ug/L | | 97 |
| 42) chloroform | 4.205 | 83 | 209561 | 50.03 | ug/L | | 95 |
| 44) methacrylonitrile | 4.112 | 67 | 77411 | 53.14 | ug/L | | 96 |
| 45) 1,1,1-trichloroethane | 4.346 | 97 | 301926 | 84.10 | ug/L | | 96 |
| 46) cyclohexane | 4.407 | 84 | 142812 | 43.22 | ug/L | | 93 |
| 47) 1,1-dichloropropene | 4.455 | 75 | 148084 | 51.63 | ug/L | | 97 |
| 48) carbon tetrachloride | 4.462 | 117 | 149387 | 50.20 | ug/L | | 94 |
| 49) isopropyl acetate | 4.571 | 87 | 38397 | 51.57 | ug/L | | 96 |
| 50) tert amyl alcohol | 4.548 | 55 | 45380 | 192.38 | ug/L | # | 90 |
| 53) tert-amyl methyl ether | 4.661 | 73 | 347415 | 49.00 | ug/L | | 95 |
| 54) 2,2,4-trimethylpentane | 4.661 | 57 | 308959 | 54.83 | ug/L | | 97 |
| 55) n-butyl alcohol | 4.934 | 56 | 207381 | 1313.64 | ug/L | | 94 |
| 56) benzene | 4.600 | 78 | 431116 | 52.00 | ug/L | | 97 |
| 57) heptane | 4.776 | 57 | 68476 | 52.68 | ug/L | | 86 |
| 58) 1,2-dichloroethane | 4.625 | 62 | 153028 | 48.91 | ug/L | | 98 |
| 59) trichloroethene | 5.072 | 95 | 127274 | 54.29 | ug/L | | 92 |
| 60) ethyl acrylate | 5.088 | 55 | 223804 | 57.60 | ug/L | | 97 |
| 61) 2-nitropropane | 5.617 | 41 | 55948 | 49.21 | ug/L | | 93 |
| 62) 2-chloroethyl vinyl ether | 5.652 | 63 | 417997 | 307.97 | ug/L | | 98 |
| 63) methyl methacrylate | 5.264 | 100 | 48138 | 53.18 | ug/L | | 96 |
| 64) 1,2-dichloropropane | 5.267 | 63 | 117837 | 57.62 | ug/L | | 85 |
| 65) methylcyclohexane | 5.258 | 83 | 195141 | 52.85 | ug/L | | 95 |
| 66) dibromomethane | 5.341 | 93 | 80305 | 53.27 | ug/L | | 93 |
| 67) bromodichloromethane | 5.457 | 83 | 165239 | 48.10 | ug/L | | 99 |
| 68) cis-1,3-dichloropropene | 5.797 | 75 | 196787 | 51.06 | ug/L | | 99 |
| 69) epichlorohydrin | 5.704 | 57 | 96021 | 216.18 | ug/L | | 97 |
| 70) 4-methyl-2-pentanone | 5.893 | 58 | 302805 | 212.92 | ug/L | | 91 |
| 71) 3-methyl-1-butanol | 5.912 | 70 | 98400 | 565.22 | ug/L | | 83 |
| 74) toluene | 6.082 | 92 | 297802 | 50.60 | ug/L | | 99 |
| 75) trans-1,3-dichloropropene | 6.249 | 75 | 178713 | 43.86 | ug/L | | 92 |
| 76) ethyl methacrylate | 6.272 | 69 | 196008 | 47.79 | ug/L | | 97 |
| 77) 1,1,2-trichloroethane | 6.422 | 83 | 102700 | 50.09 | ug/L | | 98 |
| 78) 2-hexanone | 6.586 | 58 | 330524 | 202.71 | ug/L | | 90 |
| 79) tetrachloroethene | 6.516 | 166 | 122799 | 52.08 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 6.567 | 76 | 191199 | 47.98 | ug/L | | 98 |
| 81) butyl acetate | 6.666 | 56 | 113001 | 53.13 | ug/L | | 95 |
| 82) dibromochloromethane | 6.756 | 129 | 126565 | 46.18 | ug/L | | 95 |
| 83) 1,2-dibromoethane | 6.878 | 107 | 131153 | 47.76 | ug/L | | 99 |
| 84) n-butyl ether | 7.340 | 57 | 474734 | 54.03 | ug/L | | 94 |
| 85) chlorobenzene | 7.302 | 112 | 312655 | 51.98 | ug/L | | 95 |
| 86) 1,1,1,2-tetrachloroethane | 7.369 | 131 | 105518 | 48.45 | ug/L | | 98 |
| 87) ethylbenzene | 7.375 | 91 | 509631 | 49.32 | ug/L | | 99 |
| 88) m,p-xylene | 7.488 | 106 | 393156 | 94.92 | ug/L | | 93 |
| 89) o-xylene | 7.847 | 106 | 207449 | 50.08 | ug/L | | 100 |
| 90) butyl acrylate | 7.764 | 55 | 291368 | 54.94 | ug/L | | 98 |
| 91) styrene | 7.863 | 104 | 325187 | 48.40 | ug/L | | 98 |
| 92) bromoform | 8.043 | 173 | 87982 | 45.63 | ug/L | | 91 |
| 93) isopropylbenzene | 8.181 | 105 | 522722 | 50.26 | ug/L | | 96 |
| 94) cis-1,4-dichloro-2-butene | 8.235 | 88 | 28278 | 36.57 | ug/L | | 90 |
| 97) bromobenzene | 8.499 | 156 | 128885 | 52.17 | ug/L | | 93 |
| 98) 1,1,2,2-tetrachloroethane | 8.467 | 83 | 188077 | 46.16 | ug/L | | 97 |
| 99) trans-1,4-dichloro-2-b... | 8.502 | 53 | 24604 | 42.48 | ug/L | # | 76 |
| 100) 1,2,3-trichloropropane | 8.524 | 110 | 50359 | 42.91 | ug/L | | 93 |
| 101) n-propylbenzene | 8.576 | 91 | 581851 | 49.89 | ug/L | | 99 |
| 102) 2-chlorotoluene | 8.669 | 126 | 119835 | 52.22 | ug/L | | 86 |
| 103) 4-chlorotoluene | 8.787 | 126 | 113507 | 49.34 | ug/L | | 88 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347784.d
Acq On : 3 Oct 2022 6:05 pm
Operator : nicoleh
Sample : jd52644-1msd Inst : GCMSL
Misc : MS62577,VL10517,5,,,,5
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 04 01:10:05 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

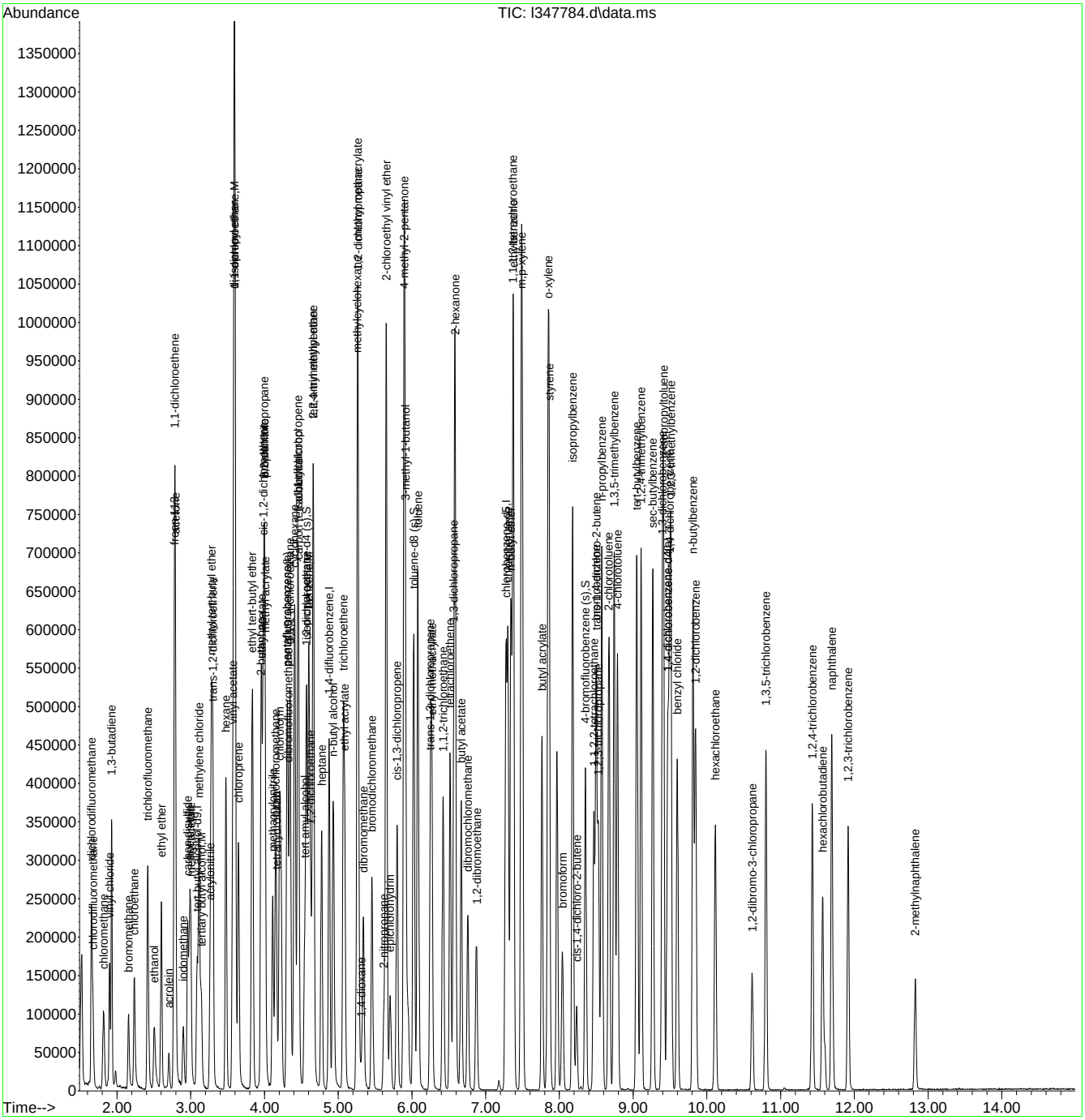
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) 1,3,5-trimethylbenzene | 8.746 | 105 | 407584 | 48.75 | ug/L | 96 |
| 105) tert-butylbenzene | 9.051 | 119 | 362736 | 51.76 | ug/L | 99 |
| 106) 1,2,4-trimethylbenzene | 9.108 | 105 | 406947 | 47.56 | ug/L | 99 |
| 107) sec-butylbenzene | 9.266 | 105 | 501646 | 50.08 | ug/L | 98 |
| 108) 1,3-dichlorobenzene | 9.394 | 146 | 216468 | 51.88 | ug/L | 96 |
| 109) p-isopropyltoluene | 9.413 | 119 | 396692 | 50.22 | ug/L | 99 |
| 110) 1,4-dichlorobenzene | 9.493 | 146 | 202897 | 49.59 | ug/L | 98 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 383724 | 47.25 | ug/L | 98 |
| 112) 1,2-dichlorobenzene | 9.846 | 146 | 202169 | 49.25 | ug/L | 96 |
| 113) n-butylbenzene | 9.811 | 92 | 212361 | 53.72 | ug/L | 95 |
| 114) 1,2-dibromo-3-chloropr... | 10.617 | 157 | 47953 | 49.81 | ug/L | 86 |
| 115) 1,3,5-trichlorobenzene | 10.799 | 180 | 147997 | 55.88 | ug/L | 95 |
| 116) 1,2,4-trichlorobenzene | 11.428 | 180 | 123645 | 57.65 | ug/L | 98 |
| 117) hexachlorobutadiene | 11.570 | 225 | 49600 | 57.75 | ug/L | 89 |
| 118) naphthalene | 11.695 | 128 | 393855 | 54.38 | ug/L | 99 |
| 119) 1,2,3-trichlorobenzene | 11.916 | 180 | 110765 | 57.04 | ug/L | 87 |
| 120) hexachloroethane | 10.116 | 119 | 78036 | 47.64 | ug/L | 90 |
| 121) benzyl chloride | 9.599 | 91 | 334562 | 47.32 | ug/L | 98 |
| 122) 2-methylnaphthalene | 12.824 | 142 | 77640 | 29.94 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347784.d
Acq On : 3 Oct 2022 6:05 pm
Operator : nicoleh
Sample : jd52644-1msd Inst : GCMSL
Misc : MS62577,VL10517,5,,,,5
ALS Vial : 19 Sample Multiplier: 1

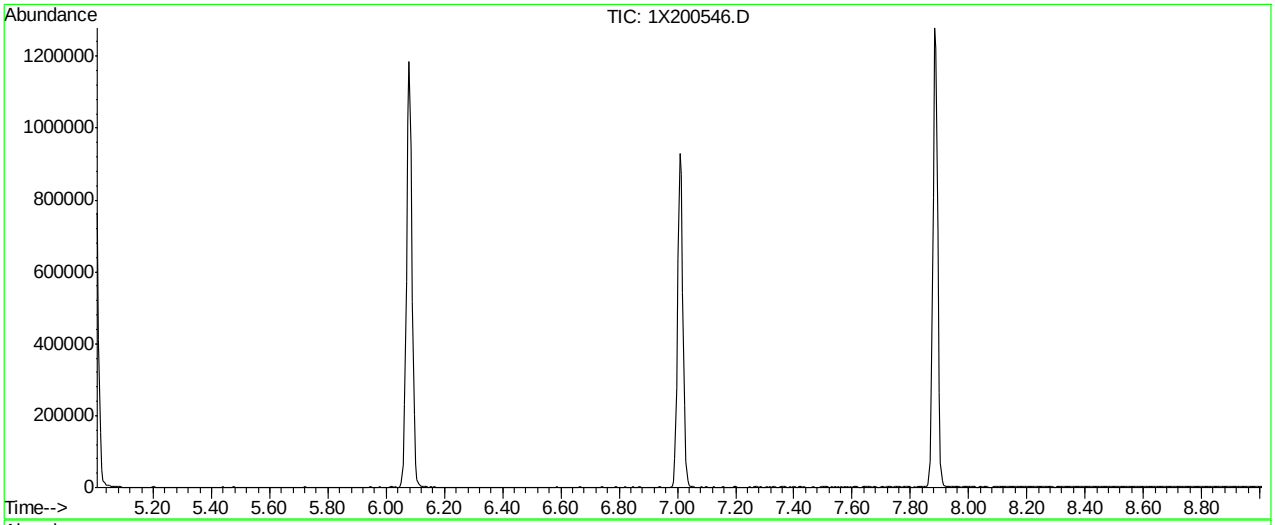
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 04 01:10:05 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration



BFB

Data File : C:\msdchem\1\data\VX8636\1X200546.D  Vial: 1
Acq On : 28 Sep 2022 8:11 pm  Operator: PrashanS
Sample : BFB  Inst : ACC-VOA-M
Misc : MS62283,V1X8636,5,,,,1  Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M1X8636.M (RTE Integrator)
Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)




AutoFind: Scans 1166, 1167, 1168; Background Corrected with Scan 1159

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 21.5 | 34122 | PASS |
| 75 | 95 | 30 | 60 | 47.9 | 76093 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 158920 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 10654 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 90.4 | 143600 | PASS |
| 175 | 174 | 5 | 9 | 7.6 | 10847 | PASS |
| 176 | 174 | 95 | 101 | 96.5 | 138637 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 9314 | PASS |

1X200546.D M1X8636.M Thu Sep 29 13:49:03 2022 GCMSX

Average of 7.002 to 7.013 min.: 1X200546.D
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.10 | 1664 | 49.10 | 7258 | 63.10 | 5966 | 77.05 | 830 |
| 37.10 | 9278 | 50.10 | 34122 | 64.05 | 555 | 78.00 | 574 |
| 38.10 | 8338 | 51.10 | 10270 | 67.05 | 484 | 78.95 | 5442 |
| 39.10 | 3064 | 52.05 | 480 | 68.05 | 16053 | 80.00 | 1635 |
| 40.00 | 181 | 55.10 | 459 | 69.05 | 16223 | 80.95 | 5607 |
| 43.00 | 144 | 56.05 | 2721 | 70.05 | 1182 | 81.95 | 1180 |
| 43.20 | 75 | 57.05 | 4771 | 72.05 | 766 | 83.10 | 138 |
| 44.05 | 1218 | 58.05 | 216 | 73.00 | 6760 | 85.80 | 56 |
| 45.05 | 1677 | 60.00 | 1359 | 74.05 | 26477 | 87.00 | 7228 |
| 47.05 | 2025 | 61.00 | 7745 | 75.10 | 76093 | 88.00 | 6740 |
| 48.05 | 1021 | 62.10 | 7973 | 76.10 | 6423 | 90.95 | 703 |

Average of 7.002 to 7.013 min.: 1X200546.D
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 92.00 | 4446 | 110.95 | 178 | 130.95 | 212 | 149.80 | 132 |
| 93.00 | 6875 | 112.90 | 136 | 134.95 | 309 | 152.95 | 113 |
| 94.10 | 19039 | 114.95 | 180 | 136.90 | 386 | 154.95 | 405 |
| 95.05 | 158920 | 115.95 | 657 | 139.90 | 171 | 156.90 | 368 |
| 96.05 | 10654 | 117.00 | 1065 | 140.95 | 1596 | 158.85 | 215 |
| 97.05 | 353 | 117.90 | 634 | 142.05 | 244 | 160.90 | 217 |
| 103.95 | 820 | 118.95 | 938 | 142.90 | 1763 | 171.60 | 51 |
| 104.95 | 231 | 123.90 | 54 | 145.00 | 69 | 172.10 | 107 |
| 105.95 | 850 | 127.90 | 620 | 145.90 | 164 | 174.00 | 143600 |
| 107.00 | 133 | 128.95 | 318 | 147.95 | 428 | 175.00 | 10847 |
| 109.90 | 64 | 129.90 | 627 | 148.90 | 54 | 176.00 | 138637 |

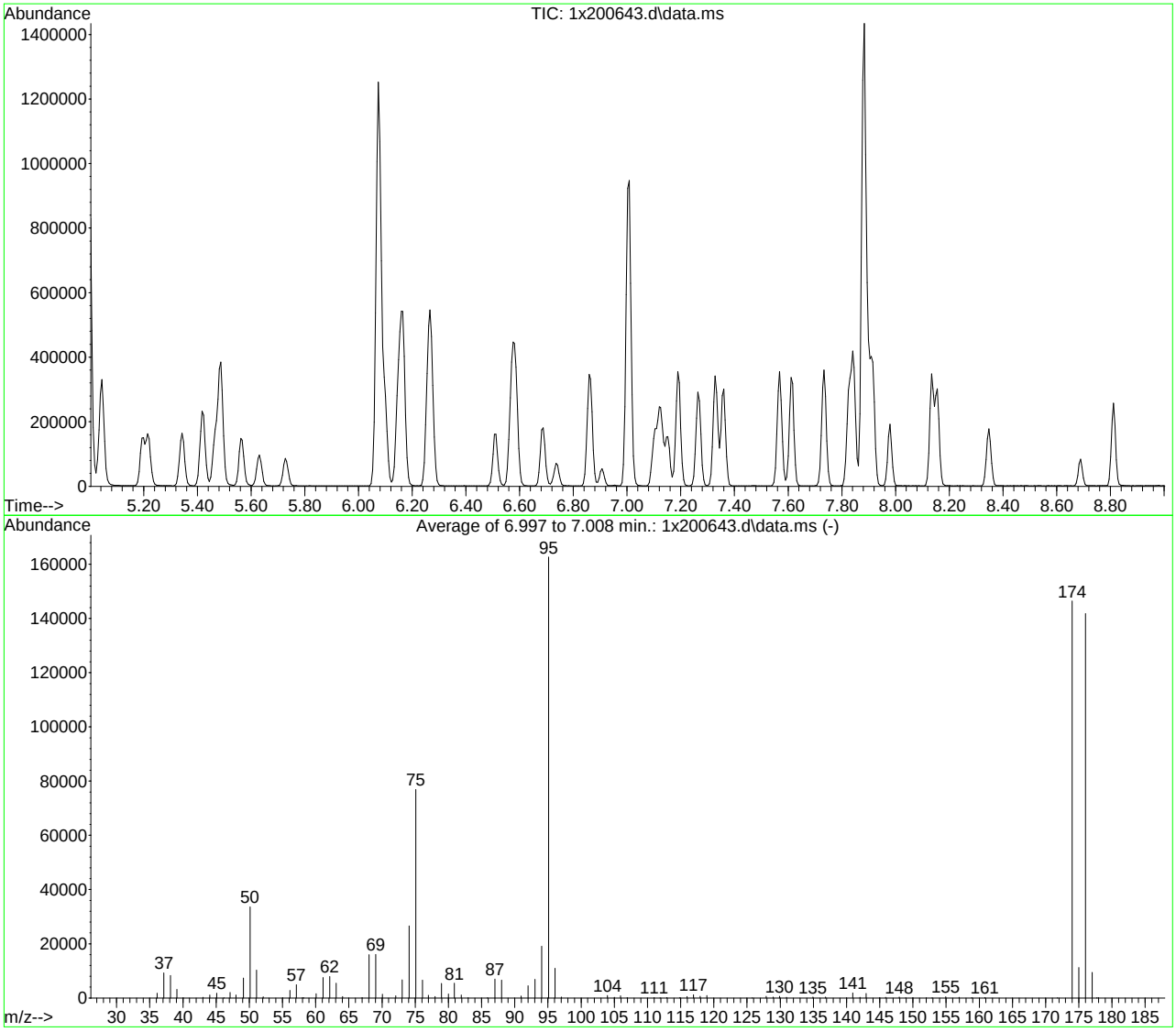
Average of 7.002 to 7.013 min.: 1X200546.D
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 176.95 | 9314 | | | | | | |
| 178.05 | 264 | | | | | | |

BFB

Data File : C:\msdchem\1\data\lo...-3\v1x8639\1x200643.d Vial: 6
Acq On : 30 Sep 2022 9:46 am Operator: taylors
Sample : bfb Inst : ACC-VOA-MSX
Misc : MS62564,V1X8639,5,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M1X8636.M (RTE Integrator)
Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)




AutoFind: Scans 1165, 1166, 1167; Background Corrected with Scan 1158

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 20.7 | 33645 | PASS |
| 75 | 95 | 30 | 60 | 47.3 | 76947 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 162661 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 10912 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 90.1 | 146533 | PASS |
| 175 | 174 | 5 | 9 | 7.6 | 11197 | PASS |
| 176 | 174 | 95 | 101 | 96.8 | 141869 | PASS |
| 177 | 176 | 5 | 9 | 6.6 | 9410 | PASS |

1x200643.d M1X8636.M Mon Oct 03 06:23:18 2022

Average of 6.997 to 7.008 min.: 1x200643.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.10 | 1748 | 49.10 | 7334 | 62.10 | 7911 | 76.10 | 6639 |
| 37.10 | 9246 | 50.10 | 33645 | 63.10 | 5451 | 77.00 | 962 |
| 38.10 | 8285 | 51.10 | 10244 | 64.05 | 520 | 78.00 | 541 |
| 39.10 | 3168 | 52.10 | 474 | 67.00 | 170 | 78.95 | 5322 |
| 40.05 | 83 | 55.05 | 95 | 68.05 | 15928 | 80.00 | 1519 |
| 43.05 | 255 | 56.10 | 2777 | 69.05 | 16034 | 80.90 | 5484 |
| 44.05 | 1126 | 57.10 | 4891 | 70.05 | 1372 | 81.95 | 1089 |
| 45.10 | 1729 | 58.00 | 108 | 72.05 | 839 | 83.00 | 66 |
| 46.20 | 70 | 58.20 | 55 | 73.05 | 6675 | 85.90 | 64 |
| 47.10 | 2070 | 60.05 | 1563 | 74.10 | 26589 | 87.00 | 6975 |
| 48.00 | 1052 | 61.10 | 7527 | 75.10 | 76947 | 88.00 | 6574 |

Average of 6.997 to 7.008 min.: 1x200643.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 90.95 | 715 | 111.00 | 143 | 129.90 | 634 | 148.90 | 52 |
| 92.00 | 4551 | 111.90 | 58 | 130.95 | 281 | 150.00 | 116 |
| 93.05 | 6868 | 112.90 | 125 | 134.95 | 294 | 152.00 | 54 |
| 94.05 | 19057 | 114.90 | 149 | 136.85 | 341 | 152.90 | 52 |
| 95.10 | 162661 | 115.95 | 561 | 140.00 | 70 | 154.95 | 474 |
| 96.05 | 10912 | 116.95 | 1166 | 140.95 | 1812 | 156.95 | 275 |
| 97.05 | 324 | 117.95 | 638 | 142.00 | 240 | 158.85 | 159 |
| 103.95 | 868 | 118.95 | 926 | 142.95 | 1710 | 160.85 | 131 |
| 105.00 | 276 | 125.80 | 53 | 145.00 | 146 | 171.80 | 63 |
| 105.95 | 784 | 127.90 | 582 | 145.90 | 205 | 174.00 | 146533 |
| 106.95 | 130 | 128.95 | 316 | 147.95 | 378 | 175.00 | 11197 |

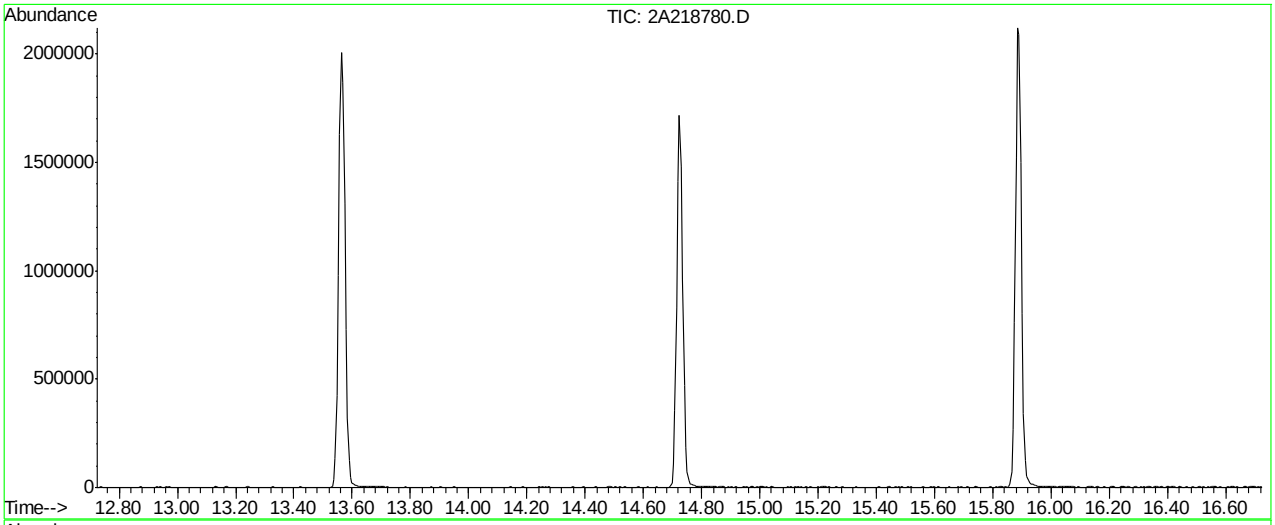
Average of 6.997 to 7.008 min.: 1x200643.d\data.ms
bfb
Modified:subtracted

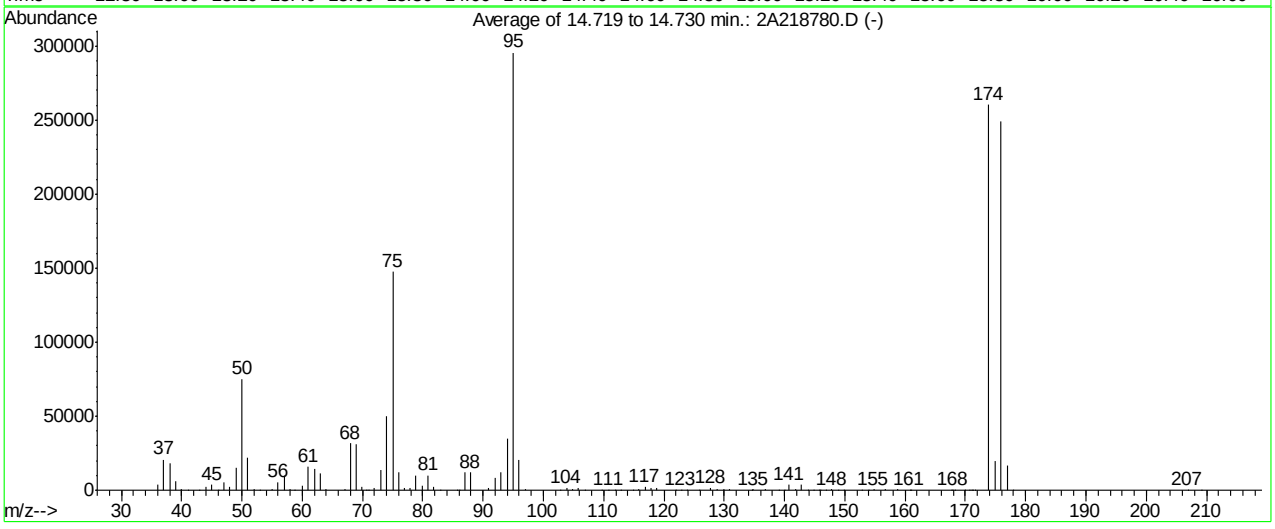
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 176.00 | 141869 | | | | | | |
| 177.00 | 9410 | | | | | | |
| 177.70 | 67 | | | | | | |
| 177.95 | 198 | | | | | | |

SW-846 Method 8260

Data File : C:\MSDChem\1\DATA\V2A9511\2A218780.D  Vial: 1
Acq On : 31 Jul 2022 4:50 pm  Operator: PrashanS
Sample : BFB  Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon May 16 17:44:57 2022




AutoFind: Scans 2168, 2169, 2170; Background Corrected with Scan 2160

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 25.4 | 75120 | PASS |
| 75 | 95 | 30 | 60 | 49.8 | 147328 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 295616 | PASS |
| 96 | 95 | 5 | 9 | 7.0 | 20757 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 88.0 | 260096 | PASS |
| 175 | 174 | 5 | 9 | 7.7 | 19904 | PASS |
| 176 | 174 | 95 | 101 | 95.6 | 248768 | PASS |
| 177 | 176 | 5 | 9 | 6.6 | 16468 | PASS |

2A218780.D M2A9511.M Mon Aug 01 14:24:31 2022 MS2A

Average of 14.719 to 14.730 min.: 2A218780.D
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.00 | 3875 | 48.00 | 2112 | 60.00 | 3001 | 71.95 | 1372 |
| 37.00 | 20709 | 49.00 | 15497 | 61.00 | 15875 | 73.00 | 14021 |
| 38.00 | 17835 | 50.00 | 75120 | 62.00 | 14595 | 73.95 | 50264 |
| 39.00 | 6234 | 51.00 | 21885 | 63.00 | 11254 | 75.00 | 147328 |
| 40.00 | 428 | 52.00 | 994 | 63.95 | 1038 | 76.00 | 12494 |
| 41.00 | 82 | 52.95 | 153 | 67.00 | 565 | 76.90 | 1733 |
| 43.00 | 100 | 54.95 | 831 | 68.00 | 31712 | 77.95 | 1194 |
| 43.95 | 2315 | 56.00 | 5567 | 69.00 | 30944 | 78.85 | 9664 |
| 45.00 | 3496 | 57.00 | 9970 | 69.95 | 2382 | 79.85 | 2795 |
| 46.00 | 393 | 57.95 | 549 | 70.60 | 67 | 80.90 | 9974 |
| 47.00 | 5306 | 58.70 | 69 | 70.95 | 199 | 81.85 | 2369 |

Average of 14.719 to 14.730 min.: 2A218780.D
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 82.95 | 205 | 96.95 | 537 | 115.80 | 1097 | 130.85 | 487 |
| 85.75 | 244 | 102.70 | 89 | 116.90 | 2216 | 134.50 | 145 |
| 86.00 | 142 | 103.85 | 1497 | 117.85 | 1469 | 134.85 | 599 |
| 86.90 | 12047 | 104.90 | 524 | 118.85 | 1740 | 136.85 | 784 |
| 87.90 | 12078 | 105.85 | 1405 | 121.90 | 72 | 139.00 | 80 |
| 90.90 | 1397 | 106.85 | 308 | 122.80 | 83 | 140.00 | 71 |
| 91.95 | 8505 | 109.75 | 174 | 123.85 | 229 | 140.80 | 3663 |
| 92.95 | 12474 | 110.85 | 382 | 125.85 | 187 | 141.90 | 459 |
| 94.00 | 34496 | 111.90 | 107 | 127.75 | 1210 | 142.85 | 3647 |
| 95.00 | 295616 | 112.85 | 288 | 128.80 | 624 | 143.90 | 172 |
| 96.00 | 20757 | 114.85 | 319 | 129.85 | 1094 | 144.80 | 135 |

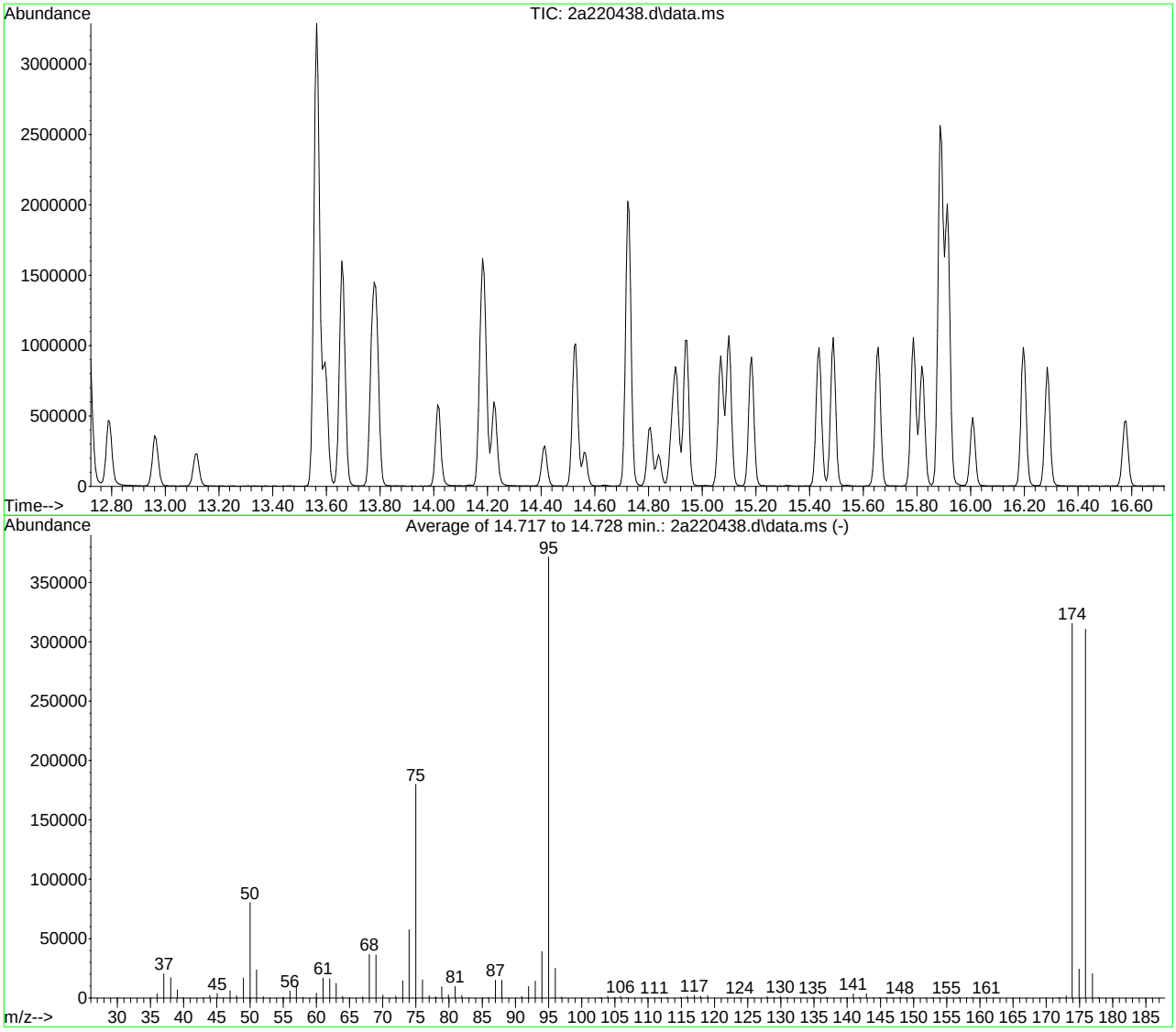
Average of 14.719 to 14.730 min.: 2A218780.D
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 145.80 | 305 | 160.80 | 175 | 174.90 | 19904 | | |
| 146.00 | 165 | 161.00 | 129 | 175.90 | 248768 | | |
| 146.80 | 243 | 167.70 | 83 | 176.90 | 16468 | | |
| 147.80 | 726 | 167.90 | 88 | 177.85 | 254 | | |
| 148.90 | 183 | 168.20 | 72 | 206.90 | 336 | | |
| 149.80 | 317 | 169.95 | 250 | 209.20 | 70 | | |
| 152.85 | 209 | 170.65 | 216 | | | | |
| 153.85 | 254 | 171.00 | 148 | | | | |
| 154.85 | 727 | 171.30 | 96 | | | | |
| 156.80 | 635 | 171.50 | 216 | | | | |
| 158.85 | 490 | 173.90 | 260096 | | | | |

SW-846 Method 8260

Data File : C:\msdchem\1\data\lo...-5\v2a9583\2a220438.d Vial: 2
Acq On : 30 Sep 2022 9:16 am Operator: nicoleh
Sample : bfb Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022




AutoFind: Scans 2161, 2162, 2163; Background Corrected with Scan 2153

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 21.7 | 80456 | PASS |
| 75 | 95 | 30 | 60 | 48.5 | 180032 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 371435 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 25032 | PASS |
| 173 | 174 | 0.00 | 2 | 0.6 | 1906 | PASS |
| 174 | 95 | 50 | 120 | 85.0 | 315563 | PASS |
| 175 | 174 | 5 | 9 | 7.7 | 24317 | PASS |
| 176 | 174 | 95 | 101 | 98.5 | 310720 | PASS |
| 177 | 176 | 5 | 9 | 6.6 | 20520 | PASS |

2a220438.d M2A9511.M Tue Oct 04 20:02:07 2022

Average of 14.717 to 14.728 min.: 2a220438.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.00 | 3387 | 49.00 | 16743 | 63.00 | 12147 | 76.00 | 15245 |
| 37.00 | 20331 | 50.00 | 80456 | 63.95 | 1389 | 77.00 | 1923 |
| 38.05 | 17029 | 51.00 | 23797 | 65.00 | 70 | 77.80 | 260 |
| 39.05 | 6727 | 52.05 | 1083 | 66.95 | 1086 | 78.05 | 1079 |
| 39.90 | 209 | 55.00 | 854 | 68.00 | 36656 | 78.90 | 9338 |
| 42.95 | 211 | 56.00 | 5889 | 69.00 | 36285 | 79.90 | 2773 |
| 43.95 | 2175 | 57.00 | 10249 | 70.05 | 2458 | 80.90 | 9674 |
| 45.05 | 3704 | 58.05 | 577 | 71.95 | 1685 | 81.90 | 2058 |
| 45.95 | 186 | 60.00 | 3954 | 73.00 | 14501 | 83.00 | 129 |
| 47.00 | 6190 | 61.00 | 16676 | 74.00 | 57555 | 85.90 | 357 |
| 47.95 | 2136 | 62.00 | 16213 | 75.00 | 180032 | 87.00 | 14917 |

Average of 14.717 to 14.728 min.: 2a220438.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 87.95 | 14829 | 104.90 | 467 | 117.90 | 1493 | 140.90 | 3631 |
| 90.95 | 1166 | 105.85 | 1460 | 118.95 | 2032 | 141.85 | 474 |
| 92.00 | 9600 | 106.70 | 73 | 123.80 | 167 | 142.90 | 3601 |
| 93.00 | 14139 | 106.95 | 191 | 125.70 | 74 | 143.85 | 164 |
| 94.00 | 39019 | 109.80 | 335 | 127.95 | 1277 | 144.90 | 355 |
| 95.00 | 371435 | 110.95 | 205 | 128.95 | 523 | 145.85 | 477 |
| 96.00 | 25032 | 111.70 | 78 | 129.90 | 1423 | 146.80 | 110 |
| 96.95 | 856 | 112.85 | 309 | 130.95 | 474 | 147.95 | 840 |
| 102.70 | 147 | 114.85 | 508 | 134.85 | 588 | 148.90 | 262 |
| 102.90 | 87 | 115.90 | 1324 | 136.90 | 673 | 149.80 | 254 |
| 103.90 | 1345 | 116.95 | 2138 | 139.85 | 324 | 151.80 | 83 |

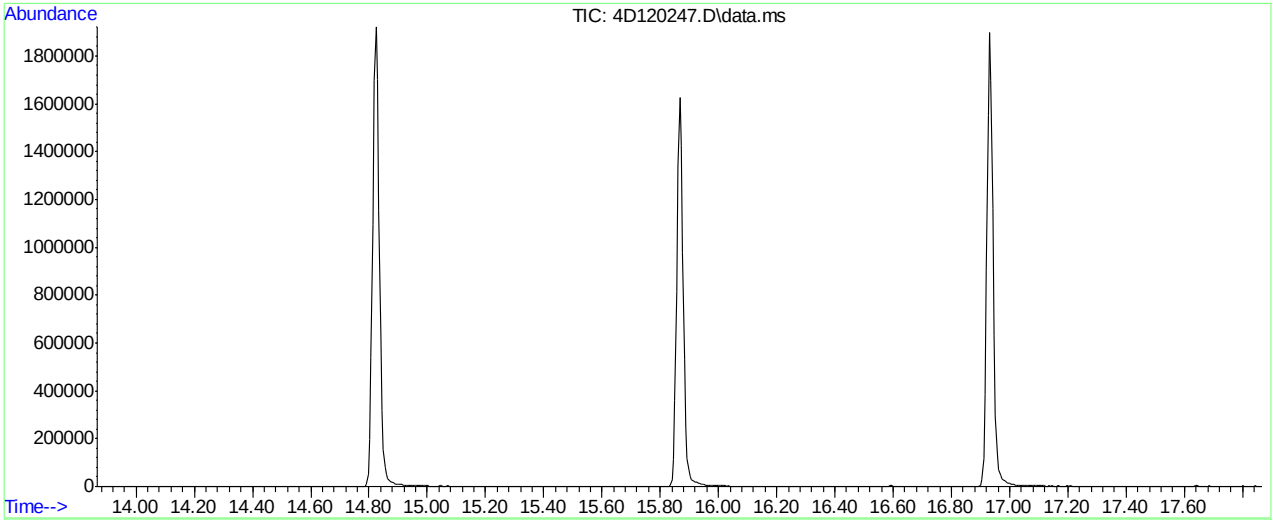
Average of 14.717 to 14.728 min.: 2a220438.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 152.85 | 263 | 174.95 | 24317 | | | | |
| 153.90 | 172 | 175.90 | 310720 | | | | |
| 154.95 | 747 | 176.95 | 20520 | | | | |
| 156.90 | 566 | 177.85 | 558 | | | | |
| 158.10 | 70 | | | | | | |
| 158.85 | 466 | | | | | | |
| 160.95 | 543 | | | | | | |
| 171.80 | 107 | | | | | | |
| 172.00 | 127 | | | | | | |
| 173.00 | 1906 | | | | | | |
| 173.90 | 315563 | | | | | | |

SW-846 Method 8260

Data File : C:\msdchem\1\data\V4D5341\4D120247.D  Vial: 1
Acq On : 13 Aug 2022 7:58 pm  Operator: PrashanS
Sample : BFB  Inst : MS4D
Misc : MS61262,V4D5341,5,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D5341.M (RTE Integrator)
Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um




AutoFind: Scans 2179, 2180, 2181; Background Corrected with Scan 2171

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 20.6 | 56496 | PASS |
| 75 | 95 | 30 | 60 | 51.6 | 141485 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 274069 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 18675 | PASS |
| 173 | 174 | 0.00 | 2 | 1.1 | 2724 | PASS |
| 174 | 95 | 50 | 120 | 93.5 | 256363 | PASS |
| 175 | 174 | 5 | 9 | 7.3 | 18765 | PASS |
| 176 | 174 | 95 | 101 | 95.9 | 245909 | PASS |
| 177 | 176 | 5 | 9 | 6.6 | 16181 | PASS |

4D120247.D M4D5341.M Wed Aug 17 16:12:42 2022

Average of 15.861 to 15.872 min.: 4D120247.D\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.05 | 2919 | 49.05 | 12715 | 63.00 | 10913 | 74.05 | 49661 |
| 37.10 | 16428 | 50.10 | 56496 | 64.05 | 928 | 75.00 | 141485 |
| 38.10 | 14294 | 51.05 | 16825 | 65.00 | 116 | 76.05 | 11874 |
| 39.10 | 5241 | 52.05 | 655 | 66.90 | 235 | 77.00 | 1653 |
| 40.00 | 214 | 54.95 | 901 | 67.05 | 504 | 78.05 | 1188 |
| 42.95 | 133 | 56.00 | 4910 | 68.00 | 30384 | 78.90 | 15358 |
| 44.00 | 2243 | 57.05 | 9419 | 69.00 | 31067 | 79.95 | 3976 |
| 45.05 | 2749 | 58.00 | 375 | 70.00 | 2479 | 80.90 | 15398 |
| 46.05 | 251 | 60.05 | 2651 | 71.10 | 55 | 81.95 | 3248 |
| 47.05 | 2805 | 61.00 | 14160 | 72.05 | 1555 | 83.00 | 367 |
| 48.00 | 1644 | 62.00 | 13694 | 73.00 | 12847 | 85.90 | 322 |

Average of 15.861 to 15.872 min.: 4D120247.D\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 87.00 | 11332 | 104.85 | 471 | 118.90 | 1950 | 139.00 | 64 |
| 88.00 | 11179 | 105.90 | 1848 | 123.00 | 51 | 139.85 | 262 |
| 90.90 | 1439 | 106.85 | 367 | 123.85 | 214 | 140.95 | 3426 |
| 92.00 | 8441 | 109.90 | 290 | 124.80 | 54 | 141.95 | 408 |
| 93.00 | 13074 | 110.90 | 425 | 127.00 | 106 | 142.95 | 3719 |
| 94.00 | 33869 | 111.85 | 290 | 127.90 | 1139 | 143.90 | 266 |
| 95.00 | 274069 | 112.90 | 506 | 128.95 | 558 | 144.95 | 328 |
| 96.00 | 18675 | 114.95 | 311 | 129.95 | 1233 | 145.85 | 469 |
| 97.05 | 543 | 115.90 | 1528 | 130.90 | 512 | 147.00 | 183 |
| 102.90 | 237 | 116.95 | 2429 | 134.90 | 620 | 147.95 | 708 |
| 103.90 | 1904 | 117.90 | 1324 | 136.95 | 699 | 148.85 | 185 |

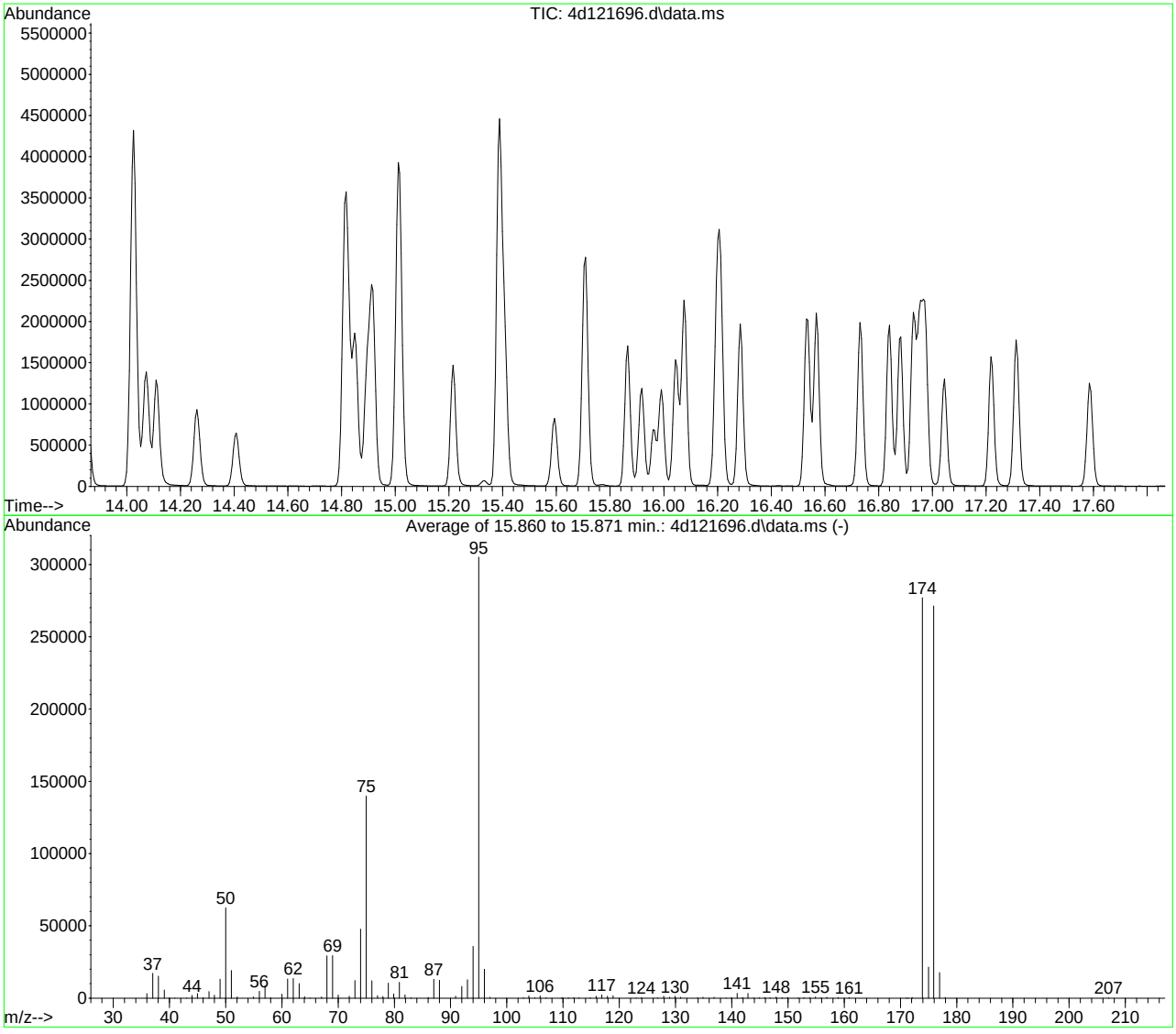
Average of 15.861 to 15.872 min.: 4D120247.D\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 149.90 | 330 | 175.00 | 18765 | | | | |
| 152.90 | 228 | 176.00 | 245909 | | | | |
| 153.95 | 118 | 177.00 | 16181 | | | | |
| 154.95 | 675 | 177.90 | 427 | | | | |
| 156.95 | 459 | 207.00 | 115 | | | | |
| 158.90 | 384 | | | | | | |
| 160.90 | 349 | | | | | | |
| 170.80 | 111 | | | | | | |
| 172.05 | 555 | | | | | | |
| 173.05 | 2724 | | | | | | |
| 174.00 | 256363 | | | | | | |

SW-846 Method 8260

Data File : C:\msdchem\1\data\re...22\v4d5406\4d121696.d Vial: 27
Acq On : 29 Sep 2022 8:44 pm Operator: taylors
Sample : BFB Inst : MS4D
Misc : MS62508,V4D5406,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D5341.M (RTE Integrator)
Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um




AutoFind: Scans 2627, 2628, 2629; Background Corrected with Scan 2618

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 20.5 | 62429 | PASS |
| 75 | 95 | 30 | 60 | 45.8 | 139764 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 305024 | PASS |
| 96 | 95 | 5 | 9 | 6.6 | 20077 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 90.8 | 277099 | PASS |
| 175 | 174 | 5 | 9 | 7.7 | 21347 | PASS |
| 176 | 174 | 95 | 101 | 97.9 | 271339 | PASS |
| 177 | 176 | 5 | 9 | 6.6 | 17779 | PASS |

4d121696.d M4D5341.M Fri Sep 30 19:29:58 2022

Average of 15.860 to 15.871 min.: 4d121696.d\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.00 | 3137 | 48.00 | 2003 | 62.00 | 13622 | 75.00 | 139764 |
| 37.05 | 17129 | 49.00 | 13152 | 63.05 | 10122 | 76.00 | 12039 |
| 38.05 | 15208 | 50.00 | 62429 | 64.05 | 903 | 77.00 | 1713 |
| 39.10 | 5539 | 51.00 | 19135 | 65.00 | 158 | 77.95 | 1235 |
| 40.00 | 53 | 52.05 | 849 | 67.05 | 762 | 78.90 | 10491 |
| 40.95 | 180 | 54.95 | 729 | 68.00 | 29325 | 79.90 | 2975 |
| 43.05 | 110 | 56.00 | 4776 | 69.00 | 29373 | 80.90 | 10940 |
| 44.00 | 1922 | 57.00 | 8673 | 70.00 | 2264 | 81.90 | 2296 |
| 45.00 | 3081 | 58.00 | 331 | 72.00 | 1415 | 83.00 | 265 |
| 46.05 | 269 | 60.00 | 2713 | 73.00 | 12247 | 86.00 | 411 |
| 47.05 | 4509 | 61.00 | 13226 | 74.00 | 47736 | 87.00 | 13004 |

Average of 15.860 to 15.871 min.: 4d121696.d\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 88.00 | 12404 | 105.90 | 1601 | 118.90 | 1718 | 139.00 | 59 |
| 90.90 | 1362 | 106.95 | 301 | 123.00 | 54 | 139.95 | 330 |
| 92.00 | 8150 | 109.70 | 75 | 123.90 | 254 | 140.95 | 3352 |
| 93.00 | 12707 | 109.90 | 110 | 126.80 | 69 | 141.90 | 416 |
| 94.00 | 35864 | 110.95 | 361 | 127.90 | 1273 | 142.90 | 3322 |
| 95.00 | 305024 | 111.90 | 222 | 128.95 | 651 | 143.90 | 139 |
| 96.00 | 20077 | 112.80 | 292 | 129.90 | 1318 | 144.90 | 333 |
| 97.00 | 581 | 114.85 | 330 | 130.90 | 586 | 145.90 | 463 |
| 102.95 | 220 | 115.90 | 1323 | 133.90 | 51 | 146.80 | 203 |
| 103.90 | 1530 | 116.90 | 2194 | 134.90 | 617 | 147.90 | 830 |
| 105.00 | 251 | 117.90 | 1282 | 136.85 | 604 | 148.95 | 283 |

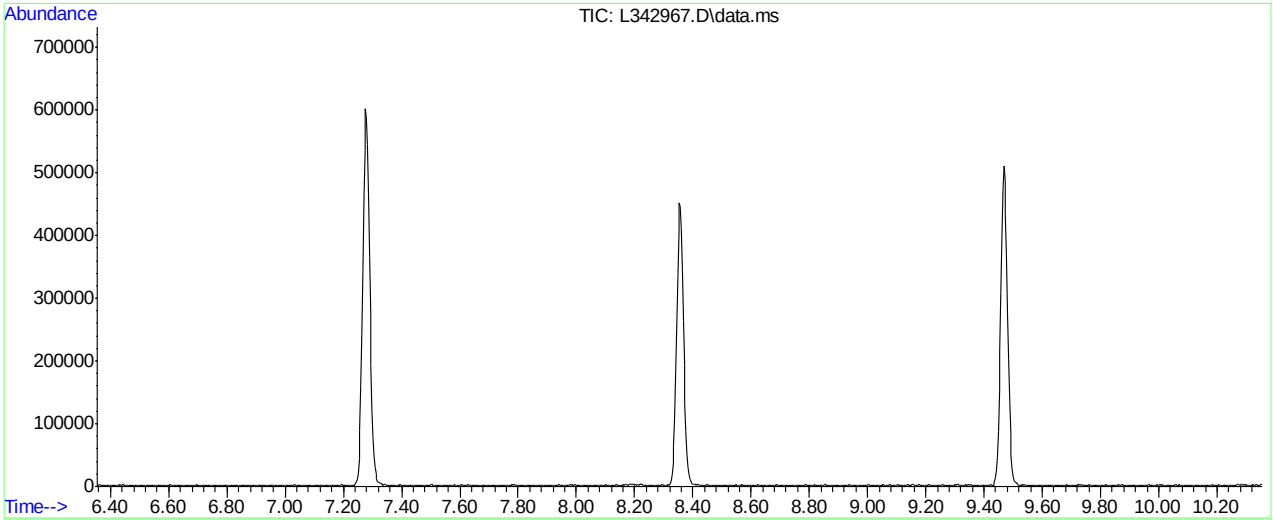
Average of 15.860 to 15.871 min.: 4d121696.d\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 149.90 | 416 | 172.10 | 230 | | | | |
| 151.85 | 136 | 173.90 | 277099 | | | | |
| 152.85 | 221 | 175.00 | 21347 | | | | |
| 153.85 | 204 | 175.90 | 271339 | | | | |
| 154.90 | 851 | 176.95 | 17779 | | | | |
| 155.90 | 83 | 177.95 | 479 | | | | |
| 156.90 | 545 | 207.00 | 107 | | | | |
| 158.90 | 406 | | | | | | |
| 160.90 | 488 | | | | | | |
| 171.00 | 190 | | | | | | |
| 171.30 | 115 | | | | | | |

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\VL10355\L342967.D  Vial: 1
Acq On : 15 Jun 2022 4:00 pm  Operator: BridgetK
Sample : bfb  Inst : GCMSL
Misc : MS59602,VL10355,5,,,,1  Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10355.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um




AutoFind: Scans 2139, 2140, 2141; Background Corrected with Scan 2126

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 15.4 | 15125 | PASS |
| 75 | 95 | 30 | 60 | 49.4 | 48661 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 98445 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 6625 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 67.7 | 66648 | PASS |
| 175 | 174 | 5 | 9 | 7.7 | 5157 | PASS |
| 176 | 174 | 95 | 101 | 96.2 | 64099 | PASS |
| 177 | 176 | 5 | 9 | 6.0 | 3835 | PASS |

L342967.D ML10355.M Thu Jun 16 15:29:52 2022 1

Average of 8.351 to 8.358 min.: L342967.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.05 | 681 | 49.00 | 3250 | 63.90 | 134 | 75.00 | 48661 |
| 37.10 | 3842 | 50.05 | 15125 | 64.05 | 194 | 76.00 | 4379 |
| 38.05 | 2959 | 51.10 | 4796 | 66.80 | 105 | 76.95 | 656 |
| 39.05 | 1410 | 52.10 | 204 | 67.10 | 123 | 77.70 | 75 |
| 39.95 | 141 | 55.05 | 425 | 68.00 | 9051 | 78.05 | 290 |
| 42.00 | 89 | 56.00 | 1315 | 69.05 | 9131 | 78.95 | 3052 |
| 43.00 | 221 | 57.00 | 2728 | 70.00 | 827 | 79.95 | 802 |
| 44.00 | 539 | 60.00 | 741 | 71.10 | 97 | 80.95 | 2857 |
| 45.05 | 771 | 61.00 | 4236 | 72.00 | 408 | 81.90 | 683 |
| 47.05 | 720 | 62.05 | 4544 | 73.05 | 4508 | 83.00 | 262 |
| 48.00 | 555 | 63.00 | 3193 | 74.00 | 17262 | 87.00 | 3854 |

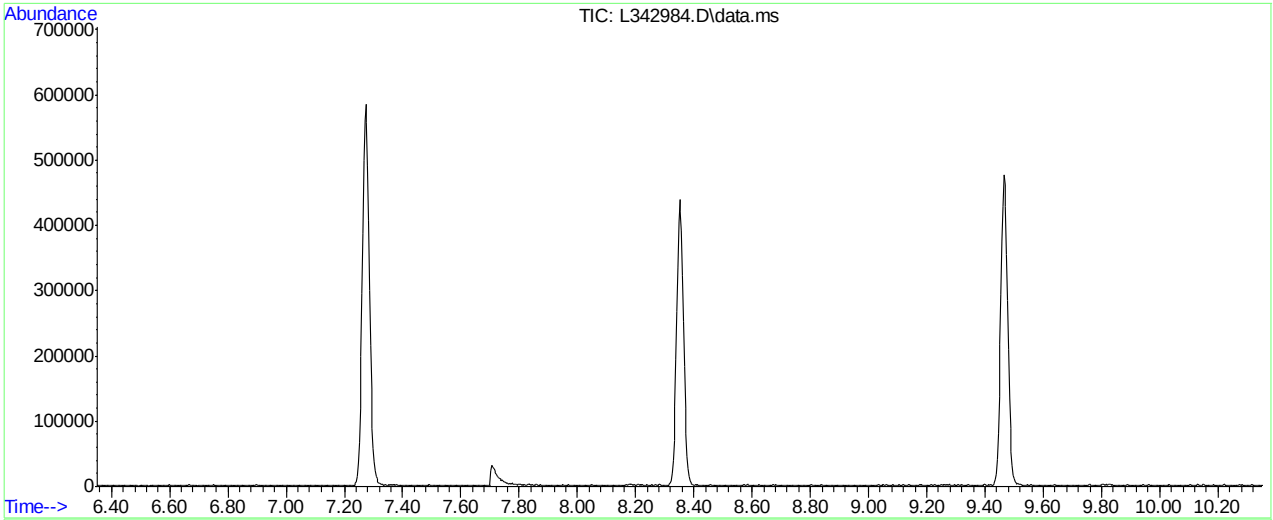
Average of 8.351 to 8.358 min.: L342967.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 87.95 | 3421 | 105.10 | 72 | 130.00 | 120 | 172.30 | 128 |
| 90.80 | 148 | 105.90 | 593 | 134.80 | 88 | 173.90 | 66648 |
| 91.10 | 140 | 111.10 | 71 | 136.90 | 103 | 174.95 | 5157 |
| 92.00 | 2698 | 112.80 | 95 | 140.90 | 887 | 175.90 | 64099 |
| 93.00 | 3888 | 115.95 | 320 | 142.00 | 85 | 176.95 | 3835 |
| 94.00 | 11458 | 116.90 | 681 | 142.85 | 1175 | | |
| 95.00 | 98445 | 117.80 | 367 | 147.90 | 149 | | |
| 96.00 | 6625 | 118.95 | 520 | 154.90 | 149 | | |
| 97.00 | 75 | 127.95 | 214 | 157.00 | 151 | | |
| 103.95 | 450 | 129.00 | 123 | 160.80 | 72 | | |
| 104.80 | 67 | 129.80 | 88 | 170.50 | 143 | | |

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\VL10355\L342984.D  Vial: 18
Acq On : 16 Jun 2022 9:43 am  Operator: BridgetK
Sample : bfb2  Inst : GCMSL
Misc : MS59602,VL10355,5,,,,1  Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10355.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um




AutoFind: Scans 2138, 2139, 2140; Background Corrected with Scan 2124

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 15.8 | 14743 | PASS |
| 75 | 95 | 30 | 60 | 50.6 | 47061 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 93093 | PASS |
| 96 | 95 | 5 | 9 | 6.9 | 6458 | PASS |
| 173 | 174 | 0.00 | 2 | 0.3 | 176 | PASS |
| 174 | 95 | 50 | 120 | 68.9 | 64179 | PASS |
| 175 | 174 | 5 | 9 | 7.4 | 4737 | PASS |
| 176 | 174 | 95 | 101 | 97.9 | 62803 | PASS |
| 177 | 176 | 5 | 9 | 6.6 | 4165 | PASS |

L342984.D ML10355.M Thu Jun 16 15:31:19 2022 1

Average of 8.348 to 8.354 min.: L342984.D\data.ms
bfb2
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 35.95 | 826 | 48.10 | 471 | 62.00 | 4093 | 74.05 | 15753 |
| 37.05 | 3606 | 49.05 | 3350 | 63.05 | 3093 | 75.00 | 47061 |
| 38.10 | 3755 | 50.00 | 14743 | 63.85 | 157 | 76.00 | 4182 |
| 39.05 | 1470 | 51.05 | 4490 | 64.10 | 175 | 76.95 | 672 |
| 40.00 | 1 | 51.90 | 192 | 66.95 | 9 | 77.30 | 186 |
| 41.05 | 163 | 54.80 | 83 | 68.05 | 9890 | 77.90 | 113 |
| 43.00 | 117 | 55.05 | 261 | 69.00 | 8997 | 78.05 | 212 |
| 44.00 | 201 | 56.05 | 1433 | 70.00 | 804 | 78.95 | 2685 |
| 45.00 | 772 | 57.05 | 1808 | 71.20 | 80 | 79.90 | 977 |
| 47.05 | 886 | 60.05 | 754 | 71.95 | 616 | 80.90 | 2942 |
| 47.60 | 169 | 61.00 | 4357 | 72.95 | 3914 | 81.85 | 647 |

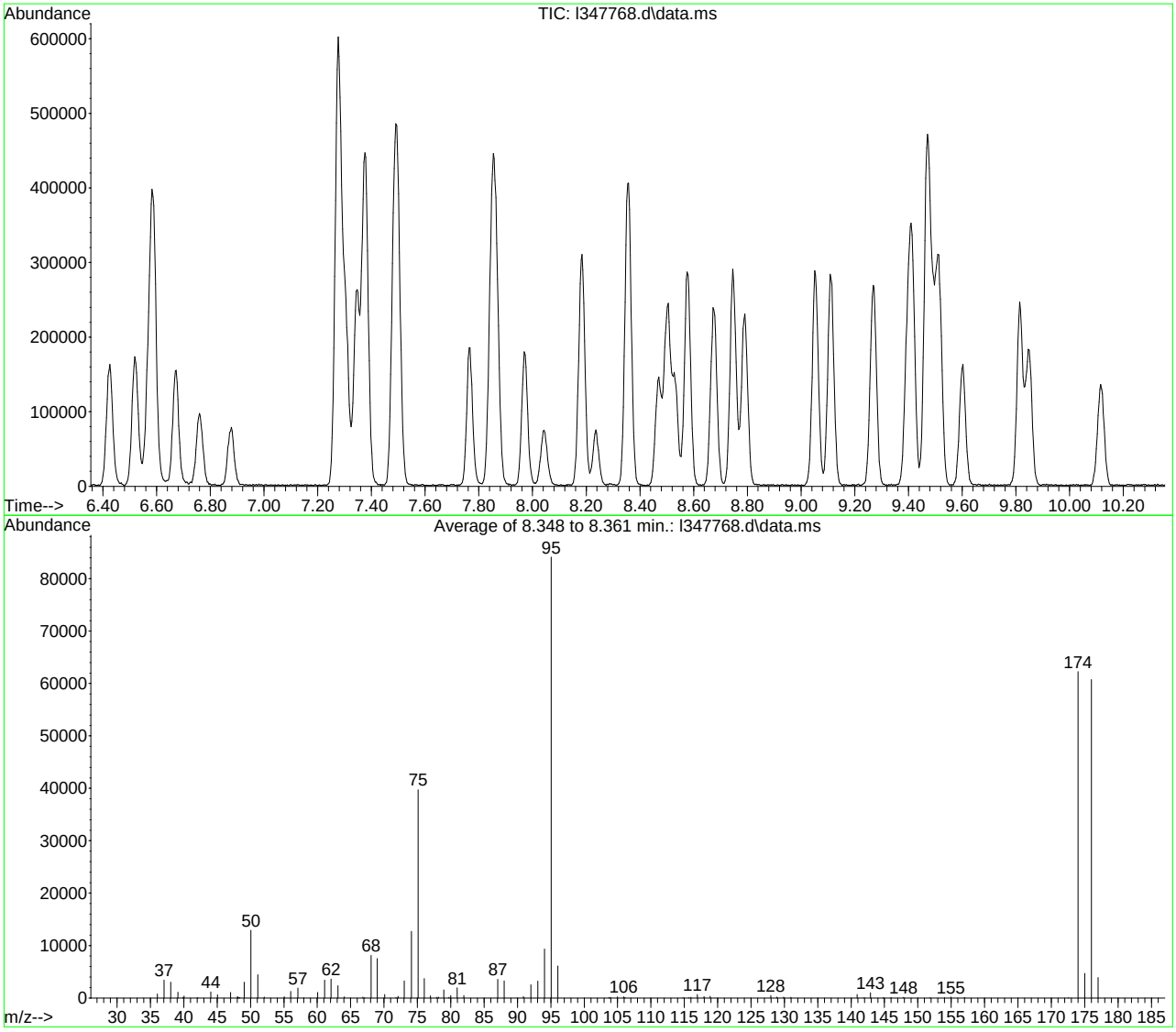
Average of 8.348 to 8.354 min.: L342984.D\data.ms
bfb2
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 82.90 | 162 | 105.00 | 97 | 128.90 | 68 | 172.90 | 176 |
| 87.00 | 3873 | 105.95 | 413 | 129.80 | 130 | 173.90 | 64179 |
| 87.90 | 3598 | 112.70 | 69 | 130.80 | 92 | 174.95 | 4737 |
| 90.95 | 475 | 114.95 | 214 | 134.90 | 82 | 175.90 | 62803 |
| 92.00 | 2503 | 115.80 | 162 | 136.90 | 220 | 176.90 | 4165 |
| 92.95 | 4004 | 115.95 | 337 | 140.90 | 998 | 177.70 | 71 |
| 94.00 | 10851 | 116.90 | 786 | 142.90 | 844 | 206.90 | 80 |
| 95.00 | 93093 | 117.70 | 79 | 147.85 | 272 | | |
| 96.00 | 6458 | 118.00 | 312 | 154.85 | 240 | | |
| 97.00 | 247 | 118.90 | 496 | 156.90 | 73 | | |
| 103.95 | 352 | 127.95 | 320 | 160.90 | 188 | | |

SW-846 Method 8260

Data File : C:\msdchem\1\data\kr...022\vl10517\l347768.d Vial: 3
Acq On : 3 Oct 2022 11:43 am Operator: nicoleh
Sample : bfb Inst : GCMSL
Misc : MS62644,VL10517,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10355.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um




Spectrum Information: Average of 8.348 to 8.361 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 15.4 | 12914 | PASS |
| 75 | 95 | 30 | 60 | 47.2 | 39723 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 84117 | PASS |
| 96 | 95 | 5 | 9 | 7.3 | 6113 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 74.0 | 62256 | PASS |
| 175 | 174 | 5 | 9 | 7.5 | 4678 | PASS |
| 176 | 174 | 95 | 101 | 97.6 | 60766 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 3883 | PASS |

l347768.d ML10355.M Mon Oct 03 22:46:39 2022

Average of 8.348 to 8.361 min.: l347768.d\data.ms
bfb

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.05 | 749.4 | 48.10 | 151.2 | 60.05 | 1057.2 | 72.10 | 345.4 |
| 37.05 | 3427 | 48.20 | 67.6 | 61.10 | 3426.2 | 73.05 | 3279.6 |
| 38.05 | 3012.4 | 48.40 | 63.6 | 62.05 | 3586.8 | 74.10 | 12726.2 |
| 39.10 | 1108.2 | 49.05 | 3023.8 | 63.10 | 2310.2 | 75.10 | 39723.2 |
| 39.90 | 124 | 50.05 | 12913.6 | 64.05 | 241 | 76.05 | 3683.8 |
| 40.05 | 357.8 | 51.10 | 4415.6 | 66.85 | 156.6 | 76.95 | 420.8 |
| 42.10 | 56.4 | 52.05 | 162.2 | 67.10 | 49.2 | 77.90 | 126.2 |
| 44.05 | 1173.8 | 55.05 | 236.8 | 68.05 | 8127.4 | 78.15 | 160.2 |
| 45.05 | 628.4 | 56.00 | 1237.8 | 69.00 | 7530.4 | 78.95 | 1524.8 |
| 47.00 | 1031.6 | 57.10 | 1865.6 | 70.10 | 650.8 | 79.75 | 129.8 |
| 48.05 | 250.8 | 58.00 | 43.8 | 71.80 | 65.4 | 80.00 | 455.8 |

Average of 8.348 to 8.361 min.: l347768.d\data.ms
bfb

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 80.95 | 1953.4 | 103.95 | 137.8 | 128.85 | 162.4 | 154.95 | 152.2 |
| 81.95 | 453.8 | 105.00 | 212.4 | 129.90 | 190 | 157.00 | 91.8 |
| 87.05 | 3555.4 | 105.90 | 214 | 130.95 | 125.8 | 172.60 | 47 |
| 88.00 | 3249.4 | 106.10 | 73.8 | 140.90 | 674.8 | 174.00 | 62256 |
| 90.90 | 292.6 | 114.80 | 51.4 | 141.90 | 46 | 175.00 | 4677.6 |
| 92.00 | 2521.6 | 115.70 | 50.6 | 142.90 | 1003.8 | 176.00 | 60766.4 |
| 93.05 | 3206 | 116.00 | 102.8 | 144.80 | 45.2 | 177.00 | 3883 |
| 94.05 | 9362 | 116.95 | 639.8 | 146.00 | 51.8 | | |
| 95.05 | 84116.8 | 117.95 | 267.4 | 147.85 | 127.2 | | |
| 96.05 | 6113.2 | 118.90 | 326.6 | 151.80 | 41.4 | | |
| 103.70 | 57.6 | 127.95 | 472.6 | 154.00 | 43.6 | | |

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200548.D
Acq On : 28 Sep 2022 9:15 pm
Operator : PrashanS
Sample : IC8636-0.2
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 13:50:55 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 348975 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 393791 | 50.00 | ug/L | | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 552425 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 6.08 | 117 | 504410 | 50.00 | ug/L | | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.89 | 152 | 247386 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 182448 | 49.33 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.66% | | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 208890 | 50.87 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.74% | | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 605292 | 50.60 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.20% | | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 218369 | 51.57 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.14% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 6) chlorodifluoromethane | 1.25 | 51 | 748 | 0.23 | ug/L | | 66 |
| 12) trichlorofluoromethane | 1.86 | 101 | 878 | 0.18 | ug/L | | 92 |
| 16) 1,1-dichloroethene | 2.17 | 96 | 392 | 0.17 | ug/L | | 83 |
| 17) freon 113 | 2.17 | 101 | 493 | 0.18 | ug/L | | 93 |
| 24) methyl tert butyl ether | 2.60 | 73 | 1279 | 0.20 | ug/L | | 92 |
| 27) hexane | 2.77 | 57 | 865 | 0.23 | ug/L | | 86 |
| 28) di-isopropyl ether | 2.87 | 45 | 1549 | 0.19 | ug/L | | 94 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 745 | 0.18 | ug/L | | 79 |
| 31) chloroprene | 2.92 | 53 | 770 | 0.19 | ug/L | | 73 |
| 33) ethyl tert-butyl ether | 3.09 | 59 | 1475 | 0.20 | ug/L | | 97 |
| 35) 2,2-dichloropropane | 3.22 | 77 | 745 | 0.22 | ug/L | | 79 |
| 38) propionitrile | 3.23 | 54 | 1166 | 1.95 | ug/L | | 83 |
| 40) bromochloromethane | 3.36 | 128 | 311 | 0.24 | ug/L | | 94 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 877 | 0.21 | ug/L | # | 1 |
| 46) cyclohexane | 3.58 | 84 | 799 | 0.21 | ug/L | # | 68 |
| 48) 1,1-dichloropropene | 3.62 | 75 | 743 | 0.22 | ug/L | | 81 |
| 50) carbon tetrachloride | 3.62 | 117 | 791 | 0.21 | ug/L | | 97 |
| 54) iso-octane | 3.82 | 57 | 1682 | 0.22 | ug/L | | 88 |
| 57) benzene | 3.75 | 78 | 2285 | 0.25 | ug/L | | 97 |
| 58) tert-amyl methyl ether | 3.82 | 73 | 1179 | 0.18 | ug/L | | 91 |
| 59) heptane | 3.91 | 57 | 283 | 0.21 | ug/L | # | 84 |
| 62) ethyl acrylate | 4.19 | 55 | 682 | 0.17 | ug/L | | 72 |
| 68) methylcyclohexane | 4.33 | 83 | 774 | 0.19 | ug/L | | 91 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 867 | 0.64 | ug/L | | 97 |
| 78) 1,1,2-trichloroethane | 5.35 | 83 | 359 | 0.21 | ug/L | # | 75 |
| 79) tetrachloroethene | 5.42 | 164 | 527 | 0.23 | ug/L | | 95 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 768 | 0.24 | ug/L | | 98 |
| 81) 2-hexanone | 5.49 | 58 | 901 | 0.66 | ug/L | | 93 |
| 82) butyl acetate | 5.57 | 56 | 429 | 0.23 | ug/L | # | 80 |
| 83) dibromochloromethane | 5.64 | 129 | 461 | 0.18 | ug/L | | 76 |
| 85) n-butyl ether | 6.15 | 57 | 1846 | 0.20 | ug/L | | 92 |
| 88) ethylbenzene | 6.17 | 91 | 2440 | 0.23 | ug/L | | 87 |
| 89) m,p-xylene | 6.27 | 106 | 1748 | 0.41 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200548.D
Acq On : 28 Sep 2022 9:15 pm
Operator : PrashanS
Sample : IC8636-0.2
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 13:50:55 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

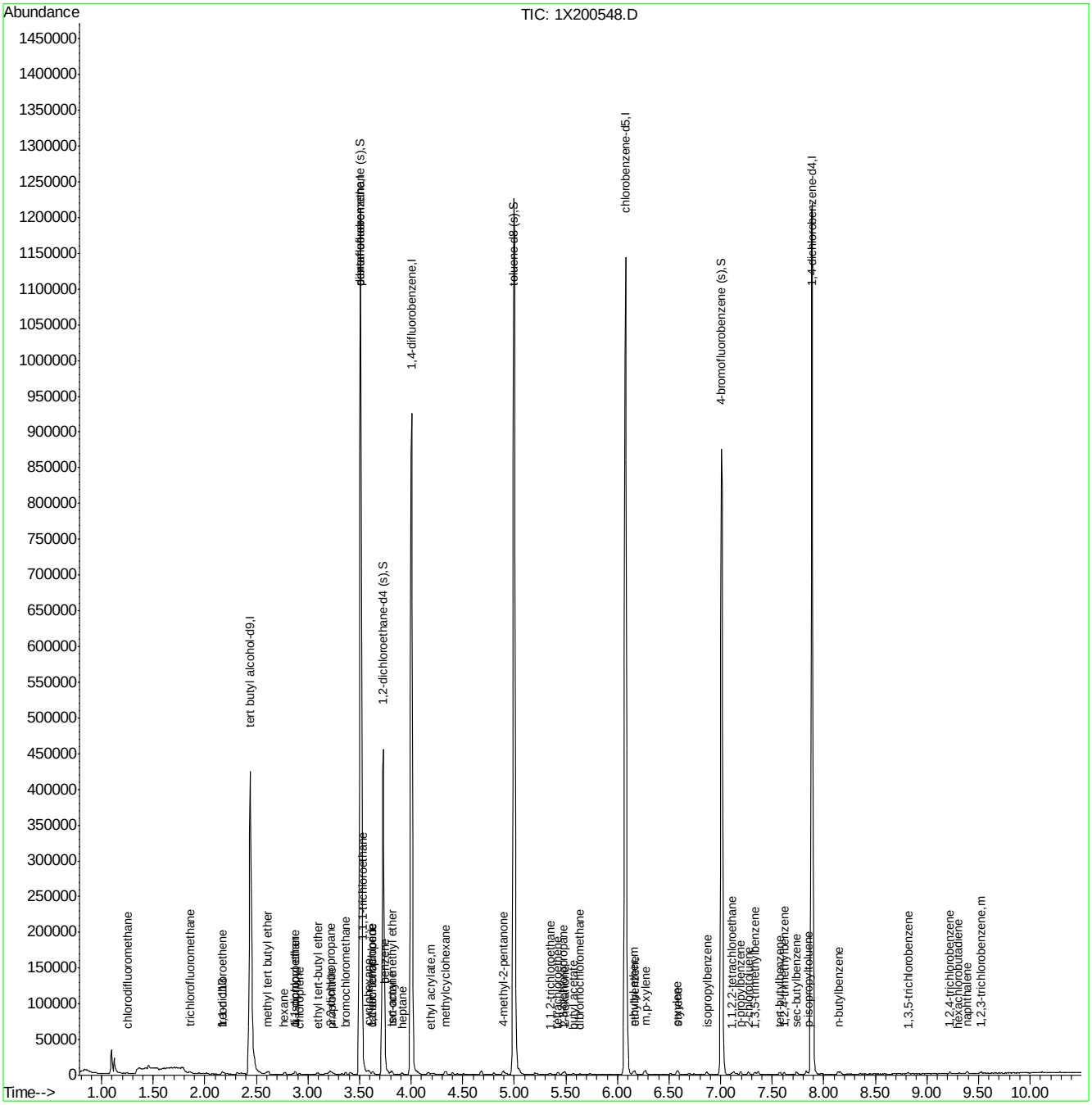
| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 90) o-xylene | 6.58 | 91 | 1621 | 0.20 | ug/L | | 88 |
| 91) styrene | 6.59 | 104 | 1642 | 0.24 | ug/L | | 91 |
| 95) isopropylbenzene | 6.86 | 105 | 2137 | 0.20 | ug/L | | 97 |
| 100) 1,1,2,2-tetrachloroethane | 7.11 | 83 | 453 | 0.16 | ug/L | | 95 |
| 103) n-propylbenzene | 7.19 | 91 | 2577 | 0.23 | ug/L | | 99 |
| 104) 2-chlorotoluene | 7.27 | 126 | 448 | 0.18 | ug/L | # | 84 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 1428 | 0.19 | ug/L | | 89 |
| 107) tert-butylbenzene | 7.57 | 119 | 1489 | 0.20 | ug/L | | 90 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 1596 | 0.21 | ug/L | | 100 |
| 109) sec-butylbenzene | 7.73 | 105 | 2010 | 0.20 | ug/L | | 95 |
| 111) p-isopropyltoluene | 7.85 | 119 | 1680 | 0.19 | ug/L | | 94 |
| 115) n-butylbenzene | 8.13 | 92 | 804 | 0.21 | ug/L | | 84 |
| 117) 1,3,5-trichlorobenzene | 8.82 | 180 | 653 | 0.22 | ug/L | | 85 |
| 118) hexachlorobutadiene | 9.30 | 225 | 193 | 0.18 | ug/L | # | 49 |
| 119) naphthalene | 9.39 | 128 | 2329 | 0.24 | ug/L | | 81 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 575 | 0.22 | ug/L | # | 71 |
| 121) 1,2,3-trichlorobenzene | 9.53 | 180 | 539 | 0.21 | ug/L | | 86 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200548.D
Acq On : 28 Sep 2022 9:15 pm
Operator : PrashanS
Sample : IC8636-0.2
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 13:50:55 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200550.D
Acq On : 28 Sep 2022 9:47 pm
Operator : PrashanS
Sample : IC8636-0.5
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 29 13:52:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 344022 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 387430 | 50.00 | ug/L | | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 545173 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 6.08 | 117 | 510604 | 50.00 | ug/L | | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.89 | 152 | 252825 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 184543 | 50.72 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.44% | | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 211686 | 52.23 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 104.46% | | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 608329 | 50.24 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.48% | | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 222341 | 51.38 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.76% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 6) chlorodifluoromethane | 1.26 | 51 | 1749 | 0.55 | ug/L | | 89 |
| 7) dichlorodifluoromethane | 1.24 | 85 | 1460 | 0.46 | ug/L | | 94 |
| 9) vinyl chloride | 1.44 | 62 | 1847 | 0.52 | ug/L | | 95 |
| 12) trichlorofluoromethane | 1.87 | 101 | 2028 | 0.42 | ug/L | | 94 |
| 14) ethyl ether | 2.03 | 74 | 545 | 0.47 | ug/L | # | 65 |
| 16) 1,1-dichloroethene | 2.18 | 96 | 1138 | 0.51 | ug/L | | 96 |
| 17) freon 113 | 2.17 | 101 | 1350 | 0.50 | ug/L | | 92 |
| 18) acetone | 2.19 | 58 | 853 | 2.37 | ug/L | # | 67 |
| 21) carbon disulfide | 2.32 | 76 | 2774 | 0.49 | ug/L | | 97 |
| 22) methylene chloride | 2.47 | 84 | 1051 | 0.50 | ug/L | # | 81 |
| 24) methyl tert butyl ether | 2.61 | 73 | 3034 | 0.47 | ug/L | | 99 |
| 25) acrylonitrile | 2.59 | 53 | 647 | 0.45 | ug/L | | 98 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 1173 | 0.50 | ug/L | | 97 |
| 27) hexane | 2.78 | 57 | 1847 | 0.50 | ug/L | | 88 |
| 28) di-isopropyl ether | 2.88 | 45 | 4075 | 0.51 | ug/L | | 93 |
| 29) 2-butanone | 3.20 | 72 | 725 | 1.66 | ug/L | | 98 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 2038 | 0.50 | ug/L | | 95 |
| 31) chloroprene | 2.93 | 53 | 1637 | 0.40 | ug/L | | 97 |
| 33) ethyl tert-butyl ether | 3.10 | 59 | 3264 | 0.45 | ug/L | | 91 |
| 34) ethyl acetate | 3.21 | 45 | 343 | 0.52 | ug/L | # | 25 |
| 35) 2,2-dichloropropane | 3.23 | 77 | 1714 | 0.51 | ug/L | | 95 |
| 36) cis-1,2-dichloroethene | 3.22 | 96 | 1350 | 0.53 | ug/L | | 87 |
| 37) methyl acrylate | 3.25 | 55 | 1757 | 0.44 | ug/L | | 90 |
| 38) propionitrile | 3.24 | 54 | 2760 | 4.69 | ug/L | # | 60 |
| 39) tert-butyl formate | 3.43 | 59 | 712 | 0.43 | ug/L | | 83 |
| 40) bromochloromethane | 3.37 | 128 | 676 | 0.53 | ug/L | | 82 |
| 42) chloroform | 3.42 | 83 | 2416 | 0.59 | ug/L | | 94 |
| 44) methacrylonitrile | 3.34 | 67 | 595 | 0.46 | ug/L | | 86 |
| 45) 1,1,1-trichloroethane | 3.54 | 97 | 2025 | 0.50 | ug/L | # | 1 |
| 46) cyclohexane | 3.59 | 84 | 1755 | 0.48 | ug/L | | 92 |
| 47) tert amyl alcohol | 3.73 | 55 | 535 | 2.57 | ug/L | # | 62 |
| 48) 1,1-dichloropropene | 3.63 | 75 | 1544 | 0.46 | ug/L | | 94 |
| 50) carbon tetrachloride | 3.63 | 117 | 1687 | 0.45 | ug/L | | 91 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200550.D
Acq On : 28 Sep 2022 9:47 pm
Operator : PrashanS
Sample : IC8636-0.5
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 29 13:52:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 51) isopropyl acetate | 3.75 | 87 | 259 | 0.41 ug/L | # | 25 |
| 54) iso-octane | 3.81 | 57 | 3957 | 0.53 ug/L | | 94 |
| 55) epichlorohydrin | 4.72 | 57 | 794 | 1.92 ug/L | | 80 |
| 56) n-butyl alcohol | 4.06 | 56 | 2312 | 16.86 ug/L | | 89 |
| 57) benzene | 3.75 | 78 | 4276 | 0.48 ug/L | | 100 |
| 58) tert-amyl methyl ether | 3.82 | 73 | 2717 | 0.42 ug/L | | 93 |
| 59) heptane | 3.91 | 57 | 603 | 0.45 ug/L | | 88 |
| 61) trichloroethene | 4.17 | 130 | 1396 | 0.48 ug/L | | 92 |
| 62) ethyl acrylate | 4.20 | 55 | 1812 | 0.45 ug/L | | 82 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 3456 | 2.02 ug/L | | 94 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 406 | 0.43 ug/L | # | 83 |
| 67) dibromomethane | 4.40 | 93 | 905 | 0.60 ug/L | # | 74 |
| 68) methylcyclohexane | 4.33 | 83 | 1933 | 0.49 ug/L | | 86 |
| 69) bromodichloromethane | 4.50 | 83 | 1284 | 0.45 ug/L | | 73 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 1354 | 0.40 ug/L | | 93 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 2395 | 1.79 ug/L | | 90 |
| 75) toluene | 5.05 | 92 | 2709 | 0.48 ug/L | | 98 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 1339 | 0.43 ug/L | | 98 |
| 77) ethyl methacrylate | 5.23 | 69 | 1260 | 0.42 ug/L | # | 85 |
| 78) 1,1,2-trichloroethane | 5.35 | 83 | 774 | 0.44 ug/L | | 95 |
| 79) tetrachloroethene | 5.43 | 164 | 968 | 0.42 ug/L | | 84 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 1548 | 0.47 ug/L | | 91 |
| 81) 2-hexanone | 5.49 | 58 | 2530 | 1.83 ug/L | | 99 |
| 82) butyl acetate | 5.57 | 56 | 902 | 0.47 ug/L | # | 61 |
| 83) dibromochloromethane | 5.64 | 129 | 974 | 0.38 ug/L | | 88 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 1062 | 0.43 ug/L | | 98 |
| 85) n-butyl ether | 6.15 | 57 | 4381 | 0.46 ug/L | | 95 |
| 86) chlorobenzene | 6.10 | 112 | 3103 | 0.49 ug/L | | 82 |
| 88) ethylbenzene | 6.17 | 91 | 5149 | 0.48 ug/L | | 93 |
| 89) m,p-xylene | 6.27 | 106 | 4048 | 0.95 ug/L | | 97 |
| 90) o-xylene | 6.58 | 91 | 3780 | 0.46 ug/L | | 98 |
| 91) styrene | 6.59 | 104 | 3123 | 0.45 ug/L | | 88 |
| 92) butyl acrylate | 6.52 | 55 | 2141 | 0.42 ug/L | | 90 |
| 93) n-amyl acetate | 6.69 | 70 | 676 | 0.40 ug/L | # | 65 |
| 95) isopropylbenzene | 6.86 | 105 | 5086 | 0.47 ug/L | | 98 |
| 99) bromobenzene | 7.13 | 156 | 1454 | 0.51 ug/L | | 80 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 1229 | 0.41 ug/L | | 86 |
| 102) 1,2,3-trichloropropane | 7.16 | 110 | 396 | 0.41 ug/L | # | 73 |
| 103) n-propylbenzene | 7.19 | 91 | 5462 | 0.47 ug/L | | 94 |
| 104) 2-chlorotoluene | 7.27 | 126 | 1257 | 0.48 ug/L | | 86 |
| 105) 4-chlorotoluene | 7.37 | 91 | 3238 | 0.48 ug/L | | 99 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 3495 | 0.45 ug/L | | 96 |
| 107) tert-butylbenzene | 7.57 | 119 | 3576 | 0.48 ug/L | | 98 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 3591 | 0.47 ug/L | | 90 |
| 109) sec-butylbenzene | 7.74 | 105 | 4769 | 0.46 ug/L | | 90 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 2627 | 0.52 ug/L | | 99 |
| 111) p-isopropyltoluene | 7.85 | 119 | 4083 | 0.46 ug/L | | 89 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 2861 | 0.55 ug/L | | 93 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 2285 | 0.47 ug/L | | 97 |
| 115) n-butylbenzene | 8.13 | 92 | 1557 | 0.40 ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200550.D
Acq On : 28 Sep 2022 9:47 pm
Operator : PrashanS
Sample : IC8636-0.5
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 29 13:52:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

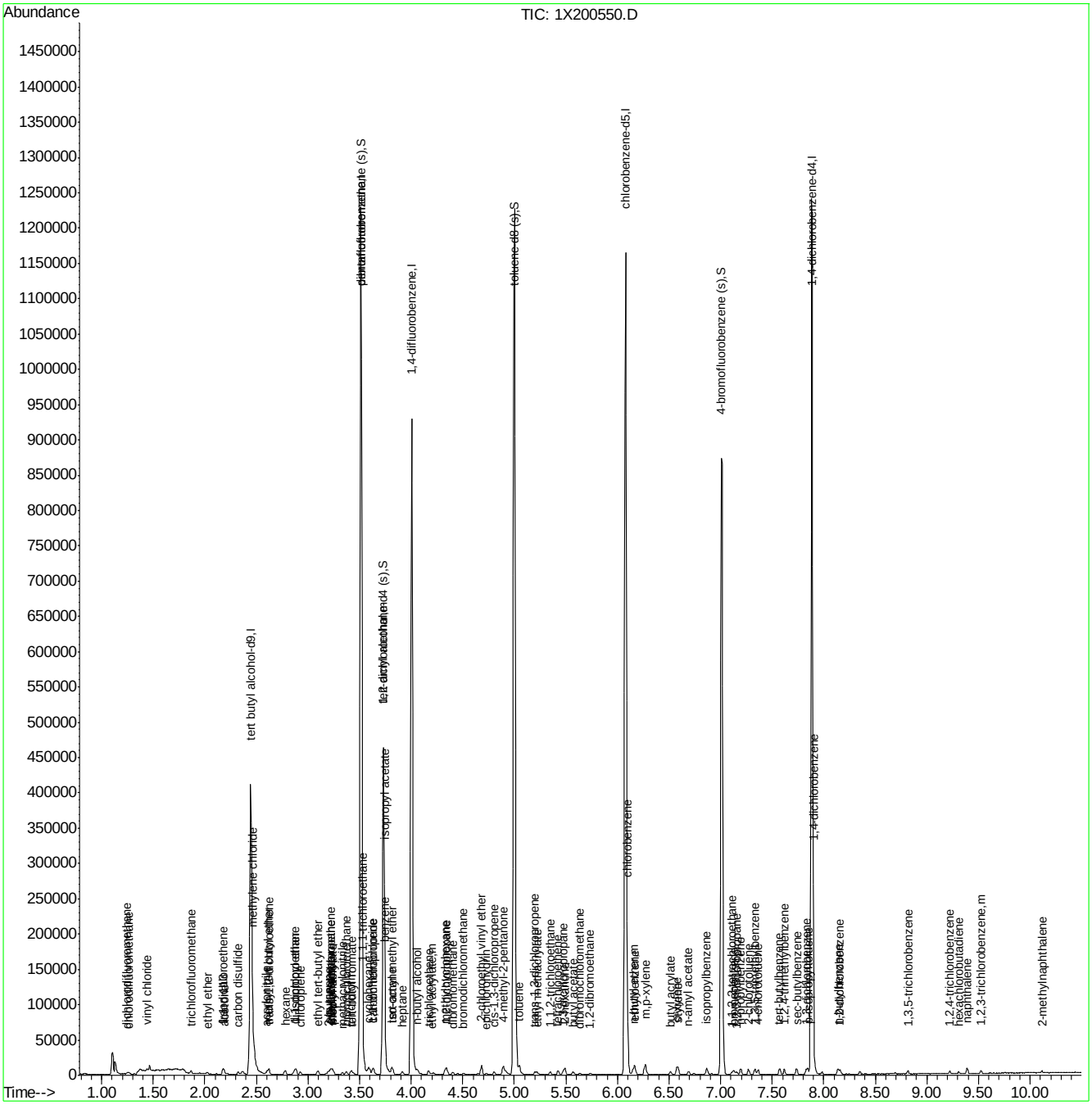
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 117) 1,3,5-trichlorobenzene | 8.82 | 180 | 1412 | 0.46 | ug/L | 87 |
| 118) hexachlorobutadiene | 9.31 | 225 | 493 | 0.45 | ug/L | 98 |
| 119) naphthalene | 9.39 | 128 | 4619 | 0.47 | ug/L | 96 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 1199 | 0.45 | ug/L | 89 |
| 121) 1,2,3-trichlorobenzene | 9.53 | 180 | 1248 | 0.48 | ug/L | 92 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 1193 | 0.22 | ug/L | 95 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200550.D
Acq On : 28 Sep 2022 9:47 pm
Operator : PrashanS
Sample : IC8636-0.5
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 29 13:52:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200552.D
Acq On : 28 Sep 2022 10:23 pm
Operator : PrashanS
Sample : IC8636-1
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 29 13:54:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 360242 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 388987 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 545443 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.08 | 117 | 512993 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 256528 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 184869 | 50.61 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.22% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 210855 | 52.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 104.00% | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 613113 | 50.40 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.80% | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 224494 | 51.13 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.26% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 1.95 | 45 | 4664 | 142.74 | ug/L | 97 |
| 3) tertiary butyl alcohol | 2.49 | 59 | 3114 | 5.71 | ug/L | 62 |
| 4) 1,4-dioxane | 4.38 | 88 | 871 | 18.91 | ug/L | 83 |
| 6) chlorodifluoromethane | 1.26 | 51 | 3646 | 1.14 | ug/L | 99 |
| 7) dichlorodifluoromethane | 1.24 | 85 | 3550 | 1.12 | ug/L | 96 |
| 8) chloromethane | 1.37 | 50 | 3918 | 1.20 | ug/L | 98 |
| 9) vinyl chloride | 1.44 | 62 | 3682 | 1.04 | ug/L | 96 |
| 10) bromomethane | 1.64 | 96 | 466 | 0.84 | ug/L | 87 |
| 11) chloroethane | 1.71 | 64 | 1814 | 1.27 | ug/L | 91 |
| 12) trichlorofluoromethane | 1.86 | 101 | 4948 | 1.02 | ug/L | 98 |
| 14) ethyl ether | 2.02 | 74 | 1225 | 1.05 | ug/L | 91 |
| 15) acrolein | 2.10 | 56 | 757 | 1.10 | ug/L | 86 |
| 16) 1,1-dichloroethene | 2.17 | 96 | 2187 | 0.97 | ug/L | 92 |
| 17) freon 113 | 2.17 | 101 | 2696 | 1.00 | ug/L | 94 |
| 18) acetone | 2.19 | 58 | 1679 | 4.66 | ug/L | 96 |
| 19) acetonitrile | 2.35 | 41 | 6079 | 12.44 | ug/L | 92 |
| 21) carbon disulfide | 2.32 | 76 | 5788 | 1.02 | ug/L | 95 |
| 22) methylene chloride | 2.46 | 84 | 2457 | 1.16 | ug/L | 83 |
| 24) methyl tert butyl ether | 2.61 | 73 | 6986 | 1.09 | ug/L | 94 |
| 25) acrylonitrile | 2.59 | 53 | 1540 | 1.06 | ug/L | 85 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 2485 | 1.05 | ug/L | 95 |
| 27) hexane | 2.78 | 57 | 3881 | 1.05 | ug/L | 97 |
| 28) di-isopropyl ether | 2.88 | 45 | 8429 | 1.05 | ug/L | 96 |
| 29) 2-butanone | 3.20 | 72 | 1800 | 4.10 | ug/L # | 84 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 4583 | 1.11 | ug/L | 96 |
| 31) chloroprene | 2.93 | 53 | 4101 | 1.01 | ug/L | 93 |
| 32) vinyl acetate | 2.86 | 86 | 417 | 0.82 | ug/L # | 56 |
| 33) ethyl tert-butyl ether | 3.10 | 59 | 7397 | 1.02 | ug/L | 94 |
| 34) ethyl acetate | 3.21 | 45 | 643 | 0.97 | ug/L | 75 |
| 35) 2,2-dichloropropane | 3.23 | 77 | 3586 | 1.06 | ug/L | 94 |
| 36) cis-1,2-dichloroethene | 3.22 | 96 | 2784 | 1.09 | ug/L | 91 |
| 37) methyl acrylate | 3.25 | 55 | 4052 | 1.00 | ug/L | 96 |
| 38) propionitrile | 3.24 | 54 | 6572 | 11.11 | ug/L | 76 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200552.D
Acq On : 28 Sep 2022 10:23 pm
Operator : PrashanS
Sample : IC8636-1
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 29 13:54:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 39) tert-butyl formate | 3.43 | 59 | 1575 | 0.94 ug/L | # | 82 |
| 40) bromochloromethane | 3.36 | 128 | 1361 | 1.07 ug/L | # | 77 |
| 42) chloroform | 3.42 | 83 | 4791 | 1.17 ug/L | | 91 |
| 44) methacrylonitrile | 3.34 | 67 | 1206 | 0.93 ug/L | | 87 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 4073 | 1.00 ug/L | # | 1 |
| 46) cyclohexane | 3.58 | 84 | 4058 | 1.10 ug/L | | 97 |
| 47) tert amyl alcohol | 3.72 | 55 | 1209 | 5.78 ug/L | # | 71 |
| 48) 1,1-dichloropropene | 3.63 | 75 | 3379 | 1.00 ug/L | | 95 |
| 49) isobutyl alcohol | 3.82 | 42 | 580 | 11.68 ug/L | # | 49 |
| 50) carbon tetrachloride | 3.63 | 117 | 3505 | 0.94 ug/L | | 97 |
| 51) isopropyl acetate | 3.74 | 87 | 561 | 0.88 ug/L | # | 54 |
| 54) iso-octane | 3.81 | 57 | 7909 | 1.06 ug/L | | 96 |
| 55) epichlorohydrin | 4.72 | 57 | 2068 | 5.00 ug/L | | 85 |
| 56) n-butyl alcohol | 4.06 | 56 | 6135 | 44.72 ug/L | | 83 |
| 57) benzene | 3.76 | 78 | 9747 | 1.09 ug/L | | 95 |
| 58) tert-amyl methyl ether | 3.81 | 73 | 6424 | 1.00 ug/L | | 94 |
| 59) heptane | 3.92 | 57 | 1538 | 1.15 ug/L | # | 80 |
| 60) 1,2-dichloroethane | 3.78 | 62 | 4269 | 1.30 ug/L | | 93 |
| 61) trichloroethene | 4.17 | 130 | 3105 | 1.06 ug/L | | 95 |
| 62) ethyl acrylate | 4.19 | 55 | 3833 | 0.96 ug/L | | 96 |
| 63) 2-nitropropane | 4.65 | 41 | 933 | 0.94 ug/L | | 83 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 8184 | 4.78 ug/L | | 98 |
| 65) methyl methacrylate | 4.35 | 100 | 782 | 0.98 ug/L | # | 60 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 915 | 0.98 ug/L | # | 77 |
| 67) dibromomethane | 4.40 | 93 | 1772 | 1.17 ug/L | | 86 |
| 68) methylcyclohexane | 4.33 | 83 | 3821 | 0.96 ug/L | | 97 |
| 69) bromodichloromethane | 4.50 | 83 | 2704 | 0.95 ug/L | | 92 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 3081 | 0.91 ug/L | | 98 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 5323 | 3.97 ug/L | | 98 |
| 72) 3-methyl-1-butanol | 4.92 | 70 | 1663 | 14.78 ug/L | | 97 |
| 75) toluene | 5.05 | 92 | 5985 | 1.06 ug/L | | 98 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 2673 | 0.86 ug/L | | 91 |
| 77) ethyl methacrylate | 5.23 | 69 | 2947 | 0.97 ug/L | | 90 |
| 78) 1,1,2-trichloroethane | 5.35 | 83 | 1903 | 1.07 ug/L | | 93 |
| 79) tetrachloroethene | 5.42 | 164 | 2239 | 0.97 ug/L | | 89 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 3475 | 1.05 ug/L | | 99 |
| 81) 2-hexanone | 5.49 | 58 | 5707 | 4.10 ug/L | | 98 |
| 82) butyl acetate | 5.57 | 56 | 2118 | 1.11 ug/L | | 88 |
| 83) dibromochloromethane | 5.63 | 129 | 2235 | 0.88 ug/L | | 95 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 2293 | 0.93 ug/L | | 100 |
| 85) n-butyl ether | 6.15 | 57 | 9486 | 1.00 ug/L | | 97 |
| 86) chlorobenzene | 6.10 | 112 | 7209 | 1.13 ug/L | | 98 |
| 87) 1,1,1,2-tetrachloroethane | 6.16 | 131 | 2101 | 0.87 ug/L | | 98 |
| 88) ethylbenzene | 6.17 | 91 | 11089 | 1.03 ug/L | | 98 |
| 89) m,p-xylene | 6.27 | 106 | 8959 | 2.08 ug/L | | 94 |
| 90) o-xylene | 6.58 | 91 | 8538 | 1.04 ug/L | | 92 |
| 91) styrene | 6.59 | 104 | 7026 | 1.00 ug/L | | 92 |
| 92) butyl acrylate | 6.51 | 55 | 4700 | 0.92 ug/L | | 96 |
| 93) n-amyl acetate | 6.69 | 70 | 1605 | 0.94 ug/L | # | 61 |
| 94) bromoform | 6.74 | 173 | 1231 | 0.70 ug/L | | 80 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200552.D
Acq On : 28 Sep 2022 10:23 pm
Operator : PrashanS
Sample : IC8636-1
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 29 13:54:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

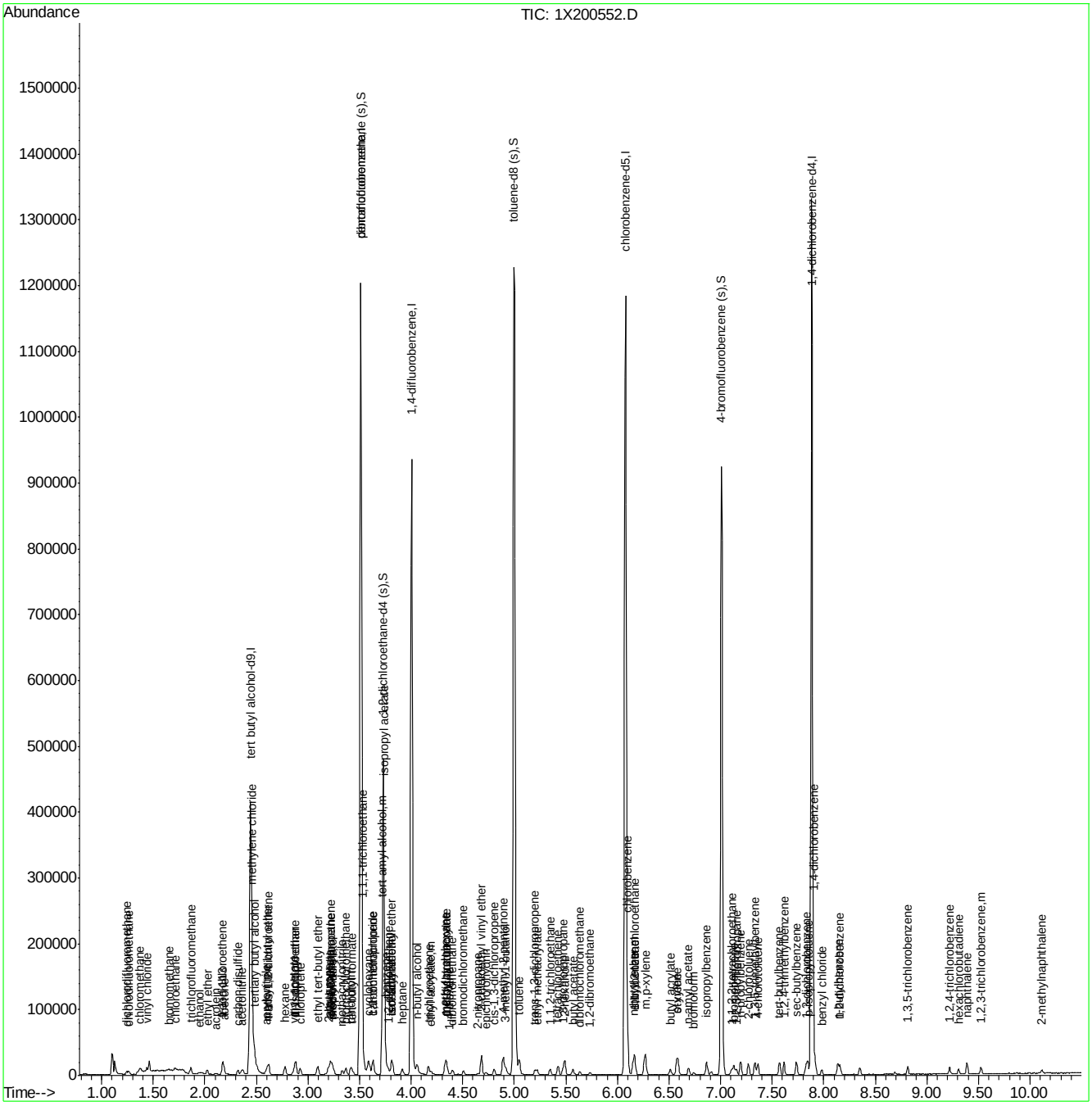
| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 95) isopropylbenzene | 6.86 | 105 | 10985 | 1.01 ug/L | 97 |
| 99) bromobenzene | 7.13 | 156 | 3093 | 1.08 ug/L | 96 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 2962 | 0.99 ug/L | 89 |
| 102) 1,2,3-trichloropropane | 7.16 | 110 | 984 | 1.01 ug/L | 91 |
| 103) n-propylbenzene | 7.19 | 91 | 12072 | 1.02 ug/L | 98 |
| 104) 2-chlorotoluene | 7.27 | 126 | 2820 | 1.07 ug/L | 98 |
| 105) 4-chlorotoluene | 7.36 | 91 | 7640 | 1.11 ug/L | 97 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 8051 | 1.02 ug/L | 96 |
| 107) tert-butylbenzene | 7.57 | 119 | 7714 | 1.02 ug/L | 93 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 8077 | 1.03 ug/L | 98 |
| 109) sec-butylbenzene | 7.73 | 105 | 10593 | 1.00 ug/L | 98 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 5259 | 1.02 ug/L | 99 |
| 111) p-isopropyltoluene | 7.85 | 119 | 8711 | 0.97 ug/L | 97 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 5598 | 1.07 ug/L | 97 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 4916 | 1.01 ug/L | 93 |
| 114) benzyl chloride | 7.98 | 91 | 3601 | 0.74 ug/L | 91 |
| 115) n-butylbenzene | 8.14 | 92 | 3913 | 0.98 ug/L | 86 |
| 117) 1,3,5-trichlorobenzene | 8.82 | 180 | 3062 | 0.98 ug/L | 86 |
| 118) hexachlorobutadiene | 9.31 | 225 | 1198 | 1.08 ug/L | 87 |
| 119) naphthalene | 9.39 | 128 | 10192 | 1.02 ug/L | 96 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 2710 | 1.00 ug/L | 90 |
| 121) 1,2,3-trichlorobenzene | 9.53 | 180 | 2548 | 0.96 ug/L | 96 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 2302 | 0.43 ug/L | 94 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200552.D
Acq On : 28 Sep 2022 10:23 pm
Operator : PrashanS
Sample : IC8636-1
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 29 13:54:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200554.D
Acq On : 28 Sep 2022 11:00 pm
Operator : PrashanS
Sample : IC8636-2
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 29 13:57:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 361361 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 388246 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 544910 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.08 | 117 | 515236 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 257938 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 185461 | 50.87 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.74% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 213669 | 52.75 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 105.50% | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 617059 | 50.50 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.00% | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 225374 | 51.05 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.10% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 1.95 | 45 | 8009 | 244.36 | ug/L | 99 |
| 3) tertiary butyl alcohol | 2.49 | 59 | 5662 | 10.35 | ug/L | 72 |
| 4) 1,4-dioxane | 4.38 | 88 | 2163 | 46.81 | ug/L | 81 |
| 6) chlorodifluoromethane | 1.26 | 51 | 6911 | 2.16 | ug/L | 96 |
| 7) dichlorodifluoromethane | 1.24 | 85 | 6215 | 1.97 | ug/L | 99 |
| 8) chloromethane | 1.37 | 50 | 6841 | 2.10 | ug/L | 91 |
| 9) vinyl chloride | 1.44 | 62 | 6801 | 1.93 | ug/L | 97 |
| 10) bromomethane | 1.64 | 96 | 884 | 1.60 | ug/L | 91 |
| 11) chloroethane | 1.71 | 64 | 3120 | 2.18 | ug/L | 88 |
| 12) trichlorofluoromethane | 1.86 | 101 | 8970 | 1.85 | ug/L | 97 |
| 14) ethyl ether | 2.02 | 74 | 2307 | 1.97 | ug/L | 95 |
| 15) acrolein | 2.11 | 56 | 1288 | 1.88 | ug/L | 95 |
| 16) 1,1-dichloroethene | 2.17 | 96 | 4484 | 2.00 | ug/L | 87 |
| 17) freon 113 | 2.17 | 101 | 5555 | 2.06 | ug/L | 93 |
| 18) acetone | 2.19 | 58 | 3101 | 8.62 | ug/L # | 78 |
| 19) acetonitrile | 2.35 | 41 | 11025 | 22.60 | ug/L | 95 |
| 20) iodomethane | 2.27 | 142 | 505 | 0.33 | ug/L | 89 |
| 21) carbon disulfide | 2.32 | 76 | 10478 | 1.85 | ug/L | 99 |
| 22) methylene chloride | 2.46 | 84 | 4242 | 2.01 | ug/L | 97 |
| 23) methyl acetate | 2.36 | 43 | 6758 | 2.20 | ug/L | 98 |
| 24) methyl tert butyl ether | 2.61 | 73 | 12416 | 1.93 | ug/L | 98 |
| 25) acrylonitrile | 2.59 | 53 | 2808 | 1.94 | ug/L | 95 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 4856 | 2.06 | ug/L | 85 |
| 27) hexane | 2.78 | 57 | 7715 | 2.10 | ug/L | 97 |
| 28) di-isopropyl ether | 2.88 | 45 | 15516 | 1.94 | ug/L | 96 |
| 29) 2-butanone | 3.20 | 72 | 3238 | 7.40 | ug/L | 96 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 8289 | 2.01 | ug/L | 98 |
| 31) chloroprene | 2.93 | 53 | 7931 | 1.95 | ug/L | 95 |
| 32) vinyl acetate | 2.86 | 86 | 837 | 1.65 | ug/L # | 92 |
| 33) ethyl tert-butyl ether | 3.10 | 59 | 13917 | 1.92 | ug/L | 99 |
| 34) ethyl acetate | 3.21 | 45 | 1164 | 1.76 | ug/L | 97 |
| 35) 2,2-dichloropropane | 3.23 | 77 | 6804 | 2.01 | ug/L | 93 |
| 36) cis-1,2-dichloroethene | 3.22 | 96 | 5021 | 1.96 | ug/L | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200554.D
Acq On : 28 Sep 2022 11:00 pm
Operator : PrashanS
Sample : IC8636-2
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 29 13:57:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 37) methyl acrylate | 3.25 | 55 | 7758 | 1.92 | ug/L | | 96 |
| 38) propionitrile | 3.23 | 54 | 12140 | 20.57 | ug/L | # | 59 |
| 39) tert-butyl formate | 3.43 | 59 | 2847 | 1.70 | ug/L | | 85 |
| 40) bromochloromethane | 3.36 | 128 | 2617 | 2.05 | ug/L | | 95 |
| 41) tetrahydrofuran | 3.37 | 42 | 3056 | 2.34 | ug/L | | 82 |
| 42) chloroform | 3.42 | 83 | 8640 | 2.12 | ug/L | | 95 |
| 44) methacrylonitrile | 3.33 | 67 | 2278 | 1.76 | ug/L | | 90 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 8009 | 1.96 | ug/L | # | 37 |
| 46) cyclohexane | 3.58 | 84 | 7441 | 2.02 | ug/L | | 88 |
| 47) tert amyl alcohol | 3.72 | 55 | 2190 | 10.50 | ug/L | | 85 |
| 48) 1,1-dichloropropene | 3.62 | 75 | 6399 | 1.90 | ug/L | | 98 |
| 49) isobutyl alcohol | 3.81 | 42 | 1200 | 24.22 | ug/L | # | 62 |
| 50) carbon tetrachloride | 3.64 | 117 | 6691 | 1.80 | ug/L | | 95 |
| 51) isopropyl acetate | 3.74 | 87 | 1014 | 1.60 | ug/L | # | 71 |
| 54) iso-octane | 3.81 | 57 | 15091 | 2.02 | ug/L | | 98 |
| 55) epichlorohydrin | 4.72 | 57 | 3868 | 9.36 | ug/L | | 90 |
| 56) n-butyl alcohol | 4.06 | 56 | 12152 | 88.67 | ug/L | | 92 |
| 57) benzene | 3.75 | 78 | 18597 | 2.08 | ug/L | | 99 |
| 58) tert-amyl methyl ether | 3.82 | 73 | 12064 | 1.88 | ug/L | | 97 |
| 59) heptane | 3.91 | 57 | 2883 | 2.17 | ug/L | | 94 |
| 60) 1,2-dichloroethane | 3.78 | 62 | 7843 | 2.39 | ug/L | | 97 |
| 61) trichloroethene | 4.17 | 130 | 5562 | 1.91 | ug/L | | 97 |
| 62) ethyl acrylate | 4.19 | 55 | 7475 | 1.87 | ug/L | | 96 |
| 63) 2-nitropropane | 4.65 | 41 | 1804 | 1.82 | ug/L | | 93 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 15580 | 9.11 | ug/L | | 99 |
| 65) methyl methacrylate | 4.34 | 100 | 1399 | 1.76 | ug/L | # | 86 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 1767 | 1.89 | ug/L | # | 79 |
| 67) dibromomethane | 4.40 | 93 | 3040 | 2.00 | ug/L | | 92 |
| 68) methylcyclohexane | 4.33 | 83 | 7899 | 1.99 | ug/L | | 94 |
| 69) bromodichloromethane | 4.51 | 83 | 4913 | 1.73 | ug/L | | 98 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 5750 | 1.70 | ug/L | | 97 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 10181 | 7.60 | ug/L | | 91 |
| 72) 3-methyl-1-butanol | 4.91 | 70 | 3532 | 31.42 | ug/L | | 96 |
| 75) toluene | 5.04 | 92 | 11426 | 2.02 | ug/L | | 97 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 5058 | 1.61 | ug/L | | 96 |
| 77) ethyl methacrylate | 5.22 | 69 | 5717 | 1.88 | ug/L | | 95 |
| 78) 1,1,2-trichloroethane | 5.35 | 83 | 3299 | 1.85 | ug/L | | 91 |
| 79) tetrachloroethene | 5.42 | 164 | 4441 | 1.91 | ug/L | | 88 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 6378 | 1.92 | ug/L | | 97 |
| 81) 2-hexanone | 5.49 | 58 | 10883 | 7.79 | ug/L | | 98 |
| 82) butyl acetate | 5.57 | 56 | 3694 | 1.92 | ug/L | | 91 |
| 83) dibromochloromethane | 5.63 | 129 | 3880 | 1.52 | ug/L | | 93 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 4565 | 1.85 | ug/L | | 98 |
| 85) n-butyl ether | 6.15 | 57 | 18200 | 1.91 | ug/L | | 99 |
| 86) chlorobenzene | 6.10 | 112 | 13105 | 2.04 | ug/L | | 97 |
| 87) 1,1,1,2-tetrachloroethane | 6.16 | 131 | 3798 | 1.56 | ug/L | | 95 |
| 88) ethylbenzene | 6.17 | 91 | 21769 | 2.02 | ug/L | | 98 |
| 89) m,p-xylene | 6.27 | 106 | 17182 | 3.98 | ug/L | | 99 |
| 90) o-xylene | 6.57 | 91 | 16550 | 2.01 | ug/L | | 90 |
| 91) styrene | 6.59 | 104 | 13238 | 1.88 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200554.D
Acq On : 28 Sep 2022 11:00 pm
Operator : PrashanS
Sample : IC8636-2
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 29 13:57:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

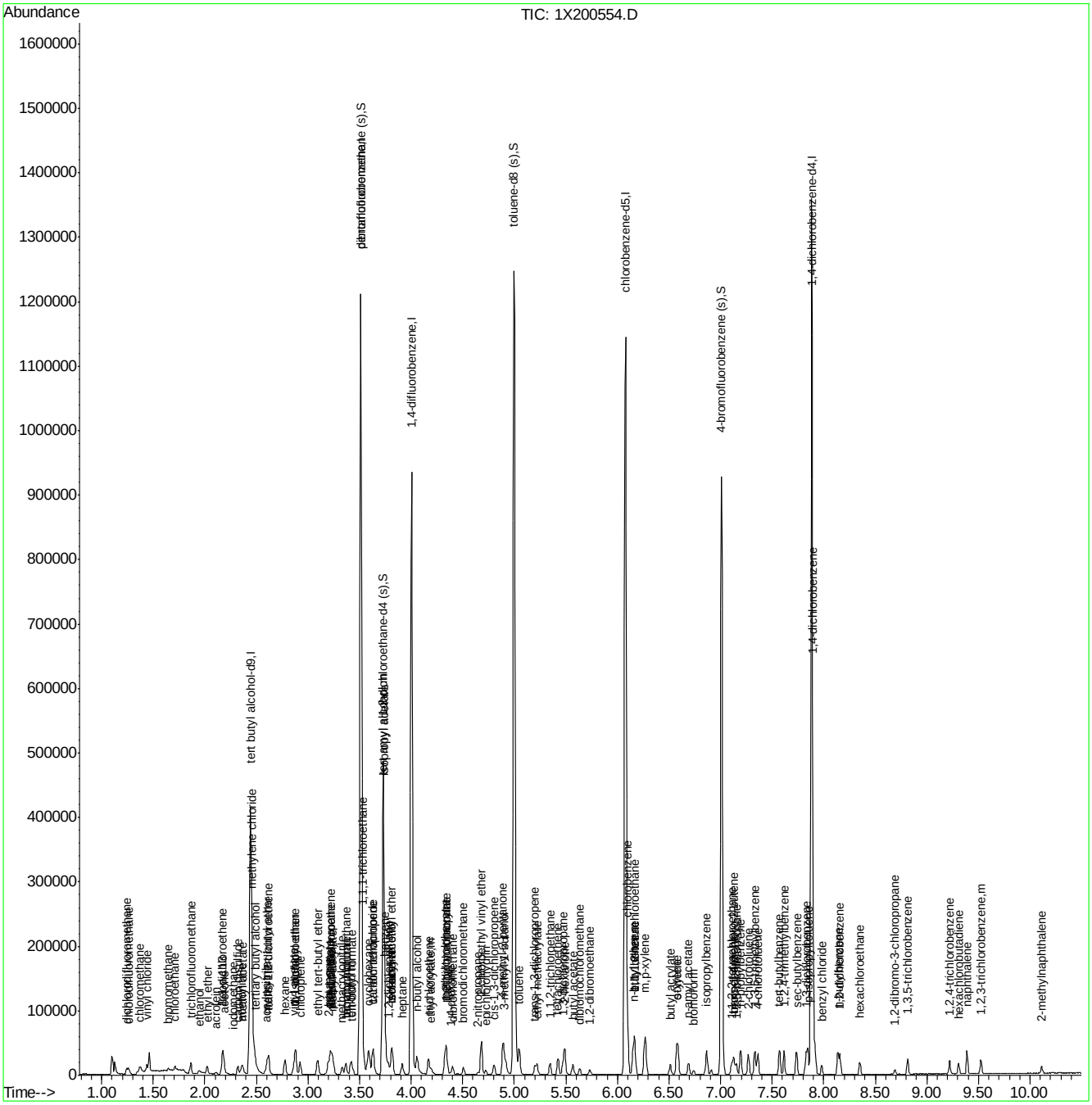
| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 92) butyl acrylate | 6.51 | 55 | 9022 | 1.77 | ug/L | | 95 |
| 93) n-amyl acetate | 6.69 | 70 | 3011 | 1.76 | ug/L | | 96 |
| 94) bromoform | 6.74 | 173 | 2454 | 1.38 | ug/L | | 97 |
| 95) isopropylbenzene | 6.86 | 105 | 21057 | 1.93 | ug/L | | 99 |
| 99) bromobenzene | 7.13 | 156 | 5641 | 1.95 | ug/L | | 93 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 5711 | 1.89 | ug/L | | 99 |
| 101) trans-1,4-dichloro-2-buten | 7.14 | 53 | 1487 | 1.67 | ug/L | | 87 |
| 102) 1,2,3-trichloropropane | 7.15 | 110 | 1954 | 2.00 | ug/L | | 90 |
| 103) n-propylbenzene | 7.19 | 91 | 22476 | 1.89 | ug/L | | 97 |
| 104) 2-chlorotoluene | 7.27 | 126 | 5495 | 2.07 | ug/L | | 89 |
| 105) 4-chlorotoluene | 7.36 | 91 | 13689 | 1.98 | ug/L | | 98 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 14857 | 1.87 | ug/L | | 96 |
| 107) tert-butylbenzene | 7.57 | 119 | 15210 | 2.00 | ug/L | | 96 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 15210 | 1.93 | ug/L | | 98 |
| 109) sec-butylbenzene | 7.74 | 105 | 19800 | 1.86 | ug/L | | 98 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 10211 | 1.97 | ug/L | | 99 |
| 111) p-isopropyltoluene | 7.85 | 119 | 16810 | 1.86 | ug/L | | 99 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 10256 | 1.95 | ug/L | | 88 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 9427 | 1.92 | ug/L | | 97 |
| 114) benzyl chloride | 7.98 | 91 | 6927 | 1.42 | ug/L | | 96 |
| 115) n-butylbenzene | 8.13 | 92 | 7484 | 1.87 | ug/L | | 98 |
| 116) 1,2-dibromo-3-chloropropan | 8.69 | 157 | 1490 | 1.58 | ug/L | | 92 |
| 117) 1,3,5-trichlorobenzene | 8.81 | 180 | 5835 | 1.85 | ug/L | | 98 |
| 118) hexachlorobutadiene | 9.31 | 225 | 2095 | 1.88 | ug/L | | 94 |
| 119) naphthalene | 9.39 | 128 | 18807 | 1.88 | ug/L | | 98 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 5154 | 1.89 | ug/L | | 89 |
| 121) 1,2,3-trichlorobenzene | 9.52 | 180 | 4950 | 1.85 | ug/L | | 97 |
| 122) hexachloroethane | 8.35 | 201 | 1496 | 1.34 | ug/L | # | 55 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 4196 | 0.77 | ug/L | | 90 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200554.D
Acq On : 28 Sep 2022 11:00 pm
Operator : PrashanS
Sample : IC8636-2
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 29 13:57:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration




M1X8636.M Thu Sep 29 16:09:21 2022 GCMSX Page: 4

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200556.D
Acq On : 28 Sep 2022 11:36 pm
Operator : PrashanS
Sample : IC8636-4
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 29 08:35:05 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 356575 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 386225 | 50.00 | ug/L | | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 547071 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 6.08 | 117 | 514026 | 50.00 | ug/L | | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 258718 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 184657 | 50.91 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.82% | | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 211847 | 52.09 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 104.18% | | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 611709 | 50.18 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.36% | | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 226560 | 51.16 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.32% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.95 | 45 | 14520 | 448.96 | ug/L | | 100 |
| 3) tertiary butyl alcohol | 2.49 | 59 | 10520 | 19.49 | ug/L | | 90 |
| 4) 1,4-dioxane | 4.38 | 88 | 4351 | 95.42 | ug/L | | 87 |
| 6) chlorodifluoromethane | 1.26 | 51 | 13170 | 4.14 | ug/L | | 97 |
| 7) dichlorodifluoromethane | 1.24 | 85 | 12939 | 4.13 | ug/L | | 98 |
| 8) chloromethane | 1.37 | 50 | 13018 | 4.02 | ug/L | | 98 |
| 9) vinyl chloride | 1.44 | 62 | 13864 | 3.95 | ug/L | | 96 |
| 10) bromomethane | 1.64 | 96 | 1849 | 3.37 | ug/L | | 95 |
| 11) chloroethane | 1.71 | 64 | 6588 | 4.63 | ug/L | | 99 |
| 12) trichlorofluoromethane | 1.86 | 101 | 18085 | 3.76 | ug/L | | 98 |
| 13) 1,3-butadiene | 1.46 | 54 | 12160 | 4.41 | ug/L | | 99 |
| 14) ethyl ether | 2.02 | 74 | 4743 | 4.08 | ug/L | | 89 |
| 15) acrolein | 2.11 | 56 | 2210 | 3.24 | ug/L | | 76 |
| 16) 1,1-dichloroethene | 2.18 | 96 | 8594 | 3.85 | ug/L | | 96 |
| 17) freon 113 | 2.17 | 101 | 10569 | 3.94 | ug/L | | 97 |
| 18) acetone | 2.19 | 58 | 5669 | 15.83 | ug/L | | 98 |
| 19) acetonitrile | 2.35 | 41 | 21216 | 43.71 | ug/L | | 97 |
| 20) iodomethane | 2.27 | 142 | 1282 | 0.85 | ug/L | | 98 |
| 21) carbon disulfide | 2.32 | 76 | 20488 | 3.64 | ug/L | | 99 |
| 22) methylene chloride | 2.46 | 84 | 8334 | 3.97 | ug/L | | 85 |
| 23) methyl acetate | 2.36 | 43 | 12305 | 4.02 | ug/L | | 99 |
| 24) methyl tert butyl ether | 2.61 | 73 | 24238 | 3.80 | ug/L | | 93 |
| 25) acrylonitrile | 2.59 | 53 | 5334 | 3.70 | ug/L | | 93 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 9131 | 3.89 | ug/L | | 95 |
| 27) hexane | 2.78 | 57 | 14193 | 3.88 | ug/L | | 97 |
| 28) di-isopropyl ether | 2.88 | 45 | 30346 | 3.82 | ug/L | | 97 |
| 29) 2-butanone | 3.20 | 72 | 6332 | 14.54 | ug/L | # | 86 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 16372 | 4.00 | ug/L | | 99 |
| 31) chloroprene | 2.93 | 53 | 15001 | 3.72 | ug/L | | 96 |
| 32) vinyl acetate | 2.86 | 86 | 1654 | 3.28 | ug/L | # | 80 |
| 33) ethyl tert-butyl ether | 3.10 | 59 | 26838 | 3.72 | ug/L | | 98 |
| 34) ethyl acetate | 3.21 | 45 | 2199 | 3.34 | ug/L | | 89 |
| 35) 2,2-dichloropropane | 3.23 | 77 | 12683 | 3.78 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200556.D
Acq On : 28 Sep 2022 11:36 pm
Operator : PrashanS
Sample : IC8636-4
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 29 08:35:05 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 3.22 | 96 | 9791 | 3.84 | ug/L | | 95 |
| 37) methyl acrylate | 3.25 | 55 | 14610 | 3.64 | ug/L | | 97 |
| 38) propionitrile | 3.24 | 54 | 22999 | 39.16 | ug/L | | 82 |
| 39) tert-butyl formate | 3.43 | 59 | 5435 | 3.26 | ug/L | | 91 |
| 40) bromochloromethane | 3.36 | 128 | 5152 | 4.06 | ug/L | | 95 |
| 41) tetrahydrofuran | 3.37 | 42 | 5163 | 3.98 | ug/L | | 92 |
| 42) chloroform | 3.42 | 83 | 16373 | 4.04 | ug/L | | 97 |
| 44) methacrylonitrile | 3.33 | 67 | 4620 | 3.60 | ug/L | | 98 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 15578 | 3.84 | ug/L | # | 69 |
| 46) cyclohexane | 3.58 | 84 | 14348 | 3.91 | ug/L | | 89 |
| 47) tert amyl alcohol | 3.72 | 55 | 4239 | 20.42 | ug/L | | 89 |
| 48) 1,1-dichloropropene | 3.62 | 75 | 12836 | 3.82 | ug/L | | 96 |
| 49) isobutyl alcohol | 3.82 | 42 | 2182 | 44.27 | ug/L | # | 72 |
| 50) carbon tetrachloride | 3.63 | 117 | 13177 | 3.56 | ug/L | | 100 |
| 51) isopropyl acetate | 3.74 | 87 | 2095 | 3.31 | ug/L | # | 78 |
| 54) iso-octane | 3.82 | 57 | 28598 | 3.81 | ug/L | | 99 |
| 55) epichlorohydrin | 4.72 | 57 | 7394 | 17.82 | ug/L | | 92 |
| 56) n-butyl alcohol | 4.06 | 56 | 23448 | 170.43 | ug/L | | 96 |
| 57) benzene | 3.76 | 78 | 34974 | 3.90 | ug/L | | 97 |
| 58) tert-amyl methyl ether | 3.82 | 73 | 22973 | 3.57 | ug/L | | 95 |
| 59) heptane | 3.91 | 57 | 5353 | 4.00 | ug/L | | 93 |
| 60) 1,2-dichloroethane | 3.78 | 62 | 13694 | 4.15 | ug/L | | 97 |
| 61) trichloroethene | 4.17 | 130 | 11044 | 3.78 | ug/L | | 97 |
| 62) ethyl acrylate | 4.19 | 55 | 14558 | 3.64 | ug/L | | 99 |
| 63) 2-nitropropane | 4.65 | 41 | 3145 | 3.16 | ug/L | | 93 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 30617 | 17.83 | ug/L | | 98 |
| 65) methyl methacrylate | 4.35 | 100 | 2699 | 3.37 | ug/L | # | 70 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 3509 | 3.74 | ug/L | | 93 |
| 67) dibromomethane | 4.40 | 93 | 6029 | 3.96 | ug/L | | 93 |
| 68) methylcyclohexane | 4.33 | 83 | 14426 | 3.62 | ug/L | | 98 |
| 69) bromodichloromethane | 4.50 | 83 | 10116 | 3.55 | ug/L | | 99 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 11635 | 3.43 | ug/L | | 97 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 19843 | 14.75 | ug/L | | 95 |
| 72) 3-methyl-1-butanol | 4.91 | 70 | 6746 | 59.78 | ug/L | | 95 |
| 75) toluene | 5.05 | 92 | 21996 | 3.89 | ug/L | | 93 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 10093 | 3.23 | ug/L | | 96 |
| 77) ethyl methacrylate | 5.22 | 69 | 10902 | 3.59 | ug/L | | 99 |
| 78) 1,1,2-trichloroethane | 5.35 | 83 | 6469 | 3.64 | ug/L | | 100 |
| 79) tetrachloroethene | 5.42 | 164 | 8611 | 3.72 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 12548 | 3.79 | ug/L | | 99 |
| 81) 2-hexanone | 5.49 | 58 | 21185 | 15.19 | ug/L | | 96 |
| 82) butyl acetate | 5.57 | 56 | 7049 | 3.67 | ug/L | | 100 |
| 83) dibromochloromethane | 5.64 | 129 | 7798 | 3.05 | ug/L | | 96 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 8653 | 3.51 | ug/L | | 100 |
| 85) n-butyl ether | 6.15 | 57 | 34486 | 3.63 | ug/L | | 97 |
| 86) chlorobenzene | 6.10 | 112 | 25242 | 3.93 | ug/L | | 98 |
| 87) 1,1,1,2-tetrachloroethane | 6.16 | 131 | 7901 | 3.25 | ug/L | | 93 |
| 88) ethylbenzene | 6.17 | 91 | 41351 | 3.84 | ug/L | | 97 |
| 89) m,p-xylene | 6.27 | 106 | 32792 | 7.62 | ug/L | | 98 |
| 90) o-xylene | 6.58 | 91 | 31636 | 3.86 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200556.D
Acq On : 28 Sep 2022 11:36 pm
Operator : PrashanS
Sample : IC8636-4
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 29 08:35:05 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

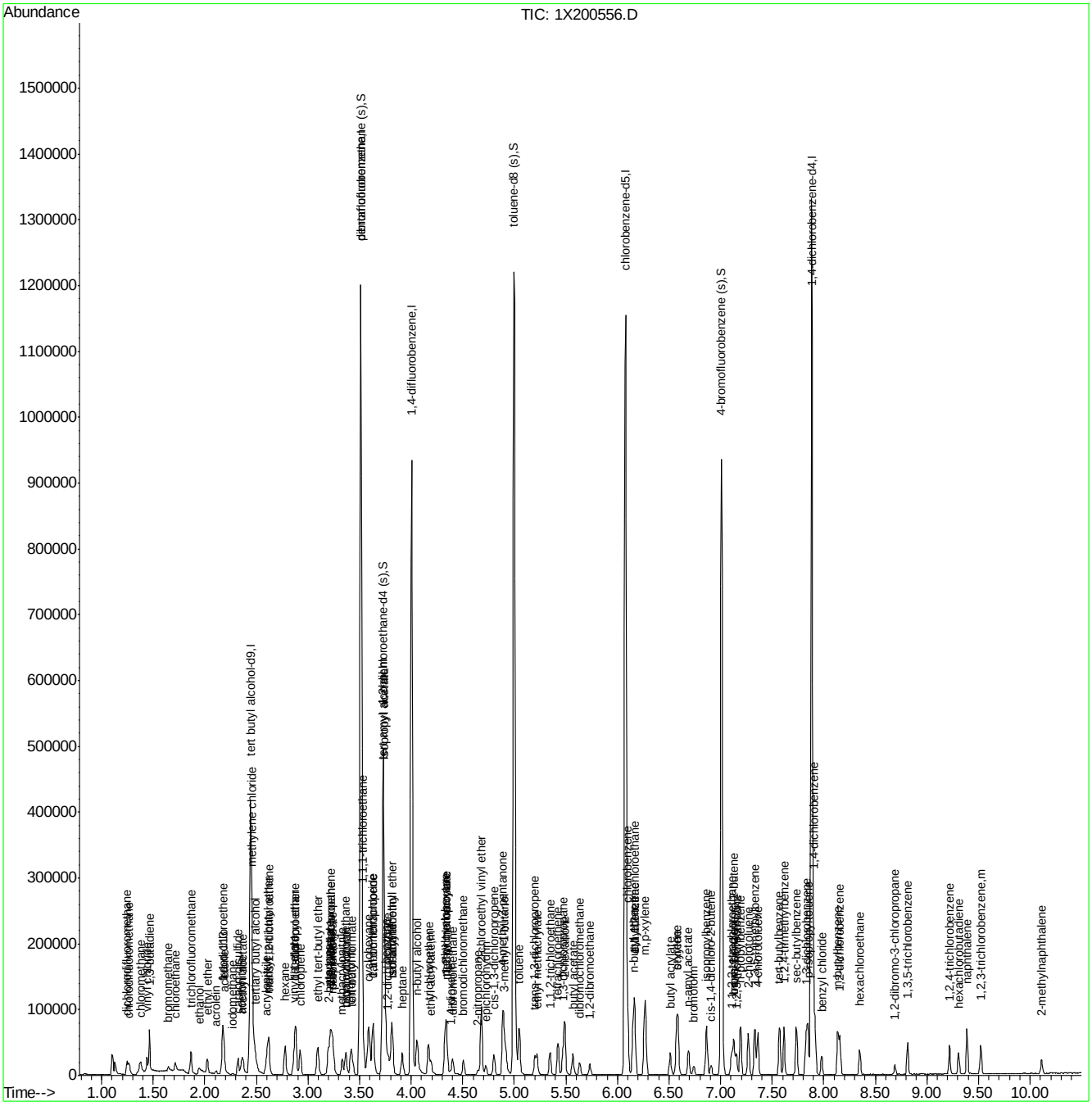
| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 91) styrene | 6.59 | 104 | 25665 | 3.65 | ug/L | | 100 |
| 92) butyl acrylate | 6.51 | 55 | 17390 | 3.41 | ug/L | | 99 |
| 93) n-amyl acetate | 6.69 | 70 | 5766 | 3.39 | ug/L | | 97 |
| 94) bromoform | 6.74 | 173 | 4909 | 2.77 | ug/L | | 99 |
| 95) isopropylbenzene | 6.86 | 105 | 41072 | 3.78 | ug/L | | 96 |
| 96) cis-1,4-dichloro-2-butene | 6.91 | 88 | 2262 | 2.27 | ug/L | | 86 |
| 99) bromobenzene | 7.13 | 156 | 10897 | 3.76 | ug/L | | 97 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 10963 | 3.62 | ug/L | | 98 |
| 101) trans-1,4-dichloro-2-buten | 7.13 | 53 | 2773 | 3.10 | ug/L | # | 78 |
| 102) 1,2,3-trichloropropane | 7.16 | 110 | 3613 | 3.69 | ug/L | | 86 |
| 103) n-propylbenzene | 7.19 | 91 | 44570 | 3.73 | ug/L | | 98 |
| 104) 2-chlorotoluene | 7.27 | 126 | 10333 | 3.89 | ug/L | | 99 |
| 105) 4-chlorotoluene | 7.36 | 91 | 26235 | 3.78 | ug/L | | 99 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 29495 | 3.70 | ug/L | | 97 |
| 107) tert-butylbenzene | 7.57 | 119 | 28639 | 3.76 | ug/L | | 97 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 29993 | 3.80 | ug/L | | 99 |
| 109) sec-butylbenzene | 7.73 | 105 | 39652 | 3.71 | ug/L | | 98 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 19676 | 3.79 | ug/L | | 98 |
| 111) p-isopropyltoluene | 7.85 | 119 | 32636 | 3.60 | ug/L | | 99 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 20195 | 3.83 | ug/L | | 98 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 18631 | 3.78 | ug/L | | 99 |
| 114) benzyl chloride | 7.98 | 91 | 13842 | 2.83 | ug/L | | 95 |
| 115) n-butylbenzene | 8.13 | 92 | 14338 | 3.58 | ug/L | | 90 |
| 116) 1,2-dibromo-3-chloropropan | 8.69 | 157 | 2808 | 2.97 | ug/L | | 95 |
| 117) 1,3,5-trichlorobenzene | 8.81 | 180 | 11378 | 3.60 | ug/L | | 97 |
| 118) hexachlorobutadiene | 9.31 | 225 | 4017 | 3.59 | ug/L | | 89 |
| 119) naphthalene | 9.39 | 128 | 37608 | 3.74 | ug/L | | 99 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 9769 | 3.57 | ug/L | | 95 |
| 121) 1,2,3-trichlorobenzene | 9.52 | 180 | 9286 | 3.47 | ug/L | | 95 |
| 122) hexachloroethane | 8.35 | 201 | 2955 | 2.63 | ug/L | # | 72 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 8348 | 1.53 | ug/L | | 91 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200556.D
Acq On : 28 Sep 2022 11:36 pm
Operator : PrashanS
Sample : IC8636-4
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 29 08:35:05 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200558.D
Acq On : 29 Sep 2022 12:12 am
Operator : PrashanS
Sample : IC8636-8
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 29 08:35:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 368518 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 389367 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 553321 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.08 | 117 | 519620 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 262373 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 186371 | 50.97 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.94% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 213667 | 51.94 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 103.88% | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 619004 | 50.24 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.48% | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 226223 | 50.37 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.74% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 1.94 | 45 | 27228 | 814.60 | ug/L | 98 |
| 3) tertiary butyl alcohol | 2.49 | 59 | 21199 | 38.00 | ug/L | 96 |
| 4) 1,4-dioxane | 4.38 | 88 | 8957 | 190.07 | ug/L | 95 |
| 6) chlorodifluoromethane | 1.25 | 51 | 25810 | 8.04 | ug/L | 97 |
| 7) dichlorodifluoromethane | 1.24 | 85 | 25072 | 7.93 | ug/L | 99 |
| 8) chloromethane | 1.37 | 50 | 25595 | 7.84 | ug/L | 93 |
| 9) vinyl chloride | 1.43 | 62 | 26890 | 7.60 | ug/L | 100 |
| 10) bromomethane | 1.64 | 96 | 4085 | 7.39 | ug/L | 90 |
| 11) chloroethane | 1.71 | 64 | 12516 | 8.73 | ug/L | 97 |
| 12) trichlorofluoromethane | 1.86 | 101 | 36119 | 7.44 | ug/L | 99 |
| 13) 1,3-butadiene | 1.46 | 54 | 23688 | 8.52 | ug/L | 98 |
| 14) ethyl ether | 2.02 | 74 | 8900 | 7.59 | ug/L | 98 |
| 15) acrolein | 2.10 | 56 | 4964 | 7.21 | ug/L | 90 |
| 16) 1,1-dichloroethene | 2.17 | 96 | 17037 | 7.56 | ug/L | 96 |
| 17) freon 113 | 2.17 | 101 | 20686 | 7.65 | ug/L | 94 |
| 18) acetone | 2.18 | 58 | 11019 | 30.53 | ug/L | 99 |
| 19) acetonitrile | 2.35 | 41 | 40876 | 83.54 | ug/L | 99 |
| 20) iodomethane | 2.27 | 142 | 3670 | 2.42 | ug/L | 95 |
| 21) carbon disulfide | 2.32 | 76 | 40342 | 7.12 | ug/L | 99 |
| 22) methylene chloride | 2.46 | 84 | 16207 | 7.66 | ug/L | 96 |
| 23) methyl acetate | 2.36 | 43 | 23197 | 7.53 | ug/L | 98 |
| 24) methyl tert butyl ether | 2.60 | 73 | 48804 | 7.58 | ug/L | 100 |
| 25) acrylonitrile | 2.58 | 53 | 11044 | 7.61 | ug/L | 96 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 18057 | 7.63 | ug/L | 98 |
| 27) hexane | 2.78 | 57 | 27180 | 7.37 | ug/L | 99 |
| 28) di-isopropyl ether | 2.88 | 45 | 59141 | 7.38 | ug/L | 99 |
| 29) 2-butanone | 3.19 | 72 | 12439 | 28.34 | ug/L | 91 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 32229 | 7.81 | ug/L | 97 |
| 31) chloroprene | 2.92 | 53 | 29594 | 7.27 | ug/L | 96 |
| 32) vinyl acetate | 2.86 | 86 | 3630 | 7.15 | ug/L # | 86 |
| 33) ethyl tert-butyl ether | 3.09 | 59 | 53154 | 7.31 | ug/L | 98 |
| 34) ethyl acetate | 3.21 | 45 | 4637 | 6.98 | ug/L | 96 |
| 35) 2,2-dichloropropane | 3.22 | 77 | 25054 | 7.40 | ug/L | 91 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200558.D
Acq On : 29 Sep 2022 12:12 am
Operator : PrashanS
Sample : IC8636-8
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 29 08:35:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 3.21 | 96 | 19126 | 7.45 | ug/L | | 92 |
| 37) methyl acrylate | 3.24 | 55 | 30486 | 7.53 | ug/L | | 95 |
| 38) propionitrile | 3.23 | 54 | 46725 | 78.93 | ug/L | | 69 |
| 39) tert-butyl formate | 3.43 | 59 | 11208 | 6.68 | ug/L | | 94 |
| 40) bromochloromethane | 3.36 | 128 | 9669 | 7.56 | ug/L | | 96 |
| 41) tetrahydrofuran | 3.37 | 42 | 10533 | 8.06 | ug/L | | 99 |
| 42) chloroform | 3.41 | 83 | 31006 | 7.58 | ug/L | | 97 |
| 44) methacrylonitrile | 3.33 | 67 | 9826 | 7.58 | ug/L | | 95 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 30551 | 7.47 | ug/L | | 86 |
| 46) cyclohexane | 3.58 | 84 | 28196 | 7.63 | ug/L | | 99 |
| 47) tert amyl alcohol | 3.72 | 55 | 8271 | 39.52 | ug/L | | 97 |
| 48) 1,1-dichloropropene | 3.62 | 75 | 25335 | 7.49 | ug/L | | 96 |
| 49) isobutyl alcohol | 3.82 | 42 | 4257 | 85.67 | ug/L | # | 73 |
| 50) carbon tetrachloride | 3.63 | 117 | 26125 | 7.00 | ug/L | | 99 |
| 51) isopropyl acetate | 3.74 | 87 | 4349 | 6.82 | ug/L | # | 82 |
| 54) iso-octane | 3.81 | 57 | 56823 | 7.48 | ug/L | | 98 |
| 55) epichlorohydrin | 4.72 | 57 | 15028 | 35.82 | ug/L | | 96 |
| 56) n-butyl alcohol | 4.06 | 56 | 48046 | 345.27 | ug/L | | 96 |
| 57) benzene | 3.75 | 78 | 68364 | 7.53 | ug/L | | 99 |
| 58) tert-amyl methyl ether | 3.81 | 73 | 46415 | 7.13 | ug/L | | 97 |
| 59) heptane | 3.91 | 57 | 10584 | 7.83 | ug/L | | 95 |
| 60) 1,2-dichloroethane | 3.78 | 62 | 26324 | 7.89 | ug/L | | 99 |
| 61) trichloroethene | 4.17 | 130 | 21808 | 7.37 | ug/L | | 99 |
| 62) ethyl acrylate | 4.19 | 55 | 29363 | 7.25 | ug/L | | 98 |
| 63) 2-nitropropane | 4.65 | 41 | 6580 | 6.53 | ug/L | | 93 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 62202 | 35.82 | ug/L | | 99 |
| 65) methyl methacrylate | 4.34 | 100 | 5581 | 6.90 | ug/L | # | 86 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 7253 | 7.64 | ug/L | | 100 |
| 67) dibromomethane | 4.40 | 93 | 11532 | 7.49 | ug/L | | 96 |
| 68) methylcyclohexane | 4.33 | 83 | 29180 | 7.24 | ug/L | | 98 |
| 69) bromodichloromethane | 4.50 | 83 | 19625 | 6.80 | ug/L | | 100 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 22972 | 6.69 | ug/L | | 97 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 40291 | 29.61 | ug/L | | 98 |
| 72) 3-methyl-1-butanol | 4.92 | 70 | 14847 | 130.07 | ug/L | | 95 |
| 75) toluene | 5.04 | 92 | 42596 | 7.46 | ug/L | | 97 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 20851 | 6.59 | ug/L | | 97 |
| 77) ethyl methacrylate | 5.22 | 69 | 21521 | 7.01 | ug/L | | 98 |
| 78) 1,1,2-trichloroethane | 5.35 | 83 | 13087 | 7.28 | ug/L | | 94 |
| 79) tetrachloroethene | 5.42 | 164 | 17080 | 7.29 | ug/L | | 95 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 24287 | 7.26 | ug/L | | 99 |
| 81) 2-hexanone | 5.49 | 58 | 42532 | 30.17 | ug/L | | 96 |
| 82) butyl acetate | 5.57 | 56 | 14136 | 7.28 | ug/L | | 100 |
| 83) dibromochloromethane | 5.63 | 129 | 16304 | 6.31 | ug/L | | 96 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 17275 | 6.94 | ug/L | | 98 |
| 85) n-butyl ether | 6.15 | 57 | 69670 | 7.25 | ug/L | | 98 |
| 86) chlorobenzene | 6.10 | 112 | 48603 | 7.49 | ug/L | | 97 |
| 87) 1,1,1,2-tetrachloroethane | 6.16 | 131 | 16054 | 6.53 | ug/L | | 100 |
| 88) ethylbenzene | 6.17 | 91 | 81055 | 7.45 | ug/L | | 98 |
| 89) m,p-xylene | 6.27 | 106 | 64889 | 14.91 | ug/L | | 99 |
| 90) o-xylene | 6.57 | 91 | 62041 | 7.48 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200558.D
Acq On : 29 Sep 2022 12:12 am
Operator : PrashanS
Sample : IC8636-8
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 29 08:35:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

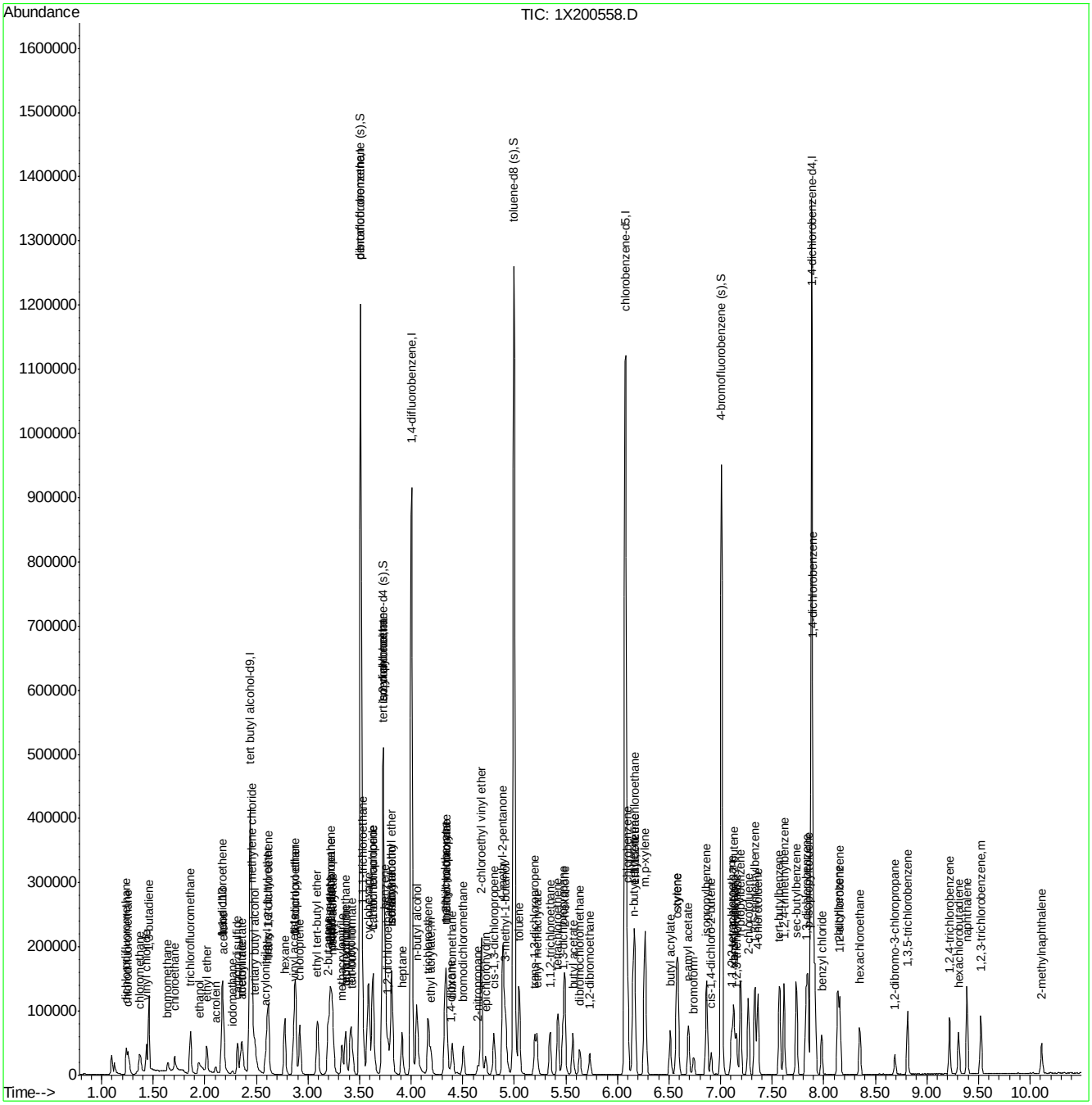
| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 91) styrene | 6.59 | 104 | 50674 | 7.14 | ug/L | | 99 |
| 92) butyl acrylate | 6.51 | 55 | 35429 | 6.88 | ug/L | | 99 |
| 93) n-amyl acetate | 6.69 | 70 | 12148 | 7.06 | ug/L | | 96 |
| 94) bromoform | 6.74 | 173 | 10215 | 5.71 | ug/L | | 98 |
| 95) isopropylbenzene | 6.86 | 105 | 80584 | 7.33 | ug/L | | 99 |
| 96) cis-1,4-dichloro-2-butene | 6.91 | 88 | 5323 | 5.30 | ug/L | | 91 |
| 99) bromobenzene | 7.13 | 156 | 21377 | 7.27 | ug/L | | 99 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 22528 | 7.33 | ug/L | | 94 |
| 101) trans-1,4-dichloro-2-buten | 7.14 | 53 | 5716 | 6.30 | ug/L | | 82 |
| 102) 1,2,3-trichloropropane | 7.15 | 110 | 7043 | 7.09 | ug/L | | 97 |
| 103) n-propylbenzene | 7.19 | 91 | 89124 | 7.36 | ug/L | | 97 |
| 104) 2-chlorotoluene | 7.27 | 126 | 20298 | 7.53 | ug/L | | 93 |
| 105) 4-chlorotoluene | 7.36 | 91 | 51898 | 7.37 | ug/L | | 98 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 58252 | 7.21 | ug/L | | 98 |
| 107) tert-butylbenzene | 7.57 | 119 | 56205 | 7.28 | ug/L | | 94 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 57982 | 7.24 | ug/L | | 99 |
| 109) sec-butylbenzene | 7.73 | 105 | 77931 | 7.20 | ug/L | | 100 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 38198 | 7.26 | ug/L | | 99 |
| 111) p-isopropyltoluene | 7.85 | 119 | 66799 | 7.26 | ug/L | | 99 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 39261 | 7.34 | ug/L | | 99 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 36337 | 7.27 | ug/L | | 97 |
| 114) benzyl chloride | 7.98 | 91 | 29605 | 5.96 | ug/L | | 96 |
| 115) n-butylbenzene | 8.13 | 92 | 28641 | 7.05 | ug/L | | 98 |
| 116) 1,2-dibromo-3-chloropropan | 8.69 | 157 | 6056 | 6.32 | ug/L | | 92 |
| 117) 1,3,5-trichlorobenzene | 8.81 | 180 | 22762 | 7.10 | ug/L | | 99 |
| 118) hexachlorobutadiene | 9.31 | 225 | 7917 | 6.98 | ug/L | | 94 |
| 119) naphthalene | 9.39 | 128 | 74972 | 7.35 | ug/L | | 99 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 19266 | 6.94 | ug/L | | 95 |
| 121) 1,2,3-trichlorobenzene | 9.52 | 180 | 18987 | 6.99 | ug/L | | 98 |
| 122) hexachloroethane | 8.35 | 201 | 6454 | 5.67 | ug/L | # | 75 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 17876 | 3.23 | ug/L | | 92 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200558.D
Acq On : 29 Sep 2022 12:12 am
Operator : PrashanS
Sample : IC8636-8
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 29 08:35:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200560.D
Acq On : 29 Sep 2022 12:48 am
Operator : PrashanS
Sample : IC8636-20
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 29 08:35:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 368620 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 395577 | 50.00 | ug/L | | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 567056 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 6.08 | 117 | 527311 | 50.00 | ug/L | | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 270734 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 187574 | 50.49 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.98% | | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 217924 | 51.70 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 103.40% | | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 628520 | 50.26 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.52% | | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 228986 | 49.42 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.84% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.94 | 45 | 67777 | 2027.18 | ug/L | | 97 |
| 3) tertiary butyl alcohol | 2.49 | 59 | 54352 | 97.41 | ug/L | | 94 |
| 4) 1,4-dioxane | 4.38 | 88 | 22787 | 483.42 | ug/L | | 92 |
| 6) chlorodifluoromethane | 1.25 | 51 | 65691 | 20.15 | ug/L | | 99 |
| 7) dichlorodifluoromethane | 1.24 | 85 | 63015 | 19.62 | ug/L | | 100 |
| 8) chloromethane | 1.37 | 50 | 63683 | 19.21 | ug/L | | 98 |
| 9) vinyl chloride | 1.43 | 62 | 69291 | 19.27 | ug/L | | 99 |
| 10) bromomethane | 1.64 | 96 | 10204 | 18.18 | ug/L | | 98 |
| 11) chloroethane | 1.71 | 64 | 29790 | 20.46 | ug/L | | 98 |
| 12) trichlorofluoromethane | 1.86 | 101 | 91700 | 18.59 | ug/L | | 98 |
| 13) 1,3-butadiene | 1.46 | 54 | 58481 | 20.71 | ug/L | | 99 |
| 14) ethyl ether | 2.02 | 74 | 23241 | 19.50 | ug/L | | 96 |
| 15) acrolein | 2.11 | 56 | 12595 | 18.00 | ug/L | | 96 |
| 16) 1,1-dichloroethene | 2.17 | 96 | 44600 | 19.49 | ug/L | | 98 |
| 17) freon 113 | 2.17 | 101 | 53654 | 19.54 | ug/L | | 97 |
| 18) acetone | 2.18 | 58 | 29183 | 79.57 | ug/L | | 99 |
| 19) acetonitrile | 2.35 | 41 | 100942 | 203.06 | ug/L | | 98 |
| 20) iodomethane | 2.27 | 142 | 16336 | 10.59 | ug/L | | 98 |
| 21) carbon disulfide | 2.32 | 76 | 110370 | 19.16 | ug/L | | 99 |
| 22) methylene chloride | 2.46 | 84 | 42884 | 19.94 | ug/L | | 95 |
| 23) methyl acetate | 2.36 | 43 | 58964 | 18.83 | ug/L | | 99 |
| 24) methyl tert butyl ether | 2.61 | 73 | 124828 | 19.09 | ug/L | | 99 |
| 25) acrylonitrile | 2.59 | 53 | 27972 | 18.96 | ug/L | | 96 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 47713 | 19.83 | ug/L | | 100 |
| 27) hexane | 2.78 | 57 | 72589 | 19.38 | ug/L | | 100 |
| 28) di-isopropyl ether | 2.88 | 45 | 158016 | 19.41 | ug/L | | 99 |
| 29) 2-butanone | 3.19 | 72 | 33614 | 75.38 | ug/L | # | 85 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 82898 | 19.77 | ug/L | | 100 |
| 31) chloroprene | 2.92 | 53 | 82319 | 19.91 | ug/L | | 99 |
| 32) vinyl acetate | 2.86 | 86 | 9182 | 17.80 | ug/L | | 98 |
| 33) ethyl tert-butyl ether | 3.09 | 59 | 141461 | 19.15 | ug/L | | 99 |
| 34) ethyl acetate | 3.21 | 45 | 11981 | 17.75 | ug/L | | 98 |
| 35) 2,2-dichloropropane | 3.22 | 77 | 66974 | 19.47 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200560.D
Acq On : 29 Sep 2022 12:48 am
Operator : PrashanS
Sample : IC8636-20
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 29 08:35:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 3.21 | 96 | 50310 | 19.29 ug/L | 91 |
| 37) methyl acrylate | 3.24 | 55 | 79182 | 19.24 ug/L | 96 |
| 38) propionitrile | 3.23 | 54 | 117522 | 195.39 ug/L | 70 |
| 39) tert-butyl formate | 3.43 | 59 | 29494 | 17.30 ug/L | 99 |
| 40) bromochloromethane | 3.36 | 128 | 25417 | 19.57 ug/L | 98 |
| 41) tetrahydrofuran | 3.37 | 42 | 25543 | 19.23 ug/L | 98 |
| 42) chloroform | 3.41 | 83 | 81055 | 19.51 ug/L | 98 |
| 44) methacrylonitrile | 3.33 | 67 | 25192 | 19.14 ug/L | 96 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 80547 | 19.37 ug/L | 96 |
| 46) cyclohexane | 3.58 | 84 | 70859 | 18.87 ug/L | 97 |
| 47) tert amyl alcohol | 3.72 | 55 | 20513 | 96.48 ug/L | 94 |
| 48) 1,1-dichloropropene | 3.62 | 75 | 67203 | 19.55 ug/L | 98 |
| 49) isobutyl alcohol | 3.81 | 42 | 9419 | 186.57 ug/L | 98 |
| 50) carbon tetrachloride | 3.63 | 117 | 71550 | 18.87 ug/L | 99 |
| 51) isopropyl acetate | 3.74 | 87 | 11777 | 18.19 ug/L # | 85 |
| 54) iso-octane | 3.81 | 57 | 149812 | 19.23 ug/L | 98 |
| 55) epichlorohydrin | 4.72 | 57 | 39819 | 92.61 ug/L | 99 |
| 56) n-butyl alcohol | 4.06 | 56 | 131516 | 922.20 ug/L | 98 |
| 57) benzene | 3.75 | 78 | 182006 | 19.56 ug/L | 99 |
| 58) tert-amyl methyl ether | 3.81 | 73 | 123317 | 18.49 ug/L | 98 |
| 59) heptane | 3.91 | 57 | 28093 | 20.28 ug/L | 98 |
| 60) 1,2-dichloroethane | 3.78 | 62 | 65750 | 19.23 ug/L | 100 |
| 61) trichloroethene | 4.17 | 130 | 59527 | 19.64 ug/L | 97 |
| 62) ethyl acrylate | 4.19 | 55 | 76470 | 18.43 ug/L | 99 |
| 63) 2-nitropropane | 4.65 | 41 | 17492 | 16.94 ug/L | 96 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 165246 | 92.85 ug/L | 100 |
| 65) methyl methacrylate | 4.34 | 100 | 15302 | 18.46 ug/L | 95 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 18688 | 19.21 ug/L | 98 |
| 67) dibromomethane | 4.40 | 93 | 30305 | 19.20 ug/L | 99 |
| 68) methylcyclohexane | 4.33 | 83 | 77613 | 18.79 ug/L | 99 |
| 69) bromodichloromethane | 4.51 | 83 | 54389 | 18.40 ug/L | 100 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 64757 | 18.40 ug/L | 96 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 104617 | 75.01 ug/L | 99 |
| 72) 3-methyl-1-butanol | 4.91 | 70 | 41434 | 354.20 ug/L | 98 |
| 75) toluene | 5.04 | 92 | 114690 | 19.79 ug/L | 96 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 58322 | 18.17 ug/L | 100 |
| 77) ethyl methacrylate | 5.22 | 69 | 58163 | 18.67 ug/L | 99 |
| 78) 1,1,2-trichloroethane | 5.34 | 83 | 33805 | 18.52 ug/L | 98 |
| 79) tetrachloroethene | 5.42 | 164 | 45141 | 18.99 ug/L | 99 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 64154 | 18.89 ug/L | 99 |
| 81) 2-hexanone | 5.49 | 58 | 109058 | 76.23 ug/L | 99 |
| 82) butyl acetate | 5.57 | 56 | 36853 | 18.71 ug/L | 98 |
| 83) dibromochloromethane | 5.63 | 129 | 45286 | 17.28 ug/L | 95 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 46866 | 18.54 ug/L | 98 |
| 85) n-butyl ether | 6.15 | 57 | 184372 | 18.90 ug/L | 100 |
| 86) chlorobenzene | 6.10 | 112 | 127304 | 19.33 ug/L | 98 |
| 87) 1,1,1,2-tetrachloroethane | 6.16 | 131 | 44767 | 17.94 ug/L | 97 |
| 88) ethylbenzene | 6.16 | 91 | 213907 | 19.36 ug/L | 100 |
| 89) m,p-xylene | 6.27 | 106 | 173069 | 39.18 ug/L | 100 |
| 90) o-xylene | 6.57 | 91 | 163878 | 19.48 ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200560.D
Acq On : 29 Sep 2022 12:48 am
Operator : PrashanS
Sample : IC8636-20
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 29 08:35:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

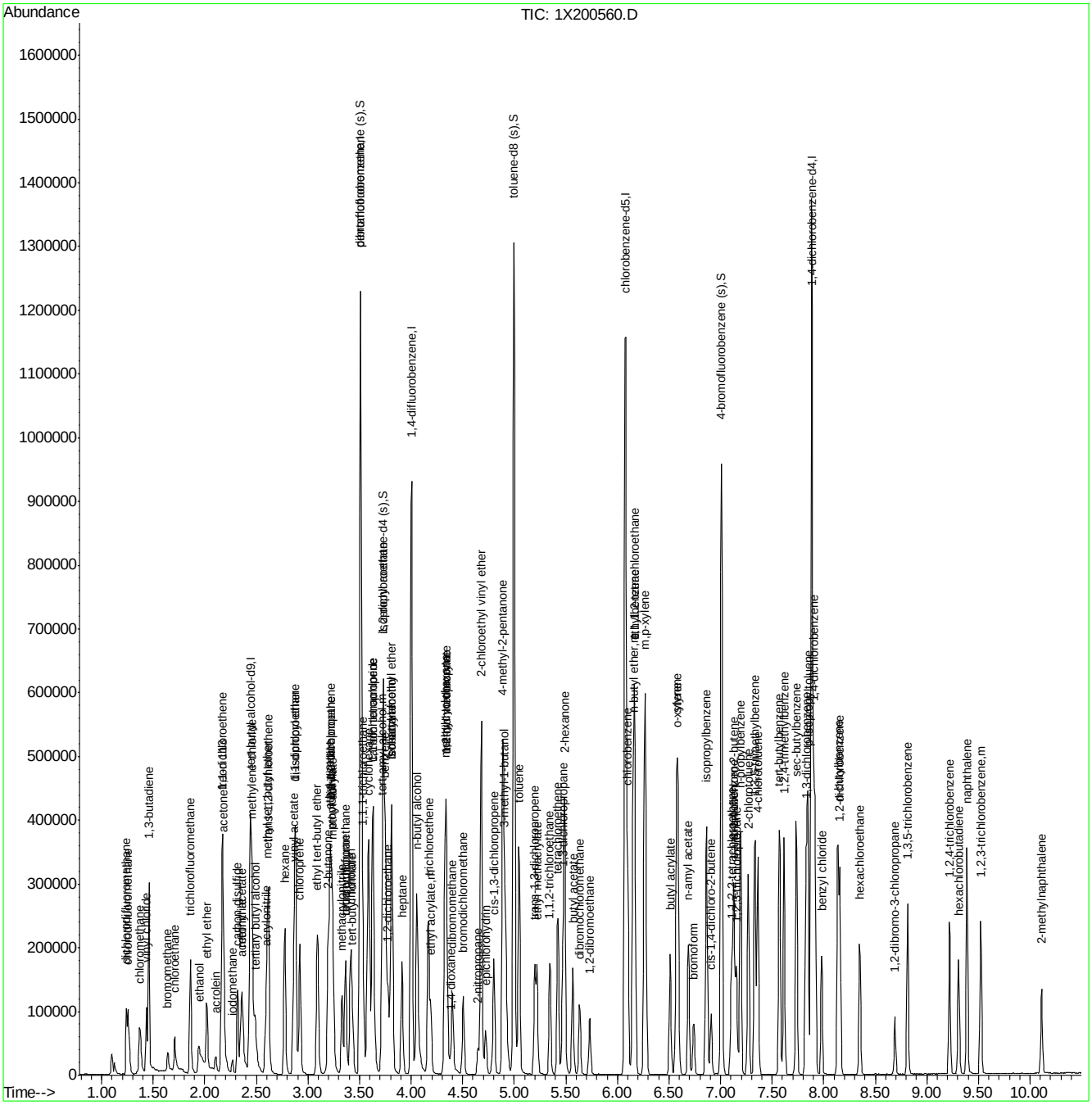
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) styrene | 6.59 | 104 | 138151 | 19.18 | ug/L | 99 |
| 92) butyl acrylate | 6.51 | 55 | 95918 | 18.35 | ug/L | 99 |
| 93) n-amyl acetate | 6.69 | 70 | 32272 | 18.48 | ug/L | 99 |
| 94) bromoform | 6.74 | 173 | 30437 | 16.77 | ug/L | 96 |
| 95) isopropylbenzene | 6.86 | 105 | 215483 | 19.32 | ug/L | 99 |
| 96) cis-1,4-dichloro-2-butene | 6.91 | 88 | 16003 | 15.69 | ug/L | 94 |
| 99) bromobenzene | 7.13 | 156 | 55941 | 18.43 | ug/L | 99 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 58795 | 18.53 | ug/L | 99 |
| 101) trans-1,4-dichloro-2-buten | 7.14 | 53 | 16174 | 17.28 | ug/L | 86 |
| 102) 1,2,3-trichloropropane | 7.15 | 110 | 19262 | 18.80 | ug/L | 93 |
| 103) n-propylbenzene | 7.19 | 91 | 240327 | 19.22 | ug/L | 98 |
| 104) 2-chlorotoluene | 7.27 | 126 | 53503 | 19.24 | ug/L | 100 |
| 105) 4-chlorotoluene | 7.36 | 91 | 139012 | 19.14 | ug/L | 98 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 159225 | 19.11 | ug/L | 99 |
| 107) tert-butylbenzene | 7.57 | 119 | 153567 | 19.28 | ug/L | 98 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 157842 | 19.11 | ug/L | 99 |
| 109) sec-butylbenzene | 7.73 | 105 | 213563 | 19.12 | ug/L | 99 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 102729 | 18.91 | ug/L | 100 |
| 111) p-isopropyltoluene | 7.85 | 119 | 181445 | 19.11 | ug/L | 100 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 104873 | 19.00 | ug/L | 98 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 98161 | 19.04 | ug/L | 99 |
| 114) benzyl chloride | 7.98 | 91 | 88514 | 17.28 | ug/L | 100 |
| 115) n-butylbenzene | 8.13 | 92 | 79041 | 18.85 | ug/L | 100 |
| 116) 1,2-dibromo-3-chloropropan | 8.69 | 157 | 17355 | 17.55 | ug/L | 99 |
| 117) 1,3,5-trichlorobenzene | 8.81 | 180 | 61943 | 18.73 | ug/L | 99 |
| 118) hexachlorobutadiene | 9.31 | 225 | 22290 | 19.05 | ug/L | 97 |
| 119) naphthalene | 9.39 | 128 | 196837 | 18.71 | ug/L | 99 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 52950 | 18.49 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 9.52 | 180 | 52122 | 18.61 | ug/L | 98 |
| 122) hexachloroethane | 8.35 | 201 | 19512 | 16.61 | ug/L | 89 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 49729 | 8.71 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200560.D
Acq On : 29 Sep 2022 12:48 am
Operator : PrashanS
Sample : IC8636-20
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 29 08:35:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration




M1X8636.M Thu Sep 29 16:09:45 2022 GCMSX Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200562.D
Acq On : 29 Sep 2022 1:25 am
Operator : PrashanS
Sample : ICC8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 29 08:35:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 372113 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 405044 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 578854 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.07 | 117 | 537918 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 274585 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 190194 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 215159 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.00% | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 637800 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 234991 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 1.94 | 45 | 168755 | 5000.00 | ug/L | 100 |
| 3) tertiary butyl alcohol | 2.49 | 59 | 140821 | 250.00 | ug/L | 100 |
| 4) 1,4-dioxane | 4.38 | 88 | 59480 | 1250.00 | ug/L | 100 |
| 6) chlorodifluoromethane | 1.26 | 51 | 166886 | 50.00 | ug/L | 100 |
| 7) dichlorodifluoromethane | 1.24 | 85 | 164409 | 50.00 | ug/L | 100 |
| 8) chloromethane | 1.37 | 50 | 169725 | 50.00 | ug/L | 100 |
| 9) vinyl chloride | 1.44 | 62 | 184112 | 50.00 | ug/L | 100 |
| 10) bromomethane | 1.64 | 96 | 28737 | 50.00 | ug/L | 100 |
| 11) chloroethane | 1.71 | 64 | 74557 | 50.00 | ug/L | 100 |
| 12) trichlorofluoromethane | 1.86 | 101 | 252540 | 50.00 | ug/L | 100 |
| 13) 1,3-butadiene | 1.46 | 54 | 144602 | 50.00 | ug/L | 100 |
| 14) ethyl ether | 2.02 | 74 | 61006 | 50.00 | ug/L | 100 |
| 15) acrolein | 2.11 | 56 | 35816 | 50.00 | ug/L | 100 |
| 16) 1,1-dichloroethene | 2.17 | 96 | 117176 | 50.00 | ug/L | 100 |
| 17) freon 113 | 2.17 | 101 | 140601 | 50.00 | ug/L | 100 |
| 18) acetone | 2.19 | 58 | 75103 | 200.00 | ug/L | 100 |
| 19) acetonitrile | 2.35 | 41 | 254499 | 500.00 | ug/L | 100 |
| 20) iodomethane | 2.27 | 142 | 78961 | 50.00 | ug/L | 100 |
| 21) carbon disulfide | 2.32 | 76 | 294891 | 50.00 | ug/L | 100 |
| 22) methylene chloride | 2.46 | 84 | 110117 | 50.00 | ug/L | 100 |
| 23) methyl acetate | 2.36 | 43 | 160316 | 50.00 | ug/L | 100 |
| 24) methyl tert butyl ether | 2.61 | 73 | 334781 | 50.00 | ug/L | 100 |
| 25) acrylonitrile | 2.59 | 53 | 75520 | 50.00 | ug/L | 100 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 123172 | 50.00 | ug/L | 100 |
| 27) hexane | 2.78 | 57 | 191791 | 50.00 | ug/L | 100 |
| 28) di-isopropyl ether | 2.88 | 45 | 416691 | 50.00 | ug/L | 100 |
| 29) 2-butanone | 3.20 | 72 | 91319 | 200.00 | ug/L | 100 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 214691 | 50.00 | ug/L | 100 |
| 31) chloroprene | 2.92 | 53 | 211659 | 50.00 | ug/L | 100 |
| 32) vinyl acetate | 2.86 | 86 | 26408 | 50.00 | ug/L | 100 |
| 33) ethyl tert-butyl ether | 3.09 | 59 | 378101 | 50.00 | ug/L | 100 |
| 34) ethyl acetate | 3.21 | 45 | 34552 | 50.00 | ug/L | 100 |
| 35) 2,2-dichloropropane | 3.22 | 77 | 176147 | 50.00 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200562.D
Acq On : 29 Sep 2022 1:25 am
Operator : PrashanS
Sample : ICC8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 29 08:35:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 3.22 | 96 | 133549 | 50.00 | ug/L | 100 |
| 37) methyl acrylate | 3.25 | 55 | 210409 | 49.94 | ug/L | 100 |
| 38) propionitrile | 3.24 | 54 | 307927 | 500.00 | ug/L | 100 |
| 39) tert-butyl formate | 3.43 | 59 | 87301 | 50.00 | ug/L | 100 |
| 40) bromochloromethane | 3.36 | 128 | 66482 | 50.00 | ug/L | 100 |
| 41) tetrahydrofuran | 3.37 | 42 | 68358 | 50.27 | ug/L | 100 |
| 42) chloroform | 3.41 | 83 | 212684 | 50.00 | ug/L | 100 |
| 44) methacrylonitrile | 3.33 | 67 | 67386 | 50.00 | ug/L | 100 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 212862 | 50.00 | ug/L | 100 |
| 46) cyclohexane | 3.58 | 84 | 192212 | 50.00 | ug/L | 100 |
| 47) tert amyl alcohol | 3.72 | 55 | 53421 | 245.40 | ug/L | 100 |
| 48) 1,1-dichloropropene | 3.62 | 75 | 175993 | 50.00 | ug/L | 100 |
| 49) isobutyl alcohol | 3.81 | 42 | 25847 | 500.00 | ug/L | 100 |
| 50) carbon tetrachloride | 3.63 | 117 | 194172 | 50.00 | ug/L | 100 |
| 51) isopropyl acetate | 3.74 | 87 | 33145 | 50.00 | ug/L | 100 |
| 54) iso-octane | 3.81 | 57 | 397602 | 50.00 | ug/L | 100 |
| 55) epichlorohydrin | 4.72 | 57 | 109733 | 250.00 | ug/L | 100 |
| 56) n-butyl alcohol | 4.06 | 56 | 363958 | 2500.09 | ug/L | 100 |
| 57) benzene | 3.75 | 78 | 474820 | 50.00 | ug/L | 100 |
| 58) tert-amyl methyl ether | 3.81 | 73 | 340482 | 50.00 | ug/L | 100 |
| 59) heptane | 3.91 | 57 | 72186 | 51.04 | ug/L | 100 |
| 60) 1,2-dichloroethane | 3.78 | 62 | 174486 | 50.00 | ug/L | 100 |
| 61) trichloroethene | 4.17 | 130 | 154715 | 50.00 | ug/L | 100 |
| 62) ethyl acrylate | 4.19 | 55 | 211808 | 50.00 | ug/L | 100 |
| 63) 2-nitropropane | 4.65 | 41 | 52719 | 50.00 | ug/L | 100 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 454172 | 250.00 | ug/L | 100 |
| 65) methyl methacrylate | 4.34 | 100 | 42309 | 50.00 | ug/L | 100 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 49656 | 50.00 | ug/L | 100 |
| 67) dibromomethane | 4.40 | 93 | 80568 | 50.00 | ug/L | 100 |
| 68) methylcyclohexane | 4.33 | 83 | 210834 | 50.00 | ug/L | 100 |
| 69) bromodichloromethane | 4.51 | 83 | 150890 | 50.00 | ug/L | 100 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 179598 | 50.00 | ug/L | 100 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 284743 | 200.00 | ug/L | 100 |
| 72) 3-methyl-1-butanol | 4.91 | 70 | 119412 | 1000.00 | ug/L | 100 |
| 75) toluene | 5.04 | 92 | 295605 | 50.00 | ug/L | 100 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 163748 | 50.00 | ug/L | 100 |
| 77) ethyl methacrylate | 5.22 | 69 | 158919 | 50.00 | ug/L | 100 |
| 78) 1,1,2-trichloroethane | 5.34 | 83 | 93095 | 50.00 | ug/L | 100 |
| 79) tetrachloroethene | 5.42 | 164 | 121232 | 50.00 | ug/L | 100 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 173181 | 50.00 | ug/L | 100 |
| 81) 2-hexanone | 5.49 | 58 | 291869 | 200.00 | ug/L | 100 |
| 82) butyl acetate | 5.57 | 56 | 100469 | 50.00 | ug/L | 100 |
| 83) dibromochloromethane | 5.63 | 129 | 133659 | 50.00 | ug/L | 100 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 128900 | 50.00 | ug/L | 100 |
| 85) n-butyl ether | 6.15 | 57 | 497563 | 50.00 | ug/L | 100 |
| 86) chlorobenzene | 6.10 | 112 | 335895 | 50.00 | ug/L | 100 |
| 87) 1,1,1,2-tetrachloroethane | 6.16 | 131 | 127282 | 50.00 | ug/L | 100 |
| 88) ethylbenzene | 6.16 | 91 | 563484 | 50.00 | ug/L | 100 |
| 89) m,p-xylene | 6.27 | 106 | 450639 | 100.00 | ug/L | 100 |
| 90) o-xylene | 6.57 | 91 | 429137 | 50.00 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200562.D
Acq On : 29 Sep 2022 1:25 am
Operator : PrashanS
Sample : ICC8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 29 08:35:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

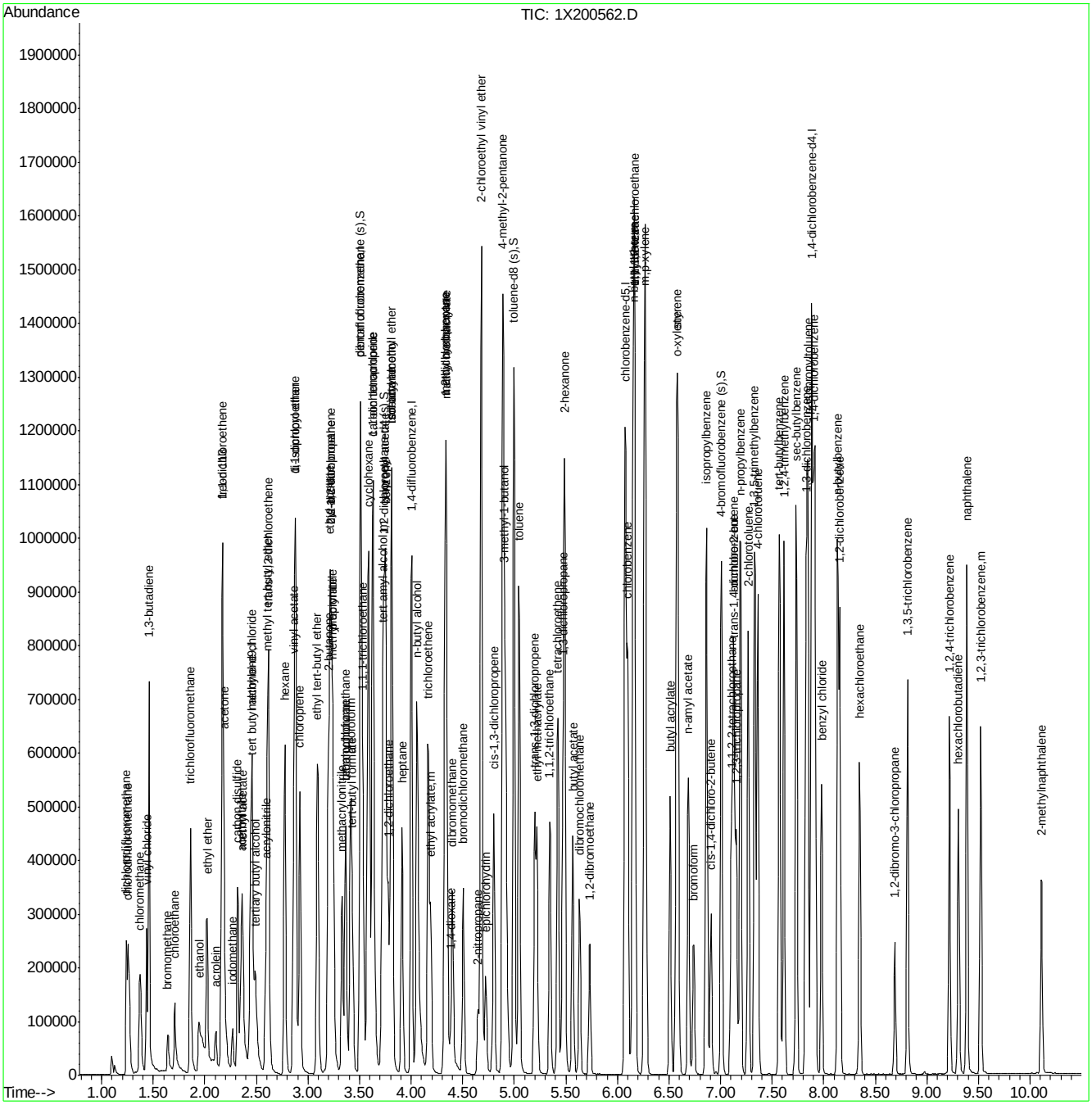
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) styrene | 6.59 | 104 | 367430 | 50.00 | ug/L | 100 |
| 92) butyl acrylate | 6.51 | 55 | 266557 | 50.00 | ug/L | 100 |
| 93) n-amyl acetate | 6.69 | 70 | 89053 | 50.00 | ug/L | 100 |
| 94) bromoform | 6.74 | 173 | 92562 | 50.00 | ug/L | 100 |
| 95) isopropylbenzene | 6.86 | 105 | 568799 | 50.00 | ug/L | 100 |
| 96) cis-1,4-dichloro-2-butene | 6.91 | 88 | 52029 | 50.00 | ug/L | 100 |
| 99) bromobenzene | 7.13 | 156 | 153913 | 50.00 | ug/L | 100 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 160930 | 50.00 | ug/L | 100 |
| 101) trans-1,4-dichloro-2-buten | 7.14 | 53 | 47468 | 50.00 | ug/L | 100 |
| 102) 1,2,3-trichloropropane | 7.15 | 110 | 51948 | 50.00 | ug/L | 100 |
| 103) n-propylbenzene | 7.19 | 91 | 634017 | 50.00 | ug/L | 100 |
| 104) 2-chlorotoluene | 7.27 | 126 | 140986 | 50.00 | ug/L | 100 |
| 105) 4-chlorotoluene | 7.36 | 91 | 368384 | 50.00 | ug/L | 100 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 422544 | 50.00 | ug/L | 100 |
| 107) tert-butylbenzene | 7.57 | 119 | 403972 | 50.00 | ug/L | 100 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 418787 | 50.00 | ug/L | 100 |
| 109) sec-butylbenzene | 7.73 | 105 | 566409 | 50.00 | ug/L | 100 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 275494 | 50.00 | ug/L | 100 |
| 111) p-isopropyltoluene | 7.85 | 119 | 481564 | 50.00 | ug/L | 100 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 279950 | 50.00 | ug/L | 100 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 261410 | 50.00 | ug/L | 100 |
| 114) benzyl chloride | 7.98 | 91 | 259774 | 50.00 | ug/L | 100 |
| 115) n-butylbenzene | 8.13 | 92 | 212691 | 50.00 | ug/L | 100 |
| 116) 1,2-dibromo-3-chloropropan | 8.69 | 157 | 50156 | 50.00 | ug/L | 100 |
| 117) 1,3,5-trichlorobenzene | 8.81 | 180 | 167722 | 50.00 | ug/L | 100 |
| 118) hexachlorobutadiene | 9.30 | 225 | 59342 | 50.00 | ug/L | 100 |
| 119) naphthalene | 9.39 | 128 | 533450 | 50.00 | ug/L | 100 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 145219 | 50.00 | ug/L | 100 |
| 121) 1,2,3-trichlorobenzene | 9.52 | 180 | 142050 | 50.00 | ug/L | 100 |
| 122) hexachloroethane | 8.35 | 201 | 59570 | 50.00 | ug/L | 100 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 144820 | 25.00 | ug/L | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200562.D
Acq On : 29 Sep 2022 1:25 am
Operator : PrashanS
Sample : ICC8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 29 08:35:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200564.D
Acq On : 29 Sep 2022 2:01 am
Operator : PrashanS
Sample : IC8636-100
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 29 08:35:13 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 380540 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 425838 | 50.00 | ug/L | | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 599212 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 6.07 | 117 | 553178 | 50.00 | ug/L | | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 275879 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 197095 | 49.28 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.56% | | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 222651 | 49.98 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.96% | | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 660398 | 50.34 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.68% | | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 237685 | 50.34 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.68% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.94 | 45 | 303436 | 8791.34 | ug/L | | 96 |
| 3) tertiary butyl alcohol | 2.49 | 59 | 281270 | 488.28 | ug/L | | 95 |
| 4) 1,4-dioxane | 4.38 | 88 | 118665 | 2438.58 | ug/L | | 95 |
| 6) chlorodifluoromethane | 1.25 | 51 | 331466 | 94.46 | ug/L | | 99 |
| 7) dichlorodifluoromethane | 1.24 | 85 | 328650 | 95.07 | ug/L | | 100 |
| 8) chloromethane | 1.37 | 50 | 329808 | 92.42 | ug/L | | 99 |
| 9) vinyl chloride | 1.43 | 62 | 357106 | 92.25 | ug/L | | 99 |
| 10) bromomethane | 1.64 | 96 | 54102 | 89.54 | ug/L | | 96 |
| 11) chloroethane | 1.70 | 64 | 125435 | 80.01 | ug/L | | 99 |
| 12) trichlorofluoromethane | 1.86 | 101 | 500341 | 94.22 | ug/L | | 99 |
| 13) 1,3-butadiene | 1.46 | 54 | 275767 | 90.70 | ug/L | | 99 |
| 14) ethyl ether | 2.02 | 74 | 121890 | 95.02 | ug/L | | 92 |
| 15) acrolein | 2.10 | 56 | 72418 | 96.16 | ug/L | | 96 |
| 16) 1,1-dichloroethene | 2.17 | 96 | 240484 | 97.61 | ug/L | | 97 |
| 17) freon 113 | 2.17 | 101 | 295688 | 100.02 | ug/L | | 98 |
| 18) acetone | 2.18 | 58 | 148564 | 376.31 | ug/L | | 97 |
| 19) acetonitrile | 2.35 | 41 | 504619 | 942.99 | ug/L | | 99 |
| 20) iodomethane | 2.27 | 142 | 195159 | 117.54 | ug/L | | 99 |
| 21) carbon disulfide | 2.32 | 76 | 613459 | 98.94 | ug/L | | 98 |
| 22) methylene chloride | 2.46 | 84 | 217067 | 93.75 | ug/L | | 96 |
| 23) methyl acetate | 2.36 | 43 | 315580 | 93.62 | ug/L | | 98 |
| 24) methyl tert butyl ether | 2.61 | 73 | 679553 | 96.54 | ug/L | | 100 |
| 25) acrylonitrile | 2.59 | 53 | 152638 | 96.12 | ug/L | | 99 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 253708 | 97.96 | ug/L | | 96 |
| 27) hexane | 2.78 | 57 | 401734 | 99.62 | ug/L | | 99 |
| 28) di-isopropyl ether | 2.88 | 45 | 848921 | 96.89 | ug/L | | 98 |
| 29) 2-butanone | 3.20 | 72 | 181999 | 379.14 | ug/L | | 94 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 437763 | 96.97 | ug/L | | 99 |
| 31) chloroprene | 2.92 | 53 | 434104 | 97.54 | ug/L | | 99 |
| 32) vinyl acetate | 2.86 | 86 | 53432 | 96.23 | ug/L | # | 92 |
| 33) ethyl tert-butyl ether | 3.09 | 59 | 771345 | 97.02 | ug/L | | 100 |
| 34) ethyl acetate | 3.21 | 45 | 69788 | 96.06 | ug/L | | 98 |
| 35) 2,2-dichloropropane | 3.22 | 77 | 370875 | 100.13 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200564.D
Acq On : 29 Sep 2022 2:01 am
Operator : PrashanS
Sample : IC8636-100
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 29 08:35:13 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 3.21 | 96 | 270623 | 96.37 | ug/L | | 93 |
| 37) methyl acrylate | 3.24 | 55 | 425056 | 95.96 | ug/L | | 97 |
| 38) propionitrile | 3.24 | 54 | 604711 | 933.96 | ug/L | | 94 |
| 39) tert-butyl formate | 3.43 | 59 | 182472 | 99.40 | ug/L | | 97 |
| 40) bromochloromethane | 3.36 | 128 | 131736 | 94.24 | ug/L | | 99 |
| 41) tetrahydrofuran | 3.37 | 42 | 134482 | 94.07 | ug/L | | 99 |
| 42) chloroform | 3.41 | 83 | 431857 | 96.57 | ug/L | | 99 |
| 44) methacrylonitrile | 3.33 | 67 | 137093 | 96.75 | ug/L | | 97 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 437908 | 97.84 | ug/L | | 99 |
| 46) cyclohexane | 3.58 | 84 | 397886 | 98.45 | ug/L | | 97 |
| 47) tert amyl alcohol | 3.72 | 55 | 102419 | 447.50 | ug/L | | 95 |
| 48) 1,1-dichloropropene | 3.62 | 75 | 365469 | 98.76 | ug/L | | 100 |
| 49) isobutyl alcohol | 3.81 | 42 | 52085 | 958.36 | ug/L | # | 96 |
| 50) carbon tetrachloride | 3.63 | 117 | 413222 | 101.21 | ug/L | | 99 |
| 51) isopropyl acetate | 3.74 | 87 | 67094 | 96.27 | ug/L | | 98 |
| 54) iso-octane | 3.81 | 57 | 833526 | 101.26 | ug/L | | 99 |
| 55) epichlorohydrin | 4.72 | 57 | 209963 | 462.10 | ug/L | | 98 |
| 56) n-butyl alcohol | 4.06 | 56 | 728038 | 4831.11 | ug/L | | 99 |
| 57) benzene | 3.75 | 78 | 979156 | 99.61 | ug/L | | 100 |
| 58) tert-amyl methyl ether | 3.81 | 73 | 702806 | 99.70 | ug/L | | 100 |
| 59) heptane | 3.91 | 57 | 150824 | 103.02 | ug/L | | 99 |
| 60) 1,2-dichloroethane | 3.78 | 62 | 349729 | 96.81 | ug/L | | 99 |
| 61) trichloroethene | 4.17 | 130 | 317141 | 99.01 | ug/L | | 98 |
| 62) ethyl acrylate | 4.19 | 55 | 432267 | 98.58 | ug/L | | 100 |
| 63) 2-nitropropane | 4.65 | 41 | 110802 | 101.52 | ug/L | | 100 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 919446 | 488.92 | ug/L | | 99 |
| 65) methyl methacrylate | 4.34 | 100 | 85783 | 97.93 | ug/L | # | 90 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 100592 | 97.85 | ug/L | | 98 |
| 67) dibromomethane | 4.40 | 93 | 162248 | 97.27 | ug/L | | 97 |
| 68) methylcyclohexane | 4.33 | 83 | 440876 | 101.00 | ug/L | | 99 |
| 69) bromodichloromethane | 4.50 | 83 | 309369 | 99.03 | ug/L | | 100 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 365517 | 98.30 | ug/L | | 98 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 577123 | 391.59 | ug/L | | 98 |
| 72) 3-methyl-1-butanol | 4.92 | 70 | 244242 | 1975.88 | ug/L | | 99 |
| 75) toluene | 5.04 | 92 | 613802 | 100.96 | ug/L | | 97 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 339532 | 100.82 | ug/L | | 100 |
| 77) ethyl methacrylate | 5.22 | 69 | 318401 | 97.41 | ug/L | | 98 |
| 78) 1,1,2-trichloroethane | 5.34 | 83 | 186214 | 97.25 | ug/L | | 99 |
| 79) tetrachloroethene | 5.42 | 164 | 252388 | 101.22 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 345874 | 97.10 | ug/L | | 99 |
| 81) 2-hexanone | 5.49 | 58 | 584575 | 389.52 | ug/L | | 100 |
| 82) butyl acetate | 5.57 | 56 | 198909 | 96.26 | ug/L | | 97 |
| 83) dibromochloromethane | 5.63 | 129 | 276908 | 100.73 | ug/L | | 98 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 254727 | 96.08 | ug/L | | 97 |
| 85) n-butyl ether | 6.15 | 57 | 1013770 | 99.06 | ug/L | | 99 |
| 86) chlorobenzene | 6.10 | 112 | 674939 | 97.70 | ug/L | | 99 |
| 87) 1,1,1,2-tetrachloroethane | 6.16 | 131 | 265555 | 101.44 | ug/L | | 98 |
| 88) ethylbenzene | 6.16 | 91 | 1163416 | 100.39 | ug/L | | 100 |
| 89) m,p-xylene | 6.27 | 106 | 920234 | 198.57 | ug/L | | 99 |
| 90) o-xylene | 6.58 | 91 | 875303 | 99.17 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200564.D
Acq On : 29 Sep 2022 2:01 am
Operator : PrashanS
Sample : IC8636-100
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 29 08:35:13 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

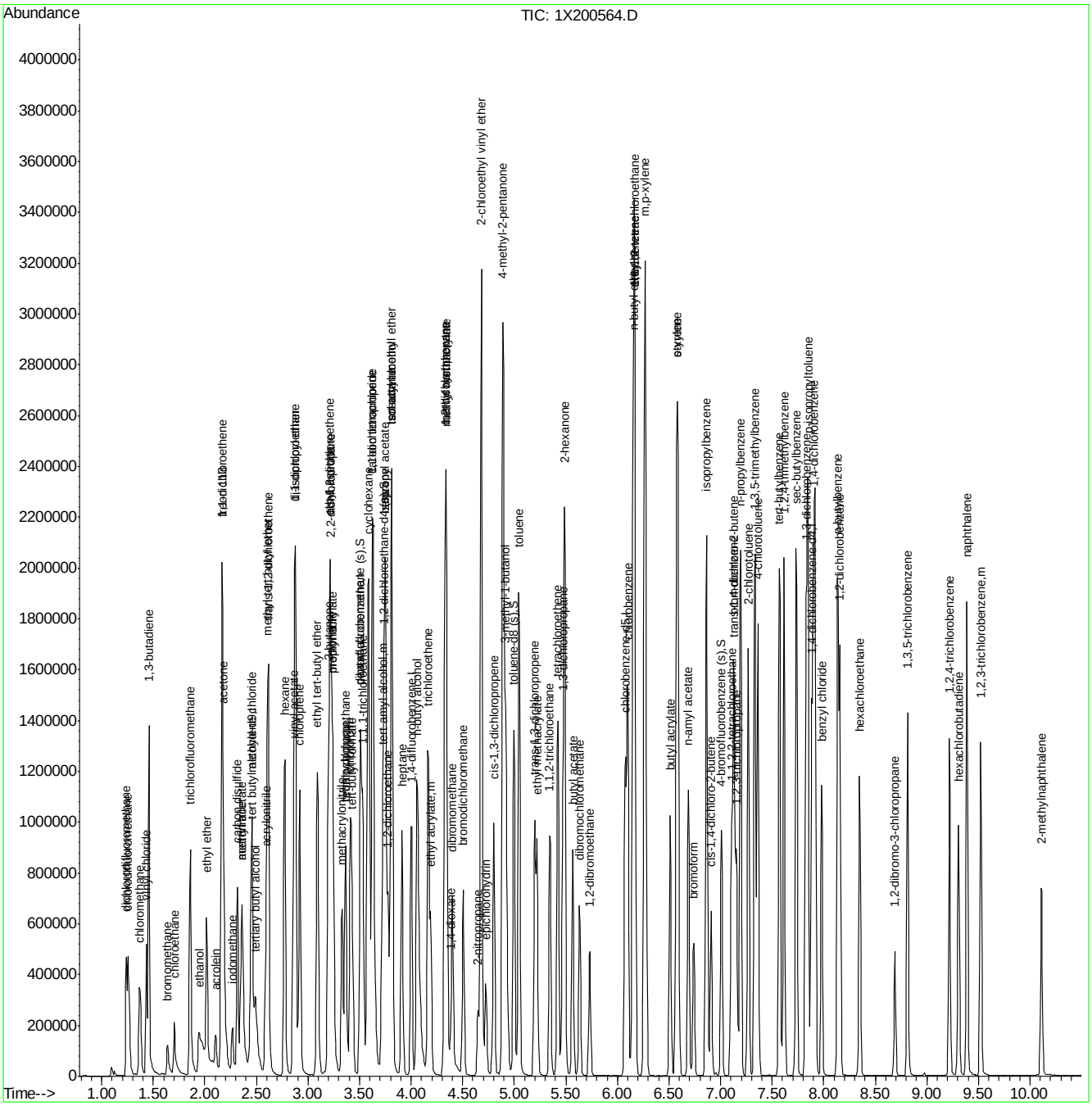
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) styrene | 6.59 | 104 | 740350 | 97.97 | ug/L | 99 |
| 92) butyl acrylate | 6.51 | 55 | 526052 | 95.95 | ug/L | 98 |
| 93) n-amyl acetate | 6.69 | 70 | 174658 | 95.36 | ug/L | 98 |
| 94) bromoform | 6.74 | 173 | 197244 | 103.61 | ug/L | 99 |
| 95) isopropylbenzene | 6.86 | 105 | 1142103 | 97.63 | ug/L | 99 |
| 96) cis-1,4-dichloro-2-butene | 6.91 | 88 | 115998 | 108.40 | ug/L | 99 |
| 99) bromobenzene | 7.13 | 156 | 300874 | 97.28 | ug/L | 95 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 320849 | 99.22 | ug/L | 100 |
| 101) trans-1,4-dichloro-2-buten | 7.14 | 53 | 100873 | 105.76 | ug/L | 97 |
| 102) 1,2,3-trichloropropane | 7.15 | 110 | 101558 | 97.29 | ug/L | 87 |
| 103) n-propylbenzene | 7.19 | 91 | 1274405 | 100.03 | ug/L | 98 |
| 104) 2-chlorotoluene | 7.27 | 126 | 280211 | 98.91 | ug/L | 99 |
| 105) 4-chlorotoluene | 7.36 | 91 | 733652 | 99.11 | ug/L | 99 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 864047 | 101.76 | ug/L | 99 |
| 107) tert-butylbenzene | 7.57 | 119 | 806927 | 99.41 | ug/L | 100 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 849408 | 100.94 | ug/L | 100 |
| 109) sec-butylbenzene | 7.73 | 105 | 1141841 | 100.32 | ug/L | 99 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 541295 | 97.78 | ug/L | 99 |
| 111) p-isopropyltoluene | 7.85 | 119 | 978019 | 101.07 | ug/L | 99 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 545438 | 96.96 | ug/L | 99 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 511604 | 97.40 | ug/L | 99 |
| 114) benzyl chloride | 7.98 | 91 | 540390 | 103.52 | ug/L | 99 |
| 115) n-butylbenzene | 8.13 | 92 | 431226 | 100.90 | ug/L | 99 |
| 116) 1,2-dibromo-3-chloropropan | 8.69 | 157 | 100067 | 99.29 | ug/L | 98 |
| 117) 1,3,5-trichlorobenzene | 8.81 | 180 | 328084 | 97.35 | ug/L | 97 |
| 118) hexachlorobutadiene | 9.30 | 225 | 121979 | 102.29 | ug/L | 99 |
| 119) naphthalene | 9.39 | 128 | 1059976 | 98.89 | ug/L | 99 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 289842 | 99.33 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 9.52 | 180 | 288793 | 101.18 | ug/L | 99 |
| 122) hexachloroethane | 8.35 | 201 | 128214 | 107.11 | ug/L | 96 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 296527 | 50.95 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200564.D
Acq On : 29 Sep 2022 2:01 am
Operator : PrashanS
Sample : IC8636-100
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 29 08:35:13 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200566.D
Acq On : 29 Sep 2022 2:37 am
Operator : PrashanS
Sample : IC8636-200
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 13:58:25 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 377815 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 444925 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 620401 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.07 | 117 | 561058 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 269248 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 204989 | 49.06 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.12% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 233092 | 50.54 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.08% | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 686231 | 51.58 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.16% | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 233867 | 50.75 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.50% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 1.95 | 45 | 515681 | 15048.39 | ug/L | 97 |
| 3) tertiary butyl alcohol | 2.49 | 59 | 539596 | 943.49 | ug/L | 93 |
| 4) 1,4-dioxane | 4.39 | 88 | 237787 | 4921.79 | ug/L | 95 |
| 6) chlorodifluoromethane | 1.25 | 51 | 652628 | 178.00 | ug/L | 100 |
| 7) dichlorodifluoromethane | 1.23 | 85 | 639412 | 177.03 | ug/L | 99 |
| 8) chloromethane | 1.37 | 50 | 637860 | 171.07 | ug/L | 98 |
| 9) vinyl chloride | 1.43 | 62 | 695366 | 171.92 | ug/L | 100 |
| 10) bromomethane | 1.63 | 96 | 86121 | 136.41 | ug/L | 99 |
| 12) trichlorofluoromethane | 1.85 | 101 | 938634 | 169.18 | ug/L | 99 |
| 13) 1,3-butadiene | 1.45 | 54 | 515591 | 162.30 | ug/L | 99 |
| 14) ethyl ether | 2.02 | 74 | 246953 | 184.26 | ug/L | 94 |
| 15) acrolein | 2.10 | 56 | 143225 | 182.02 | ug/L | 98 |
| 16) 1,1-dichloroethene | 2.17 | 96 | 487350 | 189.32 | ug/L | 97 |
| 17) freon 113 | 2.16 | 101 | 588707 | 190.59 | ug/L | 99 |
| 18) acetone | 2.18 | 58 | 295393 | 716.12 | ug/L | 98 |
| 19) acetonitrile | 2.35 | 41 | 983289 | 1758.65 | ug/L | 99 |
| 20) iodomethane | 2.26 | 142 | 420286 | 242.28 | ug/L | 99 |
| 21) carbon disulfide | 2.31 | 76 | 1284262 | 198.23 | ug/L | 99 |
| 22) methylene chloride | 2.46 | 84 | 440075 | 181.91 | ug/L | 98 |
| 23) methyl acetate | 2.36 | 43 | 622718 | 176.81 | ug/L | 99 |
| 24) methyl tert butyl ether | 2.60 | 73 | 1401166 | 190.51 | ug/L | 99 |
| 25) acrylonitrile | 2.59 | 53 | 302492 | 182.32 | ug/L | 100 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 526930 | 194.73 | ug/L | 98 |
| 27) hexane | 2.77 | 57 | 794624 | 188.59 | ug/L | 99 |
| 28) di-isopropyl ether | 2.88 | 45 | 1735286 | 189.56 | ug/L | 96 |
| 29) 2-butanone | 3.20 | 72 | 362123 | 722.01 | ug/L | 94 |
| 30) 1,1-dichloroethane | 2.87 | 63 | 900145 | 190.85 | ug/L | 99 |
| 31) chloroprene | 2.92 | 53 | 886411 | 190.63 | ug/L | 98 |
| 32) vinyl acetate | 2.86 | 86 | 107743 | 185.71 | ug/L | 99 |
| 33) ethyl tert-butyl ether | 3.09 | 59 | 1590021 | 191.42 | ug/L | 99 |
| 34) ethyl acetate | 3.21 | 45 | 137819 | 181.56 | ug/L | 96 |
| 35) 2,2-dichloropropane | 3.22 | 77 | 766845 | 198.16 | ug/L | 97 |
| 36) cis-1,2-dichloroethene | 3.21 | 96 | 563666 | 192.12 | ug/L | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200566.D
Acq On : 29 Sep 2022 2:37 am
Operator : PrashanS
Sample : IC8636-200
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 13:58:25 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 37) methyl acrylate | 3.24 | 55 | 860208 | 185.86 | ug/L | | 98 |
| 38) propionitrile | 3.24 | 54 | 1195200 | 1766.76 | ug/L | | 87 |
| 39) tert-butyl formate | 3.43 | 59 | 391999 | 204.39 | ug/L | | 96 |
| 40) bromochloromethane | 3.36 | 128 | 261714 | 179.19 | ug/L | | 99 |
| 41) tetrahydrofuran | 3.37 | 42 | 264676 | 177.20 | ug/L | | 98 |
| 42) chloroform | 3.41 | 83 | 884496 | 189.30 | ug/L | | 99 |
| 44) methacrylonitrile | 3.33 | 67 | 273329 | 184.63 | ug/L | | 98 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 901687 | 192.82 | ug/L | | 98 |
| 46) cyclohexane | 3.58 | 84 | 814326 | 192.84 | ug/L | | 82 |
| 47) tert amyl alcohol | 3.72 | 55 | 195676 | 818.30 | ug/L | | 91 |
| 48) 1,1-dichloropropene | 3.62 | 75 | 748434 | 193.57 | ug/L | | 99 |
| 49) isobutyl alcohol | 3.81 | 42 | 107251 | 1888.76 | ug/L | | 97 |
| 50) carbon tetrachloride | 3.63 | 117 | 862307 | 202.14 | ug/L | | 99 |
| 51) isopropyl acetate | 3.74 | 87 | 137325 | 188.59 | ug/L | | 98 |
| 54) iso-octane | 3.81 | 57 | 1721588 | 202.00 | ug/L | | 99 |
| 55) epichlorohydrin | 4.72 | 57 | 428657 | 911.19 | ug/L | | 98 |
| 56) n-butyl alcohol | 4.06 | 56 | 1443691 | 9252.84 | ug/L | | 99 |
| 57) benzene | 3.75 | 78 | 2014722 | 197.95 | ug/L | | 99 |
| 58) tert-amyl methyl ether | 3.81 | 73 | 1470071 | 201.42 | ug/L | | 99 |
| 59) heptane | 3.91 | 57 | 304109 | 200.62 | ug/L | | 97 |
| 60) 1,2-dichloroethane | 3.78 | 62 | 710582 | 189.99 | ug/L | | 100 |
| 61) trichloroethene | 4.16 | 130 | 649884 | 195.96 | ug/L | | 96 |
| 62) ethyl acrylate | 4.19 | 55 | 871958 | 192.05 | ug/L | | 99 |
| 63) 2-nitropropane | 4.65 | 41 | 240722 | 213.02 | ug/L | | 99 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 1881078 | 966.10 | ug/L | | 99 |
| 65) methyl methacrylate | 4.34 | 100 | 176813 | 194.96 | ug/L | # | 85 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 209180 | 196.52 | ug/L | | 99 |
| 67) dibromomethane | 4.40 | 93 | 331760 | 192.10 | ug/L | | 97 |
| 68) methylcyclohexane | 4.33 | 83 | 906717 | 200.63 | ug/L | | 98 |
| 69) bromodichloromethane | 4.50 | 83 | 643217 | 198.87 | ug/L | | 100 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 755748 | 196.31 | ug/L | | 98 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 1155869 | 757.50 | ug/L | | 96 |
| 72) 3-methyl-1-butanol | 4.92 | 70 | 487344 | 3807.89 | ug/L | | 99 |
| 75) toluene | 5.04 | 92 | 1265426 | 205.21 | ug/L | | 97 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 700140 | 204.97 | ug/L | | 99 |
| 77) ethyl methacrylate | 5.22 | 69 | 643965 | 194.25 | ug/L | | 99 |
| 78) 1,1,2-trichloroethane | 5.35 | 83 | 374870 | 193.03 | ug/L | | 98 |
| 79) tetrachloroethene | 5.42 | 164 | 514208 | 203.33 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 693324 | 191.92 | ug/L | | 99 |
| 81) 2-hexanone | 5.49 | 58 | 1149637 | 755.29 | ug/L | | 96 |
| 82) butyl acetate | 5.57 | 56 | 390194 | 186.18 | ug/L | | 100 |
| 83) dibromochloromethane | 5.63 | 129 | 571936 | 205.13 | ug/L | | 99 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 512104 | 190.45 | ug/L | | 98 |
| 85) n-butyl ether | 6.15 | 57 | 2013304 | 193.97 | ug/L | | 99 |
| 86) chlorobenzene | 6.10 | 112 | 1364005 | 194.67 | ug/L | | 99 |
| 87) 1,1,1,2-tetrachloroethane | 6.16 | 131 | 550958 | 207.51 | ug/L | | 98 |
| 88) ethylbenzene | 6.16 | 91 | 2340764 | 199.14 | ug/L | | 100 |
| 89) m,p-xylene | 6.27 | 106 | 1849270 | 393.44 | ug/L | | 98 |
| 90) o-xylene | 6.58 | 91 | 1754534 | 195.99 | ug/L | | 99 |
| 91) styrene | 6.59 | 104 | 1483712 | 193.58 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200566.D
Acq On : 29 Sep 2022 2:37 am
Operator : PrashanS
Sample : IC8636-200
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 13:58:25 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

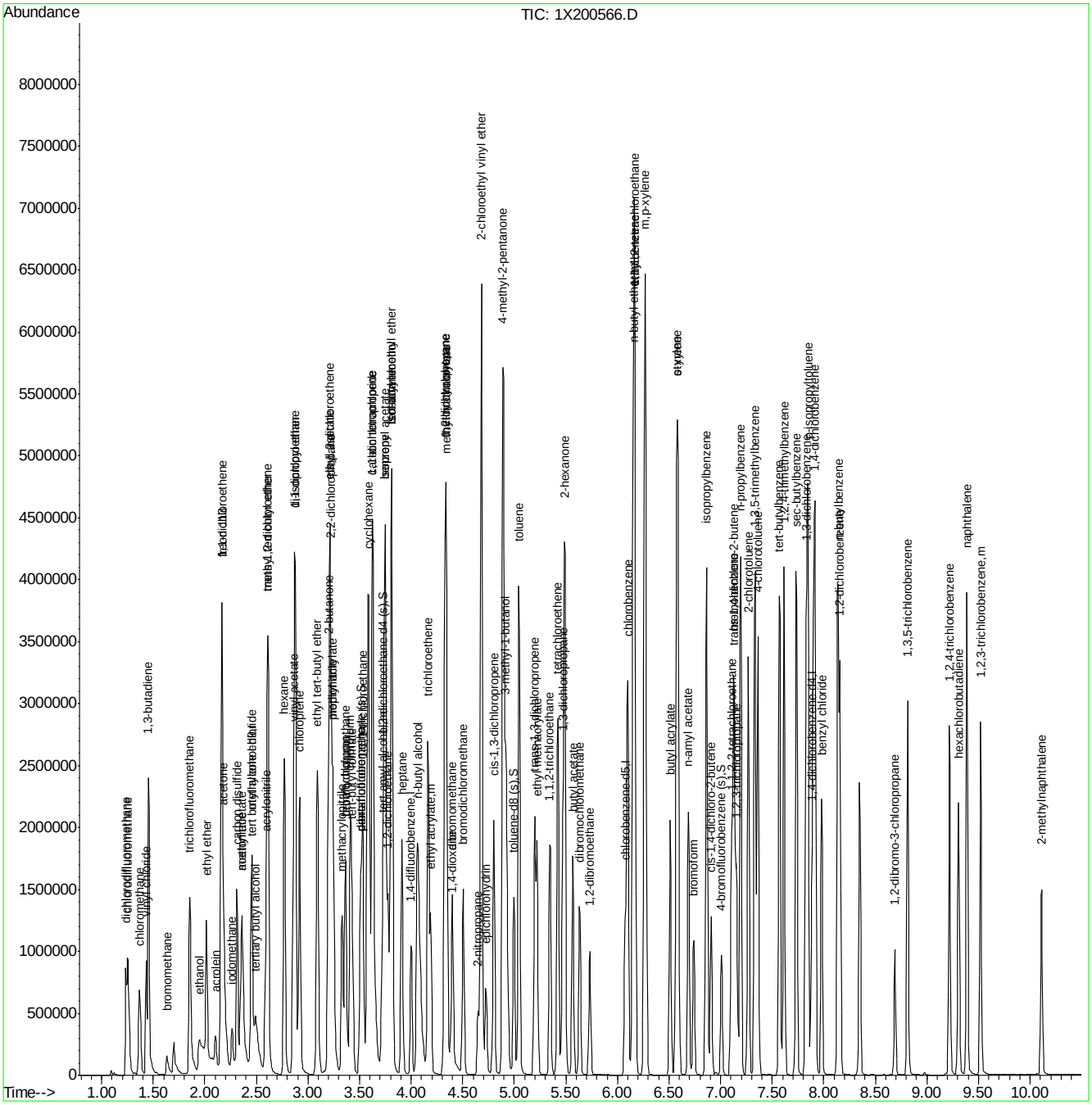
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 92) butyl acrylate | 6.51 | 55 | 1027815 | 184.84 | ug/L | 99 |
| 93) n-amyl acetate | 6.69 | 70 | 334133 | 179.87 | ug/L | 100 |
| 94) bromoform | 6.74 | 173 | 407843 | 211.22 | ug/L | 99 |
| 95) isopropylbenzene | 6.86 | 105 | 2235657 | 188.42 | ug/L | 99 |
| 96) cis-1,4-dichloro-2-butene | 6.91 | 88 | 241250 | 222.28 | ug/L | 94 |
| 99) bromobenzene | 7.13 | 156 | 599753 | 198.70 | ug/L | 96 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 628815 | 199.24 | ug/L | 100 |
| 101) trans-1,4-dichloro-2-buten | 7.14 | 53 | 202120 | 217.12 | ug/L | 95 |
| 102) 1,2,3-trichloropropane | 7.15 | 110 | 197908 | 194.26 | ug/L | 85 |
| 103) n-propylbenzene | 7.19 | 91 | 2463075 | 198.09 | ug/L | 98 |
| 104) 2-chlorotoluene | 7.27 | 126 | 549319 | 198.67 | ug/L | 97 |
| 105) 4-chlorotoluene | 7.36 | 91 | 1448793 | 200.54 | ug/L | 100 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 1719237 | 207.47 | ug/L | 99 |
| 107) tert-butylbenzene | 7.57 | 119 | 1557951 | 196.65 | ug/L | 99 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 1695881 | 206.49 | ug/L | 100 |
| 109) sec-butylbenzene | 7.73 | 105 | 2205657 | 198.56 | ug/L | 100 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 1068141 | 197.70 | ug/L | 99 |
| 111) p-isopropyltoluene | 7.85 | 119 | 1935908 | 204.99 | ug/L | 99 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 1084102 | 197.46 | ug/L | 98 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 1010949 | 197.20 | ug/L | 99 |
| 114) benzyl chloride | 7.98 | 91 | 1085736 | 213.12 | ug/L | 99 |
| 115) n-butylbenzene | 8.13 | 92 | 879400 | 210.83 | ug/L | 98 |
| 116) 1,2-dibromo-3-chloropropan | 8.69 | 157 | 205566 | 208.99 | ug/L | 98 |
| 117) 1,3,5-trichlorobenzene | 8.81 | 180 | 701357 | 213.23 | ug/L | 98 |
| 118) hexachlorobutadiene | 9.31 | 225 | 270733 | 232.63 | ug/L | 97 |
| 119) naphthalene | 9.39 | 128 | 2191555 | 209.49 | ug/L | 99 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 628671 | 220.75 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 9.52 | 180 | 614604 | 220.62 | ug/L | 99 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 607200 | 106.90 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200566.D
Acq On : 29 Sep 2022 2:37 am
Operator : PrashanS
Sample : IC8636-200
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 13:58:25 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/22 15:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200572.D
Acq On : 29 Sep 2022 4:25 am
Operator : PrashanS
Sample : ICV8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 29 14:02:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 391418 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 434205 | 50.00 | ug/L | | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 605103 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 6.07 | 117 | 563236 | 50.00 | ug/L | | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 286830 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 201287 | 49.14 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.28% | | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 225424 | 48.74 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 97.48% | | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 667127 | 49.52 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.04% | | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 244573 | 49.11 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.22% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.94 | 45 | 169072 | 4516.73 | ug/L | | 98 |
| 3) tertiary butyl alcohol | 2.49 | 59 | 153202 | 258.70 | ug/L | | 98 |
| 4) 1,4-dioxane | 4.38 | 88 | 61693 | 1310.59 | ug/L | # | 1 |
| 7) dichlorodifluoromethane | 1.24 | 85 | 187939 | 54.05 | ug/L | | 100 |
| 8) chloromethane | 1.37 | 50 | 180414 | 49.71 | ug/L | | 99 |
| 9) vinyl chloride | 1.43 | 62 | 201319 | 52.54 | ug/L | | 100 |
| 10) bromomethane | 1.64 | 96 | 32529 | 61.21 | ug/L | | 97 |
| 11) chloroethane | 1.70 | 64 | 84075 | 49.55 | ug/L | | 99 |
| 12) trichlorofluoromethane | 1.86 | 101 | 264244 | 52.67 | ug/L | | 99 |
| 13) 1,3-butadiene | 1.46 | 54 | 214887 | 70.24 | ug/L | | 99 |
| 14) ethyl ether | 2.02 | 74 | 64361 | 50.44 | ug/L | | 93 |
| 15) acrolein | 2.10 | 56 | 38718 | 53.64 | ug/L | | 97 |
| 16) 1,1-dichloroethene | 2.17 | 96 | 125593 | 51.81 | ug/L | | 94 |
| 17) freon 113 | 2.17 | 101 | 141789 | 47.97 | ug/L | | 98 |
| 18) acetone | 2.18 | 58 | 73617 | 178.86 | ug/L | | 91 |
| 20) iodomethane | 2.27 | 142 | 64276 | 57.80 | ug/L | | 99 |
| 21) carbon disulfide | 2.32 | 76 | 324076 | 53.20 | ug/L | | 98 |
| 22) methylene chloride | 2.46 | 84 | 116613 | 49.63 | ug/L | | 96 |
| 23) methyl acetate | 2.36 | 43 | 180609 | 54.03 | ug/L | | 99 |
| 24) methyl tert butyl ether | 2.60 | 73 | 357300 | 51.04 | ug/L | | 98 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 134871 | 51.39 | ug/L | | 95 |
| 27) hexane | 2.78 | 57 | 211789 | 51.15 | ug/L | | 99 |
| 28) di-isopropyl ether | 2.88 | 45 | 440006 | 50.42 | ug/L | | 96 |
| 29) 2-butanone | 3.19 | 72 | 96146 | 211.26 | ug/L | # | 83 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 227985 | 50.07 | ug/L | | 99 |
| 31) chloroprene | 2.92 | 53 | 237865 | 55.22 | ug/L | | 99 |
| 32) vinyl acetate | 2.86 | 86 | 21545 | 42.61 | ug/L | | 100 |
| 33) ethyl tert-butyl ether | 3.09 | 59 | 391235 | 50.20 | ug/L | | 99 |
| 34) ethyl acetate | 3.21 | 45 | 36445 | 53.04 | ug/L | | 98 |
| 35) 2,2-dichloropropane | 3.22 | 77 | 183632 | 48.59 | ug/L | | 98 |
| 36) cis-1,2-dichloroethene | 3.21 | 96 | 142477 | 50.30 | ug/L | | 95 |
| 37) methyl acrylate | 3.24 | 55 | 212265 | 49.56 | ug/L | | 98 |
| 38) propionitrile | 3.23 | 54 | 294694 | 455.01 | ug/L | | 80 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200572.D
Acq On : 29 Sep 2022 4:25 am
Operator : PrashanS
Sample : ICV8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 29 14:02:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 39) tert-butyl formate | 3.43 | 59 | 48592 | 28.58 | ug/L | | 95 |
| 40) bromochloromethane | 3.36 | 128 | 69632 | 48.19 | ug/L | | 99 |
| 41) tetrahydrofuran | 3.37 | 42 | 70787 | 48.78 | ug/L | | 100 |
| 42) chloroform | 3.41 | 83 | 234374 | 49.93 | ug/L | | 100 |
| 44) methacrylonitrile | 3.33 | 67 | 71407 | 52.76 | ug/L | | 99 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 228293 | 50.86 | ug/L | | 97 |
| 46) cyclohexane | 3.58 | 84 | 206084 | 50.22 | ug/L | | 91 |
| 47) tert amyl alcohol | 3.72 | 55 | 52620 | 227.95 | ug/L | | 100 |
| 48) 1,1-dichloropropene | 3.62 | 75 | 190604 | 51.67 | ug/L | | 99 |
| 49) isobutyl alcohol | 3.81 | 42 | 26121 | 449.33 | ug/L | # | 92 |
| 50) carbon tetrachloride | 3.63 | 117 | 206729 | 52.14 | ug/L | | 100 |
| 51) isopropyl acetate | 3.74 | 87 | 34116 | 54.06 | ug/L | # | 94 |
| 54) iso-octane | 3.81 | 57 | 406927 | 48.48 | ug/L | | 99 |
| 55) epichlorohydrin | 4.72 | 57 | 109150 | 259.43 | ug/L | | 100 |
| 56) n-butyl alcohol | 4.06 | 56 | 366828 | 2716.98 | ug/L | | 98 |
| 57) benzene | 3.75 | 78 | 511045 | 50.34 | ug/L | | 100 |
| 58) tert-amyl methyl ether | 3.81 | 73 | 344306 | 51.41 | ug/L | | 99 |
| 59) heptane | 3.91 | 57 | 81094 | 53.57 | ug/L | | 99 |
| 60) 1,2-dichloroethane | 3.78 | 62 | 182248 | 47.60 | ug/L | | 99 |
| 61) trichloroethene | 4.16 | 130 | 168161 | 53.20 | ug/L | | 97 |
| 62) ethyl acrylate | 4.19 | 55 | 209995 | 50.82 | ug/L | | 99 |
| 63) 2-nitropropane | 4.65 | 41 | 55779 | 54.86 | ug/L | | 99 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 431050 | 245.10 | ug/L | | 99 |
| 65) methyl methacrylate | 4.34 | 100 | 46323 | 56.29 | ug/L | # | 89 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 52177 | 52.58 | ug/L | | 99 |
| 67) dibromomethane | 4.40 | 93 | 83848 | 48.80 | ug/L | | 95 |
| 68) methylcyclohexane | 4.33 | 83 | 230385 | 54.14 | ug/L | | 99 |
| 69) bromodichloromethane | 4.50 | 83 | 158081 | 53.94 | ug/L | | 99 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 184119 | 54.22 | ug/L | | 97 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 294266 | 211.64 | ug/L | | 97 |
| 72) 3-methyl-1-butanol | 4.91 | 70 | 121836 | 1129.99 | ug/L | | 98 |
| 75) toluene | 5.04 | 92 | 320831 | 52.02 | ug/L | | 97 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 168929 | 54.77 | ug/L | | 99 |
| 77) ethyl methacrylate | 5.22 | 69 | 155095 | 49.94 | ug/L | | 99 |
| 78) 1,1,2-trichloroethane | 5.34 | 83 | 97000 | 51.92 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 181358 | 50.68 | ug/L | | 98 |
| 81) 2-hexanone | 5.49 | 58 | 300763 | 207.24 | ug/L | | 99 |
| 82) butyl acetate | 5.57 | 56 | 105148 | 50.96 | ug/L | | 98 |
| 83) dibromochloromethane | 5.63 | 129 | 140790 | 57.35 | ug/L | | 100 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 133487 | 53.55 | ug/L | | 98 |
| 85) n-butyl ether | 6.15 | 57 | 506416 | 50.68 | ug/L | | 99 |
| 86) chlorobenzene | 6.10 | 112 | 356168 | 50.90 | ug/L | | 99 |
| 87) 1,1,1,2-tetrachloroethane | 6.16 | 131 | 133651 | 55.55 | ug/L | | 98 |
| 88) ethylbenzene | 6.16 | 91 | 607788 | 51.43 | ug/L | | 100 |
| 89) m,p-xylene | 6.27 | 106 | 488844 | 105.10 | ug/L | | 98 |
| 90) o-xylene | 6.57 | 91 | 464494 | 52.58 | ug/L | | 100 |
| 91) styrene | 6.59 | 104 | 392224 | 52.32 | ug/L | | 99 |
| 92) butyl acrylate | 6.51 | 55 | 266323 | 52.57 | ug/L | | 98 |
| 93) n-amyl acetate | 6.69 | 70 | 88673 | 52.61 | ug/L | | 99 |
| 94) bromoform | 6.74 | 173 | 95717 | 58.72 | ug/L | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200572.D
Acq On : 29 Sep 2022 4:25 am
Operator : PrashanS
Sample : ICV8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 29 14:02:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

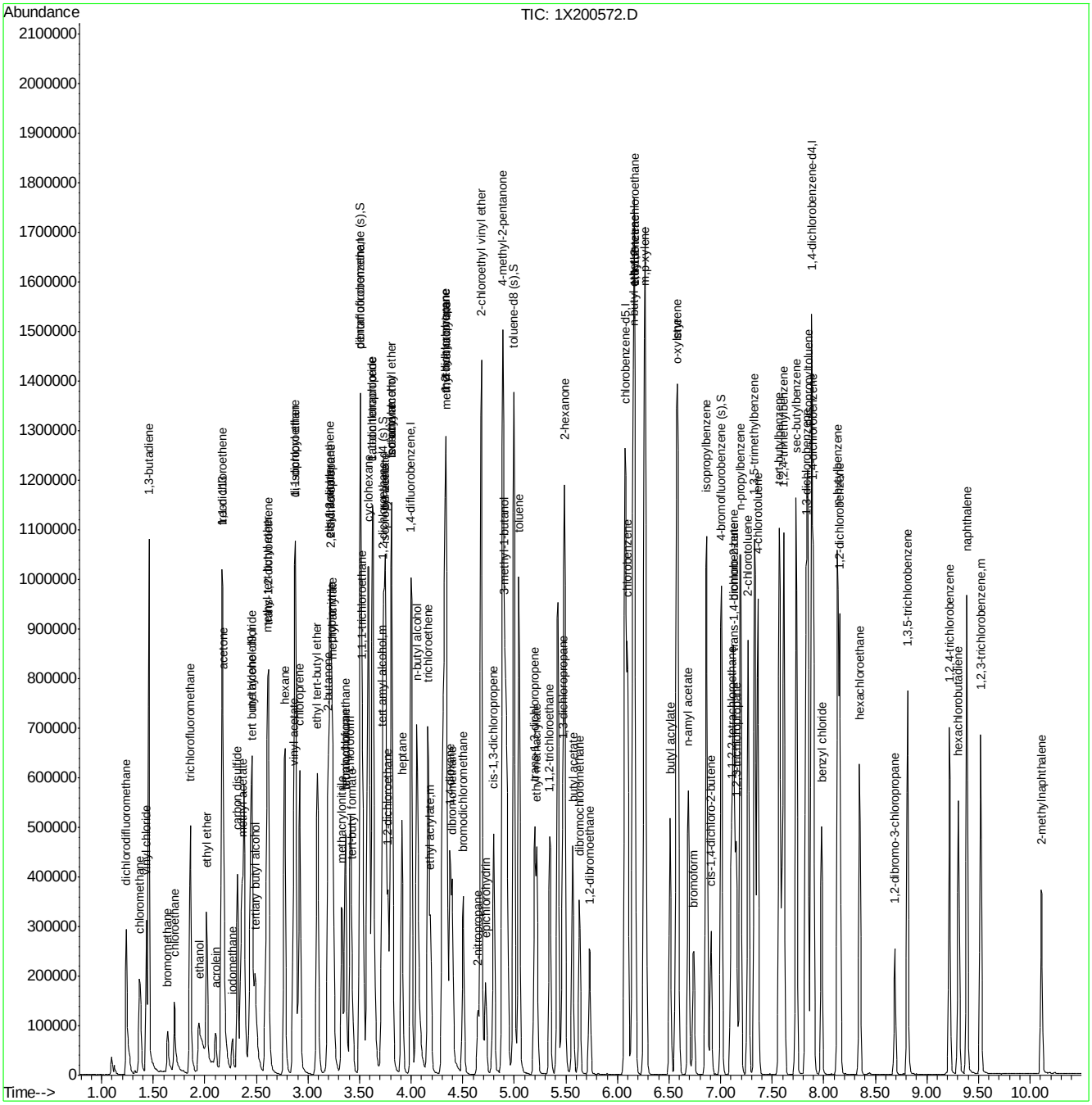
| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 95) isopropylbenzene | 6.86 | 105 | 613390 | 53.26 ug/L | 100 |
| 96) cis-1,4-dichloro-2-butene | 6.91 | 88 | 49202 | 43.63 ug/L | 99 |
| 99) bromobenzene | 7.13 | 156 | 160325 | 50.92 ug/L | 96 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 166782 | 53.49 ug/L | 99 |
| 101) trans-1,4-dichloro-2-buten | 7.14 | 53 | 51103 | 56.33 ug/L | 97 |
| 102) 1,2,3-trichloropropane | 7.15 | 110 | 52867 | 51.36 ug/L | 97 |
| 103) n-propylbenzene | 7.19 | 91 | 680262 | 52.25 ug/L | 99 |
| 104) 2-chlorotoluene | 7.27 | 126 | 150278 | 51.97 ug/L | 98 |
| 105) 4-chlorotoluene | 7.36 | 91 | 388862 | 51.26 ug/L | 99 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 452045 | 53.18 ug/L | 99 |
| 107) tert-butylbenzene | 7.57 | 119 | 445881m | 53.91 ug/L | |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 445603 | 51.75 ug/L | 100 |
| 109) sec-butylbenzene | 7.73 | 105 | 610221 | 53.65 ug/L | 99 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 291641 | 51.76 ug/L | 99 |
| 111) p-isopropyltoluene | 7.85 | 119 | 517243 | 53.65 ug/L | 100 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 291047 | 50.12 ug/L | 99 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 275182 | 52.23 ug/L | 99 |
| 114) benzyl chloride | 7.98 | 91 | 241622 | 51.85 ug/L | 99 |
| 115) n-butylbenzene | 8.13 | 92 | 227418 | 53.62 ug/L | 100 |
| 116) 1,2-dibromo-3-chloropropan | 8.69 | 157 | 51840 | 55.51 ug/L | 99 |
| 117) 1,3,5-trichlorobenzene | 8.81 | 180 | 174428 | 51.52 ug/L | 98 |
| 118) hexachlorobutadiene | 9.30 | 225 | 65334 | 54.14 ug/L | 99 |
| 119) naphthalene | 9.39 | 128 | 550776 | 49.72 ug/L | 100 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 153935 | 52.20 ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 9.52 | 180 | 148252 | 51.60 ug/L | 99 |
| 122) hexachloroethane | 8.35 | 201 | 65533 | 51.89 ug/L | 98 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 149736 | 27.67 ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200572.D
Acq On : 29 Sep 2022 4:25 am
Operator : PrashanS
Sample : ICV8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 29 14:02:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | V1X8636-ICV8636 | **Method:** | SW846 8260D |
| **Lab FileID:** | 1X200572.D | **Analyst approved:** | 09/29/22 14:18 Bridget Kelly |
| **Injection Time:** | 09/29/22 04:25 | **Supervisor approved:** | 09/29/22 15:49 Kanya Veerawat |

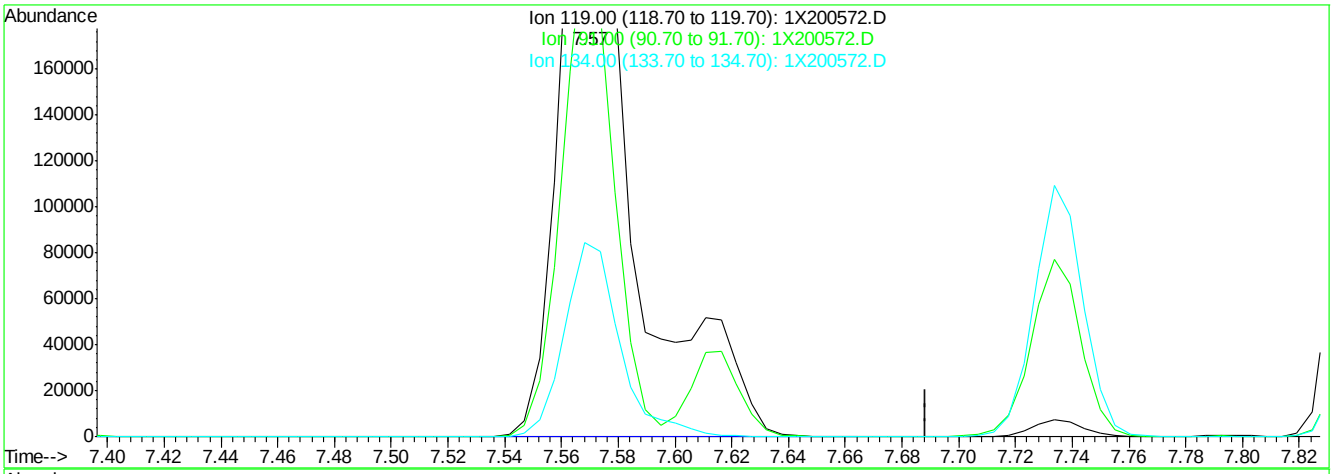
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| tert-Butylbenzene | 98-06-6 | | 7.57 | Overlapping peak |

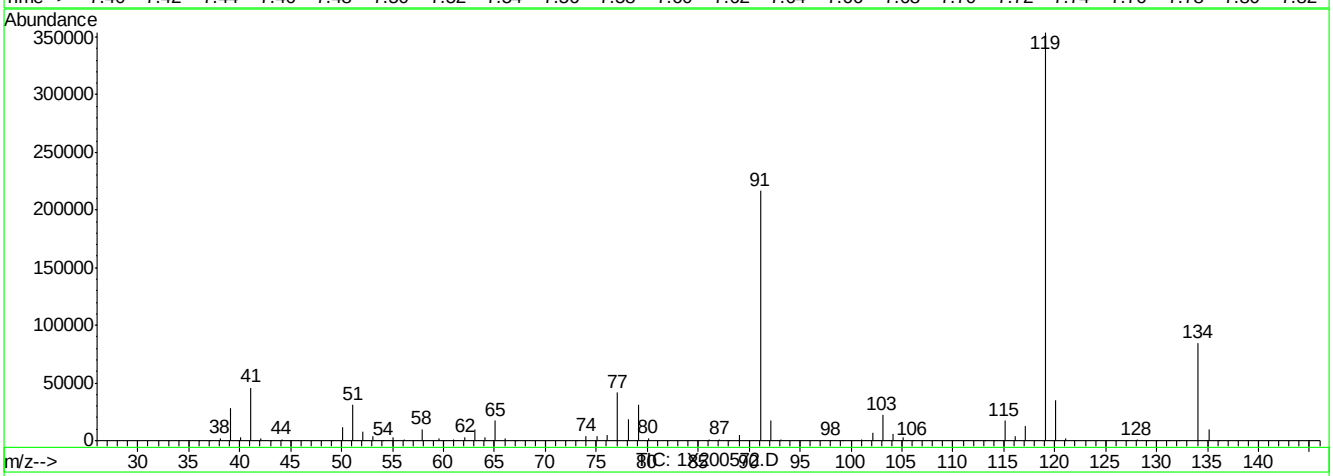
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\VX8636\1X200572.D Vial: 14
Acq On : 29 Sep 2022 4:25 am Operator: PrashanS
Sample : ICV8636-50 Inst : ACC-VOA-M
Misc : MS62283,V1X8636,5,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Quant Time: Sep 29 14:00:40 2022 Results File: M1X8636.RES

Method : C:\MSDCHEM\1\METHODS\M1X8636.M (RTE Integrator)
Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
Last Update : Thu Sep 29 10:06:17 2022
Response via : Multiple Level Calibration




(107) tert-butylbenzene

7.57min 64.72ug/L

response 535333

| Ion | Exp% | Act% |
|---|---|---|
| 119.00 | 100 | 100 |
| 91.00 | 62.50 | 61.20 |
| 134.00 | 24.60 | 23.91 |
| 0.00 | 0.00 | 0.00 |

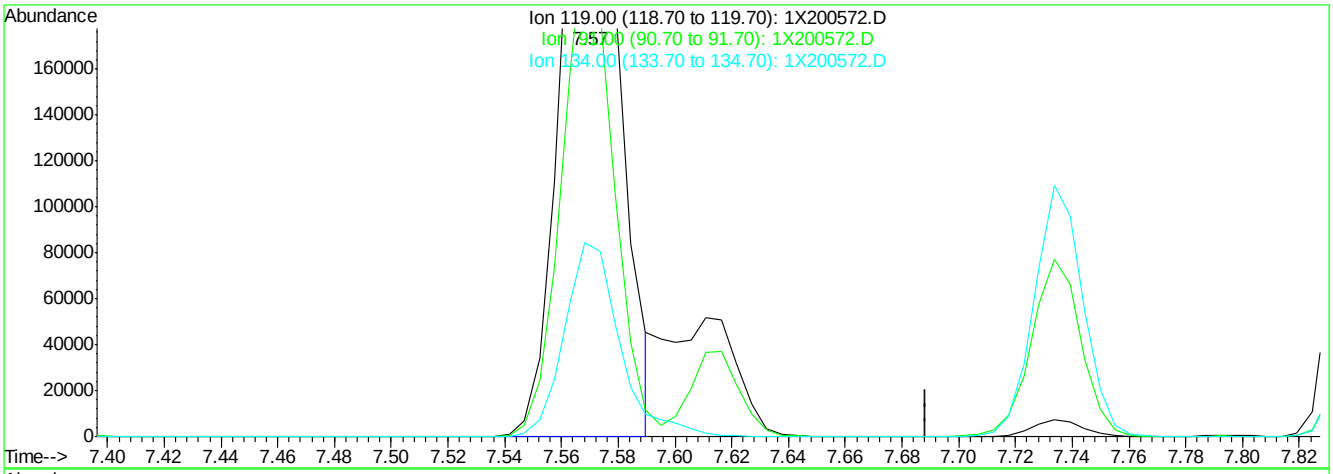
1X200572.D M1X8636.M Thu Sep 29 14:02:19 2022 GCMSX

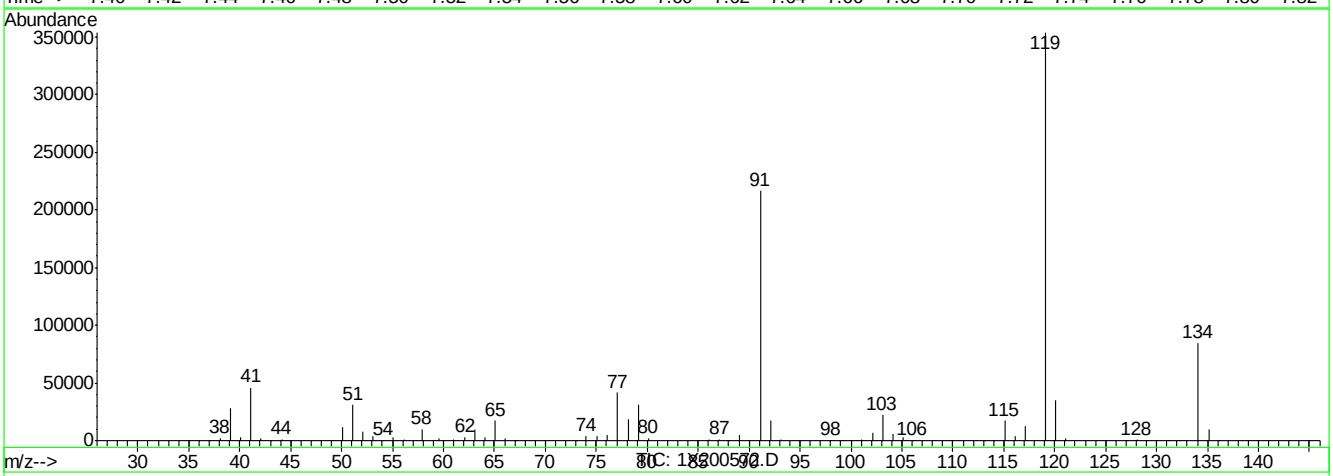
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\VX8636\1X200572.D Vial: 14
Acq On : 29 Sep 2022 4:25 am Operator: PrashanS
Sample : ICV8636-50 Inst : ACC-VOA-M
Misc : MS62283,V1X8636,5,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Quant Time: Sep 29 14:00:40 2022 Results File: M1X8636.RES

Method : C:\MSDCHEM\1\METHODS\M1X8636.M (RTE Integrator)
Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
Last Update : Thu Sep 29 10:06:17 2022
Response via : Multiple Level Calibration




(107) tert-butylbenzene

7.57min 53.91ug/L m

response 445881

| Ion | Exp% | Act% |
|---|---|---|
| 119.00 | 100 | 100 |
| 91.00 | 62.50 | 61.20 |
| 134.00 | 24.60 | 23.91 |
| 0.00 | 0.00 | 0.00 |

1X200572.D M1X8636.M Thu Sep 29 14:02:24 2022 GCMSX

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200574.D
Acq On : 29 Sep 2022 5:02 am
Operator : PrashanS
Sample : ICV8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 14:01:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

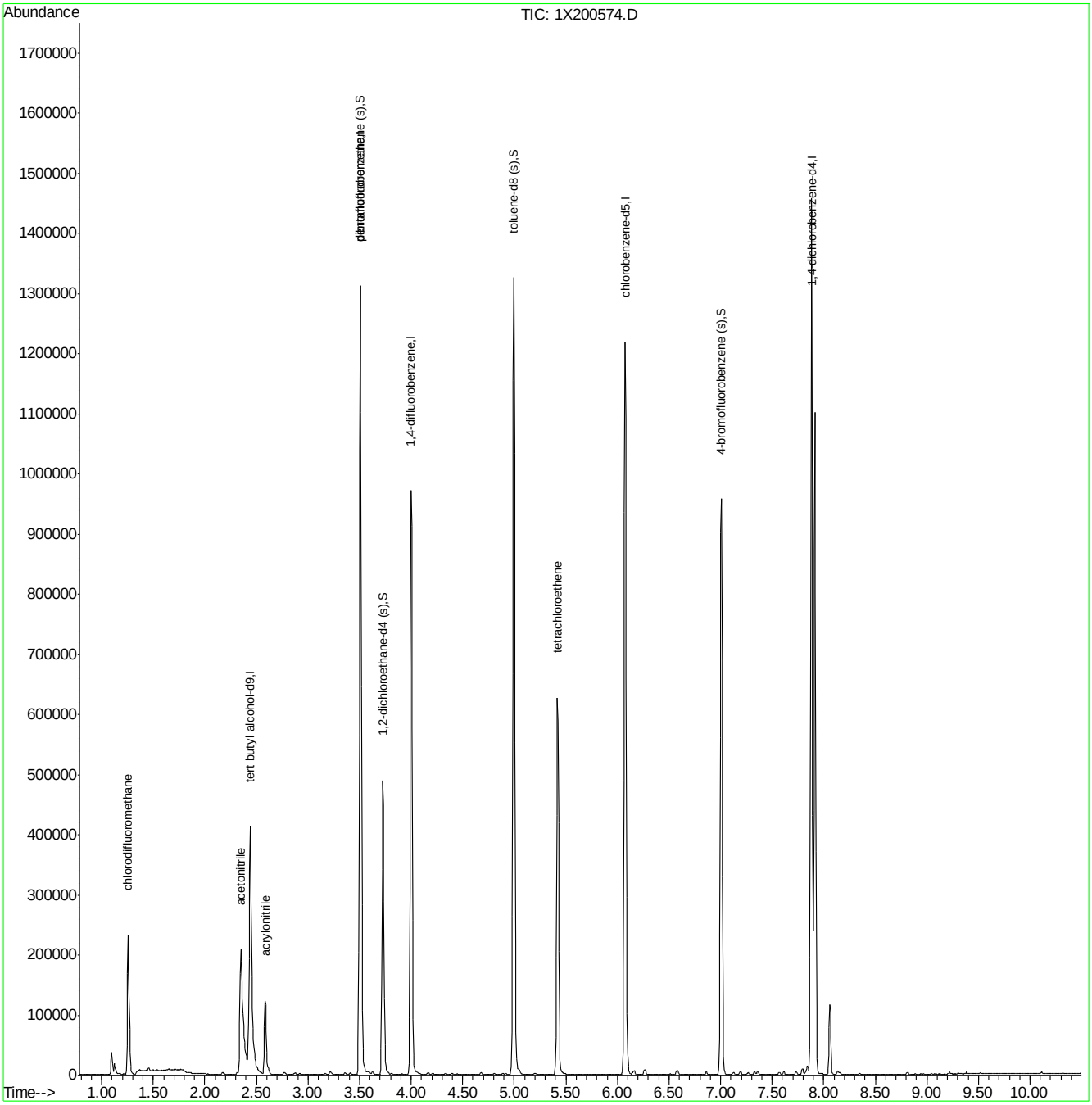
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 360839 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 426110 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 580783 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.07 | 117 | 551871 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 280923 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 194852 | 48.48 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.96% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 225525 | 50.80 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.60% | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 650879 | 49.31 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.62% | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 242608 | 49.74 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.48% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 6) chlorodifluoromethane | 1.25 | 51 | 192908 | 53.09 | ug/L | 96 |
| 19) acetonitrile | 2.35 | 41 | 251572 | 450.22 | ug/L | 97 |
| 25) acrylonitrile | 2.58 | 53 | 63236 | 41.53 | ug/L | 99 |
| 79) tetrachloroethene | 5.42 | 164 | 115359 | 47.59 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200574.D
Acq On : 29 Sep 2022 5:02 am
Operator : PrashanS
Sample : ICV8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 14:01:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200643.d
Acq On : 30 Sep 2022 9:46 am
Operator : taylors
Sample : cc8636-20 Inst : ACC-VOA-MSX
Misc : MS62564,V1X8639,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 30 16:20:42 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.440 | 65 | 377980 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.507 | 168 | 426583 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 3.998 | 114 | 595663 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.074 | 117 | 552869 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 278262 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.507 | 113 | 191913 | 47.69 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.38% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.726 | 65 | 222440 | 48.86 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 97.72% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 654685 | 49.50 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.00% | | | |
| 98) 4-bromofluorobenzene (s) | 7.003 | 95 | 237838 | 49.23 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.46% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 1.943 | 45 | 75629 | 2092.25 | ug/L | 97 |
| 3) tertiary butyl alcohol | 2.488 | 59 | 51013 | 89.20 | ug/L | 96 |
| 4) 1,4-dioxane | 4.377 | 88 | 22329 | 491.22 | ug/L | 92 |
| 6) chlorodifluoromethane | 1.255 | 51 | 53971 | 14.84 | ug/L | 99 |
| 7) dichlorodifluoromethane | 1.233 | 85 | 59271 | 17.35 | ug/L | 98 |
| 8) chloromethane | 1.361 | 50 | 58446 | 16.39 | ug/L | 100 |
| 9) vinyl chloride | 1.431 | 62 | 64427 | 17.12 | ug/L | 99 |
| 10) bromomethane | 1.634 | 96 | 10915 | 20.91 | ug/L | 93 |
| 11) chloroethane | 1.703 | 64 | 27842 | 16.70 | ug/L | 98 |
| 12) trichlorofluoromethane | 1.858 | 101 | 84041 | 17.05 | ug/L | 99 |
| 13) 1,3-butadiene | 1.452 | 54 | 66282 | 22.05 | ug/L | 99 |
| 14) ethyl ether | 2.018 | 74 | 20760 | 16.56 | ug/L | 95 |
| 15) acrolein | 2.103 | 56 | 12538 | 17.68 | ug/L | 99 |
| 16) 1,1-dichloroethene | 2.167 | 96 | 39340 | 16.52 | ug/L | 99 |
| 17) freon 113 | 2.162 | 101 | 49025 | 16.88 | ug/L | 94 |
| 18) acetone | 2.183 | 58 | 26141 | 64.65 | ug/L | 99 |
| 19) acetonitrile | 2.349 | 41 | 98715 | 176.47 | ug/L | 99 |
| 20) iodomethane | 2.263 | 142 | 15988 | 14.63 | ug/L | 98 |
| 21) carbon disulfide | 2.311 | 76 | 92654 | 15.48 | ug/L | 99 |
| 22) methylene chloride | 2.456 | 84 | 38350 | 16.61 | ug/L | 98 |
| 23) methyl acetate | 2.359 | 43 | 55264 | 16.83 | ug/L | 99 |
| 24) methyl tert butyl ether | 2.600 | 73 | 112203 | 16.31 | ug/L | 97 |
| 25) acrylonitrile | 2.584 | 53 | 26576 | 17.43 | ug/L | 97 |
| 26) trans-1,2-dichloroethene | 2.616 | 96 | 42687 | 16.56 | ug/L | 98 |
| 27) hexane | 2.770 | 57 | 70111 | 17.24 | ug/L | 98 |
| 28) di-isopropyl ether | 2.872 | 45 | 141836 | 16.54 | ug/L | 96 |
| 29) 2-butanone | 3.192 | 72 | 31661 | 70.81 | ug/L | 97 |
| 30) 1,1-dichloroethane | 2.872 | 63 | 73278 | 16.38 | ug/L | 98 |
| 31) chloroprene | 2.920 | 53 | 72134 | 17.05 | ug/L | 99 |
| 32) vinyl acetate | 2.856 | 86 | 8907 | 17.93 | ug/L # | 89 |
| 33) ethyl tert-butyl ether | 3.085 | 59 | 127993 | 16.72 | ug/L | 99 |
| 34) ethyl acetate | 3.203 | 45 | 10823 | 16.03 | ug/L | 98 |
| 35) 2,2-dichloropropane | 3.219 | 77 | 65066 | 17.53 | ug/L | 99 |
| 36) cis-1,2-dichloroethene | 3.213 | 96 | 45298 | 16.28 | ug/L | 97 |
| 37) methyl acrylate | 3.240 | 55 | 74577 | 17.72 | ug/L | 99 |
| 38) propionitrile | 3.235 | 54 | 113539 | 178.44 | ug/L | 83 |
| 39) tert-butyl formate | 3.427 | 59 | 29231 | 17.50 | ug/L | 97 |
| 40) bromochloromethane | 3.357 | 128 | 23098 | 16.27 | ug/L | 97 |
| 41) tetrahydrofuran | 3.368 | 42 | 23934 | 16.79 | ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200643.d
Acq On : 30 Sep 2022 9:46 am
Operator : taylors
Sample : cc8636-20 Inst : ACC-VOA-MSX
Misc : MS62564,V1X8639,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 30 16:20:42 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 42) | chloroform | 3.411 | 83 | 72079 | 15.63 | ug/L | | 98 |
| 44) | methacrylonitrile | 3.325 | 67 | 23537 | 17.70 | ug/L | | 97 |
| 45) | 1,1,1-trichloroethane | 3.528 | 97 | 71465 | 16.21 | ug/L | | 93 |
| 46) | cyclohexane | 3.576 | 84 | 65503 | 16.25 | ug/L | | 93 |
| 47) | tert amyl alcohol | 3.715 | 55 | 20493 | 90.36 | ug/L | | 90 |
| 48) | 1,1-dichloropropene | 3.624 | 75 | 59815 | 16.51 | ug/L | | 98 |
| 49) | isobutyl alcohol | 3.811 | 42 | 9817 | 171.89 | ug/L | # | 79 |
| 50) | carbon tetrachloride | 3.624 | 117 | 60540 | 15.54 | ug/L | | 98 |
| 51) | isopropyl acetate | 3.736 | 87 | 10921 | 17.61 | ug/L | # | 71 |
| 54) | iso-octane | 3.806 | 57 | 139191 | 16.84 | ug/L | | 99 |
| 55) | epichlorohydrin | 4.718 | 57 | 39349 | 95.01 | ug/L | | 95 |
| 56) | n-butyl alcohol | 4.051 | 56 | 129650 | 975.50 | ug/L | | 98 |
| 57) | benzene | 3.752 | 78 | 164387 | 16.45 | ug/L | | 99 |
| 58) | tert-amyl methyl ether | 3.811 | 73 | 112649 | 17.09 | ug/L | | 99 |
| 59) | heptane | 3.907 | 57 | 27351 | 18.36 | ug/L | | 97 |
| 60) | 1,2-dichloroethane | 3.774 | 62 | 60253 | 15.99 | ug/L | | 98 |
| 61) | trichloroethene | 4.163 | 130 | 52747 | 16.95 | ug/L | | 98 |
| 62) | ethyl acrylate | 4.190 | 55 | 74165 | 18.23 | ug/L | | 99 |
| 63) | 2-nitropropane | 4.644 | 41 | 16577 | 16.56 | ug/L | | 93 |
| 64) | 2-chloroethyl vinyl ether | 4.676 | 63 | 157569 | 91.01 | ug/L | | 98 |
| 65) | methyl methacrylate | 4.345 | 100 | 14279 | 17.63 | ug/L | # | 78 |
| 66) | 1,2-dichloropropane | 4.334 | 76 | 16443 | 16.83 | ug/L | | 100 |
| 67) | dibromomethane | 4.398 | 93 | 27337 | 16.16 | ug/L | | 96 |
| 68) | methylcyclohexane | 4.323 | 83 | 70851 | 16.91 | ug/L | | 99 |
| 69) | bromodichloromethane | 4.505 | 83 | 47348 | 16.41 | ug/L | | 98 |
| 70) | cis-1,3-dichloropropene | 4.798 | 75 | 58128 | 17.39 | ug/L | | 100 |
| 71) | 4-methyl-2-pentanone | 4.889 | 58 | 99344 | 72.58 | ug/L | | 96 |
| 72) | 3-methyl-1-butanol | 4.911 | 70 | 39738 | 374.40 | ug/L | | 96 |
| 75) | toluene | 5.044 | 92 | 103517 | 17.10 | ug/L | | 99 |
| 76) | trans-1,3-dichloropropene | 5.193 | 75 | 52307 | 17.28 | ug/L | | 99 |
| 77) | ethyl methacrylate | 5.215 | 69 | 53609 | 17.59 | ug/L | | 97 |
| 78) | 1,1,2-trichloroethane | 5.343 | 83 | 31595 | 17.23 | ug/L | | 98 |
| 79) | tetrachloroethene | 5.418 | 164 | 42702 | 17.59 | ug/L | | 95 |
| 80) | 1,3-dichloropropane | 5.466 | 76 | 59784 | 17.02 | ug/L | | 98 |
| 81) | 2-hexanone | 5.487 | 58 | 101036 | 70.92 | ug/L | | 99 |
| 82) | butyl acetate | 5.562 | 56 | 33797 | 16.69 | ug/L | | 100 |
| 83) | dibromochloromethane | 5.631 | 129 | 39617 | 16.44 | ug/L | | 97 |
| 84) | 1,2-dibromoethane | 5.727 | 107 | 44029 | 18.00 | ug/L | | 100 |
| 85) | n-butyl ether | 6.149 | 57 | 164606 | 16.78 | ug/L | | 100 |
| 86) | chlorobenzene | 6.101 | 112 | 116577 | 16.97 | ug/L | | 98 |
| 87) | 1,1,1,2-tetrachloroethane | 6.159 | 131 | 39485 | 16.72 | ug/L | | 95 |
| 88) | ethylbenzene | 6.165 | 91 | 195483 | 16.85 | ug/L | | 99 |
| 89) | m,p-xylene | 6.266 | 106 | 153844 | 33.70 | ug/L | | 99 |
| 90) | o-xylene | 6.570 | 91 | 146827 | 16.93 | ug/L | | 99 |
| 91) | styrene | 6.586 | 104 | 124587 | 16.93 | ug/L | | 97 |
| 92) | butyl acrylate | 6.512 | 55 | 86344 | 17.36 | ug/L | | 98 |
| 93) | n-amyl acetate | 6.688 | 70 | 29686 | 17.94 | ug/L | | 100 |
| 94) | bromoform | 6.736 | 173 | 25861 | 16.16 | ug/L | | 95 |
| 95) | isopropylbenzene | 6.859 | 105 | 195742 | 17.32 | ug/L | | 99 |
| 96) | cis-1,4-dichloro-2-butene | 6.907 | 88 | 8466 | 9.96 | ug/L | # | 88 |
| 99) | bromobenzene | 7.120 | 156 | 51957 | 17.01 | ug/L | | 96 |
| 100) | 1,1,2,2-tetrachloroethane | 7.104 | 83 | 56971 | 18.83 | ug/L | | 99 |
| 101) | trans-1,4-dichloro-2-b... | 7.131 | 53 | 9671 | 10.99 | ug/L | | 83 |
| 102) | 1,2,3-trichloropropane | 7.152 | 110 | 18138 | 18.16 | ug/L | | 91 |
| 103) | n-propylbenzene | 7.189 | 91 | 217280 | 17.20 | ug/L | | 99 |
| 104) | 2-chlorotoluene | 7.264 | 126 | 48827 | 17.41 | ug/L | | 95 |
| 105) | 4-chlorotoluene | 7.360 | 91 | 124550 | 16.93 | ug/L | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200643.d
Acq On : 30 Sep 2022 9:46 am
Operator : taylors
Sample : cc8636-20 Inst : ACC-VOA-MSX
Misc : MS62564,V1X8639,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 30 16:20:42 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 106) 1,3,5-trimethylbenzene | 7.328 | 105 | 143708 | 17.43 | ug/L | | 100 |
| 107) tert-butylbenzene | 7.568 | 119 | 137508 | 17.14 | ug/L | | 99 |
| 108) 1,2,4-trimethylbenzene | 7.611 | 105 | 140854 | 16.86 | ug/L | | 98 |
| 109) sec-butylbenzene | 7.734 | 105 | 193951 | 17.58 | ug/L | | 98 |
| 110) 1,3-dichlorobenzene | 7.830 | 146 | 94420 | 17.27 | ug/L | | 98 |
| 111) p-isopropyltoluene | 7.846 | 119 | 164914 | 17.63 | ug/L | | 99 |
| 112) 1,4-dichlorobenzene | 7.899 | 146 | 96579 | 17.14 | ug/L | | 99 |
| 113) 1,2-dichlorobenzene | 8.155 | 146 | 89608 | 17.53 | ug/L | | 100 |
| 114) benzyl chloride | 7.979 | 91 | 91365 | 20.21 | ug/L | | 99 |
| 115) n-butylbenzene | 8.134 | 92 | 73104 | 17.77 | ug/L | | 99 |
| 116) 1,2-dibromo-3-chloropr... | 8.689 | 157 | 15985 | 17.64 | ug/L | | 98 |
| 117) 1,3,5-trichlorobenzene | 8.812 | 180 | 58344 | 17.76 | ug/L | | 98 |
| 118) hexachlorobutadiene | 9.303 | 225 | 21495 | 18.36 | ug/L | | 97 |
| 119) naphthalene | 9.383 | 128 | 190432 | 17.72 | ug/L | | 98 |
| 120) 1,2,4-trichlorobenzene | 9.217 | 180 | 50622 | 17.69 | ug/L | | 98 |
| 121) 1,2,3-trichlorobenzene | 9.522 | 180 | 49102 | 17.62 | ug/L | | 97 |
| 122) hexachloroethane | 8.347 | 201 | 15531 | 13.67 | ug/L | # | 68 |
| 123) 2-methylnaphthalene | 10.109 | 142 | 47319 | 9.01 | ug/L | | 98 |

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

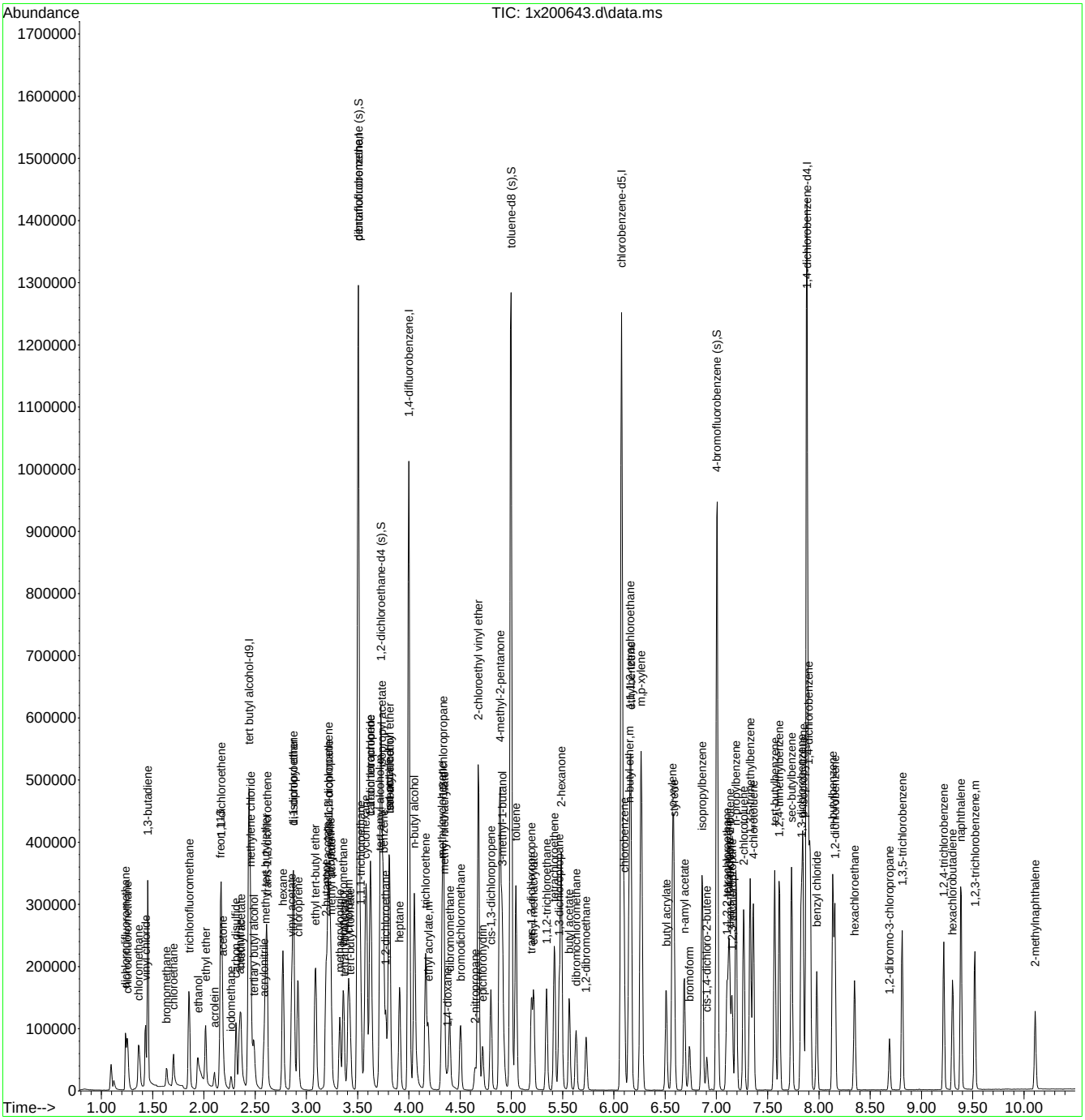
7.6.13

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v1x8639\
Data File : 1x200643.d
Acq On : 30 Sep 2022 9:46 am
Operator : taylors
Sample : cc8636-20 Inst : ACC-VOA-MSX
Misc : MS62564,V1X8639,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 30 16:20:42 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\luckyc\04 oct 2022\v1x8640\
Data File : 1x200674.d
Acq On : 30 Sep 2022 9:48 pm
Operator : taylors
Sample : CC8636-50 Inst : ACC-VOA-MSX
Misc : MS62505,V1X8640,5,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 01 07:48:18 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.450 | 65 | 381173 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.512 | 168 | 438136 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.008 | 114 | 603589 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.085 | 117 | 568961 | 50.00 | ug/L | 0.01 |
| 97) 1,4-dichlorobenzene-d4 | 7.888 | 152 | 287677 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.517 | 113 | 194095 | 46.96 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.92% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.736 | 65 | 221455 | 48.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 96.00% | | | |
| 74) toluene-d8 (s) | 5.001 | 98 | 677146 | 49.76 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.52% | | | |
| 98) 4-bromofluorobenzene (s) | 7.013 | 95 | 244579 | 48.97 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.94% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 1.954 | 45 | 204661 | 5614.44 | ug/L | 97 |
| 3) tertiary butyl alcohol | 2.498 | 59 | 143279 | 248.45 | ug/L | 97 |
| 4) 1,4-dioxane | 4.387 | 88 | 60460 | 1318.92 | ug/L | 92 |
| 6) chlorodifluoromethane | 1.260 | 51 | 110017 | 29.45 | ug/L | 97 |
| 7) dichlorodifluoromethane | 1.244 | 85 | 152749 | 43.53 | ug/L | 100 |
| 8) chloromethane | 1.372 | 50 | 153970 | 42.04 | ug/L | 99 |
| 9) vinyl chloride | 1.436 | 62 | 170978 | 44.23 | ug/L | 99 |
| 10) bromomethane | 1.644 | 96 | 19427 | 36.23 | ug/L | 99 |
| 11) chloroethane | 1.708 | 64 | 71020 | 41.48 | ug/L | 99 |
| 12) trichlorofluoromethane | 1.863 | 101 | 222364 | 43.92 | ug/L | 99 |
| 13) 1,3-butadiene | 1.463 | 54 | 152967 | 49.55 | ug/L | 99 |
| 14) ethyl ether | 2.028 | 74 | 48509 | 37.68 | ug/L | 98 |
| 15) acrolein | 2.114 | 56 | 31610 | 43.40 | ug/L | 100 |
| 16) 1,1-dichloroethene | 2.178 | 96 | 88835 | 36.32 | ug/L | 97 |
| 17) freon 113 | 2.173 | 101 | 111823 | 37.49 | ug/L | 97 |
| 18) acetone | 2.189 | 58 | 66294 | 159.62 | ug/L | 99 |
| 19) acetonitrile | 2.359 | 41 | 239166 | 416.27 | ug/L | 100 |
| 20) iodomethane | 2.274 | 142 | 43327 | 38.61 | ug/L | 99 |
| 21) carbon disulfide | 2.322 | 76 | 203066 | 33.04 | ug/L | 100 |
| 22) methylene chloride | 2.466 | 84 | 91269 | 38.49 | ug/L | 99 |
| 23) methyl acetate | 2.370 | 43 | 137259 | 40.69 | ug/L | 99 |
| 24) methyl tert butyl ether | 2.610 | 73 | 286140 | 40.51 | ug/L | 99 |
| 25) acrylonitrile | 2.594 | 53 | 70138 | 44.80 | ug/L | 98 |
| 26) trans-1,2-dichloroethene | 2.626 | 96 | 102672 | 38.77 | ug/L | 98 |
| 27) hexane | 2.781 | 57 | 152240 | 36.44 | ug/L | 99 |
| 28) di-isopropyl ether | 2.882 | 45 | 371577 | 42.20 | ug/L | 98 |
| 29) 2-butanone | 3.203 | 72 | 84600 | 184.22 | ug/L | 98 |
| 30) 1,1-dichloroethane | 2.882 | 63 | 182278 | 39.68 | ug/L | 100 |
| 31) chloroprene | 2.925 | 53 | 175585 | 40.40 | ug/L | 100 |
| 32) vinyl acetate | 2.866 | 86 | 22865 | 44.81 | ug/L | 96 |
| 33) ethyl tert-butyl ether | 3.096 | 59 | 334880 | 42.58 | ug/L | 99 |
| 34) ethyl acetate | 3.213 | 45 | 31639 | 45.63 | ug/L | 97 |
| 35) 2,2-dichloropropane | 3.229 | 77 | 146896 | 38.52 | ug/L | 97 |
| 36) cis-1,2-dichloroethene | 3.219 | 96 | 114803 | 40.17 | ug/L | 92 |
| 37) methyl acrylate | 3.245 | 55 | 196003 | 45.36 | ug/L | 96 |
| 38) propionitrile | 3.240 | 54 | 297279 | 454.88 | ug/L # | 66 |
| 39) tert-butyl formate | 3.432 | 59 | 77191 | 45.00 | ug/L | 94 |
| 40) bromochloromethane | 3.368 | 128 | 58970 | 40.45 | ug/L | 95 |
| 41) tetrahydrofuran | 3.373 | 42 | 61317 | 41.87 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\luckyc\04 oct 2022\v1x8640\
Data File : 1x200674.d
Acq On : 30 Sep 2022 9:48 pm
Operator : taylors
Sample : CC8636-50 Inst : ACC-VOA-MSX
Misc : MS62505,V1X8640,5,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 01 07:48:18 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 42) | chloroform | 3.416 | 83 | 189667 | 40.04 | ug/L | | 99 |
| 44) | methacrylonitrile | 3.336 | 67 | 63317 | 46.36 | ug/L | | 99 |
| 45) | 1,1,1-trichloroethane | 3.533 | 97 | 181542 | 40.08 | ug/L | | 94 |
| 46) | cyclohexane | 3.587 | 84 | 177764 | 42.93 | ug/L | | 100 |
| 47) | tert amyl alcohol | 3.726 | 55 | 58340 | 250.46 | ug/L | | 90 |
| 48) | 1,1-dichloropropene | 3.630 | 75 | 150615 | 40.47 | ug/L | | 98 |
| 49) | isobutyl alcohol | 3.816 | 42 | 24232 | 413.10 | ug/L | # | 92 |
| 50) | carbon tetrachloride | 3.635 | 117 | 158191 | 39.54 | ug/L | | 99 |
| 51) | isopropyl acetate | 3.747 | 87 | 31248 | 49.07 | ug/L | | 99 |
| 54) | iso-octane | 3.816 | 57 | 339044 | 40.49 | ug/L | | 99 |
| 55) | epichlorohydrin | 4.729 | 57 | 106508 | 253.79 | ug/L | | 97 |
| 56) | n-butyl alcohol | 4.062 | 56 | 373330 | 2772.08 | ug/L | | 97 |
| 57) | benzene | 3.758 | 78 | 416394 | 41.12 | ug/L | | 100 |
| 58) | tert-amyl methyl ether | 3.816 | 73 | 312442 | 46.77 | ug/L | | 100 |
| 59) | heptane | 3.918 | 57 | 61624 | 40.81 | ug/L | | 99 |
| 60) | 1,2-dichloroethane | 3.784 | 62 | 157357 | 41.20 | ug/L | | 100 |
| 61) | trichloroethene | 4.174 | 130 | 136768 | 43.38 | ug/L | | 99 |
| 62) | ethyl acrylate | 4.195 | 55 | 208072 | 50.48 | ug/L | | 99 |
| 63) | 2-nitropropane | 4.654 | 41 | 49817 | 49.12 | ug/L | | 99 |
| 64) | 2-chloroethyl vinyl ether | 4.686 | 63 | 435345 | 248.16 | ug/L | | 99 |
| 65) | methyl methacrylate | 4.350 | 100 | 41092 | 50.06 | ug/L | # | 88 |
| 66) | 1,2-dichloropropane | 4.345 | 76 | 46008 | 46.48 | ug/L | | 95 |
| 67) | dibromomethane | 4.403 | 93 | 73961 | 43.15 | ug/L | | 98 |
| 68) | methylcyclohexane | 4.334 | 83 | 178986 | 42.16 | ug/L | | 98 |
| 69) | bromodichloromethane | 4.510 | 83 | 137354 | 46.99 | ug/L | | 98 |
| 70) | cis-1,3-dichloropropene | 4.809 | 75 | 161021 | 47.54 | ug/L | | 99 |
| 71) | 4-methyl-2-pentanone | 4.894 | 58 | 286889 | 206.85 | ug/L | | 99 |
| 72) | 3-methyl-1-butanol | 4.916 | 70 | 123917 | 1152.18 | ug/L | | 99 |
| 75) | toluene | 5.049 | 92 | 279259 | 44.82 | ug/L | | 98 |
| 76) | trans-1,3-dichloropropene | 5.204 | 75 | 148910 | 47.79 | ug/L | | 100 |
| 77) | ethyl methacrylate | 5.225 | 69 | 155970 | 49.72 | ug/L | | 100 |
| 78) | 1,1,2-trichloroethane | 5.348 | 83 | 90952 | 48.19 | ug/L | | 98 |
| 79) | tetrachloroethene | 5.428 | 164 | 113436 | 45.40 | ug/L | | 99 |
| 80) | 1,3-dichloropropane | 5.476 | 76 | 166673 | 46.10 | ug/L | | 99 |
| 81) | 2-hexanone | 5.492 | 58 | 294488 | 200.87 | ug/L | | 98 |
| 82) | butyl acetate | 5.572 | 56 | 99847 | 47.91 | ug/L | | 99 |
| 83) | dibromochloromethane | 5.636 | 129 | 123252 | 49.70 | ug/L | | 99 |
| 84) | 1,2-dibromoethane | 5.738 | 107 | 122643 | 48.71 | ug/L | | 95 |
| 85) | n-butyl ether | 6.154 | 57 | 465324 | 46.10 | ug/L | | 100 |
| 86) | chlorobenzene | 6.106 | 112 | 325597 | 46.06 | ug/L | | 98 |
| 87) | 1,1,1,2-tetrachloroethane | 6.170 | 131 | 120706 | 49.66 | ug/L | | 99 |
| 88) | ethylbenzene | 6.170 | 91 | 538740 | 45.13 | ug/L | | 99 |
| 89) | m,p-xylene | 6.271 | 106 | 424368 | 90.32 | ug/L | | 99 |
| 90) | o-xylene | 6.576 | 91 | 408016 | 45.72 | ug/L | | 99 |
| 91) | styrene | 6.592 | 104 | 352784 | 46.59 | ug/L | | 99 |
| 92) | butyl acrylate | 6.517 | 55 | 258012 | 50.41 | ug/L | | 97 |
| 93) | n-amyl acetate | 6.693 | 70 | 86141 | 50.60 | ug/L | | 100 |
| 94) | bromoform | 6.746 | 173 | 85861 | 52.14 | ug/L | | 99 |
| 95) | isopropylbenzene | 6.869 | 105 | 545307 | 46.88 | ug/L | | 100 |
| 96) | cis-1,4-dichloro-2-butene | 6.912 | 88 | 24605 | 23.01 | ug/L | | 97 |
| 99) | bromobenzene | 7.131 | 156 | 147105 | 46.58 | ug/L | | 97 |
| 100) | 1,1,2,2-tetrachloroethane | 7.109 | 83 | 165598 | 52.95 | ug/L | | 98 |
| 101) | trans-1,4-dichloro-2-b... | 7.141 | 53 | 25672 | 28.22 | ug/L | | 85 |
| 102) | 1,2,3-trichloropropane | 7.157 | 110 | 52439 | 50.79 | ug/L | | 95 |
| 103) | n-propylbenzene | 7.200 | 91 | 607341 | 46.51 | ug/L | | 97 |
| 104) | 2-chlorotoluene | 7.275 | 126 | 136027 | 46.91 | ug/L | | 100 |
| 105) | 4-chlorotoluene | 7.365 | 91 | 354857 | 46.64 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\luckyc\04 oct 2022\v1x8640\
Data File : 1x200674.d
Acq On : 30 Sep 2022 9:48 pm
Operator : taylors
Sample : CC8636-50 Inst : ACC-VOA-MSX
Misc : MS62505,V1X8640,5,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 01 07:48:18 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

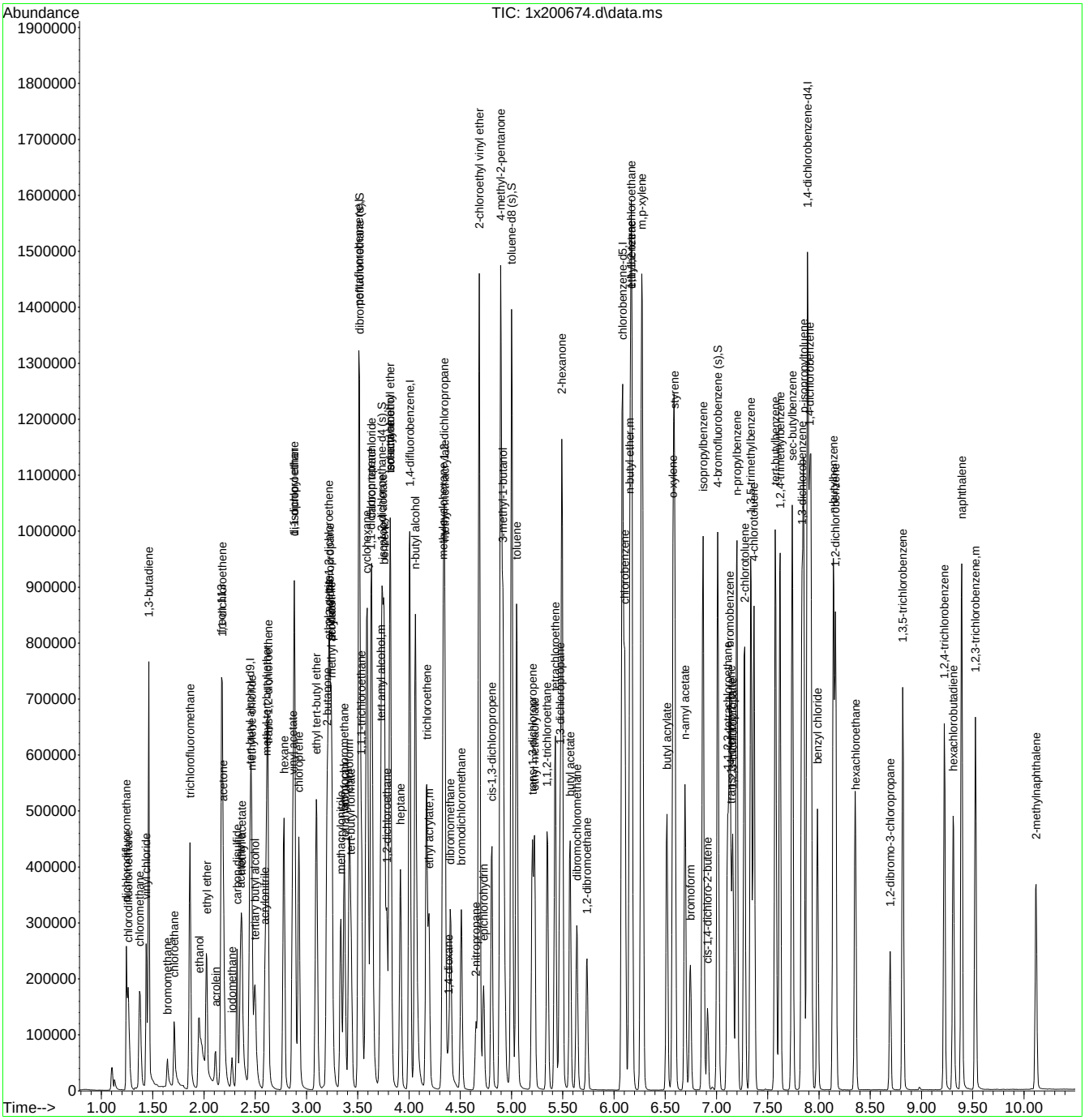
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) 1,3,5-trimethylbenzene | 7.333 | 105 | 409402 | 48.02 | ug/L | 100 |
| 107) tert-butylbenzene | 7.574 | 119 | 392969 | 47.37 | ug/L | 99 |
| 108) 1,2,4-trimethylbenzene | 7.622 | 105 | 410003 | 47.48 | ug/L | 99 |
| 109) sec-butylbenzene | 7.739 | 105 | 550881 | 48.29 | ug/L | 99 |
| 110) 1,3-dichlorobenzene | 7.835 | 146 | 266851 | 47.22 | ug/L | 99 |
| 111) p-isopropyltoluene | 7.851 | 119 | 470330 | 48.64 | ug/L | 100 |
| 112) 1,4-dichlorobenzene | 7.910 | 146 | 269761 | 46.32 | ug/L | 98 |
| 113) 1,2-dichlorobenzene | 8.161 | 146 | 258155 | 48.85 | ug/L | 98 |
| 114) benzyl chloride | 7.984 | 91 | 240449 | 51.45 | ug/L | 100 |
| 115) n-butylbenzene | 8.139 | 92 | 206087 | 48.44 | ug/L | 99 |
| 116) 1,2-dibromo-3-chloropr... | 8.694 | 157 | 49324 | 52.66 | ug/L | 99 |
| 117) 1,3,5-trichlorobenzene | 8.817 | 180 | 162418 | 47.84 | ug/L | 97 |
| 118) hexachlorobutadiene | 9.308 | 225 | 60320 | 49.84 | ug/L | 99 |
| 119) naphthalene | 9.393 | 128 | 548893 | 49.41 | ug/L | 100 |
| 120) 1,2,4-trichlorobenzene | 9.223 | 180 | 145419 | 49.16 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 9.527 | 180 | 143461 | 49.79 | ug/L | 99 |
| 122) hexachloroethane | 8.358 | 201 | 52155 | 41.45 | ug/L | 96 |
| 123) 2-methylnaphthalene | 10.119 | 142 | 145274 | 26.77 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\luckyc\04 oct 2022\v1x8640\
Data File : 1x200674.d
Acq On : 30 Sep 2022 9:48 pm
Operator : taylors
Sample : CC8636-50 Inst : ACC-VOA-MSX
Misc : MS62505,V1X8640,5,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 01 07:48:18 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/01/22 19:36

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218781.D
Acq On : 31 Jul 2022 5:23 pm
Operator : PrashanS
Sample : IC9511-0.2
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 14:38:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:30:00 2022
QLast Update : Mon Aug 01 14:31:10 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 413095 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 704907 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 942450 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 907713 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 489845 | 50.00 | ug/L | | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 703959 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 327890 | 48.92 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.84% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 439924 | 50.13 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.26% | | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1101058 | 49.31 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.62% | | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 451758 | 50.21 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.42% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 13) trichlorofluoromethane | 5.79 | 101 | 1886 | 0.18 | ug/L | | 75 |
| 20) iodomethane | 6.84 | 142 | 2080 | 0.21 | ug/L | | 73 |
| 24) methyl tert butyl ether | 7.67 | 73 | 3921 | 0.22 | ug/L | | 75 |
| 26) hexane | 8.05 | 57 | 2404 | 0.24 | ug/L | | 94 |
| 27) di-isopropyl ether | 8.25 | 45 | 5687 | 0.23 | ug/L | | 96 |
| 28) ethyl tert-butyl ether | 8.72 | 59 | 4939 | 0.22 | ug/L | | 92 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 2481 | 0.22 | ug/L | | 73 |
| 31) chloroprene | 8.36 | 53 | 2287 | 0.21 | ug/L | | 86 |
| 35) 2,2-dichloropropane | 9.00 | 77 | 2031 | 0.23 | ug/L | | 92 |
| 36) cis-1,2-dichloroethene | 8.98 | 96 | 1141 | 0.18 | ug/L | # | 68 |
| 41) tert-butyl formate | 9.39 | 59 | 1059 | 0.17 | ug/L | | 85 |
| 45) 1,1,1-trichloroethane | 9.61 | 97 | 2008 | 0.20 | ug/L | # | 71 |
| 46) cyclohexane | 9.73 | 84 | 1608 | 0.18 | ug/L | # | 43 |
| 47) 1,1-dichloropropene | 9.79 | 75 | 1870 | 0.23 | ug/L | # | 78 |
| 49) carbon tetrachloride | 9.81 | 117 | 1890 | 0.20 | ug/L | # | 65 |
| 52) 2,2,4-trimethylpentane | 10.11 | 57 | 5838 | 0.23 | ug/L | | 94 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 4313 | 0.23 | ug/L | | 97 |
| 55) benzene | 10.02 | 78 | 4522 | 0.21 | ug/L | | 88 |
| 56) heptane | 10.28 | 57 | 970 | 0.18 | ug/L | # | 73 |
| 59) trichloroethene | 10.75 | 95 | 1268 | 0.20 | ug/L | # | 65 |
| 65) methylcyclohexane | 11.04 | 83 | 2227 | 0.22 | ug/L | # | 72 |
| 66) dibromomethane | 11.15 | 93 | 977 | 0.24 | ug/L | | 94 |
| 67) bromodichloromethane | 11.30 | 83 | 1917 | 0.22 | ug/L | | 89 |
| 69) cis-1,3-dichloropropene | 11.76 | 75 | 1843 | 0.18 | ug/L | | 93 |
| 70) 4-methyl-2-pentanone | 11.87 | 58 | 2482 | 0.79 | ug/L | | 98 |
| 74) toluene | 12.14 | 92 | 3058 | 0.22 | ug/L | # | 79 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 1875 | 0.19 | ug/L | # | 80 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 944 | 0.19 | ug/L | | 91 |
| 79) tetrachloroethene | 12.69 | 166 | 1390 | 0.20 | ug/L | | 84 |
| 80) 1,3-dichloropropane | 12.73 | 76 | 2250 | 0.25 | ug/L | | 76 |
| 82) dibromochloromethane | 12.97 | 129 | 1460 | 0.20 | ug/L | | 91 |
| 83) 1,2-dibromoethane | 13.12 | 107 | 1196 | 0.19 | ug/L | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218781.D
Acq On : 31 Jul 2022 5:23 pm
Operator : PrashanS
Sample : IC9511-0.2
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 14:38:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:30:00 2022
QLast Update : Mon Aug 01 14:31:10 2022
Response via : Initial Calibration

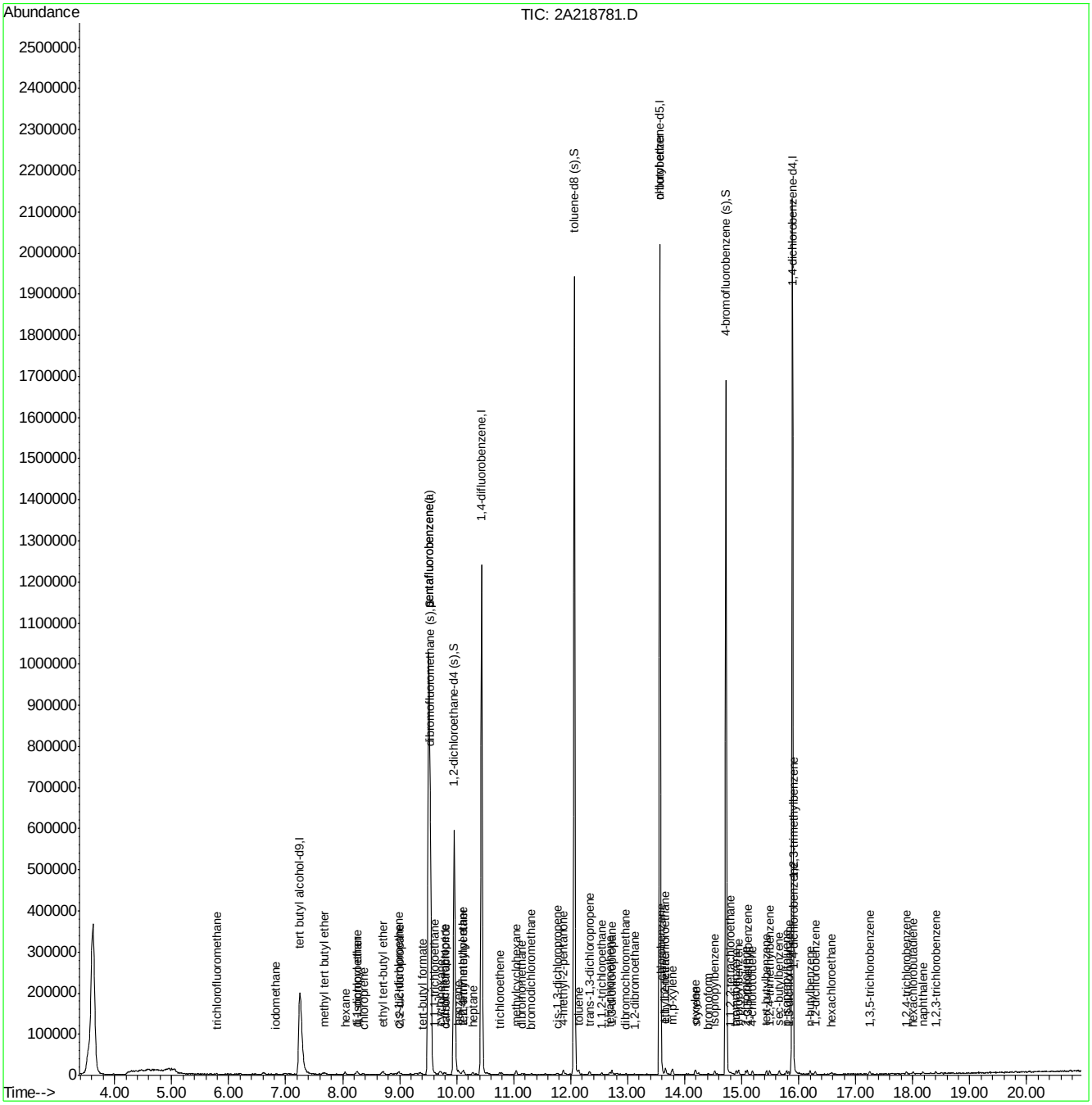
| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 84) n-butyl ether | 13.57 | 57 | 6000m | 0.21 | ug/L | | |
| 85) chlorobenzene | 13.59 | 112 | 2945 | 0.19 | ug/L | | 90 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 1165 | 0.19 | ug/L | # | 78 |
| 87) ethylbenzene | 13.66 | 91 | 5830 | 0.22 | ug/L | | 96 |
| 88) m,p-xylene | 13.78 | 106 | 4185 | 0.40 | ug/L | | 93 |
| 89) o-xylene | 14.19 | 91 | 4811 | 0.22 | ug/L | | 66 |
| 90) styrene | 14.20 | 104 | 3356 | 0.19 | ug/L | | 88 |
| 92) bromoform | 14.41 | 173 | 954 | 0.17 | ug/L | | 84 |
| 94) isopropylbenzene | 14.53 | 105 | 5340 | 0.20 | ug/L | | 91 |
| 98) bromobenzene | 14.90 | 156 | 1847 | 0.25 | ug/L | # | 61 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 1678 | 0.20 | ug/L | | 80 |
| 102) n-propylbenzene | 14.94 | 91 | 6409 | 0.21 | ug/L | | 82 |
| 103) 2-chlorotoluene | 15.07 | 126 | 1582 | 0.24 | ug/L | # | 80 |
| 104) 4-chlorotoluene | 15.18 | 91 | 4087 | 0.21 | ug/L | | 96 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 4373 | 0.20 | ug/L | | 96 |
| 106) tert-butylbenzene | 15.44 | 119 | 3960 | 0.21 | ug/L | | 86 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 4650 | 0.21 | ug/L | | 83 |
| 108) sec-butylbenzene | 15.66 | 105 | 5792 | 0.21 | ug/L | | 94 |
| 109) 1,3-dichlorobenzene | 15.83 | 146 | 2758 | 0.20 | ug/L | | 82 |
| 110) p-isopropyltoluene | 15.79 | 119 | 5326 | 0.22 | ug/L | | 89 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 4974 | 0.22 | ug/L | | 86 |
| 113) 1,4-dichlorobenzene | 15.92 | 146 | 3452 | 0.25 | ug/L | | 96 |
| 114) 1,2-dichlorobenzene | 16.29 | 146 | 2734 | 0.20 | ug/L | | 69 |
| 115) n-butylbenzene | 16.20 | 92 | 2460 | 0.19 | ug/L | # | 71 |
| 117) 1,3,5-trichlorobenzene | 17.25 | 180 | 2195 | 0.20 | ug/L | | 78 |
| 118) 1,2,4-trichlorobenzene | 17.89 | 180 | 1689 | 0.18 | ug/L | | 80 |
| 119) hexachlorobutadiene | 18.00 | 225 | 810 | 0.17 | ug/L | | 77 |
| 120) naphthalene | 18.18 | 128 | 4329 | 0.19 | ug/L | | 94 |
| 121) 1,2,3-trichlorobenzene | 18.41 | 180 | 1498 | 0.17 | ug/L | | 96 |
| 122) hexachloroethane | 16.58 | 201 | 661 | 0.15 | ug/L | | 93 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218781.D
Acq On : 31 Jul 2022 5:23 pm
Operator : PrashanS
Sample : IC9511-0.2
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 14:38:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:30:00 2022
QLast Update : Mon Aug 01 14:31:10 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | V2A9511-IC9511 | **Method:** | SW846 8260D |
| **Lab FileID:** | 2A218781.D | **Analyst approved:** | 08/01/22 15:32 MoHui Huang |
| **Injection Time:** | 07/31/22 17:23 | **Supervisor approved:** | 08/01/22 19:36 Kanya Veerawat |

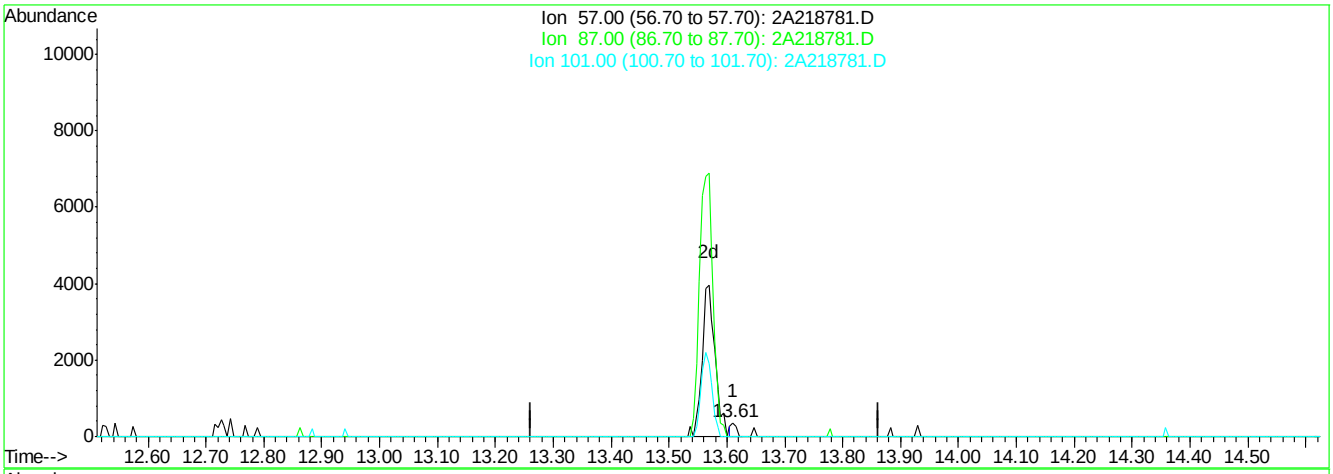
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| n-Butyl Ether | 142-96-1 | | 13.57 | Missed peak |

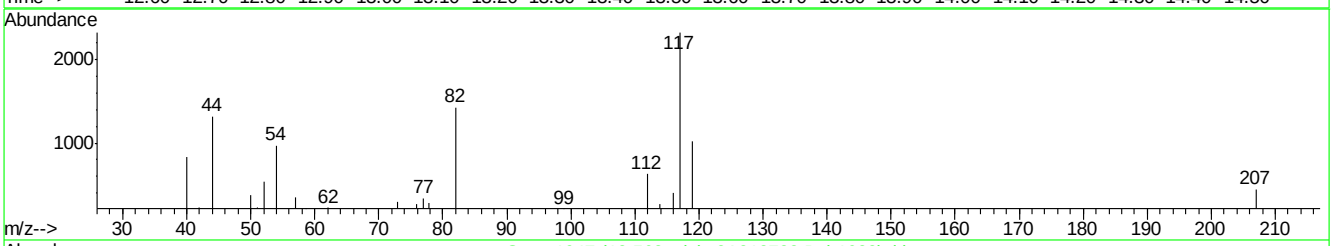
Quantitation Report (Qedit)

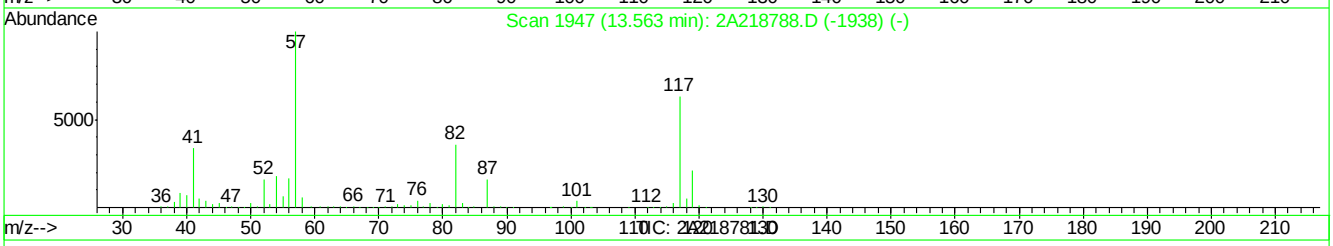
Data File : C:\MSDChem\1\DATA\V2A9511\2A218781.D Vial: 2
Acq On : 31 Jul 2022 5:23 pm Operator: PrashanS
Sample : IC9511-0.2 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:31:19 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:31:10 2022
Last Update : Mon Aug 01 14:31:10 2022
Response via : Multiple Level Calibration




(84) n-butyl ether

13.61min 0.01ug/L

response 190

| Ion | Exp% | Act% |
|---|---|---|
| 57.00 | 100 | 100 |
| 87.00 | 16.10 | 0.00 |
| 101.00 | 3.80 | 0.00 |
| 0.00 | 0.00 | 0.00 |

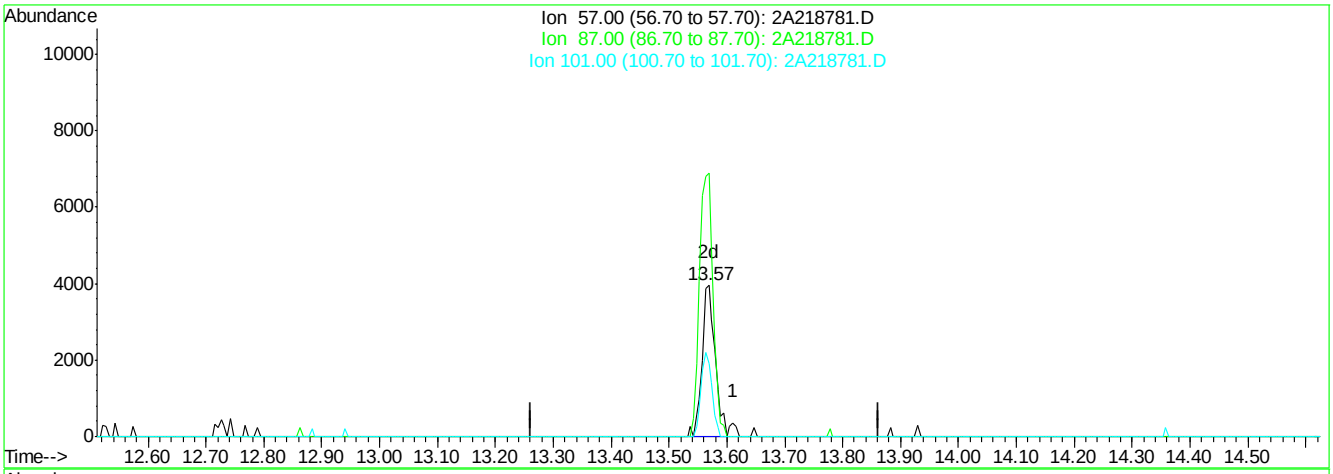
2A218781.D M2A9511.M Mon Aug 01 14:36:32 2022 MS2A

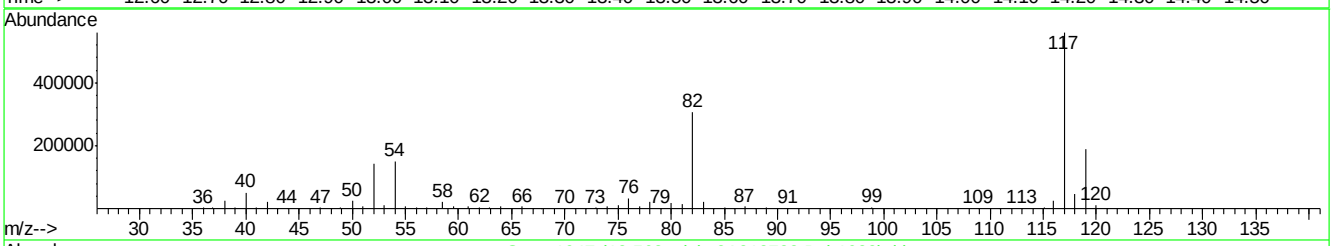
Quantitation Report (Qedit)

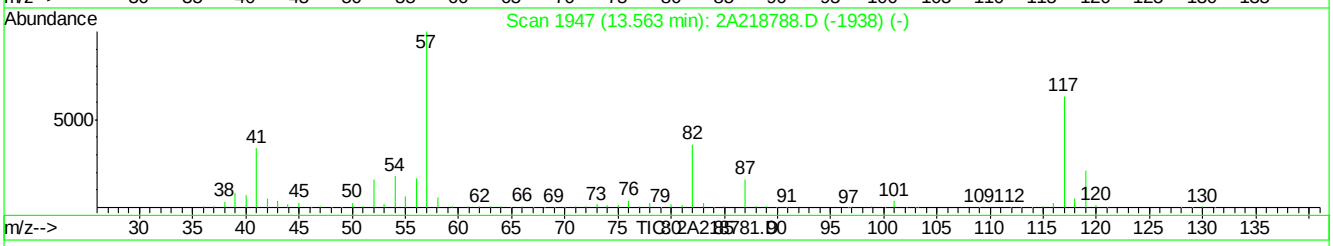
Data File : C:\MSDChem\1\DATA\V2A9511\2A218781.D Vial: 2
Acq On : 31 Jul 2022 5:23 pm Operator: PrashanS
Sample : IC9511-0.2 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:31:19 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:31:10 2022
Last Update : Mon Aug 01 14:31:10 2022
Response via : Multiple Level Calibration




(84) n-butyl ether

13.57min 0.21ug/L m

response 6000

| Ion | Exp% | Act% |
|---|---|---|
| 57.00 | 100 | 100 |
| 87.00 | 16.10 | 173.40# |
| 101.00 | 3.80 | 48.35# |
| 0.00 | 0.00 | 0.00 |

2A218781.D M2A9511.M Mon Aug 01 14:36:53 2022 MS2A

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/01/22 19:36

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218782.D
Acq On : 31 Jul 2022 5:51 pm
Operator : PrashanS
Sample : IC9511-0.5
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 15:19:21 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:31:10 2022
QLast Update : Mon Aug 01 14:38:54 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 427684 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 709874 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 963510 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 913372 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 497142 | 50.00 | ug/L | | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 709874 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 332645 | 49.82 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.64% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 447181 | 49.78 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.56% | | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1118880 | 50.14 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.28% | | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 464024 | 50.71 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.42% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 6) chlorodifluoromethane | 4.00 | 51 | 4561 | 0.48 | ug/L | | 76 |
| 7) dichlorodifluoromethane | 3.98 | 85 | 4014 | 0.42 | ug/L | # | 49 |
| 8) chloromethane | 4.33 | 50 | 6827m | 0.59 | ug/L | | |
| 9) vinyl chloride | 4.58 | 62 | 4303 | 0.46 | ug/L | | 87 |
| 10) 1,3-butadiene | 4.60 | 54 | 4893 | 0.63 | ug/L | | 97 |
| 11) bromomethane | 5.17 | 94 | 3097 | 0.58 | ug/L | | 71 |
| 12) chloroethane | 5.37 | 64 | 2045 | 0.46 | ug/L | # | 39 |
| 13) trichlorofluoromethane | 5.79 | 101 | 4666 | 0.46 | ug/L | | 88 |
| 14) ethyl ether | 6.18 | 74 | 1674m | 0.51 | ug/L | | |
| 16) freon 113 | 6.62 | 151 | 2906 | 0.60 | ug/L | | 93 |
| 17) 1,1-dichloroethene | 6.61 | 96 | 2861m | 0.56 | ug/L | | |
| 18) acetone | 6.61 | 43 | 6054 | 2.36 | ug/L | | 51 |
| 19) acetonitrile | 7.03 | 41 | 5486 | 5.02 | ug/L | | 77 |
| 20) iodomethane | 6.85 | 142 | 5604 | 0.55 | ug/L | | 89 |
| 21) carbon disulfide | 6.99 | 76 | 9356 | 0.55 | ug/L | | 94 |
| 22) methylene chloride | 7.31 | 84 | 3853 | 0.66 | ug/L | # | 56 |
| 23) methyl acetate | 7.06 | 43 | 3336 | 0.49 | ug/L | | 76 |
| 24) methyl tert butyl ether | 7.66 | 73 | 10380 | 0.55 | ug/L | | 91 |
| 25) trans-1,2-dichloroethene | 7.69 | 96 | 3344 | 0.59 | ug/L | | 90 |
| 26) hexane | 8.04 | 57 | 5690 | 0.51 | ug/L | | 87 |
| 27) di-isopropyl ether | 8.25 | 45 | 13089 | 0.48 | ug/L | | 97 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 11341 | 0.48 | ug/L | | 93 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 6281 | 0.53 | ug/L | | 92 |
| 31) chloroprene | 8.36 | 53 | 5235 | 0.46 | ug/L | | 95 |
| 35) 2,2-dichloropropane | 9.00 | 77 | 5384 | 0.56 | ug/L | | 89 |
| 36) cis-1,2-dichloroethene | 8.98 | 96 | 4024 | 0.67 | ug/L | # | 78 |
| 37) propionitrile | 8.99 | 54 | 5369 | 4.80 | ug/L | | 69 |
| 38) bromochloromethane | 9.26 | 130 | 2135 | 0.49 | ug/L | | 89 |
| 40) chloroform | 9.35 | 83 | 7919 | 0.71 | ug/L | | 92 |
| 41) tert-butyl formate | 9.39 | 59 | 2820 | 0.49 | ug/L | | 85 |
| 45) 1,1,1-trichloroethane | 9.61 | 97 | 5624 | 0.55 | ug/L | | 83 |
| 46) cyclohexane | 9.71 | 84 | 4015 | 0.48 | ug/L | | 87 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218782.D
Acq On : 31 Jul 2022 5:51 pm
Operator : PrashanS
Sample : IC9511-0.5
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 15:19:21 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:31:10 2022
QLast Update : Mon Aug 01 14:38:54 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 47) 1,1-dichloropropene | 9.77 | 75 | 4608 | 0.53 | ug/L | | 86 |
| 49) carbon tetrachloride | 9.80 | 117 | 5118 | 0.54 | ug/L | # | 80 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 13366 | 0.48 | ug/L | | 94 |
| 53) tert-amyl methyl ether | 10.12 | 73 | 10504 | 0.51 | ug/L | | 92 |
| 54) n-butyl alcohol | 10.51 | 56 | 6004 | 23.25 | ug/L | | 85 |
| 55) benzene | 10.02 | 78 | 11784 | 0.52 | ug/L | | 90 |
| 56) heptane | 10.28 | 57 | 2760 | 0.53 | ug/L | | 89 |
| 58) 1,2-dichloroethane | 10.05 | 62 | 6275 | 0.62 | ug/L | | 94 |
| 59) trichloroethene | 10.75 | 95 | 3600 | 0.56 | ug/L | | 86 |
| 60) ethyl acrylate | 10.75 | 55 | 5180 | 0.48 | ug/L | | 89 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 3346 | 0.50 | ug/L | | 95 |
| 65) methylcyclohexane | 11.04 | 83 | 5016 | 0.46 | ug/L | | 82 |
| 66) dibromomethane | 11.15 | 93 | 2581 | 0.56 | ug/L | | 80 |
| 67) bromodichloromethane | 11.29 | 83 | 4934 | 0.52 | ug/L | | 93 |
| 69) cis-1,3-dichloropropene | 11.76 | 75 | 5118 | 0.52 | ug/L | | 86 |
| 70) 4-methyl-2-pentanone | 11.87 | 58 | 6434 | 2.02 | ug/L | | 90 |
| 71) 3-methyl-1-butanol | 11.88 | 70 | 1593 | 7.64 | ug/L | # | 52 |
| 74) toluene | 12.14 | 92 | 7736 | 0.52 | ug/L | | 92 |
| 75) trans-1,3-dichloropropene | 12.33 | 75 | 4616 | 0.48 | ug/L | | 96 |
| 76) ethyl methacrylate | 12.32 | 69 | 3621 | 0.42 | ug/L | | 95 |
| 77) 1,1,2-trichloroethane | 12.55 | 83 | 2607 | 0.54 | ug/L | # | 83 |
| 78) 2-hexanone | 12.72 | 58 | 5965 | 1.94 | ug/L | | 98 |
| 79) tetrachloroethene | 12.68 | 166 | 4213 | 0.61 | ug/L | | 82 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 4907 | 0.48 | ug/L | | 93 |
| 81) butyl acetate | 12.79 | 56 | 2426 | 0.46 | ug/L | # | 47 |
| 82) dibromochloromethane | 12.97 | 129 | 3607 | 0.49 | ug/L | | 79 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 2987 | 0.49 | ug/L | | 98 |
| 84) n-butyl ether | 13.56 | 57 | 15283 | 0.52 | ug/L | # | 1 |
| 85) chlorobenzene | 13.59 | 112 | 8496 | 0.56 | ug/L | | 86 |
| 86) 1,1,1,2-tetrachloroethane | 13.65 | 131 | 3475 | 0.57 | ug/L | | 75 |
| 87) ethylbenzene | 13.66 | 91 | 14752 | 0.53 | ug/L | | 88 |
| 88) m,p-xylene | 13.78 | 106 | 11124 | 1.06 | ug/L | # | 82 |
| 89) o-xylene | 14.18 | 91 | 11555 | 0.50 | ug/L | | 93 |
| 90) styrene | 14.19 | 104 | 8385 | 0.49 | ug/L | | 95 |
| 91) n-amyl acetate | 14.22 | 70 | 1923 | 0.41 | ug/L | # | 71 |
| 92) bromoform | 14.42 | 173 | 2587 | 0.50 | ug/L | | 91 |
| 93) butyl acrylate | 14.02 | 55 | 6618 | 0.40 | ug/L | | 90 |
| 94) isopropylbenzene | 14.53 | 105 | 14109 | 0.53 | ug/L | | 96 |
| 95) cis-1,4-dichloro-2-butene | 14.57 | 88 | 1317 | 0.41 | ug/L | # | 81 |
| 98) bromobenzene | 14.91 | 156 | 4394 | 0.52 | ug/L | # | 67 |
| 99) 1,1,2,2-tetrachloroethane | 14.81 | 83 | 4398 | 0.52 | ug/L | | 90 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 1087 | 0.51 | ug/L | | 87 |
| 102) n-propylbenzene | 14.94 | 91 | 17284 | 0.54 | ug/L | | 90 |
| 103) 2-chlorotoluene | 15.07 | 126 | 3325 | 0.45 | ug/L | | 92 |
| 104) 4-chlorotoluene | 15.18 | 91 | 10857 | 0.54 | ug/L | | 93 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 12031 | 0.54 | ug/L | | 91 |
| 106) tert-butylbenzene | 15.44 | 119 | 10266 | 0.53 | ug/L | | 84 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 11941 | 0.52 | ug/L | | 91 |
| 108) sec-butylbenzene | 15.65 | 105 | 15065 | 0.52 | ug/L | | 98 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 7672 | 0.55 | ug/L | | 89 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218782.D
Acq On : 31 Jul 2022 5:51 pm
Operator : PrashanS
Sample : IC9511-0.5
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 15:19:21 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:31:10 2022
QLast Update : Mon Aug 01 14:38:54 2022
Response via : Initial Calibration

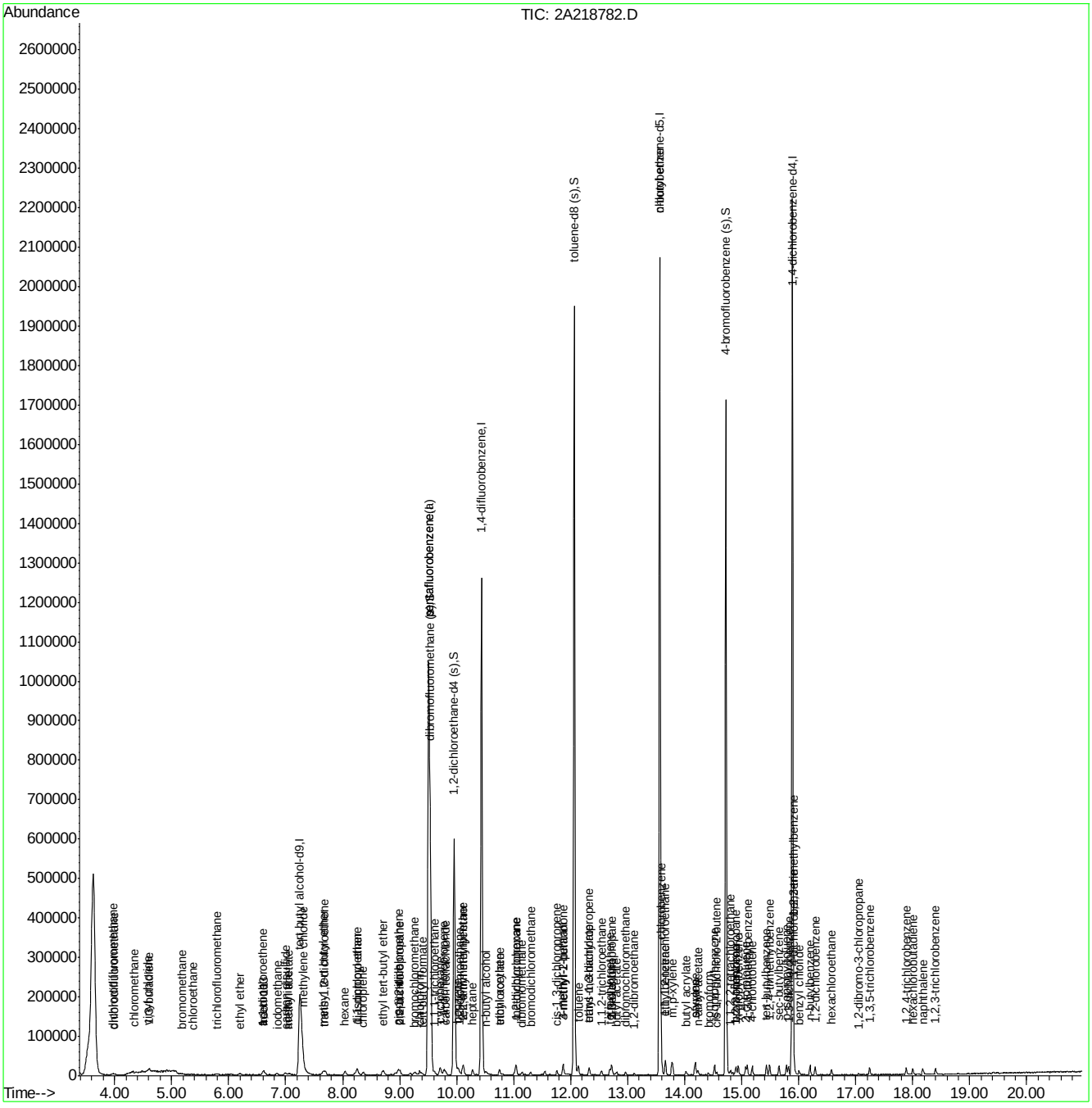
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 110) p-isopropyltoluene | 15.78 | 119 | 12719 | 0.50 | ug/L | 92 |
| 111) benzyl chloride | 16.01 | 91 | 6683 | 0.45 | ug/L | 94 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 13172 | 0.55 | ug/L | 92 |
| 113) 1,4-dichlorobenzene | 15.92 | 146 | 7227 | 0.46 | ug/L | 98 |
| 114) 1,2-dichlorobenzene | 16.29 | 146 | 7104 | 0.51 | ug/L | 98 |
| 115) n-butylbenzene | 16.20 | 92 | 6437 | 0.50 | ug/L | 93 |
| 116) 1,2-dibromo-3-chloropropan | 17.06 | 157 | 779 | 0.40 | ug/L | 72 |
| 117) 1,3,5-trichlorobenzene | 17.25 | 180 | 5546 | 0.50 | ug/L | 89 |
| 118) 1,2,4-trichlorobenzene | 17.89 | 180 | 4459 | 0.49 | ug/L | 93 |
| 119) hexachlorobutadiene | 18.00 | 225 | 2240 | 0.50 | ug/L | 91 |
| 120) naphthalene | 18.18 | 128 | 9742 | 0.43 | ug/L | 93 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 4270 | 0.51 | ug/L | 84 |
| 122) hexachloroethane | 16.58 | 201 | 1757 | 0.45 | ug/L | 87 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218782.D
Acq On : 31 Jul 2022 5:51 pm
Operator : PrashanS
Sample : IC9511-0.5
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 15:19:21 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:31:10 2022
QLast Update : Mon Aug 01 14:38:54 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V2A9511-IC9511
**Lab FileID:** 2A218782.D
**Injection Time:** 07/31/22 17:51
**Method:** SW846 8260D
**Analyst approved:** 08/01/22 15:32 MoHui Huang
**Supervisor approved:** 08/01/22 19:36 Kanya Veerawat

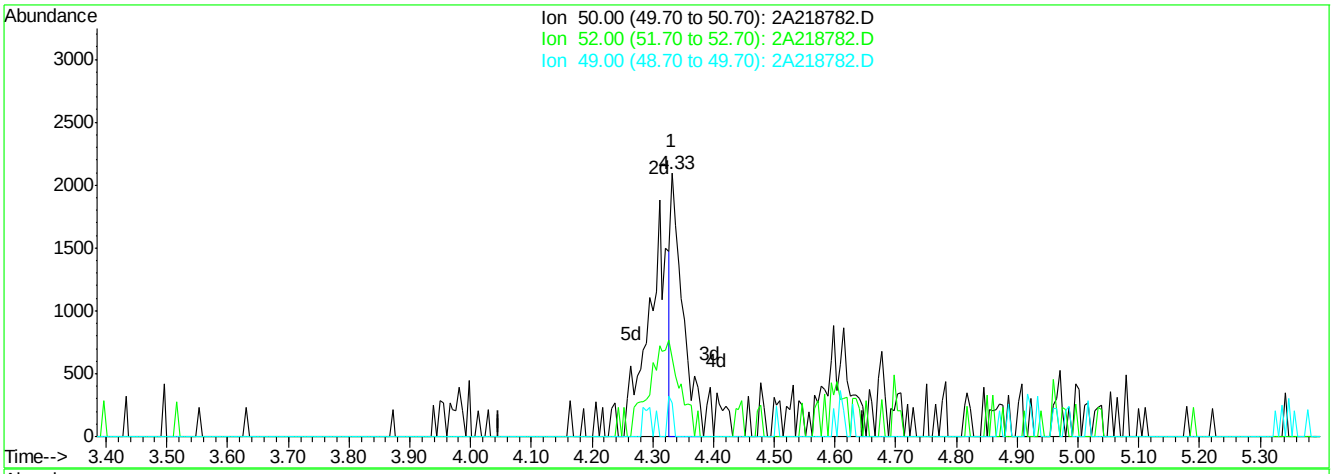
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Chloromethane | 74-87-3 | | 4.33 | Split peak |
| Ethyl Ether | 60-29-7 | | 6.18 | Split peak |
| 1,1-Dichloroethene | 75-35-4 | | 6.61 | Split peak |

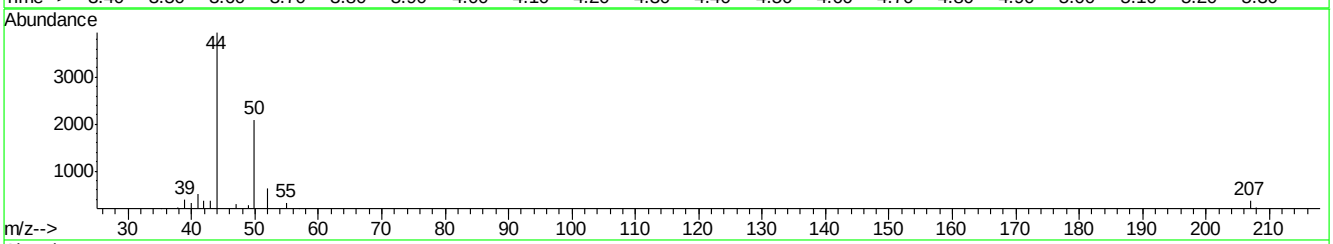
Quantitation Report (Qedit)

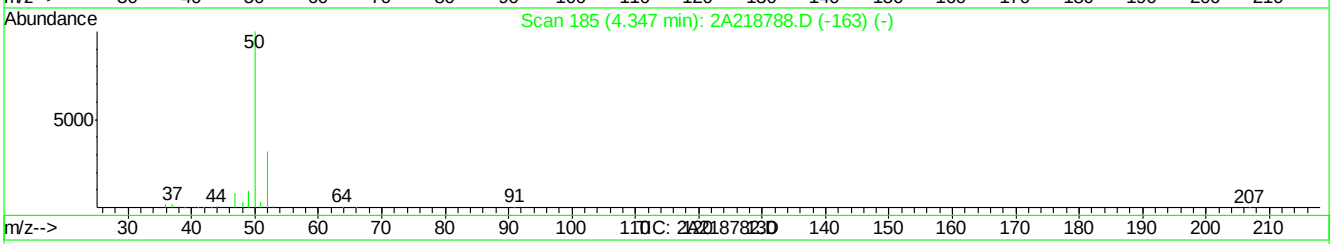
Data File : C:\MSDChem\1\DATA\V2A9511\2A218782.D Vial: 3
Acq On : 31 Jul 2022 5:51 pm Operator: PrashanS
Sample : IC9511-0.5 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:39:00 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
Last Update : Mon Aug 01 14:38:54 2022
Response via : Multiple Level Calibration




(8) chloromethane

4.33min 0.25ug/L

response 2886

| Ion | Exp% | Act% |
|---|---|---|
| 50.00 | 100 | 100 |
| 52.00 | 31.70 | 29.94 |
| 49.00 | 9.80 | 12.99 |
| 0.00 | 0.00 | 0.00 |

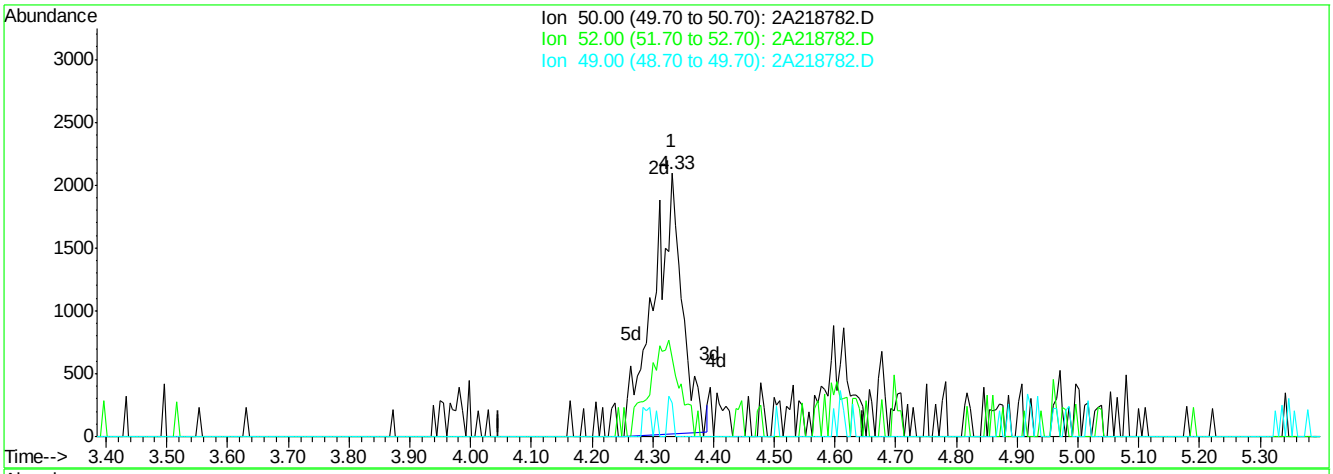
2A218782.D M2A9511.M Mon Aug 01 14:39:29 2022 MS2A

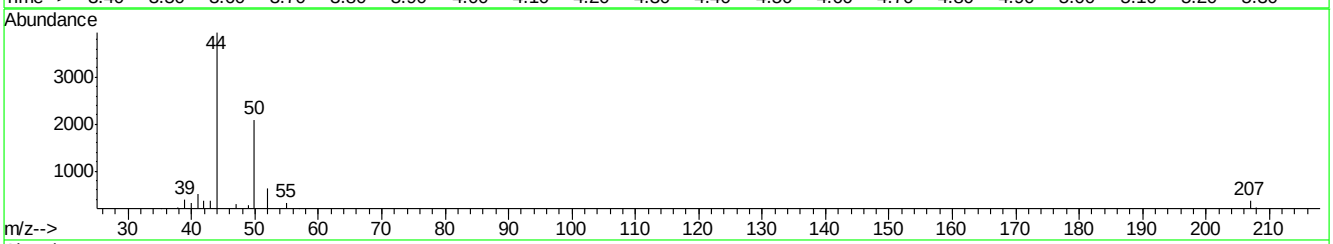
Quantitation Report (Qedit)

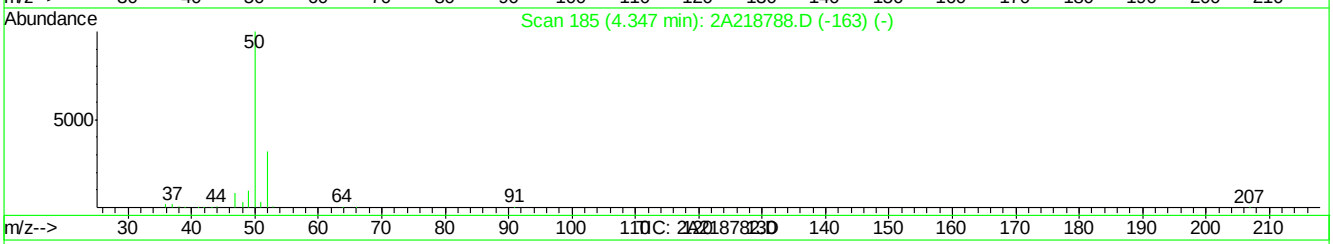
Data File : C:\MSDChem\1\DATA\V2A9511\2A218782.D Vial: 3
Acq On : 31 Jul 2022 5:51 pm Operator: PrashanS
Sample : IC9511-0.5 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:39:00 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
Last Update : Mon Aug 01 14:38:54 2022
Response via : Multiple Level Calibration




(8) chloromethane

4.33min 0.59ug/L m

response 6827

| Ion | Exp% | Act% |
|---|---|---|
| 50.00 | 100 | 100 |
| 52.00 | 31.70 | 29.94 |
| 49.00 | 9.80 | 12.99 |
| 0.00 | 0.00 | 0.00 |

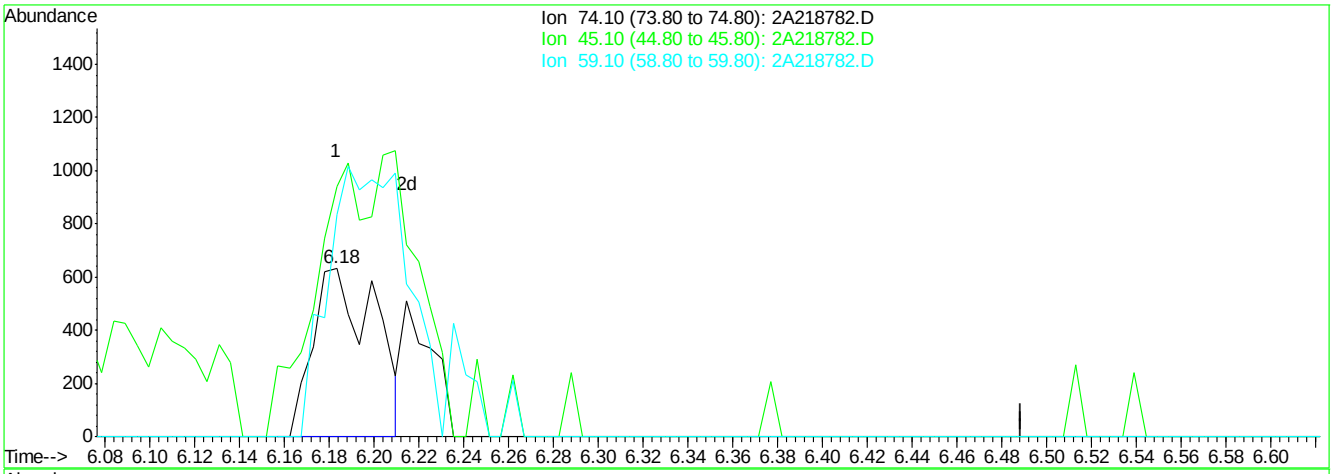
2A218782.D M2A9511.M Mon Aug 01 14:39:46 2022 MS2A

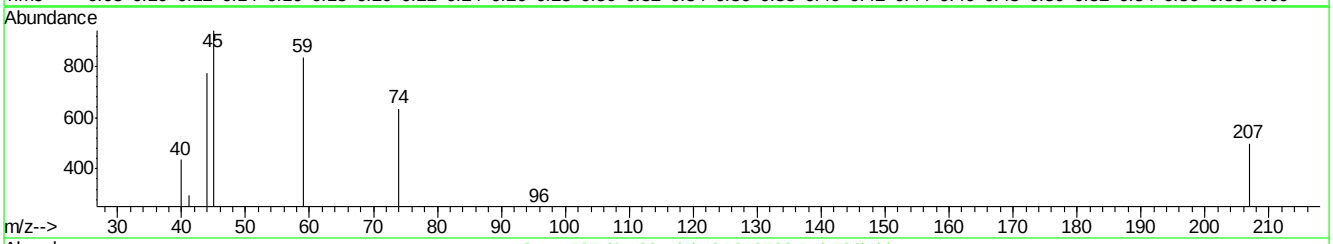
Quantitation Report (Qedit)

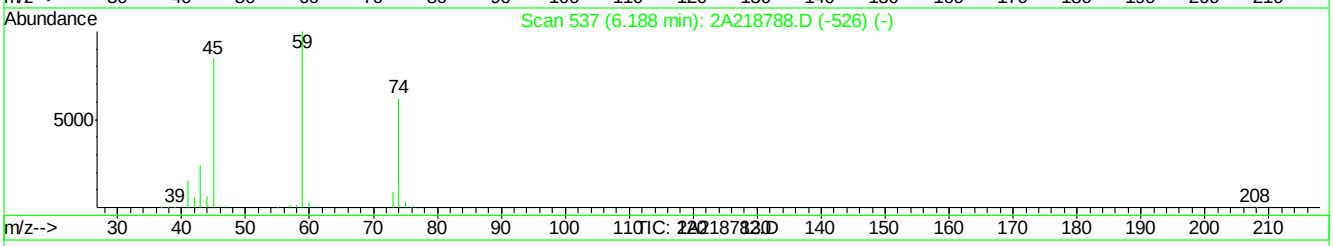
Data File : C:\MSDChem\1\DATA\V2A9511\2A218782.D Vial: 3
Acq On : 31 Jul 2022 5:51 pm Operator: PrashanS
Sample : IC9511-0.5 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:39:00 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
Last Update : Mon Aug 01 14:38:54 2022
Response via : Multiple Level Calibration




(14) ethyl ether

6.18min 0.37ug/L

response 1209

| Ion | Exp% | Act% |
|---|---|---|
| 74.10 | 100 | 100 |
| 45.10 | 150.10 | 106.15# |
| 59.10 | 161.60 | 131.70 |
| 0.00 | 0.00 | 0.00 |

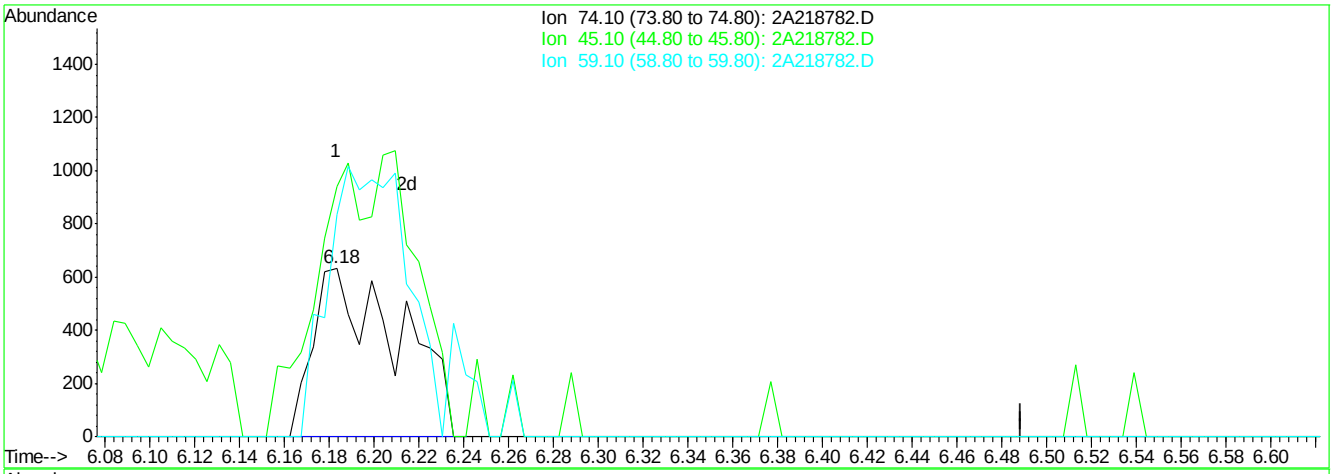
2A218782.D M2A9511.M Mon Aug 01 14:40:09 2022 MS2A

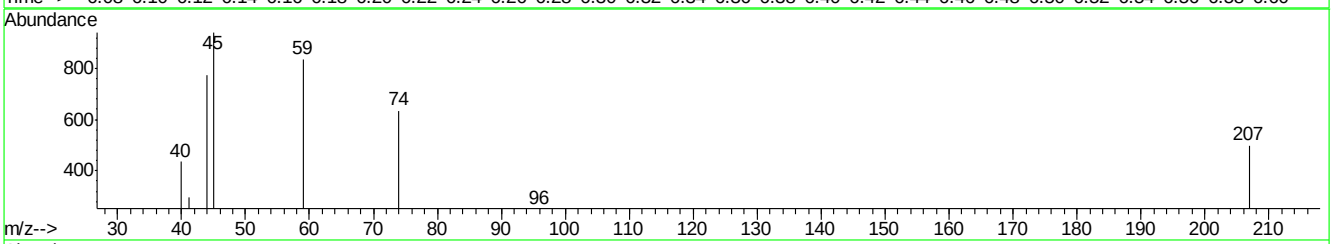
Quantitation Report (Qedit)

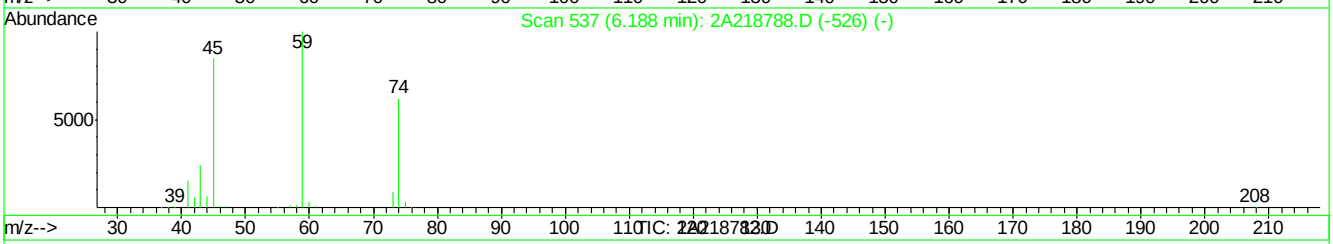
Data File : C:\MSDChem\1\DATA\V2A9511\2A218782.D Vial: 3
Acq On : 31 Jul 2022 5:51 pm Operator: PrashanS
Sample : IC9511-0.5 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:39:00 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
Last Update : Mon Aug 01 14:38:54 2022
Response via : Multiple Level Calibration




(14) ethyl ether

6.18min 0.51ug/L m

response 1674

| Ion | Exp% | Act% |
|---|---|---|
| 74.10 | 100 | 100 |
| 45.10 | 150.10 | 148.26 |
| 59.10 | 161.60 | 131.70 |
| 0.00 | 0.00 | 0.00 |

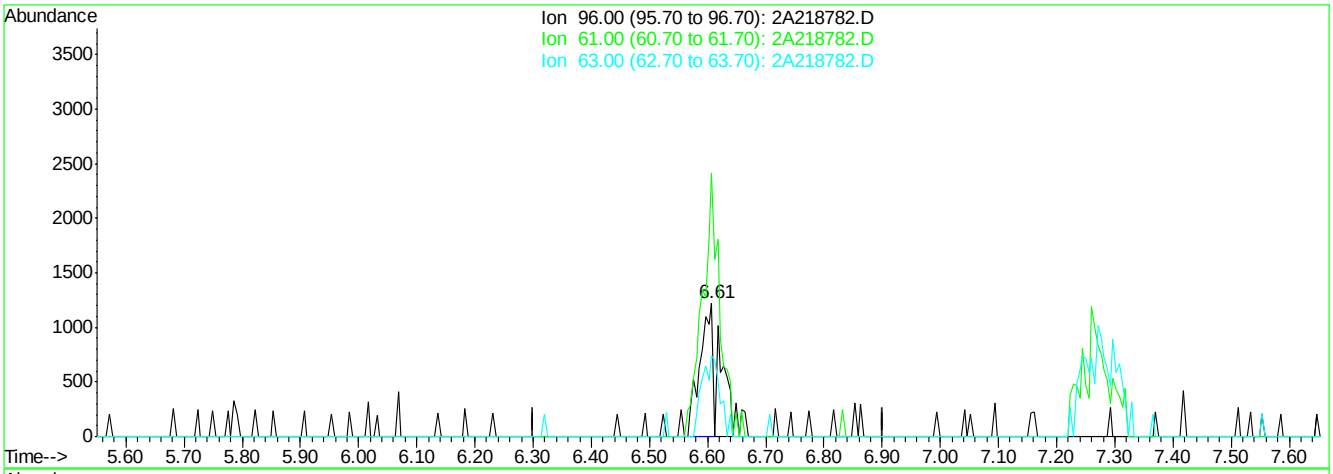
2A218782.D M2A9511.M Mon Aug 01 14:40:24 2022 MS2A

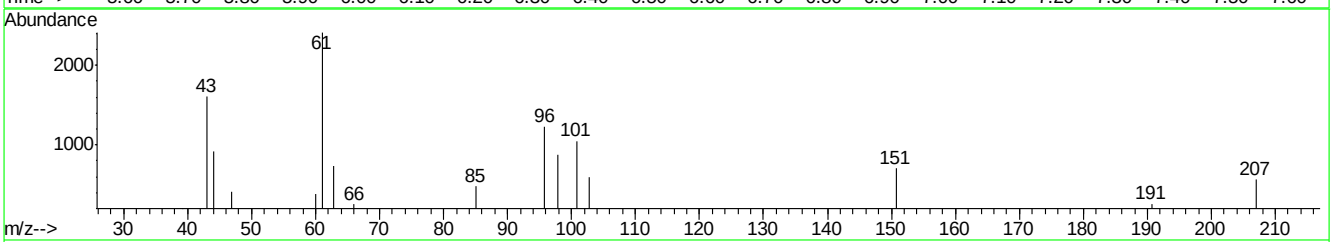
Quantitation Report (Qedit)

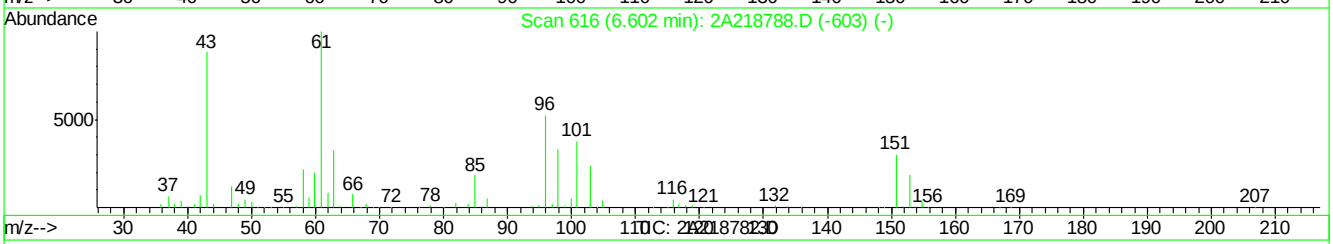
Data File : C:\MSDChem\1\DATA\V2A9511\2A218782.D Vial: 3
Acq On : 31 Jul 2022 5:51 pm Operator: PrashanS
Sample : IC9511-0.5 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:39:00 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
Last Update : Mon Aug 01 14:38:54 2022
Response via : Multiple Level Calibration




(17) 1,1-dichloroethene

6.61min 0.37ug/L

response 1851

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 191.10 | 176.35 |
| 63.00 | 62.60 | 60.11 |
| 0.00 | 0.00 | 0.00 |

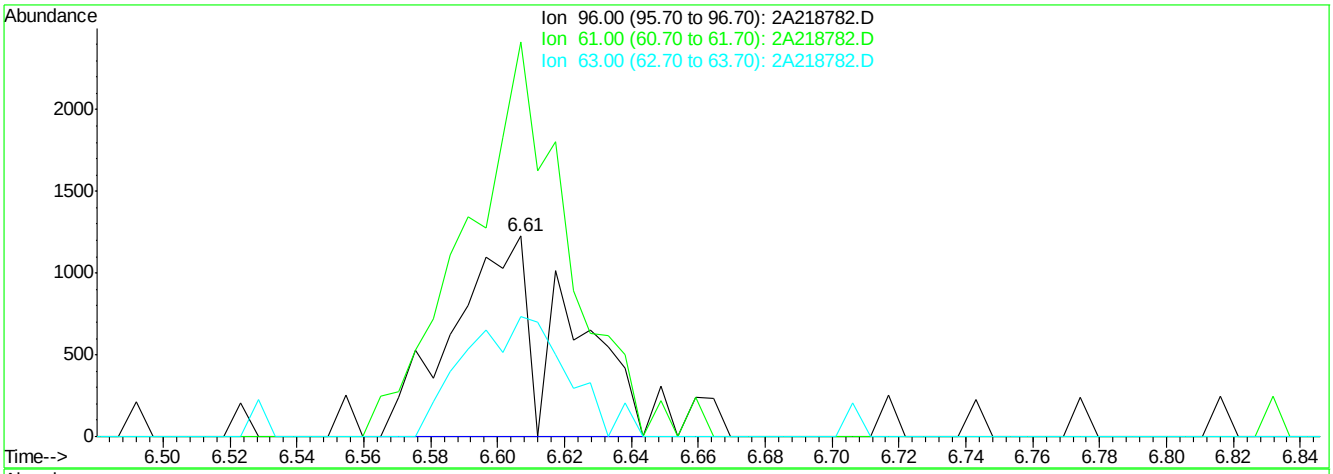
2A218782.D M2A9511.M Mon Aug 01 14:40:41 2022 MS2A

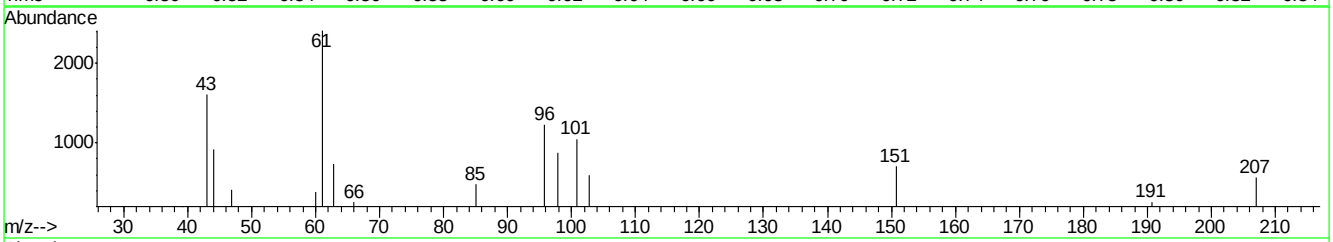
Quantitation Report (Qedit)

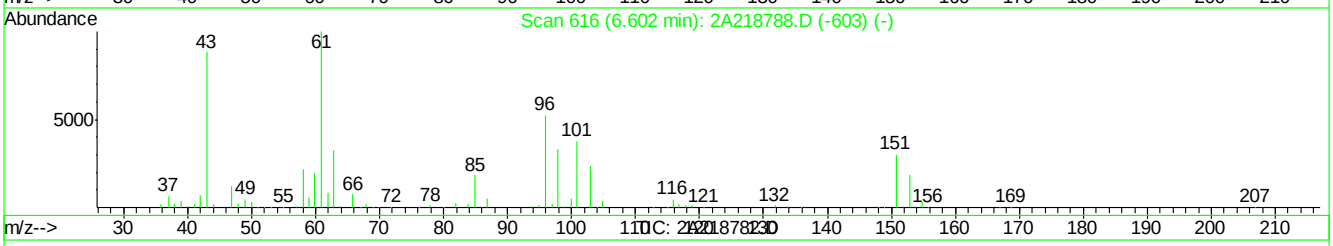
Data File : C:\MSDChem\1\DATA\V2A9511\2A218782.D Vial: 3
Acq On : 31 Jul 2022 5:51 pm Operator: PrashanS
Sample : IC9511-0.5 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:39:00 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
Last Update : Mon Aug 01 14:38:54 2022
Response via : Multiple Level Calibration




(17) 1,1-dichloroethene

6.61min 0.56ug/L m

response 2861

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 191.10 | 196.74 |
| 63.00 | 62.60 | 60.11 |
| 0.00 | 0.00 | 0.00 |

2A218782.D M2A9511.M Mon Aug 01 14:40:55 2022 MS2A

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/01/22 19:36

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218783.D
Acq On : 31 Jul 2022 6:19 pm
Operator : PrashanS
Sample : IC9511-1
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 15:19:51 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
QLast Update : Mon Aug 01 14:46:21 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 407382 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 694582 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 941814 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 912974 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 490057 | 50.00 | ug/L | | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 694582 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 328824 | 50.39 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.78% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 436526 | 49.79 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.58% | | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1114699 | 49.93 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.86% | | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 458403 | 50.58 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.16% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 6.01 | 45 | 9817 | 99.45 | ug/L | | 78 |
| 3) tertiary butyl alcohol | 7.38 | 59 | 5000 | 5.04 | ug/L | | 96 |
| 4) 1,4-dioxane | 11.08 | 88 | 1387 | 18.53 | ug/L | # | 54 |
| 6) chlorodifluoromethane | 3.99 | 51 | 9439 | 1.04 | ug/L | | 89 |
| 7) dichlorodifluoromethane | 3.98 | 85 | 9663 | 1.12 | ug/L | | 70 |
| 8) chloromethane | 4.32 | 50 | 12556 | 1.01 | ug/L | | 93 |
| 9) vinyl chloride | 4.56 | 62 | 9647 | 1.10 | ug/L | | 70 |
| 10) 1,3-butadiene | 4.61 | 54 | 8189 | 0.95 | ug/L | | 87 |
| 11) bromomethane | 5.17 | 94 | 5519 | 0.98 | ug/L | # | 65 |
| 12) chloroethane | 5.35 | 64 | 4321 | 1.03 | ug/L | | 76 |
| 13) trichlorofluoromethane | 5.79 | 101 | 10052 | 1.04 | ug/L | | 88 |
| 14) ethyl ether | 6.19 | 74 | 3197 | 0.99 | ug/L | # | 58 |
| 15) acrolein | 6.42 | 56 | 1508m | 0.99 | ug/L | | |
| 16) freon 113 | 6.60 | 151 | 4687 | 0.90 | ug/L | # | 86 |
| 17) 1,1-dichloroethene | 6.60 | 96 | 4941 | 0.94 | ug/L | | 96 |
| 18) acetone | 6.61 | 43 | 10837 | 3.96 | ug/L | | 99 |
| 19) acetonitrile | 7.04 | 41 | 10917 | 10.18 | ug/L | | 77 |
| 20) iodomethane | 6.85 | 142 | 9505 | 0.92 | ug/L | | 91 |
| 21) carbon disulfide | 6.99 | 76 | 17079 | 0.98 | ug/L | | 96 |
| 22) methylene chloride | 7.30 | 84 | 6013 | 0.91 | ug/L | | 95 |
| 23) methyl acetate | 7.07 | 43 | 6007 | 0.91 | ug/L | | 84 |
| 24) methyl tert butyl ether | 7.66 | 73 | 18028 | 0.95 | ug/L | | 92 |
| 25) trans-1,2-dichloroethene | 7.69 | 96 | 5966 | 0.99 | ug/L | | 96 |
| 26) hexane | 8.03 | 57 | 9813 | 0.90 | ug/L | | 82 |
| 27) di-isopropyl ether | 8.25 | 45 | 24016 | 0.92 | ug/L | | 94 |
| 28) ethyl tert-butyl ether | 8.70 | 59 | 21605 | 0.95 | ug/L | | 87 |
| 29) 2-butanone | 8.91 | 72 | 2520 | 3.44 | ug/L | # | 50 |
| 30) 1,1-dichloroethane | 8.25 | 63 | 11081 | 0.94 | ug/L | | 97 |
| 31) chloroprene | 8.36 | 53 | 10206 | 0.94 | ug/L | | 91 |
| 32) acrylonitrile | 7.62 | 53 | 2570m | 0.85 | ug/L | | |
| 33) vinyl acetate | 8.21 | 86 | 747 | 0.67 | ug/L | # | 6 |
| 34) ethyl acetate | 8.93 | 45 | 963 | 0.71 | ug/L | # | 64 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218783.D
Acq On : 31 Jul 2022 6:19 pm
Operator : PrashanS
Sample : IC9511-1
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 15:19:51 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
QLast Update : Mon Aug 01 14:46:21 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 9.00 | 77 | 8946 | 0.92 ug/L | 92 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 6297 | 0.96 ug/L # | 75 |
| 37) propionitrile | 9.00 | 54 | 10369 | 9.67 ug/L | 86 |
| 38) bromochloromethane | 9.25 | 130 | 4198 | 0.99 ug/L | 93 |
| 39) tetrahydrofuran | 9.29 | 42 | 3638 | 1.35 ug/L | 78 |
| 40) chloroform | 9.35 | 83 | 12172 | 0.92 ug/L | 92 |
| 41) tert-butyl formate | 9.39 | 59 | 5152 | 0.92 ug/L | 92 |
| 42) isobutyl alcohol | 9.75 | 43 | 4125 | 8.60 ug/L # | 76 |
| 44) methacrylonitrile | 9.19 | 67 | 2548 | 0.94 ug/L # | 57 |
| 45) 1,1,1-trichloroethane | 9.61 | 97 | 10154 | 0.98 ug/L | 87 |
| 46) cyclohexane | 9.71 | 84 | 8523 | 1.05 ug/L | 87 |
| 47) 1,1-dichloropropene | 9.78 | 75 | 7540 | 0.86 ug/L | 94 |
| 48) tert-amyl alcohol | 9.91 | 73 | 2477 | 5.91 ug/L # | 31 |
| 49) carbon tetrachloride | 9.79 | 117 | 8857 | 0.93 ug/L | 91 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 26242 | 0.97 ug/L | 98 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 19112 | 0.94 ug/L | 98 |
| 54) n-butyl alcohol | 10.51 | 56 | 9956 | 40.88 ug/L # | 66 |
| 55) benzene | 10.02 | 78 | 22332 | 0.99 ug/L | 94 |
| 56) heptane | 10.28 | 57 | 5347 | 1.02 ug/L | 87 |
| 57) isopropyl acetate | 9.94 | 87 | 1386 | 1.03 ug/L # | 21 |
| 58) 1,2-dichloroethane | 10.04 | 62 | 10727 | 0.97 ug/L | 92 |
| 59) trichloroethene | 10.74 | 95 | 6125 | 0.94 ug/L | 99 |
| 60) ethyl acrylate | 10.75 | 55 | 9095 | 0.88 ug/L | 69 |
| 61) 2-nitropropane | 11.50 | 41 | 2542 | 0.93 ug/L # | 73 |
| 63) methyl methacrylate | 11.01 | 100 | 1221 | 0.73 ug/L # | 59 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 6477 | 0.99 ug/L | 91 |
| 65) methylcyclohexane | 11.04 | 83 | 10571 | 1.02 ug/L | 88 |
| 66) dibromomethane | 11.15 | 93 | 3826 | 0.82 ug/L | 82 |
| 67) bromodichloromethane | 11.29 | 83 | 8579 | 0.92 ug/L | 99 |
| 68) epichlorohydrin | 11.63 | 57 | 3017 | 3.67 ug/L | 74 |
| 69) cis-1,3-dichloropropene | 11.76 | 75 | 9309 | 0.95 ug/L | 91 |
| 70) 4-methyl-2-pentanone | 11.87 | 58 | 11509 | 3.68 ug/L | 88 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 3012 | 16.75 ug/L | 83 |
| 74) toluene | 12.14 | 92 | 13671 | 0.91 ug/L | 97 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 8823 | 0.93 ug/L | 90 |
| 76) ethyl methacrylate | 12.32 | 69 | 6930 | 0.87 ug/L | 87 |
| 77) 1,1,2-trichloroethane | 12.53 | 83 | 4777 | 0.96 ug/L # | 79 |
| 78) 2-hexanone | 12.71 | 58 | 11006 | 3.64 ug/L | 94 |
| 79) tetrachloroethene | 12.69 | 166 | 7061 | 0.95 ug/L | 95 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 8963 | 0.89 ug/L | 91 |
| 81) butyl acetate | 12.79 | 56 | 5063 | 1.00 ug/L # | 60 |
| 82) dibromochloromethane | 12.96 | 129 | 6773 | 0.93 ug/L | 90 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 5756 | 0.95 ug/L | 99 |
| 84) n-butyl ether | 13.56 | 57 | 27691m | 0.93 ug/L | |
| 85) chlorobenzene | 13.59 | 112 | 15502 | 0.98 ug/L | 99 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 6041 | 0.95 ug/L | 94 |
| 87) ethylbenzene | 13.66 | 91 | 26935 | 0.95 ug/L | 89 |
| 88) m,p-xylene | 13.78 | 106 | 20264 | 1.90 ug/L | 97 |
| 89) o-xylene | 14.18 | 91 | 21553 | 0.94 ug/L | 88 |
| 90) styrene | 14.19 | 104 | 15596 | 0.91 ug/L | 94 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218783.D
Acq On : 31 Jul 2022 6:19 pm
Operator : PrashanS
Sample : IC9511-1
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 15:19:51 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
QLast Update : Mon Aug 01 14:46:21 2022
Response via : Initial Calibration

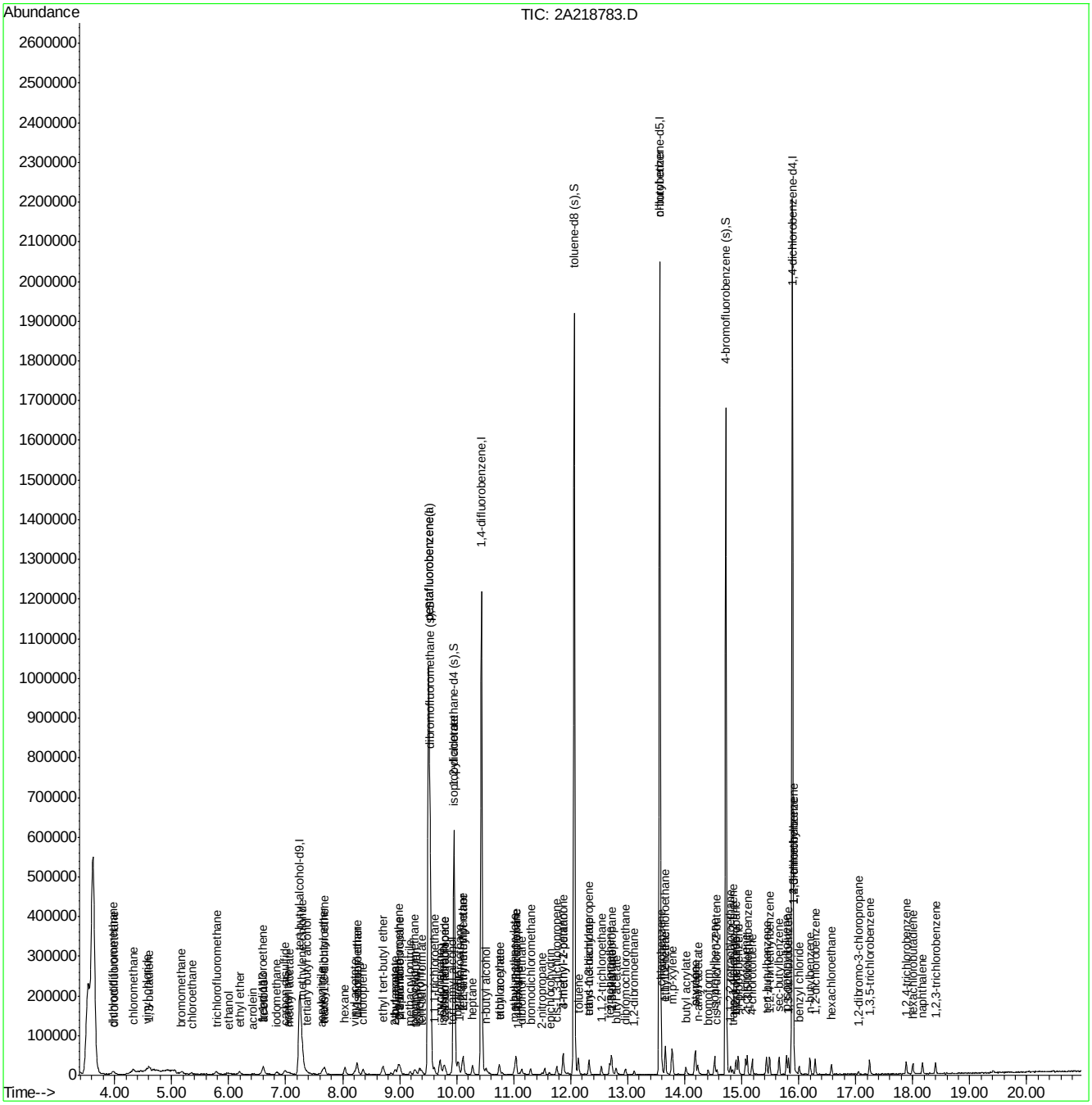
| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 91) n-amyl acetate | 14.22 | 70 | 3976 | 0.93 | ug/L | # | 78 |
| 92) bromoform | 14.41 | 173 | 4471 | 0.86 | ug/L | | 96 |
| 93) butyl acrylate | 14.02 | 55 | 12771 | 0.86 | ug/L | | 89 |
| 94) isopropylbenzene | 14.53 | 105 | 25343 | 0.93 | ug/L | | 98 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 2072 | 0.71 | ug/L | # | 86 |
| 98) bromobenzene | 14.90 | 156 | 7240 | 0.86 | ug/L | | 92 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 8059 | 0.96 | ug/L | | 82 |
| 100) trans-1,4-dichloro-2-buten | 14.84 | 53 | 2192 | 0.76 | ug/L | # | 65 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 1960 | 0.92 | ug/L | | 92 |
| 102) n-propylbenzene | 14.94 | 91 | 31813 | 0.98 | ug/L | | 93 |
| 103) 2-chlorotoluene | 15.07 | 126 | 6407 | 0.91 | ug/L | # | 85 |
| 104) 4-chlorotoluene | 15.18 | 91 | 19712 | 0.97 | ug/L | | 99 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 20965 | 0.94 | ug/L | | 97 |
| 106) tert-butylbenzene | 15.44 | 119 | 18253 | 0.93 | ug/L | | 95 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 21476 | 0.94 | ug/L | | 93 |
| 108) sec-butylbenzene | 15.66 | 105 | 27429 | 0.95 | ug/L | | 96 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 13883 | 0.98 | ug/L | | 88 |
| 110) p-isopropyltoluene | 15.79 | 119 | 23162 | 0.92 | ug/L | | 97 |
| 111) benzyl chloride | 16.01 | 91 | 11789 | 0.85 | ug/L | | 96 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 21971 | 0.90 | ug/L | | 92 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 14668 | 0.97 | ug/L | | 99 |
| 114) 1,2-dichlorobenzene | 16.29 | 146 | 13606 | 0.99 | ug/L | | 97 |
| 115) n-butylbenzene | 16.19 | 92 | 11781 | 0.93 | ug/L | | 92 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 1511 | 0.87 | ug/L | | 88 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 10119 | 0.93 | ug/L | | 94 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 8315 | 0.93 | ug/L | | 92 |
| 119) hexachlorobutadiene | 18.00 | 225 | 4594 | 1.04 | ug/L | | 92 |
| 120) naphthalene | 18.17 | 128 | 20366 | 0.95 | ug/L | | 95 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 7732 | 0.93 | ug/L | | 93 |
| 122) hexachloroethane | 16.57 | 201 | 3247 | 0.88 | ug/L | | 89 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218783.D
Acq On : 31 Jul 2022 6:19 pm
Operator : PrashanS
Sample : IC9511-1
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 15:19:51 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
QLast Update : Mon Aug 01 14:46:21 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V2A9511-IC9511
**Lab FileID:** 2A218783.D
**Injection Time:** 07/31/22 18:19
**Method:** SW846 8260D
**Analyst approved:** 08/01/22 15:32 MoHui Huang
**Supervisor approved:** 08/01/22 19:36 Kanya Veerawat

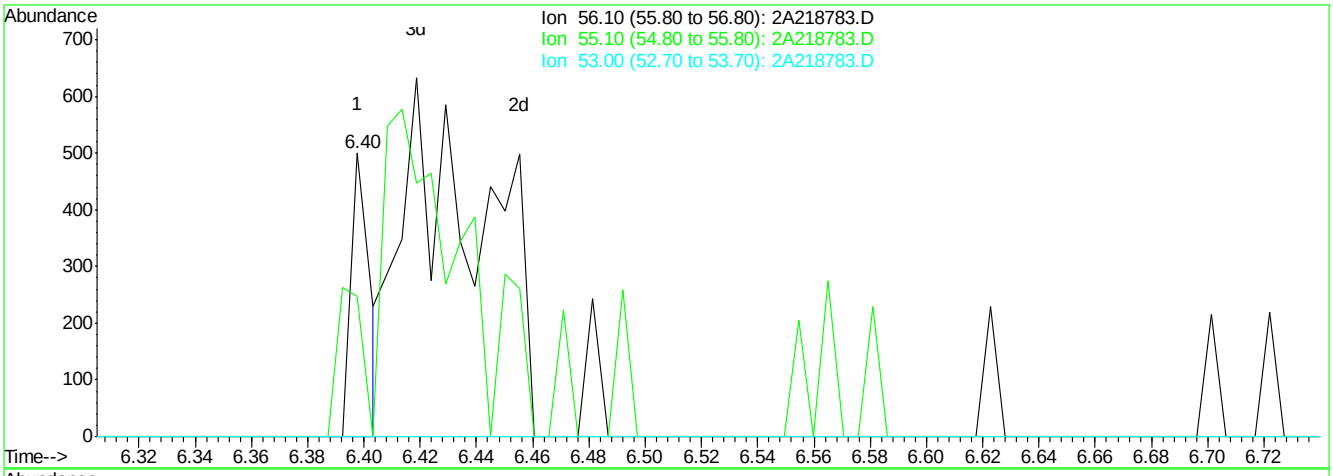
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Acrolein | 107-02-8 | | 6.42 | Split peak |
| Acrylonitrile | 107-13-1 | | 7.62 | Split peak |
| n-Butyl Ether | 142-96-1 | | 13.56 | Missed peak |

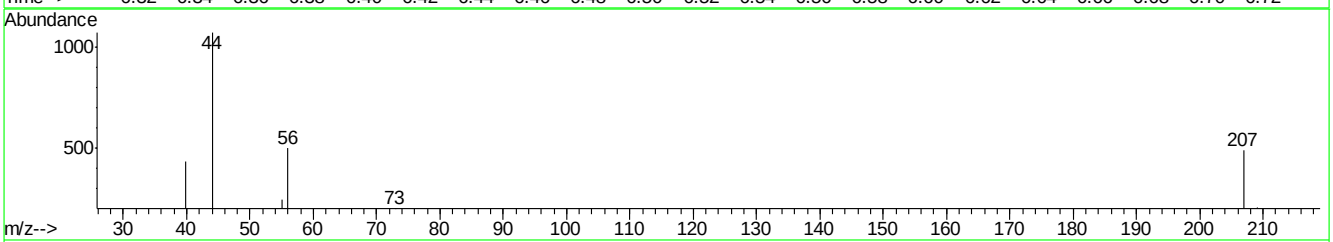
Quantitation Report (Qedit)

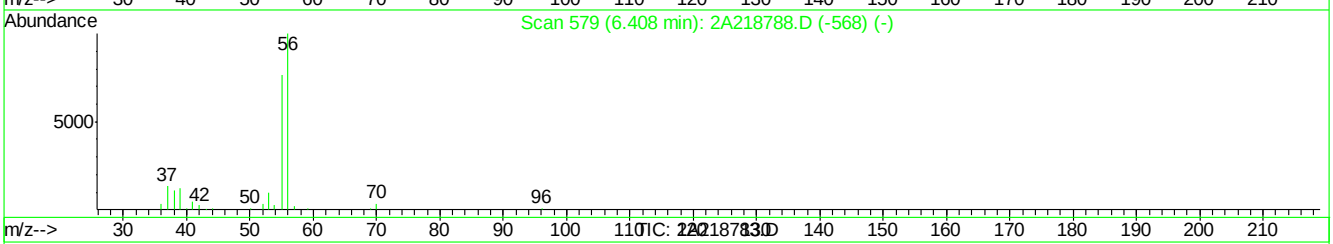
Data File : C:\MSDChem\1\DATA\V2A9511\2A218783.D Vial: 4
Acq On : 31 Jul 2022 6:19 pm Operator: PrashanS
Sample : IC9511-1 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:46:27 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
Last Update : Mon Aug 01 14:46:21 2022
Response via : Multiple Level Calibration




(15) acrolein

6.40min 0.15ug/L

response 229

| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 100 |
| 55.10 | 76.40 | 49.60 |
| 53.00 | 9.70 | 0.00 |
| 0.00 | 0.00 | 0.00 |

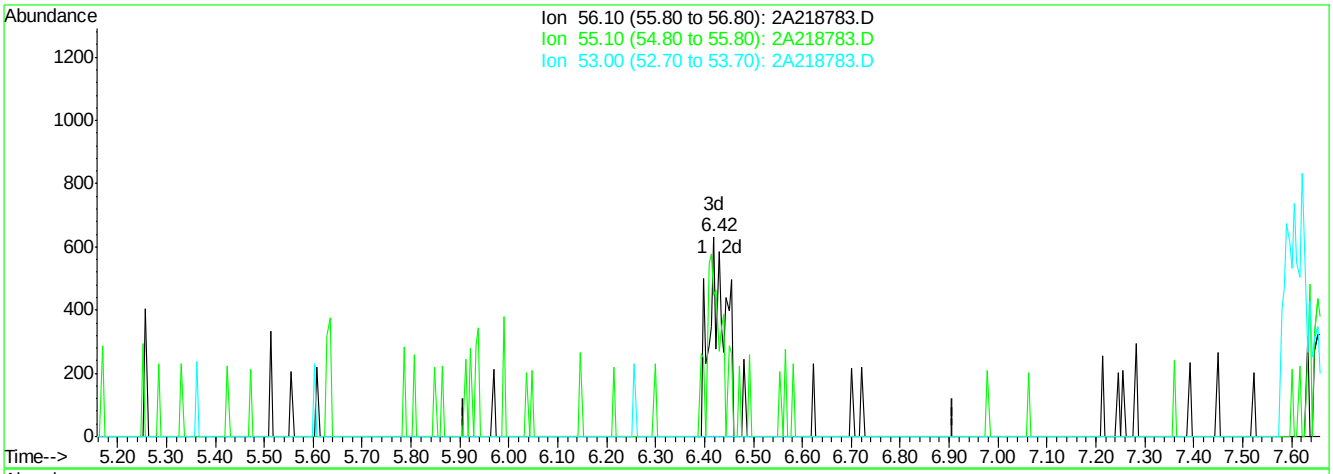
2A218783.D M2A9511.M Mon Aug 01 14:47:14 2022 MS2A

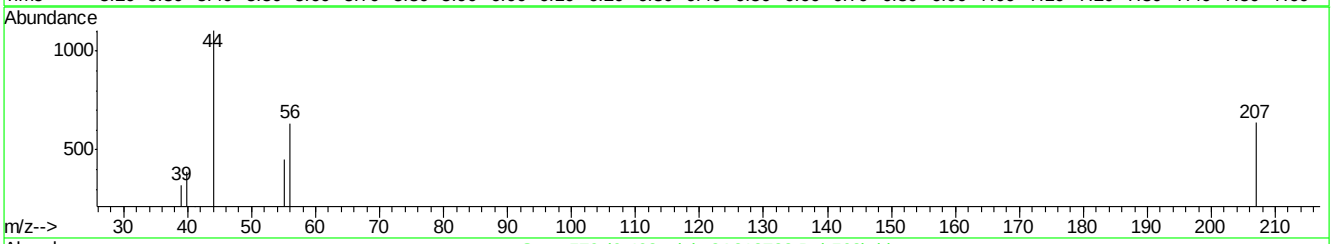
Quantitation Report (Qedit)

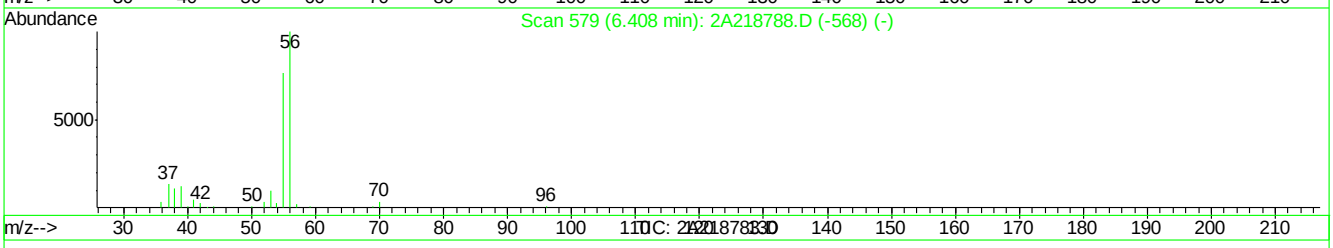
Data File : C:\MSDChem\1\DATA\V2A9511\2A218783.D Vial: 4
Acq On : 31 Jul 2022 6:19 pm Operator: PrashanS
Sample : IC9511-1 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:46:27 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
Last Update : Mon Aug 01 14:46:21 2022
Response via : Multiple Level Calibration




(15) acrolein

6.42min 0.99ug/L m

response 1508

| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 100 |
| 55.10 | 76.40 | 70.77 |
| 53.00 | 9.70 | 0.00 |
| 0.00 | 0.00 | 0.00 |

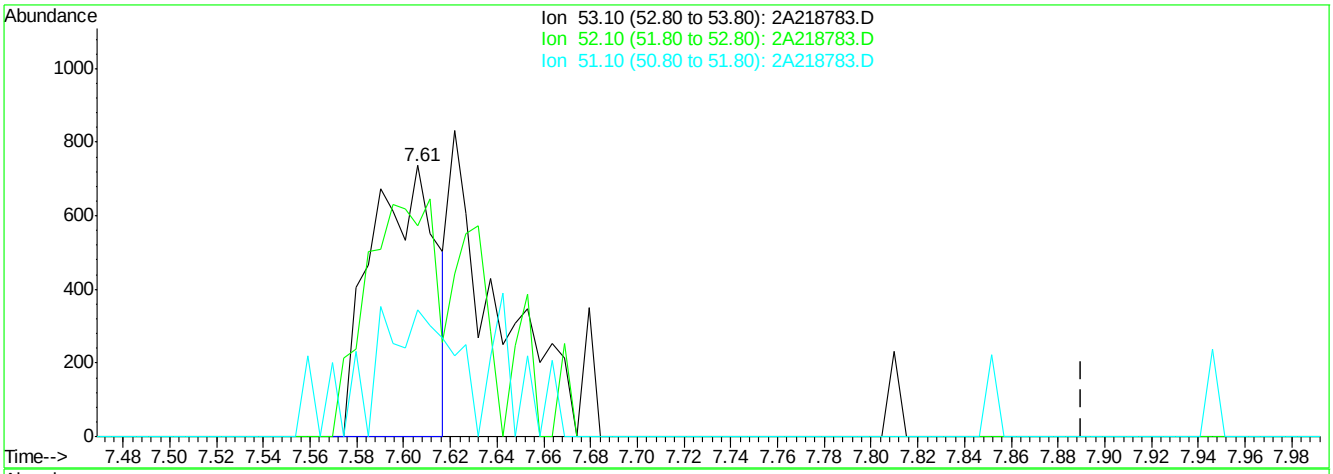
2A218783.D M2A9511.M Mon Aug 01 14:47:29 2022 MS2A

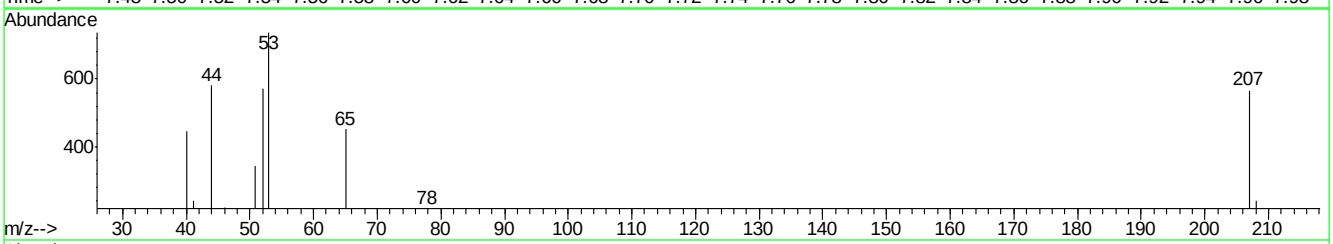
Quantitation Report (Qedit)

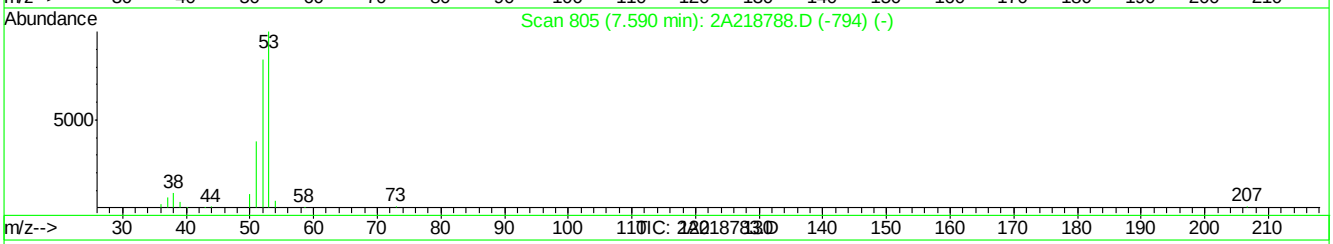
Data File : C:\MSDChem\1\DATA\V2A9511\2A218783.D Vial: 4
Acq On : 31 Jul 2022 6:19 pm Operator: PrashanS
Sample : IC9511-1 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:46:27 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
Last Update : Mon Aug 01 14:46:21 2022
Response via : Multiple Level Calibration




(32) acrylonitrile

7.61min 0.47ug/L

response 1407

| Ion | Exp% | Act% |
|---|---|---|
| 53.10 | 100 | 100 |
| 52.10 | 84.10 | 77.61 |
| 51.10 | 37.90 | 19.54 |
| 0.00 | 0.00 | 0.00 |

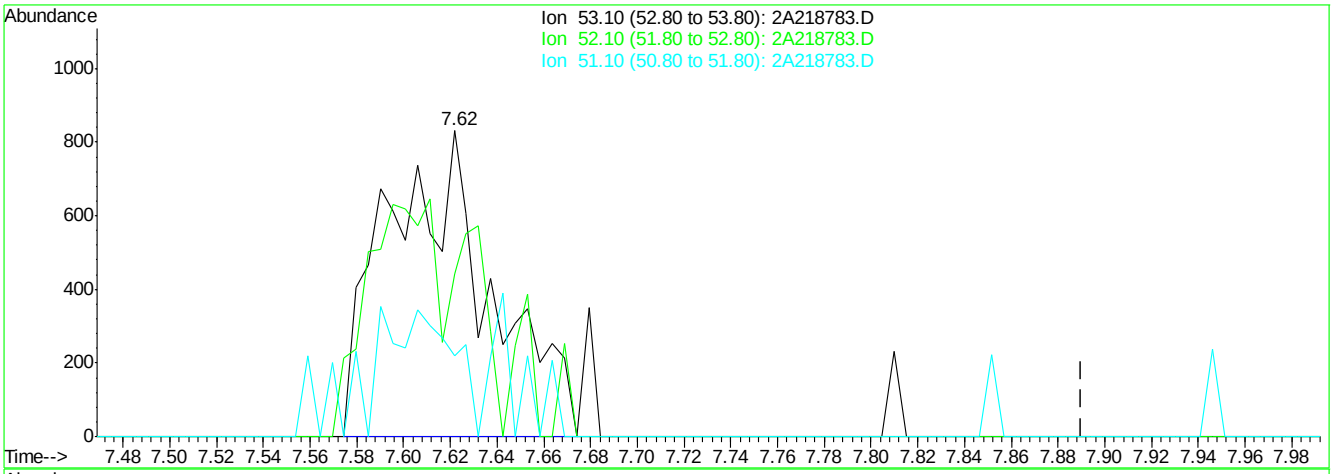
2A218783.D M2A9511.M Mon Aug 01 14:48:09 2022 MS2A

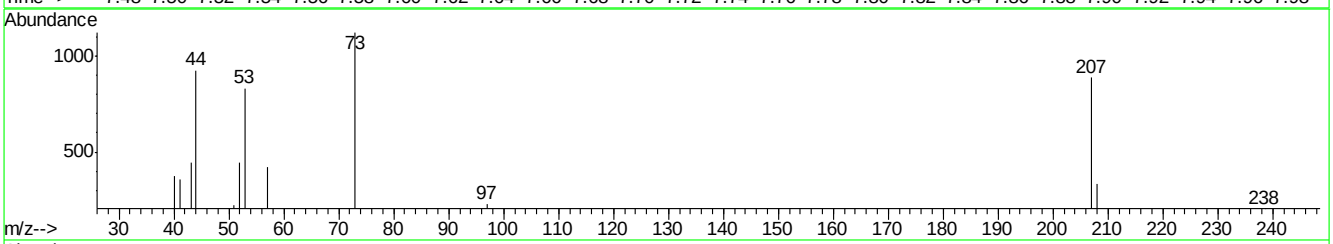
Quantitation Report (Qedit)

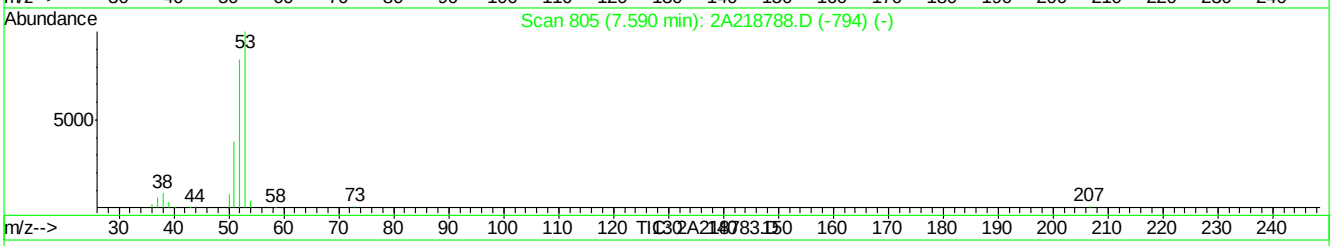
Data File : C:\MSDChem\1\DATA\V2A9511\2A218783.D Vial: 4
Acq On : 31 Jul 2022 6:19 pm Operator: PrashanS
Sample : IC9511-1 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:46:27 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
Last Update : Mon Aug 01 14:46:21 2022
Response via : Multiple Level Calibration




(32) acrylonitrile

7.62min 0.85ug/L m

response 2570

| Ion | Exp% | Act% |
|---|---|---|
| 53.10 | 100 | 100 |
| 52.10 | 84.10 | 53.06# |
| 51.10 | 37.90 | 26.41 |
| 0.00 | 0.00 | 0.00 |

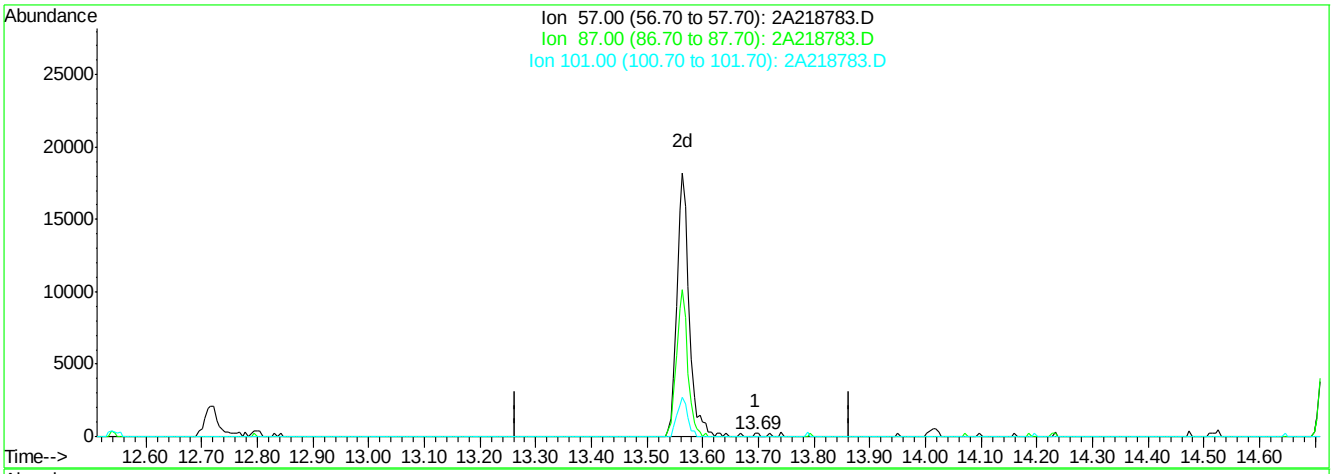
2A218783.D M2A9511.M Mon Aug 01 14:48:26 2022 MS2A

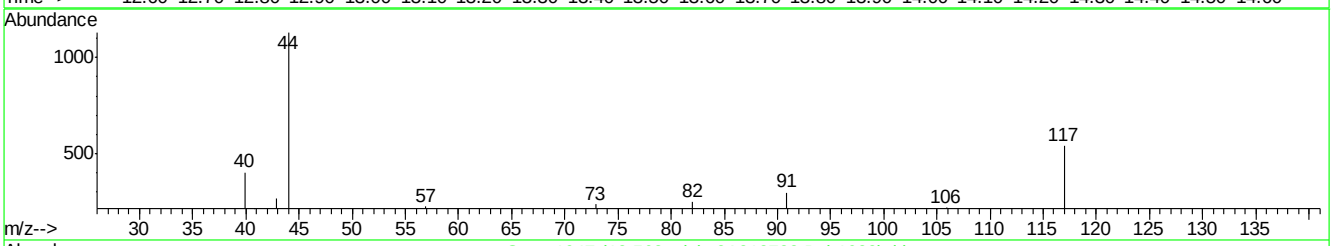
Quantitation Report (Qedit)

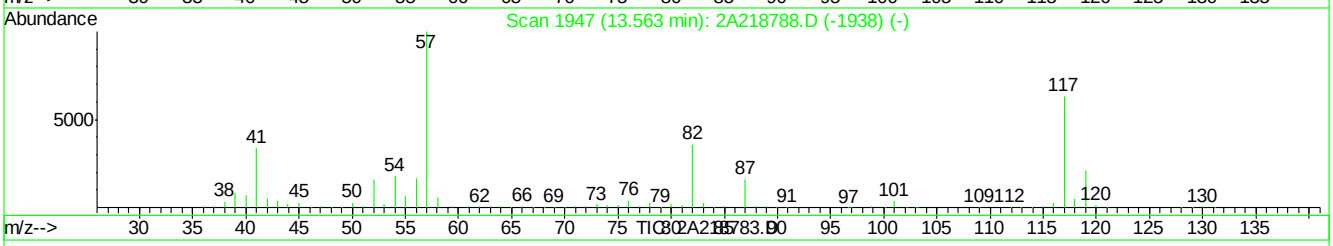
Data File : C:\MSDChem\1\DATA\V2A9511\2A218783.D Vial: 4
Acq On : 31 Jul 2022 6:19 pm Operator: PrashanS
Sample : IC9511-1 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:46:27 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
Last Update : Mon Aug 01 14:46:21 2022
Response via : Multiple Level Calibration




(84) n-butyl ether

13.69min 0.00ug/L

response 141

| Ion | Exp% | Act% |
|---|---|---|
| 57.00 | 100 | 100 |
| 87.00 | 16.10 | 0.00 |
| 101.00 | 3.80 | 0.00 |
| 0.00 | 0.00 | 0.00 |

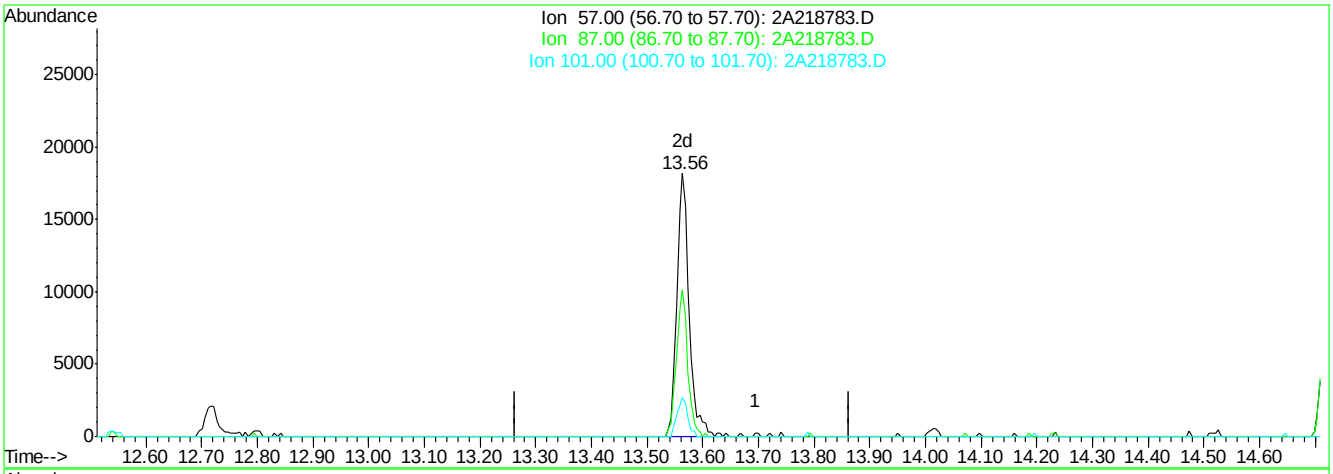
2A218783.D M2A9511.M Mon Aug 01 14:50:31 2022 MS2A

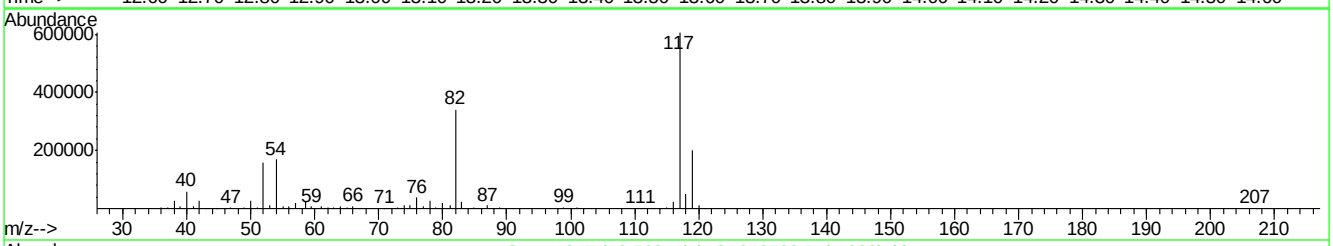
Quantitation Report (Qedit)

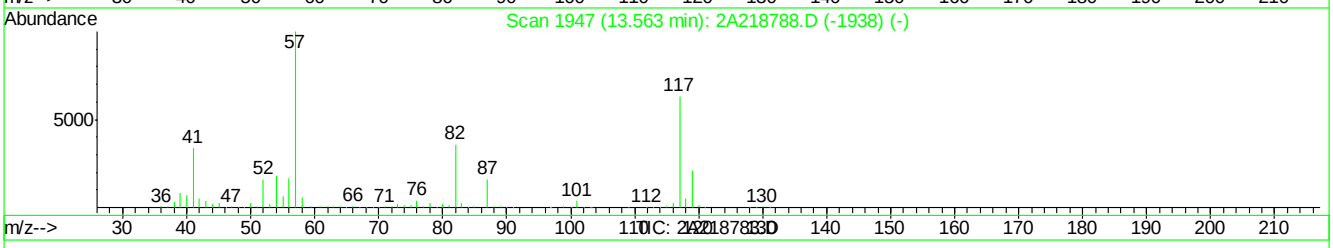
Data File : C:\MSDChem\1\DATA\V2A9511\2A218783.D Vial: 4
Acq On : 31 Jul 2022 6:19 pm Operator: PrashanS
Sample : IC9511-1 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:46:27 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
Last Update : Mon Aug 01 14:46:21 2022
Response via : Multiple Level Calibration




(84) n-butyl ether

13.56min 0.93ug/L m

response 27691

| Ion | Exp% | Act% |
|---|---|---|
| 57.00 | 100 | 100 |
| 87.00 | 16.10 | 55.73# |
| 101.00 | 3.80 | 14.75 |
| 0.00 | 0.00 | 0.00 |

2A218783.D M2A9511.M Mon Aug 01 14:50:48 2022 MS2A

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/01/22 19:36

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218784.D
Acq On : 31 Jul 2022 6:48 pm
Operator : PrashanS
Sample : IC9511-2
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 14:52:53 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
QLast Update : Mon Aug 01 14:52:17 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 406167 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.50 | 168 | 697988 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 941963 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 907257 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 496275 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.50 | 168 | 696891 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 330509 | 50.31 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.62% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 439811 | 50.21 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.42% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1112053 | 50.14 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.28% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 455531 | 49.49 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.98% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.97 | 45 | 17872 | 182.09 | ug/L | 77 |
| 3) tertiary butyl alcohol | 7.36 | 59 | 10965 | 11.05 | ug/L | 71 |
| 4) 1,4-dioxane | 11.08 | 88 | 3209 | 49.38 | ug/L | 91 |
| 6) chlorodifluoromethane | 3.99 | 51 | 20241 | 2.19 | ug/L | 96 |
| 7) dichlorodifluoromethane | 3.97 | 85 | 19834 | 2.20 | ug/L | 92 |
| 8) chloromethane | 4.34 | 50 | 27802 | 2.23 | ug/L | 90 |
| 9) vinyl chloride | 4.57 | 62 | 20617 | 2.26 | ug/L | 99 |
| 10) 1,3-butadiene | 4.61 | 54 | 17744 | 2.09 | ug/L | 86 |
| 11) bromomethane | 5.17 | 94 | 11645 | 2.07 | ug/L | 97 |
| 12) chloroethane | 5.36 | 64 | 9254 | 2.17 | ug/L | 89 |
| 13) trichlorofluoromethane | 5.80 | 101 | 23386 | 2.39 | ug/L | 87 |
| 14) ethyl ether | 6.20 | 74 | 7306 | 2.25 | ug/L | 79 |
| 15) acrolein | 6.42 | 56 | 3106m | 2.04 | ug/L | |
| 16) freon 113 | 6.61 | 151 | 10516 | 2.08 | ug/L | 87 |
| 17) 1,1-dichloroethene | 6.61 | 96 | 11256 | 2.17 | ug/L | 86 |
| 18) acetone | 6.61 | 43 | 23139 | 8.44 | ug/L | 87 |
| 19) acetonitrile | 7.03 | 41 | 23698 | 21.87 | ug/L | 84 |
| 20) iodomethane | 6.85 | 142 | 20828 | 2.05 | ug/L | 91 |
| 21) carbon disulfide | 6.99 | 76 | 36505 | 2.10 | ug/L | 95 |
| 22) methylene chloride | 7.30 | 84 | 12963 | 2.01 | ug/L | 94 |
| 23) methyl acetate | 7.06 | 43 | 14174 | 2.21 | ug/L | 98 |
| 24) methyl tert butyl ether | 7.65 | 73 | 39512 | 2.09 | ug/L | 96 |
| 25) trans-1,2-dichloroethene | 7.68 | 96 | 12951 | 2.14 | ug/L | 87 |
| 26) hexane | 8.03 | 57 | 21554 | 2.01 | ug/L | 92 |
| 27) di-isopropyl ether | 8.24 | 45 | 54810 | 2.13 | ug/L | 94 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 46689 | 2.07 | ug/L | 98 |
| 29) 2-butanone | 8.91 | 72 | 5869 | 8.57 | ug/L # | 72 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 24048 | 2.05 | ug/L | 97 |
| 31) chloroprene | 8.35 | 53 | 22218 | 2.08 | ug/L | 94 |
| 32) acrylonitrile | 7.61 | 53 | 5776 | 2.06 | ug/L | 86 |
| 33) vinyl acetate | 8.20 | 86 | 2012 | 2.15 | ug/L # | 47 |
| 34) ethyl acetate | 8.93 | 45 | 2817 | 2.42 | ug/L # | 70 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218784.D
Acq On : 31 Jul 2022 6:48 pm
Operator : PrashanS
Sample : IC9511-2
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 14:52:53 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
QLast Update : Mon Aug 01 14:52:17 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 9.00 | 77 | 18406 | 1.92 | ug/L | | 94 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 13908 | 2.13 | ug/L | | 84 |
| 37) propionitrile | 8.99 | 54 | 24115 | 22.62 | ug/L | | 90 |
| 38) bromochloromethane | 9.26 | 130 | 8988 | 2.12 | ug/L | | 98 |
| 39) tetrahydrofuran | 9.29 | 42 | 7093 | 2.23 | ug/L | | 75 |
| 40) chloroform | 9.35 | 83 | 25721 | 1.99 | ug/L | | 91 |
| 41) tert-butyl formate | 9.38 | 59 | 10968 | 1.99 | ug/L | | 97 |
| 42) isobutyl alcohol | 9.76 | 43 | 10528 | 23.48 | ug/L | # | 81 |
| 44) methacrylonitrile | 9.18 | 67 | 5507 | 2.08 | ug/L | # | 60 |
| 45) 1,1,1-trichloroethane | 9.60 | 97 | 21983 | 2.13 | ug/L | | 96 |
| 46) cyclohexane | 9.71 | 84 | 19642 | 2.38 | ug/L | | 96 |
| 47) 1,1-dichloropropene | 9.78 | 75 | 17593 | 2.08 | ug/L | | 94 |
| 48) tert-amyl alcohol | 9.92 | 73 | 5096 | 11.09 | ug/L | # | 90 |
| 49) carbon tetrachloride | 9.80 | 117 | 19503 | 2.08 | ug/L | | 88 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 55279 | 2.07 | ug/L | | 96 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 40398 | 2.02 | ug/L | | 98 |
| 54) n-butyl alcohol | 10.50 | 56 | 28065 | 122.67 | ug/L | | 97 |
| 55) benzene | 10.02 | 78 | 46496 | 2.07 | ug/L | | 98 |
| 56) heptane | 10.28 | 57 | 11654 | 2.22 | ug/L | | 88 |
| 57) isopropyl acetate | 9.93 | 87 | 2880 | 2.11 | ug/L | # | 65 |
| 58) 1,2-dichloroethane | 10.05 | 62 | 22867 | 2.09 | ug/L | | 96 |
| 59) trichloroethene | 10.75 | 95 | 13196 | 2.05 | ug/L | | 90 |
| 60) ethyl acrylate | 10.74 | 55 | 19664 | 1.99 | ug/L | | 97 |
| 61) 2-nitropropane | 11.50 | 41 | 5321 | 2.01 | ug/L | | 82 |
| 62) 2-chloroethyl vinyl ether | 11.54 | 63 | 16170 | 8.48 | ug/L | | 95 |
| 63) methyl methacrylate | 11.01 | 100 | 3050 | 2.11 | ug/L | # | 58 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 13827 | 2.13 | ug/L | | 99 |
| 65) methylcyclohexane | 11.04 | 83 | 21661 | 2.08 | ug/L | | 97 |
| 66) dibromomethane | 11.15 | 93 | 9349 | 2.09 | ug/L | | 78 |
| 67) bromodichloromethane | 11.30 | 83 | 17874 | 1.95 | ug/L | | 95 |
| 68) epichlorohydrin | 11.62 | 57 | 8486 | 11.91 | ug/L | | 90 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 20285 | 2.10 | ug/L | | 94 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 26958 | 8.79 | ug/L | | 89 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 7496 | 44.07 | ug/L | # | 87 |
| 74) toluene | 12.13 | 92 | 30603 | 2.10 | ug/L | | 99 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 19401 | 2.09 | ug/L | | 87 |
| 76) ethyl methacrylate | 12.32 | 69 | 16811 | 2.22 | ug/L | | 86 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 10138 | 2.07 | ug/L | | 93 |
| 78) 2-hexanone | 12.71 | 58 | 25343 | 8.69 | ug/L | | 92 |
| 79) tetrachloroethene | 12.68 | 166 | 15667 | 2.15 | ug/L | | 96 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 20161 | 2.07 | ug/L | | 98 |
| 81) butyl acetate | 12.79 | 56 | 10423 | 2.07 | ug/L | | 97 |
| 82) dibromochloromethane | 12.96 | 129 | 14214 | 1.99 | ug/L | | 95 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 12770 | 2.14 | ug/L | | 99 |
| 84) n-butyl ether | 13.56 | 57 | 61494 | 2.11 | ug/L | | 70 |
| 85) chlorobenzene | 13.59 | 112 | 33272 | 2.13 | ug/L | | 92 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 12812 | 2.05 | ug/L | | 93 |
| 87) ethylbenzene | 13.66 | 91 | 58980 | 2.12 | ug/L | | 94 |
| 88) m,p-xylene | 13.78 | 106 | 44686 | 4.27 | ug/L | | 99 |
| 89) o-xylene | 14.18 | 91 | 46798 | 2.08 | ug/L | | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218784.D
Acq On : 31 Jul 2022 6:48 pm
Operator : PrashanS
Sample : IC9511-2
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 14:52:53 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
QLast Update : Mon Aug 01 14:52:17 2022
Response via : Initial Calibration

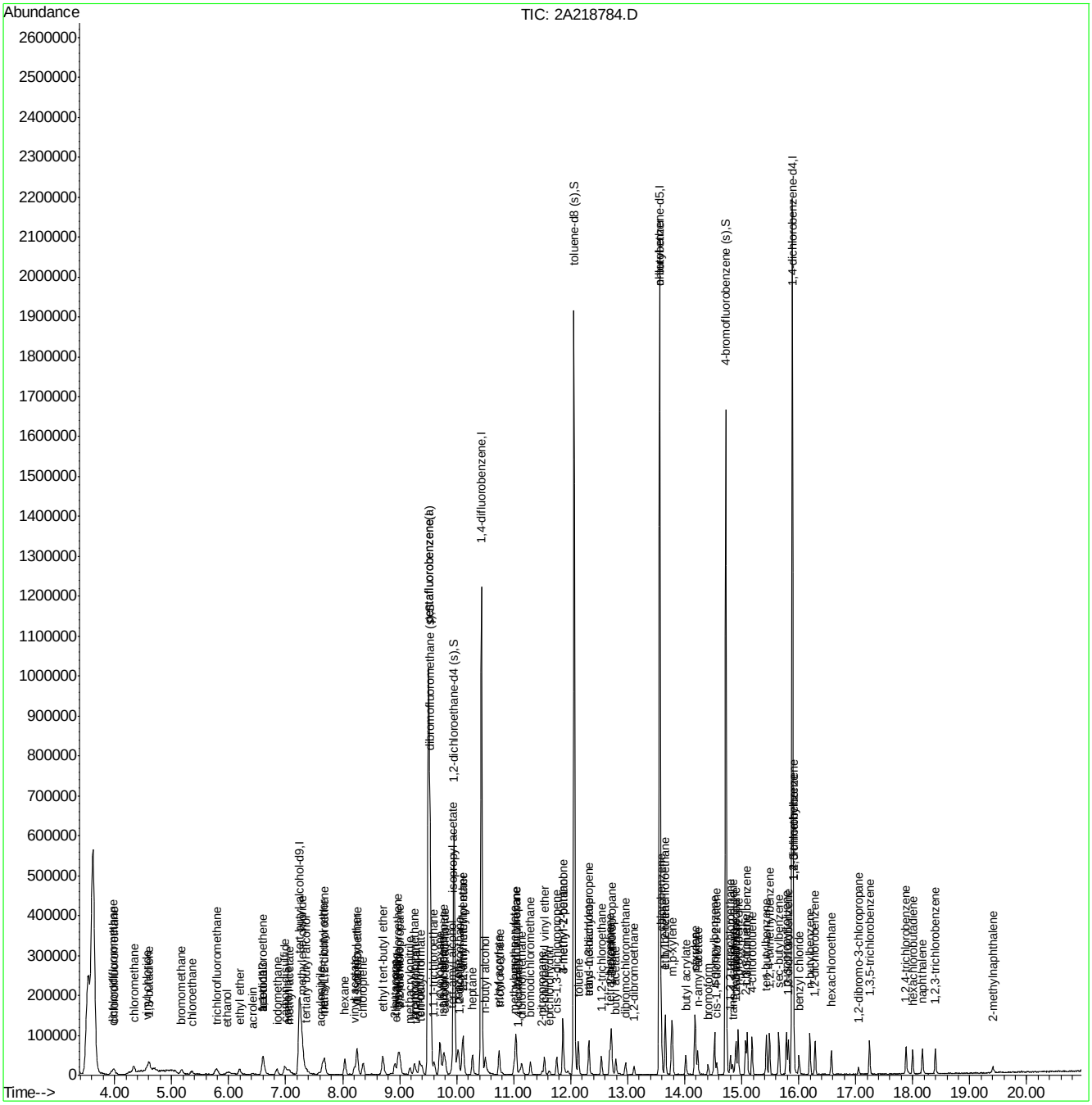
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 90) styrene | 14.19 | 104 | 36751 | 2.21 | ug/L | 95 |
| 91) n-amyl acetate | 14.23 | 70 | 9099 | 2.19 | ug/L | 89 |
| 92) bromoform | 14.41 | 173 | 10363 | 2.08 | ug/L | 93 |
| 93) butyl acrylate | 14.02 | 55 | 31834 | 2.27 | ug/L | 96 |
| 94) isopropylbenzene | 14.53 | 105 | 57577 | 2.17 | ug/L | 99 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 5382 | 2.06 | ug/L | 95 |
| 98) bromobenzene | 14.90 | 156 | 16313 | 1.98 | ug/L | 93 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 17550 | 2.08 | ug/L | 87 |
| 100) trans-1,4-dichloro-2-buten | 14.83 | 53 | 5379 | 2.09 | ug/L | 82 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 4449 | 2.12 | ug/L | 87 |
| 102) n-propylbenzene | 14.94 | 91 | 69905 | 2.14 | ug/L | 97 |
| 103) 2-chlorotoluene | 15.06 | 126 | 13917 | 1.99 | ug/L | 94 |
| 104) 4-chlorotoluene | 15.18 | 91 | 44218 | 2.16 | ug/L | 98 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 48190 | 2.16 | ug/L | 98 |
| 106) tert-butylbenzene | 15.44 | 119 | 39988 | 2.05 | ug/L | 95 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 47597 | 2.08 | ug/L | 90 |
| 108) sec-butylbenzene | 15.65 | 105 | 62703 | 2.17 | ug/L | 95 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 30917 | 2.17 | ug/L | 94 |
| 110) p-isopropyltoluene | 15.79 | 119 | 51218 | 2.05 | ug/L | 98 |
| 111) benzyl chloride | 16.01 | 91 | 27763 | 2.08 | ug/L | 98 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 50072 | 2.08 | ug/L | 93 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 31448 | 2.07 | ug/L | 99 |
| 114) 1,2-dichlorobenzene | 16.29 | 146 | 29453 | 2.12 | ug/L | 98 |
| 115) n-butylbenzene | 16.19 | 92 | 28112 | 2.23 | ug/L | 95 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 3737 | 2.22 | ug/L | 89 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 22718 | 2.10 | ug/L | 92 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 19225 | 2.16 | ug/L | 98 |
| 119) hexachlorobutadiene | 18.00 | 225 | 10068 | 2.23 | ug/L | 96 |
| 120) naphthalene | 18.17 | 128 | 46525 | 2.17 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 18839 | 2.28 | ug/L | 88 |
| 122) hexachloroethane | 16.58 | 201 | 7843 | 2.15 | ug/L | 92 |
| 123) 2-methylnaphthalene | 19.41 | 142 | 8512 | 0.68 | ug/L | 92 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218784.D
Acq On : 31 Jul 2022 6:48 pm
Operator : PrashanS
Sample : IC9511-2
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 14:52:53 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
QLast Update : Mon Aug 01 14:52:17 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | V2A9511-IC9511 | **Method:** | SW846 8260D |
| **Lab FileID:** | 2A218784.D | **Analyst approved:** | 08/01/22 15:32 MoHui Huang |
| **Injection Time:** | 07/31/22 18:48 | **Supervisor approved:** | 08/01/22 19:36 Kanya Veerawat |

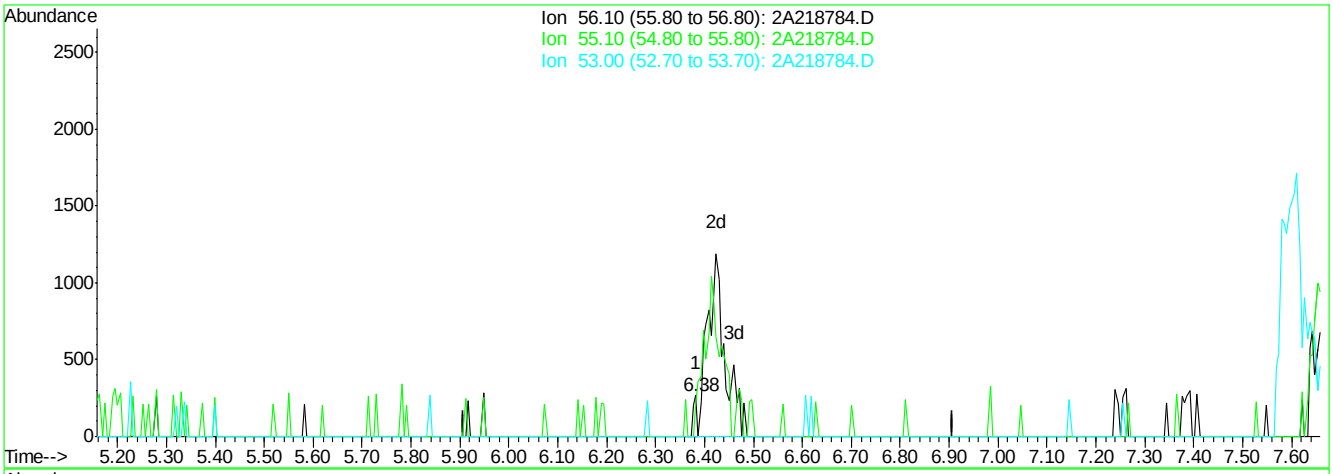
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Acrolein | 107-02-8 | | 6.42 | Missed peak |

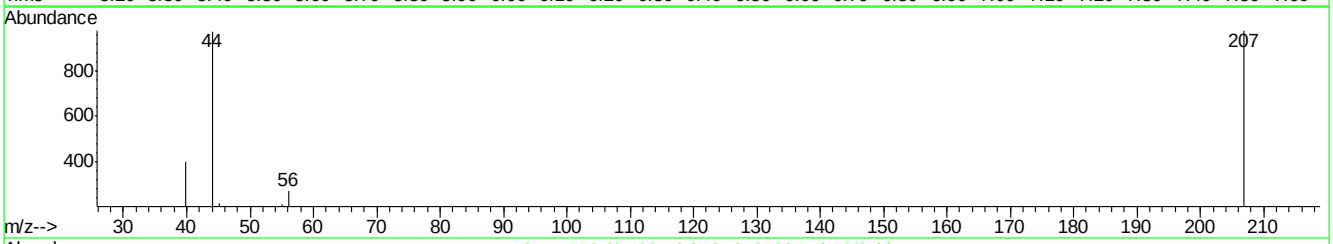
Quantitation Report (Qedit)

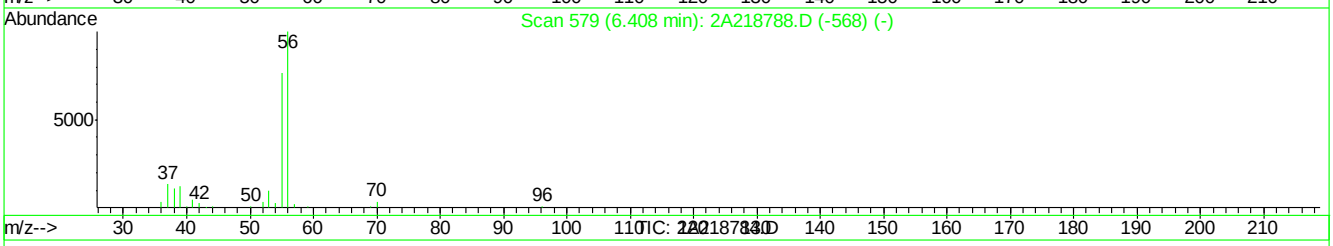
Data File : C:\MSDChem\1\DATA\V2A9511\2A218784.D Vial: 5
Acq On : 31 Jul 2022 6:48 pm Operator: PrashanS
Sample : IC9511-2 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:52:22 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:52:17 2022
Last Update : Mon Aug 01 14:52:17 2022
Response via : Multiple Level Calibration




(15) acrolein

6.38min 0.10ug/L

response 148

| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 100 |
| 55.10 | 76.40 | 79.18 |
| 53.00 | 9.70 | 0.00 |
| 0.00 | 0.00 | 0.00 |

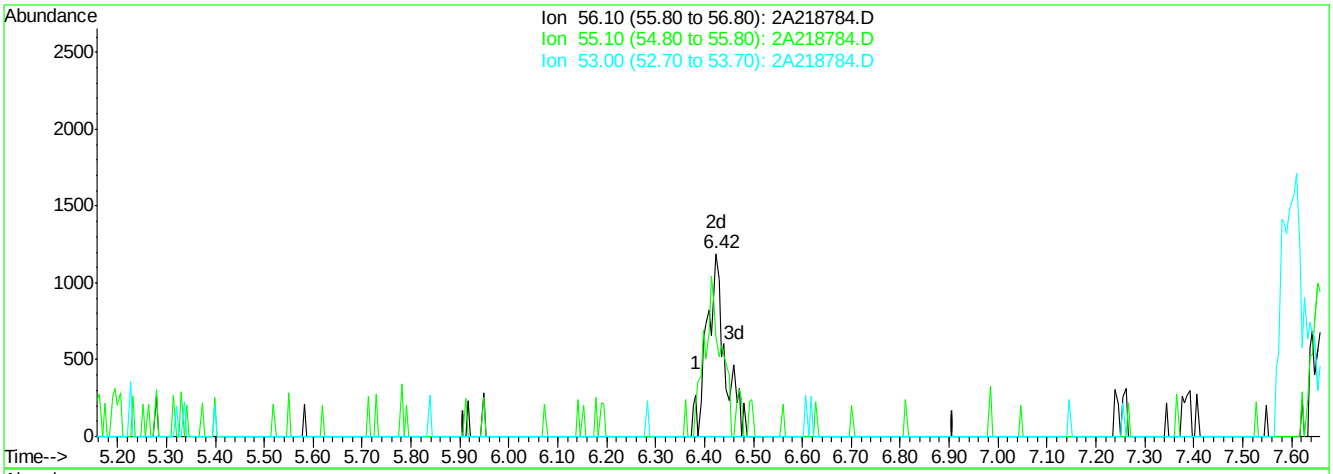
2A218784.D M2A9511.M Mon Aug 01 14:52:42 2022 MS2A

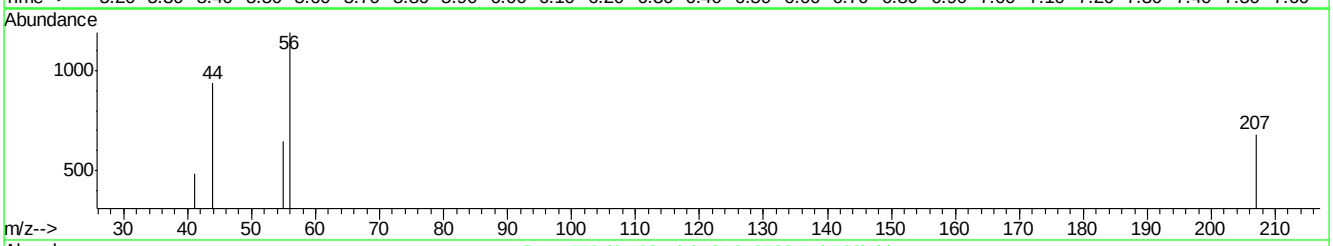
Quantitation Report (Qedit)

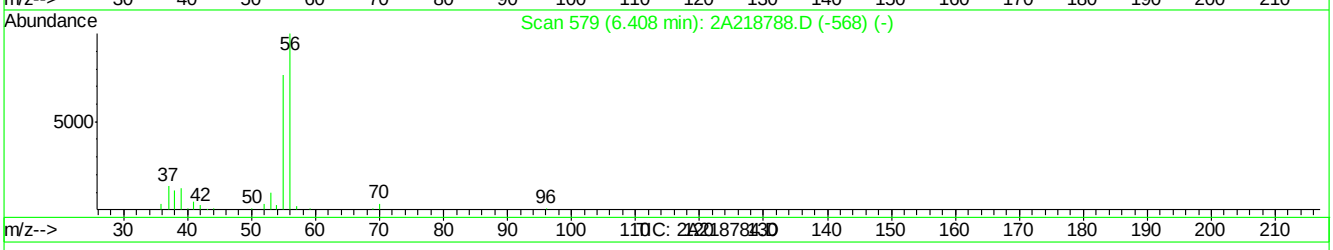
Data File : C:\MSDChem\1\DATA\V2A9511\2A218784.D Vial: 5
Acq On : 31 Jul 2022 6:48 pm Operator: PrashanS
Sample : IC9511-2 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:52:22 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:52:17 2022
Last Update : Mon Aug 01 14:52:17 2022
Response via : Multiple Level Calibration




(15) acrolein

6.42min 2.04ug/L m

response 3106

| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 100 |
| 55.10 | 76.40 | 54.50 |
| 53.00 | 9.70 | 0.00 |
| 0.00 | 0.00 | 0.00 |

2A218784.D M2A9511.M Mon Aug 01 14:52:58 2022 MS2A

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218785.D
Acq On : 31 Jul 2022 7:16 pm
Operator : PrashanS
Sample : IC9511-4
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 14:54:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:52:17 2022
QLast Update : Mon Aug 01 14:54:29 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.26 | 65 | 416050 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 695431 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 940726 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 905476 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 493868 | 50.00 | ug/L | | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 694712 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 328927 | 50.19 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.38% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 436131 | 49.81 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.62% | | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1111069 | 50.17 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.34% | | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 457236 | 50.02 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.04% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 39993 | 410.04 | ug/L | | 90 |
| 3) tertiary butyl alcohol | 7.37 | 59 | 19436 | 18.47 | ug/L | | 82 |
| 4) 1,4-dioxane | 11.08 | 88 | 7131 | 107.58 | ug/L | | 88 |
| 6) chlorodifluoromethane | 4.00 | 51 | 41773 | 4.43 | ug/L | | 99 |
| 7) dichlorodifluoromethane | 3.97 | 85 | 40185 | 4.36 | ug/L | | 97 |
| 8) chloromethane | 4.35 | 50 | 50924 | 3.98 | ug/L | | 94 |
| 9) vinyl chloride | 4.58 | 62 | 39185 | 4.18 | ug/L | | 97 |
| 10) 1,3-butadiene | 4.62 | 54 | 35609 | 4.16 | ug/L | | 92 |
| 11) bromomethane | 5.19 | 94 | 22658 | 4.01 | ug/L | | 85 |
| 12) chloroethane | 5.35 | 64 | 18524 | 4.28 | ug/L | | 89 |
| 13) trichlorofluoromethane | 5.80 | 101 | 44832 | 4.42 | ug/L | | 92 |
| 14) ethyl ether | 6.18 | 74 | 13322 | 4.00 | ug/L | | 84 |
| 15) acrolein | 6.42 | 56 | 4838 | 3.16 | ug/L | # | 39 |
| 16) freon 113 | 6.60 | 151 | 20536 | 4.04 | ug/L | # | 82 |
| 17) 1,1-dichloroethene | 6.61 | 96 | 21499 | 4.07 | ug/L | | 87 |
| 18) acetone | 6.62 | 43 | 43764 | 15.80 | ug/L | | 97 |
| 19) acetonitrile | 7.04 | 41 | 47369 | 42.87 | ug/L | | 88 |
| 20) iodomethane | 6.85 | 142 | 42592 | 4.18 | ug/L | | 92 |
| 21) carbon disulfide | 6.99 | 76 | 71073 | 4.05 | ug/L | | 96 |
| 22) methylene chloride | 7.31 | 84 | 25118 | 3.90 | ug/L | | 96 |
| 23) methyl acetate | 7.06 | 43 | 27246 | 4.15 | ug/L | | 98 |
| 24) methyl tert butyl ether | 7.65 | 73 | 76409 | 4.03 | ug/L | | 96 |
| 25) trans-1,2-dichloroethene | 7.69 | 96 | 23706 | 3.87 | ug/L | | 93 |
| 26) hexane | 8.05 | 57 | 42446 | 3.97 | ug/L | | 92 |
| 27) di-isopropyl ether | 8.26 | 45 | 106836 | 4.11 | ug/L | | 94 |
| 28) ethyl tert-butyl ether | 8.70 | 59 | 92606 | 4.09 | ug/L | | 92 |
| 29) 2-butanone | 8.91 | 72 | 11519 | 16.49 | ug/L | # | 88 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 45484 | 3.88 | ug/L | | 95 |
| 31) chloroprene | 8.36 | 53 | 44508 | 4.14 | ug/L | | 95 |
| 32) acrylonitrile | 7.60 | 53 | 11747 | 4.16 | ug/L | | 96 |
| 33) vinyl acetate | 8.20 | 86 | 4169 | 4.36 | ug/L | # | 74 |
| 34) ethyl acetate | 8.92 | 45 | 5537 | 4.46 | ug/L | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218785.D
Acq On : 31 Jul 2022 7:16 pm
Operator : PrashanS
Sample : IC9511-4
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 14:54:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:52:17 2022
QLast Update : Mon Aug 01 14:54:29 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 9.00 | 77 | 37380 | 3.95 | ug/L | | 96 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 26119 | 3.97 | ug/L | | 96 |
| 37) propionitrile | 8.99 | 54 | 44964 | 40.99 | ug/L | | 96 |
| 38) bromochloromethane | 9.26 | 130 | 17287 | 4.03 | ug/L | | 95 |
| 39) tetrahydrofuran | 9.28 | 42 | 13069 | 3.97 | ug/L | | 96 |
| 40) chloroform | 9.35 | 83 | 47228 | 3.67 | ug/L | | 96 |
| 41) tert-butyl formate | 9.38 | 59 | 23296 | 4.24 | ug/L | | 89 |
| 42) isobutyl alcohol | 9.76 | 43 | 17304 | 36.61 | ug/L | # | 71 |
| 44) methacrylonitrile | 9.19 | 67 | 11327 | 4.24 | ug/L | # | 76 |
| 45) 1,1,1-trichloroethane | 9.61 | 97 | 43710 | 4.19 | ug/L | | 96 |
| 46) cyclohexane | 9.71 | 84 | 36620 | 4.28 | ug/L | # | 77 |
| 47) 1,1-dichloropropene | 9.77 | 75 | 34037 | 4.00 | ug/L | | 89 |
| 48) tert-amyl alcohol | 9.92 | 73 | 9340 | 19.69 | ug/L | # | 85 |
| 49) carbon tetrachloride | 9.80 | 117 | 38452 | 4.08 | ug/L | | 92 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 109579 | 4.07 | ug/L | | 97 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 80456 | 4.02 | ug/L | | 99 |
| 54) n-butyl alcohol | 10.50 | 56 | 46816 | 193.91 | ug/L | | 98 |
| 55) benzene | 10.02 | 78 | 93859 | 4.15 | ug/L | | 97 |
| 56) heptane | 10.28 | 57 | 21696 | 4.05 | ug/L | | 94 |
| 57) isopropyl acetate | 9.94 | 87 | 5314 | 3.82 | ug/L | # | 65 |
| 58) 1,2-dichloroethane | 10.05 | 62 | 41512 | 3.75 | ug/L | | 98 |
| 59) trichloroethene | 10.74 | 95 | 26358 | 4.08 | ug/L | | 90 |
| 60) ethyl acrylate | 10.74 | 55 | 41329 | 4.19 | ug/L | | 97 |
| 61) 2-nitropropane | 11.50 | 41 | 9785 | 3.70 | ug/L | | 94 |
| 62) 2-chloroethyl vinyl ether | 11.54 | 63 | 39545 | 21.59 | ug/L | | 96 |
| 63) methyl methacrylate | 11.01 | 100 | 6410 | 4.36 | ug/L | | 92 |
| 64) 1,2-dichloropropane | 11.04 | 63 | 28062 | 4.25 | ug/L | | 95 |
| 65) methylcyclohexane | 11.04 | 83 | 43915 | 4.19 | ug/L | | 96 |
| 66) dibromomethane | 11.14 | 93 | 17112 | 3.80 | ug/L | | 85 |
| 67) bromodichloromethane | 11.30 | 83 | 36320 | 3.99 | ug/L | | 98 |
| 68) epichlorohydrin | 11.63 | 57 | 15785 | 20.86 | ug/L | | 93 |
| 69) cis-1,3-dichloropropene | 11.76 | 75 | 40876 | 4.20 | ug/L | | 95 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 50307 | 16.11 | ug/L | # | 79 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 16276 | 93.43 | ug/L | | 92 |
| 74) toluene | 12.14 | 92 | 59484 | 4.05 | ug/L | | 95 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 40742 | 4.37 | ug/L | | 94 |
| 76) ethyl methacrylate | 12.32 | 69 | 33784 | 4.36 | ug/L | | 96 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 20648 | 4.20 | ug/L | | 94 |
| 78) 2-hexanone | 12.71 | 58 | 49528 | 16.66 | ug/L | | 94 |
| 79) tetrachloroethene | 12.69 | 166 | 29311 | 3.97 | ug/L | | 91 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 38316 | 3.91 | ug/L | | 98 |
| 81) butyl acetate | 12.79 | 56 | 20094 | 3.96 | ug/L | | 97 |
| 82) dibromochloromethane | 12.96 | 129 | 29545 | 4.15 | ug/L | | 94 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 25754 | 4.27 | ug/L | | 96 |
| 84) n-butyl ether | 13.56 | 57 | 123434 | 4.20 | ug/L | | 91 |
| 85) chlorobenzene | 13.59 | 112 | 66832 | 4.23 | ug/L | | 90 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 25726 | 4.11 | ug/L | | 87 |
| 87) ethylbenzene | 13.66 | 91 | 117611 | 4.18 | ug/L | | 95 |
| 88) m,p-xylene | 13.78 | 106 | 88253 | 8.33 | ug/L | | 94 |
| 89) o-xylene | 14.18 | 91 | 95915 | 4.24 | ug/L | | 93 |

# Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218785.D
Acq On : 31 Jul 2022 7:16 pm
Operator : PrashanS
Sample : IC9511-4
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 14:54:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:52:17 2022
QLast Update : Mon Aug 01 14:54:29 2022
Response via : Initial Calibration

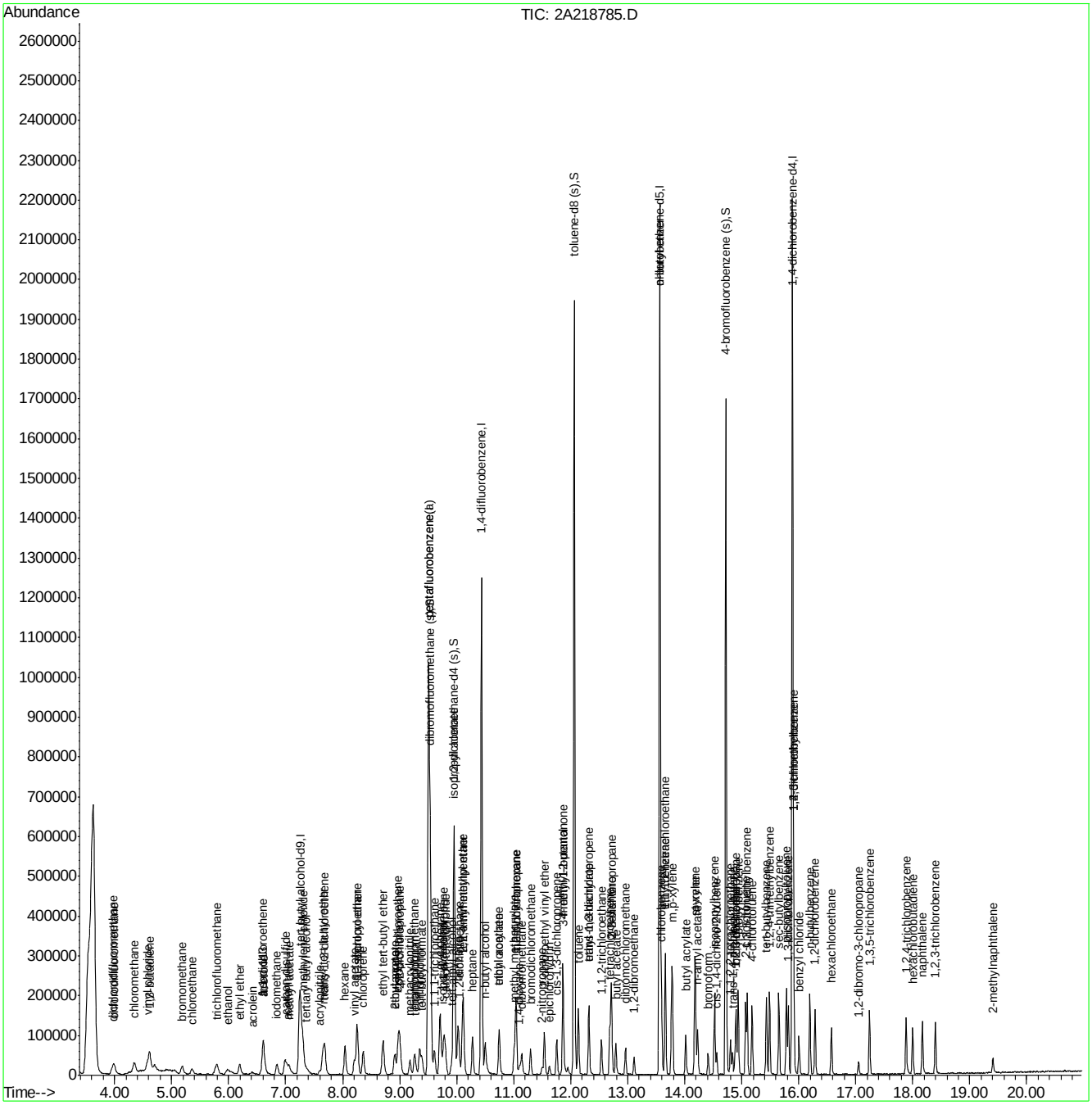
| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 90) styrene | 14.19 | 104 | 71154 | 4.20 | ug/L | | 98 |
| 91) n-amyl acetate | 14.23 | 70 | 17819 | 4.20 | ug/L | | 94 |
| 92) bromoform | 14.41 | 173 | 20992 | 4.19 | ug/L | | 96 |
| 93) butyl acrylate | 14.02 | 55 | 64539 | 4.46 | ug/L | | 96 |
| 94) isopropylbenzene | 14.53 | 105 | 111766 | 4.15 | ug/L | | 96 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 10523 | 4.00 | ug/L | | 97 |
| 98) bromobenzene | 14.90 | 156 | 31569 | 3.86 | ug/L | | 95 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 35136 | 4.15 | ug/L | | 91 |
| 100) trans-1,4-dichloro-2-buten | 14.84 | 53 | 11116 | 4.27 | ug/L | | 84 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 9384 | 4.43 | ug/L | | 81 |
| 102) n-propylbenzene | 14.94 | 91 | 139672 | 4.24 | ug/L | | 92 |
| 103) 2-chlorotoluene | 15.07 | 126 | 28405 | 4.09 | ug/L | # | 84 |
| 104) 4-chlorotoluene | 15.18 | 91 | 87076 | 4.21 | ug/L | | 96 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 93347 | 4.13 | ug/L | | 97 |
| 106) tert-butylbenzene | 15.44 | 119 | 81196 | 4.16 | ug/L | | 89 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 96661 | 4.21 | ug/L | | 92 |
| 108) sec-butylbenzene | 15.66 | 105 | 123540 | 4.22 | ug/L | | 98 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 58501 | 4.05 | ug/L | | 97 |
| 110) p-isopropyltoluene | 15.79 | 119 | 103061 | 4.12 | ug/L | | 96 |
| 111) benzyl chloride | 16.01 | 91 | 55672 | 4.14 | ug/L | | 95 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 97384 | 4.03 | ug/L | | 99 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 60620 | 3.98 | ug/L | | 98 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 57365 | 4.10 | ug/L | | 97 |
| 115) n-butylbenzene | 16.19 | 92 | 53488 | 4.17 | ug/L | | 89 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 6616 | 3.85 | ug/L | | 95 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 45057 | 4.14 | ug/L | | 95 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 38819 | 4.31 | ug/L | | 95 |
| 119) hexachlorobutadiene | 18.00 | 225 | 20451 | 4.45 | ug/L | | 92 |
| 120) naphthalene | 18.17 | 128 | 92151 | 4.25 | ug/L | | 100 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 36433 | 4.30 | ug/L | | 93 |
| 122) hexachloroethane | 16.58 | 201 | 15640 | 4.25 | ug/L | | 93 |
| 123) 2-methylnaphthalene | 19.41 | 142 | 19109 | 1.82 | ug/L | | 94 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218785.D
Acq On : 31 Jul 2022 7:16 pm
Operator : PrashanS
Sample : IC9511-4
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 14:54:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:52:17 2022
QLast Update : Mon Aug 01 14:54:29 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218786.D
Acq On : 31 Jul 2022 7:44 pm
Operator : PrashanS
Sample : IC9511-8
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 14:55:38 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:54:29 2022
QLast Update : Mon Aug 01 14:55:32 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 418813 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 9.50 | 168 | 706121 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 10.43 | 114 | 949113 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 908425 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 491314 | 50.00 | ug/L | | 0.00 |
| 124) pentafluorobenzene(a) | 9.50 | 168 | 704095 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 333336 | 50.06 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.12% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 441213 | 49.98 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.96% | | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1121126 | 50.43 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.86% | | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 460961 | 50.69 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.38% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 78246 | 791.97 | ug/L | | 97 |
| 3) tertiary butyl alcohol | 7.36 | 59 | 39981 | 38.48 | ug/L | | 91 |
| 4) 1,4-dioxane | 11.08 | 88 | 14933 | 219.63 | ug/L | | 93 |
| 6) chlorodifluoromethane | 3.99 | 51 | 83330 | 8.52 | ug/L | | 100 |
| 7) dichlorodifluoromethane | 3.96 | 85 | 78979 | 8.29 | ug/L | | 97 |
| 8) chloromethane | 4.34 | 50 | 97953 | 7.55 | ug/L | | 93 |
| 9) vinyl chloride | 4.57 | 62 | 76494 | 7.96 | ug/L | | 99 |
| 10) 1,3-butadiene | 4.61 | 54 | 69401 | 7.92 | ug/L | | 93 |
| 11) bromomethane | 5.18 | 94 | 42067 | 7.32 | ug/L | | 97 |
| 12) chloroethane | 5.35 | 64 | 34672 | 7.77 | ug/L | | 90 |
| 13) trichlorofluoromethane | 5.79 | 101 | 85861 | 8.19 | ug/L | | 96 |
| 14) ethyl ether | 6.19 | 74 | 26723 | 7.90 | ug/L | | 89 |
| 15) acrolein | 6.41 | 56 | 12176 | 8.27 | ug/L | | 81 |
| 16) freon 113 | 6.61 | 151 | 40048 | 7.74 | ug/L | | 91 |
| 17) 1,1-dichloroethene | 6.60 | 96 | 43186 | 8.02 | ug/L | | 97 |
| 18) acetone | 6.61 | 43 | 87554 | 31.21 | ug/L | | 93 |
| 19) acetonitrile | 7.03 | 41 | 89184 | 78.36 | ug/L | | 94 |
| 20) iodomethane | 6.85 | 142 | 84732 | 8.14 | ug/L | | 97 |
| 21) carbon disulfide | 6.98 | 76 | 144162 | 8.07 | ug/L | | 98 |
| 22) methylene chloride | 7.30 | 84 | 48712 | 7.49 | ug/L | | 98 |
| 23) methyl acetate | 7.06 | 43 | 57923 | 8.63 | ug/L | | 92 |
| 24) methyl tert butyl ether | 7.66 | 73 | 151461 | 7.85 | ug/L | | 95 |
| 25) trans-1,2-dichloroethene | 7.68 | 96 | 47146 | 7.63 | ug/L | | 83 |
| 26) hexane | 8.04 | 57 | 86226 | 7.96 | ug/L | | 97 |
| 27) di-isopropyl ether | 8.25 | 45 | 216275 | 8.16 | ug/L | | 93 |
| 28) ethyl tert-butyl ether | 8.70 | 59 | 184885 | 8.01 | ug/L | | 100 |
| 29) 2-butanone | 8.90 | 72 | 22983 | 32.16 | ug/L | # | 78 |
| 30) 1,1-dichloroethane | 8.25 | 63 | 95656 | 8.07 | ug/L | | 99 |
| 31) chloroprene | 8.36 | 53 | 93907 | 8.56 | ug/L | | 95 |
| 32) acrylonitrile | 7.59 | 53 | 24198 | 8.35 | ug/L | | 92 |
| 33) vinyl acetate | 8.20 | 86 | 9718 | 9.79 | ug/L | # | 50 |
| 34) ethyl acetate | 8.93 | 45 | 11952 | 9.22 | ug/L | | 92 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218786.D
Acq On : 31 Jul 2022 7:44 pm
Operator : PrashanS
Sample : IC9511-8
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 14:55:38 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:54:29 2022
QLast Update : Mon Aug 01 14:55:32 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 9.00 | 77 | 76411 | 7.96 | ug/L | | 96 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 54158 | 8.11 | ug/L | | 92 |
| 37) propionitrile | 8.98 | 54 | 91959 | 82.16 | ug/L | | 96 |
| 38) bromochloromethane | 9.26 | 130 | 36441 | 8.36 | ug/L | | 94 |
| 39) tetrahydrofuran | 9.28 | 42 | 24369 | 7.30 | ug/L | | 90 |
| 40) chloroform | 9.35 | 83 | 95963 | 7.46 | ug/L | | 99 |
| 41) tert-butyl formate | 9.38 | 59 | 47036 | 8.35 | ug/L | | 91 |
| 42) isobutyl alcohol | 9.75 | 43 | 38458 | 81.88 | ug/L | | 89 |
| 44) methacrylonitrile | 9.18 | 67 | 21923 | 7.96 | ug/L | | 86 |
| 45) 1,1,1-trichloroethane | 9.60 | 97 | 85157 | 7.98 | ug/L | | 99 |
| 46) cyclohexane | 9.71 | 84 | 70715 | 8.05 | ug/L | | 85 |
| 47) 1,1-dichloropropene | 9.77 | 75 | 69956 | 8.10 | ug/L | | 94 |
| 48) tert-amyl alcohol | 9.90 | 73 | 18623 | 38.81 | ug/L | # | 73 |
| 49) carbon tetrachloride | 9.80 | 117 | 79510 | 8.29 | ug/L | | 96 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 225532 | 8.28 | ug/L | | 98 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 159347 | 7.89 | ug/L | | 94 |
| 54) n-butyl alcohol | 10.50 | 56 | 95119 | 392.88 | ug/L | | 98 |
| 55) benzene | 10.02 | 78 | 191197 | 8.33 | ug/L | | 96 |
| 56) heptane | 10.28 | 57 | 45598 | 8.41 | ug/L | | 96 |
| 57) isopropyl acetate | 9.93 | 87 | 11876 | 8.57 | ug/L | | 96 |
| 58) 1,2-dichloroethane | 10.04 | 62 | 86511 | 7.85 | ug/L | | 99 |
| 59) trichloroethene | 10.74 | 95 | 53291 | 8.15 | ug/L | | 97 |
| 60) ethyl acrylate | 10.74 | 55 | 84568 | 8.42 | ug/L | | 97 |
| 61) 2-nitropropane | 11.50 | 41 | 21429 | 8.18 | ug/L | | 93 |
| 62) 2-chloroethyl vinyl ether | 11.54 | 63 | 94301 | 50.23 | ug/L | | 98 |
| 63) methyl methacrylate | 11.00 | 100 | 13754 | 9.07 | ug/L | # | 85 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 56303 | 8.35 | ug/L | | 95 |
| 65) methylcyclohexane | 11.04 | 83 | 86472 | 8.11 | ug/L | | 99 |
| 66) dibromomethane | 11.14 | 93 | 34617 | 7.69 | ug/L | | 91 |
| 67) bromodichloromethane | 11.29 | 83 | 75602 | 8.23 | ug/L | | 97 |
| 68) epichlorohydrin | 11.62 | 57 | 32644 | 42.30 | ug/L | | 98 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 83141 | 8.40 | ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 104298 | 33.07 | ug/L | | 92 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 31962 | 175.95 | ug/L | | 86 |
| 74) toluene | 12.14 | 92 | 118849 | 8.05 | ug/L | | 93 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 81969 | 8.62 | ug/L | | 98 |
| 76) ethyl methacrylate | 12.32 | 69 | 70711 | 8.93 | ug/L | | 96 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 41515 | 8.34 | ug/L | | 95 |
| 78) 2-hexanone | 12.71 | 58 | 100140 | 33.29 | ug/L | | 97 |
| 79) tetrachloroethene | 12.68 | 166 | 58808 | 7.95 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 78063 | 7.97 | ug/L | | 97 |
| 81) butyl acetate | 12.79 | 56 | 42776 | 8.42 | ug/L | # | 83 |
| 82) dibromochloromethane | 12.96 | 129 | 59836 | 8.33 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 51940 | 8.49 | ug/L | | 99 |
| 84) n-butyl ether | 13.56 | 57 | 249852 | 8.41 | ug/L | | 94 |
| 85) chlorobenzene | 13.59 | 112 | 135205 | 8.44 | ug/L | | 94 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 53243 | 8.43 | ug/L | | 95 |
| 87) ethylbenzene | 13.66 | 91 | 234579 | 8.25 | ug/L | | 94 |
| 88) m,p-xylene | 13.78 | 106 | 178223 | 16.65 | ug/L | | 89 |
| 89) o-xylene | 14.18 | 91 | 189640 | 8.27 | ug/L | | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218786.D
Acq On : 31 Jul 2022 7:44 pm
Operator : PrashanS
Sample : IC9511-8
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 14:55:38 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:54:29 2022
QLast Update : Mon Aug 01 14:55:32 2022
Response via : Initial Calibration

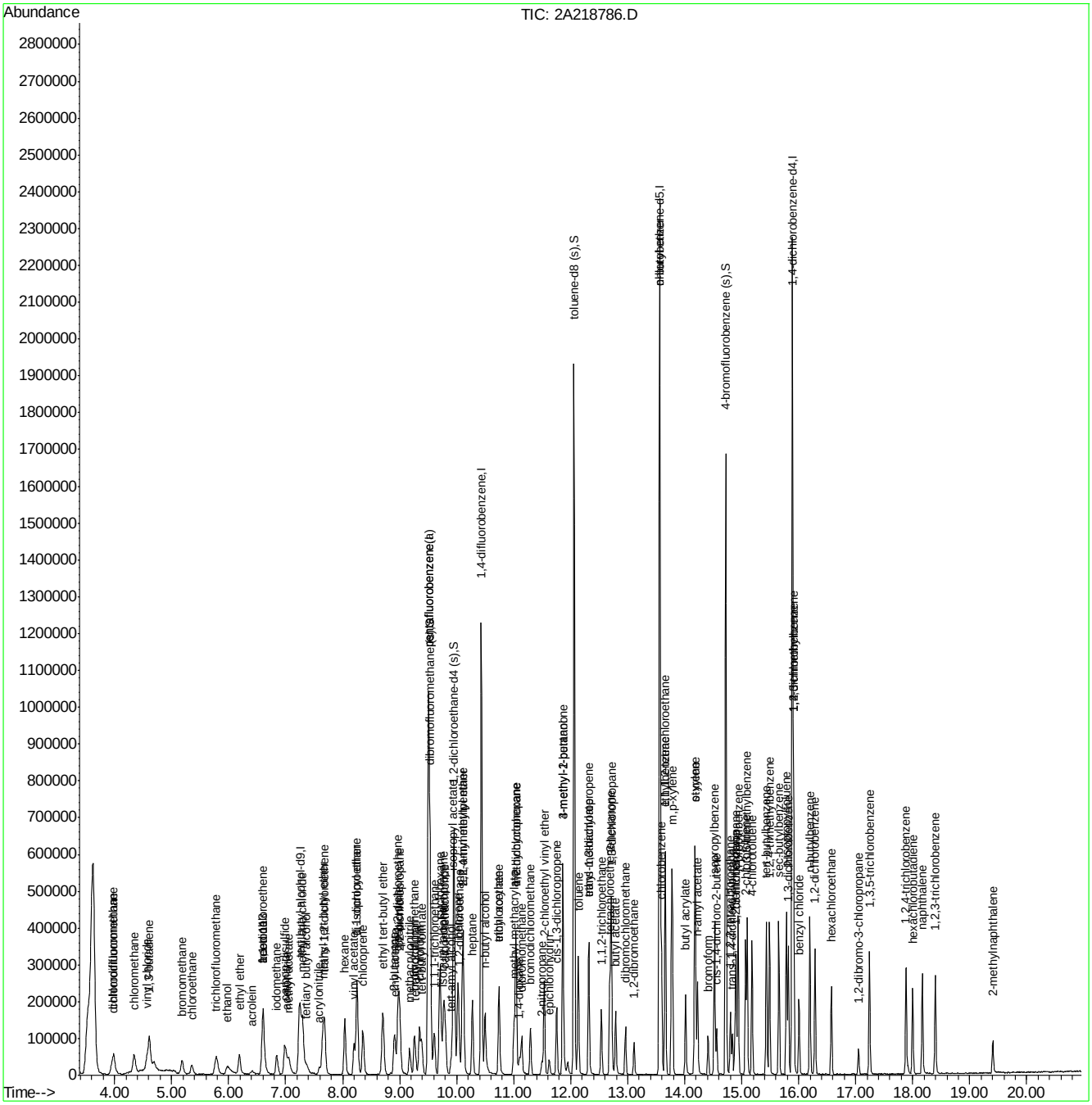
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 90) styrene | 14.19 | 104 | 149627 | 8.74 | ug/L | 97 |
| 91) n-amyl acetate | 14.22 | 70 | 37199 | 8.66 | ug/L | 97 |
| 92) bromoform | 14.41 | 173 | 42397 | 8.37 | ug/L | 97 |
| 93) butyl acrylate | 14.01 | 55 | 132813 | 8.94 | ug/L | 97 |
| 94) isopropylbenzene | 14.53 | 105 | 231604 | 8.51 | ug/L | 97 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 22743 | 8.62 | ug/L | 89 |
| 98) bromobenzene | 14.90 | 156 | 65047 | 8.03 | ug/L | 94 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 69378 | 8.19 | ug/L | 97 |
| 100) trans-1,4-dichloro-2-buten | 14.83 | 53 | 22795 | 8.66 | ug/L | 97 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 17489 | 8.13 | ug/L | 95 |
| 102) n-propylbenzene | 14.94 | 91 | 281415 | 8.51 | ug/L | 96 |
| 103) 2-chlorotoluene | 15.07 | 126 | 57655 | 8.31 | ug/L | 96 |
| 104) 4-chlorotoluene | 15.18 | 91 | 172721 | 8.31 | ug/L | 97 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 192735 | 8.53 | ug/L | 99 |
| 106) tert-butylbenzene | 15.43 | 119 | 163544 | 8.37 | ug/L | 98 |
| 107) 1,2,4-trimethylbenzene | 15.48 | 105 | 196793 | 8.55 | ug/L | 94 |
| 108) sec-butylbenzene | 15.65 | 105 | 249910 | 8.51 | ug/L | 97 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 118333 | 8.22 | ug/L | 94 |
| 110) p-isopropyltoluene | 15.79 | 119 | 210696 | 8.43 | ug/L | 95 |
| 111) benzyl chloride | 16.01 | 91 | 117582 | 8.73 | ug/L | 96 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 196777 | 8.17 | ug/L | 95 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 121274 | 8.01 | ug/L | 97 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 117887 | 8.44 | ug/L | 98 |
| 115) n-butylbenzene | 16.19 | 92 | 111412 | 8.67 | ug/L | 88 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 16157 | 9.51 | ug/L | 86 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 90238 | 8.29 | ug/L | 97 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 78595 | 8.66 | ug/L | 99 |
| 119) hexachlorobutadiene | 18.00 | 225 | 41561 | 8.92 | ug/L | 95 |
| 120) naphthalene | 18.17 | 128 | 190936 | 8.76 | ug/L | 100 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 73567 | 8.63 | ug/L | 99 |
| 122) hexachloroethane | 16.58 | 201 | 35209 | 9.52 | ug/L | 94 |
| 123) 2-methylnaphthalene | 19.41 | 142 | 42684 | 4.21 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218786.D
Acq On : 31 Jul 2022 7:44 pm
Operator : PrashanS
Sample : IC9511-8
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 14:55:38 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:54:29 2022
QLast Update : Mon Aug 01 14:55:32 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218787.D
Acq On : 31 Jul 2022 8:13 pm
Operator : PrashanS
Sample : IC9511-20
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 14:56:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:55:32 2022
QLast Update : Mon Aug 01 14:56:08 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 428714 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 726573 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 975008 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 931654 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 513520 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 726573 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 341852 | 49.88 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.76% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 453496 | 50.01 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.02% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1150863 | 50.41 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.82% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 474712 | 49.84 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.68% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 201148 | 1992.92 | ug/L | 91 |
| 3) tertiary butyl alcohol | 7.37 | 59 | 99925 | 94.67 | ug/L | 95 |
| 4) 1,4-dioxane | 11.08 | 88 | 36289 | 511.36 | ug/L | 91 |
| 6) chlorodifluoromethane | 4.00 | 51 | 189834 | 18.66 | ug/L | 98 |
| 7) dichlorodifluoromethane | 3.97 | 85 | 194905 | 19.76 | ug/L | 100 |
| 8) chloromethane | 4.35 | 50 | 236025 | 17.84 | ug/L | 97 |
| 9) vinyl chloride | 4.58 | 62 | 186333 | 18.86 | ug/L | 96 |
| 10) 1,3-butadiene | 4.62 | 54 | 165284 | 18.35 | ug/L | 96 |
| 11) bromomethane | 5.19 | 94 | 105060 | 18.03 | ug/L | 99 |
| 12) chloroethane | 5.36 | 64 | 88757 | 19.43 | ug/L | 94 |
| 13) trichlorofluoromethane | 5.80 | 101 | 216232 | 19.99 | ug/L | 95 |
| 14) ethyl ether | 6.19 | 74 | 66845 | 19.24 | ug/L | 94 |
| 15) acrolein | 6.41 | 56 | 28595 | 18.76 | ug/L | 91 |
| 16) freon 113 | 6.62 | 151 | 95865 | 18.11 | ug/L | 96 |
| 17) 1,1-dichloroethene | 6.61 | 96 | 102333 | 18.47 | ug/L | 94 |
| 18) acetone | 6.61 | 43 | 209498 | 72.88 | ug/L | 99 |
| 19) acetonitrile | 7.03 | 41 | 220882 | 189.26 | ug/L | 99 |
| 20) iodomethane | 6.85 | 142 | 201181 | 18.73 | ug/L | 98 |
| 21) carbon disulfide | 6.99 | 76 | 339656 | 18.45 | ug/L | 99 |
| 22) methylene chloride | 7.31 | 84 | 116736 | 17.63 | ug/L | 97 |
| 23) methyl acetate | 7.06 | 43 | 135908 | 19.43 | ug/L | 97 |
| 24) methyl tert butyl ether | 7.66 | 73 | 363194 | 18.35 | ug/L | 97 |
| 25) trans-1,2-dichloroethene | 7.69 | 96 | 113785 | 18.03 | ug/L | 94 |
| 26) hexane | 8.04 | 57 | 208222 | 18.69 | ug/L | 98 |
| 27) di-isopropyl ether | 8.25 | 45 | 519192 | 18.98 | ug/L | 98 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 446526 | 18.80 | ug/L | 99 |
| 29) 2-butanone | 8.90 | 72 | 58559 | 79.56 | ug/L # | 91 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 226944 | 18.59 | ug/L | 98 |
| 31) chloroprene | 8.36 | 53 | 223915 | 19.63 | ug/L | 99 |
| 32) acrylonitrile | 7.59 | 53 | 61227 | 20.36 | ug/L | 90 |
| 33) vinyl acetate | 8.20 | 86 | 21910 | 20.53 | ug/L # | 83 |
| 34) ethyl acetate | 8.93 | 45 | 26784 | 19.49 | ug/L | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218787.D
Acq On : 31 Jul 2022 8:13 pm
Operator : PrashanS
Sample : IC9511-20
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 14:56:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:55:32 2022
QLast Update : Mon Aug 01 14:56:08 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 9.00 | 77 | 173614 | 17.59 | ug/L | | 95 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 124837 | 18.13 | ug/L | | 94 |
| 37) propionitrile | 8.98 | 54 | 224569 | 194.11 | ug/L | | 94 |
| 38) bromochloromethane | 9.26 | 130 | 86308 | 19.10 | ug/L | | 95 |
| 39) tetrahydrofuran | 9.28 | 42 | 57263 | 16.98 | ug/L | | 99 |
| 40) chloroform | 9.35 | 83 | 225738 | 17.25 | ug/L | | 99 |
| 41) tert-butyl formate | 9.39 | 59 | 120638 | 20.68 | ug/L | | 96 |
| 42) isobutyl alcohol | 9.75 | 43 | 88672 | 182.61 | ug/L | | 93 |
| 44) methacrylonitrile | 9.18 | 67 | 55120 | 19.47 | ug/L | | 94 |
| 45) 1,1,1-trichloroethane | 9.60 | 97 | 208447 | 18.98 | ug/L | | 95 |
| 46) cyclohexane | 9.71 | 84 | 175098 | 19.36 | ug/L | # | 82 |
| 47) 1,1-dichloropropene | 9.78 | 75 | 163733 | 18.40 | ug/L | | 97 |
| 48) tert-amyl alcohol | 9.91 | 73 | 45293 | 92.29 | ug/L | | 89 |
| 49) carbon tetrachloride | 9.80 | 117 | 183972 | 18.54 | ug/L | | 98 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 541401 | 19.26 | ug/L | | 98 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 383899 | 18.54 | ug/L | | 99 |
| 54) n-butyl alcohol | 10.50 | 56 | 254149 | 1024.91 | ug/L | | 98 |
| 55) benzene | 10.02 | 78 | 455030 | 19.18 | ug/L | | 97 |
| 56) heptane | 10.28 | 57 | 110156 | 19.64 | ug/L | | 97 |
| 57) isopropyl acetate | 9.94 | 87 | 27594 | 19.10 | ug/L | # | 85 |
| 58) 1,2-dichloroethane | 10.04 | 62 | 203567 | 18.03 | ug/L | | 99 |
| 59) trichloroethene | 10.74 | 95 | 125212 | 18.58 | ug/L | | 96 |
| 60) ethyl acrylate | 10.74 | 55 | 211396 | 20.30 | ug/L | | 97 |
| 61) 2-nitropropane | 11.50 | 41 | 53188 | 19.68 | ug/L | | 98 |
| 62) 2-chloroethyl vinyl ether | 11.53 | 63 | 271919 | 135.24 | ug/L | | 96 |
| 63) methyl methacrylate | 11.01 | 100 | 32581 | 20.36 | ug/L | | 96 |
| 64) 1,2-dichloropropane | 11.04 | 63 | 130263 | 18.68 | ug/L | | 100 |
| 65) methylcyclohexane | 11.04 | 83 | 210406 | 19.17 | ug/L | | 98 |
| 66) dibromomethane | 11.14 | 93 | 85263 | 18.53 | ug/L | | 89 |
| 67) bromodichloromethane | 11.30 | 83 | 177724 | 18.76 | ug/L | | 97 |
| 68) epichlorohydrin | 11.62 | 57 | 81786 | 101.98 | ug/L | | 96 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 204747 | 19.99 | ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 252997 | 77.71 | ug/L | | 89 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 81730 | 430.82 | ug/L | | 96 |
| 74) toluene | 12.14 | 92 | 287560 | 18.98 | ug/L | | 96 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 194204 | 19.70 | ug/L | | 98 |
| 76) ethyl methacrylate | 12.32 | 69 | 176399 | 21.31 | ug/L | | 97 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 100998 | 19.67 | ug/L | | 96 |
| 78) 2-hexanone | 12.71 | 58 | 248821 | 80.12 | ug/L | | 96 |
| 79) tetrachloroethene | 12.68 | 166 | 137905 | 18.19 | ug/L | | 96 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 182704 | 18.20 | ug/L | | 98 |
| 81) butyl acetate | 12.79 | 56 | 108533 | 20.65 | ug/L | | 92 |
| 82) dibromochloromethane | 12.96 | 129 | 147361 | 19.89 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 123583 | 19.53 | ug/L | | 98 |
| 84) n-butyl ether | 13.56 | 57 | 592133 | 19.30 | ug/L | | 99 |
| 85) chlorobenzene | 13.59 | 112 | 325014 | 19.64 | ug/L | | 97 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 126686 | 19.41 | ug/L | | 93 |
| 87) ethylbenzene | 13.66 | 91 | 549381 | 18.76 | ug/L | | 96 |
| 88) m,p-xylene | 13.78 | 106 | 425017 | 38.50 | ug/L | | 92 |
| 89) o-xylene | 14.17 | 91 | 445865 | 18.87 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218787.D
Acq On : 31 Jul 2022 8:13 pm
Operator : PrashanS
Sample : IC9511-20
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 14:56:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:55:32 2022
QLast Update : Mon Aug 01 14:56:08 2022
Response via : Initial Calibration

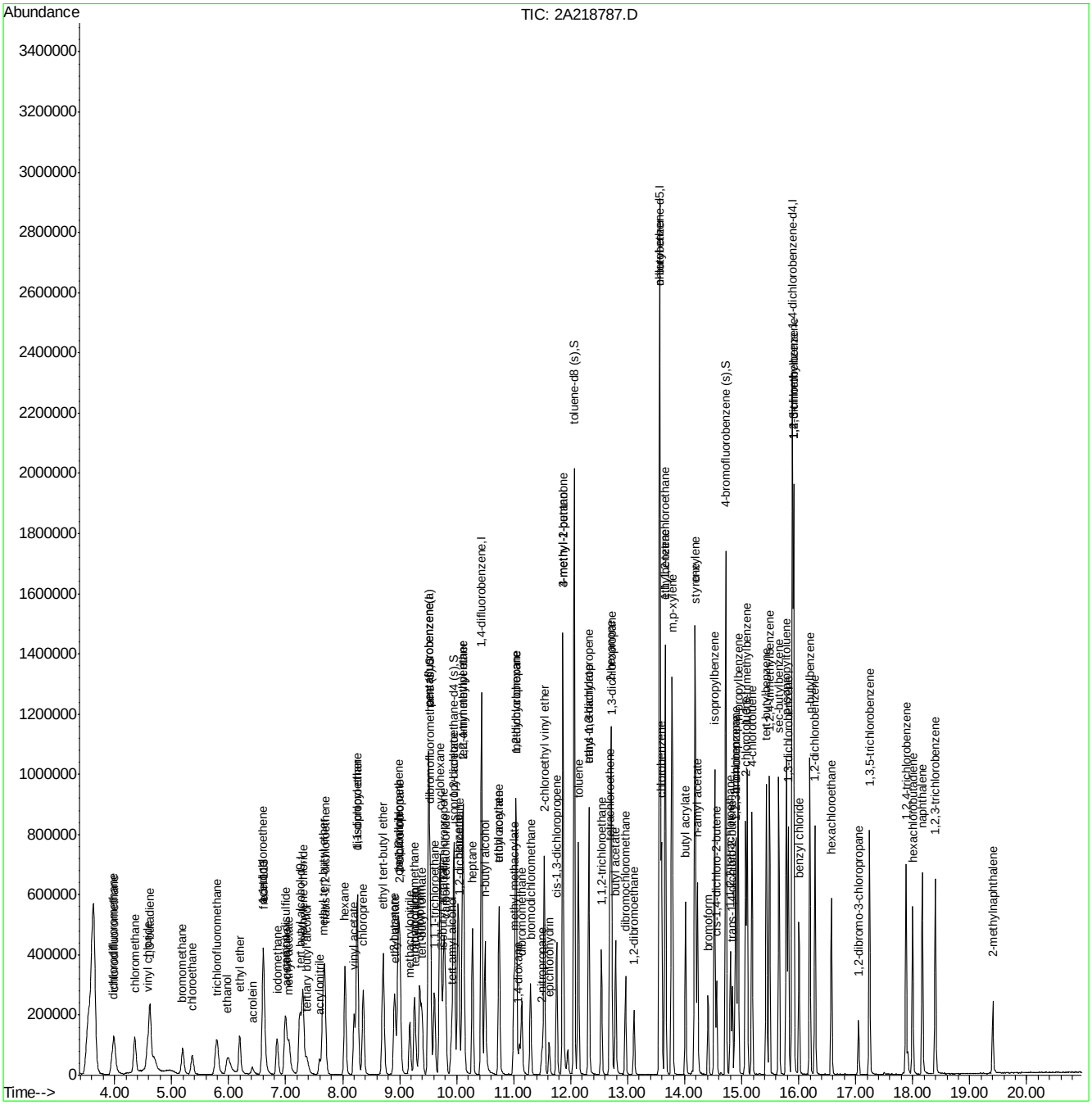
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 90) styrene | 14.19 | 104 | 358328 | 20.13 | ug/L | 94 |
| 91) n-amyl acetate | 14.22 | 70 | 93122 | 20.84 | ug/L | 90 |
| 92) bromoform | 14.41 | 173 | 106368 | 20.33 | ug/L | 97 |
| 93) butyl acrylate | 14.01 | 55 | 332424 | 21.40 | ug/L | 100 |
| 94) isopropylbenzene | 14.53 | 105 | 551439 | 19.58 | ug/L | 98 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 60771 | 22.18 | ug/L | 99 |
| 98) bromobenzene | 14.90 | 156 | 154205 | 18.21 | ug/L | 97 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 172140 | 19.37 | ug/L | 99 |
| 100) trans-1,4-dichloro-2-buten | 14.83 | 53 | 58442 | 20.90 | ug/L | 98 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 43860 | 19.45 | ug/L | 95 |
| 102) n-propylbenzene | 14.94 | 91 | 664796 | 19.06 | ug/L | 96 |
| 103) 2-chlorotoluene | 15.07 | 126 | 137734 | 18.89 | ug/L | 90 |
| 104) 4-chlorotoluene | 15.18 | 91 | 415037 | 19.01 | ug/L | 96 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 453630 | 19.04 | ug/L | 100 |
| 106) tert-butylbenzene | 15.43 | 119 | 385273 | 18.75 | ug/L | 99 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 466785 | 19.21 | ug/L | 96 |
| 108) sec-butylbenzene | 15.65 | 105 | 593422 | 19.16 | ug/L | 98 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 286521 | 18.96 | ug/L | 96 |
| 110) p-isopropyltoluene | 15.79 | 119 | 503064 | 19.11 | ug/L | 95 |
| 111) benzyl chloride | 16.01 | 91 | 292416 | 20.47 | ug/L | 97 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 472645 | 18.72 | ug/L | 96 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 287440 | 18.15 | ug/L | 97 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 283693 | 19.27 | ug/L | 100 |
| 115) n-butylbenzene | 16.19 | 92 | 270266 | 19.88 | ug/L | 94 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 38568 | 21.06 | ug/L | 96 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 218557 | 19.11 | ug/L | 99 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 197555 | 20.59 | ug/L | 99 |
| 119) hexachlorobutadiene | 18.00 | 225 | 99114 | 20.03 | ug/L | 91 |
| 120) naphthalene | 18.17 | 128 | 482323 | 20.89 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 184915 | 20.52 | ug/L | 96 |
| 122) hexachloroethane | 16.58 | 201 | 85243 | 21.47 | ug/L | 92 |
| 123) 2-methylnaphthalene | 19.41 | 142 | 115453 | 10.76 | ug/L | 96 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218787.D
Acq On : 31 Jul 2022 8:13 pm
Operator : PrashanS
Sample : IC9511-20
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 14:56:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:55:32 2022
QLast Update : Mon Aug 01 14:56:08 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218788.D
Acq On : 31 Jul 2022 8:41 pm
Operator : PrashanS
Sample : ICC9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 14:30:56 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:25:46 2022
QLast Update : Mon Aug 01 14:30:00 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 430035 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 739573 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 990901 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 951995 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 521245 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 739208 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 351605 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 461345 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.00% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1170934 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 478753 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 521004 | 5000.00 | ug/L | 100 |
| 3) tertiary butyl alcohol | 7.36 | 59 | 261604 | 250.00 | ug/L | 100 |
| 4) 1,4-dioxane | 11.08 | 88 | 98789 | 1250.00 | ug/L | 100 |
| 6) chlorodifluoromethane | 4.00 | 51 | 491666 | 50.00 | ug/L | 100 |
| 7) dichlorodifluoromethane | 3.97 | 85 | 502619 | 50.01 | ug/L | 100 |
| 8) chloromethane | 4.35 | 50 | 606131 | 50.00 | ug/L | 100 |
| 9) vinyl chloride | 4.57 | 62 | 486994 | 50.00 | ug/L | 100 |
| 10) 1,3-butadiene | 4.62 | 54 | 406614 | 50.00 | ug/L | 100 |
| 11) bromomethane | 5.19 | 94 | 278236 | 50.00 | ug/L | 100 |
| 12) chloroethane | 5.36 | 64 | 233276 | 50.00 | ug/L | 100 |
| 13) trichlorofluoromethane | 5.79 | 101 | 561174 | 50.00 | ug/L | 100 |
| 14) ethyl ether | 6.19 | 74 | 170540 | 50.00 | ug/L | 100 |
| 15) acrolein | 6.41 | 56 | 81364 | 50.00 | ug/L | 100 |
| 16) freon 113 | 6.61 | 151 | 250484 | 50.00 | ug/L | 100 |
| 17) 1,1-dichloroethene | 6.60 | 96 | 264084 | 50.00 | ug/L | 100 |
| 18) acetone | 6.61 | 43 | 535473 | 200.00 | ug/L | 100 |
| 19) acetonitrile | 7.01 | 41 | 569811 | 500.00 | ug/L | 100 |
| 20) iodomethane | 6.85 | 142 | 518681 | 50.00 | ug/L | 100 |
| 21) carbon disulfide | 6.98 | 76 | 882965 | 49.93 | ug/L | 100 |
| 22) methylene chloride | 7.30 | 84 | 304836 | 50.00 | ug/L | 100 |
| 23) methyl acetate | 7.06 | 43 | 352148 | 50.00 | ug/L | 100 |
| 24) methyl tert butyl ether | 7.66 | 73 | 929573 | 50.00 | ug/L | 100 |
| 25) trans-1,2-dichloroethene | 7.68 | 96 | 294733 | 50.00 | ug/L | 100 |
| 26) hexane | 8.04 | 57 | 523892 | 50.00 | ug/L | 100 |
| 27) di-isopropyl ether | 8.25 | 45 | 1323811 | 50.00 | ug/L | 100 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 1155862 | 50.00 | ug/L | 100 |
| 29) 2-butanone | 8.90 | 72 | 156008 | 200.00 | ug/L | 100 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 585886 | 50.00 | ug/L | 100 |
| 31) chloroprene | 8.36 | 53 | 580070 | 50.00 | ug/L | 100 |
| 32) acrylonitrile | 7.59 | 53 | 160857 | 50.00 | ug/L | 100 |
| 33) vinyl acetate | 8.20 | 86 | 59412 | 50.00 | ug/L | 100 |
| 34) ethyl acetate | 8.92 | 45 | 72024 | 50.00 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218788.D
Acq On : 31 Jul 2022 8:41 pm
Operator : PrashanS
Sample : ICC9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 14:30:56 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:25:46 2022
QLast Update : Mon Aug 01 14:30:00 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 9.00 | 77 | 461257 | 50.00 | ug/L | 100 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 328619 | 50.00 | ug/L | 100 |
| 37) propionitrile | 8.98 | 54 | 582952 | 500.00 | ug/L | 100 |
| 38) bromochloromethane | 9.26 | 130 | 227376 | 50.00 | ug/L | 100 |
| 39) tetrahydrofuran | 9.28 | 42 | 143509 | 50.00 | ug/L | 100 |
| 40) chloroform | 9.35 | 83 | 584987 | 50.00 | ug/L | 100 |
| 41) tert-butyl formate | 9.38 | 59 | 324676 | 50.00 | ug/L | 100 |
| 42) isobutyl alcohol | 9.75 | 43 | 255412 | 500.00 | ug/L | 100 |
| 44) methacrylonitrile | 9.17 | 67 | 144788 | 50.00 | ug/L | 100 |
| 45) 1,1,1-trichloroethane | 9.61 | 97 | 538312 | 50.00 | ug/L | 100 |
| 46) cyclohexane | 9.72 | 84 | 458447 | 50.00 | ug/L | 100 |
| 47) 1,1-dichloropropene | 9.78 | 75 | 422042 | 50.00 | ug/L | 100 |
| 48) tert-amyl alcohol | 9.91 | 73 | 111514 | 250.00 | ug/L | 100 |
| 49) carbon tetrachloride | 9.80 | 117 | 486009 | 50.00 | ug/L | 100 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 1341381 | 50.00 | ug/L | 100 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 985231 | 50.00 | ug/L | 100 |
| 54) n-butyl alcohol | 10.50 | 56 | 663849 | 2500.00 | ug/L | 100 |
| 55) benzene | 10.02 | 78 | 1158667 | 50.00 | ug/L | 100 |
| 56) heptane | 10.28 | 57 | 285626 | 50.00 | ug/L | 100 |
| 57) isopropyl acetate | 9.94 | 87 | 70864 | 50.00 | ug/L | 100 |
| 58) 1,2-dichloroethane | 10.04 | 62 | 520373 | 50.00 | ug/L | 100 |
| 59) trichloroethene | 10.74 | 95 | 329122 | 50.00 | ug/L | 100 |
| 60) ethyl acrylate | 10.74 | 55 | 549980 | 50.00 | ug/L | 100 |
| 61) 2-nitropropane | 11.50 | 41 | 144509 | 50.00 | ug/L | 100 |
| 62) 2-chloroethyl vinyl ether | 11.53 | 63 | 788930 | 250.00 | ug/L | 100 |
| 63) methyl methacrylate | 11.01 | 100 | 87895 | 50.00 | ug/L | 100 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 341196 | 50.00 | ug/L | 100 |
| 65) methylcyclohexane | 11.04 | 83 | 535262 | 50.00 | ug/L | 100 |
| 66) dibromomethane | 11.14 | 93 | 216000 | 50.00 | ug/L | 100 |
| 67) bromodichloromethane | 11.30 | 83 | 466331 | 50.00 | ug/L | 100 |
| 68) epichlorohydrin | 11.62 | 57 | 216041 | 250.00 | ug/L | 100 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 528123 | 50.00 | ug/L | 100 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 660579 | 200.00 | ug/L | 100 |
| 71) 3-methyl-1-butanol | 11.86 | 70 | 214542 | 1000.00 | ug/L | 100 |
| 74) toluene | 12.14 | 92 | 735285 | 50.00 | ug/L | 100 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 511262 | 50.00 | ug/L | 100 |
| 76) ethyl methacrylate | 12.31 | 69 | 450593 | 50.00 | ug/L | 100 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 258998 | 50.00 | ug/L | 100 |
| 78) 2-hexanone | 12.71 | 58 | 640849 | 200.00 | ug/L | 100 |
| 79) tetrachloroethene | 12.68 | 166 | 358070 | 50.00 | ug/L | 100 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 478006 | 50.00 | ug/L | 100 |
| 81) butyl acetate | 12.79 | 56 | 276449 | 50.00 | ug/L | 100 |
| 82) dibromochloromethane | 12.96 | 129 | 385243 | 50.00 | ug/L | 100 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 324612 | 50.00 | ug/L | 100 |
| 84) n-butyl ether | 13.56 | 57 | 1493266 | 50.00 | ug/L | 100 |
| 85) chlorobenzene | 13.59 | 112 | 817274 | 50.00 | ug/L | 100 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 328374 | 50.00 | ug/L | 100 |
| 87) ethylbenzene | 13.66 | 91 | 1374498 | 50.00 | ug/L | 100 |
| 88) m,p-xylene | 13.78 | 106 | 1084298 | 100.00 | ug/L | 100 |
| 89) o-xylene | 14.18 | 91 | 1131192 | 50.00 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218788.D
Acq On : 31 Jul 2022 8:41 pm
Operator : PrashanS
Sample : ICC9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 14:30:56 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:25:46 2022
QLast Update : Mon Aug 01 14:30:00 2022
Response via : Initial Calibration

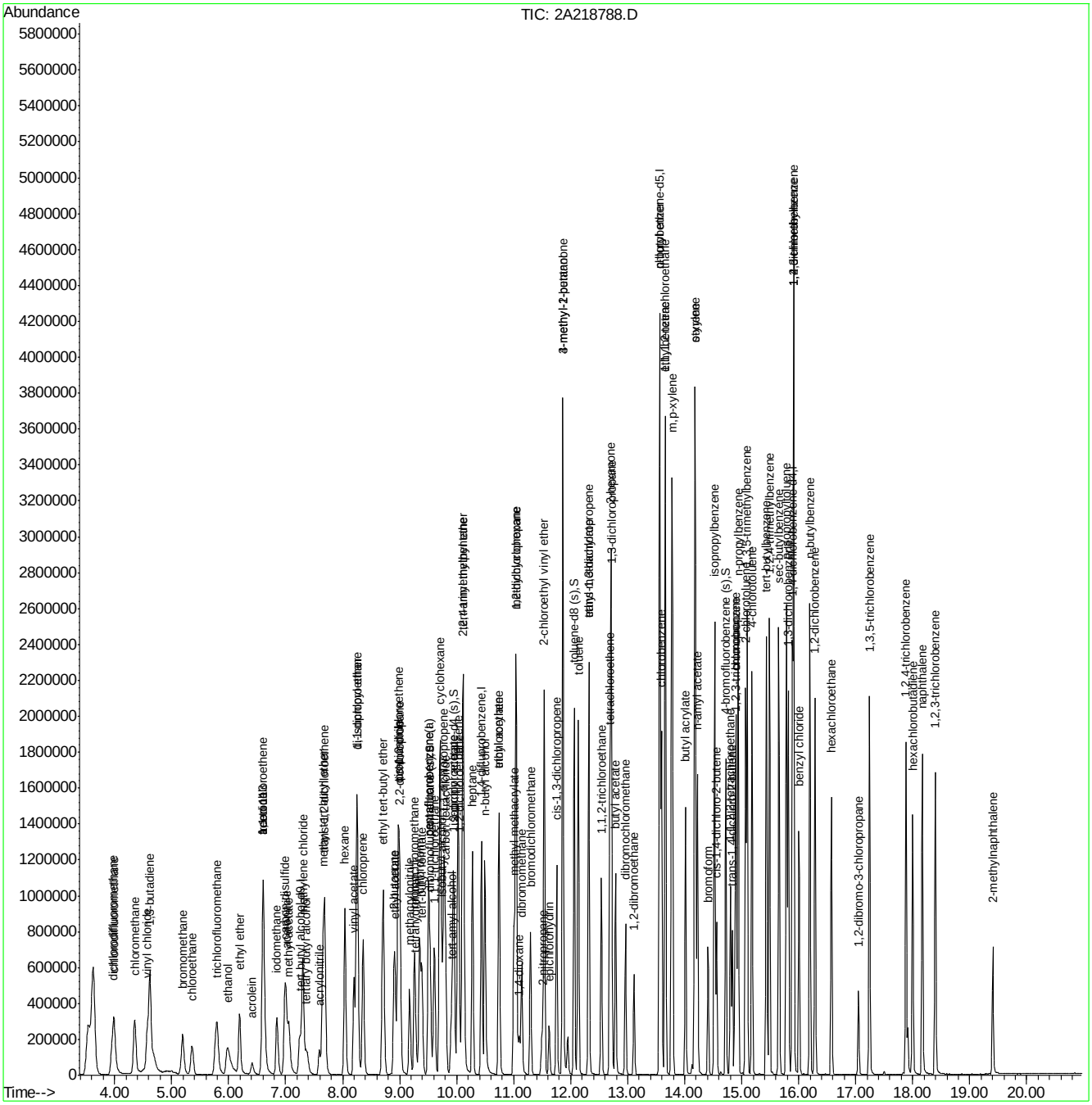
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 90) styrene | 14.19 | 104 | 918466 | 50.00 | ug/L | 100 |
| 91) n-amyl acetate | 14.22 | 70 | 245352 | 50.00 | ug/L | 100 |
| 92) bromoform | 14.41 | 173 | 292506 | 50.00 | ug/L | 100 |
| 93) butyl acrylate | 14.01 | 55 | 852524 | 50.00 | ug/L | 100 |
| 94) isopropylbenzene | 14.53 | 105 | 1382305 | 50.00 | ug/L | 100 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 166175 | 50.00 | ug/L | 100 |
| 98) bromobenzene | 14.90 | 156 | 395208 | 50.00 | ug/L | 100 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 435980 | 50.00 | ug/L | 100 |
| 100) trans-1,4-dichloro-2-buten | 14.83 | 53 | 153920 | 50.00 | ug/L | 100 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 111981 | 50.00 | ug/L | 100 |
| 102) n-propylbenzene | 14.94 | 91 | 1637606 | 50.00 | ug/L | 100 |
| 103) 2-chlorotoluene | 15.07 | 126 | 357774 | 50.00 | ug/L | 100 |
| 104) 4-chlorotoluene | 15.18 | 91 | 1028368 | 50.00 | ug/L | 100 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 1151685 | 50.00 | ug/L | 100 |
| 106) tert-butylbenzene | 15.43 | 119 | 994736 | 50.00 | ug/L | 100 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 1172131 | 50.00 | ug/L | 100 |
| 108) sec-butylbenzene | 15.66 | 105 | 1493082 | 50.00 | ug/L | 100 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 722902 | 50.00 | ug/L | 100 |
| 110) p-isopropyltoluene | 15.79 | 119 | 1266530 | 50.00 | ug/L | 100 |
| 111) benzyl chloride | 16.01 | 91 | 779733 | 49.94 | ug/L | 100 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 1191537 | 50.00 | ug/L | 100 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 739764 | 50.00 | ug/L | 100 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 721435 | 50.00 | ug/L | 100 |
| 115) n-butylbenzene | 16.19 | 92 | 692266 | 50.00 | ug/L | 100 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 103021 | 50.00 | ug/L | 100 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 570163 | 50.00 | ug/L | 100 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 511452 | 50.00 | ug/L | 100 |
| 119) hexachlorobutadiene | 18.00 | 225 | 253561 | 50.00 | ug/L | 100 |
| 120) naphthalene | 18.17 | 128 | 1244748 | 50.00 | ug/L | 100 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 481606 | 50.00 | ug/L | 100 |
| 122) hexachloroethane | 16.58 | 201 | 231840 | 50.00 | ug/L | 100 |
| 123) 2-methylnaphthalene | 19.41 | 142 | 330650 | 25.00 | ug/L | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218788.D
Acq On : 31 Jul 2022 8:41 pm
Operator : PrashanS
Sample : ICC9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 14:30:56 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:25:46 2022
QLast Update : Mon Aug 01 14:30:00 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218789.D
Acq On : 31 Jul 2022 9:09 pm
Operator : PrashanS
Sample : IC9511-100
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 14:57:44 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:56:08 2022
QLast Update : Mon Aug 01 14:56:58 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 459793 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 767103 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 1020951 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 978755 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 538107 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 766203 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 356658 | 49.31 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.62% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 474546 | 49.97 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.94% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1203527 | 50.13 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.26% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 490794 | 49.20 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.40% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 1234817 | 11414.00 | ug/L | 99 |
| 3) tertiary butyl alcohol | 7.37 | 59 | 585243 | 521.63 | ug/L | 100 |
| 4) 1,4-dioxane | 11.08 | 88 | 221072 | 2893.68 | ug/L | 98 |
| 6) chlorodifluoromethane | 3.98 | 51 | 1019998 | 95.89 | ug/L | 99 |
| 7) dichlorodifluoromethane | 3.95 | 85 | 1019002 | 98.02 | ug/L | 99 |
| 8) chloromethane | 4.34 | 50 | 1240966 | 90.23 | ug/L | 99 |
| 9) vinyl chloride | 4.57 | 62 | 999292 | 96.60 | ug/L | 99 |
| 10) 1,3-butadiene | 4.61 | 54 | 831794 | 88.52 | ug/L | 98 |
| 11) bromomethane | 5.18 | 94 | 593790 | 97.88 | ug/L | 97 |
| 12) chloroethane | 5.35 | 64 | 497196 | 103.53 | ug/L | 93 |
| 13) trichlorofluoromethane | 5.79 | 101 | 1164280 | 101.93 | ug/L | 95 |
| 14) ethyl ether | 6.19 | 74 | 366512 | 100.48 | ug/L | 99 |
| 15) acrolein | 6.41 | 56 | 175348 | 110.08 | ug/L | 99 |
| 16) freon 113 | 6.61 | 151 | 520898 | 94.48 | ug/L | 94 |
| 17) 1,1-dichloroethene | 6.60 | 96 | 550153 | 95.09 | ug/L | 99 |
| 18) acetone | 6.60 | 43 | 1150827 | 384.10 | ug/L | 98 |
| 19) acetonitrile | 7.01 | 41 | 1229737 | 1005.75 | ug/L | 98 |
| 20) iodomethane | 6.84 | 142 | 1084842 | 96.43 | ug/L | 99 |
| 21) carbon disulfide | 6.98 | 76 | 1831506 | 95.27 | ug/L | 99 |
| 22) methylene chloride | 7.30 | 84 | 647697 | 94.22 | ug/L | 98 |
| 23) methyl acetate | 7.06 | 43 | 756374 | 102.82 | ug/L | 99 |
| 24) methyl tert butyl ether | 7.65 | 73 | 1956452 | 94.58 | ug/L | 96 |
| 25) trans-1,2-dichloroethene | 7.68 | 96 | 618814 | 94.18 | ug/L | 96 |
| 26) hexane | 8.04 | 57 | 1091713 | 93.58 | ug/L | 98 |
| 27) di-isopropyl ether | 8.25 | 45 | 2724270 | 94.93 | ug/L | 97 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 2389269 | 96.01 | ug/L | 98 |
| 29) 2-butanone | 8.90 | 72 | 347321 | 447.36 | ug/L # | 88 |
| 30) 1,1-dichloroethane | 8.25 | 63 | 1237823 | 96.90 | ug/L | 99 |
| 31) chloroprene | 8.36 | 53 | 1223805 | 101.86 | ug/L | 98 |
| 32) acrylonitrile | 7.58 | 53 | 351188 | 110.28 | ug/L | 99 |
| 33) vinyl acetate | 8.20 | 86 | 138861 | 122.72 | ug/L # | 66 |
| 34) ethyl acetate | 8.92 | 45 | 157803 | 109.21 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218789.D
Acq On : 31 Jul 2022 9:09 pm
Operator : PrashanS
Sample : IC9511-100
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 14:57:44 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:56:08 2022
QLast Update : Mon Aug 01 14:56:58 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 9.00 | 77 | 965070 | 94.04 | ug/L | | 99 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 691701 | 96.29 | ug/L | | 97 |
| 37) propionitrile | 8.98 | 54 | 1257873 | 1034.17 | ug/L | | 92 |
| 38) bromochloromethane | 9.26 | 130 | 475481 | 100.32 | ug/L | | 97 |
| 39) tetrahydrofuran | 9.28 | 42 | 312882 | 90.13 | ug/L | | 98 |
| 40) chloroform | 9.35 | 83 | 1209474 | 89.31 | ug/L | | 98 |
| 41) tert-butyl formate | 9.38 | 59 | 730261 | 118.05 | ug/L | | 97 |
| 42) isobutyl alcohol | 9.74 | 43 | 541170 | 1071.11 | ug/L | | 99 |
| 44) methacrylonitrile | 9.17 | 67 | 319550 | 107.39 | ug/L | | 97 |
| 45) 1,1,1-trichloroethane | 9.60 | 97 | 1125850 | 97.73 | ug/L | | 99 |
| 46) cyclohexane | 9.71 | 84 | 970919 | 102.08 | ug/L | | 92 |
| 47) 1,1-dichloropropene | 9.78 | 75 | 894376 | 96.15 | ug/L | | 99 |
| 48) tert-amyl alcohol | 9.91 | 73 | 252155 | 492.98 | ug/L | | 97 |
| 49) carbon tetrachloride | 9.80 | 117 | 1024277 | 98.68 | ug/L | | 99 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 2787152 | 95.13 | ug/L | | 98 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 2038731 | 94.89 | ug/L | | 98 |
| 54) n-butyl alcohol | 10.49 | 56 | 1460985 | 5606.64 | ug/L | | 98 |
| 55) benzene | 10.02 | 78 | 2373166 | 96.01 | ug/L | | 98 |
| 56) heptane | 10.28 | 57 | 596268 | 101.74 | ug/L | | 98 |
| 57) isopropyl acetate | 9.94 | 87 | 161548 | 107.62 | ug/L | # | 85 |
| 58) 1,2-dichloroethane | 10.04 | 62 | 1092441 | 93.72 | ug/L | | 97 |
| 59) trichloroethene | 10.74 | 95 | 688135 | 98.41 | ug/L | | 99 |
| 60) ethyl acrylate | 10.73 | 55 | 1180211 | 108.02 | ug/L | | 98 |
| 61) 2-nitropropane | 11.50 | 41 | 320922 | 113.68 | ug/L | | 98 |
| 62) 2-chloroethyl vinyl ether | 11.54 | 63 | 1888529 | 853.99 | ug/L | | 95 |
| 63) methyl methacrylate | 11.00 | 100 | 195712 | 116.47 | ug/L | | 96 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 724213 | 100.11 | ug/L | | 100 |
| 65) methylcyclohexane | 11.04 | 83 | 1129075 | 98.74 | ug/L | | 97 |
| 66) dibromomethane | 11.14 | 93 | 465233 | 97.46 | ug/L | | 96 |
| 67) bromodichloromethane | 11.30 | 83 | 989742 | 100.53 | ug/L | | 100 |
| 68) epichlorohydrin | 11.62 | 57 | 469215 | 556.93 | ug/L | | 96 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 1112379 | 103.74 | ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 1416482 | 417.01 | ug/L | # | 79 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 488983 | 2434.74 | ug/L | | 88 |
| 74) toluene | 12.14 | 92 | 1529303 | 96.69 | ug/L | | 92 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 1070601 | 103.58 | ug/L | | 98 |
| 76) ethyl methacrylate | 12.31 | 69 | 955498 | 108.86 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 541907 | 100.66 | ug/L | | 96 |
| 78) 2-hexanone | 12.71 | 58 | 1370894 | 420.10 | ug/L | # | 87 |
| 79) tetrachloroethene | 12.68 | 166 | 748859 | 95.11 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 1001429 | 96.03 | ug/L | | 98 |
| 81) butyl acetate | 12.79 | 56 | 598332 | 107.87 | ug/L | | 95 |
| 82) dibromochloromethane | 12.96 | 129 | 823008 | 105.79 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 687815 | 103.76 | ug/L | | 94 |
| 84) n-butyl ether | 13.56 | 57 | 2887535 | 89.96 | ug/L | | 95 |
| 85) chlorobenzene | 13.59 | 112 | 1651463 | 95.19 | ug/L | | 96 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 700680 | 102.58 | ug/L | | 97 |
| 87) ethylbenzene | 13.66 | 91 | 2646448 | 86.69 | ug/L | | 94 |
| 88) m,p-xylene | 13.78 | 106 | 2234566 | 193.57 | ug/L | | 89 |
| 89) o-xylene | 14.18 | 91 | 2246730 | 91.15 | ug/L | | 94 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218789.D
Acq On : 31 Jul 2022 9:09 pm
Operator : PrashanS
Sample : IC9511-100
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 14:57:44 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:56:08 2022
QLast Update : Mon Aug 01 14:56:58 2022
Response via : Initial Calibration

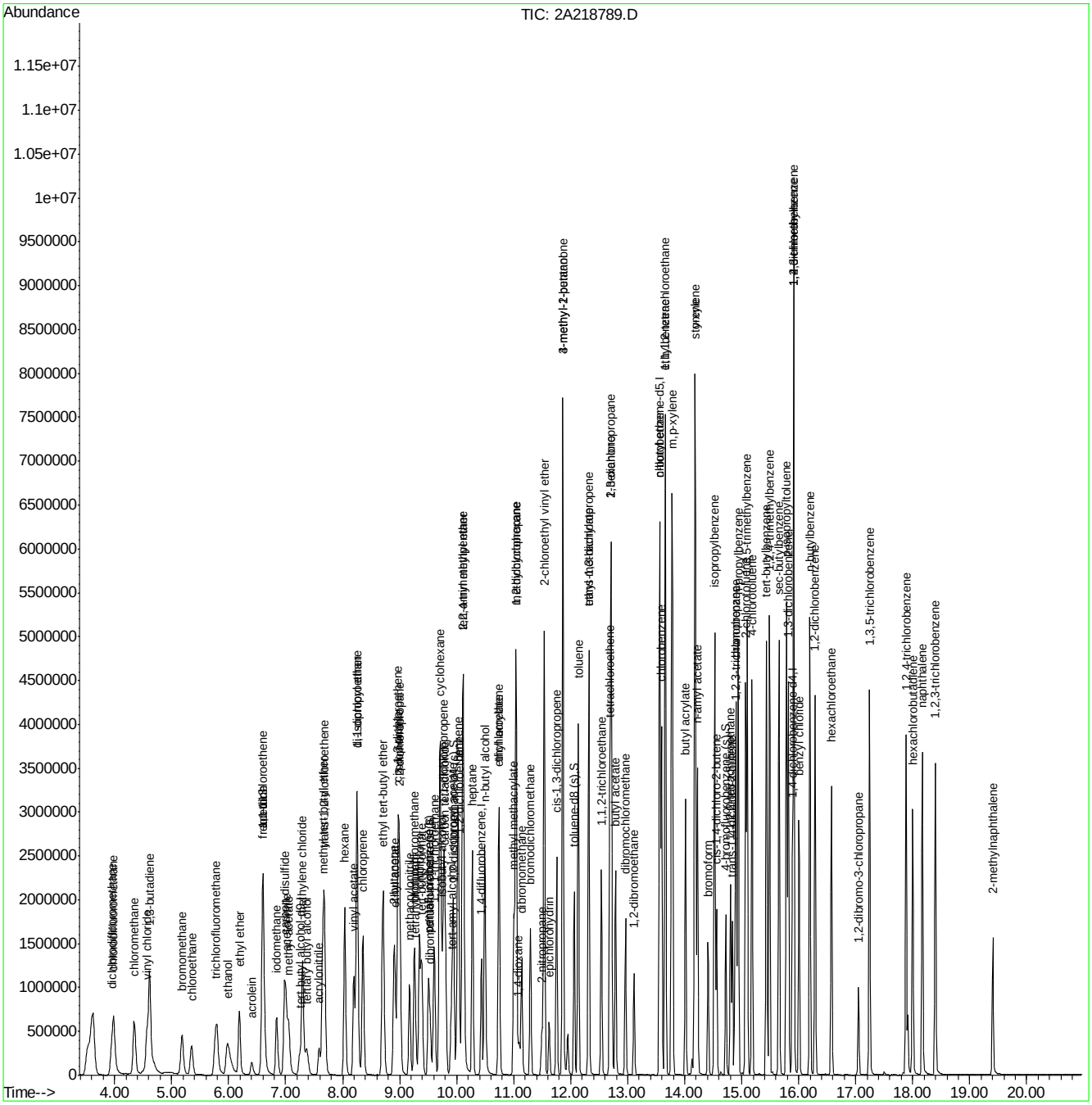
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 90) styrene | 14.19 | 104 | 1881419 | 100.55 | ug/L | 98 |
| 91) n-amyl acetate | 14.22 | 70 | 530039 | 112.25 | ug/L | 93 |
| 92) bromoform | 14.41 | 173 | 627627 | 113.97 | ug/L | 98 |
| 93) butyl acrylate | 14.01 | 55 | 1758147 | 106.68 | ug/L | 95 |
| 94) isopropylbenzene | 14.53 | 105 | 2659670 | 90.14 | ug/L | 93 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 364115 | 124.56 | ug/L | 98 |
| 98) bromobenzene | 14.90 | 156 | 830178 | 94.61 | ug/L | 98 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 907222 | 97.83 | ug/L | 97 |
| 100) trans-1,4-dichloro-2-buten | 14.83 | 53 | 341911 | 115.82 | ug/L | 99 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 242837 | 103.16 | ug/L | 97 |
| 102) n-propylbenzene | 14.94 | 91 | 3092740 | 85.12 | ug/L | 92 |
| 103) 2-chlorotoluene | 15.07 | 126 | 750624 | 98.93 | ug/L | 91 |
| 104) 4-chlorotoluene | 15.18 | 91 | 2043632 | 89.87 | ug/L | 97 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 2273581 | 91.60 | ug/L | 94 |
| 106) tert-butylbenzene | 15.44 | 119 | 1982306 | 92.78 | ug/L | 98 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 2293767 | 90.53 | ug/L | 94 |
| 108) sec-butylbenzene | 15.66 | 105 | 2881813 | 89.25 | ug/L | 93 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 1472886 | 93.64 | ug/L | 97 |
| 110) p-isopropyltoluene | 15.79 | 119 | 2476449 | 90.29 | ug/L | 94 |
| 111) benzyl chloride | 16.01 | 91 | 1622166 | 107.99 | ug/L | 97 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 2328806 | 88.74 | ug/L | 94 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 1520831 | 92.73 | ug/L | 98 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 1459443 | 95.06 | ug/L | 96 |
| 115) n-butylbenzene | 16.19 | 92 | 1421483 | 99.84 | ug/L | 92 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 223516 | 115.61 | ug/L | 92 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 1164572 | 97.72 | ug/L | 98 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 1063844 | 105.43 | ug/L | 96 |
| 119) hexachlorobutadiene | 18.00 | 225 | 541433 | 104.40 | ug/L | 99 |
| 120) naphthalene | 18.17 | 128 | 2511427 | 103.21 | ug/L | 96 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 1007289 | 106.31 | ug/L | 99 |
| 122) hexachloroethane | 16.58 | 201 | 498427 | 118.73 | ug/L | 99 |
| 123) 2-methylnaphthalene | 19.41 | 142 | 746190 | 65.36 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218789.D
Acq On : 31 Jul 2022 9:09 pm
Operator : PrashanS
Sample : IC9511-100
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 14:57:44 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:56:08 2022
QLast Update : Mon Aug 01 14:56:58 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/01/22 19:36

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218790.D
Acq On : 31 Jul 2022 9:38 pm
Operator : PrashanS
Sample : IC9511-200
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 14:59:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:56:58 2022
QLast Update : Mon Aug 01 14:57:51 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.26 | 65 | 466711 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 787560 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 1056636 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 1016487 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 549265 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 786735 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 370135 | 49.92 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.84% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 489230 | 49.78 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.56% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1227827 | 49.23 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.46% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 506250 | 49.80 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.60% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 2507597 | 22383.19 | ug/L | 99 |
| 3) tertiary butyl alcohol | 7.37 | 59 | 1151431 | 1004.85 | ug/L | 95 |
| 4) 1,4-dioxane | 11.08 | 88 | 439086 | 5537.57 | ug/L | 99 |
| 6) chlorodifluoromethane | 3.99 | 51 | 1945766 | 179.09 | ug/L | 97 |
| 7) dichlorodifluoromethane | 3.96 | 85 | 2007470 | 188.56 | ug/L | 99 |
| 8) chloromethane | 4.34 | 50 | 2319881 | 166.32 | ug/L | 96 |
| 9) vinyl chloride | 4.57 | 62 | 1922923 | 181.82 | ug/L | 99 |
| 10) 1,3-butadiene | 4.61 | 54 | 1572491 | 165.38 | ug/L | 99 |
| 11) bromomethane | 5.17 | 94 | 1175847 | 189.29 | ug/L | 100 |
| 12) chloroethane | 5.35 | 64 | 998027 | 201.52 | ug/L | 94 |
| 13) trichlorofluoromethane | 5.79 | 101 | 2305229 | 196.16 | ug/L | 98 |
| 14) ethyl ether | 6.19 | 74 | 732066 | 195.37 | ug/L | 94 |
| 15) acrolein | 6.41 | 56 | 353644 | 213.18 | ug/L | 98 |
| 16) freon 113 | 6.61 | 151 | 1039665 | 184.95 | ug/L | 93 |
| 17) 1,1-dichloroethene | 6.60 | 96 | 1072566 | 181.69 | ug/L | 94 |
| 18) acetone | 6.61 | 43 | 2212776 | 722.94 | ug/L | 96 |
| 19) acetonitrile | 7.01 | 41 | 2392817 | 1904.78 | ug/L | 100 |
| 20) iodomethane | 6.84 | 142 | 2101270 | 182.65 | ug/L | 99 |
| 21) carbon disulfide | 6.98 | 76 | 3453484 | 176.02 | ug/L | 99 |
| 22) methylene chloride | 7.30 | 84 | 1253295 | 178.88 | ug/L | 97 |
| 23) methyl acetate | 7.06 | 43 | 1459173 | 192.53 | ug/L | 99 |
| 24) methyl tert butyl ether | 7.66 | 73 | 3674108 | 174.05 | ug/L | 93 |
| 25) trans-1,2-dichloroethene | 7.68 | 96 | 1205853 | 180.07 | ug/L | 96 |
| 26) hexane | 8.03 | 57 | 2131802 | 179.26 | ug/L | 98 |
| 27) di-isopropyl ether | 8.25 | 45 | 4954270 | 169.11 | ug/L | 93 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 4422135 | 173.85 | ug/L | 93 |
| 29) 2-butanone | 8.90 | 72 | 676627 | 834.75 | ug/L # | 79 |
| 30) 1,1-dichloroethane | 8.25 | 63 | 2370352 | 181.36 | ug/L | 98 |
| 31) chloroprene | 8.36 | 53 | 2345339 | 189.74 | ug/L | 96 |
| 32) acrylonitrile | 7.59 | 53 | 700650 | 211.20 | ug/L | 98 |
| 33) vinyl acetate | 8.20 | 86 | 275079 | 229.35 | ug/L # | 48 |
| 34) ethyl acetate | 8.92 | 45 | 316543 | 210.61 | ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218790.D
Acq On : 31 Jul 2022 9:38 pm
Operator : PrashanS
Sample : IC9511-200
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 14:59:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:56:58 2022
QLast Update : Mon Aug 01 14:57:51 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 9.00 | 77 | 1856703 | 177.40 | ug/L | | 97 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 1346873 | 183.39 | ug/L | | 96 |
| 37) propionitrile | 8.98 | 54 | 2362630 | 1883.95 | ug/L | | 90 |
| 38) bromochloromethane | 9.26 | 130 | 927216 | 190.47 | ug/L | | 97 |
| 39) tetrahydrofuran | 9.28 | 42 | 608625 | 173.21 | ug/L | | 99 |
| 40) chloroform | 9.35 | 83 | 2266992 | 165.26 | ug/L | | 95 |
| 41) tert-butyl formate | 9.38 | 59 | 1422033 | 219.50 | ug/L | | 97 |
| 42) isobutyl alcohol | 9.75 | 43 | 1006806 | 1921.44 | ug/L | | 93 |
| 44) methacrylonitrile | 9.18 | 67 | 629596 | 203.93 | ug/L | | 95 |
| 45) 1,1,1-trichloroethane | 9.60 | 97 | 2130679 | 180.60 | ug/L | | 94 |
| 46) cyclohexane | 9.71 | 84 | 1907068 | 194.85 | ug/L | | 97 |
| 47) 1,1-dichloropropene | 9.78 | 75 | 1698828 | 178.66 | ug/L | | 96 |
| 48) tert-amyl alcohol | 9.91 | 73 | 501885 | 957.65 | ug/L | | 93 |
| 49) carbon tetrachloride | 9.80 | 117 | 1936262 | 181.96 | ug/L | | 97 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 5105819 | 169.30 | ug/L | | 93 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 3730617 | 168.72 | ug/L | | 93 |
| 54) n-butyl alcohol | 10.50 | 56 | 2802541 | 10236.50 | ug/L | | 95 |
| 55) benzene | 10.02 | 78 | 4295872 | 168.67 | ug/L | | 93 |
| 56) heptane | 10.28 | 57 | 1179216 | 194.04 | ug/L | | 98 |
| 57) isopropyl acetate | 9.94 | 87 | 318969 | 203.10 | ug/L | # | 68 |
| 58) 1,2-dichloroethane | 10.04 | 62 | 2053719 | 171.58 | ug/L | | 95 |
| 59) trichloroethene | 10.74 | 95 | 1330747 | 184.20 | ug/L | | 98 |
| 60) ethyl acrylate | 10.74 | 55 | 2214265 | 193.88 | ug/L | | 95 |
| 61) 2-nitropropane | 11.50 | 41 | 616512 | 206.97 | ug/L | | 97 |
| 62) 2-chloroethyl vinyl ether | 11.54 | 63 | 3656614 | 1467.77 | ug/L | | 84 |
| 63) methyl methacrylate | 11.00 | 100 | 383199 | 215.28 | ug/L | # | 89 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 1406329 | 187.80 | ug/L | | 97 |
| 65) methylcyclohexane | 11.04 | 83 | 2186396 | 185.01 | ug/L | | 97 |
| 66) dibromomethane | 11.14 | 93 | 899104 | 182.51 | ug/L | | 96 |
| 67) bromodichloromethane | 11.30 | 83 | 1866491 | 183.08 | ug/L | | 96 |
| 68) epichlorohydrin | 11.62 | 57 | 899434 | 1015.00 | ug/L | | 95 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 2070525 | 185.80 | ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 2628926 | 744.30 | ug/L | # | 50 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 955927 | 4477.35 | ug/L | # | 83 |
| 74) toluene | 12.14 | 92 | 2835179 | 173.23 | ug/L | # | 81 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 2008871 | 186.40 | ug/L | | 93 |
| 76) ethyl methacrylate | 12.32 | 69 | 1797622 | 195.04 | ug/L | | 95 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 1032478 | 184.53 | ug/L | | 96 |
| 78) 2-hexanone | 12.71 | 58 | 2496455m | 732.02 | ug/L | | |
| 79) tetrachloroethene | 12.68 | 166 | 1438276 | 176.84 | ug/L | | 96 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 1896115 | 175.85 | ug/L | | 95 |
| 81) butyl acetate | 12.79 | 56 | 1139985 | 195.97 | ug/L | # | 81 |
| 82) dibromochloromethane | 12.96 | 129 | 1567845 | 192.82 | ug/L | | 98 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 1307311 | 189.11 | ug/L | | 98 |
| 84) n-butyl ether | 13.56 | 57 | 4656404 | 141.27 | ug/L | | 84 |
| 85) chlorobenzene | 13.59 | 112 | 2958993 | 165.10 | ug/L | | 89 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 1359925 | 191.15 | ug/L | | 97 |
| 87) ethylbenzene | 13.66 | 91 | 4325760 | 138.48 | ug/L | | 78 |
| 88) m,p-xylene | 13.78 | 106 | 4067940m | 340.52 | ug/L | | |
| 89) o-xylene | 14.18 | 91 | 3798015 | 149.84 | ug/L | | 81 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218790.D
Acq On : 31 Jul 2022 9:38 pm
Operator : PrashanS
Sample : IC9511-200
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 14:59:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:56:58 2022
QLast Update : Mon Aug 01 14:57:51 2022
Response via : Initial Calibration

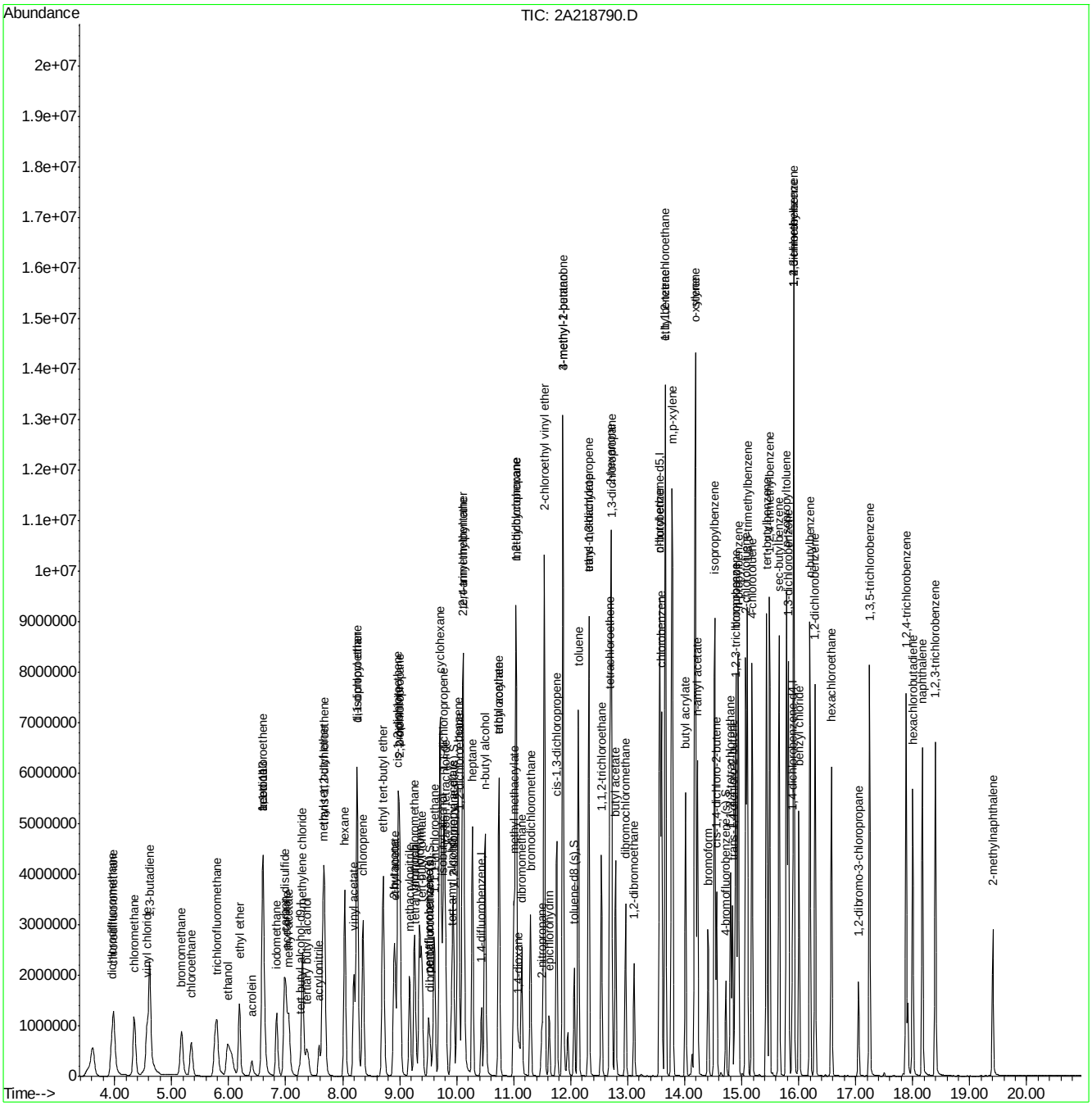
| Internal Standards | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 90) styrene | 14.19 | 104 | 3300708 | 169.75 ug/L | | 94 |
| 91) n-amyl acetate | 14.22 | 70 | 1029302 | 206.73 ug/L | # | 73 |
| 92) bromoform | 14.41 | 173 | 1198100 | 206.29 ug/L | | 99 |
| 93) butyl acrylate | 14.01 | 55 | 3066741 | 177.69 ug/L | | 86 |
| 94) isopropylbenzene | 14.53 | 105 | 4389902 | 144.85 ug/L | | 79 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 703659 | 224.87 ug/L | | 96 |
| 98) bromobenzene | 14.90 | 156 | 1557178 | 174.91 ug/L | | 97 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 1671453 | 177.00 ug/L | | 93 |
| 100) trans-1,4-dichloro-2-buten | 14.84 | 53 | 658540 | 213.72 ug/L | | 95 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 464207 | 192.43 ug/L | | 95 |
| 102) n-propylbenzene | 14.94 | 91 | 4853553 | 133.07 ug/L | | 76 |
| 103) 2-chlorotoluene | 15.07 | 126 | 1422059 | 183.83 ug/L | # | 77 |
| 104) 4-chlorotoluene | 15.18 | 91 | 3533495 | 153.97 ug/L | | 88 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 3795652 | 151.22 ug/L | | 79 |
| 106) tert-butylbenzene | 15.44 | 119 | 3486356 | 161.15 ug/L | | 93 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 3819384 | 149.24 ug/L | | 80 |
| 108) sec-butylbenzene | 15.66 | 105 | 4643148 | 142.58 ug/L | | 79 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 2643128 | 165.79 ug/L | | 92 |
| 110) p-isopropyltoluene | 15.79 | 119 | 4099510 | 148.03 ug/L | | 80 |
| 111) benzyl chloride | 16.01 | 91 | 2869003 | 185.27 ug/L | | 91 |
| 112) 1,2,3-trimethylbenzene | 15.92 | 105 | 3830859 | 144.83 ug/L | | 81 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 2696046 | 162.35 ug/L | | 90 |
| 114) 1,2-dichlorobenzene | 16.29 | 146 | 2578195 | 165.42 ug/L | | 90 |
| 115) n-butylbenzene | 16.19 | 92 | 2538634 | 174.72 ug/L | # | 79 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 428522 | 212.99 ug/L | | 94 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 2098252 | 172.93 ug/L | | 95 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 1935846 | 186.82 ug/L | | 93 |
| 119) hexachlorobutadiene | 18.00 | 225 | 1019566 | 191.66 ug/L | | 98 |
| 120) naphthalene | 18.17 | 128 | 4186948 | 167.97 ug/L | | 88 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 1852704 | 190.22 ug/L | | 98 |
| 122) hexachloroethane | 16.58 | 201 | 958253 | 219.06 ug/L | | 99 |
| 123) 2-methylnaphthalene | 19.41 | 142 | 1401982 | 114.45 ug/L | | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218790.D
Acq On : 31 Jul 2022 9:38 pm
Operator : PrashanS
Sample : IC9511-200
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 14:59:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:56:58 2022
QLast Update : Mon Aug 01 14:57:51 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | V2A9511-IC9511 | **Method:** | SW846 8260D |
| **Lab FileID:** | 2A218790.D | **Analyst approved:** | 08/01/22 15:32 MoHui Huang |
| **Injection Time:** | 07/31/22 21:38 | **Supervisor approved:** | 08/01/22 19:36 Kanya Veerawat |

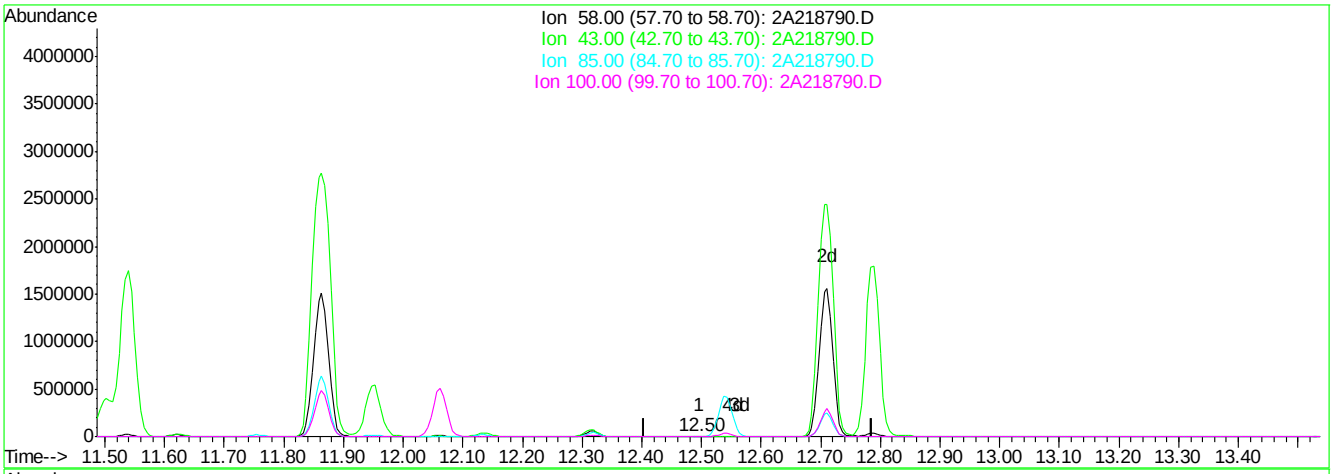
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| 2-Hexanone | 591-78-6 | | 12.71 | Missed peak |
| m,p-Xylene | | | 13.78 | Missed peak |

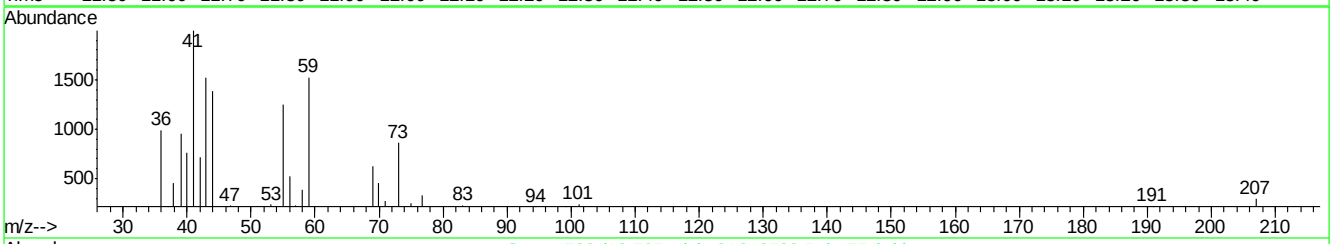
Quantitation Report (Qedit)

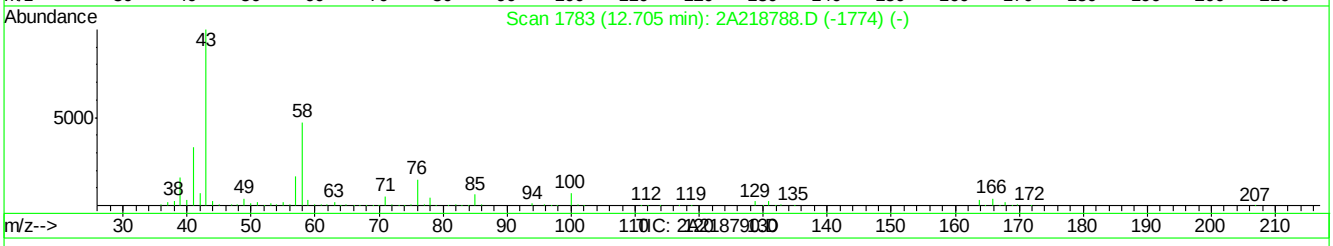
Data File : C:\MSDChem\1\DATA\V2A9511\2A218790.D Vial: 11
Acq On : 31 Jul 2022 9:38 pm Operator: PrashanS
Sample : IC9511-200 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:57:58 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:57:51 2022
Last Update : Mon Aug 01 14:57:51 2022
Response via : Multiple Level Calibration




(78) 2-hexanone

12.50min 0.08ug/L

response 268

| Ion | Exp% | Act% |
|---|---|---|
| 58.00 | 100 | 100 |
| 43.00 | 211.60 | 202.36 |
| 85.00 | 13.20 | 0.00 |
| 100.00 | 15.00 | 0.00 |

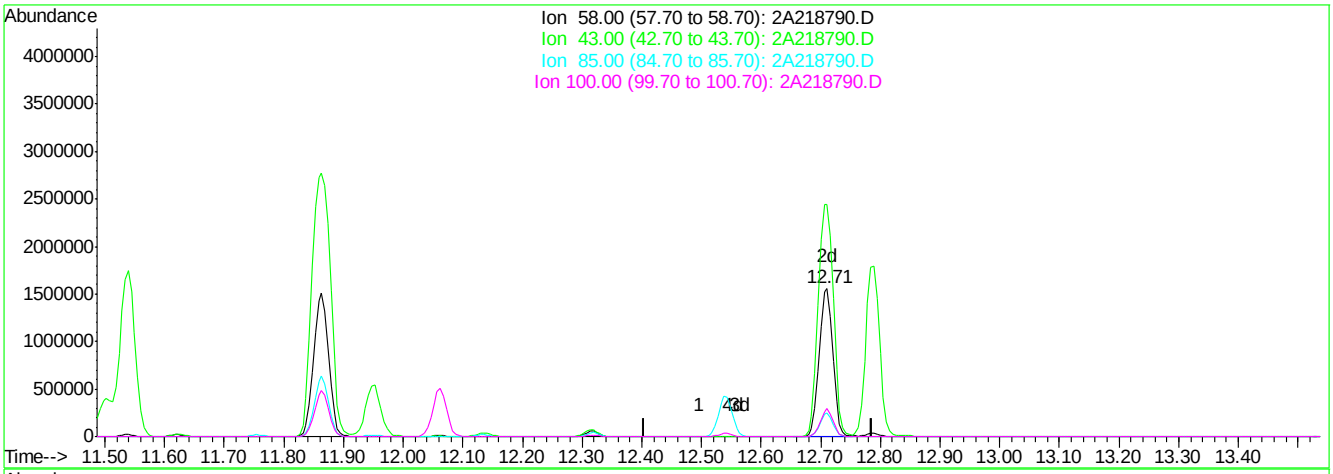
2A218790.D M2A9511.M Mon Aug 01 14:58:38 2022 MS2A

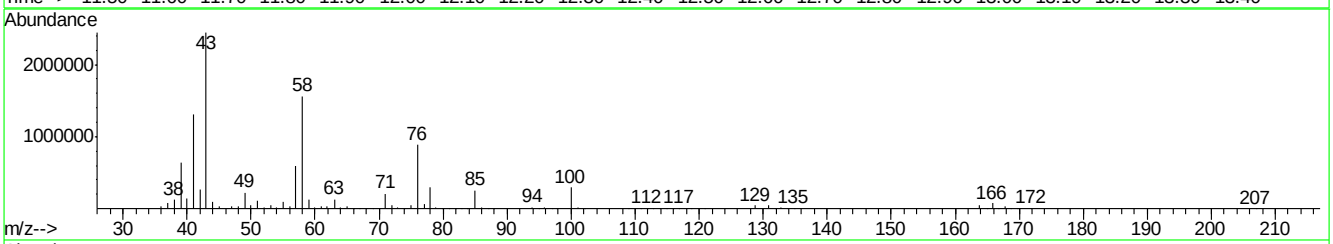
Quantitation Report (Qedit)

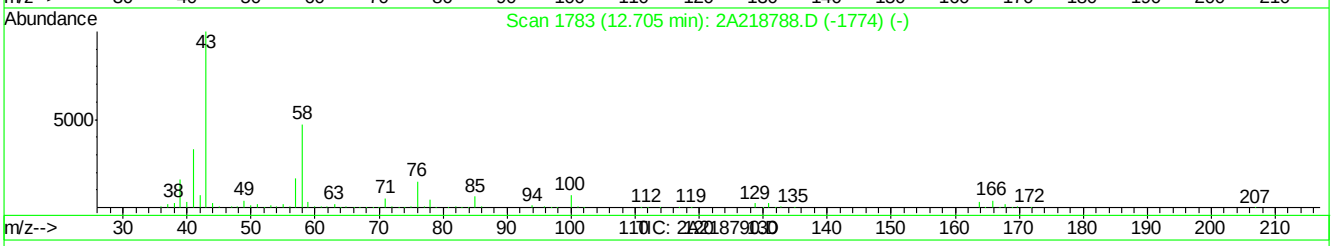
Data File : C:\MSDChem\1\DATA\V2A9511\2A218790.D Vial: 11
Acq On : 31 Jul 2022 9:38 pm Operator: PrashanS
Sample : IC9511-200 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:57:58 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:57:51 2022
Last Update : Mon Aug 01 14:57:51 2022
Response via : Multiple Level Calibration




(78) 2-hexanone

12.71min 732.02ug/L m

response 2496455

| Ion | Exp% | Act% |
|---|---|---|
| 58.00 | 100 | 100 |
| 43.00 | 211.60 | 156.44# |
| 85.00 | 13.20 | 16.03 |
| 100.00 | 15.00 | 18.58 |

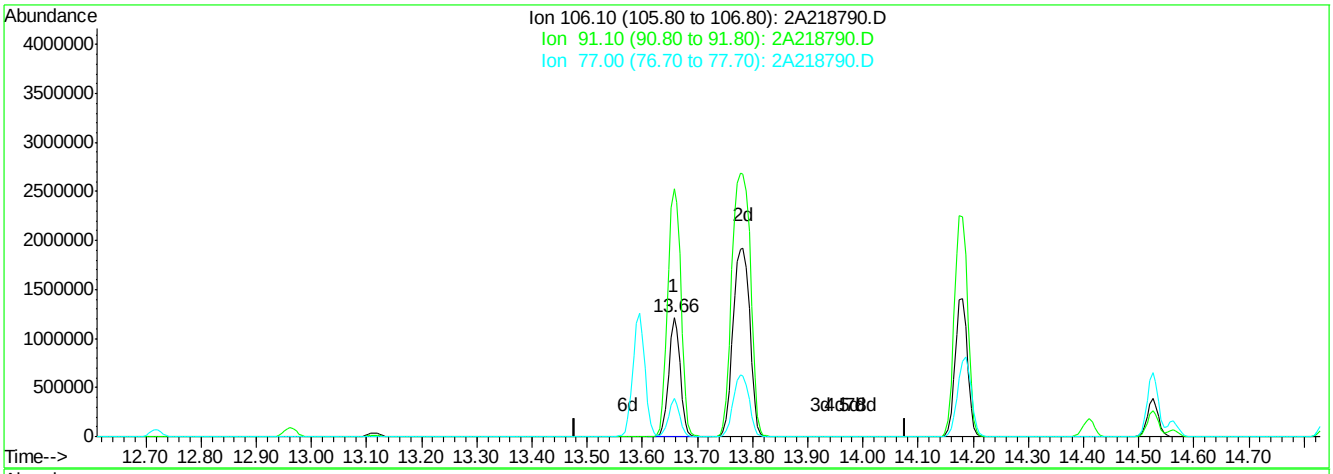
2A218790.D M2A9511.M Mon Aug 01 14:58:59 2022 MS2A

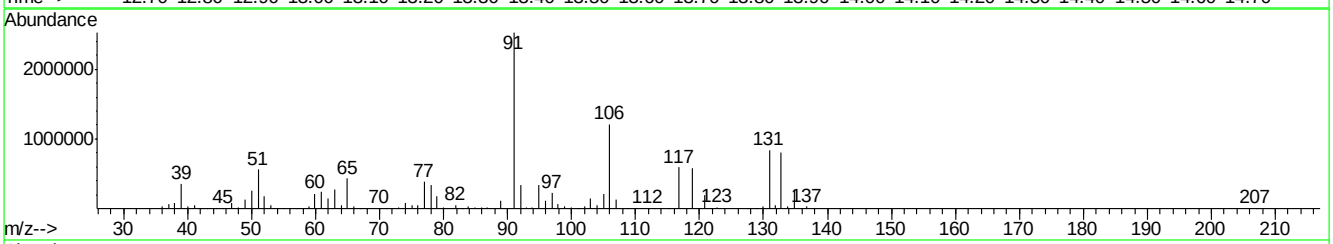
Quantitation Report (Qedit)

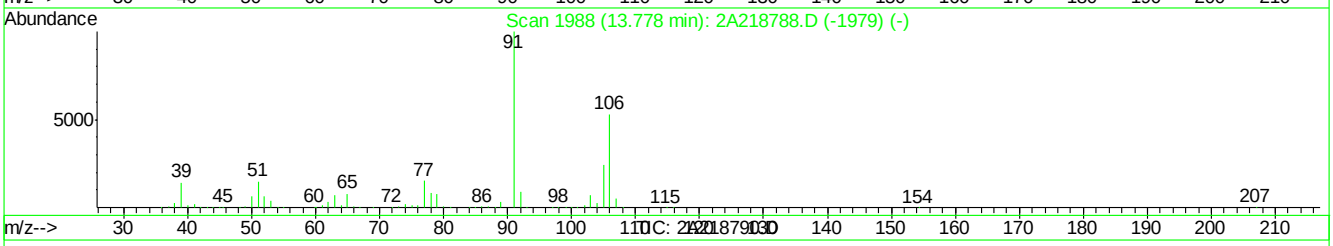
Data File : C:\MSDChem\1\DATA\V2A9511\2A218790.D Vial: 11
Acq On : 31 Jul 2022 9:38 pm Operator: PrashanS
Sample : IC9511-200 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:57:58 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:57:51 2022
Last Update : Mon Aug 01 14:57:51 2022
Response via : Multiple Level Calibration




(88) m,p-xylene

13.66min 149.53ug/L

response 1786280

| Ion | Exp% | Act% |
|---|---|---|
| 106.10 | 100 | 100 |
| 91.10 | 188.10 | 208.07 |
| 77.00 | 28.60 | 31.62 |
| 0.00 | 0.00 | 0.00 |

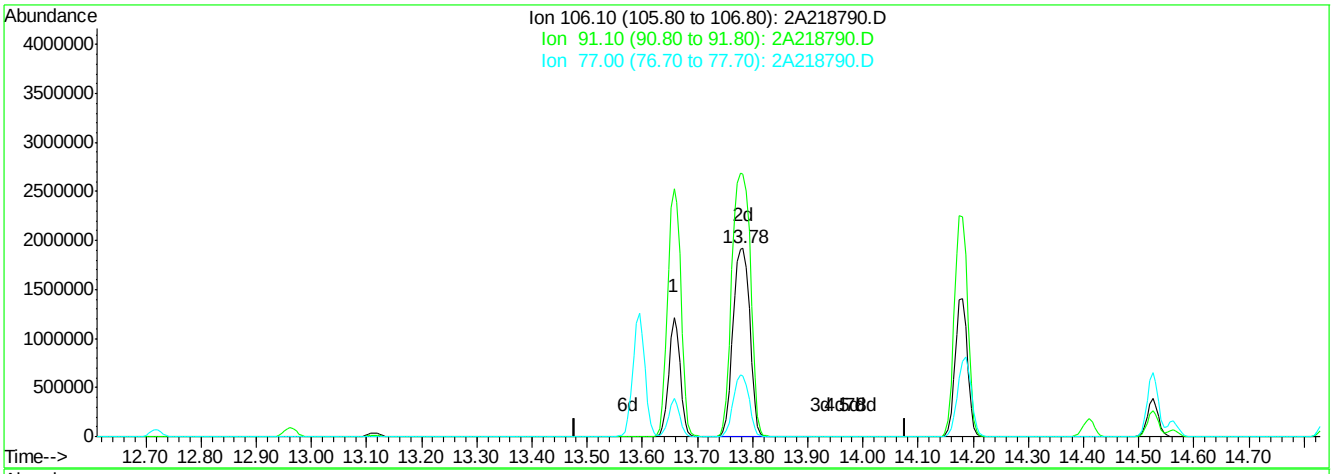
2A218790.D M2A9511.M Mon Aug 01 14:59:10 2022 MS2A

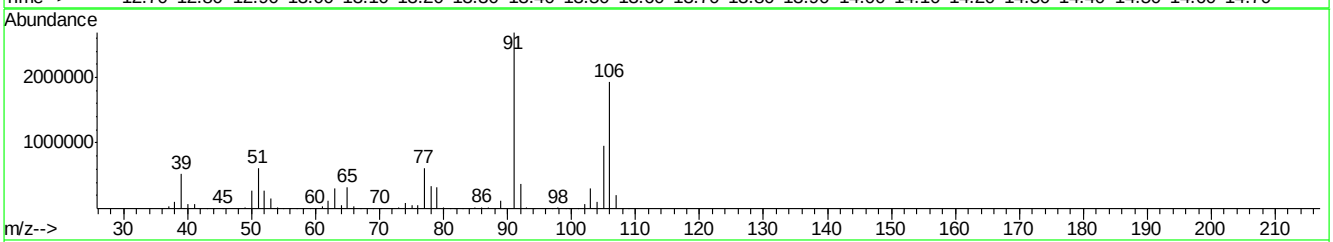
Quantitation Report (Qedit)

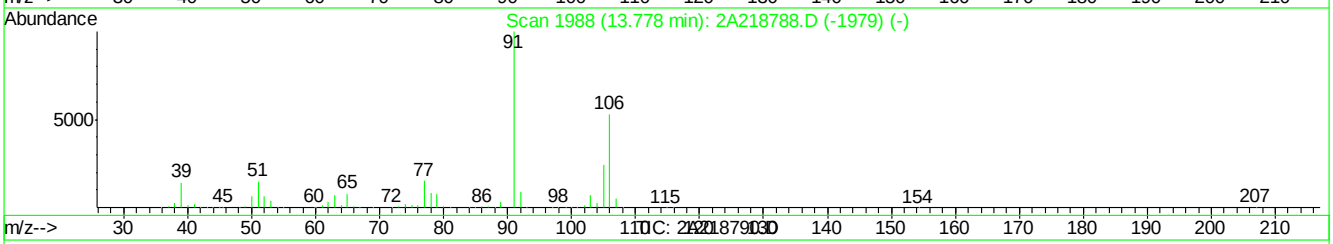
Data File : C:\MSDChem\1\DATA\V2A9511\2A218790.D Vial: 11
Acq On : 31 Jul 2022 9:38 pm Operator: PrashanS
Sample : IC9511-200 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:57:58 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:57:51 2022
Last Update : Mon Aug 01 14:57:51 2022
Response via : Multiple Level Calibration




(88) m,p-xylene

13.78min 340.52ug/L m

response 4067940

| Ion | Exp% | Act% |
|---|---|---|
| 106.10 | 100 | 100 |
| 91.10 | 188.10 | 139.32# |
| 77.00 | 28.60 | 32.26 |
| 0.00 | 0.00 | 0.00 |

2A218790.D M2A9511.M Mon Aug 01 14:59:28 2022 MS2A

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218793.D
Acq On : 31 Jul 2022 11:03 pm
Operator : PrashanS
Sample : ICV9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:16:16 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:09:53 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 445809 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 771519 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 1037484 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 978504 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 534207 | 50.00 | ug/L | | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 768917 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 359805 | 49.54 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.08% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 479151 | 49.68 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.36% | | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1212604 | 50.59 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.18% | | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 495200 | 50.11 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.22% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 548160 | 5047.19 | ug/L | | 97 |
| 3) tertiary butyl alcohol | 7.37 | 59 | 283409 | 258.77 | ug/L | | 98 |
| 4) 1,4-dioxane | 11.08 | 88 | 103513 | 1348.55 | ug/L | | 98 |
| 7) dichlorodifluoromethane | 3.96 | 85 | 504631 | 48.69 | ug/L | | 99 |
| 8) chloromethane | 4.35 | 50 | 581197 | 43.35 | ug/L | | 99 |
| 9) vinyl chloride | 4.57 | 62 | 503038 | 49.05 | ug/L | | 98 |
| 10) 1,3-butadiene | 4.62 | 54 | 521809 | 57.12 | ug/L | | 99 |
| 11) bromomethane | 5.19 | 94 | 304171 | 50.28 | ug/L | | 95 |
| 12) chloroethane | 5.36 | 64 | 260183 | 53.58 | ug/L | | 94 |
| 13) trichlorofluoromethane | 5.79 | 101 | 596548 | 51.92 | ug/L | | 94 |
| 14) ethyl ether | 6.19 | 74 | 180624 | 49.33 | ug/L | | 95 |
| 15) acrolein | 6.41 | 56 | 84396 | 51.51 | ug/L | | 99 |
| 16) freon 113 | 6.61 | 151 | 263505 | 48.25 | ug/L | | 95 |
| 17) 1,1-dichloroethene | 6.60 | 96 | 280795 | 49.05 | ug/L | | 98 |
| 18) acetone | 6.61 | 43 | 557328 | 187.88 | ug/L | | 99 |
| 19) acetonitrile | 7.02 | 41 | 523329 | 427.51 | ug/L | | 99 |
| 20) iodomethane | 6.85 | 142 | 542748 | 48.58 | ug/L | | 98 |
| 21) carbon disulfide | 6.98 | 76 | 968263 | 51.06 | ug/L | | 99 |
| 22) methylene chloride | 7.31 | 84 | 331689 | 48.90 | ug/L | | 98 |
| 23) methyl acetate | 7.06 | 43 | 393735 | 53.25 | ug/L | | 97 |
| 24) methyl tert butyl ether | 7.66 | 73 | 1014871 | 49.72 | ug/L | | 97 |
| 25) trans-1,2-dichloroethene | 7.69 | 96 | 315986 | 48.71 | ug/L | | 95 |
| 26) hexane | 8.04 | 57 | 629374 | 54.59 | ug/L | | 97 |
| 27) di-isopropyl ether | 8.25 | 45 | 1360441 | 48.15 | ug/L | | 99 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 1158329 | 47.10 | ug/L | | 99 |
| 29) 2-butanone | 8.90 | 72 | 173033 | 216.73 | ug/L | | 96 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 616720 | 48.62 | ug/L | | 99 |
| 31) chloroprene | 8.36 | 53 | 656494 | 54.50 | ug/L | | 97 |
| 32) acrylonitrile | 7.59 | 53 | 170484 | 52.09 | ug/L | | 98 |
| 33) vinyl acetate | 8.20 | 86 | 57906 | 48.40 | ug/L | # | 92 |
| 34) ethyl acetate | 8.92 | 45 | 76594 | 51.68 | ug/L | | 93 |
| 35) 2,2-dichloropropane | 9.00 | 77 | 456939 | 45.08 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218793.D
Acq On : 31 Jul 2022 11:03 pm
Operator : PrashanS
Sample : ICV9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:16:16 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:09:53 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 344944 | 48.34 | ug/L | 99 |
| 37) propionitrile | 8.98 | 54 | 591718 | 484.77 | ug/L | 84 |
| 38) bromochloromethane | 9.26 | 130 | 235453 | 49.64 | ug/L | 96 |
| 39) tetrahydrofuran | 9.28 | 42 | 149461 | 44.16 | ug/L | 97 |
| 40) chloroform | 9.35 | 83 | 615437 | 46.70 | ug/L | 99 |
| 41) tert-butyl formate | 9.39 | 59 | 204245 | 31.87 | ug/L | 97 |
| 42) isobutyl alcohol | 9.75 | 43 | 241200 | 472.21 | ug/L | 95 |
| 44) methacrylonitrile | 9.17 | 67 | 158794 | 52.38 | ug/L | 98 |
| 45) 1,1,1-trichloroethane | 9.60 | 97 | 569432 | 49.75 | ug/L | 99 |
| 46) cyclohexane | 9.72 | 84 | 492481 | 51.50 | ug/L | 97 |
| 47) 1,1-dichloropropene | 9.78 | 75 | 456160 | 49.50 | ug/L | 99 |
| 48) tert-amyl alcohol | 9.91 | 73 | 117479 | 230.04 | ug/L | 97 |
| 49) carbon tetrachloride | 9.80 | 117 | 519661 | 50.30 | ug/L | 97 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 1413533 | 48.48 | ug/L | 100 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 964039 | 45.11 | ug/L | 100 |
| 54) n-butyl alcohol | 10.50 | 56 | 707896 | 2626.47 | ug/L | 98 |
| 55) benzene | 10.02 | 78 | 1228169 | 49.89 | ug/L | 99 |
| 56) heptane | 10.28 | 57 | 321460 | 54.03 | ug/L | 98 |
| 57) isopropyl acetate | 9.94 | 87 | 79099 | 51.20 | ug/L | 95 |
| 58) 1,2-dichloroethane | 10.04 | 62 | 551476 | 47.68 | ug/L | 99 |
| 59) trichloroethene | 10.74 | 95 | 349136 | 49.61 | ug/L | 99 |
| 60) ethyl acrylate | 10.74 | 55 | 571460 | 51.13 | ug/L | 99 |
| 61) 2-nitropropane | 11.50 | 41 | 154744 | 52.68 | ug/L | 95 |
| 62) 2-chloroethyl vinyl ether | 11.54 | 63 | 810631 | 230.49 | ug/L | 97 |
| 63) methyl methacrylate | 11.01 | 100 | 94186 | 53.38 | ug/L | 97 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 359442 | 49.22 | ug/L | 99 |
| 65) methylcyclohexane | 11.04 | 83 | 587118 | 50.98 | ug/L | 99 |
| 66) dibromomethane | 11.14 | 93 | 231839 | 48.35 | ug/L | 96 |
| 67) bromodichloromethane | 11.30 | 83 | 495295 | 49.90 | ug/L | 100 |
| 68) epichlorohydrin | 11.62 | 57 | 216005 | 247.79 | ug/L | 100 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 556209 | 51.20 | ug/L | 98 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 691136 | 200.68 | ug/L | 99 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 230963 | 1087.33 | ug/L | 96 |
| 74) toluene | 12.14 | 92 | 784425 | 50.47 | ug/L | 97 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 532792 | 51.71 | ug/L | 99 |
| 76) ethyl methacrylate | 12.31 | 69 | 469179 | 53.03 | ug/L | 99 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 270890 | 50.69 | ug/L | 96 |
| 78) 2-hexanone | 12.71 | 58 | 670802 | 206.28 | ug/L | 96 |
| 79) tetrachloroethene | 12.68 | 166 | 378879 | 48.96 | ug/L | 97 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 499148 | 48.68 | ug/L | 99 |
| 81) butyl acetate | 12.79 | 56 | 306588 | 54.87 | ug/L | 98 |
| 82) dibromochloromethane | 12.96 | 129 | 407592 | 52.26 | ug/L | 99 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 347342 | 52.48 | ug/L | 92 |
| 84) n-butyl ether | 13.56 | 57 | 1537312 | 49.92 | ug/L | 100 |
| 85) chlorobenzene | 13.59 | 112 | 855501 | 50.47 | ug/L | 100 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 345395 | 50.66 | ug/L | 98 |
| 87) ethylbenzene | 13.66 | 91 | 1448324 | 49.69 | ug/L | 99 |
| 88) m,p-xylene | 13.78 | 106 | 1149394 | 101.46 | ug/L | 97 |
| 89) o-xylene | 14.18 | 91 | 1189905 | 50.02 | ug/L | 100 |
| 90) styrene | 14.19 | 104 | 970311 | 52.63 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218793.D
Acq On : 31 Jul 2022 11:03 pm
Operator : PrashanS
Sample : ICV9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:16:16 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:09:53 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

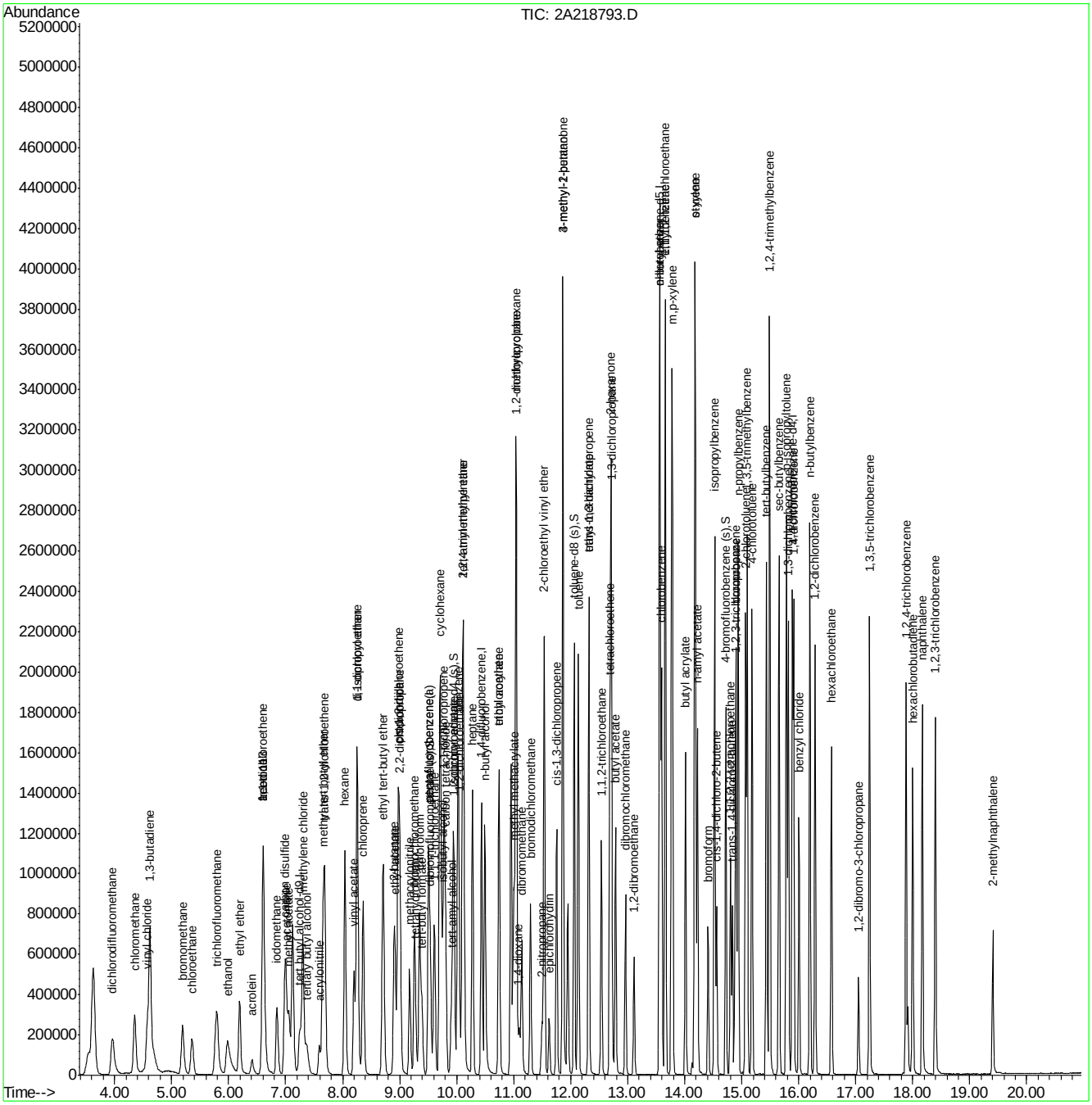
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) n-amyl acetate | 14.22 | 70 | 250835 | 52.14 | ug/L | 96 |
| 92) bromoform | 14.41 | 173 | 300173 | 53.52 | ug/L | 97 |
| 93) butyl acrylate | 14.01 | 55 | 909617 | 55.44 | ug/L | 99 |
| 94) isopropylbenzene | 14.53 | 105 | 1434851 | 50.58 | ug/L | 99 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 163957 | 53.69 | ug/L | 98 |
| 98) bromobenzene | 14.90 | 156 | 412082 | 48.20 | ug/L | 99 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 449547 | 49.52 | ug/L | 97 |
| 100) trans-1,4-dichloro-2-buten | 14.83 | 53 | 166056 | 54.94 | ug/L | 97 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 118265 | 50.62 | ug/L | 98 |
| 102) n-propylbenzene | 14.94 | 91 | 1712642 | 49.95 | ug/L | 99 |
| 103) 2-chlorotoluene | 15.07 | 126 | 374061 | 50.12 | ug/L | 100 |
| 104) 4-chlorotoluene | 15.18 | 91 | 1084340 | 49.73 | ug/L | 99 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 1199084 | 50.35 | ug/L | 99 |
| 106) tert-butylbenzene | 15.44 | 119 | 1031793 | 50.01 | ug/L | 99 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 1213807 | 50.04 | ug/L | 93 |
| 108) sec-butylbenzene | 15.66 | 105 | 1560719 | 50.73 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 757672 | 49.72 | ug/L | 100 |
| 110) p-isopropyltoluene | 15.79 | 119 | 1321261 | 50.36 | ug/L | 99 |
| 111) benzyl chloride | 16.01 | 91 | 733735 | 49.12 | ug/L | 99 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 763183 | 48.16 | ug/L | 99 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 741078 | 49.75 | ug/L | 99 |
| 115) n-butylbenzene | 16.19 | 92 | 726411 | 52.06 | ug/L | 99 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 103729 | 52.63 | ug/L | 96 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 596644 | 51.25 | ug/L | 98 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 533344 | 53.27 | ug/L | 97 |
| 119) hexachlorobutadiene | 18.00 | 225 | 270904 | 52.58 | ug/L | 98 |
| 120) naphthalene | 18.17 | 128 | 1284545 | 53.85 | ug/L | 100 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 497058 | 52.73 | ug/L | 100 |
| 122) hexachloroethane | 16.58 | 201 | 239966 | 55.87 | ug/L | 99 |
| 123) 2-methylnaphthalene | 19.41 | 142 | 333601 | 27.44 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218793.D
Acq On : 31 Jul 2022 11:03 pm
Operator : PrashanS
Sample : ICV9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:16:16 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:09:53 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218794.D
Acq On : 31 Jul 2022 11:31 pm
Operator : PrashanS
Sample : ICV9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 02 08:37:05 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

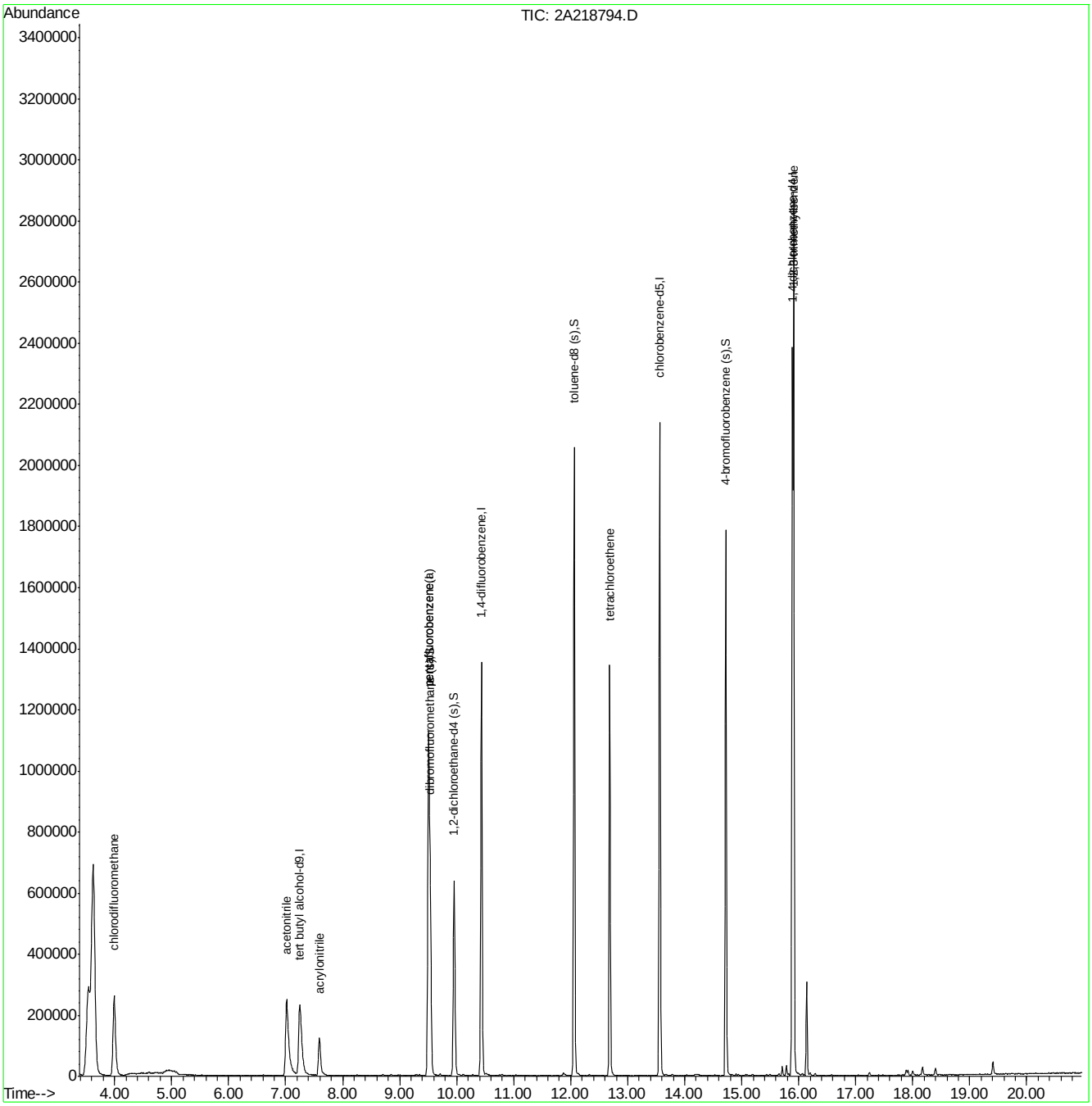
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 452063 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 763795 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 1025003 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 967016 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 523697 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 763699 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 360126 | 50.09 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.18% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 483168 | 50.70 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.40% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1189110 | 50.20 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.40% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 489954 | 50.57 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.14% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 6) chlorodifluoromethane | 3.99 | 51 | 618028 | 59.34 | ug/L | 96 |
| 19) acetonitrile | 7.02 | 41 | 547161 | 451.50 | ug/L | 98 |
| 32) acrylonitrile | 7.59 | 53 | 132327 | 40.84 | ug/L | 99 |
| 79) tetrachloroethene | 12.68 | 166 | 344120 | 45.00 | ug/L | 98 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 1281029 | 52.23 | ug/L | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218794.D
Acq On : 31 Jul 2022 11:31 pm
Operator : PrashanS
Sample : ICV9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 02 08:37:05 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220438.d
Acq On : 30 Sep 2022 9:16 am
Operator : nicoleh
Sample : cc9511-20 Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 30 09:39:38 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) tert butyl alcohol-d9 | 7.251 | 65 | 497683 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 9.511 | 168 | 738209 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 10.439 | 114 | 1143253 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 13.564 | 117 | 1159557 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 591306 | 50.00 | ug/L | | 0.00 |
| 124) pentafluorobenzene(a) | 9.511 | 168 | 737254 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 9.542 | 113 | 381579 | 54.91 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 109.82% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.956 | 65 | 436108 | 41.03 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 82.06% | | | | |
| 73) toluene-d8 (s) | 12.064 | 98 | 1327851 | 46.75 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.50% | | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 584343 | 53.42 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.84% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 5.972 | 45 | 172972 | 1426.64 | ug/L | | 96 |
| 3) tertiary butyl alcohol | 7.366 | 59 | 116333 | 95.15 | ug/L | | 90 |
| 4) 1,4-dioxane | 11.084 | 88 | 36804 | 429.50 | ug/L | | 78 |
| 6) chlorodifluoromethane | 3.995 | 51 | 115418 | 11.47 | ug/L | | 100 |
| 7) dichlorodifluoromethane | 3.964 | 85 | 198520 | 20.02 | ug/L | | 96 |
| 8) chloromethane | 4.352 | 50 | 249210 | 19.42 | ug/L | | 99 |
| 9) vinyl chloride | 4.577 | 62 | 204942 | 20.88 | ug/L | | 95 |
| 10) 1,3-butadiene | 4.619 | 54 | 93826 | 10.73 | ug/L | | 97 |
| 11) bromomethane | 5.196 | 94 | 137899 | 23.83 | ug/L | | 100 |
| 12) chloroethane | 5.358 | 64 | 118650 | 25.54 | ug/L | | 86 |
| 13) trichlorofluoromethane | 5.794 | 101 | 250330 | 22.77 | ug/L | | 91 |
| 14) ethyl ether | 6.192 | 74 | 77127 | 22.02 | ug/L | | 96 |
| 15) acrolein | 6.417 | 56 | 35866 | 22.88 | ug/L | | 94 |
| 16) freon 113 | 6.617 | 151 | 110060 | 21.06 | ug/L | | 98 |
| 17) 1,1-dichloroethene | 6.606 | 96 | 108211 | 19.76 | ug/L | | 94 |
| 18) acetone | 6.611 | 43 | 223753 | 78.83 | ug/L | | 94 |
| 19) acetonitrile | 7.026 | 41 | 244299 | 208.58 | ug/L | | 96 |
| 20) iodomethane | 6.853 | 142 | 218455 | 20.44 | ug/L | | 89 |
| 21) carbon disulfide | 6.989 | 76 | 364135 | 20.07 | ug/L | | 91 |
| 22) methylene chloride | 7.303 | 84 | 142458 | 21.95 | ug/L | | 98 |
| 23) methyl acetate | 7.062 | 43 | 146722 | 20.74 | ug/L | | 99 |
| 24) methyl tert butyl ether | 7.660 | 73 | 429210 | 21.98 | ug/L | | 97 |
| 25) trans-1,2-dichloroethene | 7.691 | 96 | 133220 | 21.46 | ug/L | | 98 |
| 26) hexane | 8.043 | 57 | 238414 | 21.61 | ug/L | | 98 |
| 27) di-isopropyl ether | 8.252 | 45 | 632745 | 23.40 | ug/L | | 97 |
| 28) ethyl tert-butyl ether | 8.714 | 59 | 556359 | 23.64 | ug/L | | 98 |
| 29) 2-butanone | 8.908 | 72 | 71685 | 93.84 | ug/L | | 97 |
| 30) 1,1-dichloroethane | 8.258 | 63 | 269516 | 22.21 | ug/L | | 98 |
| 31) chloroprene | 8.363 | 53 | 237862 | 20.64 | ug/L | | 96 |
| 32) acrylonitrile | 7.597 | 53 | 68650 | 21.92 | ug/L | | 96 |
| 33) vinyl acetate | 8.200 | 86 | 30265 | 26.44 | ug/L | # | 80 |
| 34) ethyl acetate | 8.924 | 45 | 32156 | 22.67 | ug/L | | 95 |
| 35) 2,2-dichloropropane | 9.002 | 77 | 223316 | 23.02 | ug/L | | 98 |
| 36) cis-1,2-dichloroethene | 8.971 | 96 | 157733 | 23.10 | ug/L | | 95 |
| 37) propionitrile | 8.981 | 54 | 273696 | 234.35 | ug/L | | 84 |
| 38) bromochloromethane | 9.264 | 130 | 103267 | 22.75 | ug/L | | 96 |
| 39) tetrahydrofuran | 9.285 | 42 | 62207 | 19.21 | ug/L | | 97 |
| 40) chloroform | 9.354 | 83 | 267456 | 21.21 | ug/L | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220438.d
Acq On : 30 Sep 2022 9:16 am
Operator : nicoleh
Sample : cc9511-20 Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 30 09:39:38 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) tert-butyl formate | 9.390 | 59 | 136643 | 22.28 | ug/L | | 95 |
| 42) isobutyl alcohol | 9.752 | 43 | 96664 | 197.78 | ug/L | | 91 |
| 44) methacrylonitrile | 9.181 | 67 | 68148 | 23.49 | ug/L | | 91 |
| 45) 1,1,1-trichloroethane | 9.610 | 97 | 231146 | 21.11 | ug/L | | 96 |
| 46) cyclohexane | 9.721 | 84 | 234619 | 25.64 | ug/L | | 89 |
| 47) 1,1-dichloropropene | 9.778 | 75 | 193612 | 21.96 | ug/L | | 96 |
| 48) tert-amyl alcohol | 9.909 | 73 | 50278 | 102.89 | ug/L | | 86 |
| 49) carbon tetrachloride | 9.804 | 117 | 205811 | 20.82 | ug/L | | 98 |
| 52) 2,2,4-trimethylpentane | 10.119 | 57 | 613691 | 19.10 | ug/L | | 96 |
| 53) tert-amyl methyl ether | 10.109 | 73 | 482805 | 20.50 | ug/L | | 98 |
| 54) n-butyl alcohol | 10.502 | 56 | 288647 | 971.87 | ug/L | | 90 |
| 55) benzene | 10.025 | 78 | 566694 | 20.89 | ug/L | | 98 |
| 56) heptane | 10.282 | 57 | 113129 | 17.26 | ug/L | | 95 |
| 57) isopropyl acetate | 9.946 | 87 | 34298 | 20.15 | ug/L | # | 79 |
| 58) 1,2-dichloroethane | 10.046 | 62 | 242880 | 19.06 | ug/L | | 99 |
| 59) trichloroethene | 10.748 | 95 | 154028 | 19.86 | ug/L | | 97 |
| 60) ethyl acrylate | 10.743 | 55 | 254102 | 20.63 | ug/L | | 99 |
| 61) 2-nitropropane | 11.503 | 41 | 49341 | 15.24 | ug/L | | 93 |
| 62) 2-chloroethyl vinyl ether | 11.540 | 63 | 117298 | 36.85 | ug/L | | 98 |
| 63) methyl methacrylate | 11.005 | 100 | 41196 | 21.19 | ug/L | # | 83 |
| 64) 1,2-dichloropropane | 11.037 | 63 | 170094 | 21.14 | ug/L | | 96 |
| 65) methylcyclohexane | 11.047 | 83 | 238403 | 18.79 | ug/L | | 99 |
| 66) dibromomethane | 11.141 | 93 | 103719 | 19.63 | ug/L | | 93 |
| 67) bromodichloromethane | 11.299 | 83 | 214250 | 19.59 | ug/L | | 97 |
| 68) epichlorohydrin | 11.624 | 57 | 92403 | 96.20 | ug/L | | 99 |
| 69) cis-1,3-dichloropropene | 11.755 | 75 | 257186 | 21.48 | ug/L | | 87 |
| 70) 4-methyl-2-pentanone | 11.865 | 58 | 304407 | 80.21 | ug/L | | 99 |
| 71) 3-methyl-1-butanol | 11.875 | 70 | 90396 | 386.20 | ug/L | # | 84 |
| 74) toluene | 12.138 | 92 | 353451 | 19.19 | ug/L | | 94 |
| 75) trans-1,3-dichloropropene | 12.321 | 75 | 235119 | 19.26 | ug/L | | 98 |
| 76) ethyl methacrylate | 12.321 | 69 | 212287 | 20.25 | ug/L | | 88 |
| 77) 1,1,2-trichloroethane | 12.541 | 83 | 122288 | 19.31 | ug/L | | 98 |
| 78) 2-hexanone | 12.709 | 58 | 284615 | 73.86 | ug/L | | 92 |
| 79) tetrachloroethene | 12.688 | 166 | 172808 | 18.84 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 12.720 | 76 | 227397 | 18.71 | ug/L | | 98 |
| 81) butyl acetate | 12.788 | 56 | 125846 | 19.01 | ug/L | | 96 |
| 82) dibromochloromethane | 12.961 | 129 | 170896 | 18.49 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.113 | 107 | 146263 | 18.65 | ug/L | | 91 |
| 84) n-butyl ether | 13.564 | 57 | 659691 | 18.08 | ug/L | | 99 |
| 85) chlorobenzene | 13.595 | 112 | 387213 | 19.28 | ug/L | | 96 |
| 86) 1,1,1,2-tetrachloroethane | 13.658 | 131 | 149412 | 18.49 | ug/L | | 95 |
| 87) ethylbenzene | 13.658 | 91 | 641108 | 18.56 | ug/L | | 94 |
| 88) m,p-xylene | 13.779 | 106 | 477393 | 35.56 | ug/L | | 90 |
| 89) o-xylene | 14.177 | 91 | 524989 | 18.62 | ug/L | | 92 |
| 90) styrene | 14.193 | 104 | 392586 | 17.97 | ug/L | | 95 |
| 91) n-amyl acetate | 14.224 | 70 | 99364 | 17.43 | ug/L | | 97 |
| 92) bromoform | 14.413 | 173 | 121397 | 18.27 | ug/L | | 95 |
| 93) butyl acrylate | 14.015 | 55 | 355999 | 18.31 | ug/L | | 98 |
| 94) isopropylbenzene | 14.528 | 105 | 592985 | 17.64 | ug/L | | 97 |
| 95) cis-1,4-dichloro-2-butene | 14.565 | 88 | 45598 | 12.60 | ug/L | | 91 |
| 98) bromobenzene | 14.906 | 156 | 175135 | 18.51 | ug/L | | 92 |
| 99) 1,1,2,2-tetrachloroethane | 14.806 | 83 | 184110 | 18.32 | ug/L | | 98 |
| 100) trans-1,4-dichloro-2-b... | 14.838 | 53 | 41837 | 12.51 | ug/L | | 90 |
| 101) 1,2,3-trichloropropane | 14.890 | 110 | 44978 | 17.39 | ug/L | | 94 |
| 102) n-propylbenzene | 14.943 | 91 | 727995 | 19.18 | ug/L | | 97 |
| 103) 2-chlorotoluene | 15.068 | 126 | 152362 | 18.44 | ug/L | | 86 |
| 104) 4-chlorotoluene | 15.184 | 91 | 457522 | 18.95 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220438.d
Acq On : 30 Sep 2022 9:16 am
Operator : nicoleh
Sample : cc9511-20 Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 30 09:39:38 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

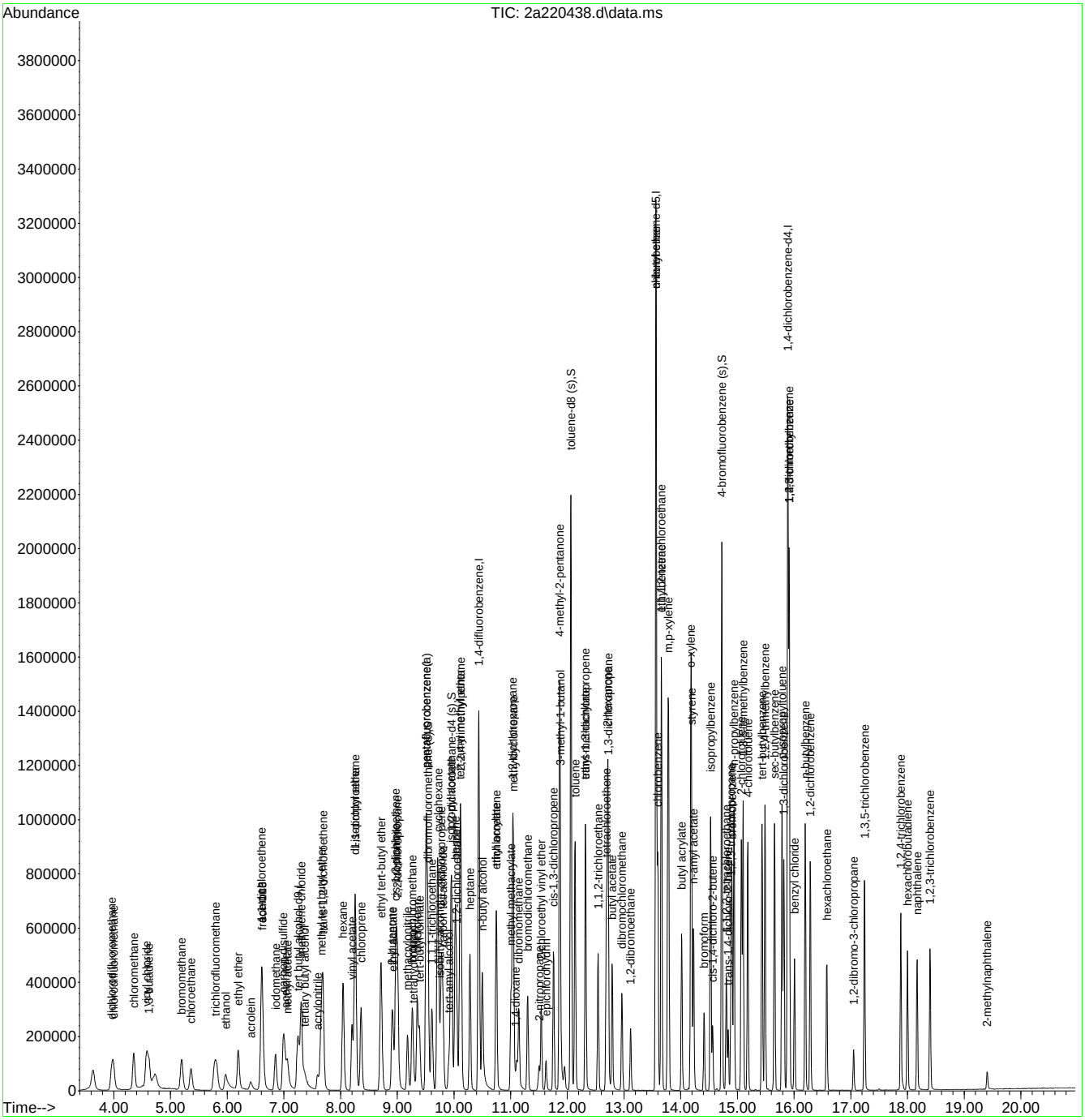
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 105) 1,3,5-trimethylbenzene | 15.100 | 105 | 490880 | 18.62 | ug/L | 100 |
| 106) tert-butylbenzene | 15.435 | 119 | 416821 | 18.25 | ug/L | 96 |
| 107) 1,2,4-trimethylbenzene | 15.488 | 105 | 494168 | 18.40 | ug/L | 99 |
| 108) sec-butylbenzene | 15.656 | 105 | 609524 | 17.90 | ug/L | 98 |
| 109) 1,3-dichlorobenzene | 15.818 | 146 | 310950 | 18.43 | ug/L | 97 |
| 110) p-isopropyltoluene | 15.787 | 119 | 521707 | 17.97 | ug/L | 97 |
| 111) benzyl chloride | 16.007 | 91 | 287869 | 17.41 | ug/L | 99 |
| 112) 1,2,3-trimethylbenzene | 15.913 | 105 | 507272 | 18.32 | ug/L | 96 |
| 113) 1,4-dichlorobenzene | 15.913 | 146 | 306685 | 17.48 | ug/L | 98 |
| 114) 1,2-dichlorobenzene | 16.285 | 146 | 300386 | 18.22 | ug/L | 97 |
| 115) n-butylbenzene | 16.196 | 92 | 260529 | 16.87 | ug/L | 93 |
| 116) 1,2-dibromo-3-chloropr... | 17.050 | 157 | 34979 | 16.03 | ug/L | 92 |
| 117) 1,3,5-trichlorobenzene | 17.244 | 180 | 232418 | 18.04 | ug/L | 97 |
| 118) 1,2,4-trichlorobenzene | 17.884 | 180 | 189867 | 17.13 | ug/L | 97 |
| 119) hexachlorobutadiene | 17.999 | 225 | 100854 | 17.68 | ug/L | 95 |
| 120) naphthalene | 18.172 | 128 | 348439 | 13.20 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 18.398 | 180 | 159772 | 15.31 | ug/L | 98 |
| 122) hexachloroethane | 16.578 | 201 | 73722 | 15.51 | ug/L | 96 |
| 123) 2-methylnaphthalene | 19.404 | 142 | 32793 | 2.44 | ug/L | 93 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220438.d
Acq On : 30 Sep 2022 9:16 am
Operator : nicoleh
Sample : cc9511-20 Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 30 09:39:38 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120248.D
Acq On : 13 Aug 2022 8:38 pm
Operator : PrashanS
Sample : IC5341-0.2
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 18 15:39:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 8.521 | 65 | 481455 | 500.00 | ug/L | -0.02 |
| 5) pentafluorobenzene | 11.022 | 168 | 827567 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 11.919 | 114 | 1083583 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 14.823 | 117 | 1029165 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.931 | 152 | 462207 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 11.022 | 113 | 392478 | 50.04 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.08% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.447 | 65 | 413188 | 49.56 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.12% | | | |
| 74) toluene-d8 (s) | 13.460 | 98 | 1246887 | 50.27 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.54% | | | |
| 97) 4-bromofluorobenzene (s) | 15.867 | 95 | 470002 | 49.79 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.58% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) tertiary butyl alcohol | 8.658 | 59 | 1409 | 1.02 | ug/L # | 43 |
| 6) chlorodifluoromethane | 4.584 | 51 | 1763 | 0.19 | ug/L | 61 |
| 7) dichlorodifluoromethane | 4.547 | 85 | 1974 | 0.19 | ug/L | 77 |
| 9) vinyl chloride | 5.281 | 62 | 1825 | 0.21 | ug/L | 82 |
| 10) 1,3-butadiene | 5.386 | 54 | 1539 | 0.19 | ug/L | 91 |
| 12) chloroethane | 6.298 | 64 | 884 | 0.19 | ug/L # | 44 |
| 13) trichlorofluoromethane | 6.854 | 101 | 1947 | 0.16 | ug/L | 86 |
| 17) 1,1-dichloroethene | 7.840 | 96 | 1482 | 0.23 | ug/L # | 65 |
| 19) acetonitrile | 8.322 | 41 | 2707 | 2.06 | ug/L | 79 |
| 21) carbon disulfide | 8.285 | 76 | 4287 | 0.23 | ug/L | 93 |
| 22) methylene chloride | 8.600 | 84 | 1459 | 0.21 | ug/L | 97 |
| 24) methyl tert butyl ether | 9.035 | 73 | 3955 | 0.19 | ug/L | 93 |
| 25) trans-1,2-dichloroethene | 9.066 | 96 | 1679 | 0.23 | ug/L # | 55 |
| 26) di-isopropyl ether | 9.727 | 45 | 4384 | 0.20 | ug/L | 97 |
| 28) 1,1-dichloroethane | 9.669 | 63 | 2052 | 0.17 | ug/L | 92 |
| 29) chloroprene | 9.832 | 53 | 1609 | 0.18 | ug/L | 84 |
| 31) hexane | 9.491 | 56 | 829 | 0.20 | ug/L # | 74 |
| 33) ethyl tert-butyl ether | 10.230 | 59 | 3981 | 0.19 | ug/L | 94 |
| 35) 2,2-dichloropropane | 10.477 | 77 | 2314 | 0.22 | ug/L | 90 |
| 36) cis-1,2-dichloroethene | 10.451 | 96 | 1781 | 0.22 | ug/L # | 50 |
| 45) 1,1,1-trichloroethane | 11.132 | 97 | 2121 | 0.18 | ug/L # | 68 |
| 46) cyclohexane | 11.242 | 84 | 1580 | 0.18 | ug/L # | 71 |
| 47) 1,1-dichloropropene | 11.326 | 75 | 1822 | 0.20 | ug/L | 87 |
| 49) carbon tetrachloride | 11.358 | 117 | 2095 | 0.19 | ug/L | 84 |
| 54) 2,2,4-trimethylpentane | 11.657 | 57 | 2917 | 0.19 | ug/L | 91 |
| 55) benzene | 11.578 | 78 | 4672 | 0.19 | ug/L | 92 |
| 56) tert-amyl methyl ether | 11.636 | 87 | 886 | 0.18 | ug/L # | 66 |
| 59) 1,2-dichloroethane | 11.546 | 62 | 2600 | 0.24 | ug/L | 89 |
| 60) trichloroethene | 12.259 | 130 | 1353 | 0.18 | ug/L | 97 |
| 65) 1,2-dichloropropane | 12.495 | 63 | 1169 | 0.17 | ug/L # | 48 |
| 66) dibromomethane | 12.611 | 93 | 1113 | 0.21 | ug/L | 82 |
| 67) methylcyclohexane | 12.511 | 83 | 1637 | 0.18 | ug/L | 87 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120248.D
Acq On : 13 Aug 2022 8:38 pm
Operator : PrashanS
Sample : IC5341-0.2
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 18 15:39:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

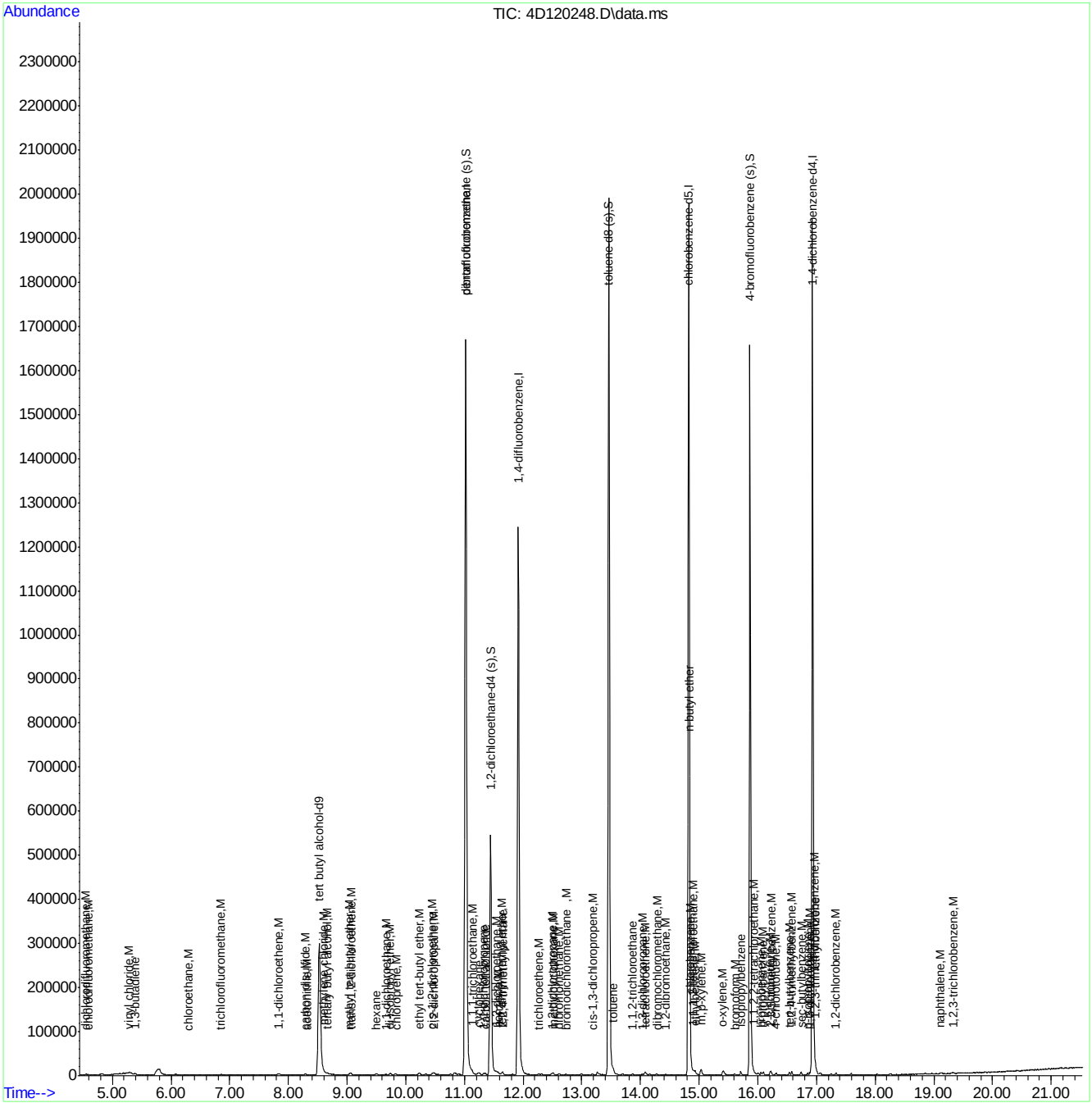
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 68) | bromodichloromethane | 12.737 | 83 | 1924 | 0.19 | ug/L | | 81 |
| 70) | cis-1,3-dichloropropene | 13.182 | 75 | 1976 | 0.18 | ug/L | | 92 |
| 75) | toluene | 13.528 | 92 | 3409 | 0.22 | ug/L | # | 84 |
| 78) | 1,1,2-trichloroethane | 13.864 | 83 | 897 | 0.17 | ug/L | # | 78 |
| 79) | tetrachloroethene | 14.079 | 164 | 1261 | 0.20 | ug/L | | 93 |
| 80) | 1,3-dichloropropane | 14.042 | 76 | 1634 | 0.16 | ug/L | # | 55 |
| 83) | dibromochloromethane | 14.278 | 129 | 1657 | 0.19 | ug/L | | 97 |
| 84) | 1,2-dibromoethane | 14.430 | 107 | 1245 | 0.17 | ug/L | | 92 |
| 85) | n-butyl ether | 14.839 | 57 | 4640 | 0.18 | ug/L | # | 1 |
| 86) | chlorobenzene | 14.855 | 112 | 3735 | 0.20 | ug/L | | 77 |
| 87) | 1,1,1,2-tetrachloroethane | 14.897 | 131 | 1343 | 0.18 | ug/L | # | 57 |
| 88) | ethylbenzene | 14.933 | 91 | 6256 | 0.21 | ug/L | | 97 |
| 89) | m,p-xylene | 15.033 | 106 | 4493 | 0.39 | ug/L | | 98 |
| 90) | o-xylene | 15.405 | 106 | 2236 | 0.20 | ug/L | | 89 |
| 92) | bromoform | 15.610 | 173 | 1263 | 0.19 | ug/L | | 80 |
| 94) | isopropylbenzene | 15.715 | 105 | 5208 | 0.18 | ug/L | | 95 |
| 98) | bromobenzene | 16.050 | 156 | 1667 | 0.20 | ug/L | # | 84 |
| 99) | 1,1,2,2-tetrachloroethane | 15.924 | 83 | 1757 | 0.19 | ug/L | | 92 |
| 102) | n-propylbenzene | 16.092 | 91 | 6075 | 0.20 | ug/L | | 92 |
| 103) | 2-chlorotoluene | 16.213 | 126 | 1327 | 0.19 | ug/L | # | 76 |
| 104) | 4-chlorotoluene | 16.307 | 91 | 4107 | 0.20 | ug/L | | 90 |
| 105) | 1,3,5-trimethylbenzene | 16.234 | 105 | 4408 | 0.20 | ug/L | | 88 |
| 106) | tert-butylbenzene | 16.548 | 134 | 748 | 0.17 | ug/L | # | 64 |
| 107) | 1,2,4-trimethylbenzene | 16.580 | 105 | 4725 | 0.21 | ug/L | | 86 |
| 108) | sec-butylbenzene | 16.737 | 105 | 4811 | 0.19 | ug/L | | 94 |
| 109) | 1,3-dichlorobenzene | 16.889 | 146 | 2723 | 0.19 | ug/L | | 98 |
| 110) | p-isopropyltoluene | 16.852 | 119 | 3617 | 0.17 | ug/L | | 96 |
| 111) | 1,4-dichlorobenzene | 16.957 | 146 | 3040 | 0.20 | ug/L | | 67 |
| 112) | 1,2,3-trimethylbenzene | 16.983 | 105 | 4160 | 0.19 | ug/L | | 93 |
| 114) | 1,2-dichlorobenzene | 17.330 | 146 | 2309 | 0.17 | ug/L | | 98 |
| 120) | naphthalene | 19.112 | 128 | 4334 | 0.24 | ug/L | | 85 |
| 121) | 1,2,3-trichlorobenzene | 19.332 | 180 | 1012 | 0.19 | ug/L | | 82 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120248.D
Acq On : 13 Aug 2022 8:38 pm
Operator : PrashanS
Sample : IC5341-0.2
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 18 15:39:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120249.D
Acq On : 13 Aug 2022 9:06 pm
Operator : PrashanS
Sample : IC5341-0.5
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 18 15:41:45 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 8.526 | 65 | 491415 | 500.00 | ug/L | | -0.01 |
| 5) pentafluorobenzene | 11.027 | 168 | 805965 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 11.919 | 114 | 1057569 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 14.823 | 117 | 1004723 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.931 | 152 | 460910 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 11.022 | 113 | 384127 | 50.29 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.58% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.452 | 65 | 405550 | 49.84 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.68% | | | | |
| 74) toluene-d8 (s) | 13.460 | 98 | 1225141 | 50.59 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.18% | | | | |
| 97) 4-bromofluorobenzene (s) | 15.867 | 95 | 465790 | 49.48 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.96% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) tertiary butyl alcohol | 8.663 | 59 | 3421 | 2.44 | ug/L | | 79 |
| 3) ethanol | 7.142 | 45 | 5452 | 40.21 | ug/L | | 87 |
| 4) 1,4-dioxane | 12.595 | 88 | 1293 | 10.43 | ug/L | | 71 |
| 6) chlorodifluoromethane | 4.578 | 51 | 4359 | 0.49 | ug/L | | 81 |
| 7) dichlorodifluoromethane | 4.542 | 85 | 4815 | 0.47 | ug/L | | 96 |
| 8) chloromethane | 5.034 | 50 | 5026 | 0.58 | ug/L | | 92 |
| 9) vinyl chloride | 5.291 | 62 | 4169 | 0.49 | ug/L | | 94 |
| 10) 1,3-butadiene | 5.386 | 54 | 3879 | 0.50 | ug/L | | 97 |
| 11) bromomethane | 6.073 | 94 | 3013 | 0.59 | ug/L | | 91 |
| 12) chloroethane | 6.293 | 64 | 2078 | 0.46 | ug/L | | 91 |
| 13) trichlorofluoromethane | 6.859 | 101 | 5559 | 0.46 | ug/L | | 95 |
| 16) freon 113 | 7.840 | 151 | 2688 | 0.47 | ug/L | # | 84 |
| 17) 1,1-dichloroethene | 7.840 | 96 | 3379 | 0.53 | ug/L | | 81 |
| 19) acetonitrile | 8.322 | 41 | 6540 | 5.11 | ug/L | | 86 |
| 21) carbon disulfide | 8.285 | 76 | 8826 | 0.50 | ug/L | | 97 |
| 22) methylene chloride | 8.595 | 84 | 3359 | 0.49 | ug/L | | 96 |
| 24) methyl tert butyl ether | 9.035 | 73 | 9429 | 0.48 | ug/L | | 95 |
| 25) trans-1,2-dichloroethene | 9.072 | 96 | 4059 | 0.58 | ug/L | | 89 |
| 26) di-isopropyl ether | 9.732 | 45 | 10059 | 0.48 | ug/L | | 84 |
| 28) 1,1-dichloroethane | 9.664 | 63 | 5584 | 0.48 | ug/L | | 89 |
| 29) chloroprene | 9.821 | 53 | 3860 | 0.44 | ug/L | | 86 |
| 31) hexane | 9.491 | 56 | 1798 | 0.44 | ug/L | | 94 |
| 33) ethyl tert-butyl ether | 10.225 | 59 | 9314 | 0.46 | ug/L | | 91 |
| 35) 2,2-dichloropropane | 10.477 | 77 | 5309 | 0.51 | ug/L | | 95 |
| 36) cis-1,2-dichloroethene | 10.461 | 96 | 4508 | 0.58 | ug/L | | 79 |
| 38) propionitrile | 10.487 | 54 | 5766 | 4.41 | ug/L | | 92 |
| 39) bromochloromethane | 10.770 | 128 | 1741 | 0.44 | ug/L | | 87 |
| 41) chloroform | 10.823 | 85 | 5403 | 0.62 | ug/L | | 98 |
| 45) 1,1,1-trichloroethane | 11.132 | 97 | 5446 | 0.49 | ug/L | | 83 |
| 46) cyclohexane | 11.253 | 84 | 4205 | 0.48 | ug/L | # | 79 |
| 47) 1,1-dichloropropene | 11.326 | 75 | 4173 | 0.48 | ug/L | | 94 |
| 49) carbon tetrachloride | 11.358 | 117 | 5177 | 0.49 | ug/L | | 89 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120249.D
Acq On : 13 Aug 2022 9:06 pm
Operator : PrashanS
Sample : IC5341-0.5
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 18 15:41:45 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 50) tert amyl alcohol | 11.421 | 55 | 1162 | 2.50 | ug/L | # | 39 |
| 54) 2,2,4-trimethylpentane | 11.656 | 57 | 7237 | 0.48 | ug/L | | 95 |
| 55) benzene | 11.578 | 78 | 11610 | 0.48 | ug/L | | 99 |
| 56) tert-amyl methyl ether | 11.646 | 87 | 2192 | 0.46 | ug/L | # | 81 |
| 57) heptane | 11.819 | 71 | 1507 | 0.44 | ug/L | | 95 |
| 59) 1,2-dichloroethane | 11.541 | 62 | 5591 | 0.54 | ug/L | | 97 |
| 60) trichloroethene | 12.265 | 130 | 3311 | 0.45 | ug/L | | 95 |
| 62) 2-nitropropane | 12.915 | 43 | 1441 | 0.45 | ug/L | | 96 |
| 65) 1,2-dichloropropane | 12.485 | 63 | 3014 | 0.46 | ug/L | | 99 |
| 66) dibromomethane | 12.611 | 93 | 2304 | 0.45 | ug/L | | 82 |
| 67) methylcyclohexane | 12.511 | 83 | 4016 | 0.45 | ug/L | | 95 |
| 68) bromodichloromethane | 12.731 | 83 | 4802 | 0.49 | ug/L | | 94 |
| 69) epichlorohydrin | 13.062 | 57 | 2015 | 2.19 | ug/L | | 90 |
| 70) cis-1,3-dichloropropene | 13.177 | 75 | 4844 | 0.46 | ug/L | | 93 |
| 71) 4-methyl-2-pentanone | 13.266 | 58 | 5789 | 1.76 | ug/L | # | 86 |
| 75) toluene | 13.533 | 92 | 7522 | 0.49 | ug/L | | 92 |
| 76) trans-1,3-dichloropropene | 13.675 | 75 | 4025 | 0.41 | ug/L | | 95 |
| 77) ethyl methacrylate | 13.738 | 69 | 3733 | 0.43 | ug/L | # | 80 |
| 78) 1,1,2-trichloroethane | 13.864 | 83 | 2532 | 0.49 | ug/L | | 96 |
| 79) tetrachloroethene | 14.084 | 164 | 3090 | 0.49 | ug/L | | 82 |
| 80) 1,3-dichloropropane | 14.042 | 76 | 4633 | 0.47 | ug/L | # | 70 |
| 81) 2-hexanone | 14.063 | 58 | 5224 | 1.60 | ug/L | | 87 |
| 82) butyl acetate | 14.152 | 56 | 1929 | 0.42 | ug/L | # | 50 |
| 83) dibromochloromethane | 14.273 | 129 | 3806 | 0.45 | ug/L | | 92 |
| 84) 1,2-dibromoethane | 14.420 | 107 | 3281 | 0.47 | ug/L | | 89 |
| 85) n-butyl ether | 14.828 | 57 | 11324 | 0.45 | ug/L | # | 1 |
| 86) chlorobenzene | 14.849 | 112 | 8463 | 0.47 | ug/L | | 97 |
| 87) 1,1,1,2-tetrachloroethane | 14.902 | 131 | 3538 | 0.49 | ug/L | | 88 |
| 88) ethylbenzene | 14.928 | 91 | 13591 | 0.47 | ug/L | | 95 |
| 89) m,p-xylene | 15.028 | 106 | 10755 | 0.97 | ug/L | | 96 |
| 90) o-xylene | 15.400 | 106 | 5168 | 0.46 | ug/L | | 90 |
| 92) bromoform | 15.604 | 173 | 2981 | 0.46 | ug/L | | 88 |
| 94) isopropylbenzene | 15.709 | 105 | 13058 | 0.47 | ug/L | | 95 |
| 98) bromobenzene | 16.055 | 156 | 3770 | 0.44 | ug/L | | 94 |
| 99) 1,1,2,2-tetrachloroethane | 15.924 | 83 | 4203 | 0.45 | ug/L | | 96 |
| 101) 1,2,3-trichloropropane | 16.008 | 110 | 1183 | 0.42 | ug/L | | 76 |
| 102) n-propylbenzene | 16.092 | 91 | 14230 | 0.46 | ug/L | | 98 |
| 103) 2-chlorotoluene | 16.207 | 126 | 3252 | 0.46 | ug/L | | 95 |
| 104) 4-chlorotoluene | 16.302 | 91 | 9693 | 0.48 | ug/L | | 95 |
| 105) 1,3,5-trimethylbenzene | 16.223 | 105 | 9893 | 0.45 | ug/L | | 96 |
| 106) tert-butylbenzene | 16.543 | 134 | 2013 | 0.46 | ug/L | # | 65 |
| 107) 1,2,4-trimethylbenzene | 16.580 | 105 | 10158 | 0.46 | ug/L | | 98 |
| 108) sec-butylbenzene | 16.737 | 105 | 11106 | 0.44 | ug/L | | 99 |
| 109) 1,3-dichlorobenzene | 16.889 | 146 | 6379 | 0.45 | ug/L | | 99 |
| 110) p-isopropyltoluene | 16.847 | 119 | 8916 | 0.43 | ug/L | | 98 |
| 111) 1,4-dichlorobenzene | 16.957 | 146 | 7398 | 0.50 | ug/L | | 87 |
| 112) 1,2,3-trimethylbenzene | 16.978 | 105 | 10157 | 0.47 | ug/L | | 99 |
| 114) 1,2-dichlorobenzene | 17.329 | 146 | 5701 | 0.43 | ug/L | | 96 |
| 117) 1,3,5-trichlorobenzene | 18.252 | 180 | 3363 | 0.43 | ug/L | | 75 |
| 119) hexachlorobutadiene | 18.965 | 225 | 1286 | 0.44 | ug/L | | 85 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120249.D
Acq On : 13 Aug 2022 9:06 pm
Operator : PrashanS
Sample : IC5341-0.5
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 18 15:41:45 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

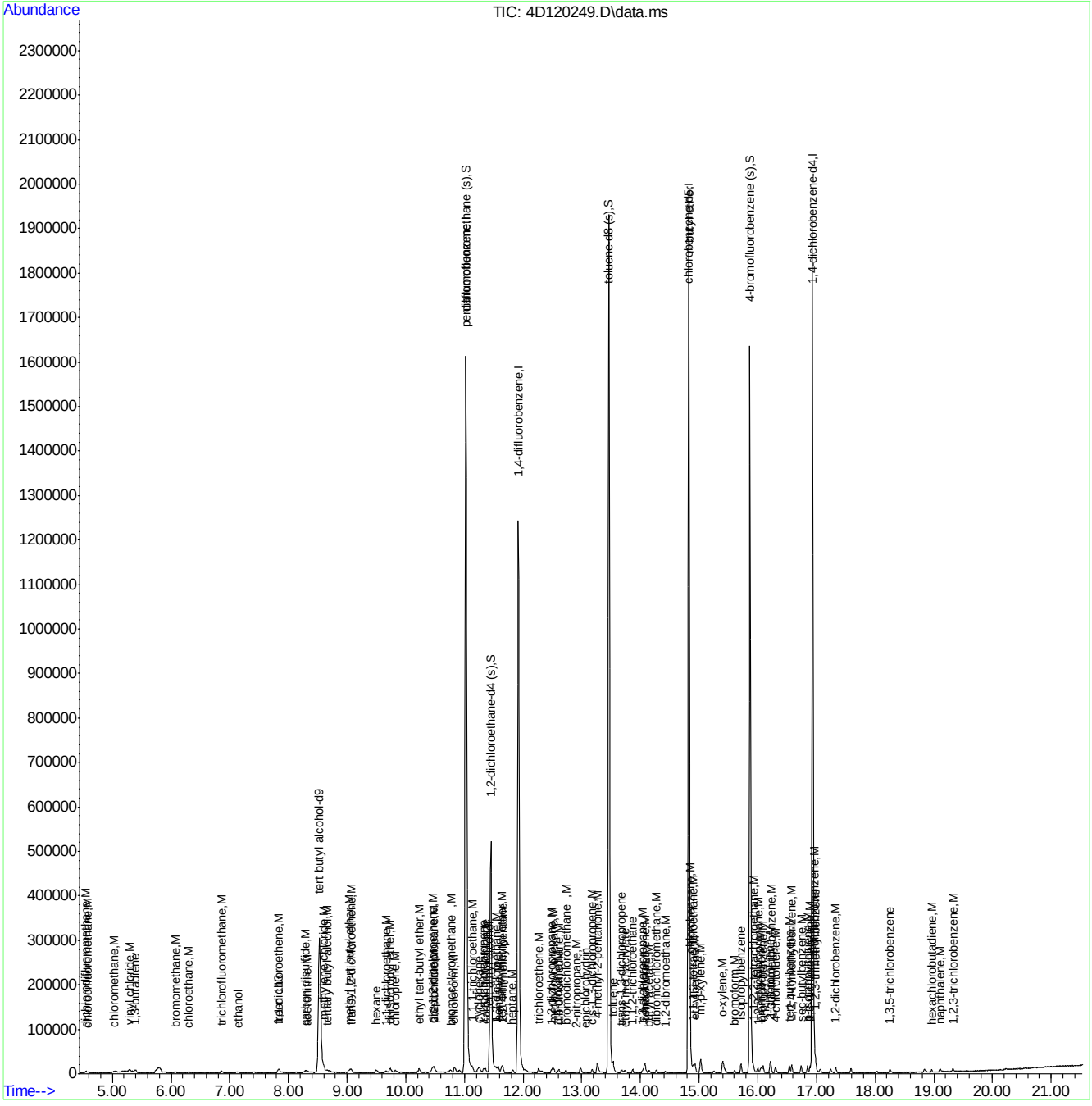
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 120) naphthalene | 19.107 | 128 | 8484 | 0.46 | ug/L | 93 |
| 121) 1,2,3-trichlorobenzene | 19.322 | 180 | 2462 | 0.46 | ug/L | 95 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120249.D
Acq On : 13 Aug 2022 9:06 pm
Operator : PrashanS
Sample : IC5341-0.5
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 18 15:41:45 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120250.D
Acq On : 13 Aug 2022 9:35 pm
Operator : PrashanS
Sample : IC5341-1
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 15:43:27 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 8.532 | 65 | 486500 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 11.027 | 168 | 802031 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 11.919 | 114 | 1052907 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 14.823 | 117 | 1003185 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.931 | 152 | 457094 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 11.022 | 113 | 382742 | 50.35 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.70% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.447 | 65 | 401990 | 49.62 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.24% | | | | |
| 74) toluene-d8 (s) | 13.460 | 98 | 1217989 | 50.38 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.76% | | | | |
| 97) 4-bromofluorobenzene (s) | 15.867 | 95 | 462561 | 49.55 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.10% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) tertiary butyl alcohol | 8.668 | 59 | 6599 | 4.75 | ug/L | | 90 |
| 3) ethanol | 7.111 | 45 | 12548 | 93.48 | ug/L | | 99 |
| 4) 1,4-dioxane | 12.595 | 88 | 3022 | 24.61 | ug/L | | 78 |
| 6) chlorodifluoromethane | 4.584 | 51 | 8407 | 0.95 | ug/L | | 92 |
| 7) dichlorodifluoromethane | 4.558 | 85 | 9371 | 0.91 | ug/L | | 93 |
| 8) chloromethane | 5.040 | 50 | 8485 | 0.98 | ug/L | | 91 |
| 9) vinyl chloride | 5.292 | 62 | 8345 | 0.98 | ug/L | | 93 |
| 10) 1,3-butadiene | 5.396 | 54 | 7460 | 0.96 | ug/L | | 94 |
| 11) bromomethane | 6.073 | 94 | 5542 | 1.09 | ug/L | | 93 |
| 12) chloroethane | 6.298 | 64 | 4095 | 0.92 | ug/L | | 89 |
| 13) trichlorofluoromethane | 6.854 | 101 | 11483 | 0.95 | ug/L | | 99 |
| 14) ethyl ether | 7.394 | 74 | 3196 | 0.89 | ug/L | | 76 |
| 16) freon 113 | 7.834 | 151 | 5027 | 0.88 | ug/L | | 97 |
| 17) 1,1-dichloroethene | 7.834 | 96 | 6533 | 1.03 | ug/L | # | 78 |
| 18) acetone | 7.882 | 58 | 1862 | 2.51 | ug/L | # | 63 |
| 19) acetonitrile | 8.312 | 41 | 11744 | 9.23 | ug/L | | 99 |
| 21) carbon disulfide | 8.291 | 76 | 16369 | 0.92 | ug/L | | 94 |
| 22) methylene chloride | 8.600 | 84 | 6530 | 0.96 | ug/L | | 87 |
| 24) methyl tert butyl ether | 9.040 | 73 | 18696 | 0.95 | ug/L | | 97 |
| 25) trans-1,2-dichloroethene | 9.067 | 96 | 6838 | 0.98 | ug/L | | 93 |
| 26) di-isopropyl ether | 9.732 | 45 | 19795 | 0.95 | ug/L | | 80 |
| 27) 2-butanone | 10.419 | 72 | 3463 | 3.23 | ug/L | # | 71 |
| 28) 1,1-dichloroethane | 9.659 | 63 | 11012 | 0.96 | ug/L | | 95 |
| 29) chloroprene | 9.816 | 53 | 7635 | 0.88 | ug/L | | 97 |
| 31) hexane | 9.491 | 56 | 3671 | 0.91 | ug/L | | 94 |
| 33) ethyl tert-butyl ether | 10.225 | 59 | 19055 | 0.94 | ug/L | | 98 |
| 35) 2,2-dichloropropane | 10.477 | 77 | 9944 | 0.96 | ug/L | | 98 |
| 36) cis-1,2-dichloroethene | 10.461 | 96 | 7291 | 0.94 | ug/L | | 85 |
| 37) methyl acrylate | 10.582 | 55 | 6319 | 0.88 | ug/L | | 84 |
| 38) propionitrile | 10.461 | 54 | 12213 | 9.38 | ug/L | | 95 |
| 39) bromochloromethane | 10.765 | 128 | 3639 | 0.93 | ug/L | | 81 |
| 41) chloroform | 10.833 | 85 | 9020 | 1.03 | ug/L | | 81 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120250.D
Acq On : 13 Aug 2022 9:35 pm
Operator : PrashanS
Sample : IC5341-1
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 15:43:27 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 42) | t-butyl formate | 10.912 | 59 | 5333 | 0.89 | ug/L | | 88 |
| 44) | methacrylonitrile | 10.702 | 67 | 2861 | 0.88 | ug/L | # | 79 |
| 45) | 1,1,1-trichloroethane | 11.138 | 97 | 10494 | 0.94 | ug/L | | 97 |
| 46) | cyclohexane | 11.253 | 84 | 8441 | 0.97 | ug/L | # | 71 |
| 47) | 1,1-dichloropropene | 11.326 | 75 | 7881 | 0.90 | ug/L | | 96 |
| 49) | carbon tetrachloride | 11.358 | 117 | 9969 | 0.94 | ug/L | | 98 |
| 50) | tert amyl alcohol | 11.410 | 55 | 2236 | 4.83 | ug/L | # | 83 |
| 54) | 2,2,4-trimethylpentane | 11.657 | 57 | 14672 | 0.97 | ug/L | | 94 |
| 55) | benzene | 11.573 | 78 | 23097 | 0.95 | ug/L | | 98 |
| 56) | tert-amyl methyl ether | 11.641 | 87 | 4249 | 0.90 | ug/L | # | 87 |
| 57) | heptane | 11.819 | 71 | 3047 | 0.89 | ug/L | | 97 |
| 58) | isopropyl acetate | 11.515 | 87 | 1512 | 0.87 | ug/L | # | 75 |
| 59) | 1,2-dichloroethane | 11.546 | 62 | 9664 | 0.93 | ug/L | | 96 |
| 60) | trichloroethene | 12.265 | 130 | 7005 | 0.96 | ug/L | | 97 |
| 61) | ethyl acrylate | 12.286 | 55 | 8736 | 0.87 | ug/L | | 88 |
| 62) | 2-nitropropane | 12.910 | 43 | 2838 | 0.89 | ug/L | | 89 |
| 63) | 2-chloroethyl vinyl ether | 12.973 | 63 | 13133 | 3.91 | ug/L | | 99 |
| 65) | 1,2-dichloropropane | 12.480 | 63 | 6247 | 0.96 | ug/L | | 91 |
| 66) | dibromomethane | 12.611 | 93 | 5091 | 0.99 | ug/L | | 97 |
| 67) | methylcyclohexane | 12.511 | 83 | 8203 | 0.92 | ug/L | | 95 |
| 68) | bromodichloromethane | 12.726 | 83 | 8864 | 0.91 | ug/L | | 97 |
| 69) | epichlorohydrin | 13.062 | 57 | 4120 | 4.49 | ug/L | | 98 |
| 70) | cis-1,3-dichloropropene | 13.172 | 75 | 9617 | 0.91 | ug/L | | 97 |
| 71) | 4-methyl-2-pentanone | 13.266 | 58 | 11937 | 3.64 | ug/L | | 89 |
| 75) | toluene | 13.534 | 92 | 14318 | 0.93 | ug/L | | 99 |
| 76) | trans-1,3-dichloropropene | 13.675 | 75 | 8853 | 0.91 | ug/L | | 96 |
| 77) | ethyl methacrylate | 13.717 | 69 | 7430 | 0.86 | ug/L | | 96 |
| 78) | 1,1,2-trichloroethane | 13.864 | 83 | 4843 | 0.94 | ug/L | | 91 |
| 79) | tetrachloroethene | 14.074 | 164 | 5781 | 0.93 | ug/L | | 93 |
| 80) | 1,3-dichloropropane | 14.032 | 76 | 9418 | 0.96 | ug/L | # | 61 |
| 81) | 2-hexanone | 14.053 | 58 | 11619 | 3.56 | ug/L | | 95 |
| 82) | butyl acetate | 14.142 | 56 | 3952 | 0.87 | ug/L | | 89 |
| 83) | dibromochloromethane | 14.268 | 129 | 7513 | 0.89 | ug/L | | 95 |
| 84) | 1,2-dibromoethane | 14.414 | 107 | 6328 | 0.91 | ug/L | | 99 |
| 85) | n-butyl ether | 14.823 | 57 | 22408 | 0.90 | ug/L | # | 1 |
| 86) | chlorobenzene | 14.855 | 112 | 17117 | 0.95 | ug/L | | 92 |
| 87) | 1,1,1,2-tetrachloroethane | 14.902 | 131 | 6456 | 0.90 | ug/L | | 89 |
| 88) | ethylbenzene | 14.928 | 91 | 27192 | 0.95 | ug/L | | 94 |
| 89) | m,p-xylene | 15.023 | 106 | 20772 | 1.87 | ug/L | | 97 |
| 90) | o-xylene | 15.400 | 106 | 10551 | 0.95 | ug/L | | 87 |
| 91) | styrene | 15.405 | 104 | 15788 | 0.84 | ug/L | | 95 |
| 92) | bromoform | 15.605 | 173 | 5584 | 0.86 | ug/L | | 89 |
| 93) | butyl acrylate | 15.238 | 55 | 10287 | 0.81 | ug/L | | 99 |
| 94) | isopropylbenzene | 15.709 | 105 | 24944 | 0.90 | ug/L | | 96 |
| 98) | bromobenzene | 16.055 | 156 | 7756 | 0.92 | ug/L | | 98 |
| 99) | 1,1,2,2-tetrachloroethane | 15.924 | 83 | 8291 | 0.90 | ug/L | | 97 |
| 101) | 1,2,3-trichloropropane | 15.998 | 110 | 2545 | 0.92 | ug/L | | 89 |
| 102) | n-propylbenzene | 16.082 | 91 | 27825 | 0.91 | ug/L | | 97 |
| 103) | 2-chlorotoluene | 16.208 | 126 | 6266 | 0.89 | ug/L | | 89 |
| 104) | 4-chlorotoluene | 16.297 | 91 | 18866 | 0.94 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120250.D
Acq On : 13 Aug 2022 9:35 pm
Operator : PrashanS
Sample : IC5341-1
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 15:43:27 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

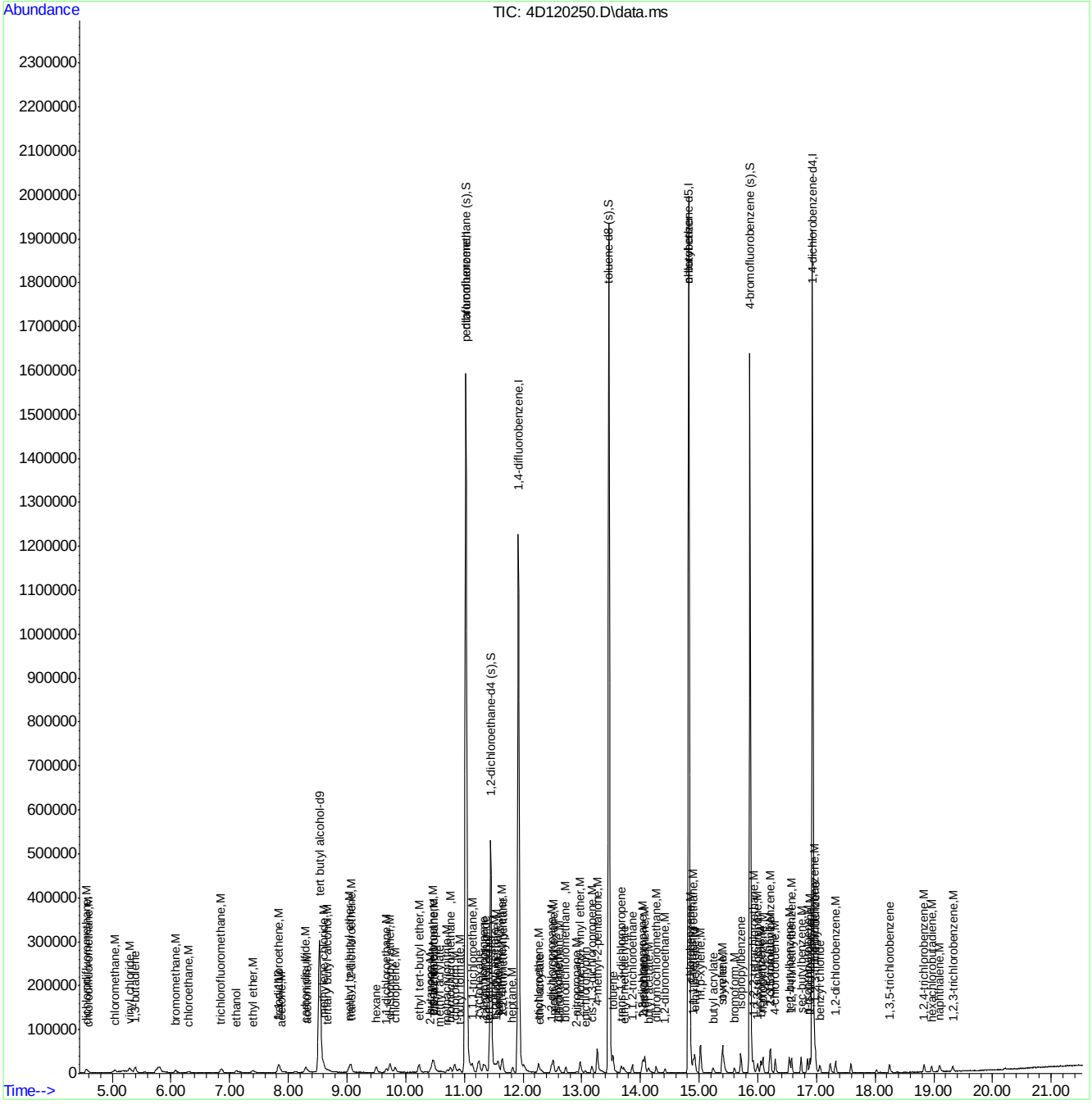
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 105) 1,3,5-trimethylbenzene | 16.218 | 105 | 19569 | 0.90 | ug/L | 96 |
| 106) tert-butylbenzene | 16.538 | 134 | 4007 | 0.93 | ug/L | 96 |
| 107) 1,2,4-trimethylbenzene | 16.575 | 105 | 19436 | 0.89 | ug/L | 96 |
| 108) sec-butylbenzene | 16.737 | 105 | 21986 | 0.88 | ug/L | 98 |
| 109) 1,3-dichlorobenzene | 16.889 | 146 | 12834 | 0.92 | ug/L | 95 |
| 110) p-isopropyltoluene | 16.847 | 119 | 18298 | 0.89 | ug/L | 97 |
| 111) 1,4-dichlorobenzene | 16.957 | 146 | 13524 | 0.92 | ug/L | 94 |
| 112) 1,2,3-trimethylbenzene | 16.978 | 105 | 19590 | 0.91 | ug/L | 99 |
| 113) benzyl chloride | 17.057 | 91 | 13119 | 0.85 | ug/L | 98 |
| 114) 1,2-dichlorobenzene | 17.324 | 146 | 12049 | 0.92 | ug/L | 98 |
| 117) 1,3,5-trichlorobenzene | 18.242 | 180 | 6863 | 0.89 | ug/L | 93 |
| 118) 1,2,4-trichlorobenzene | 18.834 | 180 | 5604 | 0.87 | ug/L | 93 |
| 119) hexachlorobutadiene | 18.965 | 225 | 2420 | 0.83 | ug/L | 97 |
| 120) naphthalene | 19.091 | 128 | 16810 | 0.92 | ug/L | 96 |
| 121) 1,2,3-trichlorobenzene | 19.322 | 180 | 4952 | 0.94 | ug/L | 93 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120250.D
Acq On : 13 Aug 2022 9:35 pm
Operator : PrashanS
Sample : IC5341-1
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 18 15:43:27 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120251.D
Acq On : 13 Aug 2022 10:03 pm
Operator : PrashanS
Sample : IC5341-2
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 18 15:43:59 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 8.526 | 65 | 490337 | 500.00 | ug/L | | -0.01 |
| 5) pentafluorobenzene | 11.027 | 168 | 815071 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 11.919 | 114 | 1065168 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 14.823 | 117 | 1010108 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.931 | 152 | 463517 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 11.022 | 113 | 388057 | 50.23 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.46% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.452 | 65 | 410672 | 50.11 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.22% | | | | |
| 74) toluene-d8 (s) | 13.460 | 98 | 1239298 | 50.91 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.82% | | | | |
| 97) 4-bromofluorobenzene (s) | 15.867 | 95 | 473150 | 49.98 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.96% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) tertiary butyl alcohol | 8.668 | 59 | 14896 | 10.63 | ug/L | | 92 |
| 3) ethanol | 7.090 | 45 | 27947 | 206.56 | ug/L | | 99 |
| 4) 1,4-dioxane | 12.584 | 88 | 6626 | 53.55 | ug/L | | 99 |
| 6) chlorodifluoromethane | 4.584 | 51 | 18745 | 2.09 | ug/L | | 96 |
| 7) dichlorodifluoromethane | 4.552 | 85 | 20039 | 1.92 | ug/L | | 97 |
| 8) chloromethane | 5.029 | 50 | 17756 | 2.01 | ug/L | | 98 |
| 9) vinyl chloride | 5.291 | 62 | 17254 | 1.99 | ug/L | | 98 |
| 10) 1,3-butadiene | 5.391 | 54 | 17338 | 2.20 | ug/L | | 92 |
| 11) bromomethane | 6.073 | 94 | 11541 | 2.22 | ug/L | | 97 |
| 12) chloroethane | 6.293 | 64 | 9168 | 2.02 | ug/L | | 93 |
| 13) trichlorofluoromethane | 6.859 | 101 | 24769 | 2.02 | ug/L | | 97 |
| 14) ethyl ether | 7.394 | 74 | 7190 | 1.96 | ug/L | | 92 |
| 16) freon 113 | 7.840 | 151 | 12057 | 2.08 | ug/L | | 97 |
| 17) 1,1-dichloroethene | 7.834 | 96 | 13923 | 2.17 | ug/L | | 86 |
| 18) acetone | 7.855 | 58 | 5855 | 7.77 | ug/L | # | 77 |
| 19) acetonitrile | 8.290 | 41 | 28000 | 21.65 | ug/L | | 91 |
| 20) iodomethane | 8.117 | 142 | 8806 | 2.37 | ug/L | | 97 |
| 21) carbon disulfide | 8.280 | 76 | 37203 | 2.07 | ug/L | | 98 |
| 22) methylene chloride | 8.600 | 84 | 14781 | 2.14 | ug/L | | 97 |
| 23) methyl acetate | 8.437 | 43 | 11315 | 1.77 | ug/L | | 90 |
| 24) methyl tert butyl ether | 9.045 | 73 | 42532 | 2.13 | ug/L | | 96 |
| 25) trans-1,2-dichloroethene | 9.066 | 96 | 14949 | 2.11 | ug/L | | 96 |
| 26) di-isopropyl ether | 9.732 | 45 | 45169 | 2.13 | ug/L | | 86 |
| 27) 2-butanone | 10.419 | 72 | 8315 | 7.63 | ug/L | | 91 |
| 28) 1,1-dichloroethane | 9.664 | 63 | 25516 | 2.18 | ug/L | | 99 |
| 29) chloroprene | 9.816 | 53 | 18220 | 2.06 | ug/L | | 98 |
| 30) acrylonitrile | 8.967 | 53 | 5875 | 2.07 | ug/L | | 92 |
| 31) hexane | 9.491 | 56 | 8528 | 2.08 | ug/L | | 98 |
| 32) vinyl acetate | 9.696 | 86 | 2609 | 1.77 | ug/L | # | 82 |
| 33) ethyl tert-butyl ether | 10.225 | 59 | 43393 | 2.10 | ug/L | | 97 |
| 34) ethyl acetate | 10.482 | 70 | 1839 | 1.75 | ug/L | # | 6 |
| 35) 2,2-dichloropropane | 10.477 | 77 | 22666 | 2.16 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120251.D
Acq On : 13 Aug 2022 10:03 pm
Operator : PrashanS
Sample : IC5341-2
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 18 15:43:59 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 10.451 | 96 | 16798 | 2.14 | ug/L | | 88 |
| 37) methyl acrylate | 10.571 | 55 | 12502 | 1.72 | ug/L | | 95 |
| 38) propionitrile | 10.461 | 54 | 27476 | 20.77 | ug/L | | 97 |
| 39) bromochloromethane | 10.765 | 128 | 8575 | 2.15 | ug/L | | 85 |
| 40) tetrahydrofuran | 10.849 | 72 | 3495 | 2.43 | ug/L | | 84 |
| 41) chloroform | 10.828 | 85 | 19067 | 2.15 | ug/L | | 91 |
| 42) t-butyl formate | 10.907 | 59 | 12182 | 2.01 | ug/L | | 92 |
| 44) methacrylonitrile | 10.697 | 67 | 6611 | 2.00 | ug/L | | 79 |
| 45) 1,1,1-trichloroethane | 11.137 | 97 | 24224 | 2.14 | ug/L | | 93 |
| 46) cyclohexane | 11.253 | 84 | 17840 | 2.02 | ug/L | # | 81 |
| 47) 1,1-dichloropropene | 11.326 | 75 | 19372 | 2.19 | ug/L | | 96 |
| 48) isobutyl alcohol | 11.326 | 74 | 1312 | 20.02 | ug/L | | 68 |
| 49) carbon tetrachloride | 11.358 | 117 | 22969 | 2.14 | ug/L | | 95 |
| 50) tert amyl alcohol | 11.410 | 55 | 4796 | 10.19 | ug/L | | 86 |
| 53) n-butyl alcohol | 12.002 | 56 | 29773 | 91.73 | ug/L | | 97 |
| 54) 2,2,4-trimethylpentane | 11.656 | 57 | 33665 | 2.20 | ug/L | | 94 |
| 55) benzene | 11.578 | 78 | 53800 | 2.20 | ug/L | | 97 |
| 56) tert-amyl methyl ether | 11.635 | 87 | 9953 | 2.09 | ug/L | | 94 |
| 57) heptane | 11.819 | 71 | 7465 | 2.16 | ug/L | | 90 |
| 58) isopropyl acetate | 11.510 | 87 | 3543 | 2.03 | ug/L | # | 69 |
| 59) 1,2-dichloroethane | 11.541 | 62 | 21869 | 2.09 | ug/L | | 96 |
| 60) trichloroethene | 12.259 | 130 | 15513 | 2.10 | ug/L | | 99 |
| 61) ethyl acrylate | 12.270 | 55 | 19757 | 1.95 | ug/L | | 91 |
| 62) 2-nitropropane | 12.915 | 43 | 6548 | 2.02 | ug/L | | 88 |
| 63) 2-chloroethyl vinyl ether | 12.967 | 63 | 31644 | 9.31 | ug/L | | 99 |
| 64) methyl methacrylate | 12.516 | 100 | 3994 | 1.90 | ug/L | # | 78 |
| 65) 1,2-dichloropropane | 12.485 | 63 | 14106 | 2.13 | ug/L | | 99 |
| 66) dibromomethane | 12.605 | 93 | 11312 | 2.17 | ug/L | | 95 |
| 67) methylcyclohexane | 12.511 | 83 | 19374 | 2.15 | ug/L | | 97 |
| 68) bromodichloromethane | 12.726 | 83 | 20621 | 2.09 | ug/L | | 99 |
| 69) epichlorohydrin | 13.051 | 57 | 9651 | 10.40 | ug/L | | 98 |
| 70) cis-1,3-dichloropropene | 13.172 | 75 | 22233 | 2.08 | ug/L | | 97 |
| 71) 4-methyl-2-pentanone | 13.261 | 58 | 27171 | 8.18 | ug/L | | 97 |
| 72) 3-methyl-1-butanol | 13.261 | 70 | 9680 | 32.20 | ug/L | # | 70 |
| 75) toluene | 13.533 | 92 | 33280 | 2.14 | ug/L | | 97 |
| 76) trans-1,3-dichloropropene | 13.670 | 75 | 19932 | 2.04 | ug/L | | 95 |
| 77) ethyl methacrylate | 13.701 | 69 | 17959 | 2.05 | ug/L | | 95 |
| 78) 1,1,2-trichloroethane | 13.859 | 83 | 11130 | 2.14 | ug/L | | 89 |
| 79) tetrachloroethene | 14.079 | 164 | 13709 | 2.18 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 14.026 | 76 | 21250 | 2.16 | ug/L | # | 76 |
| 81) 2-hexanone | 14.037 | 58 | 26646 | 8.12 | ug/L | | 98 |
| 82) butyl acetate | 14.131 | 56 | 10131 | 2.21 | ug/L | | 88 |
| 83) dibromochloromethane | 14.262 | 129 | 17797 | 2.09 | ug/L | | 99 |
| 84) 1,2-dibromoethane | 14.414 | 107 | 15000 | 2.13 | ug/L | | 97 |
| 85) n-butyl ether | 14.818 | 57 | 52148 | 2.07 | ug/L | | 59 |
| 86) chlorobenzene | 14.855 | 112 | 39128 | 2.16 | ug/L | | 86 |
| 87) 1,1,1,2-tetrachloroethane | 14.897 | 131 | 15718 | 2.17 | ug/L | | 96 |
| 88) ethylbenzene | 14.923 | 91 | 60941 | 2.11 | ug/L | | 99 |
| 89) m,p-xylene | 15.022 | 106 | 47049 | 4.21 | ug/L | | 94 |
| 90) o-xylene | 15.395 | 106 | 23091 | 2.06 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120251.D
Acq On : 13 Aug 2022 10:03 pm
Operator : PrashanS
Sample : IC5341-2
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 18 15:43:59 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

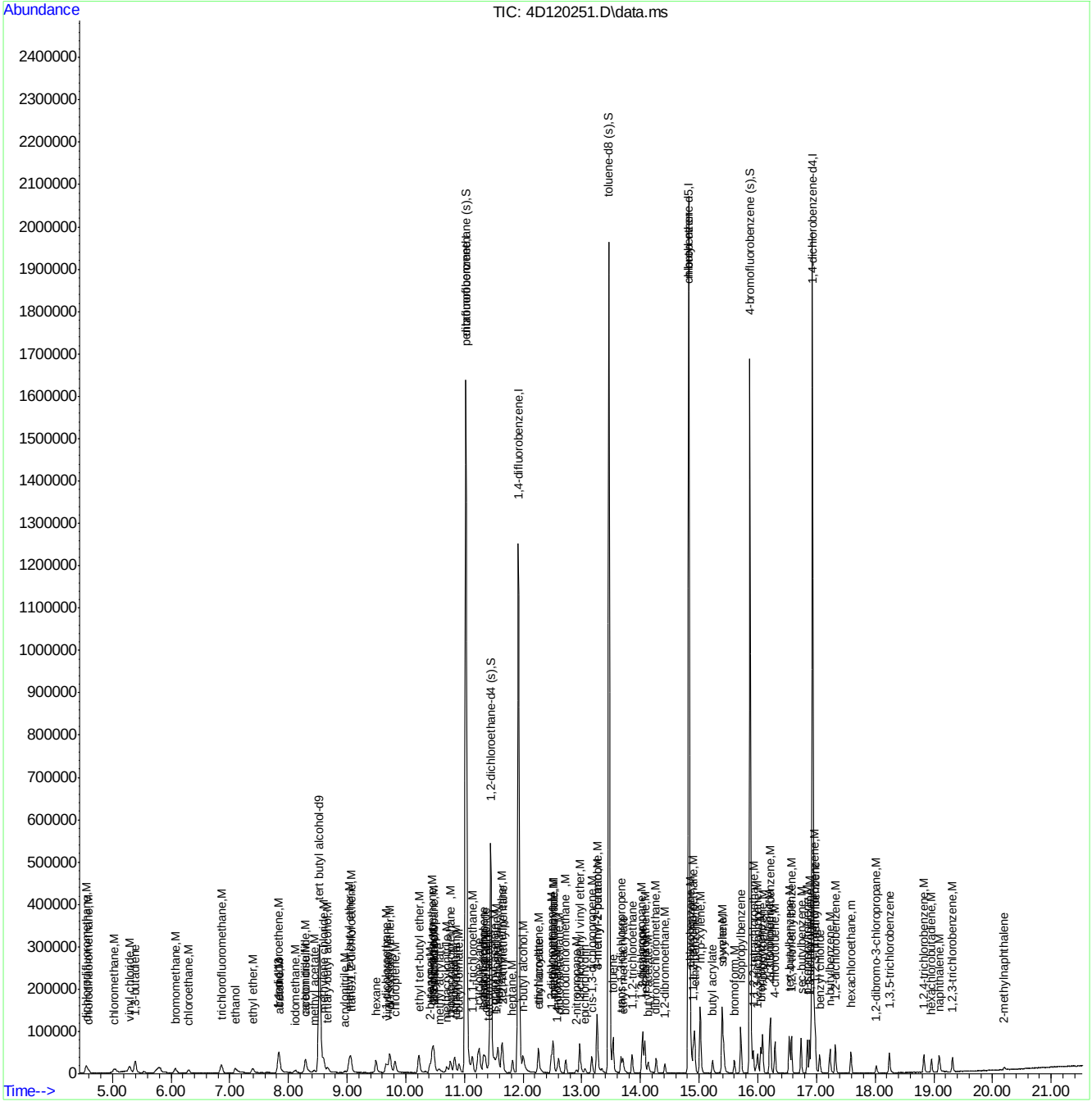
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 91) | styrene | 15.400 | 104 | 37133 | 1.97 | ug/L | 97 |
| 92) | bromoform | 15.599 | 173 | 13088 | 2.00 | ug/L | 95 |
| 93) | butyl acrylate | 15.232 | 55 | 23981 | 1.89 | ug/L | 96 |
| 94) | isopropylbenzene | 15.709 | 105 | 58990 | 2.12 | ug/L | 98 |
| 98) | bromobenzene | 16.050 | 156 | 17944 | 2.10 | ug/L | 85 |
| 99) | 1,1,2,2-tetrachloroethane | 15.924 | 83 | 19708 | 2.11 | ug/L | 98 |
| 101) | 1,2,3-trichloropropane | 15.998 | 110 | 6003 | 2.14 | ug/L | 99 |
| 102) | n-propylbenzene | 16.082 | 91 | 64760 | 2.08 | ug/L | 100 |
| 103) | 2-chlorotoluene | 16.202 | 126 | 15165 | 2.12 | ug/L | 97 |
| 104) | 4-chlorotoluene | 16.297 | 91 | 42235 | 2.07 | ug/L | 95 |
| 105) | 1,3,5-trimethylbenzene | 16.218 | 105 | 45786 | 2.08 | ug/L | 96 |
| 106) | tert-butylbenzene | 16.538 | 134 | 8870 | 2.04 | ug/L | 97 |
| 107) | 1,2,4-trimethylbenzene | 16.574 | 105 | 45321 | 2.04 | ug/L | 98 |
| 108) | sec-butylbenzene | 16.737 | 105 | 52045 | 2.06 | ug/L | 97 |
| 109) | 1,3-dichlorobenzene | 16.884 | 146 | 29323 | 2.07 | ug/L | 97 |
| 110) | p-isopropyltoluene | 16.842 | 119 | 43224 | 2.08 | ug/L | 99 |
| 111) | 1,4-dichlorobenzene | 16.957 | 146 | 31687 | 2.12 | ug/L | 95 |
| 112) | 1,2,3-trimethylbenzene | 16.978 | 105 | 45190 | 2.07 | ug/L | 99 |
| 113) | benzyl chloride | 17.052 | 91 | 30150 | 1.92 | ug/L | 99 |
| 114) | 1,2-dichlorobenzene | 17.319 | 146 | 27853 | 2.09 | ug/L | 99 |
| 115) | n-butylbenzene | 17.225 | 92 | 18378 | 1.92 | ug/L | 95 |
| 116) | 1,2-dibromo-3-chloropr... | 18.016 | 157 | 4526 | 1.78 | ug/L | 94 |
| 117) | 1,3,5-trichlorobenzene | 18.242 | 180 | 15978 | 2.04 | ug/L | 97 |
| 118) | 1,2,4-trichlorobenzene | 18.829 | 180 | 12552 | 1.93 | ug/L | 96 |
| 119) | hexachlorobutadiene | 18.960 | 225 | 6093 | 2.07 | ug/L | 90 |
| 120) | naphthalene | 19.086 | 128 | 37756 | 2.04 | ug/L | 97 |
| 121) | 1,2,3-trichlorobenzene | 19.317 | 180 | 10703 | 2.01 | ug/L | 96 |
| 122) | hexachloroethane | 17.586 | 201 | 7467 | 1.80 | ug/L | 95 |
| 123) | 2-methylnaphthalene | 20.197 | 142 | 4930 | 0.92 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120251.D
Acq On : 13 Aug 2022 10:03 pm
Operator : PrashanS
Sample : IC5341-2
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 18 15:43:59 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120252.D
Acq On : 13 Aug 2022 10:31 pm
Operator : PrashanS
Sample : IC5341-4
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 18 08:45:49 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) tert butyl alcohol-d9 | 8.526 | 65 | 479446 | 500.00 | ug/L | | -0.01 |
| 5) pentafluorobenzene | 11.027 | 168 | 795861 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 11.919 | 114 | 1040858 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 14.823 | 117 | 981035 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.931 | 152 | 451126 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 11.022 | 113 | 378542 | 50.18 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.36% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.447 | 65 | 404728 | 50.54 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.08% | | | | |
| 74) toluene-d8 (s) | 13.460 | 98 | 1205973 | 51.01 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.02% | | | | |
| 97) 4-bromofluorobenzene (s) | 15.867 | 95 | 463091 | 50.26 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.52% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) tertiary butyl alcohol | 8.663 | 59 | 27412 | 20.00 | ug/L | | 99 |
| 3) ethanol | 7.090 | 45 | 52669 | 398.13 | ug/L | | 98 |
| 4) 1,4-dioxane | 12.584 | 88 | 12321 | 101.83 | ug/L | | 94 |
| 6) chlorodifluoromethane | 4.584 | 51 | 35406 | 4.05 | ug/L | | 97 |
| 7) dichlorodifluoromethane | 4.547 | 85 | 41231 | 4.05 | ug/L | | 99 |
| 8) chloromethane | 5.035 | 50 | 34897 | 4.06 | ug/L | | 97 |
| 9) vinyl chloride | 5.291 | 62 | 33794 | 4.00 | ug/L | | 95 |
| 10) 1,3-butadiene | 5.391 | 54 | 32352 | 4.20 | ug/L | | 98 |
| 11) bromomethane | 6.067 | 94 | 20994 | 4.14 | ug/L | | 91 |
| 12) chloroethane | 6.298 | 64 | 18273 | 4.12 | ug/L | | 98 |
| 13) trichlorofluoromethane | 6.859 | 101 | 49865 | 4.17 | ug/L | | 98 |
| 14) ethyl ether | 7.383 | 74 | 14257 | 3.98 | ug/L | | 95 |
| 15) acrolein | 7.619 | 56 | 5213 | 3.46 | ug/L | | 90 |
| 16) freon 113 | 7.834 | 151 | 23537 | 4.16 | ug/L | | 96 |
| 17) 1,1-dichloroethene | 7.840 | 96 | 24706 | 3.94 | ug/L | | 97 |
| 18) acetone | 7.850 | 58 | 11257 | 15.30 | ug/L | | 96 |
| 19) acetonitrile | 8.280 | 41 | 50595 | 40.06 | ug/L | | 94 |
| 20) iodomethane | 8.123 | 142 | 23553 | 3.72 | ug/L | | 96 |
| 21) carbon disulfide | 8.285 | 76 | 69916 | 3.98 | ug/L | | 99 |
| 22) methylene chloride | 8.600 | 84 | 27403 | 4.07 | ug/L | | 99 |
| 23) methyl acetate | 8.427 | 43 | 23160 | 3.72 | ug/L | | 95 |
| 24) methyl tert butyl ether | 9.040 | 73 | 79804 | 4.09 | ug/L | | 99 |
| 25) trans-1,2-dichloroethene | 9.066 | 96 | 27109 | 3.92 | ug/L | | 93 |
| 26) di-isopropyl ether | 9.727 | 45 | 84908 | 4.10 | ug/L | | 90 |
| 27) 2-butanone | 10.409 | 72 | 16946 | 15.93 | ug/L | | 92 |
| 28) 1,1-dichloroethane | 9.659 | 63 | 47829 | 4.18 | ug/L | | 95 |
| 29) chloroprene | 9.816 | 53 | 36062 | 4.18 | ug/L | | 99 |
| 30) acrylonitrile | 8.951 | 53 | 9878 | 3.56 | ug/L | | 97 |
| 31) hexane | 9.496 | 56 | 16468 | 4.12 | ug/L | | 91 |
| 32) vinyl acetate | 9.690 | 86 | 5199 | 3.62 | ug/L | # | 79 |
| 33) ethyl tert-butyl ether | 10.225 | 59 | 81916 | 4.05 | ug/L | | 98 |
| 34) ethyl acetate | 10.472 | 70 | 3704 | 3.61 | ug/L | # | 69 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120252.D
Acq On : 13 Aug 2022 10:31 pm
Operator : PrashanS
Sample : IC5341-4
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 18 08:45:49 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 10.477 | 77 | 41712 | 4.07 | ug/L | | 98 |
| 36) cis-1,2-dichloroethene | 10.451 | 96 | 30521 | 3.99 | ug/L | | 93 |
| 37) methyl acrylate | 10.555 | 55 | 29988 | 4.22 | ug/L | | 95 |
| 38) propionitrile | 10.456 | 54 | 53532 | 41.45 | ug/L | | 97 |
| 39) bromochloromethane | 10.765 | 128 | 16151 | 4.14 | ug/L | | 88 |
| 40) tetrahydrofuran | 10.844 | 72 | 5691 | 4.05 | ug/L | | 98 |
| 41) chloroform | 10.828 | 85 | 34554 | 3.99 | ug/L | | 98 |
| 42) t-butyl formate | 10.907 | 59 | 23080 | 3.90 | ug/L | | 95 |
| 44) methacrylonitrile | 10.692 | 67 | 12993 | 4.03 | ug/L | | 88 |
| 45) 1,1,1-trichloroethane | 11.132 | 97 | 45936 | 4.15 | ug/L | | 99 |
| 46) cyclohexane | 11.253 | 84 | 36136 | 4.20 | ug/L | | 89 |
| 47) 1,1-dichloropropene | 11.326 | 75 | 36184 | 4.18 | ug/L | | 94 |
| 48) isobutyl alcohol | 11.331 | 74 | 2814 | 43.97 | ug/L | | 34 |
| 49) carbon tetrachloride | 11.358 | 117 | 43192 | 4.11 | ug/L | | 99 |
| 50) tert amyl alcohol | 11.410 | 55 | 9541 | 20.76 | ug/L | # | 79 |
| 53) n-butyl alcohol | 11.997 | 56 | 58403 | 184.13 | ug/L | | 97 |
| 54) 2,2,4-trimethylpentane | 11.651 | 57 | 62315 | 4.17 | ug/L | | 96 |
| 55) benzene | 11.573 | 78 | 99943 | 4.18 | ug/L | | 99 |
| 56) tert-amyl methyl ether | 11.635 | 87 | 19227 | 4.14 | ug/L | | 94 |
| 57) heptane | 11.819 | 71 | 14042 | 4.16 | ug/L | | 99 |
| 58) isopropyl acetate | 11.504 | 87 | 6729 | 3.94 | ug/L | # | 86 |
| 59) 1,2-dichloroethane | 11.541 | 62 | 39608 | 3.87 | ug/L | | 92 |
| 60) trichloroethene | 12.254 | 130 | 30026 | 4.15 | ug/L | | 98 |
| 61) ethyl acrylate | 12.259 | 55 | 38894 | 3.93 | ug/L | | 88 |
| 62) 2-nitropropane | 12.910 | 43 | 12201 | 3.85 | ug/L | | 94 |
| 63) 2-chloroethyl vinyl ether | 12.962 | 63 | 61356 | 18.48 | ug/L | | 97 |
| 64) methyl methacrylate | 12.506 | 100 | 7337 | 3.57 | ug/L | # | 77 |
| 65) 1,2-dichloropropane | 12.480 | 63 | 27237 | 4.21 | ug/L | | 99 |
| 66) dibromomethane | 12.605 | 93 | 20333 | 3.99 | ug/L | | 96 |
| 67) methylcyclohexane | 12.511 | 83 | 36939 | 4.20 | ug/L | | 96 |
| 68) bromodichloromethane | 12.726 | 83 | 38842 | 4.02 | ug/L | | 98 |
| 69) epichlorohydrin | 13.051 | 57 | 17932 | 19.78 | ug/L | | 96 |
| 70) cis-1,3-dichloropropene | 13.166 | 75 | 42706 | 4.09 | ug/L | | 98 |
| 71) 4-methyl-2-pentanone | 13.256 | 58 | 51984 | 16.02 | ug/L | | 98 |
| 72) 3-methyl-1-butanol | 13.250 | 70 | 21274 | 72.42 | ug/L | | 89 |
| 75) toluene | 13.533 | 92 | 62526 | 4.14 | ug/L | | 95 |
| 76) trans-1,3-dichloropropene | 13.665 | 75 | 38308 | 4.04 | ug/L | | 99 |
| 77) ethyl methacrylate | 13.696 | 69 | 33862 | 3.99 | ug/L | | 98 |
| 78) 1,1,2-trichloroethane | 13.859 | 83 | 20760 | 4.10 | ug/L | | 93 |
| 79) tetrachloroethene | 14.079 | 164 | 26629 | 4.36 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 14.026 | 76 | 39640 | 4.14 | ug/L | | 89 |
| 81) 2-hexanone | 14.037 | 58 | 51806 | 16.25 | ug/L | | 96 |
| 82) butyl acetate | 14.126 | 56 | 18561 | 4.17 | ug/L | | 90 |
| 83) dibromochloromethane | 14.268 | 129 | 33846 | 4.09 | ug/L | | 95 |
| 84) 1,2-dibromoethane | 14.414 | 107 | 28520 | 4.17 | ug/L | | 98 |
| 85) n-butyl ether | 14.818 | 57 | 99913 | 4.09 | ug/L | | 80 |
| 86) chlorobenzene | 14.855 | 112 | 72218 | 4.11 | ug/L | | 95 |
| 87) 1,1,1,2-tetrachloroethane | 14.897 | 131 | 28938 | 4.11 | ug/L | | 98 |
| 88) ethylbenzene | 14.923 | 91 | 112830 | 4.02 | ug/L | | 99 |
| 89) m,p-xylene | 15.017 | 106 | 87731 | 8.08 | ug/L | | 94 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120252.D
Acq On : 13 Aug 2022 10:31 pm
Operator : PrashanS
Sample : IC5341-4
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 18 08:45:49 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

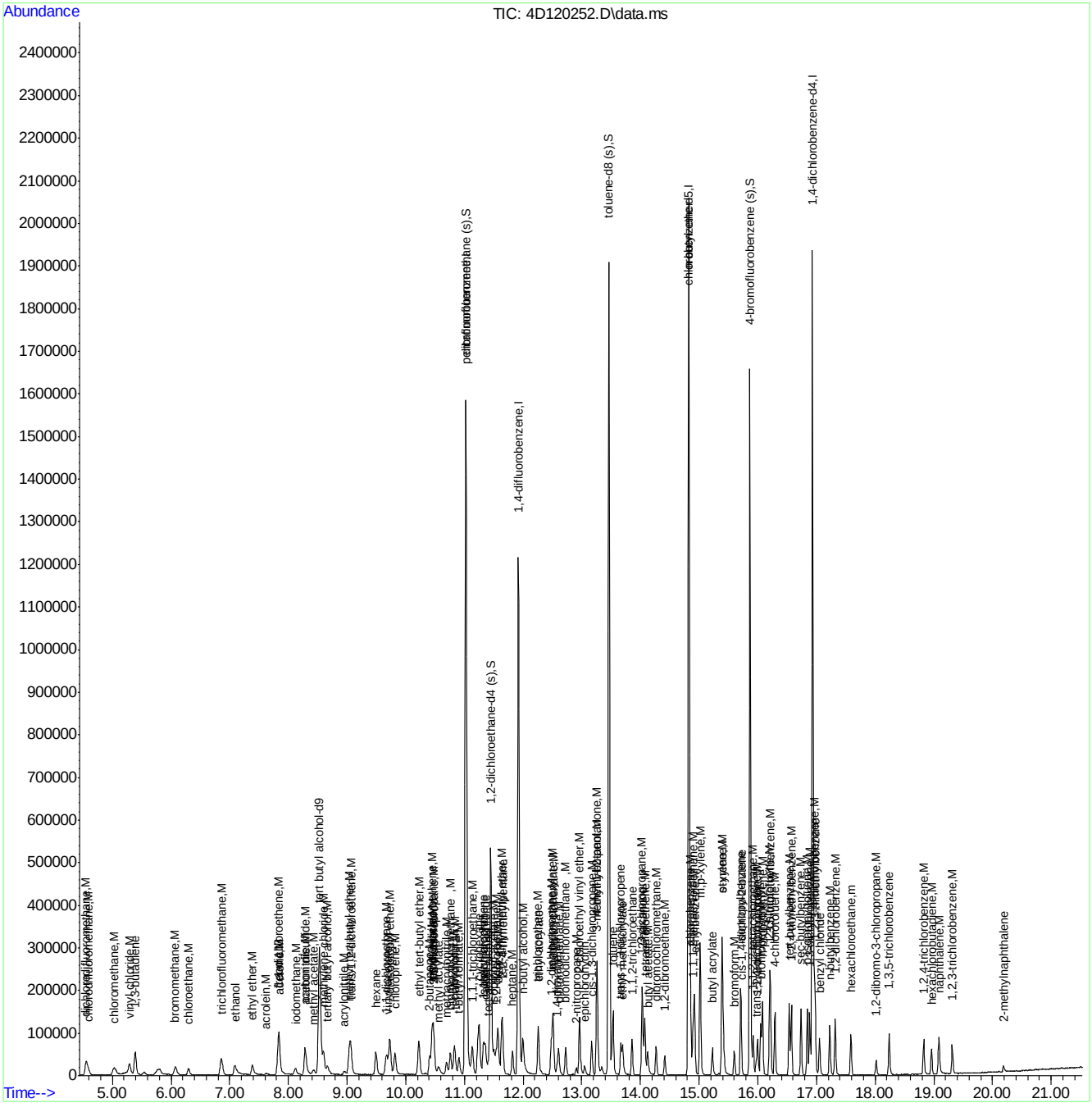
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 90) | o-xylene | 15.395 | 106 | 44130 | 4.06 | ug/L | 100 |
| 91) | styrene | 15.395 | 104 | 71628 | 3.91 | ug/L | 94 |
| 92) | bromoform | 15.599 | 173 | 24777 | 3.89 | ug/L | 97 |
| 93) | butyl acrylate | 15.227 | 55 | 46700 | 3.78 | ug/L | 96 |
| 94) | isopropylbenzene | 15.709 | 105 | 111916 | 4.14 | ug/L | 98 |
| 95) | cis-1,4-dichloro-2-butene | 15.720 | 88 | 7066 | 5.09 | ug/L | 95 |
| 98) | bromobenzene | 16.050 | 156 | 33396 | 4.02 | ug/L | 91 |
| 99) | 1,1,2,2-tetrachloroethane | 15.919 | 83 | 37046 | 4.08 | ug/L | 96 |
| 100) | trans-1,4-dichloro-2-b... | 15.971 | 53 | 5543 | 3.16 | ug/L | 97 |
| 101) | 1,2,3-trichloropropane | 15.998 | 110 | 11247 | 4.12 | ug/L | 98 |
| 102) | n-propylbenzene | 16.082 | 91 | 122206 | 4.03 | ug/L | 100 |
| 103) | 2-chlorotoluene | 16.202 | 126 | 28222 | 4.05 | ug/L | 99 |
| 104) | 4-chlorotoluene | 16.291 | 91 | 80791 | 4.07 | ug/L | 98 |
| 105) | 1,3,5-trimethylbenzene | 16.218 | 105 | 85665 | 3.99 | ug/L | 98 |
| 106) | tert-butylbenzene | 16.538 | 134 | 16840 | 3.97 | ug/L | 92 |
| 107) | 1,2,4-trimethylbenzene | 16.574 | 105 | 85740 | 3.97 | ug/L | 97 |
| 108) | sec-butylbenzene | 16.732 | 105 | 97810 | 3.98 | ug/L | 98 |
| 109) | 1,3-dichlorobenzene | 16.884 | 146 | 56201 | 4.08 | ug/L | 96 |
| 110) | p-isopropyltoluene | 16.842 | 119 | 82113 | 4.06 | ug/L | 98 |
| 111) | 1,4-dichlorobenzene | 16.957 | 146 | 58334 | 4.02 | ug/L | 97 |
| 112) | 1,2,3-trimethylbenzene | 16.973 | 105 | 85187 | 4.02 | ug/L | 96 |
| 113) | benzyl chloride | 17.052 | 91 | 56878 | 3.72 | ug/L | 99 |
| 114) | 1,2-dichlorobenzene | 17.319 | 146 | 53395 | 4.12 | ug/L | 99 |
| 115) | n-butylbenzene | 17.225 | 92 | 35278 | 3.78 | ug/L | 97 |
| 116) | 1,2-dibromo-3-chloropr... | 18.016 | 157 | 9187 | 3.71 | ug/L | 97 |
| 117) | 1,3,5-trichlorobenzene | 18.236 | 180 | 30367 | 3.98 | ug/L | 98 |
| 118) | 1,2,4-trichlorobenzene | 18.829 | 180 | 24246 | 3.83 | ug/L | 96 |
| 119) | hexachlorobutadiene | 18.965 | 225 | 11509 | 4.02 | ug/L | 99 |
| 120) | naphthalene | 19.086 | 128 | 71609 | 3.98 | ug/L | 99 |
| 121) | 1,2,3-trichlorobenzene | 19.317 | 180 | 20275 | 3.91 | ug/L | 98 |
| 122) | hexachloroethane | 17.592 | 201 | 14241 | 3.54 | ug/L | 92 |
| 123) | 2-methylnaphthalene | 20.187 | 142 | 9529 | 1.84 | ug/L | 95 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120252.D
Acq On : 13 Aug 2022 10:31 pm
Operator : PrashanS
Sample : IC5341-4
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 18 08:45:49 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120253.D
Acq On : 13 Aug 2022 11:00 pm
Operator : PrashanS
Sample : IC5341-8
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 18 08:45:55 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 8.526 | 65 | 500608 | 500.00 | ug/L | -0.01 |
| 5) pentafluorobenzene | 11.022 | 168 | 813083 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 11.919 | 114 | 1060496 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 14.823 | 117 | 1014992 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.931 | 152 | 464543 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 11.022 | 113 | 386617 | 50.17 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.34% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.447 | 65 | 411824 | 50.47 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.94% | | | |
| 74) toluene-d8 (s) | 13.460 | 98 | 1234047 | 50.45 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.90% | | | |
| 97) 4-bromofluorobenzene (s) | 15.867 | 95 | 468680 | 49.40 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.80% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) tertiary butyl alcohol | 8.668 | 59 | 56634 | 39.58 | ug/L | 99 |
| 3) ethanol | 7.074 | 45 | 113023 | 818.23 | ug/L | 97 |
| 4) 1,4-dioxane | 12.579 | 88 | 26012 | 205.90 | ug/L | 98 |
| 6) chlorodifluoromethane | 4.584 | 51 | 69133 | 7.73 | ug/L | 99 |
| 7) dichlorodifluoromethane | 4.547 | 85 | 82523 | 7.94 | ug/L | 97 |
| 8) chloromethane | 5.029 | 50 | 68729 | 7.82 | ug/L | 96 |
| 9) vinyl chloride | 5.286 | 62 | 68411 | 7.93 | ug/L | 98 |
| 10) 1,3-butadiene | 5.396 | 54 | 63460 | 8.07 | ug/L | 97 |
| 11) bromomethane | 6.073 | 94 | 39437 | 7.62 | ug/L | 95 |
| 12) chloroethane | 6.298 | 64 | 36159 | 7.97 | ug/L | 96 |
| 13) trichlorofluoromethane | 6.859 | 101 | 99483 | 8.15 | ug/L | 98 |
| 14) ethyl ether | 7.383 | 74 | 29429 | 8.04 | ug/L | 93 |
| 15) acrolein | 7.604 | 56 | 11830 | 7.69 | ug/L | 92 |
| 16) freon 113 | 7.834 | 151 | 45647 | 7.89 | ug/L | 96 |
| 17) 1,1-dichloroethene | 7.834 | 96 | 49178 | 7.67 | ug/L | 98 |
| 18) acetone | 7.834 | 58 | 23538 | 31.31 | ug/L | 97 |
| 19) acetonitrile | 8.275 | 41 | 101333 | 78.53 | ug/L | 97 |
| 20) iodomethane | 8.117 | 142 | 62053 | 7.08 | ug/L | 99 |
| 21) carbon disulfide | 8.285 | 76 | 139632 | 7.77 | ug/L | 99 |
| 22) methylene chloride | 8.600 | 84 | 54294 | 7.89 | ug/L | 98 |
| 23) methyl acetate | 8.411 | 43 | 48641 | 7.64 | ug/L | 99 |
| 24) methyl tert butyl ether | 9.040 | 73 | 159378 | 7.99 | ug/L | 99 |
| 25) trans-1,2-dichloroethene | 9.061 | 96 | 53007 | 7.51 | ug/L | 98 |
| 26) di-isopropyl ether | 9.727 | 45 | 170806 | 8.07 | ug/L | 95 |
| 27) 2-butanone | 10.403 | 72 | 34978 | 32.18 | ug/L | 99 |
| 28) 1,1-dichloroethane | 9.664 | 63 | 94308 | 8.07 | ug/L | 99 |
| 29) chloroprene | 9.811 | 53 | 72239 | 8.19 | ug/L | 98 |
| 30) acrylonitrile | 8.935 | 53 | 19504 | 6.88 | ug/L | 91 |
| 31) hexane | 9.491 | 56 | 32282 | 7.91 | ug/L | 97 |
| 32) vinyl acetate | 9.675 | 86 | 11047 | 7.52 | ug/L | 95 |
| 33) ethyl tert-butyl ether | 10.225 | 59 | 164682 | 7.98 | ug/L | 100 |
| 34) ethyl acetate | 10.466 | 70 | 8292 | 7.90 | ug/L # | 70 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120253.D
Acq On : 13 Aug 2022 11:00 pm
Operator : PrashanS
Sample : IC5341-8
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 18 08:45:55 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 10.482 | 77 | 81983 | 7.83 | ug/L | | 95 |
| 36) cis-1,2-dichloroethene | 10.445 | 96 | 59429 | 7.60 | ug/L | | 93 |
| 37) methyl acrylate | 10.545 | 55 | 59036 | 8.14 | ug/L | | 99 |
| 38) propionitrile | 10.445 | 54 | 106648 | 80.83 | ug/L | | 98 |
| 39) bromochloromethane | 10.755 | 128 | 32733 | 8.21 | ug/L | | 95 |
| 40) tetrahydrofuran | 10.844 | 72 | 11196 | 7.80 | ug/L | | 91 |
| 41) chloroform | 10.828 | 85 | 66576 | 7.52 | ug/L | | 98 |
| 42) t-butyl formate | 10.902 | 59 | 47224 | 7.80 | ug/L | | 98 |
| 44) methacrylonitrile | 10.687 | 67 | 25797 | 7.83 | ug/L | | 93 |
| 45) 1,1,1-trichloroethane | 11.137 | 97 | 88502 | 7.83 | ug/L | | 96 |
| 46) cyclohexane | 11.248 | 84 | 71144 | 8.09 | ug/L | # | 87 |
| 47) 1,1-dichloropropene | 11.321 | 75 | 69922 | 7.91 | ug/L | | 99 |
| 48) isobutyl alcohol | 11.326 | 74 | 5285 | 80.82 | ug/L | | 89 |
| 49) carbon tetrachloride | 11.358 | 117 | 86303 | 8.04 | ug/L | | 97 |
| 50) tert amyl alcohol | 11.405 | 55 | 18156 | 38.67 | ug/L | | 97 |
| 53) n-butyl alcohol | 11.992 | 56 | 123606 | 382.49 | ug/L | | 97 |
| 54) 2,2,4-trimethylpentane | 11.651 | 57 | 122306 | 8.02 | ug/L | | 97 |
| 55) benzene | 11.573 | 78 | 197508 | 8.10 | ug/L | | 99 |
| 56) tert-amyl methyl ether | 11.641 | 87 | 38254 | 8.09 | ug/L | | 96 |
| 57) heptane | 11.814 | 71 | 26774 | 7.79 | ug/L | | 91 |
| 58) isopropyl acetate | 11.499 | 87 | 14097 | 8.10 | ug/L | # | 88 |
| 59) 1,2-dichloroethane | 11.541 | 62 | 78654 | 7.53 | ug/L | | 98 |
| 60) trichloroethene | 12.254 | 130 | 58700 | 7.97 | ug/L | | 97 |
| 61) ethyl acrylate | 12.254 | 55 | 79163 | 7.86 | ug/L | | 94 |
| 62) 2-nitropropane | 12.904 | 43 | 23271 | 7.21 | ug/L | | 94 |
| 63) 2-chloroethyl vinyl ether | 12.962 | 63 | 129880 | 38.39 | ug/L | | 100 |
| 64) methyl methacrylate | 12.501 | 100 | 16027 | 7.65 | ug/L | # | 85 |
| 65) 1,2-dichloropropane | 12.480 | 63 | 53051 | 8.05 | ug/L | | 97 |
| 66) dibromomethane | 12.600 | 93 | 40628 | 7.83 | ug/L | | 99 |
| 67) methylcyclohexane | 12.511 | 83 | 73271 | 8.18 | ug/L | | 98 |
| 68) bromodichloromethane | 12.726 | 83 | 76589 | 7.79 | ug/L | | 99 |
| 69) epichlorohydrin | 13.046 | 57 | 35842 | 38.80 | ug/L | | 96 |
| 70) cis-1,3-dichloropropene | 13.167 | 75 | 85463 | 8.04 | ug/L | | 99 |
| 71) 4-methyl-2-pentanone | 13.256 | 58 | 105696 | 31.97 | ug/L | | 98 |
| 72) 3-methyl-1-butanol | 13.245 | 70 | 43934 | 146.78 | ug/L | | 96 |
| 75) toluene | 13.528 | 92 | 121831 | 7.80 | ug/L | | 99 |
| 76) trans-1,3-dichloropropene | 13.665 | 75 | 78558 | 8.01 | ug/L | | 99 |
| 77) ethyl methacrylate | 13.691 | 69 | 71246 | 8.11 | ug/L | | 98 |
| 78) 1,1,2-trichloroethane | 13.853 | 83 | 42320 | 8.08 | ug/L | | 98 |
| 79) tetrachloroethene | 14.074 | 164 | 50386 | 7.98 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 14.026 | 76 | 80390 | 8.12 | ug/L | | 96 |
| 81) 2-hexanone | 14.032 | 58 | 105165 | 31.88 | ug/L | | 100 |
| 82) butyl acetate | 14.116 | 56 | 37936 | 8.24 | ug/L | | 98 |
| 83) dibromochloromethane | 14.262 | 129 | 67447 | 7.87 | ug/L | | 99 |
| 84) 1,2-dibromoethane | 14.409 | 107 | 56551 | 8.00 | ug/L | | 99 |
| 85) n-butyl ether | 14.813 | 57 | 202298 | 8.01 | ug/L | | 96 |
| 86) chlorobenzene | 14.855 | 112 | 144615 | 7.96 | ug/L | | 97 |
| 87) 1,1,1,2-tetrachloroethane | 14.897 | 131 | 58890 | 8.08 | ug/L | | 99 |
| 88) ethylbenzene | 14.918 | 91 | 231944 | 8.00 | ug/L | | 99 |
| 89) m,p-xylene | 15.017 | 106 | 178443 | 15.89 | ug/L | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120253.D
Acq On : 13 Aug 2022 11:00 pm
Operator : PrashanS
Sample : IC5341-8
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 18 08:45:55 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

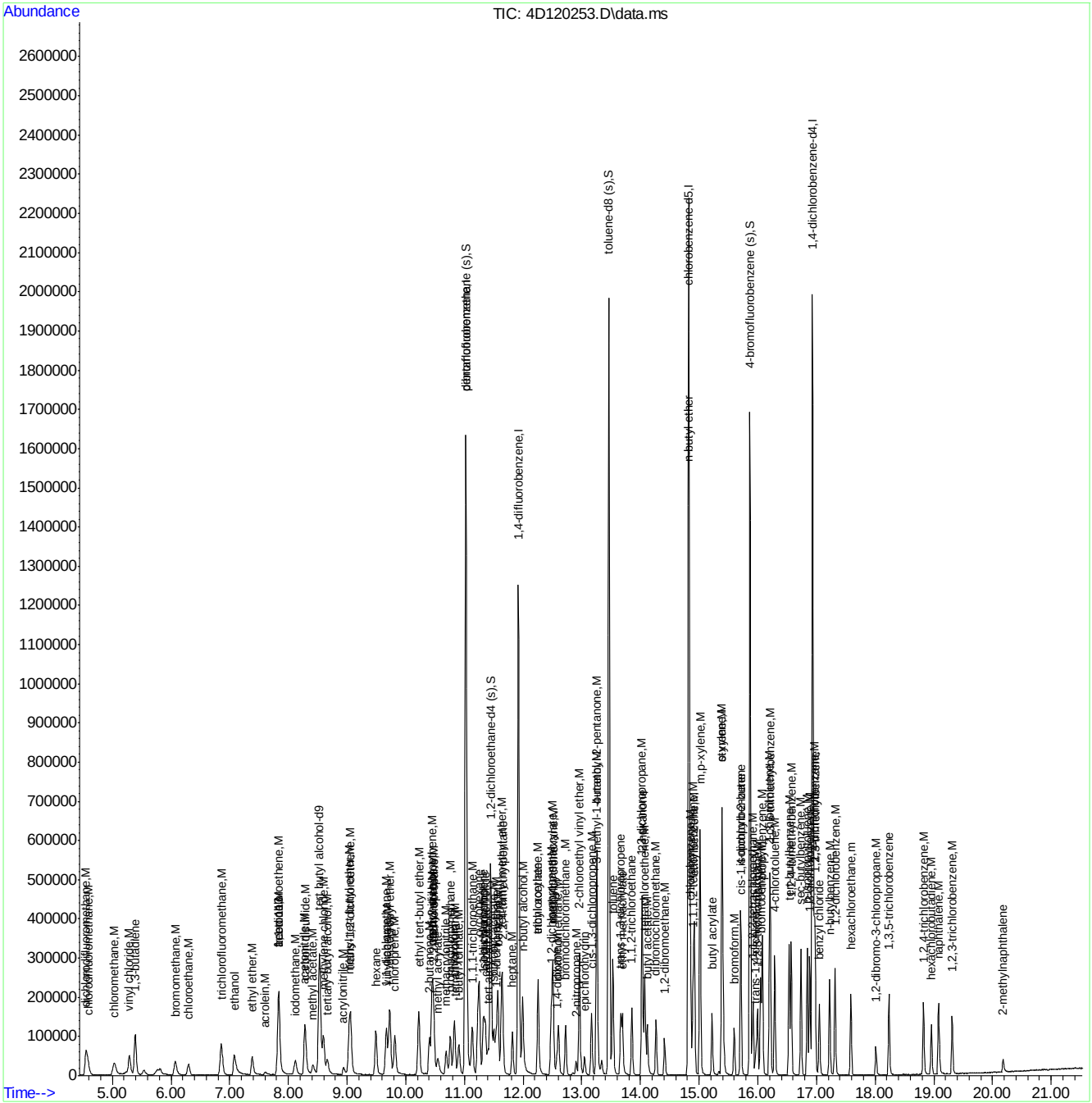
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 90) | o-xylene | 15.390 | 106 | 89132 | 7.92 | ug/L | 96 |
| 91) | styrene | 15.390 | 104 | 148797 | 7.85 | ug/L | 97 |
| 92) | bromoform | 15.594 | 173 | 51315 | 7.79 | ug/L | 99 |
| 93) | butyl acrylate | 15.222 | 55 | 99498 | 7.78 | ug/L | 100 |
| 94) | isopropylbenzene | 15.709 | 105 | 225296 | 8.06 | ug/L | 99 |
| 95) | cis-1,4-dichloro-2-butene | 15.715 | 88 | 14900 | 7.68 | ug/L | 87 |
| 98) | bromobenzene | 16.050 | 156 | 68220 | 7.98 | ug/L | 87 |
| 99) | 1,1,2,2-tetrachloroethane | 15.919 | 83 | 74502 | 7.97 | ug/L | 99 |
| 100) | trans-1,4-dichloro-2-b... | 15.966 | 53 | 11729 | 6.50 | ug/L | 88 |
| 101) | 1,2,3-trichloropropane | 15.998 | 110 | 22223 | 7.90 | ug/L | 99 |
| 102) | n-propylbenzene | 16.076 | 91 | 249684 | 7.99 | ug/L | 99 |
| 103) | 2-chlorotoluene | 16.202 | 126 | 57848 | 8.05 | ug/L | 99 |
| 104) | 4-chlorotoluene | 16.291 | 91 | 159565 | 7.81 | ug/L | 97 |
| 105) | 1,3,5-trimethylbenzene | 16.213 | 105 | 174577 | 7.90 | ug/L | 99 |
| 106) | tert-butylbenzene | 16.538 | 134 | 34769 | 7.96 | ug/L | 98 |
| 107) | 1,2,4-trimethylbenzene | 16.569 | 105 | 173976 | 7.83 | ug/L | 99 |
| 108) | sec-butylbenzene | 16.732 | 105 | 201484 | 7.97 | ug/L | 99 |
| 109) | 1,3-dichlorobenzene | 16.884 | 146 | 114227 | 8.06 | ug/L | 99 |
| 110) | p-isopropyltoluene | 16.842 | 119 | 166074 | 7.97 | ug/L | 99 |
| 111) | 1,4-dichlorobenzene | 16.957 | 146 | 116710 | 7.81 | ug/L | 99 |
| 112) | 1,2,3-trimethylbenzene | 16.973 | 105 | 173125 | 7.92 | ug/L | 100 |
| 113) | benzyl chloride | 17.046 | 91 | 119690 | 7.61 | ug/L | 98 |
| 114) | 1,2-dichlorobenzene | 17.319 | 146 | 107895 | 8.08 | ug/L | 98 |
| 115) | n-butylbenzene | 17.225 | 92 | 72451 | 7.54 | ug/L | 98 |
| 116) | 1,2-dibromo-3-chloropr... | 18.011 | 157 | 18542 | 7.26 | ug/L | 97 |
| 117) | 1,3,5-trichlorobenzene | 18.237 | 180 | 61242 | 7.80 | ug/L | 96 |
| 118) | 1,2,4-trichlorobenzene | 18.829 | 180 | 50410 | 7.74 | ug/L | 99 |
| 119) | hexachlorobutadiene | 18.960 | 225 | 23254 | 7.89 | ug/L | 99 |
| 120) | naphthalene | 19.081 | 128 | 147394 | 7.96 | ug/L | 98 |
| 121) | 1,2,3-trichlorobenzene | 19.311 | 180 | 42739 | 8.00 | ug/L | 97 |
| 122) | hexachloroethane | 17.586 | 201 | 31148 | 7.51 | ug/L | 94 |
| 123) | 2-methylnaphthalene | 20.182 | 142 | 20107 | 3.76 | ug/L | 95 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120253.D
Acq On : 13 Aug 2022 11:00 pm
Operator : PrashanS
Sample : IC5341-8
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 18 08:45:55 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration




M4D5341.M Fri Aug 19 12:33:24 2022 Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120254.D
Acq On : 13 Aug 2022 11:28 pm
Operator : PrashanS
Sample : IC5341-20
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 08:45:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 8.532 | 65 | 502456 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 11.027 | 168 | 826545 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 11.919 | 114 | 1066643 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 14.823 | 117 | 1030100 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.931 | 152 | 459221 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 11.022 | 113 | 389665 | 49.74 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.48% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.447 | 65 | 409006 | 49.84 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.68% | | | |
| 74) toluene-d8 (s) | 13.460 | 98 | 1237958 | 49.86 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.72% | | | |
| 97) 4-bromofluorobenzene (s) | 15.867 | 95 | 468854 | 49.99 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.98% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) tertiary butyl alcohol | 8.663 | 59 | 141467 | 98.49 | ug/L | 99 |
| 3) ethanol | 7.069 | 45 | 281206 | 2028.29 | ug/L | 96 |
| 4) 1,4-dioxane | 12.574 | 88 | 63821 | 503.31 | ug/L | 100 |
| 6) chlorodifluoromethane | 4.578 | 51 | 174221 | 19.17 | ug/L | 98 |
| 7) dichlorodifluoromethane | 4.547 | 85 | 207396 | 19.62 | ug/L | 99 |
| 8) chloromethane | 5.035 | 50 | 164914 | 18.45 | ug/L | 98 |
| 9) vinyl chloride | 5.291 | 62 | 170219 | 19.40 | ug/L | 99 |
| 10) 1,3-butadiene | 5.391 | 54 | 157211 | 19.66 | ug/L | 99 |
| 11) bromomethane | 6.067 | 94 | 86812 | 16.49 | ug/L | 98 |
| 12) chloroethane | 6.293 | 64 | 90268 | 19.58 | ug/L | 100 |
| 13) trichlorofluoromethane | 6.859 | 101 | 250316 | 20.17 | ug/L | 100 |
| 14) ethyl ether | 7.378 | 74 | 71803 | 19.31 | ug/L | 99 |
| 15) acrolein | 7.593 | 56 | 28615 | 18.30 | ug/L | 98 |
| 16) freon 113 | 7.834 | 151 | 117813 | 20.04 | ug/L | 98 |
| 17) 1,1-dichloroethene | 7.834 | 96 | 119760 | 18.38 | ug/L | 96 |
| 18) acetone | 7.829 | 58 | 65582 | 85.81 | ug/L | 94 |
| 19) acetonitrile | 8.264 | 41 | 252645 | 192.61 | ug/L | 99 |
| 20) iodomethane | 8.112 | 142 | 200788 | 19.05 | ug/L | 96 |
| 21) carbon disulfide | 8.280 | 76 | 349337 | 19.13 | ug/L | 100 |
| 22) methylene chloride | 8.595 | 84 | 133994 | 19.17 | ug/L | 99 |
| 23) methyl acetate | 8.406 | 43 | 125338 | 19.36 | ug/L | 99 |
| 24) methyl tert butyl ether | 9.040 | 73 | 392901 | 19.37 | ug/L | 97 |
| 25) trans-1,2-dichloroethene | 9.061 | 96 | 132163 | 18.41 | ug/L | 95 |
| 26) di-isopropyl ether | 9.727 | 45 | 421671 | 19.60 | ug/L | 98 |
| 27) 2-butanone | 10.398 | 72 | 87983 | 79.64 | ug/L | 99 |
| 28) 1,1-dichloroethane | 9.659 | 63 | 234429 | 19.73 | ug/L | 98 |
| 29) chloroprene | 9.811 | 53 | 181442 | 20.23 | ug/L | 97 |
| 30) acrylonitrile | 8.925 | 53 | 55249 | 19.16 | ug/L | 98 |
| 31) hexane | 9.491 | 56 | 81445 | 19.62 | ug/L | 99 |
| 32) vinyl acetate | 9.669 | 86 | 29356 | 19.67 | ug/L | 95 |
| 33) ethyl tert-butyl ether | 10.220 | 59 | 413553 | 19.71 | ug/L | 99 |
| 34) ethyl acetate | 10.461 | 70 | 21309 | 19.98 | ug/L # | 89 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120254.D
Acq On : 13 Aug 2022 11:28 pm
Operator : PrashanS
Sample : IC5341-20
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 08:45:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 10.477 | 77 | 202255 | 18.99 | ug/L | | 96 |
| 36) cis-1,2-dichloroethene | 10.445 | 96 | 148643 | 18.69 | ug/L | | 97 |
| 37) methyl acrylate | 10.540 | 55 | 149168 | 20.22 | ug/L | | 98 |
| 38) propionitrile | 10.445 | 54 | 269974 | 201.30 | ug/L | | 97 |
| 39) bromochloromethane | 10.755 | 128 | 81495 | 20.11 | ug/L | | 92 |
| 40) tetrahydrofuran | 10.839 | 72 | 26599 | 18.22 | ug/L | | 99 |
| 41) chloroform | 10.823 | 85 | 163670 | 18.18 | ug/L | | 100 |
| 42) t-butyl formate | 10.902 | 59 | 118402 | 19.24 | ug/L | | 97 |
| 44) methacrylonitrile | 10.681 | 67 | 65553 | 19.57 | ug/L | | 97 |
| 45) 1,1,1-trichloroethane | 11.137 | 97 | 222454 | 19.37 | ug/L | | 99 |
| 46) cyclohexane | 11.253 | 84 | 178120 | 19.91 | ug/L | | 96 |
| 47) 1,1-dichloropropene | 11.321 | 75 | 175503 | 19.53 | ug/L | | 98 |
| 48) isobutyl alcohol | 11.326 | 74 | 12935 | 194.60 | ug/L | | 82 |
| 49) carbon tetrachloride | 11.358 | 117 | 213384 | 19.56 | ug/L | | 99 |
| 50) tert amyl alcohol | 11.400 | 55 | 45310 | 94.93 | ug/L | | 98 |
| 53) n-butyl alcohol | 11.987 | 56 | 313766 | 965.34 | ug/L | | 99 |
| 54) 2,2,4-trimethylpentane | 11.656 | 57 | 304834 | 19.88 | ug/L | | 91 |
| 55) benzene | 11.573 | 78 | 485068 | 19.78 | ug/L | | 100 |
| 56) tert-amyl methyl ether | 11.636 | 87 | 94446 | 19.85 | ug/L | | 98 |
| 57) heptane | 11.814 | 71 | 68934 | 19.94 | ug/L | | 100 |
| 58) isopropyl acetate | 11.499 | 87 | 34470 | 19.68 | ug/L | | 95 |
| 59) 1,2-dichloroethane | 11.536 | 62 | 194303 | 18.50 | ug/L | | 100 |
| 60) trichloroethene | 12.254 | 130 | 147293 | 19.89 | ug/L | | 100 |
| 61) ethyl acrylate | 12.249 | 55 | 199640 | 19.70 | ug/L | | 96 |
| 62) 2-nitropropane | 12.904 | 43 | 62421 | 19.22 | ug/L | | 95 |
| 63) 2-chloroethyl vinyl ether | 12.957 | 63 | 334434 | 98.27 | ug/L | | 99 |
| 64) methyl methacrylate | 12.495 | 100 | 40450 | 19.19 | ug/L | # | 92 |
| 65) 1,2-dichloropropane | 12.480 | 63 | 131899 | 19.91 | ug/L | | 99 |
| 66) dibromomethane | 12.600 | 93 | 102600 | 19.66 | ug/L | | 96 |
| 67) methylcyclohexane | 12.511 | 83 | 180857 | 20.07 | ug/L | | 98 |
| 68) bromodichloromethane | 12.726 | 83 | 194700 | 19.68 | ug/L | | 98 |
| 69) epichlorohydrin | 13.046 | 57 | 93174 | 100.28 | ug/L | | 97 |
| 70) cis-1,3-dichloropropene | 13.161 | 75 | 213976 | 20.01 | ug/L | | 99 |
| 71) 4-methyl-2-pentanone | 13.256 | 58 | 268494 | 80.73 | ug/L | | 98 |
| 72) 3-methyl-1-butanol | 13.245 | 70 | 119319 | 396.35 | ug/L | | 96 |
| 75) toluene | 13.528 | 92 | 302103 | 19.06 | ug/L | | 99 |
| 76) trans-1,3-dichloropropene | 13.659 | 75 | 197011 | 19.80 | ug/L | | 99 |
| 77) ethyl methacrylate | 13.691 | 69 | 179679 | 20.15 | ug/L | | 99 |
| 78) 1,1,2-trichloroethane | 13.853 | 83 | 107415 | 20.21 | ug/L | | 99 |
| 79) tetrachloroethene | 14.074 | 164 | 125748 | 19.63 | ug/L | | 100 |
| 80) 1,3-dichloropropane | 14.026 | 76 | 199230 | 19.84 | ug/L | | 98 |
| 81) 2-hexanone | 14.026 | 58 | 271990 | 81.25 | ug/L | | 99 |
| 82) butyl acetate | 14.115 | 56 | 94393 | 20.21 | ug/L | | 99 |
| 83) dibromochloromethane | 14.262 | 129 | 171940 | 19.77 | ug/L | | 98 |
| 84) 1,2-dibromoethane | 14.409 | 107 | 142655 | 19.87 | ug/L | | 99 |
| 85) n-butyl ether | 14.813 | 57 | 506111 | 19.73 | ug/L | | 98 |
| 86) chlorobenzene | 14.855 | 112 | 360847 | 19.57 | ug/L | | 97 |
| 87) 1,1,1,2-tetrachloroethane | 14.897 | 131 | 148071 | 20.01 | ug/L | | 99 |
| 88) ethylbenzene | 14.918 | 91 | 575750 | 19.56 | ug/L | | 99 |
| 89) m,p-xylene | 15.017 | 106 | 446099 | 39.15 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120254.D
Acq On : 13 Aug 2022 11:28 pm
Operator : PrashanS
Sample : IC5341-20
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 08:45:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

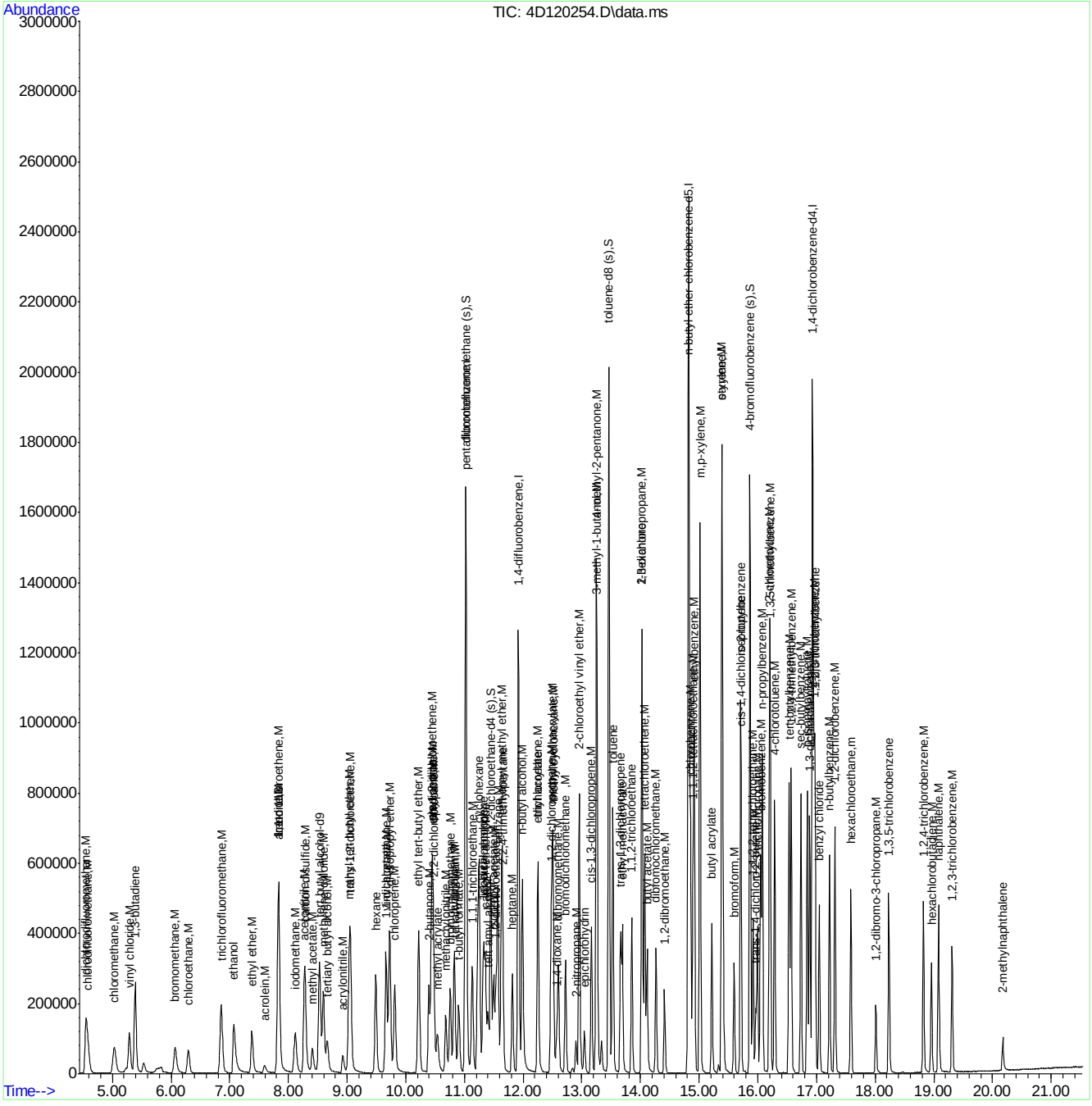
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 90) o-xylene | 15.390 | 106 | 222928 | 19.52 | ug/L | 100 |
| 91) styrene | 15.390 | 104 | 377286 | 19.60 | ug/L | 98 |
| 92) bromoform | 15.594 | 173 | 132558 | 19.83 | ug/L | 99 |
| 93) butyl acrylate | 15.217 | 55 | 256355 | 19.76 | ug/L | 99 |
| 94) isopropylbenzene | 15.709 | 105 | 559873 | 19.74 | ug/L | 99 |
| 95) cis-1,4-dichloro-2-butene | 15.715 | 88 | 42902 | 17.00 | ug/L | 98 |
| 98) bromobenzene | 16.050 | 156 | 169316 | 20.03 | ug/L | 90 |
| 99) 1,1,2,2-tetrachloroethane | 15.919 | 83 | 184166 | 19.94 | ug/L | 99 |
| 100) trans-1,4-dichloro-2-b... | 15.966 | 53 | 32182 | 18.05 | ug/L | 89 |
| 101) 1,2,3-trichloropropane | 15.993 | 110 | 55985 | 20.12 | ug/L | 99 |
| 102) n-propylbenzene | 16.076 | 91 | 618865 | 20.04 | ug/L | 100 |
| 103) 2-chlorotoluene | 16.202 | 126 | 142948 | 20.13 | ug/L | 100 |
| 104) 4-chlorotoluene | 16.286 | 91 | 390277 | 19.33 | ug/L | 100 |
| 105) 1,3,5-trimethylbenzene | 16.213 | 105 | 430013 | 19.69 | ug/L | 99 |
| 106) tert-butylbenzene | 16.538 | 134 | 87038 | 20.16 | ug/L | 96 |
| 107) 1,2,4-trimethylbenzene | 16.569 | 105 | 427245 | 19.45 | ug/L | 100 |
| 108) sec-butylbenzene | 16.732 | 105 | 500322 | 20.02 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 16.884 | 146 | 278114 | 19.85 | ug/L | 98 |
| 110) p-isopropyltoluene | 16.842 | 119 | 414690 | 20.14 | ug/L | 99 |
| 111) 1,4-dichlorobenzene | 16.957 | 146 | 282109 | 19.09 | ug/L | 98 |
| 112) 1,2,3-trimethylbenzene | 16.973 | 105 | 424500 | 19.66 | ug/L | 100 |
| 113) benzyl chloride | 17.046 | 91 | 307293 | 19.76 | ug/L | 100 |
| 114) 1,2-dichlorobenzene | 17.314 | 146 | 268580 | 20.34 | ug/L | 99 |
| 115) n-butylbenzene | 17.219 | 92 | 177833 | 18.72 | ug/L | 97 |
| 116) 1,2-dibromo-3-chloropr... | 18.011 | 157 | 48058 | 19.04 | ug/L | 96 |
| 117) 1,3,5-trichlorobenzene | 18.237 | 180 | 151718 | 19.55 | ug/L | 99 |
| 118) 1,2,4-trichlorobenzene | 18.824 | 180 | 125320 | 19.46 | ug/L | 98 |
| 119) hexachlorobutadiene | 18.965 | 225 | 58522 | 20.10 | ug/L | 96 |
| 120) naphthalene | 19.081 | 128 | 358965 | 19.62 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 19.311 | 180 | 104982 | 19.89 | ug/L | 98 |
| 122) hexachloroethane | 17.586 | 201 | 78862 | 19.24 | ug/L | 98 |
| 123) 2-methylnaphthalene | 20.176 | 142 | 53018 | 10.04 | ug/L | 96 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120254.D
Acq On : 13 Aug 2022 11:28 pm
Operator : PrashanS
Sample : IC5341-20
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 18 08:45:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120255.D
Acq On : 13 Aug 2022 11:56 pm
Operator : PrashanS
Sample : ICC5341-50
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 08:46:01 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 8.537 | 65 | 530256 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 11.022 | 168 | 821289 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 11.919 | 114 | 1067453 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 14.823 | 117 | 1046017 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.931 | 152 | 468061 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 11.022 | 113 | 386016 | 49.59 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.18% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.447 | 65 | 407559 | 49.62 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.24% | | | |
| 74) toluene-d8 (s) | 13.460 | 98 | 1238297 | 49.12 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.24% | | | |
| 97) 4-bromofluorobenzene (s) | 15.867 | 95 | 480977 | 50.32 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.64% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) tertiary butyl alcohol | 8.663 | 59 | 376502 | 248.39 | ug/L | 100 |
| 3) ethanol | 7.069 | 45 | 782572 | 5348.64 | ug/L | 100 |
| 4) 1,4-dioxane | 12.574 | 88 | 171639 | 1282.63 | ug/L | 100 |
| 6) chlorodifluoromethane | 4.584 | 51 | 455257 | 50.41 | ug/L | 100 |
| 7) dichlorodifluoromethane | 4.547 | 85 | 549174 | 52.30 | ug/L | 100 |
| 8) chloromethane | 5.040 | 50 | 430893 | 48.52 | ug/L | 100 |
| 9) vinyl chloride | 5.291 | 62 | 436508 | 50.08 | ug/L | 100 |
| 10) 1,3-butadiene | 5.391 | 54 | 405476 | 51.04 | ug/L | 100 |
| 11) bromomethane | 6.057 | 94 | 229741 | 43.93 | ug/L | 100 |
| 12) chloroethane | 6.293 | 64 | 237409 | 51.82 | ug/L | 100 |
| 13) trichlorofluoromethane | 6.854 | 101 | 650192 | 52.72 | ug/L | 100 |
| 14) ethyl ether | 7.378 | 74 | 189163 | 51.19 | ug/L | 100 |
| 15) acrolein | 7.577 | 56 | 82969 | 53.39 | ug/L | 100 |
| 16) freon 113 | 7.829 | 151 | 300027 | 51.36 | ug/L | 100 |
| 17) 1,1-dichloroethene | 7.834 | 96 | 300365 | 46.38 | ug/L | 100 |
| 18) acetone | 7.824 | 58 | 175195 | 230.71 | ug/L | 100 |
| 19) acetonitrile | 8.264 | 41 | 666128 | 511.09 | ug/L | 100 |
| 20) iodomethane | 8.117 | 142 | 560294 | 50.60 | ug/L | 100 |
| 21) carbon disulfide | 8.280 | 76 | 876778 | 48.32 | ug/L | 100 |
| 22) methylene chloride | 8.594 | 84 | 337143 | 48.53 | ug/L | 100 |
| 23) methyl acetate | 8.400 | 43 | 344269 | 53.52 | ug/L | 100 |
| 24) methyl tert butyl ether | 9.040 | 73 | 1002890 | 49.75 | ug/L | 100 |
| 25) trans-1,2-dichloroethene | 9.061 | 96 | 329448 | 46.18 | ug/L | 100 |
| 26) di-isopropyl ether | 9.727 | 45 | 1063205 | 49.74 | ug/L | 100 |
| 27) 2-butanone | 10.393 | 72 | 236048 | 215.02 | ug/L | 100 |
| 28) 1,1-dichloroethane | 9.659 | 63 | 596401 | 50.52 | ug/L | 100 |
| 29) chloroprene | 9.811 | 53 | 468755 | 52.59 | ug/L | 100 |
| 30) acrylonitrile | 8.920 | 53 | 151445 | 52.85 | ug/L | 100 |
| 31) hexane | 9.486 | 56 | 210907 | 51.14 | ug/L | 100 |
| 32) vinyl acetate | 9.669 | 86 | 79069 | 53.32 | ug/L | 100 |
| 33) ethyl tert-butyl ether | 10.220 | 59 | 1060216 | 50.84 | ug/L | 100 |
| 34) ethyl acetate | 10.456 | 70 | 56154 | 52.99 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120255.D
Acq On : 13 Aug 2022 11:56 pm
Operator : PrashanS
Sample : ICC5341-50
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 08:46:01 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 10.477 | 77 | 508948 | 48.10 | ug/L | 100 |
| 36) cis-1,2-dichloroethene | 10.445 | 96 | 367873 | 46.56 | ug/L | 100 |
| 37) methyl acrylate | 10.534 | 55 | 383982 | 52.39 | ug/L | 100 |
| 38) propionitrile | 10.445 | 54 | 705207 | 529.17 | ug/L | 100 |
| 39) bromochloromethane | 10.755 | 128 | 202030 | 50.16 | ug/L | 100 |
| 40) tetrahydrofuran | 10.833 | 72 | 70342 | 48.49 | ug/L | 100 |
| 41) chloroform | 10.823 | 85 | 411302 | 45.97 | ug/L | 100 |
| 42) t-butyl formate | 10.901 | 59 | 310035 | 50.70 | ug/L | 100 |
| 44) methacrylonitrile | 10.676 | 67 | 171119 | 51.42 | ug/L | 100 |
| 45) 1,1,1-trichloroethane | 11.132 | 97 | 573417 | 50.25 | ug/L | 100 |
| 46) cyclohexane | 11.253 | 84 | 456173 | 51.33 | ug/L | 100 |
| 47) 1,1-dichloropropene | 11.321 | 75 | 443412 | 49.66 | ug/L | 100 |
| 48) isobutyl alcohol | 11.321 | 74 | 31142 | 471.50 | ug/L | 100 |
| 49) carbon tetrachloride | 11.358 | 117 | 540642 | 49.88 | ug/L | 100 |
| 50) tert amyl alcohol | 11.400 | 55 | 122305 | 257.89 | ug/L | 100 |
| 53) n-butyl alcohol | 11.987 | 56 | 871595 | 2679.52 | ug/L | 100 |
| 54) 2,2,4-trimethylpentane | 11.651 | 57 | 758861 | 49.46 | ug/L | 100 |
| 55) benzene | 11.567 | 78 | 1220112 | 49.71 | ug/L | 100 |
| 56) tert-amyl methyl ether | 11.635 | 87 | 243696 | 51.18 | ug/L | 100 |
| 57) heptane | 11.814 | 71 | 175943 | 50.85 | ug/L | 100 |
| 58) isopropyl acetate | 11.494 | 87 | 89421 | 51.02 | ug/L | 100 |
| 59) 1,2-dichloroethane | 11.536 | 62 | 493989 | 47.01 | ug/L | 100 |
| 60) trichloroethene | 12.254 | 130 | 380562 | 51.34 | ug/L | 100 |
| 61) ethyl acrylate | 12.244 | 55 | 525497 | 51.82 | ug/L | 100 |
| 62) 2-nitropropane | 12.904 | 43 | 173099 | 53.25 | ug/L | 100 |
| 63) 2-chloroethyl vinyl ether | 12.957 | 63 | 908845 | 266.86 | ug/L | 100 |
| 64) methyl methacrylate | 12.495 | 100 | 110660 | 52.46 | ug/L | 100 |
| 65) 1,2-dichloropropane | 12.474 | 63 | 339073 | 51.13 | ug/L | 100 |
| 66) dibromomethane | 12.600 | 93 | 256043 | 49.04 | ug/L | 100 |
| 67) methylcyclohexane | 12.511 | 83 | 464501 | 51.52 | ug/L | 100 |
| 68) bromodichloromethane | 12.726 | 83 | 502061 | 50.71 | ug/L | 100 |
| 69) epichlorohydrin | 13.041 | 57 | 250559 | 269.46 | ug/L | 100 |
| 70) cis-1,3-dichloropropene | 13.161 | 75 | 552400 | 51.62 | ug/L | 100 |
| 71) 4-methyl-2-pentanone | 13.256 | 58 | 694007 | 208.52 | ug/L | 100 |
| 72) 3-methyl-1-butanol | 13.245 | 70 | 332236 | 1102.77 | ug/L | 100 |
| 75) toluene | 13.528 | 92 | 774232 | 48.09 | ug/L | 100 |
| 76) trans-1,3-dichloropropene | 13.659 | 75 | 521803 | 51.65 | ug/L | 100 |
| 77) ethyl methacrylate | 13.691 | 69 | 476042 | 52.57 | ug/L | 100 |
| 78) 1,1,2-trichloroethane | 13.853 | 83 | 272271 | 50.45 | ug/L | 100 |
| 79) tetrachloroethene | 14.073 | 164 | 316408 | 48.63 | ug/L | 100 |
| 80) 1,3-dichloropropane | 14.021 | 76 | 517712 | 50.76 | ug/L | 100 |
| 81) 2-hexanone | 14.026 | 58 | 729404 | 214.57 | ug/L | 100 |
| 82) butyl acetate | 14.110 | 56 | 241585 | 50.95 | ug/L | 100 |
| 83) dibromochloromethane | 14.262 | 129 | 451464 | 51.11 | ug/L | 100 |
| 84) 1,2-dibromoethane | 14.409 | 107 | 371460 | 50.96 | ug/L | 100 |
| 85) n-butyl ether | 14.813 | 57 | 1351961 | 51.91 | ug/L | 100 |
| 86) chlorobenzene | 14.849 | 112 | 922560 | 49.27 | ug/L | 100 |
| 87) 1,1,1,2-tetrachloroethane | 14.897 | 131 | 375604 | 49.99 | ug/L | 100 |
| 88) ethylbenzene | 14.918 | 91 | 1470285 | 49.18 | ug/L | 100 |
| 89) m,p-xylene | 15.012 | 106 | 1145162 | 98.96 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120255.D
Acq On : 13 Aug 2022 11:56 pm
Operator : PrashanS
Sample : ICC5341-50
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 08:46:01 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

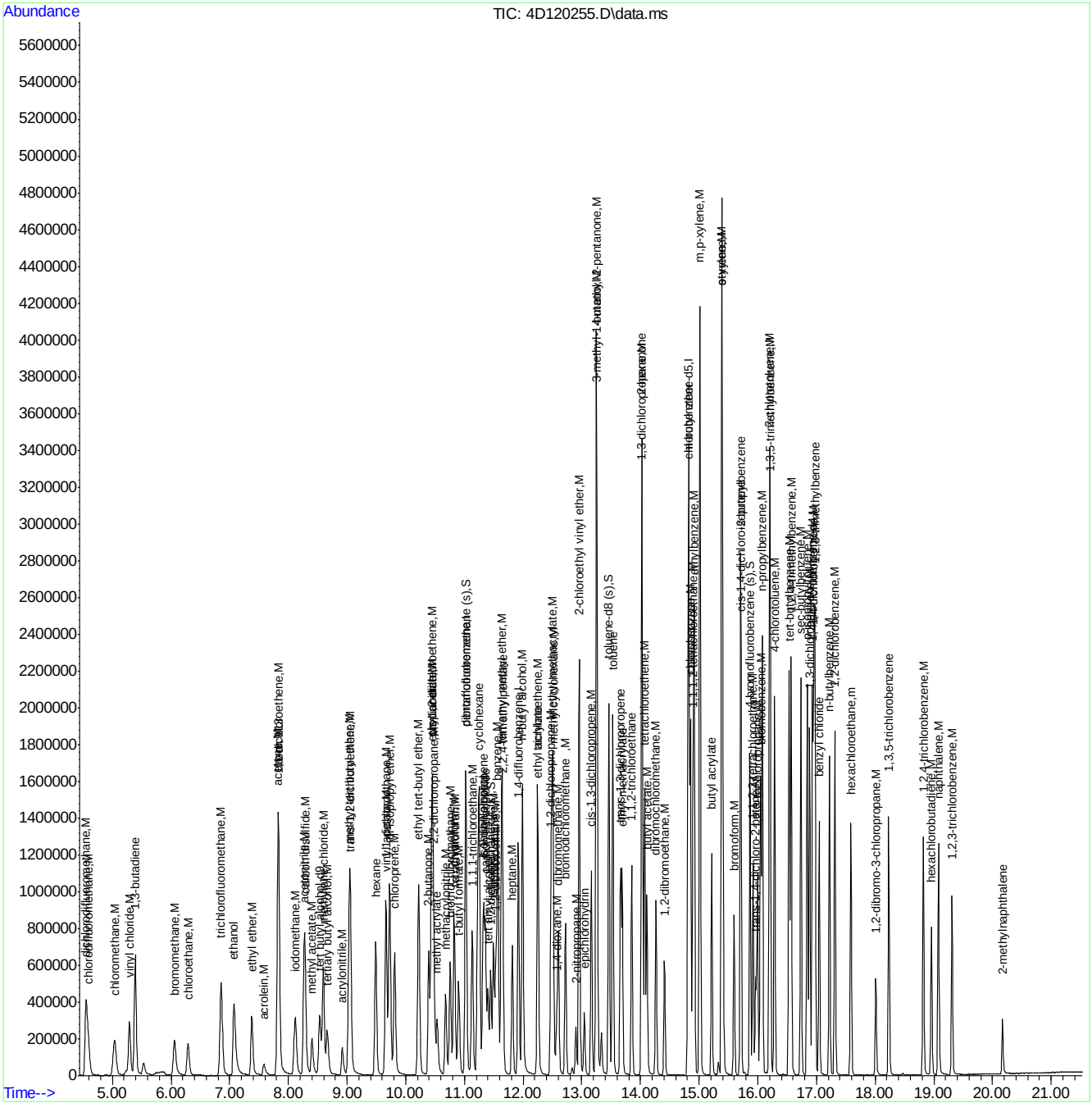
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 90) o-xylene | 15.389 | 106 | 583060 | 50.28 | ug/L | 100 |
| 91) styrene | 15.389 | 104 | 1003457 | 51.34 | ug/L | 100 |
| 92) bromoform | 15.594 | 173 | 358267 | 52.77 | ug/L | 100 |
| 93) butyl acrylate | 15.216 | 55 | 699034 | 53.07 | ug/L | 100 |
| 94) isopropylbenzene | 15.704 | 105 | 1461277 | 50.74 | ug/L | 100 |
| 95) cis-1,4-dichloro-2-butene | 15.715 | 88 | 127088 | 44.60 | ug/L | 100 |
| 98) bromobenzene | 16.050 | 156 | 438240 | 50.87 | ug/L | 100 |
| 99) 1,1,2,2-tetrachloroethane | 15.919 | 83 | 480966 | 51.09 | ug/L | 100 |
| 100) trans-1,4-dichloro-2-b... | 15.961 | 53 | 96225 | 52.94 | ug/L | 100 |
| 101) 1,2,3-trichloropropane | 15.992 | 110 | 146144 | 51.54 | ug/L | 100 |
| 102) n-propylbenzene | 16.076 | 91 | 1609405 | 51.13 | ug/L | 100 |
| 103) 2-chlorotoluene | 16.202 | 126 | 369660 | 51.08 | ug/L | 100 |
| 104) 4-chlorotoluene | 16.286 | 91 | 1017187 | 49.43 | ug/L | 100 |
| 105) 1,3,5-trimethylbenzene | 16.213 | 105 | 1134651 | 50.98 | ug/L | 100 |
| 106) tert-butylbenzene | 16.538 | 134 | 228866 | 52.02 | ug/L | 100 |
| 107) 1,2,4-trimethylbenzene | 16.569 | 105 | 1133711 | 50.63 | ug/L | 100 |
| 108) sec-butylbenzene | 16.732 | 105 | 1320722 | 51.86 | ug/L | 100 |
| 109) 1,3-dichlorobenzene | 16.884 | 146 | 723645 | 50.68 | ug/L | 100 |
| 110) p-isopropyltoluene | 16.842 | 119 | 1101965 | 52.49 | ug/L | 100 |
| 111) 1,4-dichlorobenzene | 16.952 | 146 | 735670 | 48.84 | ug/L | 100 |
| 112) 1,2,3-trimethylbenzene | 16.973 | 105 | 1116155 | 50.71 | ug/L | 100 |
| 113) benzyl chloride | 17.046 | 91 | 838376 | 52.88 | ug/L | 100 |
| 114) 1,2-dichlorobenzene | 17.314 | 146 | 702210 | 52.17 | ug/L | 100 |
| 115) n-butylbenzene | 17.219 | 92 | 482467 | 49.84 | ug/L | 100 |
| 116) 1,2-dibromo-3-chloropr... | 18.011 | 157 | 137190 | 53.34 | ug/L | 100 |
| 117) 1,3,5-trichlorobenzene | 18.231 | 180 | 402945 | 50.95 | ug/L | 100 |
| 118) 1,2,4-trichlorobenzene | 18.824 | 180 | 334715 | 51.00 | ug/L | 100 |
| 119) hexachlorobutadiene | 18.960 | 225 | 151950 | 51.19 | ug/L | 100 |
| 120) naphthalene | 19.081 | 128 | 928624 | 49.80 | ug/L | 100 |
| 121) 1,2,3-trichlorobenzene | 19.311 | 180 | 272589 | 50.66 | ug/L | 100 |
| 122) hexachloroethane | 17.592 | 201 | 215018 | 51.46 | ug/L | 100 |
| 123) 2-methylnaphthalene | 20.171 | 142 | 142560 | 26.48 | ug/L | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120255.D
Acq On : 13 Aug 2022 11:56 pm
Operator : PrashanS
Sample : ICC5341-50
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 08:46:01 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120256.D
Acq On : 14 Aug 2022 12:25 am
Operator : PrashanS
Sample : IC5341-100
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 08:46:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 8.542 | 65 | 528843 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 11.022 | 168 | 822620 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 11.919 | 114 | 1070629 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 14.823 | 117 | 1054634 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.931 | 152 | 468509 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 11.022 | 113 | 386889 | 49.62 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.24% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.447 | 65 | 412479 | 50.07 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.14% | | | |
| 74) toluene-d8 (s) | 13.460 | 98 | 1237738 | 48.70 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.40% | | | |
| 97) 4-bromofluorobenzene (s) | 15.867 | 95 | 482356 | 50.41 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.82% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) tertiary butyl alcohol | 8.673 | 59 | 770101 | 509.41 | ug/L | 99 |
| 3) ethanol | 7.079 | 45 | 1572986 | 10779.60 | ug/L | 98 |
| 4) 1,4-dioxane | 12.579 | 88 | 343870 | 2576.56 | ug/L | 95 |
| 6) chlorodifluoromethane | 4.578 | 51 | 961314 | 106.27 | ug/L | 99 |
| 7) dichlorodifluoromethane | 4.547 | 85 | 1179807 | 112.17 | ug/L | 99 |
| 8) chloromethane | 5.040 | 50 | 898038 | 100.96 | ug/L | 100 |
| 9) vinyl chloride | 5.291 | 62 | 920990 | 105.49 | ug/L | 98 |
| 10) 1,3-butadiene | 5.391 | 54 | 797252 | 100.20 | ug/L | 99 |
| 11) bromomethane | 6.041 | 94 | 521268 | 99.51 | ug/L | 99 |
| 12) chloroethane | 6.277 | 64 | 502810 | 109.57 | ug/L | 100 |
| 13) trichlorofluoromethane | 6.849 | 101 | 1378422 | 111.59 | ug/L | 99 |
| 14) ethyl ether | 7.373 | 74 | 399572 | 107.96 | ug/L | 99 |
| 15) acrolein | 7.572 | 56 | 168594 | 108.32 | ug/L | 97 |
| 16) freon 113 | 7.829 | 151 | 619791 | 105.93 | ug/L | 99 |
| 17) 1,1-dichloroethene | 7.829 | 96 | 626949 | 96.65 | ug/L | 99 |
| 18) acetone | 7.824 | 58 | 346518 | 455.58 | ug/L | 97 |
| 19) acetonitrile | 8.264 | 41 | 1322928 | 1013.39 | ug/L | 99 |
| 20) iodomethane | 8.112 | 142 | 1192394 | 105.71 | ug/L | 99 |
| 21) carbon disulfide | 8.280 | 76 | 1814372 | 99.83 | ug/L | 100 |
| 22) methylene chloride | 8.594 | 84 | 705867 | 101.45 | ug/L | 98 |
| 23) methyl acetate | 8.395 | 43 | 704350 | 109.33 | ug/L | 100 |
| 24) methyl tert butyl ether | 9.035 | 73 | 2117409 | 104.87 | ug/L | 99 |
| 25) trans-1,2-dichloroethene | 9.056 | 96 | 681753 | 95.42 | ug/L | 97 |
| 26) di-isopropyl ether | 9.727 | 45 | 2185745 | 102.08 | ug/L | 99 |
| 27) 2-butanone | 10.393 | 72 | 474894 | 431.90 | ug/L | 98 |
| 28) 1,1-dichloroethane | 9.654 | 63 | 1243232 | 105.15 | ug/L | 98 |
| 29) chloroprene | 9.811 | 53 | 982260 | 110.03 | ug/L | 99 |
| 30) acrylonitrile | 8.914 | 53 | 313666 | 109.28 | ug/L | 99 |
| 31) hexane | 9.486 | 56 | 442916 | 107.23 | ug/L | 99 |
| 32) vinyl acetate | 9.664 | 86 | 165425 | 111.37 | ug/L | 98 |
| 33) ethyl tert-butyl ether | 10.220 | 59 | 2249165 | 107.68 | ug/L | 99 |
| 34) ethyl acetate | 10.456 | 70 | 115531 | 108.84 | ug/L | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120256.D
Acq On : 14 Aug 2022 12:25 am
Operator : PrashanS
Sample : IC5341-100
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 08:46:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 10.477 | 77 | 1045016 | 98.61 | ug/L | 100 |
| 36) cis-1,2-dichloroethene | 10.445 | 96 | 757978 | 95.78 | ug/L | 100 |
| 37) methyl acrylate | 10.529 | 55 | 782492 | 106.59 | ug/L | 99 |
| 38) propionitrile | 10.445 | 54 | 1377103 | 1031.68 | ug/L | 99 |
| 39) bromochloromethane | 10.755 | 128 | 419332 | 103.95 | ug/L | 98 |
| 40) tetrahydrofuran | 10.833 | 72 | 140190 | 96.49 | ug/L | 96 |
| 41) chloroform | 10.823 | 85 | 858112 | 95.75 | ug/L | 98 |
| 42) t-butyl formate | 10.901 | 59 | 661478 | 108.00 | ug/L | 99 |
| 44) methacrylonitrile | 10.676 | 67 | 353571 | 106.07 | ug/L | 98 |
| 45) 1,1,1-trichloroethane | 11.132 | 97 | 1206900 | 105.58 | ug/L | 99 |
| 46) cyclohexane | 11.253 | 84 | 945411 | 106.20 | ug/L | 92 |
| 47) 1,1-dichloropropene | 11.321 | 75 | 923541 | 103.26 | ug/L | 99 |
| 48) isobutyl alcohol | 11.321 | 74 | 64761 | 978.92 | ug/L | 77 |
| 49) carbon tetrachloride | 11.358 | 117 | 1123181 | 103.47 | ug/L | 100 |
| 50) tert amyl alcohol | 11.410 | 55 | 241055 | 507.47 | ug/L | 98 |
| 53) n-butyl alcohol | 11.992 | 56 | 1764122 | 5407.31 | ug/L | 100 |
| 54) 2,2,4-trimethylpentane | 11.651 | 57 | 1555989 | 101.11 | ug/L | 98 |
| 55) benzene | 11.567 | 78 | 2526070 | 102.62 | ug/L | 100 |
| 56) tert-amyl methyl ether | 11.635 | 87 | 510479 | 106.90 | ug/L | 97 |
| 57) heptane | 11.814 | 71 | 365920 | 105.44 | ug/L | 98 |
| 58) isopropyl acetate | 11.494 | 87 | 185978 | 105.80 | ug/L | 100 |
| 59) 1,2-dichloroethane | 11.536 | 62 | 1040514 | 98.72 | ug/L | 99 |
| 60) trichloroethene | 12.254 | 130 | 802740 | 107.97 | ug/L | 99 |
| 61) ethyl acrylate | 12.244 | 55 | 1103254 | 108.48 | ug/L | 99 |
| 62) 2-nitropropane | 12.899 | 43 | 370441 | 113.61 | ug/L | 98 |
| 63) 2-chloroethyl vinyl ether | 12.957 | 63 | 1958394 | 573.33 | ug/L | 99 |
| 64) methyl methacrylate | 12.495 | 100 | 231500 | 109.41 | ug/L | 96 |
| 65) 1,2-dichloropropane | 12.474 | 63 | 709266 | 106.64 | ug/L | 99 |
| 66) dibromomethane | 12.600 | 93 | 537367 | 102.61 | ug/L | 98 |
| 67) methylcyclohexane | 12.511 | 83 | 957482 | 105.87 | ug/L | 99 |
| 68) bromodichloromethane | 12.721 | 83 | 1064252 | 107.17 | ug/L | 100 |
| 69) epichlorohydrin | 13.041 | 57 | 505492 | 542.02 | ug/L | 97 |
| 70) cis-1,3-dichloropropene | 13.161 | 75 | 1166919 | 108.73 | ug/L | 98 |
| 71) 4-methyl-2-pentanone | 13.256 | 58 | 1424239 | 426.66 | ug/L | 99 |
| 72) 3-methyl-1-butanol | 13.245 | 70 | 682360 | 2258.20 | ug/L | 98 |
| 75) toluene | 13.528 | 92 | 1652018 | 101.78 | ug/L | 98 |
| 76) trans-1,3-dichloropropene | 13.659 | 75 | 1112273 | 109.19 | ug/L | 99 |
| 77) ethyl methacrylate | 13.691 | 69 | 997032 | 109.21 | ug/L | 98 |
| 78) 1,1,2-trichloroethane | 13.853 | 83 | 573819 | 105.45 | ug/L | 98 |
| 79) tetrachloroethene | 14.073 | 164 | 653090 | 99.56 | ug/L | 99 |
| 80) 1,3-dichloropropane | 14.021 | 76 | 1094431 | 106.44 | ug/L | 96 |
| 81) 2-hexanone | 14.026 | 58 | 1501825 | 438.18 | ug/L | 97 |
| 82) butyl acetate | 14.110 | 56 | 499672 | 104.51 | ug/L | 98 |
| 83) dibromochloromethane | 14.262 | 129 | 974442 | 109.42 | ug/L | 99 |
| 84) 1,2-dibromoethane | 14.409 | 107 | 794846 | 108.15 | ug/L | 99 |
| 85) n-butyl ether | 14.813 | 57 | 2906382 | 110.69 | ug/L | 100 |
| 86) chlorobenzene | 14.849 | 112 | 1925976 | 102.03 | ug/L | 99 |
| 87) 1,1,1,2-tetrachloroethane | 14.897 | 131 | 797178 | 105.22 | ug/L | 98 |
| 88) ethylbenzene | 14.918 | 91 | 3074171 | 101.99 | ug/L | 99 |
| 89) m,p-xylene | 15.012 | 106 | 2442653 | 209.37 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120256.D
Acq On : 14 Aug 2022 12:25 am
Operator : PrashanS
Sample : IC5341-100
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 08:46:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

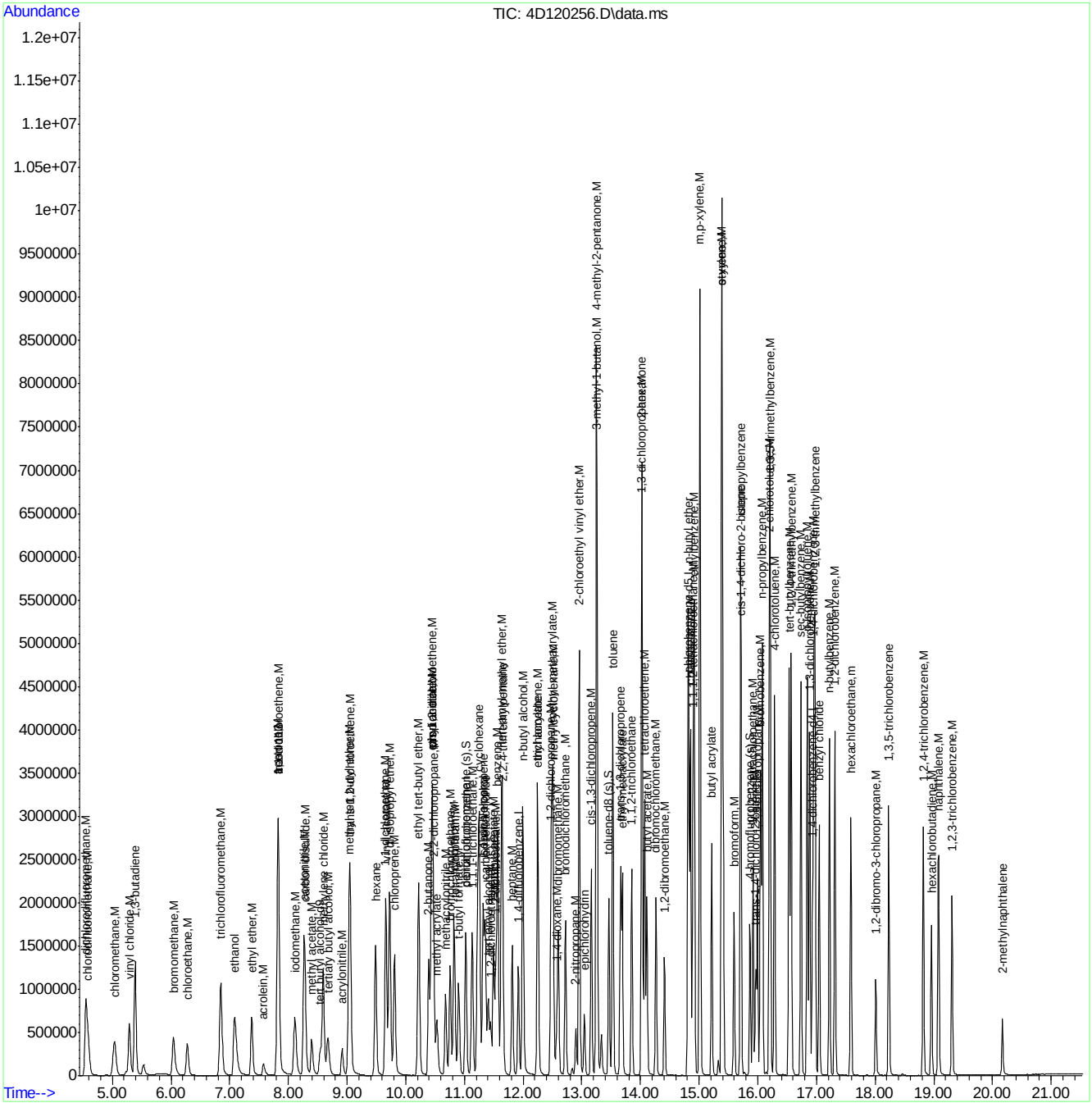
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 90) | o-xylene | 15.389 | 106 | 1251655 | 107.06 | ug/L | 98 |
| 91) | styrene | 15.389 | 104 | 2178658 | 110.55 | ug/L | 98 |
| 92) | bromoform | 15.594 | 173 | 775412 | 113.28 | ug/L | 100 |
| 93) | butyl acrylate | 15.216 | 55 | 1503466 | 113.20 | ug/L | 99 |
| 94) | isopropylbenzene | 15.704 | 105 | 3104597 | 106.92 | ug/L | 100 |
| 95) | cis-1,4-dichloro-2-butene | 15.715 | 88 | 289159 | 97.38 | ug/L | 99 |
| 98) | bromobenzene | 16.045 | 156 | 927715 | 107.58 | ug/L | 94 |
| 99) | 1,1,2,2-tetrachloroethane | 15.919 | 83 | 1016299 | 107.86 | ug/L | 100 |
| 100) | trans-1,4-dichloro-2-b... | 15.961 | 53 | 214387 | 117.84 | ug/L | 94 |
| 101) | 1,2,3-trichloropropane | 15.992 | 110 | 301213 | 106.13 | ug/L | 98 |
| 102) | n-propylbenzene | 16.076 | 91 | 3391174 | 107.64 | ug/L | 99 |
| 103) | 2-chlorotoluene | 16.197 | 126 | 792344 | 109.38 | ug/L | 99 |
| 104) | 4-chlorotoluene | 16.286 | 91 | 2174599 | 105.57 | ug/L | 99 |
| 105) | 1,3,5-trimethylbenzene | 16.213 | 105 | 2420647 | 108.65 | ug/L | 100 |
| 106) | tert-butylbenzene | 16.538 | 134 | 488202 | 110.86 | ug/L | 95 |
| 107) | 1,2,4-trimethylbenzene | 16.569 | 105 | 2414598 | 107.73 | ug/L | 99 |
| 108) | sec-butylbenzene | 16.732 | 105 | 2812600 | 110.33 | ug/L | 100 |
| 109) | 1,3-dichlorobenzene | 16.884 | 146 | 1536854 | 107.53 | ug/L | 99 |
| 110) | p-isopropyltoluene | 16.842 | 119 | 2366677 | 112.63 | ug/L | 100 |
| 111) | 1,4-dichlorobenzene | 16.952 | 146 | 1571057 | 104.21 | ug/L | 99 |
| 112) | 1,2,3-trimethylbenzene | 16.973 | 105 | 2383496 | 108.18 | ug/L | 99 |
| 113) | benzyl chloride | 17.046 | 91 | 1794614 | 113.09 | ug/L | 100 |
| 114) | 1,2-dichlorobenzene | 17.314 | 146 | 1491904 | 110.72 | ug/L | 98 |
| 115) | n-butylbenzene | 17.219 | 92 | 1056532 | 109.04 | ug/L | 100 |
| 116) | 1,2-dibromo-3-chloropr... | 18.011 | 157 | 289008 | 112.25 | ug/L | 100 |
| 117) | 1,3,5-trichlorobenzene | 18.231 | 180 | 878130 | 110.94 | ug/L | 100 |
| 118) | 1,2,4-trichlorobenzene | 18.824 | 180 | 724827 | 110.34 | ug/L | 99 |
| 119) | hexachlorobutadiene | 18.965 | 225 | 325267 | 109.48 | ug/L | 100 |
| 120) | naphthalene | 19.081 | 128 | 1883960 | 100.94 | ug/L | 100 |
| 121) | 1,2,3-trichlorobenzene | 19.306 | 180 | 582967 | 108.24 | ug/L | 98 |
| 122) | hexachloroethane | 17.586 | 201 | 471789 | 112.79 | ug/L | 99 |
| 123) | 2-methylnaphthalene | 20.171 | 142 | 301448 | 55.94 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120256.D
Acq On : 14 Aug 2022 12:25 am
Operator : PrashanS
Sample : IC5341-100
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 18 08:46:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120257.D
Acq On : 14 Aug 2022 12:53 am
Operator : PrashanS
Sample : IC5341-200
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 12:33:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 8.573 | 65 | 536131 | 500.00 | ug/L | 0.04 |
| 5) pentafluorobenzene | 11.022 | 168 | 811801 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 11.919 | 114 | 1063342 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 14.823 | 117 | 1042462 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.931 | 152 | 466954 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 11.022 | 113 | 383006 | 49.78 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.56% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.447 | 65 | 411714 | 50.32 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.64% | | | |
| 74) toluene-d8 (s) | 13.460 | 98 | 1224219 | 48.73 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.46% | | | |
| 97) 4-bromofluorobenzene (s) | 15.867 | 95 | 484418 | 50.80 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.60% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) tertiary butyl alcohol | 8.699 | 59 | 1538235 | 1003.68 | ug/L | 99 |
| 3) ethanol | 7.116 | 45 | 3101759 | 20967.25 | ug/L | 99 |
| 4) 1,4-dioxane | 12.584 | 88 | 676016 | 4996.41 | ug/L | 97 |
| 6) chlorodifluoromethane | 4.584 | 51 | 1859365 | 208.29 | ug/L | 99 |
| 7) dichlorodifluoromethane | 4.547 | 85 | 2290242 | 220.65 | ug/L | 99 |
| 8) chloromethane | 5.040 | 50 | 1697920 | 193.43 | ug/L | 100 |
| 9) vinyl chloride | 5.291 | 62 | 1707180 | 198.15 | ug/L | 99 |
| 10) 1,3-butadiene | 5.391 | 54 | 1439659 | 183.35 | ug/L | 99 |
| 11) bromomethane | 6.015 | 94 | 975035 | 188.61 | ug/L | 98 |
| 12) chloroethane | 6.261 | 64 | 958542 | 211.67 | ug/L | 99 |
| 13) trichlorofluoromethane | 6.843 | 101 | 2663394 | 218.48 | ug/L | 100 |
| 14) ethyl ether | 7.378 | 74 | 777443 | 212.85 | ug/L | 100 |
| 15) acrolein | 7.572 | 56 | 340126 | 221.45 | ug/L | 99 |
| 16) freon 113 | 7.824 | 151 | 1185299 | 205.28 | ug/L | 98 |
| 17) 1,1-dichloroethene | 7.829 | 96 | 1189302 | 185.79 | ug/L | 99 |
| 18) acetone | 7.829 | 58 | 661366 | 881.12 | ug/L | 94 |
| 19) acetonitrile | 8.269 | 41 | 2552060 | 1980.98 | ug/L | 99 |
| 20) iodomethane | 8.112 | 142 | 2191129 | 195.47 | ug/L | 100 |
| 21) carbon disulfide | 8.275 | 76 | 3562658 | 198.63 | ug/L | 99 |
| 22) methylene chloride | 8.594 | 84 | 1359077 | 197.93 | ug/L | 99 |
| 23) methyl acetate | 8.395 | 43 | 1396415 | 219.64 | ug/L | 99 |
| 24) methyl tert butyl ether | 9.040 | 73 | 4100291 | 205.78 | ug/L | 99 |
| 25) trans-1,2-dichloroethene | 9.056 | 96 | 1294485 | 183.59 | ug/L | 97 |
| 26) di-isopropyl ether | 9.727 | 45 | 4148001 | 196.31 | ug/L | 98 |
| 27) 2-butanone | 10.398 | 72 | 943340 | 869.36 | ug/L | 100 |
| 28) 1,1-dichloroethane | 9.659 | 63 | 2395558 | 205.31 | ug/L | 98 |
| 29) chloroprene | 9.806 | 53 | 1908922 | 216.69 | ug/L | 98 |
| 30) acrylonitrile | 8.914 | 53 | 629138 | 222.12 | ug/L | 98 |
| 31) hexane | 9.481 | 56 | 868821 | 213.14 | ug/L | 99 |
| 32) vinyl acetate | 9.664 | 86 | 323913 | 220.98 | ug/L | 99 |
| 33) ethyl tert-butyl ether | 10.220 | 59 | 4407101 | 213.81 | ug/L | 100 |
| 34) ethyl acetate | 10.461 | 70 | 228090 | 217.75 | ug/L # | 60 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120257.D
Acq On : 14 Aug 2022 12:53 am
Operator : PrashanS
Sample : IC5341-200
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 12:33:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 10.477 | 77 | 2002627 | 191.48 | ug/L | | 95 |
| 36) cis-1,2-dichloroethene | 10.445 | 96 | 1456714 | 186.53 | ug/L | | 98 |
| 37) methyl acrylate | 10.534 | 55 | 1536389 | 212.07 | ug/L | | 99 |
| 38) propionitrile | 10.451 | 54 | 2628612 | 1995.52 | ug/L | | 98 |
| 39) bromochloromethane | 10.755 | 128 | 805728 | 202.40 | ug/L | | 95 |
| 40) tetrahydrofuran | 10.833 | 72 | 273412 | 190.69 | ug/L | | 97 |
| 41) chloroform | 10.823 | 85 | 1666069 | 188.38 | ug/L | | 99 |
| 42) t-butyl formate | 10.901 | 59 | 1327525 | 219.64 | ug/L | | 98 |
| 44) methacrylonitrile | 10.681 | 67 | 700692 | 213.01 | ug/L | | 97 |
| 45) 1,1,1-trichloroethane | 11.132 | 97 | 2363310 | 209.50 | ug/L | | 99 |
| 46) cyclohexane | 11.247 | 84 | 1802755 | 205.21 | ug/L | # | 85 |
| 47) 1,1-dichloropropene | 11.321 | 75 | 1767949 | 200.31 | ug/L | | 99 |
| 48) isobutyl alcohol | 11.321 | 74 | 129896 | 1989.67 | ug/L | | 46 |
| 49) carbon tetrachloride | 11.358 | 117 | 2171915 | 202.74 | ug/L | | 99 |
| 50) tert amyl alcohol | 11.420 | 55 | 476287 | 1016.04 | ug/L | | 96 |
| 53) n-butyl alcohol | 12.008 | 56 | 3522895 | 10872.22 | ug/L | | 97 |
| 54) 2,2,4-trimethylpentane | 11.651 | 57 | 3069789 | 200.84 | ug/L | | 97 |
| 55) benzene | 11.567 | 78 | 4835389 | 197.78 | ug/L | | 100 |
| 56) tert-amyl methyl ether | 11.635 | 87 | 1015108 | 214.03 | ug/L | | 97 |
| 57) heptane | 11.814 | 71 | 733881 | 212.92 | ug/L | | 99 |
| 58) isopropyl acetate | 11.499 | 87 | 367819 | 210.68 | ug/L | | 98 |
| 59) 1,2-dichloroethane | 11.536 | 62 | 2033963 | 194.30 | ug/L | | 99 |
| 60) trichloroethene | 12.254 | 130 | 1561236 | 211.43 | ug/L | | 100 |
| 61) ethyl acrylate | 12.244 | 55 | 2178559 | 215.67 | ug/L | | 99 |
| 62) 2-nitropropane | 12.904 | 43 | 768263 | 237.24 | ug/L | | 99 |
| 63) 2-chloroethyl vinyl ether | 12.962 | 63 | 4093863 | 1206.71 | ug/L | | 98 |
| 64) methyl methacrylate | 12.495 | 100 | 462695 | 220.18 | ug/L | | 95 |
| 65) 1,2-dichloropropane | 12.480 | 63 | 1385988 | 209.82 | ug/L | | 99 |
| 66) dibromomethane | 12.600 | 93 | 1059010 | 203.60 | ug/L | | 98 |
| 67) methylcyclohexane | 12.511 | 83 | 1872218 | 208.44 | ug/L | | 99 |
| 68) bromodichloromethane | 12.726 | 83 | 2098179 | 212.73 | ug/L | | 99 |
| 69) epichlorohydrin | 13.046 | 57 | 984568 | 1062.95 | ug/L | | 97 |
| 70) cis-1,3-dichloropropene | 13.161 | 75 | 2293781 | 215.19 | ug/L | | 100 |
| 71) 4-methyl-2-pentanone | 13.261 | 58 | 2843415 | 857.63 | ug/L | | 94 |
| 72) 3-methyl-1-butanol | 13.256 | 70 | 1380090 | 4598.57 | ug/L | | 99 |
| 75) toluene | 13.528 | 92 | 3244032 | 202.19 | ug/L | | 97 |
| 76) trans-1,3-dichloropropene | 13.659 | 75 | 2231552 | 221.63 | ug/L | | 99 |
| 77) ethyl methacrylate | 13.691 | 69 | 1980715 | 219.49 | ug/L | | 97 |
| 78) 1,1,2-trichloroethane | 13.853 | 83 | 1146511 | 213.15 | ug/L | | 98 |
| 79) tetrachloroethene | 14.073 | 164 | 1258437 | 194.08 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 14.026 | 76 | 2185036 | 214.99 | ug/L | | 93 |
| 81) 2-hexanone | 14.031 | 58 | 2977855 | 878.98 | ug/L | | 92 |
| 82) butyl acetate | 14.110 | 56 | 972878 | 205.86 | ug/L | | 96 |
| 83) dibromochloromethane | 14.262 | 129 | 1952491 | 221.81 | ug/L | | 100 |
| 84) 1,2-dibromoethane | 14.409 | 107 | 1580063 | 217.50 | ug/L | | 99 |
| 85) n-butyl ether | 14.813 | 57 | 5709487 | 219.99 | ug/L | | 100 |
| 86) chlorobenzene | 14.849 | 112 | 3740450 | 200.46 | ug/L | | 98 |
| 87) 1,1,1,2-tetrachloroethane | 14.897 | 131 | 1563469 | 208.78 | ug/L | | 98 |
| 88) ethylbenzene | 14.918 | 91 | 5953776 | 199.83 | ug/L | | 99 |
| 89) m,p-xylene | 15.017 | 106 | 4789898 | 415.35 | ug/L | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120257.D
Acq On : 14 Aug 2022 12:53 am
Operator : PrashanS
Sample : IC5341-200
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 12:33:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

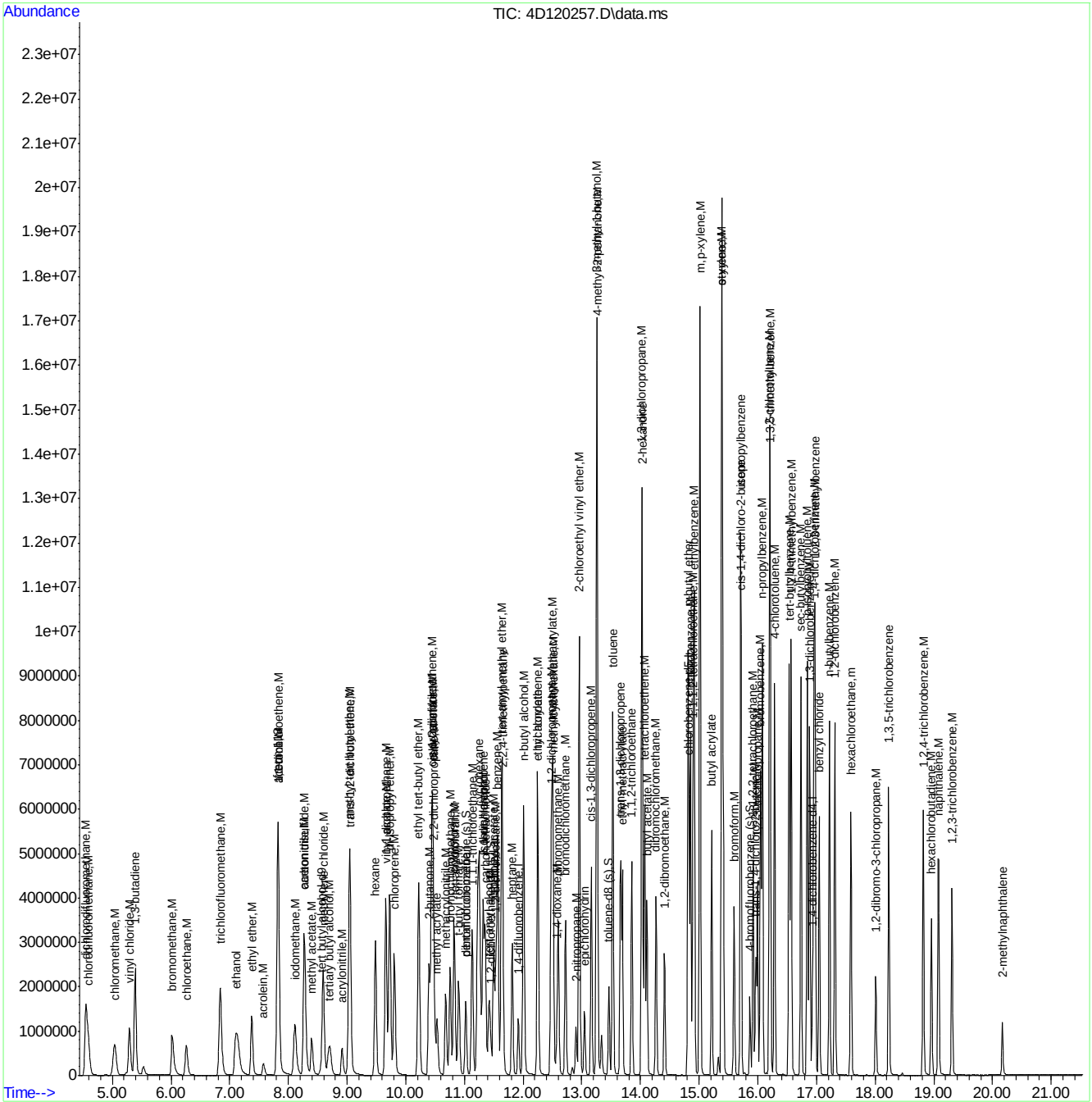
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 90) o-xylene | 15.389 | 106 | 2438775 | 211.04 | ug/L | 99 |
| 91) styrene | 15.389 | 104 | 4302956 | 220.89 | ug/L | 98 |
| 92) bromoform | 15.594 | 173 | 1567906 | 231.73 | ug/L | 99 |
| 93) butyl acrylate | 15.216 | 55 | 3003151 | 228.76 | ug/L | 99 |
| 94) isopropylbenzene | 15.709 | 105 | 6076979 | 211.73 | ug/L | 99 |
| 95) cis-1,4-dichloro-2-butene | 15.715 | 88 | 626164 | 210.24 | ug/L | 99 |
| 98) bromobenzene | 16.045 | 156 | 1823363 | 212.14 | ug/L | 86 |
| 99) 1,1,2,2-tetrachloroethane | 15.919 | 83 | 2017378 | 214.82 | ug/L | 100 |
| 100) trans-1,4-dichloro-2-b... | 15.961 | 53 | 455776 | 251.35 | ug/L | 93 |
| 101) 1,2,3-trichloropropane | 15.992 | 110 | 594335 | 210.10 | ug/L | 100 |
| 102) n-propylbenzene | 16.076 | 91 | 6611939 | 210.57 | ug/L | 99 |
| 103) 2-chlorotoluene | 16.202 | 126 | 1551486 | 214.88 | ug/L | 97 |
| 104) 4-chlorotoluene | 16.286 | 91 | 4321114 | 210.47 | ug/L | 99 |
| 105) 1,3,5-trimethylbenzene | 16.213 | 105 | 4789955 | 215.72 | ug/L | 100 |
| 106) tert-butylbenzene | 16.538 | 134 | 977825 | 222.78 | ug/L | 97 |
| 107) 1,2,4-trimethylbenzene | 16.569 | 105 | 4761496 | 213.14 | ug/L | 100 |
| 108) sec-butylbenzene | 16.732 | 105 | 5627946 | 221.51 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 16.884 | 146 | 3019790 | 211.99 | ug/L | 99 |
| 110) p-isopropyltoluene | 16.842 | 119 | 4769296 | 227.74 | ug/L | 99 |
| 111) 1,4-dichlorobenzene | 16.957 | 146 | 3140513 | 209.00 | ug/L | 98 |
| 112) 1,2,3-trimethylbenzene | 16.973 | 105 | 4765974 | 217.03 | ug/L | 98 |
| 113) benzyl chloride | 17.046 | 91 | 3588799 | 226.91 | ug/L | 100 |
| 114) 1,2-dichlorobenzene | 17.314 | 146 | 2966103 | 220.87 | ug/L | 99 |
| 115) n-butylbenzene | 17.219 | 92 | 2182938 | 226.04 | ug/L | 100 |
| 116) 1,2-dibromo-3-chloropr... | 18.011 | 157 | 582946 | 227.17 | ug/L | 99 |
| 117) 1,3,5-trichlorobenzene | 18.231 | 180 | 1814426 | 229.98 | ug/L | 99 |
| 118) 1,2,4-trichlorobenzene | 18.824 | 180 | 1489568 | 227.51 | ug/L | 99 |
| 119) hexachlorobutadiene | 18.960 | 225 | 670764 | 226.52 | ug/L | 99 |
| 120) naphthalene | 19.081 | 128 | 3629488 | 195.10 | ug/L | 100 |
| 121) 1,2,3-trichlorobenzene | 19.306 | 180 | 1185184 | 220.79 | ug/L | 98 |
| 122) hexachloroethane | 17.592 | 201 | 963977 | 231.23 | ug/L | 98 |
| 123) 2-methylnaphthalene | 20.171 | 142 | 555859 | 103.49 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120257.D
Acq On : 14 Aug 2022 12:53 am
Operator : PrashanS
Sample : IC5341-200
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 19 12:33:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120260.D
Acq On : 14 Aug 2022 2:18 am
Operator : PrashanS
Sample : ICV5341-50
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 18 15:44:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 8.532 | 65 | 577569 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 11.022 | 168 | 874487 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 11.919 | 114 | 1125169 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 14.823 | 117 | 1097217 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.931 | 152 | 483925 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 11.022 | 113 | 409012 | 49.35 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.70% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.447 | 65 | 432475 | 49.96 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.92% | | | |
| 74) toluene-d8 (s) | 13.460 | 98 | 1289918 | 48.78 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.56% | | | |
| 97) 4-bromofluorobenzene (s) | 15.867 | 95 | 500889 | 50.68 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.36% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) tertiary butyl alcohol | 8.663 | 59 | 431494 | 261.35 | ug/L | 98 |
| 3) ethanol | 7.069 | 45 | 856720 | 5375.75 | ug/L | 98 |
| 4) 1,4-dioxane | 12.574 | 88 | 182930 | 1255.03 | ug/L | 98 |
| 7) dichlorodifluoromethane | 4.547 | 85 | 605556 | 54.16 | ug/L | 100 |
| 8) chloromethane | 5.040 | 50 | 461587 | 48.82 | ug/L | 98 |
| 9) vinyl chloride | 5.291 | 62 | 481521 | 51.88 | ug/L | 99 |
| 10) 1,3-butadiene | 5.391 | 54 | 486537 | 57.52 | ug/L | 100 |
| 11) bromomethane | 6.057 | 94 | 314361 | 56.45 | ug/L | 98 |
| 12) chloroethane | 6.288 | 64 | 275845 | 56.55 | ug/L | 99 |
| 13) trichlorofluoromethane | 6.854 | 101 | 709576 | 54.04 | ug/L | 100 |
| 14) ethyl ether | 7.378 | 74 | 214425 | 54.50 | ug/L | 98 |
| 15) acrolein | 7.577 | 56 | 95244 | 57.57 | ug/L | 100 |
| 16) freon 113 | 7.829 | 151 | 319079 | 51.30 | ug/L | 98 |
| 17) 1,1-dichloroethene | 7.834 | 96 | 329363 | 47.76 | ug/L | 98 |
| 18) acetone | 7.824 | 58 | 185741 | 229.72 | ug/L | 99 |
| 20) iodomethane | 8.117 | 142 | 443880 | 38.06 | ug/L | 99 |
| 21) carbon disulfide | 8.280 | 76 | 966471 | 50.02 | ug/L | 99 |
| 22) methylene chloride | 8.595 | 84 | 376680 | 50.93 | ug/L | 98 |
| 23) methyl acetate | 8.401 | 43 | 406266 | 59.32 | ug/L | 99 |
| 24) methyl tert butyl ether | 9.035 | 73 | 1130893 | 52.69 | ug/L | 99 |
| 25) trans-1,2-dichloroethene | 9.061 | 96 | 360237 | 47.43 | ug/L | 98 |
| 26) di-isopropyl ether | 9.722 | 45 | 1130567 | 49.67 | ug/L | 100 |
| 27) 2-butanone | 10.393 | 72 | 268401 | 229.62 | ug/L | 99 |
| 28) 1,1-dichloroethane | 9.659 | 63 | 653932 | 52.03 | ug/L | 98 |
| 29) chloroprene | 9.811 | 53 | 550866 | 58.05 | ug/L | 98 |
| 31) hexane | 9.486 | 56 | 248742 | 56.65 | ug/L | 97 |
| 32) vinyl acetate | 9.664 | 86 | 75789 | 48.00 | ug/L | 98 |
| 33) ethyl tert-butyl ether | 10.220 | 59 | 1099791 | 49.53 | ug/L | 100 |
| 34) ethyl acetate | 10.456 | 70 | 63028 | 55.86 | ug/L | 96 |
| 35) 2,2-dichloropropane | 10.477 | 77 | 542072 | 48.12 | ug/L | 100 |
| 36) cis-1,2-dichloroethene | 10.445 | 96 | 402087 | 47.79 | ug/L | 99 |
| 37) methyl acrylate | 10.534 | 55 | 422246 | 54.11 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120260.D
Acq On : 14 Aug 2022 2:18 am
Operator : PrashanS
Sample : ICV5341-50
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 18 15:44:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 38) propionitrile | 10.445 | 54 | 739779 | 521.35 | ug/L | 99 |
| 39) bromochloromethane | 10.755 | 128 | 221382 | 51.63 | ug/L | 97 |
| 40) tetrahydrofuran | 10.833 | 72 | 76804 | 49.73 | ug/L | 96 |
| 41) chloroform | 10.823 | 85 | 452423 | 47.49 | ug/L | 99 |
| 42) t-butyl formate | 10.901 | 59 | 221773 | 34.06 | ug/L | 97 |
| 44) methacrylonitrile | 10.676 | 67 | 194199 | 54.80 | ug/L | 96 |
| 45) 1,1,1-trichloroethane | 11.132 | 97 | 625839 | 51.50 | ug/L | 99 |
| 46) cyclohexane | 11.248 | 84 | 494404 | 52.24 | ug/L | 91 |
| 47) 1,1-dichloropropene | 11.321 | 75 | 485035 | 51.02 | ug/L | 98 |
| 48) isobutyl alcohol | 11.321 | 74 | 34762 | 494.29 | ug/L | 82 |
| 49) carbon tetrachloride | 11.358 | 117 | 587579 | 50.92 | ug/L | 99 |
| 50) tert amyl alcohol | 11.400 | 55 | 133814 | 265.00 | ug/L | 97 |
| 53) n-butyl alcohol | 11.987 | 56 | 931581 | 2717.03 | ug/L | 99 |
| 54) 2,2,4-trimethylpentane | 11.651 | 57 | 805755 | 49.82 | ug/L | 99 |
| 55) benzene | 11.567 | 78 | 1332940 | 51.52 | ug/L | 99 |
| 56) tert-amyl methyl ether | 11.635 | 87 | 250176 | 49.85 | ug/L | 96 |
| 57) heptane | 11.814 | 71 | 196988 | 54.01 | ug/L | 97 |
| 58) isopropyl acetate | 11.499 | 87 | 98533 | 53.34 | ug/L | 99 |
| 59) 1,2-dichloroethane | 11.536 | 62 | 542773 | 49.00 | ug/L | 99 |
| 60) trichloroethene | 12.254 | 130 | 416173 | 53.26 | ug/L | 99 |
| 61) ethyl acrylate | 12.244 | 55 | 564497 | 52.81 | ug/L | 99 |
| 62) 2-nitropropane | 12.904 | 43 | 200524 | 58.52 | ug/L | 99 |
| 63) 2-chloroethyl vinyl ether | 12.957 | 63 | 969519 | 270.07 | ug/L | 99 |
| 64) methyl methacrylate | 12.495 | 100 | 121925 | 54.83 | ug/L | 95 |
| 65) 1,2-dichloropropane | 12.474 | 63 | 359114 | 51.38 | ug/L | 100 |
| 66) dibromomethane | 12.600 | 93 | 275758 | 50.10 | ug/L | 98 |
| 67) methylcyclohexane | 12.511 | 83 | 508254 | 53.48 | ug/L | 100 |
| 68) bromodichloromethane | 12.726 | 83 | 543800 | 52.11 | ug/L | 99 |
| 69) epichlorohydrin | 13.041 | 57 | 263171 | 268.51 | ug/L | 99 |
| 70) cis-1,3-dichloropropene | 13.161 | 75 | 591713 | 52.46 | ug/L | 98 |
| 71) 4-methyl-2-pentanone | 13.256 | 58 | 744632 | 212.25 | ug/L | 99 |
| 72) 3-methyl-1-butanol | 13.245 | 70 | 363242 | 1143.84 | ug/L | 99 |
| 75) toluene | 13.528 | 92 | 837061 | 49.57 | ug/L | 100 |
| 76) trans-1,3-dichloropropene | 13.659 | 75 | 557971 | 52.65 | ug/L | 99 |
| 77) ethyl methacrylate | 13.691 | 69 | 507724 | 53.46 | ug/L | 98 |
| 78) 1,1,2-trichloroethane | 13.853 | 83 | 296003 | 52.29 | ug/L | 99 |
| 80) 1,3-dichloropropane | 14.026 | 76 | 552473 | 51.65 | ug/L | 96 |
| 81) 2-hexanone | 14.026 | 58 | 775772 | 217.56 | ug/L | 99 |
| 82) butyl acetate | 14.110 | 56 | 270195 | 54.32 | ug/L | 98 |
| 83) dibromochloromethane | 14.262 | 129 | 491181 | 53.02 | ug/L | 99 |
| 84) 1,2-dibromoethane | 14.409 | 107 | 405466 | 53.03 | ug/L | 100 |
| 85) n-butyl ether | 14.813 | 57 | 1422882 | 52.09 | ug/L | 99 |
| 86) chlorobenzene | 14.849 | 112 | 990420 | 50.43 | ug/L | 99 |
| 87) 1,1,1,2-tetrachloroethane | 14.897 | 131 | 407087 | 51.65 | ug/L | 99 |
| 88) ethylbenzene | 14.918 | 91 | 1592400 | 50.78 | ug/L | 100 |
| 89) m,p-xylene | 15.012 | 106 | 1240433 | 102.19 | ug/L | 99 |
| 90) o-xylene | 15.390 | 106 | 625542 | 51.43 | ug/L | 97 |
| 91) styrene | 15.390 | 104 | 1090536 | 53.19 | ug/L | 99 |
| 92) bromoform | 15.594 | 173 | 388024 | 54.49 | ug/L | 98 |
| 93) butyl acrylate | 15.216 | 55 | 760115 | 55.01 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120260.D
Acq On : 14 Aug 2022 2:18 am
Operator : PrashanS
Sample : ICV5341-50
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 18 15:44:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

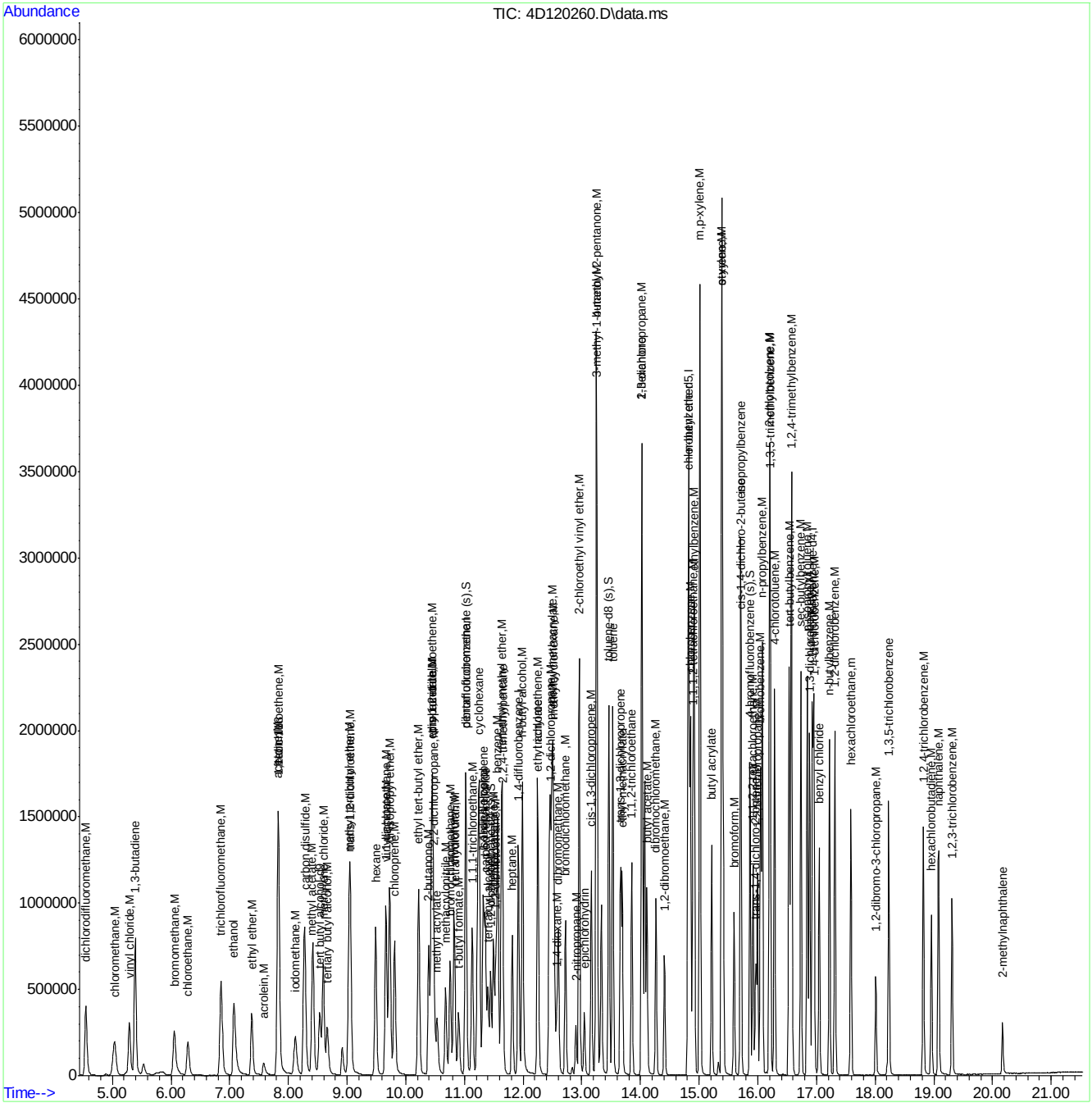
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 94) isopropylbenzene | 15.709 | 105 | 1577309 | 52.21 | ug/L | 100 |
| 95) cis-1,4-dichloro-2-butene | 15.715 | 88 | 143940 | 47.95 | ug/L | 99 |
| 98) bromobenzene | 16.045 | 156 | 475205 | 53.35 | ug/L | 87 |
| 99) 1,1,2,2-tetrachloroethane | 15.919 | 83 | 517132 | 53.13 | ug/L | 99 |
| 100) trans-1,4-dichloro-2-b... | 15.961 | 53 | 114192 | 60.77 | ug/L | 92 |
| 101) 1,2,3-trichloropropane | 15.992 | 110 | 157558 | 53.74 | ug/L | 100 |
| 102) n-propylbenzene | 16.076 | 91 | 1734300 | 53.30 | ug/L | 99 |
| 103) 2-chlorotoluene | 16.202 | 126 | 396442 | 52.98 | ug/L | 98 |
| 104) 4-chlorotoluene | 16.286 | 91 | 1096635 | 51.54 | ug/L | 99 |
| 105) 1,3,5-trimethylbenzene | 16.213 | 105 | 1221594 | 53.09 | ug/L | 100 |
| 106) tert-butylbenzene | 16.538 | 134 | 249014 | 54.74 | ug/L | 96 |
| 107) 1,2,4-trimethylbenzene | 16.569 | 105 | 1232303 | 53.23 | ug/L | 100 |
| 108) sec-butylbenzene | 16.732 | 105 | 1423214 | 54.05 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 16.884 | 146 | 777958 | 52.70 | ug/L | 99 |
| 110) p-isopropyltoluene | 16.842 | 119 | 1192130 | 54.93 | ug/L | 100 |
| 111) 1,4-dichlorobenzene | 16.957 | 146 | 787148 | 50.55 | ug/L | 98 |
| 113) benzyl chloride | 17.046 | 91 | 835368 | 50.97 | ug/L | 100 |
| 114) 1,2-dichlorobenzene | 17.314 | 146 | 754224 | 54.19 | ug/L | 100 |
| 115) n-butylbenzene | 17.219 | 92 | 530917 | 53.05 | ug/L | 98 |
| 116) 1,2-dibromo-3-chloropr... | 18.011 | 157 | 145227 | 54.61 | ug/L | 98 |
| 117) 1,3,5-trichlorobenzene | 18.231 | 180 | 445145 | 54.44 | ug/L | 98 |
| 118) 1,2,4-trichlorobenzene | 18.824 | 180 | 362845 | 53.48 | ug/L | 99 |
| 119) hexachlorobutadiene | 18.960 | 225 | 175718 | 57.26 | ug/L | 98 |
| 120) naphthalene | 19.081 | 128 | 981575 | 50.91 | ug/L | 100 |
| 121) 1,2,3-trichlorobenzene | 19.311 | 180 | 298252 | 53.61 | ug/L | 99 |
| 122) hexachloroethane | 17.586 | 201 | 239377 | 55.41 | ug/L | 99 |
| 123) 2-methylnaphthalene | 20.171 | 142 | 147372 | 26.48 | ug/L | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120260.D
Acq On : 14 Aug 2022 2:18 am
Operator : PrashanS
Sample : ICV5341-50
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 18 15:44:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120261.D
Acq On : 14 Aug 2022 2:46 am
Operator : PrashanS
Sample : ICV5341-50
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 18 15:45:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration

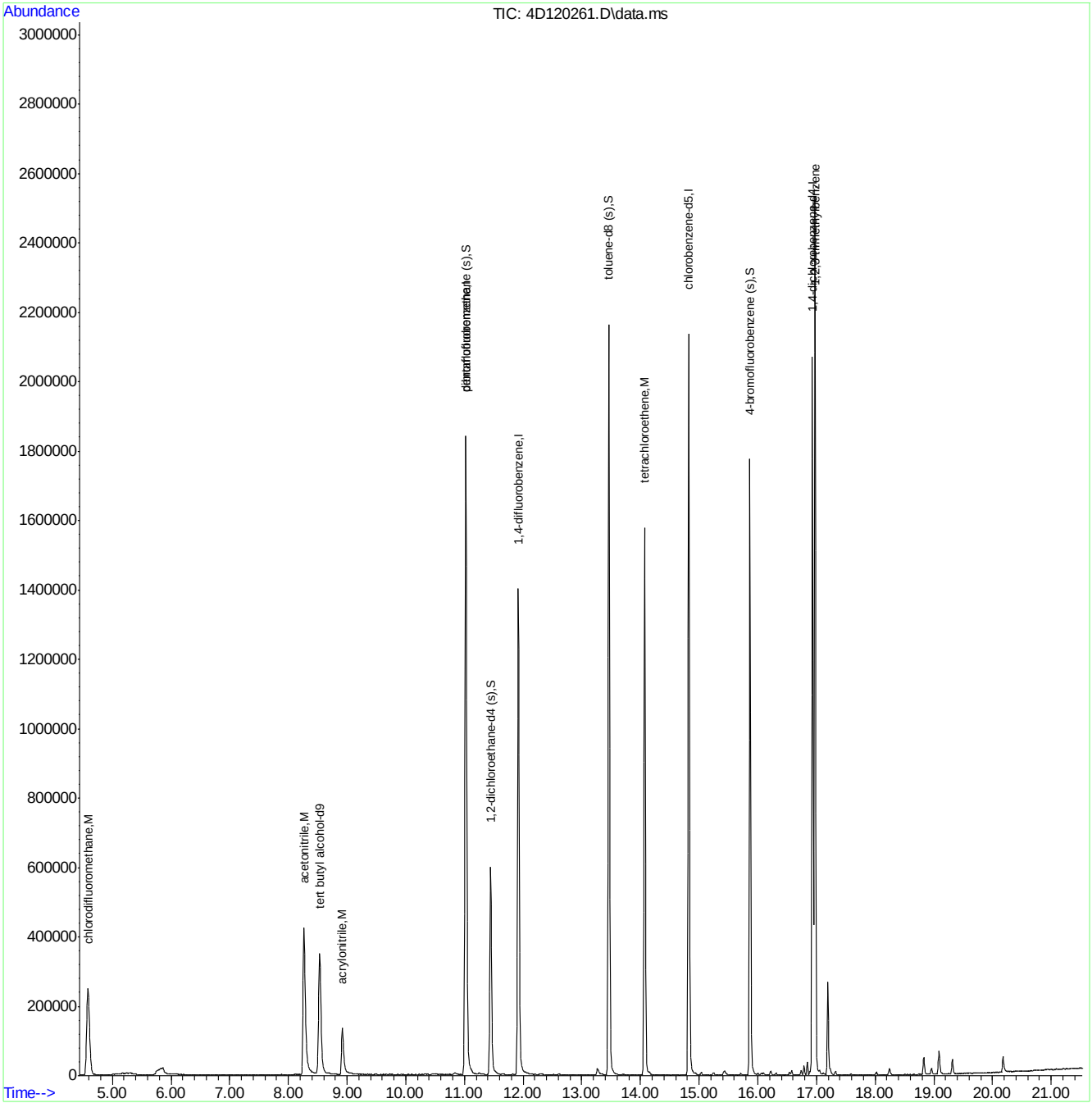
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 8.532 | 65 | 576396 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 11.022 | 168 | 929926 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 11.919 | 114 | 1197308 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 14.823 | 117 | 1104478 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.931 | 152 | 499197 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 11.022 | 113 | 433589 | 49.20 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.40% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.447 | 65 | 465975 | 50.58 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.16% | | | |
| 74) toluene-d8 (s) | 13.460 | 98 | 1366096 | 51.32 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.64% | | | |
| 97) 4-bromofluorobenzene (s) | 15.867 | 95 | 513309 | 50.35 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.70% | | | |
| Target Compounds | | | | | | Qvalue |
| 6) chlorodifluoromethane | 4.584 | 51 | 594002 | 58.09 | ug/L | 97 |
| 19) acetonitrile | 8.264 | 41 | 670169 | 454.12 | ug/L | 99 |
| 30) acrylonitrile | 8.920 | 53 | 147632 | 45.50 | ug/L | 99 |
| 79) tetrachloroethene | 14.074 | 164 | 330444 | 48.10 | ug/L | 99 |
| 112) 1,2,3-trimethylbenzene | 16.973 | 105 | 1296313 | 55.22 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D5341\
Data File : 4D120261.D
Acq On : 14 Aug 2022 2:46 am
Operator : PrashanS
Sample : ICV5341-50
Misc : MS61262,V4D5341,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 18 15:45:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Aug 16 11:16:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121696.d
Acq On : 29 Sep 2022 8:44 pm
Operator : taylors
Sample : cc5341-50 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 07:21:56 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 8.536 | 65 | 706382 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 11.021 | 168 | 764135 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 11.917 | 114 | 1106962 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 14.822 | 117 | 1099836 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 16.930 | 152 | 495177 | 50.00 | ug/L | | 0.00 |
| 124) pentafluorobenzene(a) | 11.021 | 168 | 764135 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 11.021 | 113 | 385270 | 53.20 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.40% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 11.446 | 65 | 400173 | 46.99 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 93.98% | | | | |
| 74) toluene-d8 (s) | 13.459 | 98 | 1294906 | 48.85 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.70% | | | | |
| 97) 4-bromofluorobenzene (s) | 15.865 | 95 | 489567 | 48.41 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.82% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) tertiary butyl alcohol | 8.662 | 59 | 534031 | 264.47 | ug/L | | 97 |
| 3) ethanol | 7.068 | 45 | 1239894 | 6361.35 | ug/L | | 97 |
| 4) 1,4-dioxane | 12.573 | 88 | 214315 | 1202.22 | ug/L | | 93 |
| 6) chlorodifluoromethane | 4.593 | 51 | 481583 | 57.31 | ug/L | | 94 |
| 7) dichlorodifluoromethane | 4.540 | 85 | 403829 | 41.33 | ug/L | | 99 |
| 8) chloromethane | 5.039 | 50 | 318115 | 38.50 | ug/L | | 98 |
| 9) vinyl chloride | 5.280 | 62 | 306582 | 37.80 | ug/L | | 97 |
| 10) 1,3-butadiene | 5.379 | 54 | 270919 | 36.66 | ug/L | | 100 |
| 11) bromomethane | 6.045 | 94 | 180877 | 37.17 | ug/L | | 99 |
| 12) chloroethane | 6.281 | 64 | 194410 | 45.61 | ug/L | | 96 |
| 13) trichlorofluoromethane | 6.847 | 101 | 510023 | 44.45 | ug/L | | 100 |
| 14) ethyl ether | 7.372 | 74 | 183301 | 53.32 | ug/L | | 82 |
| 15) acrolein | 7.571 | 56 | 96919 | 67.04 | ug/L | | 94 |
| 16) freon 113 | 7.823 | 151 | 277064 | 50.98 | ug/L | | 98 |
| 17) 1,1-dichloroethene | 7.828 | 96 | 283667 | 47.08 | ug/L | | 97 |
| 18) acetone | 7.823 | 58 | 224436 | 317.66 | ug/L | # | 80 |
| 19) acetonitrile | 8.258 | 41 | 998135 | 823.11 | ug/L | | 98 |
| 20) iodomethane | 8.111 | 142 | 258265 | 25.87 | ug/L | | 97 |
| 21) carbon disulfide | 8.274 | 76 | 813366 | 48.18 | ug/L | | 99 |
| 22) methylene chloride | 8.593 | 84 | 326663 | 50.54 | ug/L | | 85 |
| 23) methyl acetate | 8.394 | 43 | 474621 | 79.31 | ug/L | | 93 |
| 24) methyl tert butyl ether | 9.034 | 73 | 979833 | 52.24 | ug/L | | 93 |
| 25) trans-1,2-dichloroethene | 9.055 | 96 | 312264 | 47.05 | ug/L | | 92 |
| 26) di-isopropyl ether | 9.721 | 45 | 1261529 | 63.43 | ug/L | | 94 |
| 27) 2-butanone | 10.392 | 72 | 273555 | 267.83 | ug/L | # | 61 |
| 28) 1,1-dichloroethane | 9.658 | 63 | 590827 | 53.79 | ug/L | | 96 |
| 29) chloroprene | 9.805 | 53 | 501318 | 60.46 | ug/L | | 92 |
| 30) acrylonitrile | 8.913 | 53 | 206542 | 77.47 | ug/L | | 99 |
| 31) hexane | 9.485 | 56 | 229852 | 59.90 | ug/L | | 91 |
| 32) vinyl acetate | 9.663 | 86 | 84463 | 61.22 | ug/L | # | 63 |
| 33) ethyl tert-butyl ether | 10.219 | 59 | 1118211 | 57.63 | ug/L | | 97 |
| 34) ethyl acetate | 10.455 | 70 | 59859 | 60.71 | ug/L | # | 80 |
| 35) 2,2-dichloropropane | 10.470 | 77 | 439072 | 44.60 | ug/L | | 94 |
| 36) cis-1,2-dichloroethene | 10.439 | 96 | 354859 | 48.27 | ug/L | | 95 |
| 37) methyl acrylate | 10.533 | 55 | 490449 | 71.92 | ug/L | | 94 |
| 38) propionitrile | 10.439 | 54 | 1019915 | 822.57 | ug/L | | 99 |
| 39) bromochloromethane | 10.754 | 128 | 203728 | 54.37 | ug/L | | 91 |
| 40) tetrahydrofuran | 10.832 | 72 | 79501 | 58.91 | ug/L | # | 69 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121696.d
Acq On : 29 Sep 2022 8:44 pm
Operator : taylors
Sample : cc5341-50 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 07:21:56 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) chloroform | 10.822 | 85 | 383137 | 46.02 | ug/L | | 96 |
| 42) t-butyl formate | 10.900 | 59 | 364792 | 64.12 | ug/L | | 91 |
| 44) methacrylonitrile | 10.675 | 67 | 195239 | 63.06 | ug/L | | 85 |
| 45) 1,1,1-trichloroethane | 11.131 | 97 | 521036 | 49.07 | ug/L | | 98 |
| 46) cyclohexane | 11.246 | 84 | 344387 | 41.65 | ug/L | # | 55 |
| 47) 1,1-dichloropropene | 11.320 | 75 | 417509 | 50.26 | ug/L | | 97 |
| 48) isobutyl alcohol | 11.320 | 74 | 29220 | 475.49 | ug/L | | 62 |
| 49) carbon tetrachloride | 11.351 | 117 | 493087 | 48.90 | ug/L | | 100 |
| 50) tert amyl alcohol | 11.398 | 55 | 188945 | 428.21 | ug/L | | 94 |
| 53) n-butyl alcohol | 11.986 | 56 | 1457367 | 4320.44 | ug/L | | 96 |
| 54) 2,2,4-trimethylpentane | 11.650 | 57 | 781184 | 49.09 | ug/L | | 99 |
| 55) benzene | 11.566 | 78 | 1165573 | 45.80 | ug/L | | 99 |
| 56) tert-amyl methyl ether | 11.634 | 87 | 237299 | 48.06 | ug/L | | 94 |
| 57) heptane | 11.813 | 71 | 148283 | 41.33 | ug/L | | 88 |
| 58) isopropyl acetate | 11.493 | 87 | 97485 | 53.64 | ug/L | # | 62 |
| 59) 1,2-dichloroethane | 11.535 | 62 | 506304 | 46.46 | ug/L | | 95 |
| 60) trichloroethene | 12.253 | 130 | 380171 | 49.45 | ug/L | | 98 |
| 61) ethyl acrylate | 12.243 | 55 | 678093 | 64.48 | ug/L | | 96 |
| 62) 2-nitropropane | 12.903 | 43 | 212750 | 63.11 | ug/L | | 96 |
| 63) 2-chloroethyl vinyl ether | 12.956 | 63 | 1360492 | 385.22 | ug/L | | 98 |
| 64) methyl methacrylate | 12.494 | 100 | 121315 | 55.46 | ug/L | # | 84 |
| 65) 1,2-dichloropropane | 12.473 | 63 | 355791 | 51.74 | ug/L | | 99 |
| 66) dibromomethane | 12.599 | 93 | 252369 | 46.61 | ug/L | | 98 |
| 67) methylcyclohexane | 12.510 | 83 | 444434 | 47.53 | ug/L | | 92 |
| 68) bromodichloromethane | 12.720 | 83 | 487237 | 47.45 | ug/L | | 97 |
| 69) epichlorohydrin | 13.039 | 57 | 360632 | 374.00 | ug/L | | 98 |
| 70) cis-1,3-dichloropropene | 13.160 | 75 | 551349 | 49.69 | ug/L | | 99 |
| 71) 4-methyl-2-pentanone | 13.254 | 58 | 901136 | 261.09 | ug/L | # | 84 |
| 72) 3-methyl-1-butanol | 13.244 | 70 | 471069 | 1507.79 | ug/L | # | 75 |
| 75) toluene | 13.527 | 92 | 754798 | 44.59 | ug/L | | 97 |
| 76) trans-1,3-dichloropropene | 13.658 | 75 | 522242 | 49.16 | ug/L | | 99 |
| 77) ethyl methacrylate | 13.690 | 69 | 492120 | 51.69 | ug/L | | 88 |
| 78) 1,1,2-trichloroethane | 13.852 | 83 | 291274 | 51.33 | ug/L | | 98 |
| 79) tetrachloroethene | 14.072 | 164 | 285362 | 41.71 | ug/L | | 94 |
| 80) 1,3-dichloropropane | 14.020 | 76 | 528156 | 49.25 | ug/L | | 80 |
| 81) 2-hexanone | 14.025 | 58 | 1004796 | 281.11 | ug/L | | 93 |
| 82) butyl acetate | 14.109 | 56 | 328222 | 65.83 | ug/L | | 98 |
| 83) dibromochloromethane | 14.261 | 129 | 466240 | 50.20 | ug/L | | 98 |
| 84) 1,2-dibromoethane | 14.408 | 107 | 408147 | 53.25 | ug/L | | 97 |
| 85) n-butyl ether | 14.812 | 57 | 1503914 | 54.92 | ug/L | | 95 |
| 86) chlorobenzene | 14.848 | 112 | 926807 | 47.08 | ug/L | | 95 |
| 87) 1,1,1,2-tetrachloroethane | 14.896 | 131 | 379708 | 48.06 | ug/L | | 98 |
| 88) ethylbenzene | 14.916 | 91 | 1421233 | 45.21 | ug/L | | 100 |
| 89) m,p-xylene | 15.011 | 106 | 1117470 | 91.85 | ug/L | | 94 |
| 90) o-xylene | 15.388 | 106 | 565696 | 46.40 | ug/L | | 91 |
| 91) styrene | 15.388 | 104 | 983101 | 47.83 | ug/L | | 93 |
| 92) bromoform | 15.593 | 173 | 359768 | 50.40 | ug/L | | 98 |
| 93) butyl acrylate | 15.215 | 55 | 872112 | 62.96 | ug/L | | 96 |
| 94) isopropylbenzene | 15.703 | 105 | 1394443 | 46.05 | ug/L | | 97 |
| 95) cis-1,4-dichloro-2-butene | 15.713 | 88 | 147820 | 49.06 | ug/L | | 93 |
| 98) bromobenzene | 16.044 | 156 | 419155 | 45.99 | ug/L | | 89 |
| 99) 1,1,2,2-tetrachloroethane | 15.918 | 83 | 528778 | 53.10 | ug/L | | 98 |
| 100) trans-1,4-dichloro-2-b... | 15.960 | 53 | 128651 | 66.90 | ug/L | | 98 |
| 101) 1,2,3-trichloropropane | 15.991 | 110 | 153810 | 51.27 | ug/L | | 96 |
| 102) n-propylbenzene | 16.075 | 91 | 1536137 | 46.13 | ug/L | | 97 |
| 103) 2-chlorotoluene | 16.196 | 126 | 369485 | 48.26 | ug/L | | 93 |
| 104) 4-chlorotoluene | 16.285 | 91 | 972458 | 44.67 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121696.d
Acq On : 29 Sep 2022 8:44 pm
Operator : taylors
Sample : cc5341-50 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 07:21:56 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration

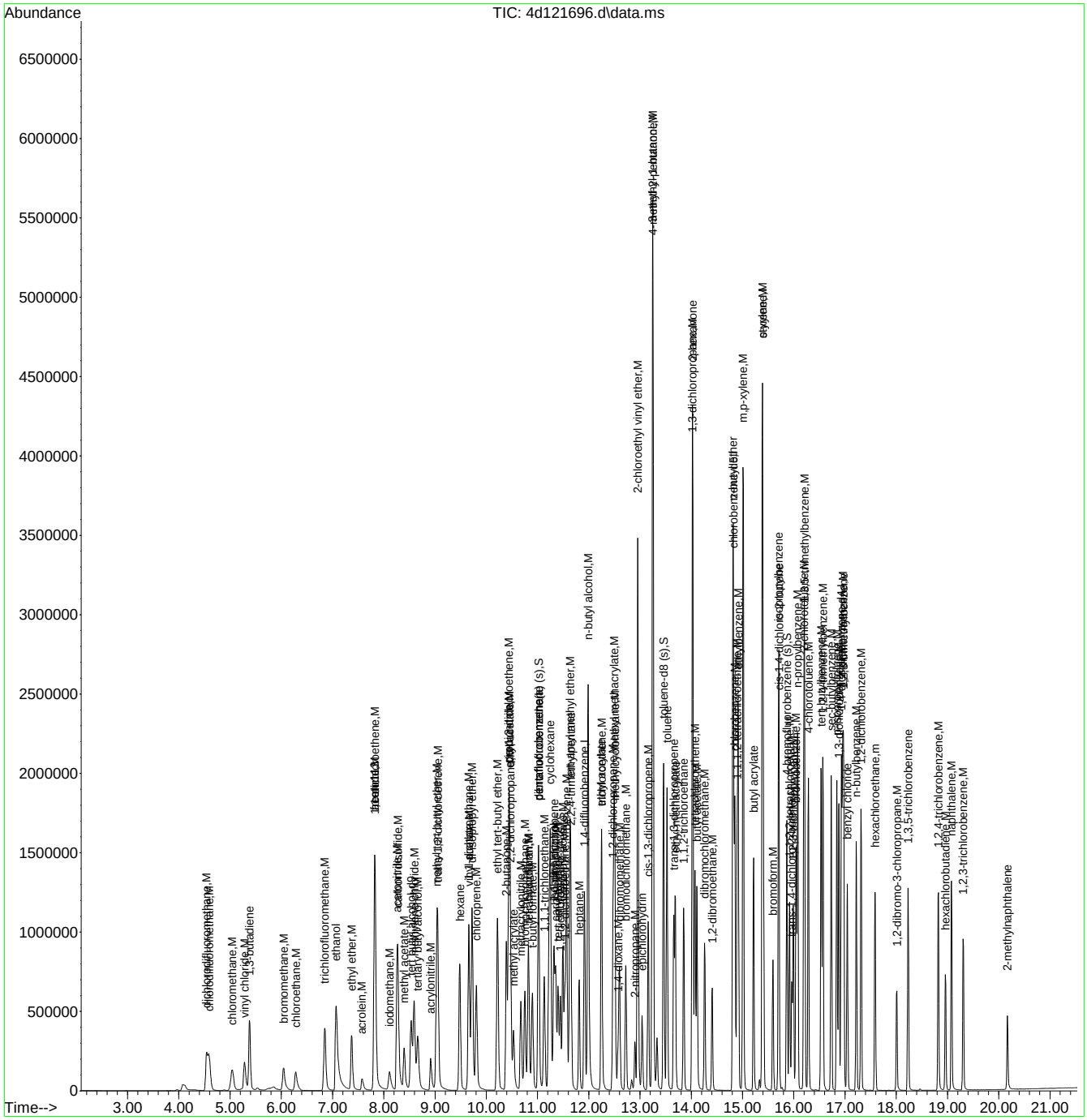
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 105) 1,3,5-trimethylbenzene | 16.212 | 105 | 1049446 | 44.57 | ug/L | 97 |
| 106) tert-butylbenzene | 16.537 | 134 | 222692 | 47.85 | ug/L | 95 |
| 107) 1,2,4-trimethylbenzene | 16.568 | 105 | 1034482 | 43.67 | ug/L | 97 |
| 108) sec-butylbenzene | 16.731 | 105 | 1258905 | 46.73 | ug/L | 98 |
| 109) 1,3-dichlorobenzene | 16.883 | 146 | 707766 | 46.85 | ug/L | 99 |
| 110) p-isopropyltoluene | 16.841 | 119 | 1064793 | 47.95 | ug/L | 97 |
| 111) 1,4-dichlorobenzene | 16.956 | 146 | 711118 | 44.63 | ug/L | 97 |
| 112) 1,2,3-trimethylbenzene | 16.972 | 105 | 1014209 | 43.55 | ug/L | 96 |
| 113) benzyl chloride | 17.045 | 91 | 826662 | 49.29 | ug/L | 97 |
| 114) 1,2-dichlorobenzene | 17.313 | 146 | 695378 | 48.83 | ug/L | 97 |
| 115) n-butylbenzene | 17.218 | 92 | 425714 | 41.57 | ug/L | 97 |
| 116) 1,2-dibromo-3-chloropr... | 18.010 | 157 | 168072 | 61.76 | ug/L | 96 |
| 117) 1,3,5-trichlorobenzene | 18.230 | 180 | 386000 | 46.14 | ug/L | 95 |
| 118) 1,2,4-trichlorobenzene | 18.823 | 180 | 326961 | 47.09 | ug/L | 96 |
| 119) hexachlorobutadiene | 18.959 | 225 | 133563 | 42.53 | ug/L | 97 |
| 120) naphthalene | 19.079 | 128 | 1007715 | 51.08 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 19.305 | 180 | 290369 | 51.01 | ug/L | 95 |
| 122) hexachloroethane | 17.585 | 201 | 188893 | 42.73 | ug/L | 97 |
| 123) 2-methylnaphthalene | 20.170 | 142 | 224741 | 39.46 | ug/L | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-01-22\v4d5406\
Data File : 4d121696.d
Acq On : 29 Sep 2022 8:44 pm
Operator : taylors
Sample : cc5341-50 Inst : MS4D
Misc : MS62508,V4D5406,5,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D5341.M
Quant Results File: M4D5341.RES
Quant Time: Sep 30 07:21:56 2022
Quant Title : SW846 8260C/D/ EPA 624.1, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Tue Sep 20 14:55:55 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 06/22/22 18:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342968.D
Acq On : 15 Jun 2022 4:25 pm
Operator : BridgetK
Sample : ic10355-0.2
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 17 18:01:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

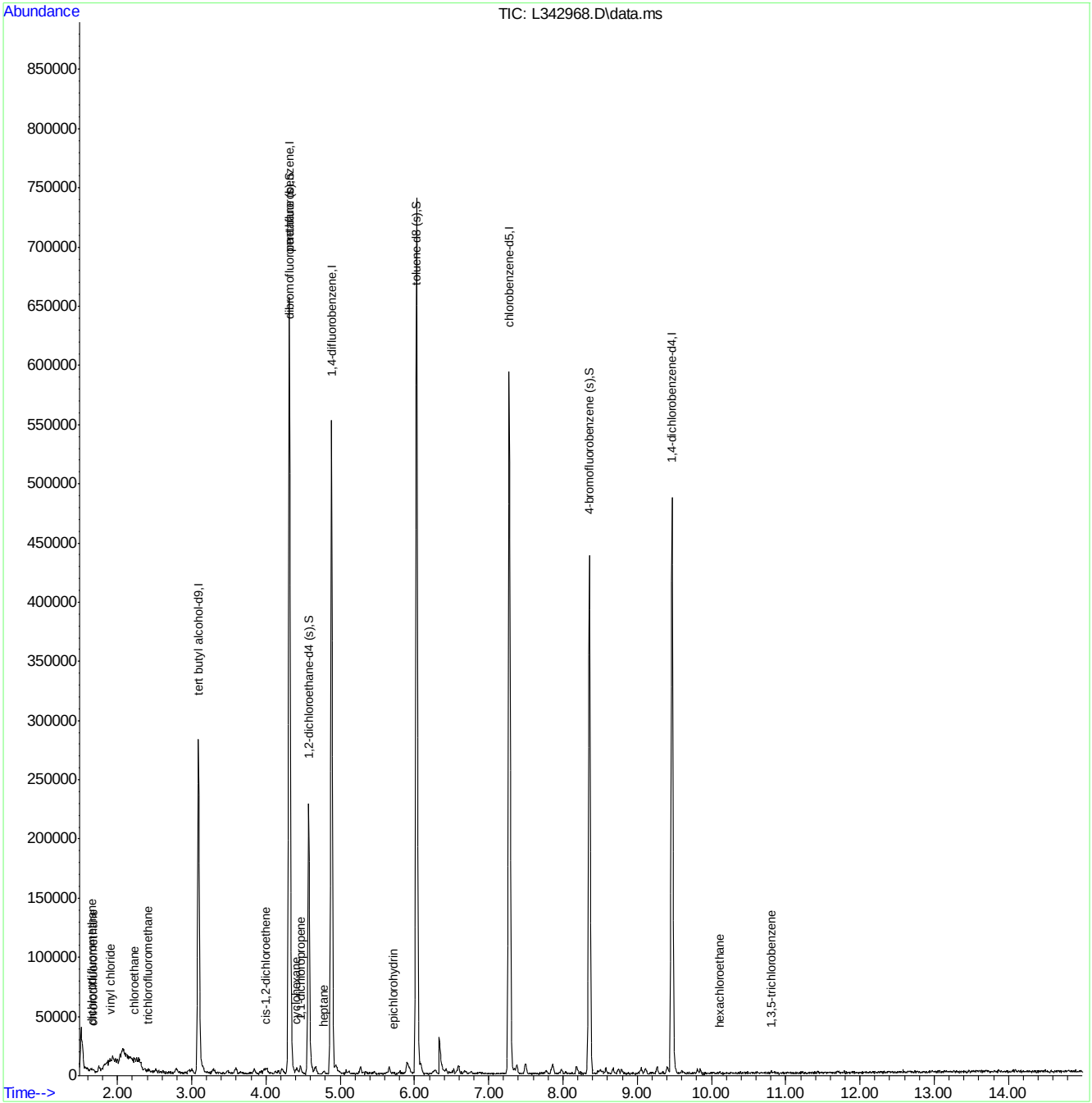
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.092 | 65 | 277572 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.314 | 168 | 263586 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.882 | 114 | 379866 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 328492 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.471 | 152 | 127404 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.321 | 113 | 116894 | 48.39 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.78% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.577 | 65 | 143797 | 53.06 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 106.12% | | | | |
| 73) toluene-d8 (s) | 6.028 | 98 | 470545 | 54.59 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 109.18% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.358 | 95 | 164910 | 50.16 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.32% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 6) chlorodifluoromethane | 1.677 | 51 | 669 | 0.23 | ug/L | # | 52 |
| 7) dichlorodifluoromethane | 1.657 | 85 | 1059m | 0.25 | ug/L | | |
| 9) vinyl chloride | 1.904 | 62 | 788 | 0.23 | ug/L | | 91 |
| 12) chloroethane | 2.232 | 64 | 464 | 0.24 | ug/L | # | 47 |
| 13) trichlorofluoromethane | 2.415 | 101 | 889 | 0.18 | ug/L | | 74 |
| 37) cis-1,2-dichloroethene | 3.997 | 96 | 661 | 0.23 | ug/L | # | 44 |
| 46) cyclohexane | 4.411 | 84 | 845 | 0.21 | ug/L | # | 78 |
| 47) 1,1-dichloropropene | 4.462 | 75 | 798 | 0.22 | ug/L | # | 62 |
| 57) heptane | 4.780 | 57 | 354 | 0.24 | ug/L | # | 5 |
| 69) epichlorohydrin | 5.717 | 57 | 1117 | 2.28 | ug/L | # | 59 |
| 115) 1,3,5-trichlorobenzene | 10.809 | 180 | 620 | 0.21 | ug/L | | 83 |
| 120) hexachloroethane | 10.110 | 119 | 381 | 0.22 | ug/L | # | 44 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342968.D
Acq On : 15 Jun 2022 4:25 pm
Operator : BridgetK
Sample : ic10355-0.2
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 17 18:01:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



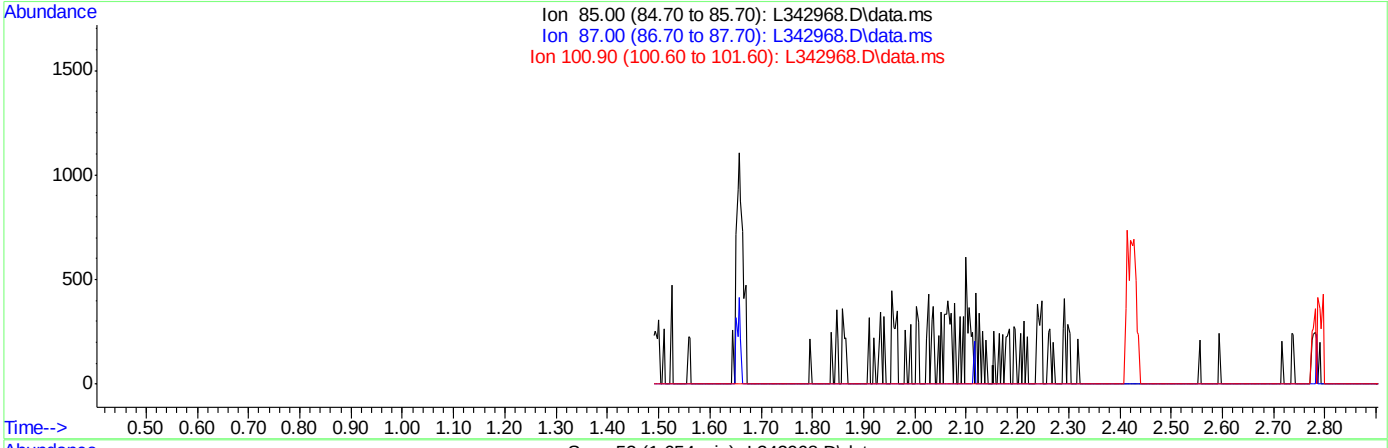
| | | | |
|---|---|---|---|
| **Sample Number:** | VL10355-IC10355 | **Method:** | SW846 8260D |
| **Lab FileID:** | L342968.D | **Analyst approved:** | 06/22/22 18:38 Kanya Veerawat |
| **Injection Time:** | 06/15/22 16:25 | **Supervisor approved:** | 06/22/22 18:38 Kanya Veerawat |

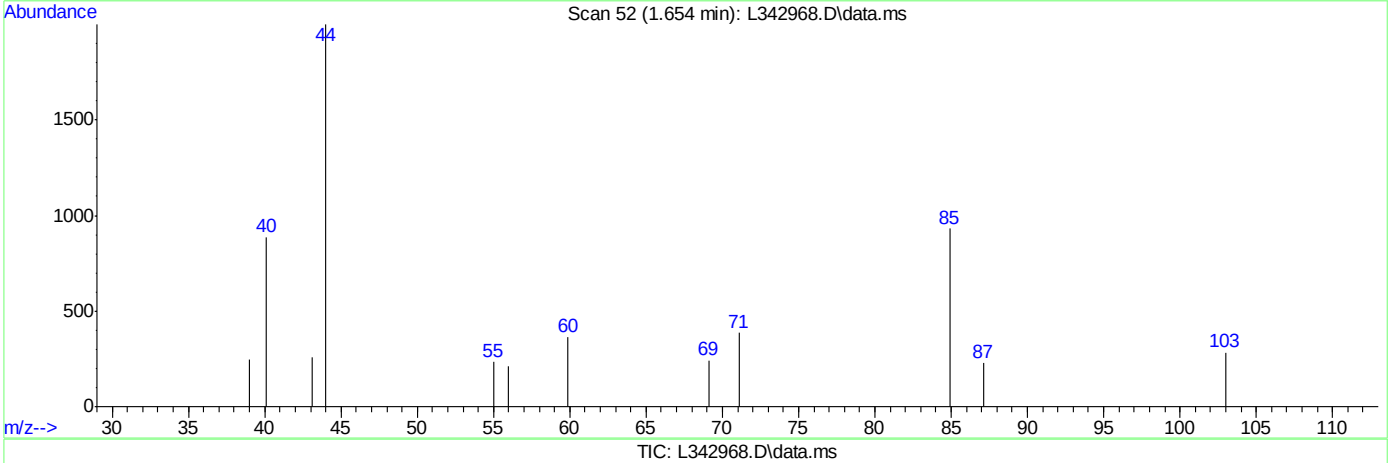
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.66 | Missed peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342968.D
Acq On : 15 Jun 2022 4:25 pm
Operator : BridgetK
Sample : ic10355-0.2
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 15:08:49 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration




TIC: L342968.D\data.ms

(7) dichlorodifluoromethane

1.654min 0.00ug/L d

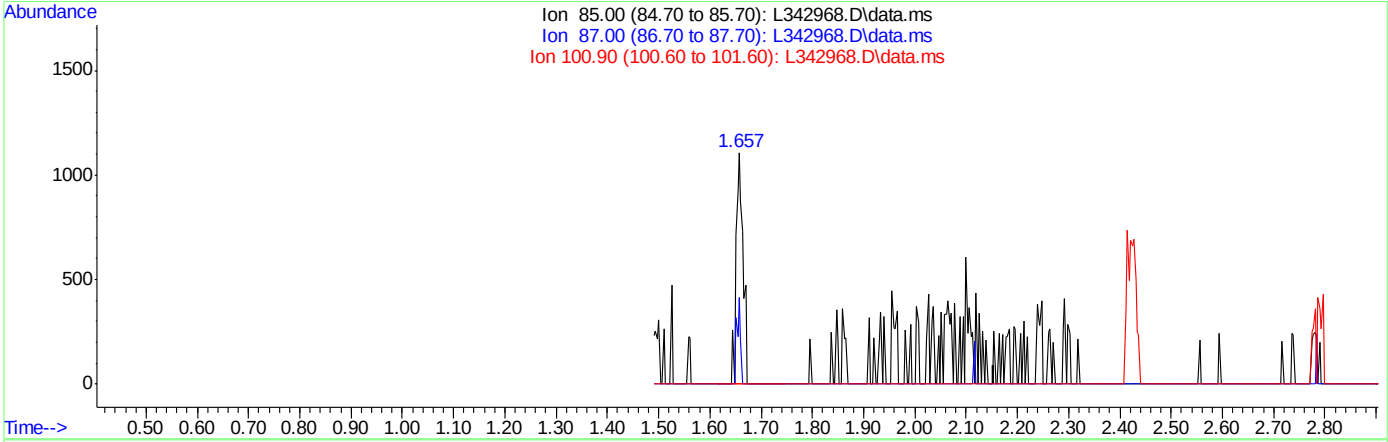
response 0

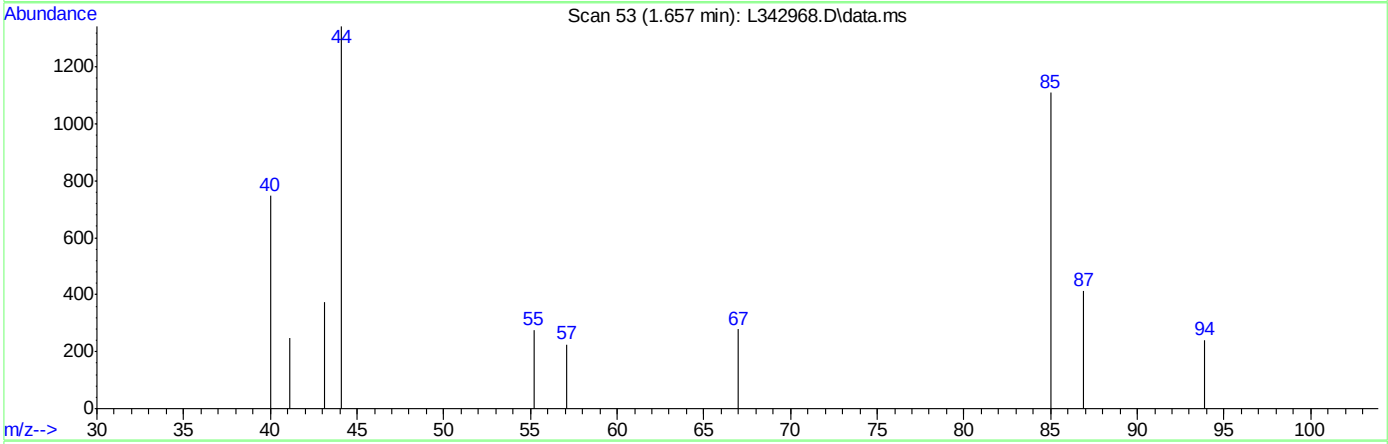
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 0.00 |
| 87.00 | 33.00 | 0.00 |
| 100.90 | 8.90 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342968.D
Acq On : 15 Jun 2022 4:25 pm
Operator : BridgetK
Sample : ic10355-0.2
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 15:08:49 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration




TIC: L342968.D\data.ms

(7) dichlorodifluoromethane

1.657min (+0.003) 0.25ug/L m

response 1059

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 33.00 | 37.18 |
| 100.90 | 8.90 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342969.D
Acq On : 15 Jun 2022 4:48 pm
Operator : BridgetK
Sample : ic10355-0.5
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 15:10:57 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.092 | 65 | 274323 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.314 | 168 | 255051 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.882 | 114 | 368348 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.279 | 117 | 321113 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 124594 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.324 | 113 | 113357 | 48.49 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.98% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.577 | 65 | 140259 | 53.37 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 106.74% | | | | |
| 73) toluene-d8 (s) | 6.028 | 98 | 460317 | 54.63 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 109.26% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 162731 | 50.61 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.22% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 6) chlorodifluoromethane | 1.673 | 51 | 1548 | 0.55 | ug/L | # | 59 |
| 7) dichlorodifluoromethane | 1.664 | 85 | 1970 | 0.47 | ug/L | | 82 |
| 9) vinyl chloride | 1.898 | 62 | 1960 | 0.59 | ug/L | | 86 |
| 12) chloroethane | 2.241 | 64 | 1184 | 0.62 | ug/L | | 62 |
| 13) trichlorofluoromethane | 2.421 | 101 | 2509 | 0.53 | ug/L | | 91 |
| 16) freon 113 | 2.784 | 151 | 1024 | 0.53 | ug/L | # | 58 |
| 17) 1,1-dichloroethene | 2.793 | 96 | 1381 | 0.58 | ug/L | # | 50 |
| 25) methyl tert butyl ether | 3.291 | 73 | 4885 | 0.54 | ug/L | | 94 |
| 26) trans-1,2-dichloroethene | 3.310 | 96 | 1506 | 0.60 | ug/L | # | 77 |
| 27) hexane | 3.477 | 57 | 1976 | 0.56 | ug/L | | 89 |
| 28) di-isopropyl ether | 3.595 | 45 | 4074 | 0.56 | ug/L | | 88 |
| 29) ethyl tert-butyl ether | 3.833 | 59 | 4499 | 0.52 | ug/L | | 83 |
| 30) 2-butanone | 3.971 | 72 | 1419 | 2.27 | ug/L | # | 65 |
| 31) 1,1-dichloroethane | 3.605 | 63 | 2360 | 0.53 | ug/L | | 86 |
| 32) chloroprene | 3.656 | 53 | 2149 | 0.61 | ug/L | | 78 |
| 36) 2,2-dichloropropane | 4.000 | 77 | 2394 | 0.58 | ug/L | | 80 |
| 37) cis-1,2-dichloroethene | 3.993 | 96 | 1606 | 0.58 | ug/L | | 78 |
| 40) bromochloromethane | 4.157 | 128 | 689 | 0.54 | ug/L | # | 78 |
| 41) tetrahydrofuran | 4.176 | 72 | 277 | 0.38 | ug/L | # | 35 |
| 45) 1,1,1-trichloroethane | 4.346 | 97 | 2395 | 0.55 | ug/L | # | 40 |
| 46) cyclohexane | 4.414 | 84 | 2085 | 0.55 | ug/L | # | 54 |
| 47) 1,1-dichloropropene | 4.455 | 75 | 1860 | 0.53 | ug/L | | 85 |
| 48) carbon tetrachloride | 4.465 | 117 | 2054 | 0.60 | ug/L | # | 63 |
| 55) n-butyl alcohol | 4.946 | 56 | 4439 | 26.13 | ug/L | | 77 |
| 56) benzene | 4.609 | 78 | 5329 | 0.58 | ug/L | | 86 |
| 57) heptane | 4.780 | 57 | 929 | 0.65 | ug/L | # | 58 |
| 59) trichloroethene | 5.084 | 95 | 1717 | 0.65 | ug/L | # | 58 |
| 62) 2-chloroethyl vinyl ether | 5.659 | 63 | 4097 | 2.63 | ug/L | | 94 |
| 65) methylcyclohexane | 5.271 | 83 | 1955 | 0.46 | ug/L | | 84 |
| 66) dibromomethane | 5.351 | 93 | 973 | 0.59 | ug/L | # | 70 |
| 67) bromodichloromethane | 5.463 | 83 | 2449 | 0.65 | ug/L | | 72 |
| 68) cis-1,3-dichloropropene | 5.810 | 75 | 2352 | 0.52 | ug/L | | 69 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342969.D
Acq On : 15 Jun 2022 4:48 pm
Operator : BridgetK
Sample : ic10355-0.5
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 15:10:57 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

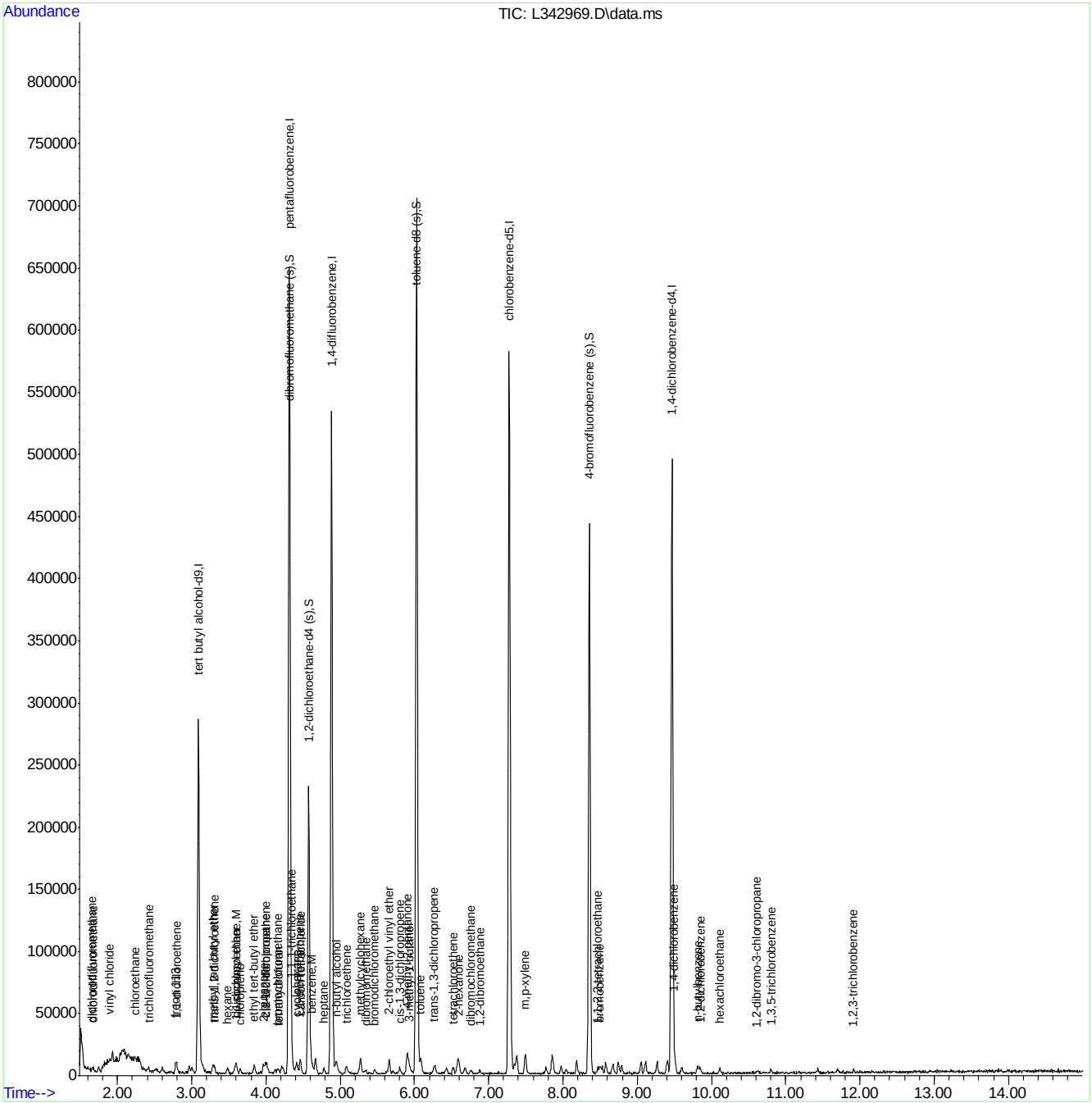
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 70) 4-methyl-2-pentanone | 5.906 | 58 | 3657 | 2.38 | ug/L | # | 75 |
| 71) 3-methyl-1-butanol | 5.932 | 70 | 2244 | 12.66 | ug/L | # | 79 |
| 74) toluene | 6.082 | 92 | 3549 | 0.63 | ug/L | | 83 |
| 75) trans-1,3-dichloropropene | 6.262 | 75 | 2522 | 0.62 | ug/L | | 90 |
| 78) 2-hexanone | 6.593 | 58 | 3941 | 2.65 | ug/L | | 90 |
| 79) tetrachloroethene | 6.525 | 166 | 1292 | 0.56 | ug/L | | 86 |
| 82) dibromochloromethane | 6.756 | 129 | 1751 | 0.69 | ug/L | | 81 |
| 83) 1,2-dibromoethane | 6.885 | 107 | 1704 | 0.65 | ug/L | # | 67 |
| 88) m,p-xylene | 7.491 | 106 | 5283 | 1.33 | ug/L | | 97 |
| 97) bromobenzene | 8.495 | 156 | 1426 | 0.59 | ug/L | | 77 |
| 98) 1,1,2,2-tetrachloroethane | 8.470 | 83 | 2462 | 0.66 | ug/L | | 94 |
| 110) 1,4-dichlorobenzene | 9.497 | 146 | 2437 | 0.59 | ug/L | | 73 |
| 112) 1,2-dichlorobenzene | 9.846 | 146 | 2458 | 0.61 | ug/L | | 90 |
| 113) n-butylbenzene | 9.808 | 92 | 2176 | 0.52 | ug/L | | 96 |
| 114) 1,2-dibromo-3-chloropr... | 10.607 | 157 | 404 | 0.40 | ug/L | # | 4 |
| 115) 1,3,5-trichlorobenzene | 10.809 | 180 | 1248 | 0.43 | ug/L | | 79 |
| 119) 1,2,3-trichlorobenzene | 11.903 | 180 | 959 | 0.45 | ug/L | # | 38 |
| 120) hexachloroethane | 10.116 | 119 | 779 | 0.47 | ug/L | | 86 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342969.D
Acq On : 15 Jun 2022 4:48 pm
Operator : BridgetK
Sample : ic10355-0.5
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 15:10:57 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342970.D
Acq On : 15 Jun 2022 5:11 pm
Operator : BridgetK
Sample : ic10355-1
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 16 15:12:10 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.089 | 65 | 277339 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.308 | 168 | 259441 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.879 | 114 | 373581 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.273 | 117 | 325769 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.465 | 152 | 125399 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.318 | 113 | 115612 | 48.62 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.24% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.571 | 65 | 139827 | 52.46 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 104.92% | | | | |
| 73) toluene-d8 (s) | 6.025 | 98 | 465217 | 54.42 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 108.84% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 163636 | 50.57 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.14% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.316 | 88 | 1675 | 25.21 | ug/L | | 70 |
| 3) ethanol | 2.508 | 45 | 8093 | 126.43 | ug/L | | 88 |
| 4) tertiary butyl alcohol | 3.150 | 59 | 4737 | 6.12 | ug/L | | 84 |
| 6) chlorodifluoromethane | 1.677 | 51 | 2698 | 0.95 | ug/L | # | 78 |
| 7) dichlorodifluoromethane | 1.657 | 85 | 5197 | 1.23 | ug/L | | 91 |
| 8) chloromethane | 1.815 | 50 | 3446 | 1.23 | ug/L | | 96 |
| 9) vinyl chloride | 1.901 | 62 | 4160 | 1.23 | ug/L | | 77 |
| 12) chloroethane | 2.232 | 64 | 2854 | 1.48 | ug/L | | 83 |
| 13) trichlorofluoromethane | 2.421 | 101 | 5933 | 1.23 | ug/L | | 76 |
| 14) ethyl ether | 2.604 | 74 | 1310 | 0.72 | ug/L | # | 73 |
| 16) freon 113 | 2.781 | 151 | 1785 | 0.90 | ug/L | # | 75 |
| 17) 1,1-dichloroethene | 2.790 | 96 | 2108 | 0.88 | ug/L | # | 72 |
| 18) acetone | 2.803 | 58 | 1492 | 3.57 | ug/L | # | 53 |
| 19) acetonitrile | 2.992 | 40 | 3136 | 11.63 | ug/L | # | 68 |
| 22) carbon disulfide | 2.963 | 76 | 7566 | 1.07 | ug/L | | 93 |
| 23) methylene chloride | 3.114 | 84 | 2740 | 1.04 | ug/L | | 87 |
| 25) methyl tert butyl ether | 3.284 | 73 | 8342 | 0.91 | ug/L | | 93 |
| 26) trans-1,2-dichloroethene | 3.300 | 96 | 2183 | 0.86 | ug/L | | 88 |
| 27) hexane | 3.480 | 57 | 3822 | 1.06 | ug/L | | 87 |
| 28) di-isopropyl ether | 3.592 | 45 | 6509 | 0.88 | ug/L | | 95 |
| 29) ethyl tert-butyl ether | 3.839 | 59 | 7465 | 0.86 | ug/L | | 98 |
| 30) 2-butanone | 3.958 | 72 | 2182 | 3.43 | ug/L | # | 85 |
| 31) 1,1-dichloroethane | 3.596 | 63 | 4047 | 0.89 | ug/L | | 76 |
| 32) chloroprene | 3.650 | 53 | 3396 | 0.95 | ug/L | | 85 |
| 33) acrylonitrile | 3.275 | 53 | 1686 | 1.13 | ug/L | # | 70 |
| 36) 2,2-dichloropropane | 4.000 | 77 | 4645 | 1.10 | ug/L | | 96 |
| 37) cis-1,2-dichloroethene | 3.990 | 96 | 2595 | 0.92 | ug/L | | 87 |
| 38) propionitrile | 4.010 | 54 | 5926 | 9.85 | ug/L | | 82 |
| 40) bromochloromethane | 4.164 | 128 | 1191 | 0.92 | ug/L | # | 70 |
| 41) tetrahydrofuran | 4.164 | 72 | 692 | 0.94 | ug/L | # | 68 |
| 42) chloroform | 4.208 | 83 | 5525 | 1.12 | ug/L | | 85 |
| 44) methacrylonitrile | 4.115 | 67 | 1702 | 0.98 | ug/L | # | 51 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342970.D
Acq On : 15 Jun 2022 5:11 pm
Operator : BridgetK
Sample : ic10355-1
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 16 15:12:10 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 45) 1,1,1-trichloroethane | 4.350 | 97 | 4043 | 0.91 | ug/L | # | 70 |
| 46) cyclohexane | 4.407 | 84 | 5185 | 1.34 | ug/L | # | 78 |
| 47) 1,1-dichloropropene | 4.456 | 75 | 3495 | 0.98 | ug/L | | 85 |
| 48) carbon tetrachloride | 4.459 | 117 | 3338 | 0.96 | ug/L | | 97 |
| 53) tert-amyl methyl ether | 4.664 | 73 | 7913 | 0.99 | ug/L | | 96 |
| 54) 2,2,4-trimethylpentane | 4.667 | 57 | 6553 | 1.03 | ug/L | | 86 |
| 55) n-butyl alcohol | 4.937 | 56 | 10235 | 59.40 | ug/L | | 97 |
| 56) benzene | 4.606 | 78 | 9329 | 1.01 | ug/L | | 83 |
| 57) heptane | 4.773 | 57 | 1523 | 1.05 | ug/L | # | 70 |
| 58) 1,2-dichloroethane | 4.632 | 62 | 3780 | 1.05 | ug/L | | 73 |
| 59) trichloroethene | 5.075 | 95 | 2318 | 0.86 | ug/L | # | 78 |
| 60) ethyl acrylate | 5.091 | 55 | 4393 | 0.99 | ug/L | | 93 |
| 62) 2-chloroethyl vinyl ether | 5.656 | 63 | 6921 | 4.37 | ug/L | | 93 |
| 64) 1,2-dichloropropane | 5.271 | 63 | 2353 | 1.00 | ug/L | | 89 |
| 65) methylcyclohexane | 5.258 | 83 | 4401 | 1.01 | ug/L | | 80 |
| 66) dibromomethane | 5.344 | 93 | 1569 | 0.93 | ug/L | # | 58 |
| 67) bromodichloromethane | 5.466 | 83 | 3604 | 0.94 | ug/L | | 73 |
| 68) cis-1,3-dichloropropene | 5.800 | 75 | 3713 | 0.81 | ug/L | | 89 |
| 70) 4-methyl-2-pentanone | 5.900 | 58 | 6690 | 4.30 | ug/L | # | 82 |
| 71) 3-methyl-1-butanol | 5.916 | 70 | 4744 | 26.39 | ug/L | # | 84 |
| 74) toluene | 6.086 | 92 | 6012 | 1.04 | ug/L | | 81 |
| 75) trans-1,3-dichloropropene | 6.253 | 75 | 3535 | 0.86 | ug/L | | 91 |
| 76) ethyl methacrylate | 6.269 | 69 | 4618 | 1.15 | ug/L | | 88 |
| 77) 1,1,2-trichloroethane | 6.432 | 83 | 2027 | 0.99 | ug/L | # | 49 |
| 78) 2-hexanone | 6.586 | 58 | 7288 | 4.83 | ug/L | | 81 |
| 79) tetrachloroethene | 6.506 | 166 | 2125 | 0.91 | ug/L | # | 39 |
| 80) 1,3-dichloropropane | 6.573 | 76 | 4034 | 1.03 | ug/L | | 91 |
| 82) dibromochloromethane | 6.756 | 129 | 2691 | 1.04 | ug/L | | 87 |
| 83) 1,2-dibromoethane | 6.872 | 107 | 2581 | 0.97 | ug/L | | 86 |
| 84) n-butyl ether | 7.344 | 57 | 8639 | 0.97 | ug/L | | 92 |
| 85) chlorobenzene | 7.305 | 112 | 5484 | 0.88 | ug/L | | 88 |
| 86) 1,1,1,2-tetrachloroethane | 7.376 | 131 | 2167 | 1.03 | ug/L | # | 70 |
| 87) ethylbenzene | 7.376 | 91 | 10425 | 1.03 | ug/L | | 93 |
| 88) m,p-xylene | 7.488 | 106 | 7861 | 1.96 | ug/L | | 96 |
| 89) o-xylene | 7.851 | 106 | 3723 | 0.88 | ug/L | | 88 |
| 90) butyl acrylate | 7.767 | 55 | 5868 | 1.11 | ug/L | | 95 |
| 91) styrene | 7.860 | 104 | 6299 | 0.94 | ug/L | | 86 |
| 92) bromoform | 8.034 | 173 | 2119 | 1.11 | ug/L | | 84 |
| 93) isopropylbenzene | 8.178 | 105 | 9671 | 0.92 | ug/L | | 95 |
| 97) bromobenzene | 8.502 | 156 | 2582 | 1.07 | ug/L | # | 58 |
| 98) 1,1,2,2-tetrachloroethane | 8.467 | 83 | 4609 | 1.22 | ug/L | | 81 |
| 100) 1,2,3-trichloropropane | 8.531 | 110 | 1210 | 1.08 | ug/L | | 70 |
| 101) n-propylbenzene | 8.579 | 91 | 11535 | 1.00 | ug/L | | 92 |
| 102) 2-chlorotoluene | 8.669 | 126 | 2374 | 1.03 | ug/L | | 99 |
| 103) 4-chlorotoluene | 8.794 | 126 | 2293 | 1.02 | ug/L | # | 57 |
| 104) 1,3,5-trimethylbenzene | 8.746 | 105 | 8401 | 1.00 | ug/L | | 94 |
| 105) tert-butylbenzene | 9.051 | 119 | 6221 | 0.86 | ug/L | | 87 |
| 106) 1,2,4-trimethylbenzene | 9.112 | 105 | 8403 | 0.98 | ug/L | | 98 |
| 107) sec-butylbenzene | 9.266 | 105 | 9540 | 0.93 | ug/L | | 94 |
| 108) 1,3-dichlorobenzene | 9.397 | 146 | 3912 | 0.90 | ug/L | | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342970.D
Acq On : 15 Jun 2022 5:11 pm
Operator : BridgetK
Sample : ic10355-1
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 16 15:12:10 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

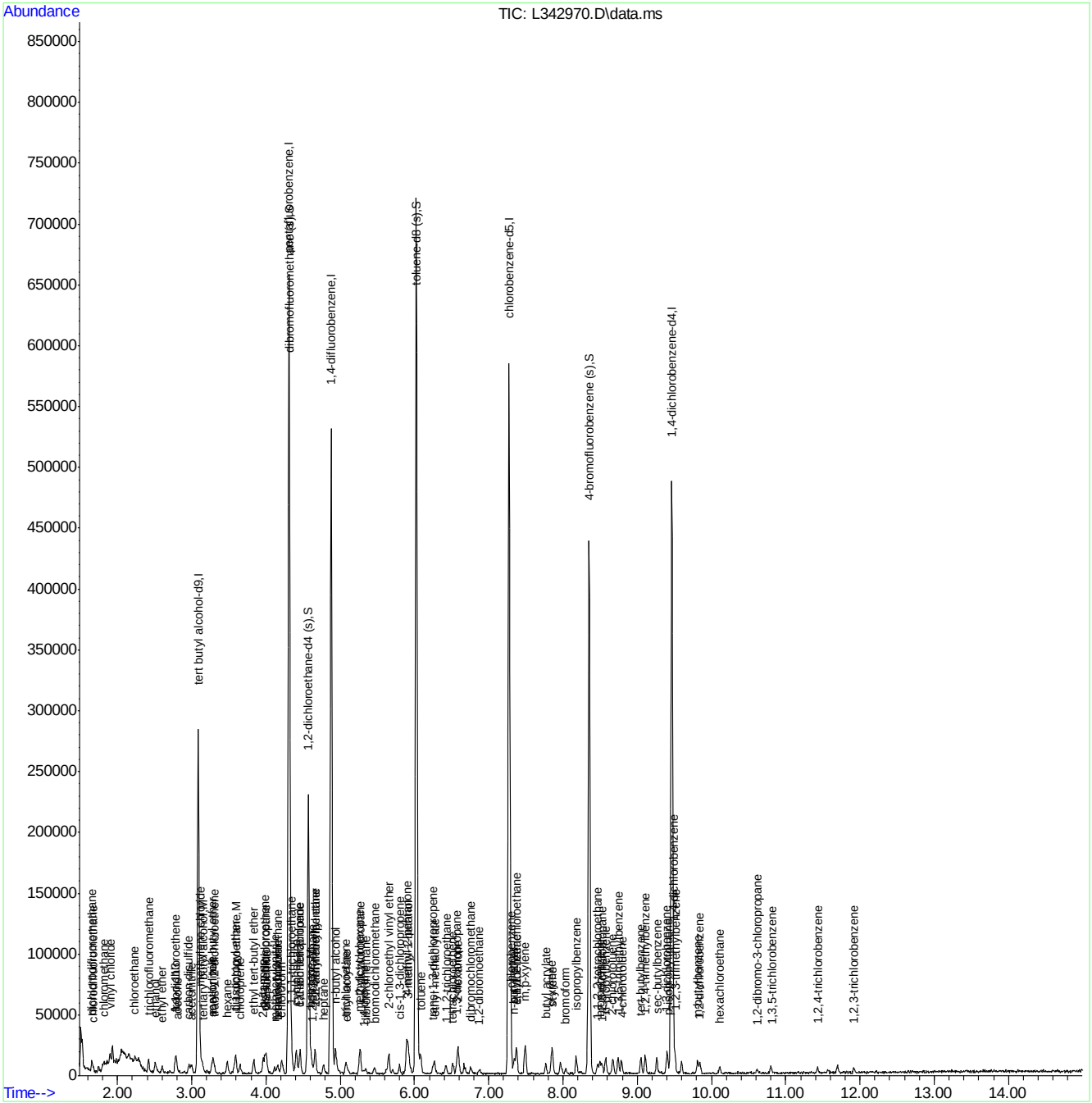
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 109) p-isopropyltoluene | 9.417 | 119 | 7527 | 0.93 | ug/L | | 80 |
| 110) 1,4-dichlorobenzene | 9.487 | 146 | 3638 | 0.87 | ug/L | | 92 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 8124 | 0.99 | ug/L | | 85 |
| 112) 1,2-dichlorobenzene | 9.840 | 146 | 3999 | 0.99 | ug/L | | 78 |
| 113) n-butylbenzene | 9.808 | 92 | 3247 | 0.76 | ug/L | # | 78 |
| 114) 1,2-dibromo-3-chloropr... | 10.613 | 157 | 910 | 0.91 | ug/L | | 87 |
| 115) 1,3,5-trichlorobenzene | 10.812 | 180 | 2174 | 0.74 | ug/L | # | 63 |
| 116) 1,2,4-trichlorobenzene | 11.435 | 180 | 1700 | 0.69 | ug/L | # | 61 |
| 119) 1,2,3-trichlorobenzene | 11.913 | 180 | 1558 | 0.73 | ug/L | | 97 |
| 120) hexachloroethane | 10.116 | 119 | 1579 | 0.94 | ug/L | # | 63 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342970.D
Acq On : 15 Jun 2022 5:11 pm
Operator : BridgetK
Sample : ic10355-1
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 16 15:12:10 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342971.D
Acq On : 15 Jun 2022 5:35 pm
Operator : BridgetK
Sample : ic10355-2
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 16 15:15:04 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 09:03:24 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.092 | 65 | 284291 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.314 | 168 | 249516 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.882 | 114 | 365208 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 320476 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 127027 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.324 | 113 | 114506 | 50.81 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.62% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.577 | 65 | 138702 | 52.04 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 104.08% | | | | |
| 73) toluene-d8 (s) | 6.028 | 98 | 459371 | 52.08 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.16% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 163387 | 49.37 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.74% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.319 | 88 | 4214 | 56.85 | ug/L | | 100 |
| 3) ethanol | 2.511 | 45 | 16203 | 228.31 | ug/L | | 82 |
| 4) tertiary butyl alcohol | 3.153 | 59 | 9997 | 11.47 | ug/L | | 98 |
| 6) chlorodifluoromethane | 1.677 | 51 | 6118 | 2.19 | ug/L | # | 90 |
| 7) dichlorodifluoromethane | 1.654 | 85 | 7119 | 1.75 | ug/L | | 95 |
| 8) chloromethane | 1.821 | 50 | 5201 | 1.91 | ug/L | | 89 |
| 9) vinyl chloride | 1.901 | 62 | 6261 | 1.86 | ug/L | | 83 |
| 11) bromomethane | 2.158 | 96 | 3420 | 2.45 | ug/L | | 90 |
| 12) chloroethane | 2.238 | 64 | 3941 | 2.01 | ug/L | | 74 |
| 13) trichlorofluoromethane | 2.421 | 101 | 9500 | 2.02 | ug/L | | 97 |
| 14) ethyl ether | 2.610 | 74 | 3333 | 2.03 | ug/L | | 90 |
| 15) acrolein | 2.710 | 56 | 1454 | 2.44 | ug/L | | 67 |
| 16) freon 113 | 2.784 | 151 | 3841 | 2.08 | ug/L | | 96 |
| 17) 1,1-dichloroethene | 2.790 | 96 | 5091 | 2.21 | ug/L | | 86 |
| 18) acetone | 2.809 | 58 | 3801 | 9.39 | ug/L | # | 53 |
| 19) acetonitrile | 2.995 | 40 | 5557 | 21.19 | ug/L | | 90 |
| 20) iodomethane | 2.906 | 142 | 2144 | 2.55 | ug/L | | 85 |
| 22) carbon disulfide | 2.967 | 76 | 16970 | 2.39 | ug/L | | 95 |
| 23) methylene chloride | 3.124 | 84 | 6514 | 2.43 | ug/L | | 91 |
| 24) methyl acetate | 3.012 | 74 | 1677 | 2.06 | ug/L | # | 49 |
| 25) methyl tert butyl ether | 3.287 | 73 | 19415 | 2.23 | ug/L | | 95 |
| 26) trans-1,2-dichloroethene | 3.310 | 96 | 5803 | 2.33 | ug/L | | 87 |
| 27) hexane | 3.486 | 57 | 7324 | 2.09 | ug/L | | 93 |
| 28) di-isopropyl ether | 3.596 | 45 | 15730 | 2.22 | ug/L | | 89 |
| 29) ethyl tert-butyl ether | 3.839 | 59 | 18788 | 2.27 | ug/L | | 95 |
| 30) 2-butanone | 3.961 | 72 | 5436 | 8.74 | ug/L | | 91 |
| 31) 1,1-dichloroethane | 3.605 | 63 | 10130 | 2.32 | ug/L | | 95 |
| 32) chloroprene | 3.656 | 53 | 7825 | 2.20 | ug/L | | 89 |
| 33) acrylonitrile | 3.278 | 53 | 2878 | 2.00 | ug/L | | 89 |
| 34) vinyl acetate | 3.573 | 86 | 1668 | 2.21 | ug/L | # | 91 |
| 35) ethyl acetate | 3.977 | 45 | 1510 | 2.39 | ug/L | # | 50 |
| 36) 2,2-dichloropropane | 4.003 | 77 | 10491 | 2.46 | ug/L | | 89 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342971.D
Acq On : 15 Jun 2022 5:35 pm
Operator : BridgetK
Sample : ic10355-2
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 16 15:15:04 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 09:03:24 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 37) cis-1,2-dichloroethene | 3.997 | 96 | 6565 | 2.33 | ug/L | | 81 |
| 38) propionitrile | 4.013 | 54 | 13726 | 23.10 | ug/L | | 91 |
| 39) methyl acrylate | 4.016 | 85 | 1719 | 2.35 | ug/L | # | 67 |
| 40) bromochloromethane | 4.160 | 128 | 2476 | 2.02 | ug/L | | 97 |
| 41) tetrahydrofuran | 4.183 | 72 | 1537 | 2.21 | ug/L | # | 52 |
| 42) chloroform | 4.212 | 83 | 11960 | 2.39 | ug/L | | 96 |
| 44) methacrylonitrile | 4.122 | 67 | 4178 | 2.40 | ug/L | # | 70 |
| 45) 1,1,1-trichloroethane | 4.353 | 97 | 9984 | 2.32 | ug/L | | 97 |
| 46) cyclohexane | 4.414 | 84 | 8055 | 2.04 | ug/L | | 89 |
| 47) 1,1-dichloropropene | 4.459 | 75 | 7604 | 2.22 | ug/L | | 86 |
| 48) carbon tetrachloride | 4.465 | 117 | 8277 | 2.32 | ug/L | # | 80 |
| 49) isopropyl acetate | 4.577 | 87 | 2190 | 2.46 | ug/L | # | 27 |
| 53) tert-amyl methyl ether | 4.671 | 73 | 19062 | 2.34 | ug/L | | 98 |
| 54) 2,2,4-trimethylpentane | 4.667 | 57 | 16041 | 2.48 | ug/L | | 91 |
| 55) n-butyl alcohol | 4.937 | 56 | 22094 | 122.03 | ug/L | | 96 |
| 56) benzene | 4.606 | 78 | 22120 | 2.33 | ug/L | | 98 |
| 57) heptane | 4.780 | 57 | 3063 | 2.05 | ug/L | | 87 |
| 58) 1,2-dichloroethane | 4.635 | 62 | 8207 | 2.29 | ug/L | | 88 |
| 59) trichloroethene | 5.078 | 95 | 6028 | 2.24 | ug/L | | 79 |
| 60) ethyl acrylate | 5.091 | 55 | 10760 | 2.41 | ug/L | | 91 |
| 62) 2-chloroethyl vinyl ether | 5.656 | 63 | 17659 | 11.34 | ug/L | | 89 |
| 63) methyl methacrylate | 5.271 | 100 | 2340 | 2.25 | ug/L | # | 81 |
| 64) 1,2-dichloropropane | 5.280 | 63 | 5290 | 2.26 | ug/L | | 88 |
| 65) methylcyclohexane | 5.267 | 83 | 9940 | 2.35 | ug/L | | 95 |
| 66) dibromomethane | 5.344 | 93 | 3847 | 2.22 | ug/L | | 95 |
| 67) bromodichloromethane | 5.463 | 83 | 9114 | 2.31 | ug/L | | 82 |
| 68) cis-1,3-dichloropropene | 5.800 | 75 | 9922 | 2.24 | ug/L | | 87 |
| 69) epichlorohydrin | 5.710 | 57 | 6052 | 11.88 | ug/L | | 86 |
| 70) 4-methyl-2-pentanone | 5.906 | 58 | 15875 | 9.73 | ug/L | | 96 |
| 71) 3-methyl-1-butanol | 5.922 | 70 | 9724 | 48.70 | ug/L | | 91 |
| 74) toluene | 6.089 | 92 | 13489 | 2.24 | ug/L | | 97 |
| 75) trans-1,3-dichloropropene | 6.256 | 75 | 9482 | 2.28 | ug/L | | 88 |
| 76) ethyl methacrylate | 6.275 | 69 | 10222 | 2.44 | ug/L | | 92 |
| 77) 1,1,2-trichloroethane | 6.429 | 83 | 5056 | 2.41 | ug/L | | 96 |
| 78) 2-hexanone | 6.589 | 58 | 16360 | 9.81 | ug/L | | 94 |
| 79) tetrachloroethene | 6.528 | 166 | 5898 | 2.45 | ug/L | | 84 |
| 80) 1,3-dichloropropane | 6.570 | 76 | 9743 | 2.39 | ug/L | | 83 |
| 82) dibromochloromethane | 6.760 | 129 | 6675 | 2.38 | ug/L | | 86 |
| 83) 1,2-dibromoethane | 6.875 | 107 | 6208 | 2.21 | ug/L | | 81 |
| 84) n-butyl ether | 7.344 | 57 | 21435 | 2.39 | ug/L | | 95 |
| 85) chlorobenzene | 7.299 | 112 | 13981 | 2.27 | ug/L | | 95 |
| 86) 1,1,1,2-tetrachloroethane | 7.376 | 131 | 5439 | 2.44 | ug/L | | 90 |
| 87) ethylbenzene | 7.376 | 91 | 26472 | 2.51 | ug/L | | 97 |
| 88) m,p-xylene | 7.494 | 106 | 19628 | 4.63 | ug/L | | 94 |
| 89) o-xylene | 7.854 | 106 | 10251 | 2.42 | ug/L | | 94 |
| 90) butyl acrylate | 7.767 | 55 | 12608 | 2.33 | ug/L | | 95 |
| 91) styrene | 7.860 | 104 | 16596 | 2.42 | ug/L | | 89 |
| 92) bromoform | 8.046 | 173 | 4546 | 2.31 | ug/L | | 75 |
| 93) isopropylbenzene | 8.181 | 105 | 26291 | 2.47 | ug/L | | 91 |
| 97) bromobenzene | 8.505 | 156 | 5804 | 2.25 | ug/L | # | 76 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342971.D
Acq On : 15 Jun 2022 5:35 pm
Operator : BridgetK
Sample : ic10355-2
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 16 15:15:04 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 09:03:24 2022
Response via : Initial Calibration

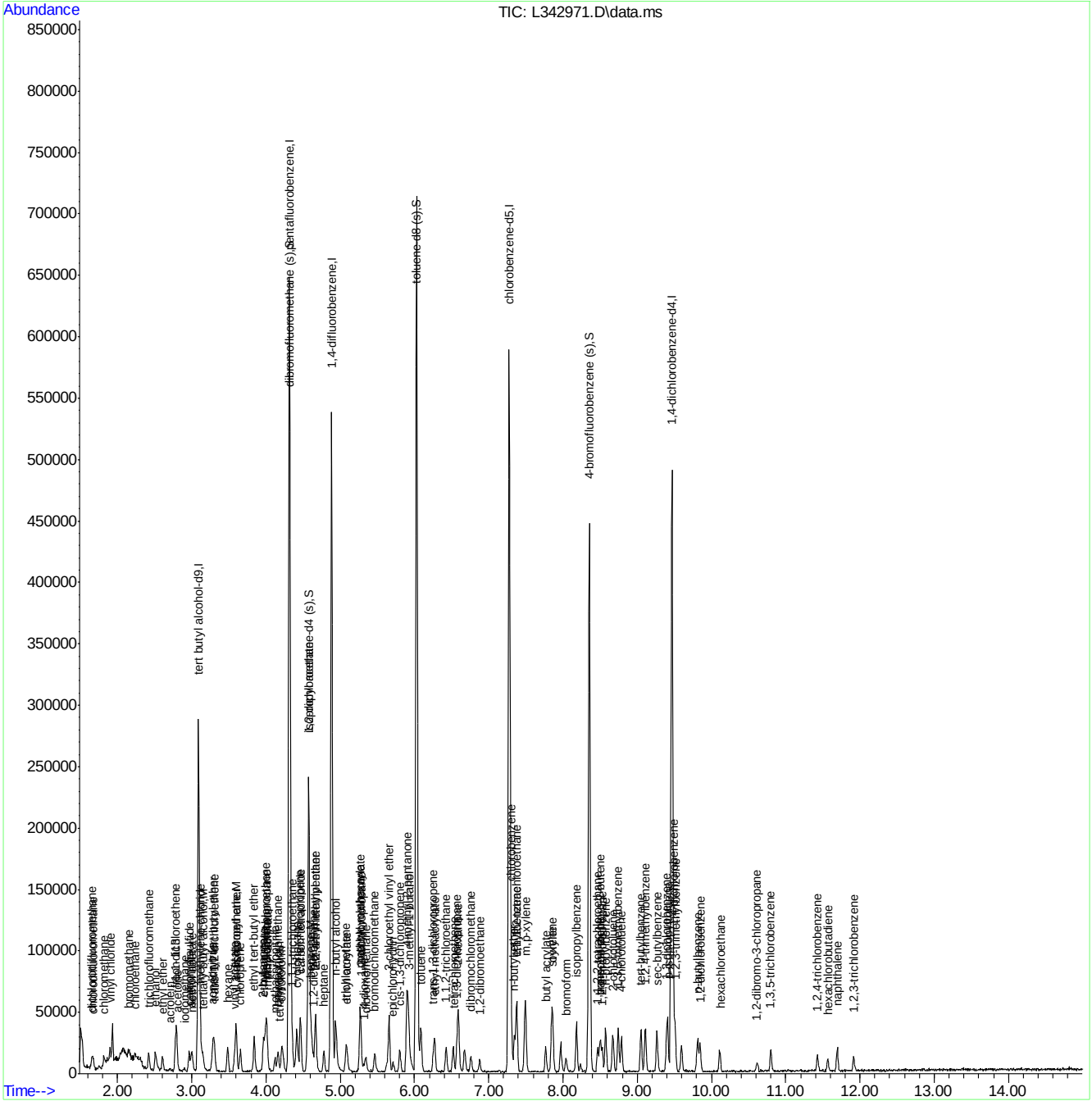
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 98) 1,1,2,2-tetrachloroethane | 8.470 | 83 | 9915 | 2.33 | ug/L | | 98 |
| 99) trans-1,4-dichloro-2-b... | 8.505 | 53 | 1135 | 1.88 | ug/L | # | 59 |
| 100) 1,2,3-trichloropropane | 8.524 | 110 | 2973 | 2.43 | ug/L | | 85 |
| 101) n-propylbenzene | 8.579 | 91 | 28972 | 2.38 | ug/L | | 93 |
| 102) 2-chlorotoluene | 8.672 | 126 | 5387 | 2.25 | ug/L | # | 82 |
| 103) 4-chlorotoluene | 8.788 | 126 | 5626 | 2.34 | ug/L | # | 86 |
| 104) 1,3,5-trimethylbenzene | 8.739 | 105 | 20803 | 2.38 | ug/L | | 92 |
| 105) tert-butylbenzene | 9.051 | 119 | 17612 | 2.41 | ug/L | | 91 |
| 106) 1,2,4-trimethylbenzene | 9.112 | 105 | 22064 | 2.47 | ug/L | | 91 |
| 107) sec-butylbenzene | 9.266 | 105 | 24339 | 2.33 | ug/L | | 94 |
| 108) 1,3-dichlorobenzene | 9.397 | 146 | 9318 | 2.14 | ug/L | | 92 |
| 109) p-isopropyltoluene | 9.413 | 119 | 19275 | 2.34 | ug/L | | 98 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 9451 | 2.21 | ug/L | | 93 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 19602 | 2.31 | ug/L | | 99 |
| 112) 1,2-dichlorobenzene | 9.850 | 146 | 9891 | 2.31 | ug/L | | 80 |
| 113) n-butylbenzene | 9.811 | 92 | 8778 | 2.13 | ug/L | | 84 |
| 114) 1,2-dibromo-3-chloropr... | 10.610 | 157 | 2053 | 2.04 | ug/L | # | 74 |
| 115) 1,3,5-trichlorobenzene | 10.793 | 180 | 5764 | 2.09 | ug/L | | 88 |
| 116) 1,2,4-trichlorobenzene | 11.428 | 180 | 4387 | 1.96 | ug/L | | 93 |
| 117) hexachlorobutadiene | 11.566 | 225 | 2060 | 2.30 | ug/L | # | 76 |
| 118) naphthalene | 11.698 | 128 | 14875 | 1.97 | ug/L | | 98 |
| 119) 1,2,3-trichlorobenzene | 11.913 | 180 | 4236 | 2.09 | ug/L | | 94 |
| 120) hexachloroethane | 10.119 | 119 | 3883 | 2.27 | ug/L | | 75 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342971.D
Acq On : 15 Jun 2022 5:35 pm
Operator : BridgetK
Sample : ic10355-2
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 16 15:15:04 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 09:03:24 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342972.D
Acq On : 15 Jun 2022 5:58 pm
Operator : BridgetK
Sample : ic10355-4
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 16 15:15:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.092 | 65 | 266435 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.311 | 168 | 245625 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.879 | 114 | 359159 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 315874 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 122156 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.321 | 113 | 111169 | 49.38 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.76% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.574 | 65 | 136899 | 53.43 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 106.86% | | | | |
| 73) toluene-d8 (s) | 6.028 | 98 | 443001 | 53.44 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.88% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 162423 | 51.52 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.04% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.312 | 88 | 8566 | 134.18 | ug/L | | 99 |
| 3) ethanol | 2.514 | 45 | 31740 | 516.15 | ug/L | | 95 |
| 4) tertiary butyl alcohol | 3.146 | 59 | 20218 | 27.20 | ug/L | | 96 |
| 6) chlorodifluoromethane | 1.673 | 51 | 10962 | 4.07 | ug/L | # | 98 |
| 7) dichlorodifluoromethane | 1.657 | 85 | 14063 | 3.51 | ug/L | | 97 |
| 8) chloromethane | 1.821 | 50 | 10279 | 3.88 | ug/L | | 85 |
| 9) vinyl chloride | 1.901 | 62 | 11668 | 3.63 | ug/L | | 89 |
| 10) 1.3-butadiene | 1.933 | 54 | 15635 | 4.77 | ug/L | | 94 |
| 11) bromomethane | 2.158 | 96 | 5181 | 3.82 | ug/L | | 87 |
| 12) chloroethane | 2.238 | 64 | 6404 | 3.51 | ug/L | | 91 |
| 13) trichlorofluoromethane | 2.424 | 101 | 17834 | 3.89 | ug/L | | 94 |
| 14) ethyl ether | 2.607 | 74 | 6710 | 3.88 | ug/L | | 92 |
| 15) acrolein | 2.713 | 56 | 2155 | 3.73 | ug/L | | 87 |
| 16) freon 113 | 2.781 | 151 | 7517 | 4.02 | ug/L | | 86 |
| 17) 1,1-dichloroethene | 2.790 | 96 | 9106 | 4.00 | ug/L | | 95 |
| 18) acetone | 2.800 | 58 | 7341 | 18.53 | ug/L | | 98 |
| 19) acetonitrile | 2.992 | 40 | 9728 | 38.11 | ug/L | | 89 |
| 20) iodomethane | 2.906 | 142 | 4690 | 2.21 | ug/L | | 80 |
| 21) iso-butyl alcohol | 4.462 | 43 | 13588 | 58.96 | ug/L | | 97 |
| 22) carbon disulfide | 2.963 | 76 | 28854 | 4.32 | ug/L | | 99 |
| 23) methylene chloride | 3.121 | 84 | 11469 | 4.58 | ug/L | | 89 |
| 24) methyl acetate | 3.008 | 74 | 3757 | 4.76 | ug/L | # | 73 |
| 25) methyl tert butyl ether | 3.288 | 73 | 36554 | 4.21 | ug/L | | 95 |
| 26) trans-1,2-dichloroethene | 3.307 | 96 | 10212 | 4.23 | ug/L | | 94 |
| 27) hexane | 3.480 | 57 | 13576 | 3.97 | ug/L | | 86 |
| 28) di-isopropyl ether | 3.592 | 45 | 30681 | 4.40 | ug/L | | 95 |
| 29) ethyl tert-butyl ether | 3.840 | 59 | 34369 | 4.16 | ug/L | | 97 |
| 30) 2-butanone | 3.961 | 72 | 10989 | 18.24 | ug/L | | 93 |
| 31) 1,1-dichloroethane | 3.599 | 63 | 19080 | 4.42 | ug/L | | 95 |
| 32) chloroprene | 3.653 | 53 | 14044 | 4.13 | ug/L | | 91 |
| 33) acrylonitrile | 3.268 | 53 | 5396 | 3.81 | ug/L | | 80 |
| 34) vinyl acetate | 3.576 | 86 | 2482 | 3.14 | ug/L | # | 92 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342972.D
Acq On : 15 Jun 2022 5:58 pm
Operator : BridgetK
Sample : ic10355-4
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 16 15:15:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) ethyl acetate | 3.968 | 45 | 2708 | 4.70 | ug/L | | 83 |
| 36) 2,2-dichloropropane | 4.003 | 77 | 18182 | 4.57 | ug/L | | 96 |
| 37) cis-1,2-dichloroethene | 3.994 | 96 | 11412 | 4.26 | ug/L | | 98 |
| 38) propionitrile | 4.006 | 54 | 26804 | 47.07 | ug/L | | 84 |
| 39) methyl acrylate | 4.019 | 85 | 3333 | 4.87 | ug/L | # | 49 |
| 40) bromochloromethane | 4.160 | 128 | 5304 | 4.34 | ug/L | # | 77 |
| 41) tetrahydrofuran | 4.170 | 72 | 2829 | 4.06 | ug/L | # | 83 |
| 42) chloroform | 4.212 | 83 | 21338 | 4.55 | ug/L | | 98 |
| 44) methacrylonitrile | 4.115 | 67 | 7723 | 4.71 | ug/L | | 97 |
| 45) 1,1,1-trichloroethane | 4.350 | 97 | 16946 | 4.03 | ug/L | | 84 |
| 46) cyclohexane | 4.407 | 84 | 15314 | 4.17 | ug/L | # | 80 |
| 47) 1,1-dichloropropene | 4.459 | 75 | 12819 | 3.81 | ug/L | | 87 |
| 48) carbon tetrachloride | 4.465 | 117 | 15209 | 4.60 | ug/L | | 89 |
| 49) isopropyl acetate | 4.578 | 87 | 3701 | 4.44 | ug/L | # | 79 |
| 50) tert amyl alcohol | 4.549 | 55 | 7212 | 30.70 | ug/L | | 96 |
| 53) tert-amyl methyl ether | 4.667 | 73 | 37339 | 4.88 | ug/L | | 94 |
| 54) 2,2,4-trimethylpentane | 4.667 | 57 | 26526 | 4.34 | ug/L | | 94 |
| 55) n-butyl alcohol | 4.934 | 56 | 43558 | 262.94 | ug/L | | 95 |
| 56) benzene | 4.606 | 78 | 40650 | 4.57 | ug/L | | 96 |
| 57) heptane | 4.780 | 57 | 5554 | 4.00 | ug/L | | 93 |
| 58) 1,2-dichloroethane | 4.632 | 62 | 15638 | 4.51 | ug/L | | 99 |
| 59) trichloroethene | 5.081 | 95 | 10690 | 4.13 | ug/L | | 78 |
| 60) ethyl acrylate | 5.094 | 55 | 20359 | 4.77 | ug/L | | 98 |
| 61) 2-nitropropane | 5.630 | 41 | 6581 | 4.77 | ug/L | | 88 |
| 62) 2-chloroethyl vinyl ether | 5.653 | 63 | 34303 | 22.55 | ug/L | | 96 |
| 63) methyl methacrylate | 5.277 | 100 | 4808 | 4.79 | ug/L | # | 62 |
| 64) 1,2-dichloropropane | 5.277 | 63 | 10071 | 4.45 | ug/L | | 92 |
| 65) methylcyclohexane | 5.264 | 83 | 17300 | 4.15 | ug/L | | 93 |
| 66) dibromomethane | 5.344 | 93 | 7876 | 4.87 | ug/L | | 88 |
| 67) bromodichloromethane | 5.466 | 83 | 16853 | 4.57 | ug/L | | 94 |
| 68) cis-1,3-dichloropropene | 5.800 | 75 | 19287 | 4.38 | ug/L | | 92 |
| 69) epichlorohydrin | 5.707 | 57 | 11669 | 25.20 | ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 5.900 | 58 | 30616 | 20.47 | ug/L | | 95 |
| 71) 3-methyl-1-butanol | 5.919 | 70 | 18846 | 109.03 | ug/L | # | 85 |
| 74) toluene | 6.086 | 92 | 25363 | 4.54 | ug/L | | 96 |
| 75) trans-1,3-dichloropropene | 6.256 | 75 | 18400 | 4.61 | ug/L | | 98 |
| 76) ethyl methacrylate | 6.272 | 69 | 18100 | 4.66 | ug/L | | 98 |
| 77) 1,1,2-trichloroethane | 6.426 | 83 | 9185 | 4.62 | ug/L | | 94 |
| 78) 2-hexanone | 6.590 | 58 | 32248 | 22.06 | ug/L | | 89 |
| 79) tetrachloroethene | 6.516 | 166 | 10334 | 4.58 | ug/L | | 96 |
| 80) 1,3-dichloropropane | 6.570 | 76 | 18674 | 4.90 | ug/L | | 98 |
| 81) butyl acetate | 6.670 | 56 | 11166 | 5.46 | ug/L | | 88 |
| 82) dibromochloromethane | 6.756 | 129 | 12569 | 5.01 | ug/L | | 85 |
| 83) 1,2-dibromoethane | 6.878 | 107 | 12901 | 4.99 | ug/L | | 99 |
| 84) n-butyl ether | 7.340 | 57 | 40720 | 4.74 | ug/L | | 98 |
| 85) chlorobenzene | 7.305 | 112 | 26778 | 4.45 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 7.369 | 131 | 10600 | 5.18 | ug/L | | 86 |
| 87) ethylbenzene | 7.376 | 91 | 47879 | 4.90 | ug/L | | 98 |
| 88) m,p-xylene | 7.491 | 106 | 36887 | 9.47 | ug/L | | 98 |
| 89) o-xylene | 7.844 | 106 | 18526 | 4.52 | ug/L | | 91 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342972.D
Acq On : 15 Jun 2022 5:58 pm
Operator : BridgetK
Sample : ic10355-4
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 16 15:15:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

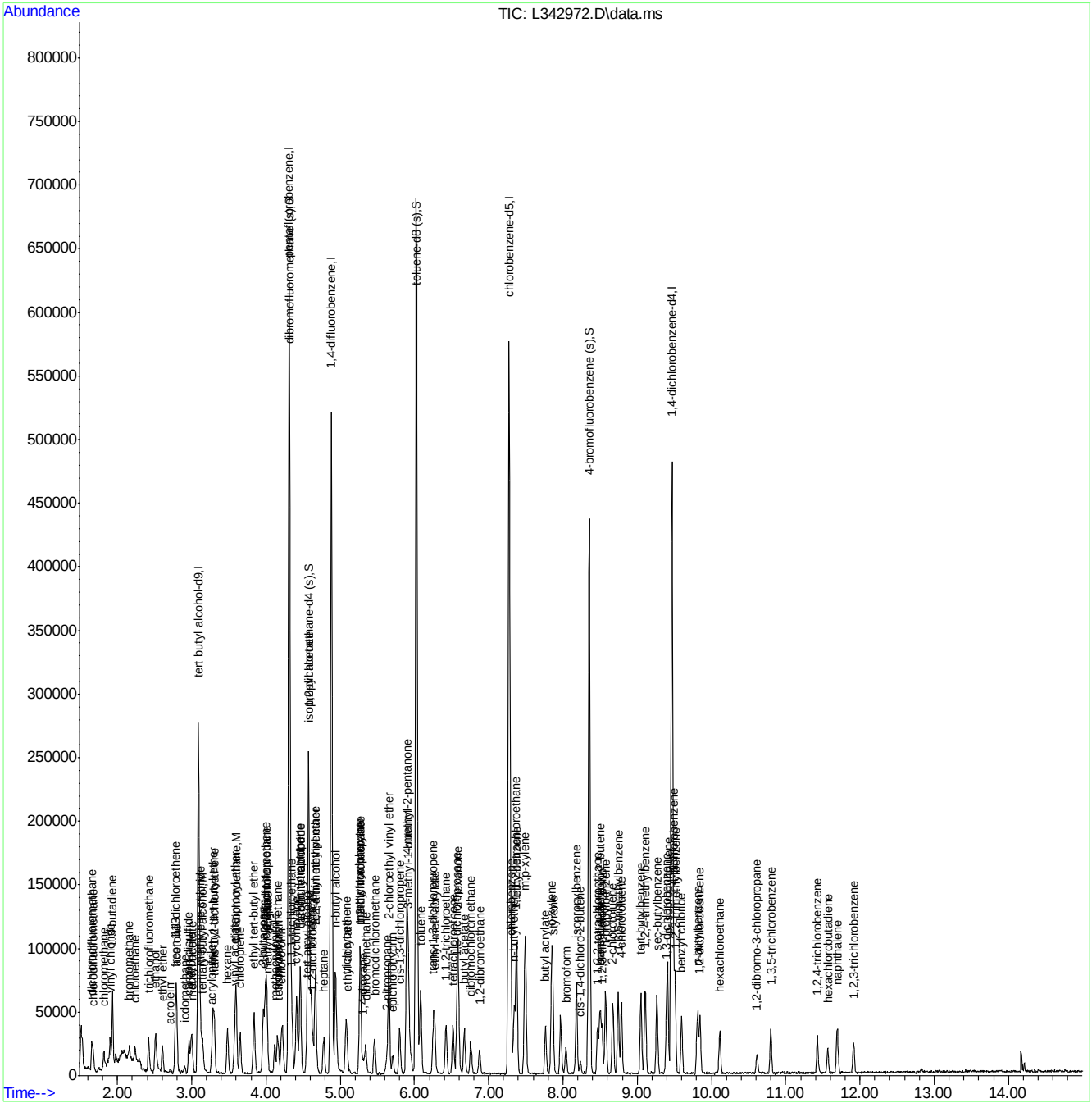
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 90) butyl acrylate | 7.764 | 55 | 24700 | 4.83 | ug/L | | 96 |
| 91) styrene | 7.867 | 104 | 31133 | 4.77 | ug/L | | 96 |
| 92) bromoform | 8.043 | 173 | 8900 | 4.81 | ug/L | | 99 |
| 93) isopropylbenzene | 8.181 | 105 | 47667 | 4.66 | ug/L | | 93 |
| 94) cis-1,4-dichloro-2-butene | 8.229 | 88 | 3032 | 3.86 | ug/L | # | 84 |
| 97) bromobenzene | 8.499 | 156 | 10837 | 4.60 | ug/L | | 89 |
| 98) 1,1,2,2-tetrachloroethane | 8.470 | 83 | 18694 | 5.09 | ug/L | | 91 |
| 99) trans-1,4-dichloro-2-b... | 8.502 | 53 | 2338 | 4.03 | ug/L | # | 81 |
| 100) 1,2,3-trichloropropane | 8.531 | 110 | 5645 | 5.17 | ug/L | | 68 |
| 101) n-propylbenzene | 8.576 | 91 | 53660 | 4.75 | ug/L | | 98 |
| 102) 2-chlorotoluene | 8.669 | 126 | 10168 | 4.55 | ug/L | | 93 |
| 103) 4-chlorotoluene | 8.788 | 126 | 10314 | 4.72 | ug/L | | 93 |
| 104) 1,3,5-trimethylbenzene | 8.749 | 105 | 37180 | 4.55 | ug/L | | 95 |
| 105) tert-butylbenzene | 9.048 | 119 | 30984 | 4.41 | ug/L | | 91 |
| 106) 1,2,4-trimethylbenzene | 9.109 | 105 | 38948 | 4.67 | ug/L | | 96 |
| 107) sec-butylbenzene | 9.266 | 105 | 44588 | 4.48 | ug/L | | 97 |
| 108) 1,3-dichlorobenzene | 9.391 | 146 | 19043 | 4.50 | ug/L | | 99 |
| 109) p-isopropyltoluene | 9.413 | 119 | 35418 | 4.51 | ug/L | | 98 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 18300 | 4.48 | ug/L | | 92 |
| 111) 1,2,3-trimethylbenzene | 9.516 | 105 | 37811 | 4.74 | ug/L | | 86 |
| 112) 1,2-dichlorobenzene | 9.843 | 146 | 17857 | 4.52 | ug/L | | 93 |
| 113) n-butylbenzene | 9.811 | 92 | 16580 | 4.01 | ug/L | | 94 |
| 114) 1,2-dibromo-3-chloropr... | 10.610 | 157 | 4535 | 4.63 | ug/L | | 85 |
| 115) 1,3,5-trichlorobenzene | 10.800 | 180 | 11434 | 3.99 | ug/L | | 93 |
| 116) 1,2,4-trichlorobenzene | 11.425 | 180 | 8340 | 3.45 | ug/L | | 96 |
| 117) hexachlorobutadiene | 11.570 | 225 | 3663 | 4.10 | ug/L | | 71 |
| 118) naphthalene | 11.698 | 128 | 29489 | 3.87 | ug/L | | 96 |
| 119) 1,2,3-trichlorobenzene | 11.916 | 180 | 7809 | 3.74 | ug/L | | 77 |
| 120) hexachloroethane | 10.116 | 119 | 6392 | 3.91 | ug/L | | 89 |
| 121) benzyl chloride | 9.596 | 91 | 33999 | 4.81 | ug/L | | 94 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342972.D
Acq On : 15 Jun 2022 5:58 pm
Operator : BridgetK
Sample : ic10355-4
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 16 15:15:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342973.D
Acq On : 15 Jun 2022 6:22 pm
Operator : BridgetK
Sample : ic10355-8
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 16 08:28:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.095 | 65 | 268003 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.314 | 168 | 241805 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.886 | 114 | 362388 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 316508 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.465 | 152 | 124571 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.324 | 113 | 109709 | 49.51 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.02% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.578 | 65 | 138961 | 53.75 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 107.50% | | | | |
| 73) toluene-d8 (s) | 6.031 | 98 | 439836 | 52.96 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 105.92% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 159258 | 49.54 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.08% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.316 | 88 | 13510 | 210.39 | ug/L | | 94 |
| 3) ethanol | 2.511 | 45 | 50446 | 815.54 | ug/L | | 88 |
| 4) tertiary butyl alcohol | 3.150 | 59 | 29869 | 39.95 | ug/L | | 95 |
| 6) chlorodifluoromethane | 1.670 | 51 | 20175 | 7.62 | ug/L | # | 95 |
| 7) dichlorodifluoromethane | 1.657 | 85 | 27799 | 7.04 | ug/L | | 97 |
| 8) chloromethane | 1.821 | 50 | 19640 | 7.54 | ug/L | | 89 |
| 9) vinyl chloride | 1.901 | 62 | 23738 | 7.51 | ug/L | | 99 |
| 10) 1.3-butadiene | 1.933 | 54 | 27528 | 8.54 | ug/L | | 98 |
| 11) bromomethane | 2.155 | 96 | 10748 | 8.05 | ug/L | | 85 |
| 12) chloroethane | 2.238 | 64 | 13682 | 7.61 | ug/L | | 94 |
| 13) trichlorofluoromethane | 2.424 | 101 | 35045 | 7.77 | ug/L | | 99 |
| 14) ethyl ether | 2.607 | 74 | 13343 | 7.84 | ug/L | | 89 |
| 15) acrolein | 2.713 | 56 | 4183 | 7.36 | ug/L | | 87 |
| 16) freon 113 | 2.781 | 151 | 13895 | 7.55 | ug/L | # | 80 |
| 17) 1,1-dichloroethene | 2.790 | 96 | 17549 | 7.82 | ug/L | | 95 |
| 18) acetone | 2.800 | 58 | 12426 | 31.87 | ug/L | # | 71 |
| 19) acetonitrile | 2.996 | 40 | 20134 | 80.12 | ug/L | | 97 |
| 20) iodomethane | 2.906 | 142 | 10430 | 4.99 | ug/L | | 92 |
| 21) iso-butyl alcohol | 4.465 | 43 | 20606 | 90.82 | ug/L | | 93 |
| 22) carbon disulfide | 2.967 | 76 | 54317 | 8.26 | ug/L | | 96 |
| 23) methylene chloride | 3.121 | 84 | 20763 | 8.42 | ug/L | | 85 |
| 24) methyl acetate | 3.012 | 74 | 5952 | 7.67 | ug/L | # | 73 |
| 25) methyl tert butyl ether | 3.291 | 73 | 67918 | 7.95 | ug/L | | 96 |
| 26) trans-1,2-dichloroethene | 3.307 | 96 | 19206 | 8.09 | ug/L | | 92 |
| 27) hexane | 3.486 | 57 | 26201 | 7.79 | ug/L | | 95 |
| 28) di-isopropyl ether | 3.599 | 45 | 55048 | 8.02 | ug/L | | 87 |
| 29) ethyl tert-butyl ether | 3.843 | 59 | 65642 | 8.08 | ug/L | | 98 |
| 30) 2-butanone | 3.968 | 72 | 18742 | 31.59 | ug/L | # | 80 |
| 31) 1,1-dichloroethane | 3.605 | 63 | 33501 | 7.89 | ug/L | | 96 |
| 32) chloroprene | 3.660 | 53 | 27751 | 8.29 | ug/L | | 94 |
| 33) acrylonitrile | 3.268 | 53 | 10257 | 7.35 | ug/L | | 97 |
| 34) vinyl acetate | 3.576 | 86 | 5961 | 7.67 | ug/L | # | 71 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342973.D
Acq On : 15 Jun 2022 6:22 pm
Operator : BridgetK
Sample : ic10355-8
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 16 08:28:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) ethyl acetate | 3.971 | 45 | 5042 | 8.90 | ug/L | | 97 |
| 36) 2,2-dichloropropane | 4.003 | 77 | 33002 | 8.42 | ug/L | | 98 |
| 37) cis-1,2-dichloroethene | 3.997 | 96 | 21757 | 8.25 | ug/L | | 96 |
| 38) propionitrile | 4.010 | 54 | 45467 | 81.11 | ug/L | | 79 |
| 39) methyl acrylate | 4.022 | 85 | 5512 | 8.18 | ug/L | # | 70 |
| 40) bromochloromethane | 4.160 | 128 | 9760 | 8.11 | ug/L | | 91 |
| 41) tetrahydrofuran | 4.176 | 72 | 5557 | 8.11 | ug/L | | 87 |
| 42) chloroform | 4.212 | 83 | 40399 | 8.76 | ug/L | | 97 |
| 44) methacrylonitrile | 4.119 | 67 | 12910 | 8.00 | ug/L | | 87 |
| 45) 1,1,1-trichloroethane | 4.353 | 97 | 32572 | 7.86 | ug/L | | 91 |
| 46) cyclohexane | 4.414 | 84 | 28949 | 8.00 | ug/L | | 99 |
| 47) 1,1-dichloropropene | 4.459 | 75 | 26114 | 7.89 | ug/L | | 94 |
| 48) carbon tetrachloride | 4.472 | 117 | 27381 | 8.41 | ug/L | | 92 |
| 49) isopropyl acetate | 4.578 | 87 | 6508 | 7.93 | ug/L | | 94 |
| 50) tert amyl alcohol | 4.558 | 55 | 11511 | 49.77 | ug/L | # | 81 |
| 53) tert-amyl methyl ether | 4.667 | 73 | 65933 | 8.54 | ug/L | | 95 |
| 54) 2,2,4-trimethylpentane | 4.674 | 57 | 50834 | 8.25 | ug/L | | 98 |
| 55) n-butyl alcohol | 4.940 | 56 | 66800 | 399.64 | ug/L | | 97 |
| 56) benzene | 4.610 | 78 | 74628 | 8.31 | ug/L | | 95 |
| 57) heptane | 4.786 | 57 | 10688 | 7.63 | ug/L | | 89 |
| 58) 1,2-dichloroethane | 4.632 | 62 | 28808 | 8.24 | ug/L | | 98 |
| 59) trichloroethene | 5.081 | 95 | 19873 | 7.62 | ug/L | | 94 |
| 60) ethyl acrylate | 5.094 | 55 | 33973 | 7.89 | ug/L | | 95 |
| 61) 2-nitropropane | 5.624 | 41 | 9982 | 7.17 | ug/L | | 89 |
| 62) 2-chloroethyl vinyl ether | 5.656 | 63 | 60623 | 39.50 | ug/L | | 98 |
| 63) methyl methacrylate | 5.274 | 100 | 7435 | 7.34 | ug/L | # | 91 |
| 64) 1,2-dichloropropane | 5.277 | 63 | 18437 | 8.08 | ug/L | | 94 |
| 65) methylcyclohexane | 5.271 | 83 | 32860 | 7.81 | ug/L | | 92 |
| 66) dibromomethane | 5.348 | 93 | 14003 | 8.58 | ug/L | | 92 |
| 67) bromodichloromethane | 5.466 | 83 | 29817 | 8.01 | ug/L | | 85 |
| 68) cis-1,3-dichloropropene | 5.803 | 75 | 34292 | 7.73 | ug/L | | 97 |
| 69) epichlorohydrin | 5.713 | 57 | 18574 | 39.75 | ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 5.903 | 58 | 47588 | 31.53 | ug/L | | 94 |
| 71) 3-methyl-1-butanol | 5.919 | 70 | 29730 | 170.47 | ug/L | | 95 |
| 74) toluene | 6.089 | 92 | 46375 | 8.29 | ug/L | | 96 |
| 75) trans-1,3-dichloropropene | 6.259 | 75 | 31794 | 7.95 | ug/L | | 93 |
| 76) ethyl methacrylate | 6.272 | 69 | 33171 | 8.52 | ug/L | | 90 |
| 77) 1,1,2-trichloroethane | 6.429 | 83 | 16322 | 8.19 | ug/L | | 94 |
| 78) 2-hexanone | 6.590 | 58 | 49521 | 33.81 | ug/L | | 95 |
| 79) tetrachloroethene | 6.525 | 166 | 19131 | 8.46 | ug/L | | 95 |
| 80) 1,3-dichloropropane | 6.573 | 76 | 32880 | 8.61 | ug/L | | 94 |
| 81) butyl acetate | 6.676 | 56 | 16862 | 8.22 | ug/L | | 93 |
| 82) dibromochloromethane | 6.760 | 129 | 20481 | 8.15 | ug/L | | 98 |
| 83) 1,2-dibromoethane | 6.878 | 107 | 21987 | 8.48 | ug/L | | 97 |
| 84) n-butyl ether | 7.344 | 57 | 71808 | 8.34 | ug/L | | 98 |
| 85) chlorobenzene | 7.302 | 112 | 48684 | 8.08 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 7.379 | 131 | 17961 | 8.77 | ug/L | | 83 |
| 87) ethylbenzene | 7.379 | 91 | 87094 | 8.89 | ug/L | | 96 |
| 88) m,p-xylene | 7.491 | 106 | 65789 | 16.86 | ug/L | | 96 |
| 89) o-xylene | 7.847 | 106 | 34409 | 8.38 | ug/L | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342973.D
Acq On : 15 Jun 2022 6:22 pm
Operator : BridgetK
Sample : ic10355-8
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 16 08:28:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

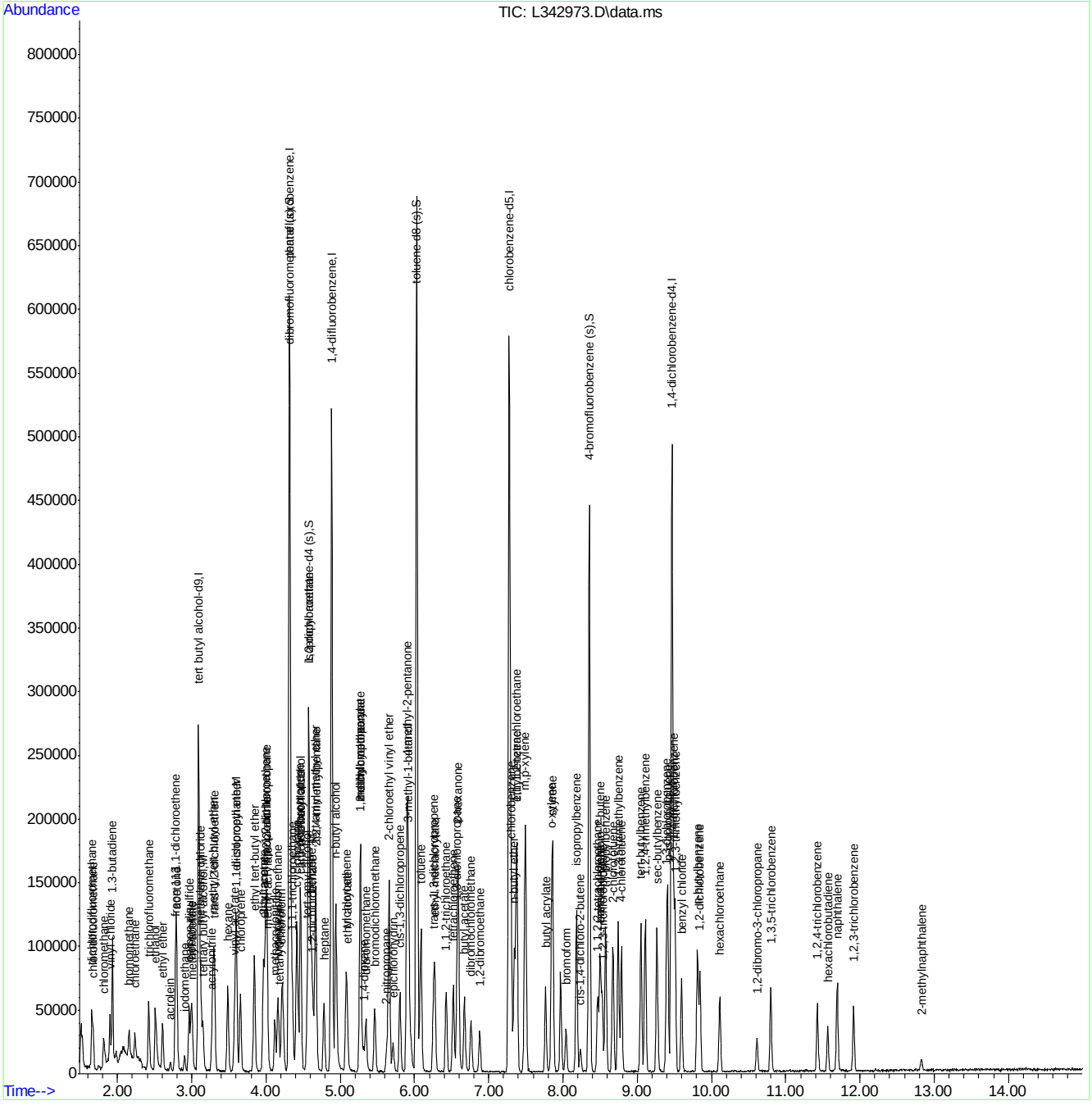
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 90) butyl acrylate | 7.770 | 55 | 41585 | 8.12 | ug/L | | 94 |
| 91) styrene | 7.863 | 104 | 56611 | 8.66 | ug/L | | 98 |
| 92) bromoform | 8.043 | 173 | 14221 | 7.67 | ug/L | | 88 |
| 93) isopropylbenzene | 8.184 | 105 | 84552 | 8.26 | ug/L | | 93 |
| 94) cis-1,4-dichloro-2-butene | 8.232 | 88 | 4833 | 6.13 | ug/L | | 88 |
| 97) bromobenzene | 8.505 | 156 | 19548 | 8.13 | ug/L | # | 81 |
| 98) 1,1,2,2-tetrachloroethane | 8.467 | 83 | 30551 | 8.16 | ug/L | | 95 |
| 99) trans-1,4-dichloro-2-b... | 8.505 | 53 | 3913 | 6.61 | ug/L | # | 83 |
| 100) 1,2,3-trichloropropane | 8.534 | 110 | 9362 | 8.40 | ug/L | | 95 |
| 101) n-propylbenzene | 8.576 | 91 | 95404 | 8.29 | ug/L | | 99 |
| 102) 2-chlorotoluene | 8.672 | 126 | 17873 | 7.84 | ug/L | | 95 |
| 103) 4-chlorotoluene | 8.791 | 126 | 18235 | 8.18 | ug/L | # | 77 |
| 104) 1,3,5-trimethylbenzene | 8.746 | 105 | 66923 | 8.02 | ug/L | | 98 |
| 105) tert-butylbenzene | 9.051 | 119 | 56175 | 7.84 | ug/L | | 96 |
| 106) 1,2,4-trimethylbenzene | 9.108 | 105 | 67782 | 7.97 | ug/L | | 100 |
| 107) sec-butylbenzene | 9.266 | 105 | 80248 | 7.90 | ug/L | | 98 |
| 108) 1,3-dichlorobenzene | 9.397 | 146 | 32967 | 7.64 | ug/L | | 95 |
| 109) p-isopropyltoluene | 9.413 | 119 | 65282 | 8.14 | ug/L | | 95 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 31170 | 7.49 | ug/L | | 99 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 65060 | 8.00 | ug/L | | 99 |
| 112) 1,2-dichlorobenzene | 9.840 | 146 | 31859 | 7.91 | ug/L | | 92 |
| 113) n-butylbenzene | 9.811 | 92 | 31046 | 7.36 | ug/L | | 98 |
| 114) 1,2-dibromo-3-chloropr... | 10.617 | 157 | 7203 | 7.22 | ug/L | | 91 |
| 115) 1,3,5-trichlorobenzene | 10.800 | 180 | 19872 | 6.81 | ug/L | | 87 |
| 116) 1,2,4-trichlorobenzene | 11.425 | 180 | 15981 | 6.49 | ug/L | | 91 |
| 117) hexachlorobutadiene | 11.567 | 225 | 6241 | 6.85 | ug/L | | 93 |
| 118) naphthalene | 11.695 | 128 | 53517 | 6.89 | ug/L | | 98 |
| 119) 1,2,3-trichlorobenzene | 11.916 | 180 | 14972 | 7.04 | ug/L | | 99 |
| 120) hexachloroethane | 10.116 | 119 | 12601 | 7.56 | ug/L | | 92 |
| 121) benzyl chloride | 9.599 | 91 | 56003 | 7.78 | ug/L | | 96 |
| 122) 2-methylnaphthalene | 12.828 | 142 | 4436 | 1.48 | ug/L | | 90 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342973.D
Acq On : 15 Jun 2022 6:22 pm
Operator : BridgetK
Sample : ic10355-8
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 16 08:28:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342974.D
Acq On : 15 Jun 2022 6:45 pm
Operator : BridgetK
Sample : ic10355-20
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 16 08:28:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.092 | 65 | 276462 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.314 | 168 | 233148 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.882 | 114 | 348731 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 318149 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 123050 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.324 | 113 | 107069 | 50.11 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.22% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.574 | 65 | 127430 | 51.22 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 102.44% | | | | |
| 73) toluene-d8 (s) | 6.028 | 98 | 425337 | 50.95 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.90% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 159075 | 50.09 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.18% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.312 | 88 | 31901 | 481.60 | ug/L | | 94 |
| 3) ethanol | 2.514 | 45 | 125364 | 1964.71 | ug/L | | 98 |
| 4) tertiary butyl alcohol | 3.146 | 59 | 74314 | 96.34 | ug/L | | 99 |
| 6) chlorodifluoromethane | 1.673 | 51 | 51414 | 20.13 | ug/L | # | 93 |
| 7) dichlorodifluoromethane | 1.654 | 85 | 75041 | 19.71 | ug/L | | 98 |
| 8) chloromethane | 1.818 | 50 | 50712 | 20.19 | ug/L | | 95 |
| 9) vinyl chloride | 1.901 | 62 | 61406 | 20.14 | ug/L | | 99 |
| 10) 1.3-butadiene | 1.930 | 54 | 64462 | 20.74 | ug/L | | 98 |
| 11) bromomethane | 2.151 | 96 | 23990 | 18.63 | ug/L | | 95 |
| 12) chloroethane | 2.235 | 64 | 33577 | 19.37 | ug/L | | 97 |
| 13) trichlorofluoromethane | 2.421 | 101 | 88057 | 20.25 | ug/L | | 98 |
| 14) ethyl ether | 2.607 | 74 | 32267 | 19.67 | ug/L | | 97 |
| 15) acrolein | 2.707 | 56 | 10726 | 19.57 | ug/L | | 88 |
| 16) freon 113 | 2.780 | 151 | 34701 | 19.56 | ug/L | | 94 |
| 17) 1,1-dichloroethene | 2.787 | 96 | 44173 | 20.42 | ug/L | | 98 |
| 18) acetone | 2.800 | 58 | 30330 | 80.67 | ug/L | | 98 |
| 19) acetonitrile | 2.989 | 40 | 50277 | 207.50 | ug/L | | 99 |
| 20) iodomethane | 2.902 | 142 | 32908 | 16.32 | ug/L | | 92 |
| 21) iso-butyl alcohol | 4.459 | 43 | 47478 | 217.03 | ug/L | | 95 |
| 22) carbon disulfide | 2.963 | 76 | 131386 | 20.71 | ug/L | | 99 |
| 23) methylene chloride | 3.117 | 84 | 47169 | 19.84 | ug/L | | 96 |
| 24) methyl acetate | 3.008 | 74 | 15048 | 20.10 | ug/L | # | 85 |
| 25) methyl tert butyl ether | 3.287 | 73 | 163588 | 19.86 | ug/L | | 100 |
| 26) trans-1,2-dichloroethene | 3.303 | 96 | 45861 | 20.03 | ug/L | | 92 |
| 27) hexane | 3.483 | 57 | 64616 | 19.92 | ug/L | | 96 |
| 28) di-isopropyl ether | 3.592 | 45 | 133145 | 20.12 | ug/L | | 95 |
| 29) ethyl tert-butyl ether | 3.843 | 59 | 156143 | 19.93 | ug/L | | 96 |
| 30) 2-butanone | 3.961 | 72 | 45681 | 79.87 | ug/L | | 96 |
| 31) 1,1-dichloroethane | 3.602 | 63 | 81110 | 19.80 | ug/L | | 93 |
| 32) chloroprene | 3.653 | 53 | 66355 | 20.56 | ug/L | | 95 |
| 33) acrylonitrile | 3.265 | 53 | 27270 | 20.27 | ug/L | | 98 |
| 34) vinyl acetate | 3.576 | 86 | 14309 | 19.09 | ug/L | # | 79 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342974.D
Acq On : 15 Jun 2022 6:45 pm
Operator : BridgetK
Sample : ic10355-20
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 16 08:28:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) ethyl acetate | 3.971 | 45 | 11568 | 21.17 | ug/L | # | 66 |
| 36) 2,2-dichloropropane | 3.997 | 77 | 81101 | 21.46 | ug/L | | 94 |
| 37) cis-1,2-dichloroethene | 3.990 | 96 | 51623 | 20.30 | ug/L | | 93 |
| 38) propionitrile | 4.009 | 54 | 114716 | 212.24 | ug/L | | 95 |
| 39) methyl acrylate | 4.009 | 85 | 13639 | 21.00 | ug/L | # | 82 |
| 40) bromochloromethane | 4.154 | 128 | 21859 | 18.84 | ug/L | | 98 |
| 41) tetrahydrofuran | 4.167 | 72 | 14031 | 21.23 | ug/L | | 94 |
| 42) chloroform | 4.212 | 83 | 89892 | 20.22 | ug/L | | 93 |
| 44) methacrylonitrile | 4.115 | 67 | 31040 | 19.95 | ug/L | | 98 |
| 45) 1,1,1-trichloroethane | 4.353 | 97 | 78511 | 19.66 | ug/L | | 99 |
| 46) cyclohexane | 4.411 | 84 | 71551 | 20.51 | ug/L | | 93 |
| 47) 1,1-dichloropropene | 4.455 | 75 | 64655 | 20.26 | ug/L | | 96 |
| 48) carbon tetrachloride | 4.465 | 117 | 67497 | 21.51 | ug/L | | 98 |
| 49) isopropyl acetate | 4.574 | 87 | 16078 | 20.33 | ug/L | | 92 |
| 50) tert amyl alcohol | 4.552 | 55 | 25265 | 113.29 | ug/L | # | 82 |
| 53) tert-amyl methyl ether | 4.667 | 73 | 155299 | 20.90 | ug/L | | 97 |
| 54) 2,2,4-trimethylpentane | 4.667 | 57 | 125593 | 21.18 | ug/L | | 98 |
| 55) n-butyl alcohol | 4.937 | 56 | 167848 | 1043.51 | ug/L | | 98 |
| 56) benzene | 4.606 | 78 | 181807 | 21.04 | ug/L | | 97 |
| 57) heptane | 4.780 | 57 | 26622 | 19.75 | ug/L | | 96 |
| 58) 1,2-dichloroethane | 4.629 | 62 | 68082 | 20.23 | ug/L | | 98 |
| 59) trichloroethene | 5.075 | 95 | 50768 | 20.22 | ug/L | | 94 |
| 60) ethyl acrylate | 5.094 | 55 | 83645 | 20.19 | ug/L | | 98 |
| 61) 2-nitropropane | 5.627 | 41 | 25119 | 18.76 | ug/L | | 97 |
| 62) 2-chloroethyl vinyl ether | 5.656 | 63 | 148316 | 100.43 | ug/L | | 97 |
| 63) methyl methacrylate | 5.271 | 100 | 19579 | 20.10 | ug/L | | 94 |
| 64) 1,2-dichloropropane | 5.277 | 63 | 45071 | 20.52 | ug/L | | 96 |
| 65) methylcyclohexane | 5.264 | 83 | 80796 | 19.94 | ug/L | | 97 |
| 66) dibromomethane | 5.348 | 93 | 30898 | 19.68 | ug/L | | 92 |
| 67) bromodichloromethane | 5.463 | 83 | 69373 | 19.38 | ug/L | | 99 |
| 68) cis-1,3-dichloropropene | 5.803 | 75 | 83802 | 19.62 | ug/L | | 95 |
| 69) epichlorohydrin | 5.713 | 57 | 47009 | 104.55 | ug/L | | 97 |
| 70) 4-methyl-2-pentanone | 5.899 | 58 | 120995 | 83.30 | ug/L | | 96 |
| 71) 3-methyl-1-butanol | 5.919 | 70 | 72982 | 434.86 | ug/L | | 99 |
| 74) toluene | 6.082 | 92 | 114083 | 20.28 | ug/L | | 98 |
| 75) trans-1,3-dichloropropene | 6.252 | 75 | 78736 | 19.59 | ug/L | | 95 |
| 76) ethyl methacrylate | 6.275 | 69 | 80657 | 20.62 | ug/L | | 97 |
| 77) 1,1,2-trichloroethane | 6.423 | 83 | 40669 | 20.31 | ug/L | | 94 |
| 78) 2-hexanone | 6.589 | 58 | 124188 | 84.35 | ug/L | | 95 |
| 79) tetrachloroethene | 6.519 | 166 | 46237 | 20.33 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 6.570 | 76 | 78639 | 20.48 | ug/L | | 98 |
| 81) butyl acetate | 6.673 | 56 | 42592 | 20.67 | ug/L | | 94 |
| 82) dibromochloromethane | 6.759 | 129 | 51085 | 20.21 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 6.875 | 107 | 51863 | 19.90 | ug/L | | 93 |
| 84) n-butyl ether | 7.343 | 57 | 176992 | 20.44 | ug/L | | 99 |
| 85) chlorobenzene | 7.302 | 112 | 122587 | 20.25 | ug/L | | 99 |
| 86) 1,1,1,2-tetrachloroethane | 7.372 | 131 | 43016 | 20.89 | ug/L | | 96 |
| 87) ethylbenzene | 7.376 | 91 | 211999 | 21.53 | ug/L | | 98 |
| 88) m,p-xylene | 7.491 | 106 | 163588 | 41.70 | ug/L | | 98 |
| 89) o-xylene | 7.847 | 106 | 83773 | 20.29 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342974.D
Acq On : 15 Jun 2022 6:45 pm
Operator : BridgetK
Sample : ic10355-20
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 16 08:28:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

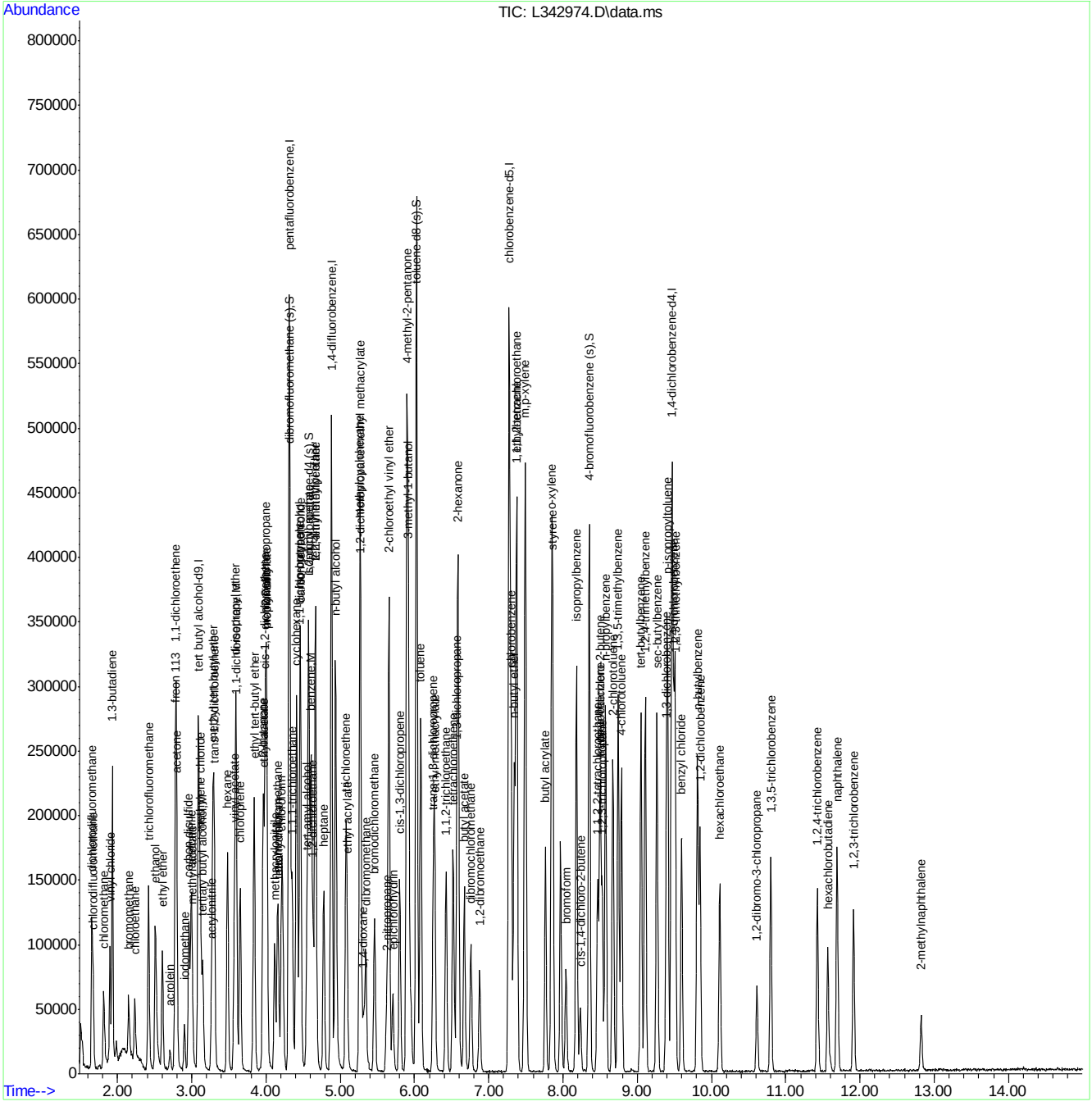
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 90) butyl acrylate | 7.764 | 55 | 102586 | 19.94 | ug/L | | 97 |
| 91) styrene | 7.863 | 104 | 137086 | 20.87 | ug/L | | 94 |
| 92) bromoform | 8.040 | 173 | 37690 | 20.22 | ug/L | | 93 |
| 93) isopropylbenzene | 8.181 | 105 | 211861 | 20.58 | ug/L | | 97 |
| 94) cis-1,4-dichloro-2-butene | 8.239 | 88 | 13665 | 17.25 | ug/L | | 97 |
| 97) bromobenzene | 8.499 | 156 | 44912 | 18.92 | ug/L | | 99 |
| 98) 1,1,2,2-tetrachloroethane | 8.467 | 83 | 73376 | 19.84 | ug/L | | 99 |
| 99) trans-1,4-dichloro-2-b... | 8.505 | 53 | 11020 | 18.84 | ug/L | # | 83 |
| 100) 1,2,3-trichloropropane | 8.528 | 110 | 22800 | 20.71 | ug/L | | 97 |
| 101) n-propylbenzene | 8.576 | 91 | 231447 | 20.35 | ug/L | | 100 |
| 102) 2-chlorotoluene | 8.672 | 126 | 44147 | 19.60 | ug/L | # | 83 |
| 103) 4-chlorotoluene | 8.791 | 126 | 44855 | 20.37 | ug/L | | 89 |
| 104) 1,3,5-trimethylbenzene | 8.743 | 105 | 167556 | 20.34 | ug/L | | 99 |
| 105) tert-butylbenzene | 9.051 | 119 | 138214 | 19.52 | ug/L | | 98 |
| 106) 1,2,4-trimethylbenzene | 9.108 | 105 | 168159 | 20.02 | ug/L | | 99 |
| 107) sec-butylbenzene | 9.266 | 105 | 202244 | 20.16 | ug/L | | 98 |
| 108) 1,3-dichlorobenzene | 9.391 | 146 | 81598 | 19.15 | ug/L | | 99 |
| 109) p-isopropyltoluene | 9.410 | 119 | 159112 | 20.09 | ug/L | | 99 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 77710 | 18.90 | ug/L | | 98 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 161150 | 20.05 | ug/L | | 97 |
| 112) 1,2-dichlorobenzene | 9.846 | 146 | 76755 | 19.29 | ug/L | | 99 |
| 113) n-butylbenzene | 9.811 | 92 | 79838 | 19.16 | ug/L | | 96 |
| 114) 1,2-dibromo-3-chloropr... | 10.610 | 157 | 18856 | 19.12 | ug/L | | 93 |
| 115) 1,3,5-trichlorobenzene | 10.799 | 180 | 52496 | 18.20 | ug/L | | 99 |
| 116) 1,2,4-trichlorobenzene | 11.428 | 180 | 43954 | 18.07 | ug/L | | 98 |
| 117) hexachlorobutadiene | 11.570 | 225 | 17234 | 19.14 | ug/L | | 91 |
| 118) naphthalene | 11.692 | 128 | 144346 | 18.80 | ug/L | | 98 |
| 119) 1,2,3-trichlorobenzene | 11.916 | 180 | 39157 | 18.64 | ug/L | | 91 |
| 120) hexachloroethane | 10.113 | 119 | 32158 | 19.52 | ug/L | | 94 |
| 121) benzyl chloride | 9.596 | 91 | 142607 | 20.04 | ug/L | | 97 |
| 122) 2-methylnaphthalene | 12.824 | 142 | 20540 | 6.95 | ug/L | | 91 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342974.D
Acq On : 15 Jun 2022 6:45 pm
Operator : BridgetK
Sample : ic10355-20
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 16 08:28:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342975.D
Acq On : 15 Jun 2022 7:09 pm
Operator : BridgetK
Sample : icc10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 16 08:28:45 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.095 | 65 | 252218 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.311 | 168 | 224201 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.882 | 114 | 337069 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 317858 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.465 | 152 | 121119 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.324 | 113 | 102739 | 50.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.577 | 65 | 120238 | 50.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.00% | | | | |
| 73) toluene-d8 (s) | 6.028 | 98 | 417048 | 50.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.351 | 95 | 156283 | 50.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.319 | 88 | 75539 | 1250.00 | ug/L | | 100 |
| 3) ethanol | 2.514 | 45 | 289734 | 4977.19 | ug/L | | 100 |
| 4) tertiary butyl alcohol | 3.149 | 59 | 175923 | 250.00 | ug/L | | 100 |
| 6) chlorodifluoromethane | 1.673 | 51 | 122803 | 50.00 | ug/L | # | 100 |
| 7) dichlorodifluoromethane | 1.654 | 85 | 183099 | 50.00 | ug/L | | 100 |
| 8) chloromethane | 1.814 | 50 | 120753 | 50.00 | ug/L | | 100 |
| 9) vinyl chloride | 1.901 | 62 | 146574 | 50.00 | ug/L | | 100 |
| 10) 1.3-butadiene | 1.930 | 54 | 148569 | 49.70 | ug/L | | 100 |
| 11) bromomethane | 2.148 | 96 | 61924 | 50.00 | ug/L | | 100 |
| 12) chloroethane | 2.232 | 64 | 82866 | 49.71 | ug/L | | 100 |
| 13) trichlorofluoromethane | 2.421 | 101 | 209108 | 50.00 | ug/L | | 100 |
| 14) ethyl ether | 2.607 | 74 | 78869 | 50.00 | ug/L | | 100 |
| 15) acrolein | 2.707 | 56 | 26350 | 50.00 | ug/L | | 100 |
| 16) freon 113 | 2.780 | 151 | 85572 | 50.16 | ug/L | | 100 |
| 17) 1,1-dichloroethene | 2.787 | 96 | 104002 | 50.00 | ug/L | | 100 |
| 18) acetone | 2.800 | 58 | 71864 | 198.77 | ug/L | | 100 |
| 19) acetonitrile | 2.992 | 40 | 116498 | 500.00 | ug/L | | 100 |
| 20) iodomethane | 2.902 | 142 | 96944 | 50.00 | ug/L | | 100 |
| 21) iso-butyl alcohol | 4.462 | 43 | 105184 | 500.00 | ug/L | | 100 |
| 22) carbon disulfide | 2.963 | 76 | 304298 | 49.88 | ug/L | | 100 |
| 23) methylene chloride | 3.121 | 84 | 114311 | 50.01 | ug/L | | 100 |
| 24) methyl acetate | 3.008 | 74 | 36281 | 50.39 | ug/L | | 99 |
| 25) methyl tert butyl ether | 3.287 | 73 | 395598 | 49.93 | ug/L | | 100 |
| 26) trans-1,2-dichloroethene | 3.307 | 96 | 110086 | 50.01 | ug/L | | 100 |
| 27) hexane | 3.483 | 57 | 155978 | 50.00 | ug/L | | 100 |
| 28) di-isopropyl ether | 3.592 | 45 | 317822 | 49.95 | ug/L | | 100 |
| 29) ethyl tert-butyl ether | 3.843 | 59 | 376744 | 50.00 | ug/L | | 100 |
| 30) 2-butanone | 3.961 | 72 | 110005 | 200.00 | ug/L | | 100 |
| 31) 1,1-dichloroethane | 3.602 | 63 | 196778 | 49.96 | ug/L | | 100 |
| 32) chloroprene | 3.653 | 53 | 155228 | 50.02 | ug/L | | 100 |
| 33) acrylonitrile | 3.268 | 53 | 64586 | 49.93 | ug/L | | 100 |
| 34) vinyl acetate | 3.576 | 86 | 35775 | 49.64 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342975.D
Acq On : 15 Jun 2022 7:09 pm
Operator : BridgetK
Sample : icc10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 16 08:28:45 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 35) ethyl acetate | 3.968 | 45 | 26270 | 50.00 | ug/L | 100 |
| 36) 2,2-dichloropropane | 4.000 | 77 | 181734 | 50.00 | ug/L | 100 |
| 37) cis-1,2-dichloroethene | 3.990 | 96 | 122248 | 49.99 | ug/L | 100 |
| 38) propionitrile | 4.009 | 54 | 259170 | 498.63 | ug/L | 100 |
| 39) methyl acrylate | 4.016 | 85 | 31225 | 50.01 | ug/L | 99 |
| 40) bromochloromethane | 4.157 | 128 | 55675 | 49.91 | ug/L | 100 |
| 41) tetrahydrofuran | 4.170 | 72 | 31774 | 50.00 | ug/L | 100 |
| 42) chloroform | 4.208 | 83 | 213797 | 50.00 | ug/L | 100 |
| 44) methacrylonitrile | 4.118 | 67 | 74809 | 50.00 | ug/L | 100 |
| 45) 1,1,1-trichloroethane | 4.353 | 97 | 192051 | 50.00 | ug/L | 100 |
| 46) cyclohexane | 4.414 | 84 | 167732 | 50.00 | ug/L | 100 |
| 47) 1,1-dichloropropene | 4.462 | 75 | 152247 | 49.61 | ug/L | 99 |
| 48) carbon tetrachloride | 4.465 | 117 | 150897 | 50.00 | ug/L | 100 |
| 49) isopropyl acetate | 4.577 | 87 | 38026 | 50.00 | ug/L | 100 |
| 50) tert amyl alcohol | 4.555 | 55 | 54869 | 255.86 | ug/L | 99 |
| 53) tert-amyl methyl ether | 4.667 | 73 | 357765 | 49.81 | ug/L | 100 |
| 54) 2,2,4-trimethylpentane | 4.670 | 57 | 286791 | 50.03 | ug/L | 100 |
| 55) n-butyl alcohol | 4.940 | 56 | 388676 | 2500.00 | ug/L | 100 |
| 56) benzene | 4.606 | 78 | 417634 | 50.00 | ug/L | 100 |
| 57) heptane | 4.780 | 57 | 64996 | 49.89 | ug/L | 99 |
| 58) 1,2-dichloroethane | 4.632 | 62 | 161582 | 49.68 | ug/L | 100 |
| 59) trichloroethene | 5.078 | 95 | 121362 | 50.00 | ug/L | 100 |
| 60) ethyl acrylate | 5.094 | 55 | 200243 | 50.00 | ug/L | 100 |
| 61) 2-nitropropane | 5.627 | 41 | 59937 | 46.30 | ug/L | 100 |
| 62) 2-chloroethyl vinyl ether | 5.656 | 63 | 363775 | 254.84 | ug/L | 100 |
| 63) methyl methacrylate | 5.270 | 100 | 46855 | 49.76 | ug/L | 100 |
| 64) 1,2-dichloropropane | 5.274 | 63 | 105970 | 49.91 | ug/L | 100 |
| 65) methylcyclohexane | 5.264 | 83 | 196360 | 50.14 | ug/L | 100 |
| 66) dibromomethane | 5.344 | 93 | 75879 | 50.00 | ug/L | 100 |
| 67) bromodichloromethane | 5.463 | 83 | 173027 | 50.00 | ug/L | 100 |
| 68) cis-1,3-dichloropropene | 5.803 | 75 | 206417 | 50.00 | ug/L | 100 |
| 69) epichlorohydrin | 5.713 | 57 | 111049 | 255.53 | ug/L | 96 |
| 70) 4-methyl-2-pentanone | 5.899 | 58 | 280781 | 200.00 | ug/L | 100 |
| 71) 3-methyl-1-butanol | 5.919 | 70 | 162378 | 1001.00 | ug/L | 100 |
| 74) toluene | 6.086 | 92 | 280964 | 49.99 | ug/L | 100 |
| 75) trans-1,3-dichloropropene | 6.256 | 75 | 200623 | 49.97 | ug/L | 100 |
| 76) ethyl methacrylate | 6.275 | 69 | 195554 | 50.04 | ug/L | 100 |
| 77) 1,1,2-trichloroethane | 6.426 | 83 | 100060 | 50.02 | ug/L | 100 |
| 78) 2-hexanone | 6.589 | 58 | 294135 | 199.96 | ug/L | 100 |
| 79) tetrachloroethene | 6.522 | 166 | 113608 | 50.00 | ug/L | 100 |
| 80) 1,3-dichloropropane | 6.570 | 76 | 191682 | 49.97 | ug/L | 100 |
| 81) butyl acetate | 6.670 | 56 | 103150 | 50.10 | ug/L | 100 |
| 82) dibromochloromethane | 6.763 | 129 | 126215 | 49.99 | ug/L | 100 |
| 83) 1,2-dibromoethane | 6.878 | 107 | 130155 | 49.99 | ug/L | 100 |
| 84) n-butyl ether | 7.343 | 57 | 432158 | 49.96 | ug/L | 100 |
| 85) chlorobenzene | 7.305 | 112 | 302406 | 49.99 | ug/L | 100 |
| 86) 1,1,1,2-tetrachloroethane | 7.372 | 131 | 102850 | 49.99 | ug/L | 100 |
| 87) ethylbenzene | 7.376 | 91 | 491685 | 49.98 | ug/L | 100 |
| 88) m,p-xylene | 7.491 | 106 | 391827 | 99.98 | ug/L | 100 |
| 89) o-xylene | 7.847 | 106 | 206119 | 49.98 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342975.D
Acq On : 15 Jun 2022 7:09 pm
Operator : BridgetK
Sample : icc10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 16 08:28:45 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

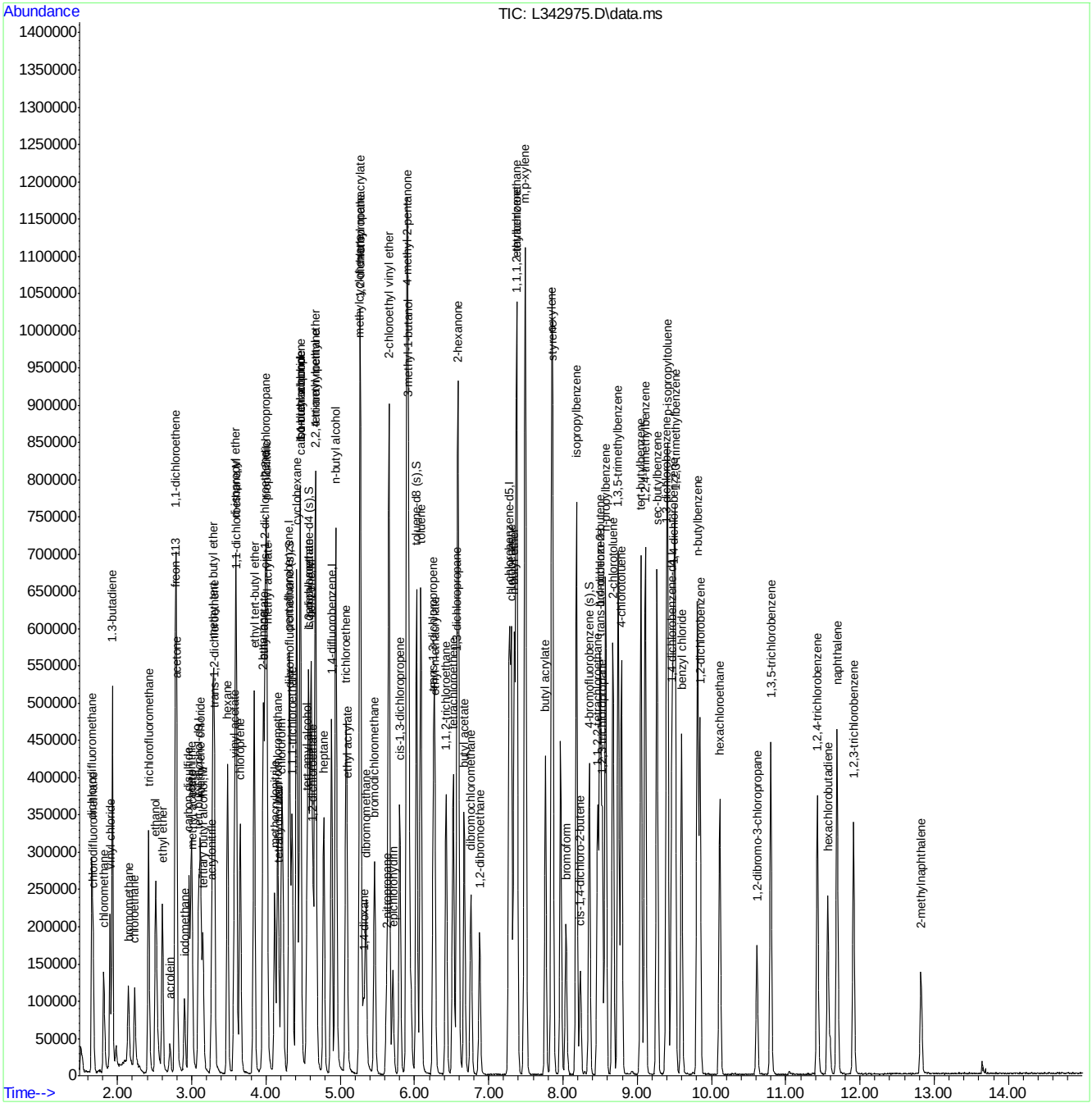
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 90) butyl acrylate | 7.764 | 55 | 256812 | 49.96 | ug/L | 100 |
| 91) styrene | 7.863 | 104 | 328035 | 49.99 | ug/L | 100 |
| 92) bromoform | 8.043 | 173 | 93097 | 49.99 | ug/L | 100 |
| 93) isopropylbenzene | 8.181 | 105 | 513976 | 49.98 | ug/L | 100 |
| 94) cis-1,4-dichloro-2-butene | 8.236 | 88 | 39445 | 49.85 | ug/L | 100 |
| 97) bromobenzene | 8.499 | 156 | 116830 | 50.00 | ug/L | 100 |
| 98) 1,1,2,2-tetrachloroethane | 8.467 | 83 | 181708 | 49.93 | ug/L | 100 |
| 99) trans-1,4-dichloro-2-b... | 8.505 | 53 | 28792 | 50.00 | ug/L | 100 |
| 100) 1,2,3-trichloropropane | 8.531 | 110 | 54173 | 50.00 | ug/L | 100 |
| 101) n-propylbenzene | 8.572 | 91 | 559784 | 50.00 | ug/L | 100 |
| 102) 2-chlorotoluene | 8.672 | 126 | 110834 | 50.00 | ug/L | 100 |
| 103) 4-chlorotoluene | 8.791 | 126 | 108386 | 50.00 | ug/L | 100 |
| 104) 1,3,5-trimethylbenzene | 8.743 | 105 | 404602 | 49.89 | ug/L | 100 |
| 105) tert-butylbenzene | 9.051 | 119 | 348490 | 50.00 | ug/L | 100 |
| 106) 1,2,4-trimethylbenzene | 9.108 | 105 | 413216 | 49.98 | ug/L | 100 |
| 107) sec-butylbenzene | 9.266 | 105 | 494264 | 50.05 | ug/L | 100 |
| 108) 1,3-dichlorobenzene | 9.394 | 146 | 209444 | 49.95 | ug/L | 100 |
| 109) p-isopropyltoluene | 9.410 | 119 | 389663 | 49.99 | ug/L | 100 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 202159 | 49.95 | ug/L | 100 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 395628 | 50.01 | ug/L | 100 |
| 112) 1,2-dichlorobenzene | 9.846 | 146 | 195778 | 50.00 | ug/L | 100 |
| 113) n-butylbenzene | 9.811 | 92 | 205111 | 50.00 | ug/L | 100 |
| 114) 1,2-dibromo-3-chloropr... | 10.613 | 157 | 48494 | 49.96 | ug/L | 100 |
| 115) 1,3,5-trichlorobenzene | 10.799 | 180 | 141872 | 49.97 | ug/L | 100 |
| 116) 1,2,4-trichlorobenzene | 11.425 | 180 | 119746 | 50.00 | ug/L | 100 |
| 117) hexachlorobutadiene | 11.566 | 225 | 44303 | 50.00 | ug/L | 100 |
| 118) naphthalene | 11.692 | 128 | 378029 | 50.03 | ug/L | 100 |
| 119) 1,2,3-trichlorobenzene | 11.913 | 180 | 103457 | 50.03 | ug/L | 100 |
| 120) hexachloroethane | 10.113 | 119 | 81061 | 50.00 | ug/L | 100 |
| 121) benzyl chloride | 9.599 | 91 | 348346 | 49.74 | ug/L | 100 |
| 122) 2-methylnaphthalene | 12.824 | 142 | 73037 | 25.11 | ug/L | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342975.D
Acq On : 15 Jun 2022 7:09 pm
Operator : BridgetK
Sample : icc10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 16 08:28:45 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342976.D
Acq On : 15 Jun 2022 7:32 pm
Operator : BridgetK
Sample : ic10355-100
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 16 08:28:47 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.101 | 65 | 226351 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.314 | 168 | 218933 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.885 | 114 | 332559 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.279 | 117 | 314205 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 117194 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 4.324 | 113 | 99625 | 49.65 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.30% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.577 | 65 | 110726 | 46.67 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 93.34% | | | | |
| 73) toluene-d8 (s) | 6.031 | 98 | 407784 | 49.46 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.92% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 153017 | 50.59 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.18% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.322 | 88 | 143680 | 2649.29 | ug/L | | 96 |
| 3) ethanol | 2.520 | 45 | 535638 | 10252.97 | ug/L | | 99 |
| 4) tertiary butyl alcohol | 3.156 | 59 | 319118 | 505.32 | ug/L | | 98 |
| 6) chlorodifluoromethane | 1.673 | 51 | 242203 | 100.99 | ug/L | # | 100 |
| 7) dichlorodifluoromethane | 1.657 | 85 | 364178 | 101.84 | ug/L | | 99 |
| 8) chloromethane | 1.818 | 50 | 244161 | 103.53 | ug/L | | 98 |
| 9) vinyl chloride | 1.901 | 62 | 289832 | 101.25 | ug/L | | 98 |
| 10) 1.3-butadiene | 1.930 | 54 | 262433 | 89.91 | ug/L | | 98 |
| 11) bromomethane | 2.139 | 96 | 115484 | 95.49 | ug/L | | 96 |
| 12) chloroethane | 2.225 | 64 | 163272 | 100.30 | ug/L | | 99 |
| 13) trichlorofluoromethane | 2.418 | 101 | 413329 | 101.21 | ug/L | | 98 |
| 14) ethyl ether | 2.607 | 74 | 150432 | 97.66 | ug/L | | 91 |
| 15) acrolein | 2.710 | 56 | 52392 | 101.81 | ug/L | | 91 |
| 16) freon 113 | 2.780 | 151 | 162624 | 97.61 | ug/L | | 99 |
| 17) 1,1-dichloroethene | 2.787 | 96 | 193228 | 95.13 | ug/L | | 96 |
| 18) acetone | 2.803 | 58 | 132443 | 375.15 | ug/L | | 90 |
| 19) acetonitrile | 2.992 | 40 | 216899 | 953.31 | ug/L | | 100 |
| 20) iodomethane | 2.906 | 142 | 206839 | 109.25 | ug/L | | 93 |
| 21) iso-butyl alcohol | 4.471 | 43 | 192769 | 938.39 | ug/L | | 92 |
| 22) carbon disulfide | 2.963 | 76 | 583545 | 97.96 | ug/L | | 100 |
| 23) methylene chloride | 3.120 | 84 | 224377 | 100.52 | ug/L | | 98 |
| 24) methyl acetate | 3.008 | 74 | 68927 | 98.04 | ug/L | | 95 |
| 25) methyl tert butyl ether | 3.287 | 73 | 730236 | 94.39 | ug/L | | 96 |
| 26) trans-1,2-dichloroethene | 3.307 | 96 | 205007 | 95.36 | ug/L | | 96 |
| 27) hexane | 3.483 | 57 | 300765 | 98.73 | ug/L | | 98 |
| 28) di-isopropyl ether | 3.595 | 45 | 585764 | 94.27 | ug/L | | 96 |
| 29) ethyl tert-butyl ether | 3.843 | 59 | 709098 | 96.37 | ug/L | | 97 |
| 30) 2-butanone | 3.964 | 72 | 210795 | 392.47 | ug/L | | 95 |
| 31) 1,1-dichloroethane | 3.602 | 63 | 368551 | 95.82 | ug/L | | 98 |
| 32) chloroprene | 3.653 | 53 | 299395 | 98.80 | ug/L | | 99 |
| 33) acrylonitrile | 3.268 | 53 | 127155 | 100.67 | ug/L | | 94 |
| 34) vinyl acetate | 3.576 | 86 | 68548 | 97.41 | ug/L | | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342976.D
Acq On : 15 Jun 2022 7:32 pm
Operator : BridgetK
Sample : ic10355-100
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 16 08:28:47 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) ethyl acetate | 3.974 | 45 | 50535 | 98.50 | ug/L | # | 67 |
| 36) 2,2-dichloropropane | 4.003 | 77 | 332007 | 93.54 | ug/L | | 99 |
| 37) cis-1,2-dichloroethene | 3.993 | 96 | 228818 | 95.83 | ug/L | | 96 |
| 38) propionitrile | 4.013 | 54 | 476799 | 939.42 | ug/L | | 97 |
| 39) methyl acrylate | 4.019 | 85 | 57649 | 94.55 | ug/L | | 98 |
| 40) bromochloromethane | 4.160 | 128 | 106160 | 97.46 | ug/L | | 96 |
| 41) tetrahydrofuran | 4.170 | 72 | 61547 | 99.18 | ug/L | | 92 |
| 42) chloroform | 4.215 | 83 | 395462 | 94.71 | ug/L | | 93 |
| 44) methacrylonitrile | 4.118 | 67 | 144668 | 99.02 | ug/L | | 95 |
| 45) 1,1,1-trichloroethane | 4.353 | 97 | 370465 | 98.77 | ug/L | | 99 |
| 46) cyclohexane | 4.414 | 84 | 328359 | 100.24 | ug/L | | 92 |
| 47) 1,1-dichloropropene | 4.462 | 75 | 284528 | 94.94 | ug/L | | 96 |
| 48) carbon tetrachloride | 4.465 | 117 | 289895 | 98.37 | ug/L | | 99 |
| 49) isopropyl acetate | 4.581 | 87 | 74584 | 100.43 | ug/L | | 98 |
| 50) tert amyl alcohol | 4.558 | 55 | 102341 | 488.70 | ug/L | | 99 |
| 53) tert-amyl methyl ether | 4.667 | 73 | 680808 | 96.07 | ug/L | | 99 |
| 54) 2,2,4-trimethylpentane | 4.670 | 57 | 539004 | 95.30 | ug/L | | 99 |
| 55) n-butyl alcohol | 4.946 | 56 | 705512 | 4599.46 | ug/L | | 99 |
| 56) benzene | 4.609 | 78 | 796385 | 96.64 | ug/L | | 98 |
| 57) heptane | 4.783 | 57 | 129998 | 101.14 | ug/L | | 92 |
| 58) 1,2-dichloroethane | 4.635 | 62 | 298800 | 93.12 | ug/L | | 100 |
| 59) trichloroethene | 5.078 | 95 | 235620 | 98.39 | ug/L | | 97 |
| 60) ethyl acrylate | 5.094 | 55 | 372092 | 94.17 | ug/L | | 98 |
| 61) 2-nitropropane | 5.630 | 41 | 104087 | 81.50 | ug/L | | 92 |
| 62) 2-chloroethyl vinyl ether | 5.659 | 63 | 681465 | 483.87 | ug/L | | 97 |
| 63) methyl methacrylate | 5.274 | 100 | 88207 | 94.95 | ug/L | | 95 |
| 64) 1,2-dichloropropane | 5.277 | 63 | 203891 | 97.34 | ug/L | | 100 |
| 65) methylcyclohexane | 5.267 | 83 | 375507 | 97.19 | ug/L | | 97 |
| 66) dibromomethane | 5.347 | 93 | 149342 | 99.74 | ug/L | | 98 |
| 67) bromodichloromethane | 5.466 | 83 | 337358 | 98.81 | ug/L | | 94 |
| 68) cis-1,3-dichloropropene | 5.806 | 75 | 399432 | 98.07 | ug/L | | 97 |
| 69) epichlorohydrin | 5.713 | 57 | 215179 | 501.85 | ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 5.903 | 58 | 516748 | 373.07 | ug/L | | 94 |
| 71) 3-methyl-1-butanol | 5.925 | 70 | 286823 | 1792.13 | ug/L | | 91 |
| 74) toluene | 6.086 | 92 | 547151 | 98.48 | ug/L | | 98 |
| 75) trans-1,3-dichloropropene | 6.256 | 75 | 384686 | 96.92 | ug/L | | 95 |
| 76) ethyl methacrylate | 6.275 | 69 | 365980 | 94.74 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 6.429 | 83 | 192490 | 97.34 | ug/L | | 96 |
| 78) 2-hexanone | 6.589 | 58 | 530794 | 365.04 | ug/L | | 96 |
| 79) tetrachloroethene | 6.522 | 166 | 221795 | 98.74 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 6.573 | 76 | 361898 | 95.44 | ug/L | | 98 |
| 81) butyl acetate | 6.673 | 56 | 194823 | 95.73 | ug/L | | 94 |
| 82) dibromochloromethane | 6.763 | 129 | 246706 | 98.85 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 6.878 | 107 | 249537 | 96.96 | ug/L | | 97 |
| 84) n-butyl ether | 7.343 | 57 | 817743 | 95.63 | ug/L | | 99 |
| 85) chlorobenzene | 7.305 | 112 | 595177 | 99.53 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 7.372 | 131 | 194452 | 95.61 | ug/L | | 97 |
| 87) ethylbenzene | 7.379 | 91 | 909100 | 93.49 | ug/L | | 98 |
| 88) m,p-xylene | 7.491 | 106 | 741758 | 191.47 | ug/L | | 94 |
| 89) o-xylene | 7.847 | 106 | 393079 | 96.41 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342976.D
Acq On : 15 Jun 2022 7:32 pm
Operator : BridgetK
Sample : ic10355-100
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 16 08:28:47 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

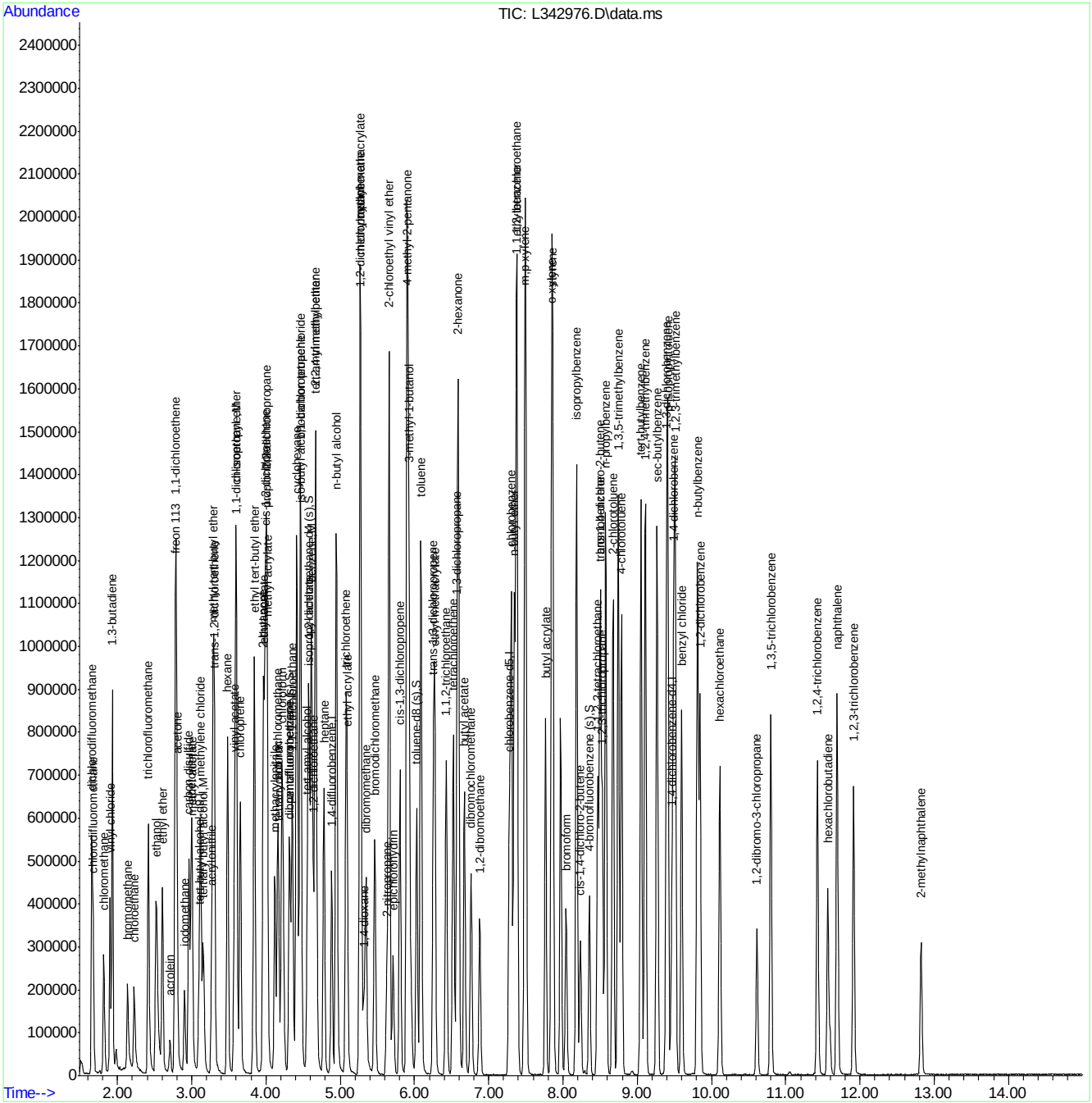
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 90) butyl acrylate | 7.767 | 55 | 488981 | 96.22 | ug/L | | 98 |
| 91) styrene | 7.863 | 104 | 620546 | 95.67 | ug/L | | 98 |
| 92) bromoform | 8.046 | 173 | 181496 | 98.59 | ug/L | | 98 |
| 93) isopropylbenzene | 8.184 | 105 | 975796 | 96.00 | ug/L | | 99 |
| 94) cis-1,4-dichloro-2-butene | 8.236 | 88 | 87729 | 112.17 | ug/L | | 88 |
| 97) bromobenzene | 8.499 | 156 | 224870 | 99.46 | ug/L | | 96 |
| 98) 1,1,2,2-tetrachloroethane | 8.470 | 83 | 346102 | 98.28 | ug/L | | 97 |
| 99) trans-1,4-dichloro-2-b... | 8.505 | 53 | 62013 | 111.30 | ug/L | | 87 |
| 100) 1,2,3-trichloropropane | 8.528 | 110 | 99496 | 94.91 | ug/L | | 100 |
| 101) n-propylbenzene | 8.576 | 91 | 1047914 | 96.73 | ug/L | | 96 |
| 102) 2-chlorotoluene | 8.675 | 126 | 215980 | 100.70 | ug/L | # | 86 |
| 103) 4-chlorotoluene | 8.791 | 126 | 213021 | 101.56 | ug/L | | 88 |
| 104) 1,3,5-trimethylbenzene | 8.746 | 105 | 756087 | 96.35 | ug/L | | 95 |
| 105) tert-butylbenzene | 9.051 | 119 | 663858 | 98.44 | ug/L | | 96 |
| 106) 1,2,4-trimethylbenzene | 9.108 | 105 | 774369 | 96.80 | ug/L | | 97 |
| 107) sec-butylbenzene | 9.269 | 105 | 937049 | 98.06 | ug/L | | 98 |
| 108) 1,3-dichlorobenzene | 9.397 | 146 | 405173 | 99.87 | ug/L | | 98 |
| 109) p-isopropyltoluene | 9.413 | 119 | 726021 | 96.26 | ug/L | | 98 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 385362 | 98.40 | ug/L | | 99 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 736622 | 96.23 | ug/L | | 98 |
| 112) 1,2-dichlorobenzene | 9.846 | 146 | 372599 | 98.35 | ug/L | | 97 |
| 113) n-butylbenzene | 9.811 | 92 | 401398 | 101.13 | ug/L | | 97 |
| 114) 1,2-dibromo-3-chloropr... | 10.610 | 157 | 98827 | 105.23 | ug/L | | 94 |
| 115) 1,3,5-trichlorobenzene | 10.799 | 180 | 272784 | 99.30 | ug/L | | 93 |
| 116) 1,2,4-trichlorobenzene | 11.428 | 180 | 234498 | 101.19 | ug/L | | 98 |
| 117) hexachlorobutadiene | 11.566 | 225 | 78448 | 91.50 | ug/L | | 87 |
| 118) naphthalene | 11.691 | 128 | 734252 | 100.43 | ug/L | | 98 |
| 119) 1,2,3-trichlorobenzene | 11.913 | 180 | 208707 | 104.31 | ug/L | | 94 |
| 120) hexachloroethane | 10.113 | 119 | 163995 | 104.54 | ug/L | | 100 |
| 121) benzyl chloride | 9.599 | 91 | 654250 | 96.55 | ug/L | | 98 |
| 122) 2-methylnaphthalene | 12.824 | 142 | 159652 | 56.72 | ug/L | | 94 |

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

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342976.D
Acq On : 15 Jun 2022 7:32 pm
Operator : BridgetK
Sample : ic10355-100
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 16 08:28:47 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342977.D
Acq On : 15 Jun 2022 7:56 pm
Operator : BridgetK
Sample : ic10355-200
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 16 15:16:06 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.108 | 65 | 217862 | 500.00 | ug/L | | 0.01 |
| 5) pentafluorobenzene | 4.311 | 168 | 219715 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.879 | 114 | 334098 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 316615 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 114201 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.321 | 113 | 97720 | 48.53 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.06% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.574 | 65 | 105632 | 44.32 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 88.64% | | | | |
| 73) toluene-d8 (s) | 6.028 | 98 | 410289 | 49.38 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.76% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 152680 | 51.81 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.62% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.322 | 88 | 272447 | 5219.34 | ug/L | | 95 |
| 3) ethanol | 2.530 | 45 | 845654 | 16817.90 | ug/L | | 96 |
| 4) tertiary butyl alcohol | 3.166 | 59 | 590093 | 970.81 | ug/L | | 95 |
| 6) chlorodifluoromethane | 1.674 | 51 | 426703 | 177.28 | ug/L | # | 100 |
| 7) dichlorodifluoromethane | 1.654 | 85 | 689201 | 192.05 | ug/L | | 97 |
| 8) chloromethane | 1.818 | 50 | 447308 | 189.00 | ug/L | | 96 |
| 9) vinyl chloride | 1.901 | 62 | 530435 | 184.64 | ug/L | | 97 |
| 10) 1.3-butadiene | 1.930 | 54 | 447255 | 152.68 | ug/L | | 98 |
| 12) chloroethane | 2.216 | 64 | 267488 | 163.73 | ug/L | | 98 |
| 13) trichlorofluoromethane | 2.408 | 101 | 751664 | 183.40 | ug/L | | 99 |
| 14) ethyl ether | 2.601 | 74 | 278095 | 179.90 | ug/L | | 87 |
| 15) acrolein | 2.707 | 56 | 105577 | 204.43 | ug/L | | 95 |
| 16) freon 113 | 2.771 | 151 | 296662 | 177.43 | ug/L | | 97 |
| 17) 1,1-dichloroethene | 2.781 | 96 | 352118 | 172.74 | ug/L | | 96 |
| 18) acetone | 2.800 | 58 | 249239 | 703.47 | ug/L | | 87 |
| 19) acetonitrile | 2.996 | 40 | 415396 | 1819.25 | ug/L | | 100 |
| 20) iodomethane | 2.899 | 142 | 365927 | 192.58 | ug/L | | 96 |
| 22) carbon disulfide | 2.957 | 76 | 1083905 | 181.30 | ug/L | | 98 |
| 23) methylene chloride | 3.118 | 84 | 413072 | 184.39 | ug/L | | 94 |
| 24) methyl acetate | 3.002 | 74 | 127925 | 181.31 | ug/L | | 98 |
| 25) methyl tert butyl ether | 3.284 | 73 | 1280045 | 164.87 | ug/L | | 97 |
| 26) trans-1,2-dichloroethene | 3.300 | 96 | 382422 | 177.26 | ug/L | | 97 |
| 27) hexane | 3.477 | 57 | 555444 | 181.69 | ug/L | | 99 |
| 28) di-isopropyl ether | 3.592 | 45 | 1026290 | 164.59 | ug/L | | 92 |
| 29) ethyl tert-butyl ether | 3.840 | 59 | 1275461 | 172.73 | ug/L | | 92 |
| 30) 2-butanone | 3.961 | 72 | 401968 | 745.74 | ug/L | # | 85 |
| 31) 1,1-dichloroethane | 3.599 | 63 | 655058 | 169.71 | ug/L | | 99 |
| 32) chloroprene | 3.650 | 53 | 543585 | 178.75 | ug/L | | 95 |
| 33) acrylonitrile | 3.265 | 53 | 249132 | 196.54 | ug/L | | 94 |
| 34) vinyl acetate | 3.570 | 86 | 124691 | 176.57 | ug/L | # | 82 |
| 35) ethyl acetate | 3.971 | 45 | 96148 | 186.74 | ug/L | # | 46 |
| 36) 2,2-dichloropropane | 3.997 | 77 | 580981 | 163.11 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342977.D
Acq On : 15 Jun 2022 7:56 pm
Operator : BridgetK
Sample : ic10355-200
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 16 15:16:06 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 37) cis-1,2-dichloroethene | 3.987 | 96 | 413498 | 172.55 | ug/L | | 98 |
| 38) propionitrile | 4.013 | 54 | 872418 | 1712.77 | ug/L | | 83 |
| 39) methyl acrylate | 4.016 | 85 | 110614 | 180.76 | ug/L | # | 91 |
| 40) bromochloromethane | 4.154 | 128 | 193365 | 176.89 | ug/L | | 95 |
| 41) tetrahydrofuran | 4.167 | 72 | 119900 | 192.53 | ug/L | | 97 |
| 42) chloroform | 4.209 | 83 | 721705 | 172.23 | ug/L | | 96 |
| 44) methacrylonitrile | 4.119 | 67 | 284474 | 194.02 | ug/L | | 93 |
| 45) 1,1,1-trichloroethane | 4.353 | 97 | 685023 | 181.99 | ug/L | | 98 |
| 46) cyclohexane | 4.408 | 84 | 618696 | 188.20 | ug/L | | 84 |
| 47) 1,1-dichloropropene | 4.456 | 75 | 532049 | 176.91 | ug/L | | 95 |
| 48) carbon tetrachloride | 4.465 | 117 | 529650 | 179.08 | ug/L | | 100 |
| 49) isopropyl acetate | 4.574 | 87 | 141770 | 190.22 | ug/L | | 96 |
| 53) tert-amyl methyl ether | 4.664 | 73 | 1213199 | 170.41 | ug/L | | 96 |
| 54) 2,2,4-trimethylpentane | 4.667 | 57 | 991638 | 174.52 | ug/L | | 98 |
| 55) n-butyl alcohol | 4.953 | 56 | 1312831 | 8519.34 | ug/L | | 99 |
| 56) benzene | 4.606 | 78 | 1422244 | 171.79 | ug/L | | 95 |
| 57) heptane | 4.777 | 57 | 247995 | 192.06 | ug/L | | 94 |
| 58) 1,2-dichloroethane | 4.629 | 62 | 540717 | 167.73 | ug/L | | 98 |
| 59) trichloroethene | 5.072 | 95 | 442530 | 183.94 | ug/L | | 98 |
| 60) ethyl acrylate | 5.094 | 55 | 680020 | 171.32 | ug/L | | 98 |
| 61) 2-nitropropane | 5.624 | 41 | 207959 | 162.09 | ug/L | | 97 |
| 62) 2-chloroethyl vinyl ether | 5.656 | 63 | 1251658 | 884.64 | ug/L | | 94 |
| 63) methyl methacrylate | 5.274 | 100 | 169905 | 182.06 | ug/L | # | 74 |
| 64) 1,2-dichloropropane | 5.274 | 63 | 373670 | 177.57 | ug/L | | 98 |
| 65) methylcyclohexane | 5.261 | 83 | 698271 | 179.90 | ug/L | | 97 |
| 66) dibromomethane | 5.345 | 93 | 275658 | 183.26 | ug/L | | 95 |
| 67) bromodichloromethane | 5.460 | 83 | 621825 | 181.29 | ug/L | | 97 |
| 68) cis-1,3-dichloropropene | 5.803 | 75 | 741907 | 181.31 | ug/L | | 97 |
| 69) epichlorohydrin | 5.714 | 57 | 414673 | 962.67 | ug/L | | 95 |
| 70) 4-methyl-2-pentanone | 5.900 | 58 | 936134 | 672.74 | ug/L | # | 81 |
| 71) 3-methyl-1-butanol | 5.929 | 70 | 542476 | 3373.90 | ug/L | | 98 |
| 74) toluene | 6.086 | 92 | 1011723 | 180.71 | ug/L | | 95 |
| 75) trans-1,3-dichloropropene | 6.256 | 75 | 714561 | 178.67 | ug/L | | 95 |
| 76) ethyl methacrylate | 6.275 | 69 | 665455 | 170.94 | ug/L | | 98 |
| 77) 1,1,2-trichloroethane | 6.426 | 83 | 360547 | 180.93 | ug/L | | 99 |
| 78) 2-hexanone | 6.590 | 58 | 940358 | 641.78 | ug/L | | 92 |
| 79) tetrachloroethene | 6.519 | 166 | 425716 | 188.08 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 6.570 | 76 | 661214 | 173.05 | ug/L | | 100 |
| 81) butyl acetate | 6.670 | 56 | 369348 | 180.10 | ug/L | | 97 |
| 82) dibromochloromethane | 6.760 | 129 | 459749 | 182.81 | ug/L | | 96 |
| 83) 1,2-dibromoethane | 6.875 | 107 | 472531 | 182.20 | ug/L | | 99 |
| 84) n-butyl ether | 7.344 | 57 | 1436555 | 166.72 | ug/L | | 95 |
| 85) chlorobenzene | 7.302 | 112 | 1090365 | 180.95 | ug/L | | 99 |
| 86) 1,1,1,2-tetrachloroethane | 7.373 | 131 | 351173 | 171.36 | ug/L | | 98 |
| 87) ethylbenzene | 7.376 | 91 | 1580938 | 161.34 | ug/L | | 94 |
| 88) m,p-xylene | 7.491 | 106 | 1333999 | 341.72 | ug/L | | 88 |
| 89) o-xylene | 7.847 | 106 | 723298 | 176.06 | ug/L | | 87 |
| 90) butyl acrylate | 7.764 | 55 | 878105 | 171.48 | ug/L | | 94 |
| 91) styrene | 7.864 | 104 | 1097016 | 167.84 | ug/L | | 99 |
| 92) bromoform | 8.043 | 173 | 342363 | 184.55 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342977.D
Acq On : 15 Jun 2022 7:56 pm
Operator : BridgetK
Sample : ic10355-200
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 16 15:16:06 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

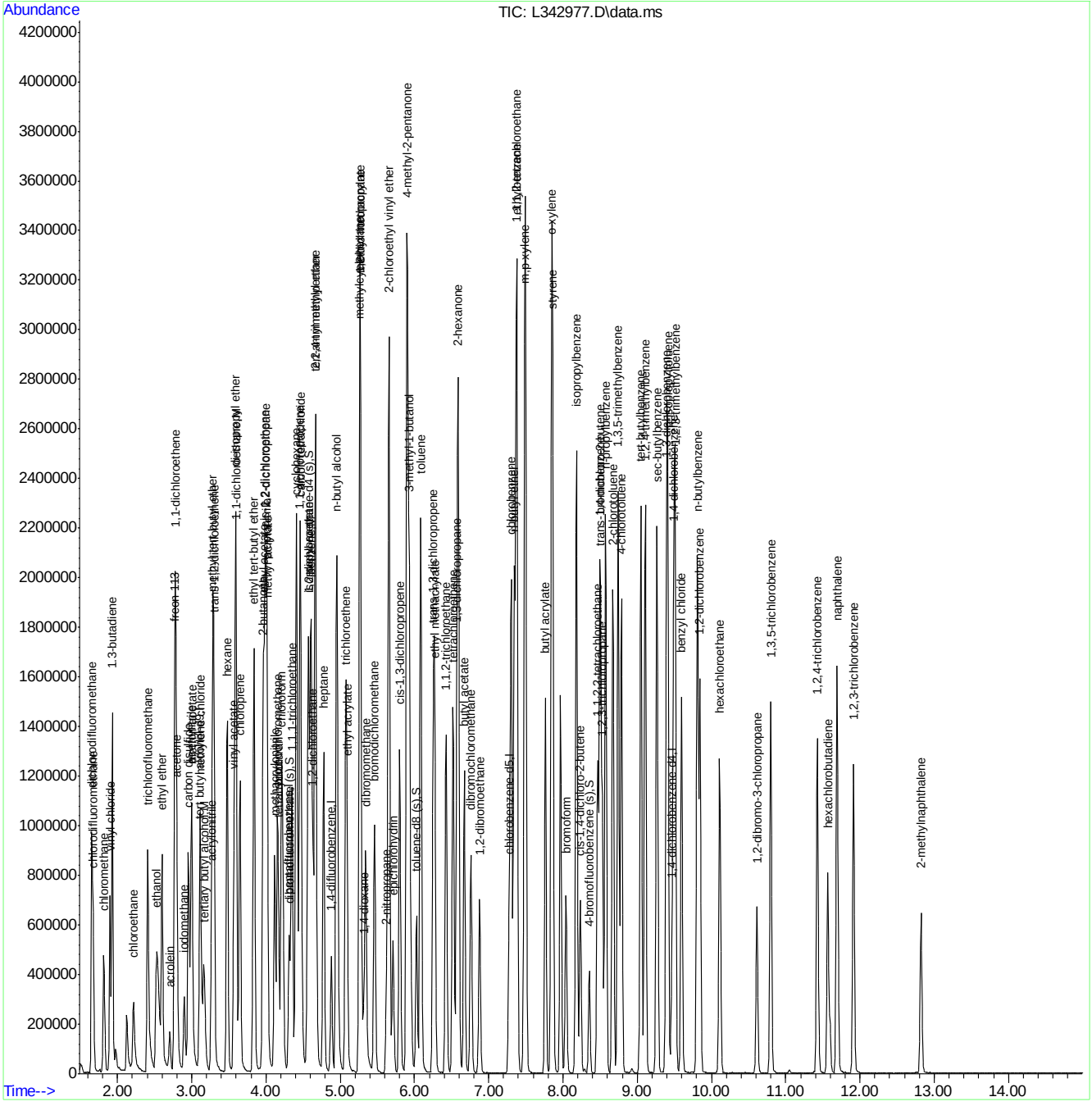
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 93) isopropylbenzene | 8.181 | 105 | 1705972 | 166.56 | ug/L | | 98 |
| 94) cis-1,4-dichloro-2-butene | 8.236 | 88 | 194710 | 247.05 | ug/L | | 89 |
| 97) bromobenzene | 8.499 | 156 | 406393 | 184.46 | ug/L | | 95 |
| 98) 1,1,2,2-tetrachloroethane | 8.467 | 83 | 631905 | 184.14 | ug/L | | 99 |
| 99) trans-1,4-dichloro-2-b... | 8.505 | 53 | 127822 | 235.42 | ug/L | # | 83 |
| 100) 1,2,3-trichloropropane | 8.528 | 110 | 185454 | 181.54 | ug/L | | 98 |
| 101) n-propylbenzene | 8.576 | 91 | 1800355 | 170.55 | ug/L | | 92 |
| 102) 2-chlorotoluene | 8.672 | 126 | 393998 | 188.51 | ug/L | # | 87 |
| 103) 4-chlorotoluene | 8.788 | 126 | 389143 | 190.39 | ug/L | # | 81 |
| 104) 1,3,5-trimethylbenzene | 8.743 | 105 | 1322434 | 172.93 | ug/L | | 93 |
| 105) tert-butylbenzene | 9.051 | 119 | 1174200 | 178.68 | ug/L | | 95 |
| 106) 1,2,4-trimethylbenzene | 9.109 | 105 | 1326584 | 170.18 | ug/L | | 94 |
| 107) sec-butylbenzene | 9.266 | 105 | 1617594 | 173.71 | ug/L | | 94 |
| 108) 1,3-dichlorobenzene | 9.394 | 146 | 729508 | 184.52 | ug/L | | 96 |
| 109) p-isopropyltoluene | 9.413 | 119 | 1238349 | 168.50 | ug/L | | 95 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 697766 | 182.83 | ug/L | | 97 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 1264624 | 169.53 | ug/L | | 93 |
| 112) 1,2-dichlorobenzene | 9.843 | 146 | 671020 | 181.75 | ug/L | | 98 |
| 113) n-butylbenzene | 9.811 | 92 | 713410 | 184.44 | ug/L | | 94 |
| 114) 1,2-dibromo-3-chloropr... | 10.614 | 157 | 199540 | 218.03 | ug/L | | 97 |
| 115) 1,3,5-trichlorobenzene | 10.800 | 180 | 497760 | 185.95 | ug/L | | 95 |
| 116) 1,2,4-trichlorobenzene | 11.425 | 180 | 442234 | 195.84 | ug/L | | 98 |
| 117) hexachlorobutadiene | 11.567 | 225 | 148468 | 177.71 | ug/L | | 83 |
| 118) naphthalene | 11.692 | 128 | 1372763 | 192.68 | ug/L | | 95 |
| 119) 1,2,3-trichlorobenzene | 11.913 | 180 | 394181 | 202.17 | ug/L | | 95 |
| 120) hexachloroethane | 10.110 | 119 | 297747 | 194.78 | ug/L | | 96 |
| 121) benzyl chloride | 9.596 | 91 | 1173936 | 177.78 | ug/L | | 97 |
| 122) 2-methylnaphthalene | 12.824 | 142 | 337429 | 123.03 | ug/L | | 95 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342977.D
Acq On : 15 Jun 2022 7:56 pm
Operator : BridgetK
Sample : ic10355-200
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 16 15:16:06 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342980.D
Acq On : 15 Jun 2022 9:06 pm
Operator : BridgetK
Sample : icv10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 17 18:02:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Jun 17 18:01:43 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.095 | 65 | 232014 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.314 | 168 | 218400 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.886 | 114 | 332458 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 310136 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 116267 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.327 | 113 | 99014 | 50.19 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.38% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.577 | 65 | 114947 | 47.37 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 94.74% | | | | |
| 73) toluene-d8 (s) | 6.031 | 98 | 403676 | 47.29 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.58% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 151835 | 50.13 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.26% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.319 | 88 | 75726 | 1251.73 | ug/L | | 91 |
| 3) ethanol | 2.517 | 45 | 300298 | 5184.79 | ug/L | | 100 |
| 4) tertiary butyl alcohol | 3.153 | 59 | 169230 | 237.98 | ug/L | | 98 |
| 7) dichlorodifluoromethane | 1.654 | 85 | 227546 | 63.82 | ug/L | | 99 |
| 8) chloromethane | 1.818 | 50 | 138069 | 57.93 | ug/L | | 99 |
| 9) vinyl chloride | 1.901 | 62 | 170762 | 58.09 | ug/L | | 98 |
| 10) 1,3-butadiene | 1.933 | 54 | 173644 | 60.09 | ug/L | | 99 |
| 11) bromomethane | 2.148 | 96 | 78757 | 64.34 | ug/L | | 95 |
| 12) chloroethane | 2.235 | 64 | 95932 | 55.80 | ug/L | | 99 |
| 13) trichlorofluoromethane | 2.421 | 101 | 233259 | 56.74 | ug/L | | 99 |
| 14) ethyl ether | 2.607 | 74 | 77147 | 53.71 | ug/L | | 98 |
| 15) acrolein | 2.713 | 56 | 19522 | 37.43 | ug/L | | 90 |
| 16) freon 113 | 2.784 | 151 | 86784 | 53.62 | ug/L | | 98 |
| 17) 1,1-dichloroethene | 2.790 | 96 | 104519 | 51.84 | ug/L | | 99 |
| 18) acetone | 2.800 | 58 | 67510 | 190.59 | ug/L | | 97 |
| 20) iodomethane | 2.906 | 142 | 83750 | 45.52 | ug/L | | 94 |
| 21) iso-butyl alcohol | 4.465 | 43 | 103818 | 449.71 | ug/L | | 98 |
| 22) carbon disulfide | 2.963 | 76 | 321109 | 51.76 | ug/L | | 99 |
| 23) methylene chloride | 3.121 | 84 | 114453 | 48.76 | ug/L | | 97 |
| 24) methyl acetate | 3.005 | 74 | 35891 | 50.49 | ug/L | | 93 |
| 25) methyl tert butyl ether | 3.288 | 73 | 396518 | 51.95 | ug/L | | 98 |
| 26) trans-1,2-dichloroethene | 3.307 | 96 | 112718 | 51.67 | ug/L | | 95 |
| 27) hexane | 3.486 | 57 | 167686 | 54.66 | ug/L | | 98 |
| 28) di-isopropyl ether | 3.596 | 45 | 310477 | 50.12 | ug/L | | 96 |
| 29) ethyl tert-butyl ether | 3.843 | 59 | 355794 | 49.02 | ug/L | | 98 |
| 30) 2-butanone | 3.961 | 72 | 115015 | 211.38 | ug/L | # | 86 |
| 31) 1,1-dichloroethane | 3.605 | 63 | 195846 | 51.13 | ug/L | | 95 |
| 32) chloroprene | 3.657 | 53 | 166962 | 53.59 | ug/L | | 99 |
| 34) vinyl acetate | 3.576 | 86 | 32197 | 48.73 | ug/L | | 97 |
| 35) ethyl acetate | 3.974 | 45 | 26336 | 47.67 | ug/L | # | 58 |
| 36) 2,2-dichloropropane | 4.003 | 77 | 182558 | 49.00 | ug/L | | 99 |
| 37) cis-1,2-dichloroethene | 3.993 | 96 | 122984 | 49.84 | ug/L | | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342980.D
Acq On : 15 Jun 2022 9:06 pm
Operator : BridgetK
Sample : icv10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 17 18:02:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Jun 17 18:01:43 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 38) propionitrile | 4.013 | 54 | 247490 | 475.92 | ug/L | | 97 |
| 39) methyl acrylate | 4.016 | 85 | 30117 | 46.98 | ug/L | # | 77 |
| 40) bromochloromethane | 4.160 | 128 | 56204 | 52.28 | ug/L | | 91 |
| 41) tetrahydrofuran | 4.167 | 72 | 31482 | 51.78 | ug/L | | 95 |
| 42) chloroform | 4.212 | 83 | 213985 | 48.78 | ug/L | | 97 |
| 44) methacrylonitrile | 4.119 | 67 | 75823 | 49.70 | ug/L | | 93 |
| 45) 1,1,1-trichloroethane | 4.353 | 97 | 193673 | 51.51 | ug/L | | 96 |
| 46) cyclohexane | 4.414 | 84 | 183102 | 52.91 | ug/L | | 94 |
| 47) 1,1-dichloropropene | 4.462 | 75 | 157773 | 52.53 | ug/L | | 97 |
| 48) carbon tetrachloride | 4.465 | 117 | 157187 | 50.44 | ug/L | | 100 |
| 49) isopropyl acetate | 4.581 | 87 | 39509 | 50.67 | ug/L | | 100 |
| 50) tert amyl alcohol | 4.558 | 55 | 54327 | 219.91 | ug/L | | 92 |
| 53) tert-amyl methyl ether | 4.667 | 73 | 344226 | 46.50 | ug/L | | 99 |
| 54) 2,2,4-trimethylpentane | 4.671 | 57 | 287414 | 48.85 | ug/L | | 98 |
| 55) n-butyl alcohol | 4.943 | 56 | 381773 | 2316.24 | ug/L | | 99 |
| 56) benzene | 4.610 | 78 | 438563 | 50.67 | ug/L | | 99 |
| 57) heptane | 4.783 | 57 | 69989 | 51.57 | ug/L | | 91 |
| 58) 1,2-dichloroethane | 4.635 | 62 | 159607 | 48.86 | ug/L | | 98 |
| 59) trichloroethene | 5.078 | 95 | 123912 | 50.62 | ug/L | | 98 |
| 60) ethyl acrylate | 5.094 | 55 | 190753 | 47.02 | ug/L | | 98 |
| 61) 2-nitropropane | 5.627 | 41 | 57386 | 48.34 | ug/L | | 98 |
| 62) 2-chloroethyl vinyl ether | 5.659 | 63 | 392152 | 276.73 | ug/L | | 98 |
| 63) methyl methacrylate | 5.277 | 100 | 45315 | 47.95 | ug/L | | 93 |
| 64) 1,2-dichloropropane | 5.277 | 63 | 102627 | 48.06 | ug/L | | 99 |
| 65) methylcyclohexane | 5.267 | 83 | 197430 | 51.21 | ug/L | | 98 |
| 66) dibromomethane | 5.348 | 93 | 76466 | 48.58 | ug/L | | 99 |
| 67) bromodichloromethane | 5.466 | 83 | 175939 | 49.05 | ug/L | | 96 |
| 68) cis-1,3-dichloropropene | 5.803 | 75 | 202450 | 50.32 | ug/L | | 98 |
| 69) epichlorohydrin | 5.713 | 57 | 109384 | 235.88 | ug/L | | 96 |
| 70) 4-methyl-2-pentanone | 5.900 | 58 | 278751 | 187.74 | ug/L | | 100 |
| 71) 3-methyl-1-butanol | 5.922 | 70 | 163600 | 900.07 | ug/L | | 94 |
| 74) toluene | 6.089 | 92 | 284201 | 48.80 | ug/L | | 96 |
| 75) trans-1,3-dichloropropene | 6.259 | 75 | 197008 | 48.87 | ug/L | | 96 |
| 76) ethyl methacrylate | 6.275 | 69 | 193653 | 47.72 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 6.429 | 83 | 99405 | 49.00 | ug/L | | 97 |
| 78) 2-hexanone | 6.589 | 58 | 284176 | 176.13 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 6.570 | 76 | 193265 | 49.01 | ug/L | | 97 |
| 81) butyl acetate | 6.670 | 56 | 104573 | 49.69 | ug/L | | 91 |
| 82) dibromochloromethane | 6.763 | 129 | 128344 | 47.33 | ug/L | | 97 |
| 83) 1,2-dibromoethane | 6.878 | 107 | 130545 | 48.04 | ug/L | | 99 |
| 84) n-butyl ether | 7.347 | 57 | 425534 | 48.94 | ug/L | | 99 |
| 85) chlorobenzene | 7.305 | 112 | 307670 | 51.70 | ug/L | | 100 |
| 86) 1,1,1,2-tetrachloroethane | 7.376 | 131 | 104743 | 48.61 | ug/L | | 96 |
| 87) ethylbenzene | 7.379 | 91 | 511359 | 50.01 | ug/L | | 100 |
| 88) m,p-xylene | 7.491 | 106 | 402745 | 98.27 | ug/L | | 97 |
| 89) o-xylene | 7.847 | 106 | 206817 | 50.45 | ug/L | | 97 |
| 90) butyl acrylate | 7.764 | 55 | 258041 | 49.17 | ug/L | | 99 |
| 91) styrene | 7.863 | 104 | 335580 | 50.48 | ug/L | | 96 |
| 92) bromoform | 8.043 | 173 | 94649 | 49.60 | ug/L | | 97 |
| 93) isopropylbenzene | 8.181 | 105 | 535338 | 52.02 | ug/L | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342980.D
Acq On : 15 Jun 2022 9:06 pm
Operator : BridgetK
Sample : icv10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 17 18:02:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Jun 17 18:01:43 2022
Response via : Initial Calibration

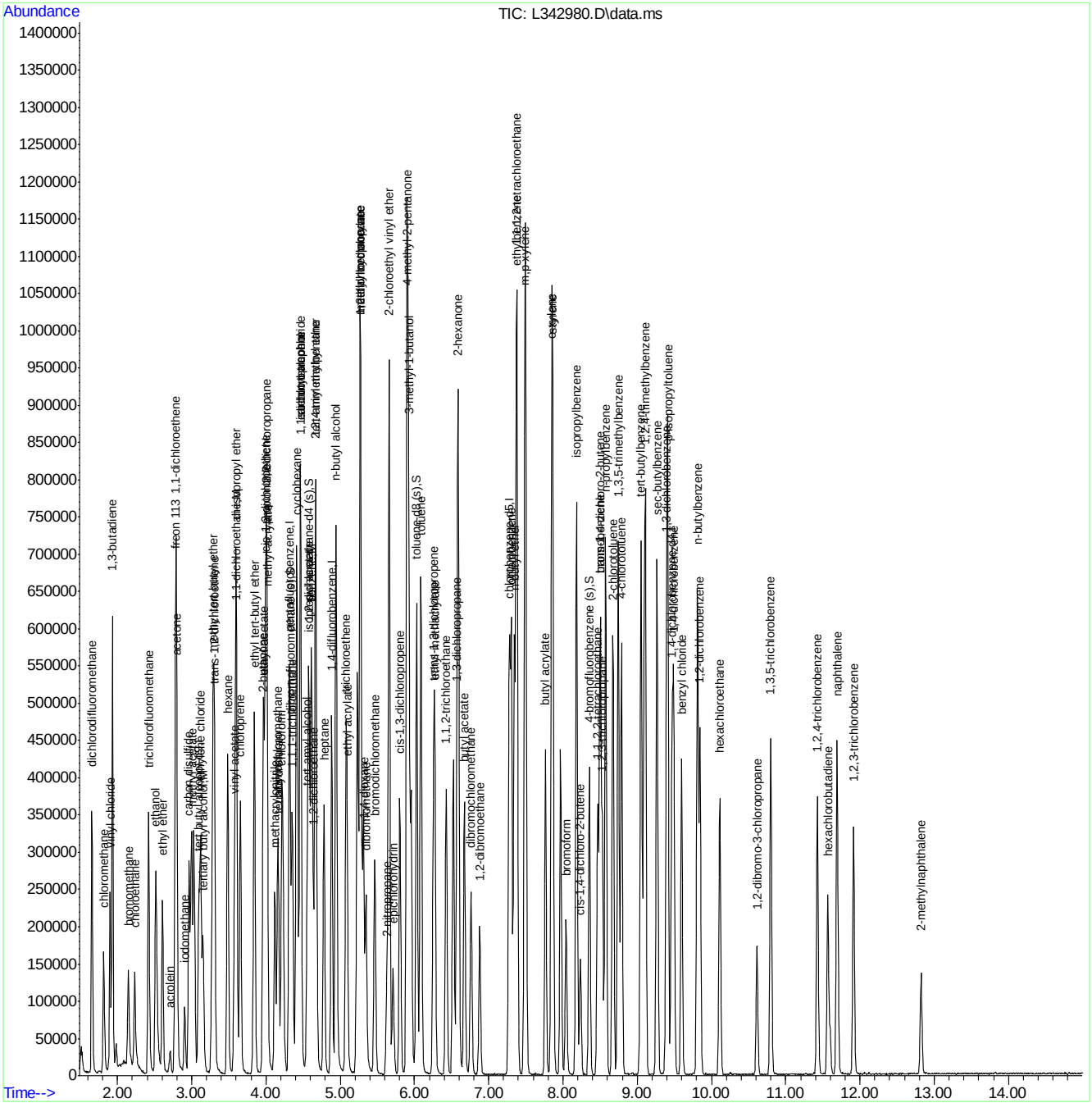
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 94) cis-1,4-dichloro-2-butene | 8.236 | 88 | 43682 | 57.08 | ug/L | | 92 |
| 97) bromobenzene | 8.502 | 156 | 118135 | 50.07 | ug/L | | 98 |
| 98) 1,1,2,2-tetrachloroethane | 8.467 | 83 | 181406 | 46.62 | ug/L | | 99 |
| 99) trans-1,4-dichloro-2-b... | 8.502 | 53 | 33056 | 59.77 | ug/L | # | 76 |
| 100) 1,2,3-trichloropropane | 8.531 | 110 | 53955 | 48.14 | ug/L | | 93 |
| 101) n-propylbenzene | 8.576 | 91 | 579118 | 52.00 | ug/L | | 99 |
| 102) 2-chlorotoluene | 8.675 | 126 | 113693 | 51.88 | ug/L | | 94 |
| 103) 4-chlorotoluene | 8.788 | 126 | 111764 | 50.87 | ug/L | | 94 |
| 104) 1,3,5-trimethylbenzene | 8.746 | 105 | 411358 | 51.52 | ug/L | | 98 |
| 105) tert-butylbenzene | 9.051 | 119 | 371090 | 55.45 | ug/L | | 97 |
| 106) 1,2,4-trimethylbenzene | 9.108 | 105 | 398351 | 48.74 | ug/L | | 98 |
| 107) sec-butylbenzene | 9.266 | 105 | 505018 | 52.79 | ug/L | | 99 |
| 108) 1,3-dichlorobenzene | 9.394 | 146 | 207375 | 52.04 | ug/L | | 100 |
| 109) p-isopropyltoluene | 9.413 | 119 | 394615 | 52.31 | ug/L | | 98 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 199256 | 51.00 | ug/L | | 96 |
| 112) 1,2-dichlorobenzene | 9.843 | 146 | 193057 | 49.24 | ug/L | | 98 |
| 113) n-butylbenzene | 9.811 | 92 | 210268 | 55.69 | ug/L | | 98 |
| 114) 1,2-dibromo-3-chloropr... | 10.617 | 157 | 49285 | 53.60 | ug/L | | 95 |
| 115) 1,3,5-trichlorobenzene | 10.796 | 180 | 142739 | 56.43 | ug/L | | 99 |
| 116) 1,2,4-trichlorobenzene | 11.429 | 180 | 117263 | 57.25 | ug/L | | 96 |
| 117) hexachlorobutadiene | 11.570 | 225 | 44801 | 54.62 | ug/L | | 92 |
| 118) naphthalene | 11.692 | 128 | 368327 | 53.25 | ug/L | | 97 |
| 119) 1,2,3-trichlorobenzene | 11.913 | 180 | 103114 | 55.60 | ug/L | | 99 |
| 120) hexachloroethane | 10.113 | 119 | 82948 | 53.03 | ug/L | | 96 |
| 121) benzyl chloride | 9.599 | 91 | 325673 | 48.23 | ug/L | | 97 |
| 122) 2-methylnaphthalene | 12.821 | 142 | 69405 | 28.02 | ug/L | | 91 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342980.D
Acq On : 15 Jun 2022 9:06 pm
Operator : BridgetK
Sample : icv10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 17 18:02:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Jun 17 18:01:43 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342981.D
Acq On : 15 Jun 2022 9:29 pm
Operator : BridgetK
Sample : icv10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 17 18:02:44 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Jun 17 18:01:43 2022
Response via : Initial Calibration

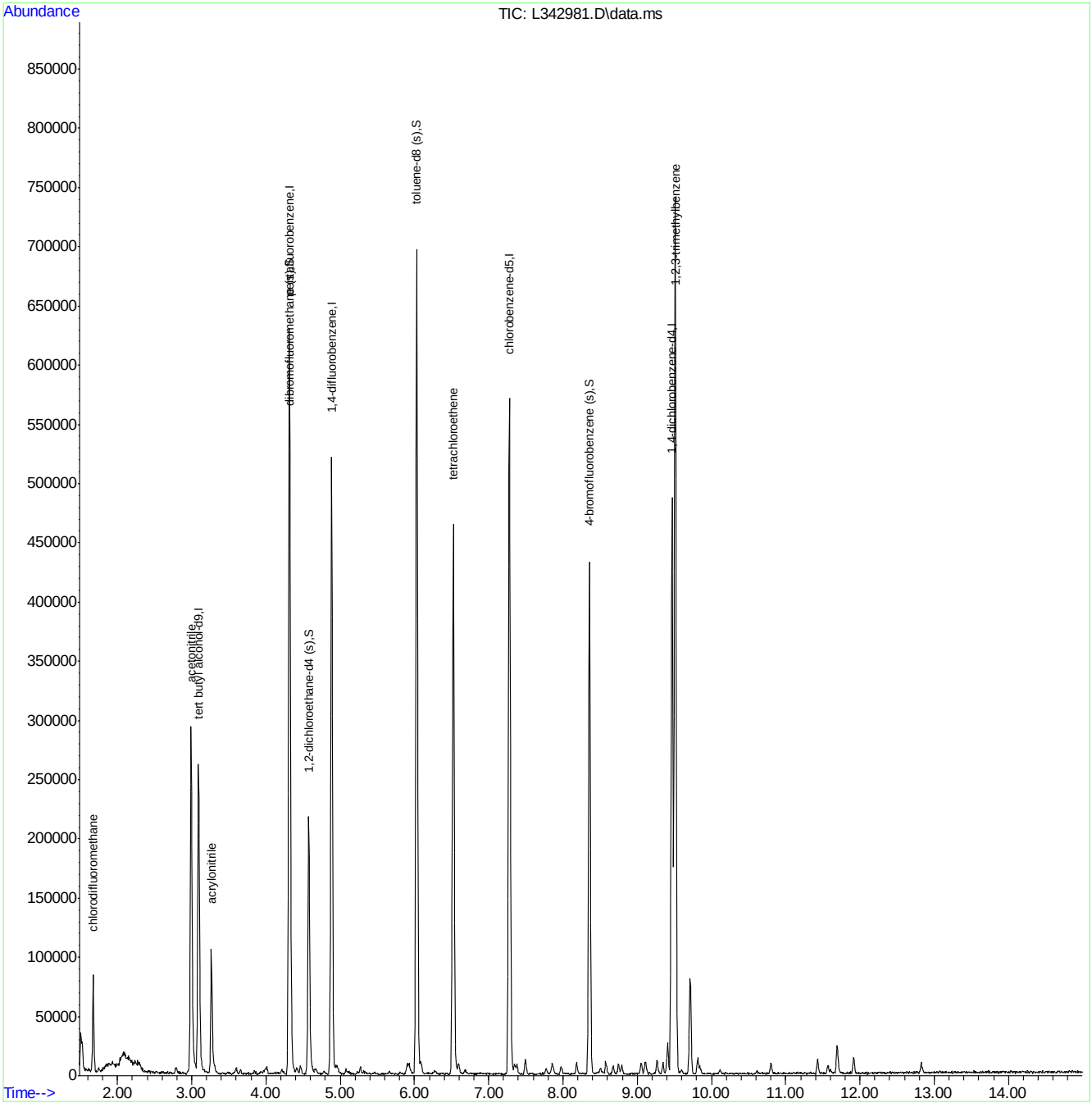
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.092 | 65 | 262183 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.314 | 168 | 250367 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.882 | 114 | 366353 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.279 | 117 | 315664 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 124313 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.324 | 113 | 112305 | 49.66 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.32% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.577 | 65 | 140164 | 52.42 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 104.84% | | | |
| 73) toluene-d8 (s) | 6.031 | 98 | 460692 | 53.02 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.04% | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 163818 | 50.59 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.18% | | | |
| Target Compounds | | | | | | Qvalue |
| 6) chlorodifluoromethane | 1.673 | 51 | 64184 | 22.92 | ug/L # | 100 |
| 19) acetonitrile | 2.992 | 40 | 140050 | 532.32 | ug/L | 99 |
| 33) acrylonitrile | 3.265 | 53 | 66083 | 45.76 | ug/L | 97 |
| 79) tetrachloroethene | 6.525 | 166 | 126642 | 53.33 | ug/L | 97 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 453175 | 54.65 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342981.D
Acq On : 15 Jun 2022 9:29 pm
Operator : BridgetK
Sample : icv10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 17 18:02:44 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Jun 17 18:01:43 2022
Response via : Initial Calibration




ML10355.M Tue Jun 21 15:33:01 2022 1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342985.D
Acq On : 16 Jun 2022 10:06 am
Operator : BridgetK
Sample : icv10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 17 18:03:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Jun 17 18:01:43 2022
Response via : Initial Calibration

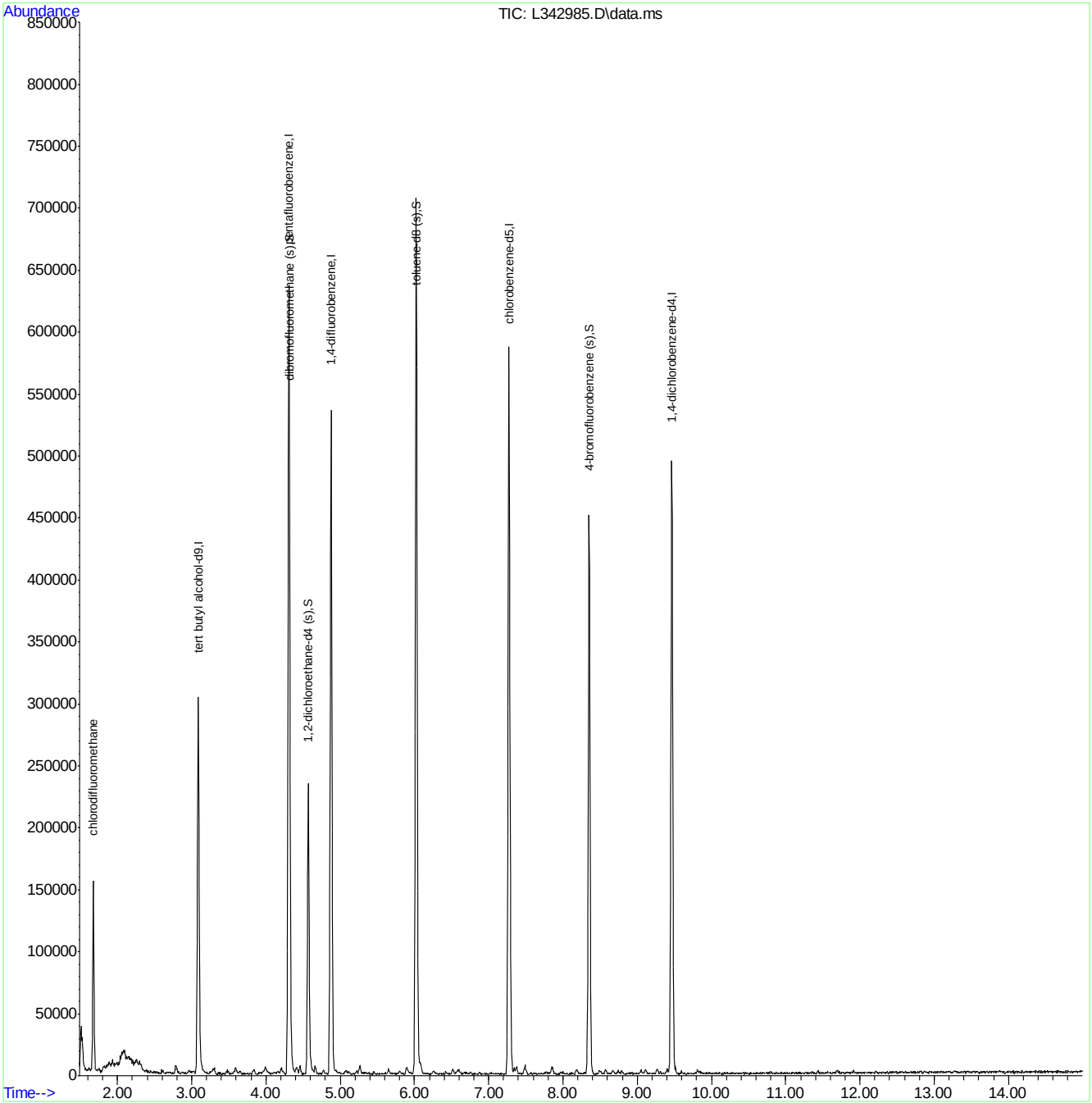
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.088 | 65 | 298843 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.308 | 168 | 253371 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.876 | 114 | 366335 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 322435 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 126497 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.317 | 113 | 115379 | 50.42 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.84% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.571 | 65 | 144698 | 54.12 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 108.24% | | | |
| 73) toluene-d8 (s) | 6.025 | 98 | 466572 | 52.57 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 105.14% | | | |
| 96) 4-bromofluorobenzene (s) | 8.351 | 95 | 164461 | 49.91 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.82% | | | |
| Target Compounds | | | | | | Qvalue |
| 6) chlorodifluoromethane | 1.673 | 51 | 122930 | 43.39 | ug/L | # 97 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342985.D
Acq On : 16 Jun 2022 10:06 am
Operator : BridgetK
Sample : icv10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 17 18:03:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Jun 17 18:01:43 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347768.d
Acq On : 3 Oct 2022 11:43 am
Operator : nicoleh
Sample : cc10355-20 Inst : GCMSL
Misc : MS62644,VL10517,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 03 22:47:08 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.089 | 65 | 163251 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.311 | 168 | 227666 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.879 | 114 | 341884 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 318661 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.471 | 152 | 123457 | 50.00 | ug/L | 0.00 |
| 123) pentafluorobenzene(a) | 4.311 | 168 | 226738 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.471 | 152 | 123440 | 50.00 | ug/L | 0.01 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.321 | 113 | 99542 | 48.41 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.82% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.571 | 65 | 115385 | 46.24 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 92.48% | | | |
| 73) toluene-d8 (s) | 6.025 | 98 | 397250 | 45.29 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 90.58% | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 151635 | 47.15 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.30% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.312 | 88 | 5182 | 121.74 | ug/L | 85 |
| 3) ethanol | 2.511 | 45 | 29230 | 717.24 | ug/L | 91 |
| 4) tertiary butyl alcohol | 3.143 | 59 | 47548 | 95.03 | ug/L | 89 |
| 6) chlorodifluoromethane | 1.677 | 51 | 25637 | 10.07 | ug/L # | 99 |
| 7) dichlorodifluoromethane | 1.661 | 85 | 71632 | 19.27 | ug/L | 96 |
| 8) chloromethane | 1.818 | 50 | 47509 | 19.12 | ug/L | 91 |
| 9) vinyl chloride | 1.901 | 62 | 57462 | 18.75 | ug/L | 97 |
| 10) 1,3-butadiene | 1.930 | 54 | 30296 | 10.06 | ug/L | 94 |
| 11) bromomethane | 2.158 | 96 | 19363 | 15.18 | ug/L | 99 |
| 12) chloroethane | 2.235 | 64 | 30839 | 17.21 | ug/L | 95 |
| 13) trichlorofluoromethane | 2.421 | 101 | 86078 | 20.09 | ug/L | 94 |
| 14) ethyl ether | 2.604 | 74 | 29840 | 19.93 | ug/L | 95 |
| 15) acrolein | 2.707 | 56 | 14875 | 27.36 | ug/L | 96 |
| 16) freon 113 | 2.777 | 151 | 35896 | 21.28 | ug/L | 91 |
| 17) 1,1-dichloroethene | 2.787 | 96 | 39726 | 18.90 | ug/L | 98 |
| 18) acetone | 2.793 | 58 | 32026 | 86.73 | ug/L # | 65 |
| 19) acetonitrile | 2.989 | 40 | 33226 | 138.88 | ug/L | 98 |
| 20) iodomethane | 2.906 | 142 | 16354 | 9.80 | ug/L | 90 |
| 21) iso-butyl alcohol | 4.459 | 43 | 28633 | 118.98 | ug/L | 93 |
| 22) carbon disulfide | 2.963 | 76 | 103000 | 15.93 | ug/L | 92 |
| 23) methylene chloride | 3.117 | 84 | 51490 | 21.04 | ug/L | 100 |
| 24) methyl acetate | 3.002 | 74 | 13040 | 17.60 | ug/L # | 71 |
| 25) methyl tert butyl ether | 3.284 | 73 | 155636 | 19.56 | ug/L | 90 |
| 26) trans-1,2-dichloroethene | 3.300 | 96 | 47772 | 21.01 | ug/L | 91 |
| 27) hexane | 3.477 | 57 | 67350 | 21.06 | ug/L | 95 |
| 28) di-isopropyl ether | 3.592 | 45 | 152592 | 23.63 | ug/L | 87 |
| 29) ethyl tert-butyl ether | 3.836 | 59 | 166801 | 22.04 | ug/L | 95 |
| 30) 2-butanone | 3.955 | 72 | 44361 | 78.21 | ug/L | 92 |
| 31) 1,1-dichloroethane | 3.599 | 63 | 88842 | 22.25 | ug/L | 93 |
| 32) chloroprene | 3.650 | 53 | 71886 | 22.13 | ug/L | 94 |
| 33) acrylonitrile | 3.265 | 53 | 28931 | 22.03 | ug/L | 93 |
| 34) vinyl acetate | 3.570 | 86 | 14137 | 20.52 | ug/L | 94 |
| 35) ethyl acetate | 3.965 | 45 | 11850 | 20.57 | ug/L | 89 |
| 36) 2,2-dichloropropane | 3.997 | 77 | 76052 | 19.58 | ug/L | 97 |
| 37) cis-1,2-dichloroethene | 3.987 | 96 | 54404 | 21.15 | ug/L | 98 |
| 38) propionitrile | 4.003 | 54 | 104434 | 192.65 | ug/L | 94 |
| 39) methyl acrylate | 4.010 | 85 | 12147 | 18.18 | ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347768.d
Acq On : 3 Oct 2022 11:43 am
Operator : nicoleh
Sample : cc10355-20 Inst : GCMSL
Misc : MS62644,VL10517,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 03 22:47:08 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 40) bromochloromethane | 4.157 | 128 | 23322 | 20.81 | ug/L | | 94 |
| 41) tetrahydrofuran | 4.164 | 72 | 11438 | 18.05 | ug/L | # | 83 |
| 42) chloroform | 4.208 | 83 | 92690 | 20.27 | ug/L | | 97 |
| 44) methacrylonitrile | 4.112 | 67 | 33188 | 20.87 | ug/L | | 99 |
| 45) 1,1,1-trichloroethane | 4.350 | 97 | 77232 | 19.71 | ug/L | | 93 |
| 46) cyclohexane | 4.411 | 84 | 70264 | 19.48 | ug/L | | 96 |
| 47) 1,1-dichloropropene | 4.456 | 75 | 65282 | 20.85 | ug/L | | 95 |
| 48) carbon tetrachloride | 4.465 | 117 | 63862 | 19.66 | ug/L | | 96 |
| 49) isopropyl acetate | 4.574 | 87 | 16268 | 20.01 | ug/L | # | 74 |
| 50) tert amyl alcohol | 4.552 | 55 | 17779 | 69.04 | ug/L | | 95 |
| 53) tert-amyl methyl ether | 4.664 | 73 | 153507 | 20.16 | ug/L | | 98 |
| 54) 2,2,4-trimethylpentane | 4.667 | 57 | 134685 | 22.26 | ug/L | | 96 |
| 55) n-butyl alcohol | 4.937 | 56 | 74962 | 442.26 | ug/L | | 91 |
| 56) benzene | 4.606 | 78 | 187973 | 21.12 | ug/L | | 97 |
| 57) heptane | 4.776 | 57 | 26585 | 19.05 | ug/L | # | 85 |
| 58) 1,2-dichloroethane | 4.629 | 62 | 67103 | 19.98 | ug/L | | 98 |
| 59) trichloroethene | 5.075 | 95 | 53754 | 21.35 | ug/L | | 99 |
| 60) ethyl acrylate | 5.091 | 55 | 93085 | 22.31 | ug/L | | 95 |
| 61) 2-nitropropane | 5.624 | 41 | 22944 | 18.79 | ug/L | | 88 |
| 62) 2-chloroethyl vinyl ether | 5.652 | 63 | 182663 | 125.35 | ug/L | | 98 |
| 63) methyl methacrylate | 5.271 | 100 | 20427 | 21.02 | ug/L | | 99 |
| 64) 1,2-dichloropropane | 5.274 | 63 | 51533 | 23.47 | ug/L | | 81 |
| 65) methylcyclohexane | 5.264 | 83 | 82721 | 20.87 | ug/L | | 90 |
| 66) dibromomethane | 5.344 | 93 | 32461 | 20.05 | ug/L | | 95 |
| 67) bromodichloromethane | 5.460 | 83 | 71236 | 19.31 | ug/L | | 96 |
| 68) cis-1,3-dichloropropene | 5.800 | 75 | 84740 | 20.48 | ug/L | | 98 |
| 69) epichlorohydrin | 5.710 | 57 | 40659 | 85.26 | ug/L | | 86 |
| 70) 4-methyl-2-pentanone | 5.896 | 58 | 131061 | 85.84 | ug/L | | 95 |
| 71) 3-methyl-1-butanol | 5.912 | 70 | 38306 | 204.94 | ug/L | | 92 |
| 74) toluene | 6.086 | 92 | 126511 | 21.14 | ug/L | | 95 |
| 75) trans-1,3-dichloropropene | 6.256 | 75 | 78566 | 18.97 | ug/L | | 91 |
| 76) ethyl methacrylate | 6.275 | 69 | 82635 | 19.82 | ug/L | | 95 |
| 77) 1,1,2-trichloroethane | 6.426 | 83 | 43428 | 20.83 | ug/L | | 93 |
| 78) 2-hexanone | 6.589 | 58 | 129975 | 78.40 | ug/L | | 96 |
| 79) tetrachloroethene | 6.519 | 166 | 48544 | 20.25 | ug/L | | 94 |
| 80) 1,3-dichloropropane | 6.570 | 76 | 84648 | 20.89 | ug/L | | 94 |
| 81) butyl acetate | 6.670 | 56 | 48439 | 22.40 | ug/L | | 97 |
| 82) dibromochloromethane | 6.760 | 129 | 53290 | 19.12 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 6.878 | 107 | 52115 | 18.66 | ug/L | | 92 |
| 84) n-butyl ether | 7.347 | 57 | 199839 | 22.37 | ug/L | | 95 |
| 85) chlorobenzene | 7.302 | 112 | 125128 | 20.46 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 7.372 | 131 | 43509 | 19.65 | ug/L | | 93 |
| 87) ethylbenzene | 7.376 | 91 | 224316 | 21.35 | ug/L | | 93 |
| 88) m,p-xylene | 7.488 | 106 | 166484 | 39.53 | ug/L | | 95 |
| 89) o-xylene | 7.847 | 106 | 85303 | 20.25 | ug/L | | 96 |
| 90) butyl acrylate | 7.764 | 55 | 115213 | 21.37 | ug/L | | 96 |
| 91) styrene | 7.863 | 104 | 137627 | 20.15 | ug/L | | 99 |
| 92) bromoform | 8.046 | 173 | 35420 | 18.07 | ug/L | | 95 |
| 93) isopropylbenzene | 8.184 | 105 | 212475 | 20.09 | ug/L | | 95 |
| 94) cis-1,4-dichloro-2-butene | 8.236 | 88 | 18356 | 23.35 | ug/L | | 92 |
| 97) bromobenzene | 8.502 | 156 | 50249 | 20.06 | ug/L | | 98 |
| 98) 1,1,2,2-tetrachloroethane | 8.470 | 83 | 74791 | 18.10 | ug/L | | 95 |
| 99) trans-1,4-dichloro-2-b... | 8.505 | 53 | 14688 | 25.01 | ug/L | # | 79 |
| 100) 1,2,3-trichloropropane | 8.528 | 110 | 21951 | 18.44 | ug/L | | 95 |
| 101) n-propylbenzene | 8.576 | 91 | 238588 | 20.18 | ug/L | | 95 |
| 102) 2-chlorotoluene | 8.678 | 126 | 47260 | 20.31 | ug/L | # | 83 |
| 103) 4-chlorotoluene | 8.788 | 126 | 47475 | 20.35 | ug/L | # | 86 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347768.d
Acq On : 3 Oct 2022 11:43 am
Operator : nicoleh
Sample : cc10355-20 Inst : GCMSL
Misc : MS62644,VL10517,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 03 22:47:08 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

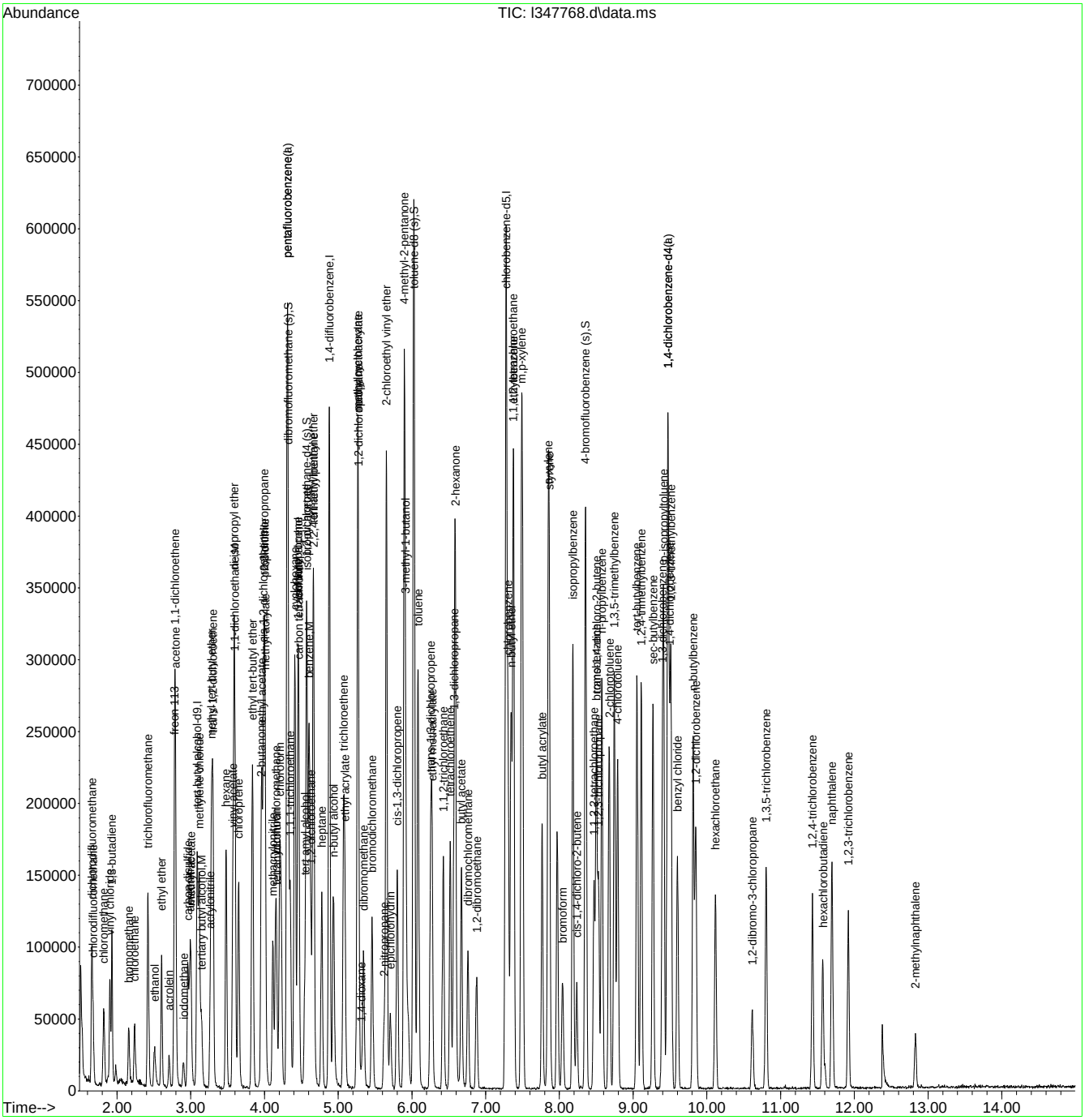
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) 1,3,5-trimethylbenzene | 8.746 | 105 | 162104 | 19.12 | ug/L | 98 |
| 105) tert-butylbenzene | 9.051 | 119 | 143144 | 20.14 | ug/L | 99 |
| 106) 1,2,4-trimethylbenzene | 9.112 | 105 | 164522 | 18.96 | ug/L | 97 |
| 107) sec-butylbenzene | 9.272 | 105 | 199017 | 19.59 | ug/L | 97 |
| 108) 1,3-dichlorobenzene | 9.397 | 146 | 84591 | 19.99 | ug/L | 97 |
| 109) p-isopropyltoluene | 9.413 | 119 | 159509 | 19.91 | ug/L | 96 |
| 110) 1,4-dichlorobenzene | 9.494 | 146 | 78833 | 19.00 | ug/L | 99 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 156851 | 19.05 | ug/L | 99 |
| 112) 1,2-dichlorobenzene | 9.850 | 146 | 76524 | 18.38 | ug/L | 95 |
| 113) n-butylbenzene | 9.814 | 92 | 78754 | 19.64 | ug/L | 92 |
| 114) 1,2-dibromo-3-chloropr... | 10.617 | 157 | 17483 | 17.91 | ug/L | 83 |
| 115) 1,3,5-trichlorobenzene | 10.803 | 180 | 52168 | 19.42 | ug/L | 95 |
| 116) 1,2,4-trichlorobenzene | 11.432 | 180 | 43035 | 19.79 | ug/L | 95 |
| 117) hexachlorobutadiene | 11.576 | 225 | 16674 | 19.15 | ug/L | 82 |
| 118) naphthalene | 11.695 | 128 | 135707 | 18.48 | ug/L | 99 |
| 119) 1,2,3-trichlorobenzene | 11.919 | 180 | 39346 | 19.98 | ug/L | 89 |
| 120) hexachloroethane | 10.116 | 119 | 29354 | 17.67 | ug/L | 96 |
| 121) benzyl chloride | 9.603 | 91 | 125759 | 17.54 | ug/L | 96 |
| 122) 2-methylnaphthalene | 12.828 | 142 | 19637 | 7.47 | ug/L | 94 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10042022\vl10517\
Data File : l347768.d
Acq On : 3 Oct 2022 11:43 am
Operator : nicoleh
Sample : cc10355-20 Inst : GCMSL
Misc : MS62644,VL10517,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 03 22:47:08 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration



# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | Column | Rxi-624(30mx0.25mmx1.4um) |
|---|---|---|---|---|---|---|
| Standard | ABK: V021-2752-121.29 | Ec:V021-2752-136.8 | AA:V021-2752-125.6 | EXT EC: V022-2752-126.1 | Method | v8260d |
| Standard Concentration | 100-10,000ppm | 100ppm | 100ppm | 100 ppm | Init Calib Date | 9/28/2022 |
| Expiration Date | 10/21/2022 | 10/5/2022 | 10/27/2022 | 10/4/2022 | | |
| Internal Surrogate | V021-2741-117 | | | | | |
| Internal Surrogate Concentration | 50/500ppm | | | | Analysis Date | 9/28/2022 |
| Expiration Date | 3/23/2022 | | | | Sequence loaded by | Prashant B. Shukla |
| Standard | EXT PA: v022-2752-83.3 | EXT Chlorodifluoromethane: V022-2752-120 | EXT ABK: V022-2752-101.3 | EXT Acrolein: V022-2752-128.21 | Data processed by | Mohui Huang |
| Standard Concentration | 100 ppm | 100 ppm | 100 ppm | 100 ppm | Batch ID | V1X8636 |
| Expiration Date | 9/30/2022 | 10/20/2022 | 10/8/2022 | 10/27/2022 | Matrix | AQ |
| | | | | | Approved By: | KANYAV |
| pH Paper Lot# (wide range): 223120 | Exp:8/15/2023 | | Initial Calibration Method | M1X8415 | Approved Date: | 10/8/2022 2:17:03 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1X | 200546 | BFB | | NA | | | 5 | | | 1 | ok | 8:11pm |
| 2X | 200547 | BFB | | NA | | | 5 | | | 2 | ok | 8:31pm |
| 1X | 200548 | IC8636-0.2 | | NA | | AQ Initical Calibration | 5 | | | 3 | ok | 1.0 ul abk, aa, ex / 500 ml |
| 2X | 200549 | IC8636-0.2 | | NA | | AQ Initical Calibration | 5 | | | 4 | ok | 1.0 ul abk, aa, ex / 500 ml |
| 1X | 200550 | IC8636-0.5 | | NA | | AQ Initical Calibration | 5 | | | 5 | ok | 1.0 ul abk, aa, ex / 200 ml |
| 2X | 200551 | IC8636-0.5 | | NA | | AQ Initical Calibration | 5 | | | 6 | ok | 1.0 ul abk, aa, ex / 200 ml |
| 1X | 200552 | IC8636-1.0 | | NA | | AQ Initical Calibration | 5 | | | 7 | ok | 1.0 ul abk, aa, ex / 100 ml |
| 2X | 200553 | IC8636-1.0 | | NA | | AQ Initical Calibration | 5 | | | 8 | ok | 1.0 ul abk, aa, ec / 100 ml |
| 1X | 200554 | IC8636-2.0 | | NA | | AQ Initical Calibration | 5 | | | 9 | ok | 2.0 ul abk, aa, ec / 100 ml |
| 2X | 200555 | IC8636-2.0 | | NA | | AQ Initical Calibration | 5 | | | 10 | ok | 2.0 ul abk, aa, ec / 100 ml |
| 1X | 200556 | IC8636-4.0 | | NA | | AQ Initical Calibration | 5 | | | 11 | ok | 4.0 ul abk, aa, ec / 100 ml |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2X | 200557 | IC8636-4.0 | | NA | | AQ Initical Calibration | 5 | | | 12 | ok | 4.0 ul abk, aa, ec / 100 ml |
| 1X | 200558 | IC8636-8.0 | | NA | | AQ Initical Calibration | 5 | | | 13 | ok | 8.0 ul abk, aa, ec / 100 ml |
| 2X | 200559 | IC8636-8.0 | | NA | | AQ Initical Calibration | 5 | | | 14 | ok | 8.0 ul abk, aa, ec / 100 ml |
| 1X | 200560 | IC8636-20 | | NA | | AQ Initical Calibration | 5 | | | 15 | ok | 20 ul abk, aa, ec / 100 ml |
| 2X | 200561 | IC8636-20 | | NA | | AQ Initical Calibration | 5 | | | 16 | ok | 20 ul abk, aa, ec / 100 ml |
| 1X | 200562 | ICC8636-50 | | NA | | AQ Initical Calibration | 5 | | | 17 | ok | 50 ul abk, aa, ec / 100 ml |
| 2X | 200563 | ICC8636-50 | | NA | | AQ Initical Calibration | 5 | | | 18 | ok | 50 ul abk, aa, ec / 100 ml |
| 1X | 200564 | IC8636-100 | | NA | | AQ Initical Calibration | 5 | | | 19 | ok | 100 ul abk, aa, ec / 100 ml |
| 2X | 200565 | IC8636-100 | | NA | | AQ Initical Calibration | 5 | | | 20 | ok | 100 ul abk, aa, ec / 100 ml |
| 1X | 200566 | IC8636-200 | | NA | | AQ Initical Calibration | 5 | | | 21 | ok | 200 ul abk, aa, ec / 100 ml |
| 2X | 200567 | IC8636-200 | | NA | | AQ Initical Calibration | 5 | | | 22 | ok | 200 ul abk, aa, ec / 100 ml |
| 1X | 200568 | IB | | NA | | | 5 | | | 23 | | |
| 2X | 200569 | IB | | NA | | | 5 | | | 24 | | |
| 1X | 200570 | IB | | NA | | | 5 | | | 25 | | |
| 2X | 200571 | IB | | NA | | | 5 | | | 26 | | |
| 1X | 200572 | ICV8636-50 | | NA | | AQ Initical Calibration | 5 | | | 27 | ok | 50 uL EXT ABK, EXT EC, EXT Acrolein / 100 mL DI H2O |
| 2X | 200573 | ICV8636-50 | | NA | | AQ Initical Calibration | 5 | | | 28 | ok | 50 uL EXT ABK, EXT EC, EXT Acrolein / 100 mL DI H2O |
| 1X | 200574 | ICV8636-50 | | NA | | AQ Initical Calibration | 5 | | | 29 | ok | 50 uL EXT PA, EXT Chlorodifluoromethan / 100 mL DI H2O |
| 2X | 200575 | ICV8636-50 | | NA | | AQ Initical Calibration | 5 | | | 30 | ok | 50 uL EXT PA, EXT Chlorodifluoromethan / 100 mL DI H2O |

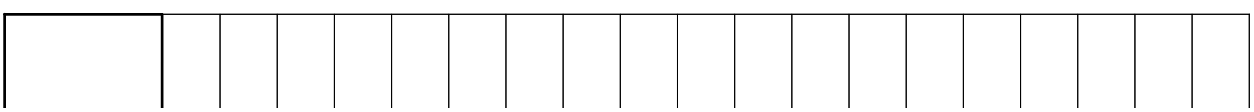
# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | Column | Rxi-624(60mx0.25mmx1.4um) |
|---|---|---|---|---|---|---|
| Standard | ABK: V022-2752-121.29 | EC: V022-2752-132.6 | AA: V022-2752-125.6 | | Method | V8260D |
| Concentration | 100-10,000ppm | 100ppm | 100ppm | | Init Calib Date | 9/28/2022 |
| Expiration | 10/21/2022 | 10/5/2022 | 10/27/2022 | | | |
| Internal/Surrogate | V022-2752-94 | | | | | |
| Concentration | 50/500ppm | | | | Analysis Date | 9/30/2022 |
| Expiration | 10/3/2022 | | | | Sequence loaded by | taylors |
| | | | | | Data processed by | Lotusa |
| | | | | | Batch ID | V1X8639 |
| Rough reviewed by | | | | | Matrix | AQ |
| | | | | | Approved By: | MOHUI |
| pH Paper Lot# (wide range): 222221 | Exp. 8/1/2024 | | Initial Calibration Method | M1X8636 | Approved Date: | 10/8/2022 5:33:51 PM |

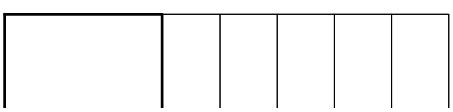
| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1x | 200639 | IB | | NA | | | 5 | | | 1 | OK | |
| 1x | 200640 | IB | | NA | | | 5 | | | 2 | OK | |
| 1x | 200641 | CC8636-20 | | NA | | | 5 | | | 3 | ng | not used, 20 ul abk, aa, ec / 100 ml |
| 1x | 200642 | IB | | NA | | | 5 | | | 4 | OK | |
| 1x | 200643 | BFB/CC8636-20 | | NA | | | 5 | | | 5 | OK/OK | 9:46am, 20 ul abk, aa, ec / 100 ml |
| 1x | 200644 | CC8636-1 | | NA | | | 5 | | | 6 | OK | 1 ul abk, aa, ec / 100 ml |
| 1x | 200645 | BS | | NA | | | 5 | | | 7 | OK | 50 ul abk, aa, ec / 100 ml |
| 1x | 200646 | IB | | NA | | | 5 | | | 8 | OK | |
| 1x | 200647 | MB | | NA | | | 5 | | | 9 | OK | |
| 1x | 200648 | JD52514-8 | 1 | 100x | MS62508 | V8260TCL42 | 0.5/50 | | 1 | 10 | OK | |

ix1.4um)
PM

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1x | 200649 | JD52514-8 | 1 | 10x | MS62508 | V8260TCL42 | 5/50 | | 1 | 11 | OK | |
| 1x | 200650 | JD52514-1 | 1 | NA | MS62508 | V8260TCL42 | 5 | | 1 | 12 | OK | +4D121709 |
| 1x | 200651 | JD52514-9 | 1 | 5x | MS62508 | V8260TCL42 | 10/50 | | 1 | 13 | OK | +4D121716 |
| 1x | 200652 | JD52514-6 | 2 | 2x | MS62508 | V8260TCL42 | 25/50 | | 1 | 14 | OK | +4D121713 |
| 1x | 200653 | JD52514-2 | 1 | NA | MS62508 | V8260TCL42 | 5 | | 1 | 15 | OK | +4D121702 |
| 1x | 200654 | JD52514-7 | 1 | 5x | MS62508 | V8260TCL42 | 10/50 | | 1 | 16 | OK | +4D121714 |
| 1x | 200655 | JD52514-4 | 2 | 25x | MS62508 | V8260TCL42 | 2/50 | | 1 | 17 | OK | +4D121711 |
| 1x | 200656 | JD52514-5 | 2 | 2x | MS62508 | V8260TCL42 | 25/50 | | 1 | 18 | OK | +4D121712 |
| 1x | 200657 | JD52514-3 | 2 | 2x | MS62508 | V8260TCL42 | 25/50 | | 1 | 19 | OK | +4D121710 |
| 1x | 200658 | JD52514-8MS | 1 | 10x | MS62508 | V8260TCL42 | 5/50 | | 1 | 20 | OK | 25 ul abk, aa, ec / 50 ml |
| 1x | 200659 | JD52514-8MSD | 1 | 10x | MS62508 | V8260TCL42 | 5/50 | | 1 | 21 | OK | 25 ul abk, aa, ec / 50 ml |
| 1x | 200660 | JD52514-2 | 1 | 10x | MS62508 | V8260TCL42 | 5/50 | | 1 | 22 | OK | for confirmation |
| 1x | 200661 | JD52514-7 | 1 | 50x | MS62508 | V8260TCL42 | 1/50 | | 1 | 23 | OK | for confirmation |
| 1x | 200662 | JD52721-2 | 1 | NA | MS62612 | V8260SL | 5 | | 1 | 24 | OK | |
| 1x | 200663 | JD52717-12 | 7 | NA | MS62612 | V8260TCL20+ | 5 | | 1 | 25 | OK | |
| 1x | 200664 | JD52717-13 | 1 | NA | MS62612 | V8260TCL20+ | 5 | | 1 | 26 | OK | |
| 1x | 200665 | JD52717-1 | 5 | NA | MS62612 | V8260TCL20+ | 5 | | 1 | 27 | OK | |
| 1x | 200666 | JD52717-2 | 6 | NA | MS62612 | V8260TCL20+ | 5 | | 1 | 28 | OK | |
| 1x | 200667 | JD52717-3 | 6 | NA | MS62612 | V8260TCL20+ | 5 | | 1 | 29 | ok | |



| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1x | 200668 | JD52717-4 | 6 | NA | MS62612 | V8260TCL20+ | 5 | | 1 | 30 | OK | |
| 1x | 200669 | JD52717-11 | 6 | NA | MS62612 | V8260TCL20+ | 5 | | 1 | 31 | OK | |
| 1x | 200670 | JD52626-3 | 8 | NA | MS62566 | V8260TCL20+ | 5 | | 1 | 32 | ok/rr | cchit |
| 1x | 200671 | JD52504-2 | 3 | NA | MS62505 | V8260CP51GTCL20 | 5 | | 1 | 33 | OK | |
| 1x | 200672 | JD52504-3 | 4 | NA | MS62505 | V8260CP51G | 5 | | 1 | 34 | OK | 9:01pm |



# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | | |
|---|---|---|---|---|---|---|
| Standard | ABK: V022-2752-121.29 | EC: V022-2752-132.6 | AA: V022-2752-125.6 | | Column | Rxi-624(60mx0.25mmx1.4um) |
| Concentration | 100-10,000ppm | 100ppm | 100ppm | | Method | v8260d |
| Expiration | 10/21/2022 | 10/5/2022 | 10/27/2022 | | Init Calib Date | 7/6/2022 |
| Internal/Surrogate | V022-2752-94 | | | | | |
| Concentration | 50/500ppm | | | | Analysis Date | 9/30/2022 |
| Expiration | 10/3/2022 | | | | Sequence loaded by | taylors |
| | | | | | Data processed by | luckyc |
| | | | | | Batch ID | V1X8640 |
| Rough reviewed by | | | | | Matrix | AQ |
| | | | | | Approved By: | MOHUI |
| pH Paper Lot# (wide range): 222221 | Exp. 8/1/2024 | | Initial Calibration Method | M1X8636 | Approved Date: | 10/10/2022 2:43:15 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1X | 200673 | IB | | NA | | | 5 | | | 1 | ok | |
| 1X | 200674 | BFB/CC8636-50 | | NA | | | 5 | | | 2 | ok/ok | 50 ul abk, aa, ec / 100 ml; 9:48pm |
| 1X | 200675 | CC8636-1 | | NA | | | 5 | | | 3 | ok | 1 ul abk, aa, ec / 100 ml |
| 1X | 200676 | BS | | NA | | | 5 | | | 4 | ok | 50 ul abk, aa, ec / 100 ml, #12 +#60 within marginal exceedance |
| 1X | 200677 | IB | | NA | | | 5 | | | 5 | ok | |
| 1X | 200678 | MB | | NA | | | 5 | | | 6 | ok | |
| 1X | 200679 | JD52697-12 | 9 | NA | MS62585 | V8260TCL20+ | 5 | | 1 | 7 | ok | |
| 1X | 200680 | JD52697-13 | 2 | NA | MS62585 | V8260TCL20+ | 5 | | 1 | 8 | ok | |
| 1X | 200681 | JD52697-5 | 8 | 20x | MS62585 | V8260TCL20+ | 2.5/50 | | 1 | 9 | rr | rr o/d |
| 1X | 200682 | JD52697-3 | 11 | 200x | MS62585 | V8260TCL20+ | 0.25/50 | | 1 | 10 | rr | rr o/d |
| 1X | 200683 | JD52697-5MS | 8 | 20x | MS62585 | V8260TCL20+ | 2.5/50 | | 1 | 11 | ok | 25 ul abk, aa, ec / 50 ml |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1X | 200684 | JD52697-5MSD | 8 | 20x | MS62585 | V8260TCL20+ | 2.5/50 | | 1 | 12 | ok | 25 ul abk, aa, ec / 50 ml |
| 1X | 200685 | JD52697-3 | 11 | 2000x | MS62585 | V8260TCL20+ | 0.025/50 | | 1 | 13 | ok | |
| 1X | 200686 | JD52763-2 | 3 | NA | MS62628 | V8260SL | 5 | | 1 | 14 | NotNeed | Cancelled per TS 10/3/22 |
| 1X | 200687 | JD52763-1 | 2 | NA | MS62628 | V8260SL | 5 | | 1 | 15 | rr | rr cc hit |
| 1X | 200688 | JD52697-1 | 11 | NA | MS62585 | V8260TCL20+ | 5 | | 1 | 16 | ok | |
| 1X | 200689 | JD52697-2 | 11 | NA | MS62585 | V8260TCL20+ | 5 | | 1 | 17 | rr | rr cc hit |
| 1X | 200690 | JD52697-4 | 7 | NA | MS62585 | V8260TCL20+ | 5 | | 1 | 18 | ok | |
| 1X | 200691 | JD52697-6 | 7 | NA | MS62585 | V8260TCL20+ | 5 | | 1 | 19 | rr | rr cc hit |
| 1X | 200692 | JD52697-7 | 7 | NA | MS62585 | V8260TCL20+ | 5 | | 1 | 20 | rr | rr cc hit |
| 1X | 200693 | JD52697-8 | 9 | 4x | MS62585 | V8260TCL20+ | 12.5/50 | | 1 | 21 | rr | rr cc hit, f/d |
| 1X | 200694 | JD52697-9 | 10 | 5 | MS62585 | V8260TCL20+ | 10/50 | | 1 | 22 | rr | rr cc hit, f/d |
| 1X | 200695 | JD52697-10 | 7 | 10x | MS62585 | V8260TCL20+ | 5/50 | | 1 | 23 | rr | f/d |
| 1X | 200696 | JD52697-11 | 4 | NA | MS62585 | V8260TCL20+ | 5 | | 3 | 24 | ok | |
| 1X | 200697 | JD52569-1 | 1 | NA | MS62543 | V8260NHF | 5 | | 1 | 25 | ok | |
| 1X | 200698 | JD52569-2 | 1 | NA | MS62543 | V8260NHF | 5 | | 1 | 26 | rr | f/d |
| 1X | 200699 | JD52569-3 | 1 | 4x | MS62543 | V8260NHF | 12.5/50 | | 1 | 27 | rr | f/d |
| 1X | 200700 | JD52569-4 | 2 | NA | MS62543 | V8260NHF | 5 | | 1 | 28 | ok | 7:51 am |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | Column | Rxi-624(60mx0.25mmx1.4um) |
|---|---|---|---|---|---|---|
| Standards | ABK: V022-2752-36.15 | EC: V022-2752-42.1 | AA: V021-2752-40.58 | Ext.Chlorodifluoromethane: V022-2752-31 | Method | V8260D |
| Concentration | 100-10,000ppm | 100ppm | 100ppm | 100ppm | Init Calib Date | 5/6/2022 |
| Expiration | 8/23/2022 | 8/4/2022 | 8/28/2022 | 8/21/2022 | | |
| Ext.Standards | Ext.ABK: V022-2752-29.4 | Ext.EC: V022-2752-43.3 | Ext.Acrolein: V022-2752-39.9 | Ext.PA: V022-2752-38.9 | | |
| Concentration | 100-10,000ppm | 100ppm | 100ppm | 100-1,000ppm | Analysis Date | 7/31/2022 |
| Expiration | 8/18/2022 | 8/5/2022 | 8/26/2022 | 8/26/2022 | Sequence loaded by | Prashant B. Shukla |
| Internal/Surrogate | V022-2752-20 | | | | Data processed by | Mohui Huang |
| Concentration | 250/2500ppm | | | | Batch ID | V2A9511 |
| Expiration | 8/14/2022 | | | | Matrix | AQ |
| Rough reviewed by | | | | | Approved By: | KANYAV |
| pH Paper Lot# (wide range):222221 | Exp. 8/1/2024 | | Initial Calibration Method | M2A9511 | Approved Date: | 8/1/2022 6:38:11 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2A | 218780 | BFB | | NA | | TUNE | 5 | | | 1 | ok | |
| 2A | 218781 | IC9511-0.2 | | NA | | ICC 8260 Water | 5 | | | 2 | ok | 1uL Std.A/B/K,EC,AA in 500mL DI H2O |
| 2A | 218782 | IC9511-0.5 | | NA | | ICC 8260 Water | 5 | | | 3 | ok | 1uL Std.A/B/K,EC,AA in 200mL DI H2O |
| 2A | 218783 | IC9511-1 | | NA | | ICC 8260 Water | 5 | | | 4 | ok | 1uL Std.A/B/K,EC,AA in 100mL DI H2O |
| 2A | 218784 | IC9511-2 | | NA | | ICC 8260 Water | 5 | | | 5 | ok | 1uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 2A | 218785 | IC9511-4 | | NA | | ICC 8260 Water | 5 | | | 6 | ok | 2uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 2A | 218786 | IC9511-8 | | NA | | ICC 8260 Water | 5 | | | 7 | ok | 4uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 2A | 218787 | IC9511-20 | | NA | | ICC 8260 Water | 5 | | | 8 | ok | 10uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 2A | 218788 | ICC9511-50 | | NA | | ICC 8260 Water | 5 | | | 9 | ok | 25uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 2A | 218789 | IC9511-100 | | NA | | ICC 8260 Water | 5 | | | 10 | ok | 50uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 2A | 218790 | IC9511-200 | | NA | | ICC 8260 Water | 5 | | | 11 | ok | 100uL Std.A/B/K,EC,AA in 50mL DI H2O |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2A | 218791 | IB | | NA | | | 5 | | | 12 | OK | |
| 2A | 218792 | IB | | NA | | | 5 | | | 13 | OK | |
| 2A | 218793 | ICV9511-50 | | NA | | ICV 8260 Water | 5 | | | 14 | ok | 25uL Ext.A/B/K,EC,Acrolein, in 50mL DI H2O |
| 2A | 218794 | ICV9511-50 | | NA | | ICV 8260 Water | 5 | | | 15 | ok | 25uL Ext.PA,Chlorodifluoromethane in 50mL DI H2O |
| 2A | 218795 | IB | | NA | | | 5 | | | 16 | OK | |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | Column | Rxi-624(60mx0.25mmx1.4um) |
|---|---|---|---|---|---|---|
| Standard | ABK: V022-2752-121.7 | EC: V022-2752-132.7 | AA: V022-2752-125.1 | | Method | V8260D |
| Standard Concentration | 100-10,000ppm | 100ppm | 100ppm | | Init Calib Date | 7/31/22 |
| Expiration Date | 10/21/2022 | 10/5/2022 | 10/27/2022 | | | |
| Internal Surrogate | V022-2752-93 | | | | | |
| Internal Surrogate Concentration | 50/500ppm | | | | Analysis Date | 9/30/2022 |
| Expiration Date | 10/3/2022 | | | | Sequence loaded by | nicoleh |
| | | | | | Data processed by | Lotusa |
| | | | | | Batch ID | V2A9583 |
| Rough reviewed by | | | | | Matrix | AQ |
| | | | | | Approved By: | MEI |
| pH paper Lot# (wide range): | 222221 | 81/2024 | Initial Calibration Method | M2A9511 | Approved Date: | 10/5/2022 4:07:04 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2A | 220437 | IB | | NA | | | 5 | | | 1 | OK | |
| 2A | 220438 | BFB/CC9511-20 | | NA | | | 5 | | | 2 | OK | 9:16AM 20uL abk ec aa / 100mL |
| 2A | 220439 | CC9511-1 | | NA | | | 5 | | | 3 | OK | 1uL abk ec aa / 100mL |
| 2A | 220440 | BS | | NA | | | 5 | | | 4 | OK | 50uL abk ec aa / 100mL |
| 2A | 220441 | IB | | NA | | | 5 | | | 5 | OK | |
| 2A | 220442 | MB | | NA | | | 5 | | | 6 | OK | |
| 2A | 220443 | JD52572-11 | 1 | NA | MS62546 | V8260TCL20+ | 5 | | 7 | 7 | OK | 123TMB,NAP,NBBNZ,NPBNZ,SBBNZ,TBA |
| 2A | 220444 | JD52507-12 | 1 | 100x | MS62506 | V8260TCL42 | 0.5/50 | | 1 | 8 | OK | +2v93015 |
| 2A | 220445 | JD52680-6 | 1 | 10x | MS62593 | V8260TCL20+, TBA | 5/50 | | 1 | 9 | OK/rr | o/d |
| 2A | 220446 | JD52507-13 | 1 | 100x | MS62506 | V8260TCL42 | 0.5/50 | | 1 | 10 | OK | +2v93015 |
| 2A | 220447 | JD52514-12 | 2 | 5x | MS62508 | V8260TCL42 | 10/50 | | 1 | 11 | OK | +2a220449 |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2A | 220448 | JD52680-4 | 1 | 10x | MS62593 | V8260TCL20+, TBA | 5/50 | | 1 | 12 | OK/rr | 10x/100x ccit and c/o and f/d |
| 2A | 220449 | JD52514-12 | 2 | 50x | MS62508 | V8260TCL42 | 1/50 | | 1 | 13 | OK | |
| 2A | 220450 | JD52602-3 | 8 | NA | MS62550 | V8260TCL | 5 | | 1 | 14 | OK | +3d182123 |
| 2A | 220451 | JD52514-12MS | 2 | 5x | MS62508 | V8260TCL42 | 10/50 | | 1 | 15 | OK | 25uL abk ec aa / 50mL |
| 2A | 220452 | JD52514-12MSD | 2 | 5x | MS62508 | V8260TCL42 | 10/50 | | 1 | 16 | OK | 25uL abk ec aa / 50mL |
| 2A | 220453 | IB | | NA | | | 5 | | | 17 | OK | |
| 2A | 220454 | JD52661-2 | 2 | NA | MS62593 | V8260SL2 | 5 | | 1 | 18 | OK | |
| 2A | 220455 | JD52602-5 | 8 | NA | MS62550 | V8260TCL | 5 | | 1 | 19 | OK | |
| 2A | 220456 | JD52602-6 | 7 | NA | MS62550 | V8260TCL | 5 | | 1 | 20 | OK | |
| 2A | 220457 | JD52602-7 | 8 | NA | MS62550 | V8260TCL | 5 | | 1 | 21 | OK | |
| 2A | 220458 | JD52661-1 | 13 | NA | MS62593 | V8260SL2 | 5 | | 1 | 22 | OK | |
| 2A | 220459 | JD52680-1 | 1 | NA | MS62593 | V8260TCL20+, TBA | 5 | | 1 | 23 | OK | |
| 2A | 220460 | JD52680-3 | 2 | NA | MS62593 | V8260TCL20+, TBA | 5 | | 1 | 24 | OK/rr | cchit |
| 2A | 220461 | JD52680-2 | 1 | 4x | MS62593 | V8260TCL20+, TBA | 12.5/50 | | 1 | 25 | OK/rr | cchit |
| 2A | 220462 | JD52680-5 | 2 | 4x | MS62593 | V8260TCL20+, TBA | 12.5/50 | | 1 | 26 | OK/rr | 8:49pm cchit |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | Column | Rxi-624(30mx0.25mmx1.4um) |
|---|---|---|---|---|---|---|
| Standard | ABK: V022-2752-36.37 | EC: V022-2752-59.6 | AA: V022-2752-40.25 | EXT.chlorodifluoromethane:V022-2752-31 | Method | V8260D |
| Standard Concentration | 100-10,000ppm | 100ppm | 100ppm | 100PPM | Init Calib Date | 8/13/2022 |
| Expiration Date | 8/23/22 | 8/18/2022 | 8/28/22 | 8/21/2022 | | |
| Standard | EXT.ABK:V022-2752-29.4 | EXT.EC:V022-2752-61.3 | EXT Acrolein:V022-2752-39.6 | Ext.PA:V022-2752-38.9 | | |
| Standard Concentration | 100-10000PPM | 100PPM | 100PPM | 100PPM | Analysis Date | 8/13/2022 |
| Expiration Date | 8/18/2022 | 8/19/2022 | 8/26/2022 | 8/26/2022 | Sequence loaded by | prashant |
| Internal Surrogate | V022-2747-48 | | | | Data processed by | Bridget K |
| Internal Surrogate Concentration | 50/500ppm | | | | Batch ID | V4D5341 |
| Expiration Date | 9/4/2022 | | | | Matrix | AQ |
| | | | | | Approved By: | KANYAV |
| pH paper Lot# (wide range): | 222221 | Exp. Date: 8/1/2024 | Initial Calibration Method | M4D5341 | Approved Date: | 8/18/2022 12:03:12 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4d | 120247 | BFB | | NA | | tune | 5 | | | 1 | ok | 7:58P.M. |
| 4d | 120248 | IC5341-0.2 | | NA | | ICC 8260 water | 5 | | | 2 | ok | 1uL ABK, AA, EC / 500mL |
| 4d | 120249 | IC5341-0.5 | | NA | | ICC 8260 water | 5 | | | 3 | ok | 1uL ABK, AA, EC / 200mL |
| 4d | 120250 | IC5341-1.0 | | NA | | ICC 8260 water | 5 | | | 4 | ok | 1uL ABK, AA, EC / 100mL |
| 4d | 120251 | IC5341-2 | | NA | | ICC 8260 water | 5 | | | 5 | ok | 2uL ABK, AA, EC / 100mL |
| 4d | 120252 | IC5341-4 | | NA | | ICC 8260 water | 5 | | | 6 | ok | 4uL ABK, AA, EC / 100mL |
| 4d | 120253 | IC5341-8 | | NA | | ICC 8260 water | 5 | | | 7 | ok | 8uL ABK, AA, EC / 100mL |
| 4d | 120254 | IC5341-20 | | NA | | ICC 8260 water | 5 | | | 8 | ok | 20uL ABK, AA, EC / 100mL |
| 4d | 120255 | IC5341-50 | | NA | | ICC 8260 water | 5 | | | 9 | ok | 50uL ABK, AA, EC / 100mL |
| 4d | 120256 | IC5341-100 | | NA | | ICC 8260 water | 5 | | | 10 | ok | 100uL ABK, AA, EC / 100mL |
| 4d | 120257 | IC5341-200 | | NA | | ICC 8260 water | 5 | | | 11 | ok | 200uL ABK, AA, EC / 100mL |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4d | 120258 | IB | | NA | | | 5 | | | 12 | ok | |
| 4d | 120259 | IB | | NA | | | 5 | | | 13 | ok | |
| 4d | 120260 | ICV5341-50 | | NA | | ICV 8260 water | 5 | | | 14 | ok | 50uL ext. ABK, Acrolein, EC / 100mL |
| 4d | 120261 | ICV5341-50 | | NA | | ICV 8260 water | 5 | | | 15 | ok | 50uL ext. PA, Chlorodifluoromethane / 100mL |
| 4d | 120262 | IB | | NA | | | 5 | | | 16 | ok | |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | | |
|---|---|---|---|---|---|---|
| Standard lot# | ABK: V022-2752-121.8 | EC: V022-2752-122.9 | AA: V022-2752-125.5 | | Column | Rxi-624(30mx0.25mmx1.4um) |
| Standard concentration | 100-10,000ppm | 100ppm | 100ppm | | Method | v8260d |
| Standard expiration date | 10/21/2022 | 9/29/2022 | 10/27/2022 | | Init Calib Date | 8/3/2022 |
| Internal/surrogate lot# | V022-2752-94 | | | | | |
| Internal/surrogate concentration | 50/500ppm | | | | Analysis Date | 9/29/2022 |
| Internal/surrogate expiration date | 10/3/2022 | | | | Sequence loaded by | taylors |
| | | | | | Data processed by | reneec |
| | | | | | Batch ID | V4D5406 |
| Rough reviewed by | | | | | Matrix | AQ |
| | | | | | Approved By: | MEI |
| pH Paper(wide-range) lot# 222221 | Exp. Date: 8/1/2024 | | Initial Calibration Method | M4D5341 | Approved Date: | 10/10/2022 1:02:17 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4D | 121695 | IB | | NA | | | 5 | | | 1 | ok | |
| 4D | 121696 | BFB/CC5341-50 | | NA | | | 5 | | | 2 | ok/ok | 8:44pm, 50 ul abk, aa, ec / 100 ml |
| 4D | 121697 | CC5341-1 | | NA | | | 5 | | | 3 | ok | 1 ul abk, aa, ec / 100 ml |
| 4D | 121698 | BS | | NA | | | 5 | | | 4 | ok | 50 ul abk, aa, ec / 100 ml |
| 4D | 121699 | IB | | NA | | | 5 | | | 5 | ok | |
| 4D | 121700 | MB | | NA | | | 5 | | | 6 | ok | |
| 4D | 121701 | JD52514-13 | 1 | NA | MS62508 | V8260TCL42 | 5 | | 1 | 7 | ok | |
| 4D | 121702 | JD52514-2 | 2 | 10x | MS62508 | V8260TCL42 | 5/50 | | 1 | 8 | ok/rr | cc hit; o/d |
| 4D | 121703 | JD52514-10 | 1 | NA | MS62508 | V8260TCL42 | 5 | | 1 | 9 | ok/rr | cc hit; f/d |
| 4D | 121704 | JD52514-11 | 2 | 50x | MS62508 | V8260TCL42 | 1/50 | | 1 | 10 | ok/rr | cc hit |
| 4D | 121705 | JD52514-2MS | 2 | 10x | MS62508 | V8260TCL42 | 5/50 | | 1 | 11 | ok | 25 ul abk, aa, ec / 50 ml |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4D | 121706 | JD52514-2MSD | 2 | 10x | MS62508 | V8260TCL42 | 5/50 | | 1 | 12 | ok | 25 ul abk, aa, ec / 50 ml |
| 4D | 121707 | JD52514-11 | 2 | 500x | MS62508 | V8260TCL42 | 0.1/50 | | 1 | 13 | ok | |
| 4D | 121708 | JD52557-5 | 1 | NA | MS62532 | V8260MASTD | 5 | | 1 | 14 | ok | |
| 4D | 121709 | JD52514-1 | 2 | 10x | MS62508 | V8260TCL42 | 5/50 | | 1 | 15 | ok/rr | o/d; cc hit |
| 4D | 121710 | JD52514-3 | 1 | 20x | MS62508 | V8260TCL42 | 2.5/50 | | 1 | 16 | ok/rr | o/d;cc hit |
| 4D | 121711 | JD52514-4 | 1 | 4x | MS62508 | V8260TCL42 | 12.5/50 | | 1 | 17 | ok/rr | f/d |
| 4D | 121712 | JD52514-5 | 1 | 5x | MS62508 | V8260TCL42 | 10/50 | | 1 | 18 | ok/rr | cc hit |
| 4D | 121713 | JD52514-6 | 1 | 10x | MS62508 | V8260TCL42 | 5/50 | | 1 | 19 | ok/rr | o/d |
| 4D | 121714 | JD52514-7 | 2 | 20x | MS62508 | V8260TCL42 | 2.5/50 | | 1 | 20 | ok/rr | o/d |
| 4D | 121715 | JD52514-8 | 2 | 10x | MS62508 | V8260TCL42 | 5/50 | | 6 | 21 | ok/rr | cc hit; f/d |
| 4D | 121716 | JD52514-9 | 2 | 10x | MS62508 | V8260TCL42 | 5/50 | | 1 | 22 | ok/rr | cc hit |
| 4D | 121717 | JD52514-12 | 1 | 4x | MS62508 | V8260TCL42 | 12.5/50 | | 1 | 23 | ok/rr | 6:52am, cc hit |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | Column | Rxi-624(60mx0.25mmx1.4um) |
|---|---|---|---|---|---|---|
| Standard | ABK: V022-2747-89.69 | EC: V022-2747-132.9 | AA: V022-2747-107.18 | | Method | V8260D |
| Standard Concentration | 100-10,000ppm | 100ppm | 100ppm | | Init Calib Date | 6/15/22 |
| Expiration Date | 6/16/22 | 6/22/22 | 6/27/2022 | | | |
| Internal Surrogate | V022-2747-129 | | EXT Chlorodifluoromethane v022-2747-127.1 | EXT Chlorodifluoromethane | | |
| Internal Surrogate Concentration | 50/500ppm | | 100ppm | 100ppm | Analysis Date | 6/15/2022 |
| Expiration Date | 7/14/2022 | | 7/11/22 | 7/11/22 | Sequence loaded by | Bridget Kelly |
| Standard | EXT ABK v022-2747-91.5 | EXT EC v022-2747-122.5 | EXT Acro v022-2747-101.9 | EXT PA v022-2747-92.1 | Data processed by | Bridget Kelly |
| Standard Concentration | 100-10,000ppm | 100ppm | 100ppm | 100/1000ppm | Batch ID | VL10355 |
| Expiration Date | 6/17/22 | 6/16/22 | 6/23/22 | 6/17/22 | Matrix | AQ |
| | | | | | Approved By: | KANYAV |
| pH paper Lot# (wide range): | 222221 | 81/2024 | Initial Calibration Method | ML10355 | Approved Date: | 6/21/2022 4:02:04 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | 342966 | IB | | NA | | | 5 | | | 1 | ok | |
| I | 342967 | BFB | | NA | | | 5 | | | 2 | ok | |
| I | 342968 | IC10355-0.2 | | NA | | V8260 initial calibration | 5 | | | 3 | ok | 2 uL ABK EC AA / 1000 mL |
| I | 342969 | IC10355-0.5 | | NA | | V8260 initial calibration | 5 | | | 4 | ok | 5 uL ABK EC AA / 1000 mL |
| I | 342970 | IC10355-1 | | NA | | V8260 initial calibration | 5 | | | 5 | ok | 1 uL ABK EC AA / 100 mL |
| I | 342971 | IC10355-2 | | NA | | V8260 initial calibration | 5 | | | 6 | ok | 2 uL ABK EC AA / 100 mL |
| I | 342972 | IC10355-4 | | NA | | V8260 initial calibration | 5 | | | 7 | ok | 4 uL ABK EC AA / 100 mL |
| I | 342973 | IC10355-8 | | NA | | V8260 initial calibration | 5 | | | 8 | ok | 8 uL ABK EC AA / 100 mL |
| I | 342974 | IC10355-20 | | NA | | V8260 initial calibration | 5 | | | 9 | ok | 20 uL ABK EC AA / 100 mL |
| I | 342975 | ICC10355-50 | | NA | | V8260 initial calibration | 5 | | | 10 | ok | 50 uL ABK EC AA / 100 mL |
| I | 342976 | IC10355-100 | | NA | | V8260 initial calibration | 5 | | | 11 | ok | 100 uL ABK EC AA / 100 mL |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | 342977 | IC10355-200 | | NA | | V8260 initial calibration | 5 | | | 12 | ok | 200 uL ABK EC AA / 100 mL |
| I | 342978 | IB | | NA | | | 5 | | | 13 | ok | |
| I | 342979 | IB | | NA | | | 5 | | | 14 | ok | |
| I | 342980 | ICV10355-50 | | NA | | V8260 initial calibration | 5 | | | 15 | ok | 50 uL EXT ABK EC Acro / 100 mL |
| I | 342981 | ICV10355-50 | | NA | | V8260 initial calibration | 5 | | | 16 | ok | 50 uL EXT PA Chlorodifluoromethane / 100 mL |
| I | 342982 | IB | | NA | | | 5 | | | 17 | ok | |
| I | 342983 | IB | | NA | | | 5 | | | 18 | ok | |
| I | 342984 | BFB2 | | NA | | | 5 | | | 19 | ok | |
| I | 342985 | ICV10355-50 | | NA | | V8260 initial calibration | 5 | | | 20 | ok | 50 uL EXT Chlorodifluoromethane / 100 mL |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | Column | Rxi-624(60mx0.25mmx1.4um) |
|---|---|---|---|---|---|---|
| Standard | ABK: V022-2752-121.7 | EC: V022-2752-132.7 | AA:V022-2752-125.4 | SL:V022-2752-129 | Method | V8260D |
| Standard Concentration | 100-10,000ppm | 100ppm | 100ppm | 100ppm | Init Calib Date | 5/17/2022 |
| Expiration Date | 10/21/2022 | 10/5/2022 | 10/27/2022 | 10/28/2022 | | |
| Internal Surrogate | V022-2752-97 | | | VINYL BROMIDE (VB | | |
| Internal Surrogate Concentration | 50/500ppm | | | 100ppm | Analysis Date | 10/3/2022 |
| Expiration Date | 10/3/2022 | | | 10/20/2022 | Sequence loaded by | nicoleh |
| | | | | | Data processed by | kristelv |
| | | | | | Batch ID | VL10517 |
| Rough reviewed by | | | | | Matrix | AQ |
| | | | | | Approved By: | MEI |
| pH paper Lot# (wide range): | 222221 | 81/2024 | Initial Calibration Method | ML10355, ML10365 | Approved Date: | 10/7/2022 9:19:36 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 347764 | IB | | NA | | | 5 | | | 2 | ok | |
| L | 347765 | CC10355-20 | | NA | | | 5 | | | 3 | ok | NO DATA POWER SURGE, 20uL ABK EC AA / 100mL |
| L | 347766 | IB | | NA | | | 5 | | | 4 | ok | |
| L | 347767 | IB | | NA | | | 5 | | | 5 | ok | |
| L | 347768 | BFB/CC10355-20 | | NA | | | 5 | | | 6 | ok/ok | 11:43am 20uL ABK EC AA / 100mL 5 PT SCAN (AVE 8.348:8.361) |
| L | 347769 | CC10355-1 | | NA | | | 5 | | | 7 | ok | 1uL ABK EC AA / 100mL |
| L | 347770 | BS | | NA | | | 5 | | | 8 | ok | 50uL ABK EC AA / 100mL |
| L | 347771 | IB | | NA | | | 5 | | | 9 | ok | |
| L | 347772 | MB | | NA | | | 5 | | | 10 | ok | |
| L | 347773 | JD52658-3 | 6 | NA | MS62580 | V8260TCL20+ | 5 | | 1 | 11 | ok | |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 347774 | JD52644-5 | 2 | NA | MS62577 | V8260TCL20,UNPR | 5 | | 5 | 12 | ok | |
| L | 347775 | JD52651-5 | 1 | NA | MS62573 | V8260BTX,VLS | 5 | | 1 | 13 | ok | |
| L | 347776 | JD52644-3 | 6 | 250x | MS62577 | V8260TCL20,UNPR | 0.2/50 | | 6 | 14 | ok | +L347782 |
| L | 347777 | JD52644-1 | 6 | 5x | MS62577 | V8260TCL20,UNPR | 10/50 | | 6 | 15 | ok | +L347785 |
| L | 347778 | JD52514-10 | 2 | 10x | MS62508 | V8260TCL42 | 5/50 | | 1 | 16 | ok | +L347779 |
| L | 347779 | JD52514-10 | 2 | NA | MS62508 | V8260TCL42 | 5 | | 1 | 17 | ok | |
| L | 347780 | JD52514-11 | 1 | 50x | MS62508 | V8260TCL42 | 1/50 | | 1 | 18 | ok | double checked client ids |
| L | 347781 | IB | | NA | | | 5 | | | 19 | ok | |
| L | 347782 | JD52644-3 | 6 | 25x | MS62577 | V8260TCL20,UNPR | 2/50 | | 6 | 20 | ok | |
| L | 347783 | JD52644-1MS | 6 | 5x | MS62577 | V8260TCL20,UNPR | 10/50 | | 6 | 21 | ok | 25uL ABK EC AA / 50mL |
| L | 347784 | JD52644-1MSD | 6 | 5x | MS62577 | V8260TCL20,UNPR | 10/50 | | 6 | 22 | ok | 25uL ABK EC AA / 50mL |
| L | 347785 | JD52644-1 | 6 | 25x | MS62577 | V8260TCL20,UNPR | 2/50 | | 6 | 23 | ok | |
| L | 347786 | JD52514-11 | 1 | 250x | MS62508 | V8260TCL42 | 0.2/50 | | 1 | 24 | ok | |
| L | 347787 | JD52658-12 | 5 | NA | MS62580 | V8260TCL20+ | 5 | | 1 | 25 | ok | |
| L | 347788 | JD52658-13 | 2 | NA | MS62580 | V8260TCL20+ | 5 | | 1 | 26 | ok | |
| L | 347789 | JD52701-7 | 1 | NA | MS62586 | V8260BTX | 5 | | 1 | 27 | ok | |
| L | 347790 | JD52701-9 | 1 | NA | MS62586 | V8260BTX | 5 | | 1 | 28 | ok | |
| L | 347791 | JD52570-1 | 2 | NA | MS62544 | V8260TCL20+,TBA | 5 | | 1 | 29 | ok | |
| L | 347792 | JD52701-1 | 1 | NA | MS62586 | V8260BTX | 5 | | 1 | 30 | ok | |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 347793 | JD52658-7 | 6 | NA | MS62580 | V8260TCL20+ | 5 | | 1 | 31 | ok | |
| L | 347794 | JD52658-8 | 6 | NA | MS62580 | V8260TCL20+ | 5 | | 1 | 32 | ok | |
| L | 347795 | JD52658-9 | 6 | NA | MS62580 | V8260TCL20+ | 5 | | 1 | 33 | ok | OK TO FLAG #22 |
| L | 347796 | JD52658-10 | 4 | NA | MS62580 | V8260TCL20+ | 5 | | 1 | 34 | ok | |
| L | 347797 | JD52658-11 | 3 | NA | MS62580 | V8260TCL20+ | 5 | | 1 | 35 | ok | |
| L | 347798 | JD52606-2 | 1 | NA | MS62551 | V8260BENZ | 5 | | 1 | 36 | ok | 11:29PM |

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*
*Automated Report*

Technical Report for

WSP USA Environment & Infrastructure Inc

EPT, Ithaca, NY

31401545.001 Task 01.63

SGS Job Number: JD52620



Sampling Date: 09/22/22

Report to:

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Total number of pages in report: **886**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.



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SGS North America Inc.

# Sample Summary

WSP USA Environment & Infrastructure Inc

**Job No:** JD52620

EPT, Ithaca, NY
Project No: 31401545.001 Task 01.63

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL | | | | | | | |
| JD52620-1 | 09/22/22 | 15:45 | NW | 09/26/22 | AIR | Soil Vapor Comp. | EW-1-62C |
| JD52620-2 | 09/22/22 | 15:47 | NW | 09/26/22 | AIR | Soil Vapor Comp. | EW-2-62C |
| JD52620-3 | 09/22/22 | 15:49 | NW | 09/26/22 | AIR | Soil Vapor Comp. | EW-3-60C |
| JD52620-4 | 09/22/22 | 15:49 | NW | 09/26/22 | AIR | Soil Vapor Comp. | EW-4-25B |
| JD52620-5 | 09/22/22 | 15:49 | NW | 09/26/22 | AIR | Soil Vapor Comp. | EW-5-25B |
| JD52620-6 | 09/22/22 | 15:49 | NW | 09/26/22 | AIR | Soil Vapor Comp. | EW-6-60C |
| JD52620-7 | 09/22/22 | 15:50 | NW | 09/26/22 | AIR | Soil Vapor Comp. | EW-7-25B |
| JD52620-8 | 09/22/22 | 15:27 | NW | 09/26/22 | AIR | Soil Vapor Comp. | EW-8-62C |
| JD52620-9 | 09/22/22 | 15:29 | NW | 09/26/22 | AIR | Soil Vapor Comp. | EW-9R-72C |
| JD52620-10 | 09/22/22 | 15:49 | NW | 09/26/22 | AIR | Soil Vapor Comp. | EW-10-25B |
| JD52620-11 | 09/22/22 | 15:29 | NW | 09/26/22 | AIR | Soil Vapor Comp. | EW-11-43C |
| JD52620-12 | 09/22/22 | 15:30 | NW | 09/26/22 | AIR | Soil Vapor Comp. | EW-12-45C |

# Sample Summary
(continued)

WSP USA Environment & Infrastructure Inc

**Job No:** JD52620

EPT, Ithaca, NY
Project No: 31401545.001 Task 01.63

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Matrix Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JD52620-13 | 09/22/22 | 15:50 | NW | 09/26/22 | AIR | Trip Blank Air | TRIP BLANK |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | WSP USA Environment & Infrastructure Inc | **Job No** | JD52620 |
| **Site:** | EPT, Ithaca, NY | **Report Date** | 10/4/2022 11:16:18 A |

On 09/26/2022, 12 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. A SGS North America Inc. Job Number of JD52620 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

## MS Volatiles By Method TO-15

**Matrix:** AIR **Batch ID:** V2W2735

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD52482-2DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

**Matrix:** AIR **Batch ID:** V2W2736

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD52620-8DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

**Matrix:** AIR **Batch ID:** V2W2737

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD52638-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

**Matrix:** AIR **Batch ID:** V6W1111

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD52615-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

# Summary of Hits

**Job Number:** JD52620
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 09/22/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **JD52620-1** | **EW-1-62C** | | | | | |
| Acetone (2-Propanone) | | 3.2 | 0.80 | 0.58 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.41 J | 0.80 | 0.13 | ppbv | TO-15 |
| cis-1,2-Dichloroethylene | | 1.6 | 0.16 | 0.31 | ppbv | TO-15 |
| Methylene chloride | | 1.5 | 0.80 | 0.22 | ppbv | TO-15 |
| Trichlorofluoromethane | | 0.52 | 0.40 | 0.14 | ppbv | TO-15 |
| Vinyl chloride | | 1.3 | 0.16 | 0.28 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 7.6 | 1.9 | 1.4 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 2.0 J | 4.0 | 0.64 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethylene | | 6.3 | 0.63 | 1.2 | ug/m3 | TO-15 |
| Methylene chloride | | 5.2 | 2.8 | 0.76 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 2.9 | 2.2 | 0.79 | ug/m3 | TO-15 |
| Vinyl chloride | | 3.3 | 0.41 | 0.72 | ug/m3 | TO-15 |
| **JD52620-2** | **EW-2-62C** | | | | | |
| Acetone (2-Propanone) | | 2.6 | 0.80 | 0.58 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.43 J | 0.80 | 0.13 | ppbv | TO-15 |
| cis-1,2-Dichloroethylene | | 29.6 | 0.16 | 0.31 | ppbv | TO-15 |
| Ethanol | | 3.4 | 2.0 | 1.6 | ppbv | TO-15 |
| Ethyl Acetate | | 90.3 | 0.80 | 0.42 | ppbv | TO-15 |
| Isopropyl Alcohol | | 1.1 | 0.80 | 0.56 | ppbv | TO-15 |
| Methylene chloride | | 0.79 J | 0.80 | 0.22 | ppbv | TO-15 |
| Methyl ethyl ketone | | 0.88 | 0.80 | 0.44 | ppbv | TO-15 |
| Toluene | | 1.8 | 0.80 | 0.23 | ppbv | TO-15 |
| Trichloroethylene | | 35.3 | 0.16 | 0.076 | ppbv | TO-15 |
| Vinyl chloride | | 1.3 | 0.16 | 0.28 | ppbv | TO-15 |
| Vinyl Acetate | | 0.98 | 0.80 | 0.45 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 6.2 | 1.9 | 1.4 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 2.1 J | 4.0 | 0.64 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethylene | | 117 | 0.63 | 1.2 | ug/m3 | TO-15 |
| Ethanol | | 6.4 | 3.8 | 3.0 | ug/m3 | TO-15 |
| Ethyl Acetate | | 325 | 2.9 | 1.5 | ug/m3 | TO-15 |
| Isopropyl Alcohol | | 2.7 | 2.0 | 1.4 | ug/m3 | TO-15 |
| Methylene chloride | | 2.7 J | 2.8 | 0.76 | ug/m3 | TO-15 |
| Methyl ethyl ketone | | 2.6 | 2.4 | 1.3 | ug/m3 | TO-15 |
| Toluene | | 6.8 | 3.0 | 0.87 | ug/m3 | TO-15 |
| Trichloroethylene | | 190 | 0.86 | 0.41 | ug/m3 | TO-15 |
| Vinyl chloride | | 3.3 | 0.41 | 0.72 | ug/m3 | TO-15 |
| Vinyl Acetate | | 3.4 | 2.8 | 1.6 | ug/m3 | TO-15 |
| **JD52620-3** | **EW-3-60C** | | | | | |
| Acetone (2-Propanone) | | 4.0 | 4.0 | 2.9 | ppbv | TO-15 |

# Summary of Hits

**Job Number:** JD52620
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 09/22/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethylene | | 7.1 | 0.80 | 1.2 | ppbv | TO-15 |
| trans-1,2-Dichloroethylene | | 18.0 | 4.0 | 1.4 | ppbv | TO-15 |
| cis-1,2-Dichloroethylene | | 1310 | 4.2 | 8.0 | ppbv | TO-15 |
| Ethyl Acetate | | 17.1 | 4.0 | 2.1 | ppbv | TO-15 |
| Tetrachloroethylene | | 0.73 J | 0.80 | 0.28 | ppbv | TO-15 |
| Trichloroethylene | | 992 | 4.2 | 2.0 | ppbv | TO-15 |
| Vinyl chloride | | 279 | 0.80 | 1.4 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 9.5 | 9.5 | 6.9 | ug/m3 | TO-15 |
| 1,1-Dichloroethylene | | 28 | 3.2 | 4.8 | ug/m3 | TO-15 |
| trans-1,2-Dichloroethylene | | 71.4 | 16 | 5.6 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethylene | | 5190 | 17 | 32 | ug/m3 | TO-15 |
| Ethyl Acetate | | 61.5 | 14 | 7.6 | ug/m3 | TO-15 |
| Tetrachloroethylene | | 5.0 J | 5.4 | 1.9 | ug/m3 | TO-15 |
| Trichloroethylene | | 5330 | 23 | 11 | ug/m3 | TO-15 |
| Vinyl chloride | | 713 | 2.0 | 3.6 | ug/m3 | TO-15 |
| **JD52620-4** | **EW-4-25B** | | | | | |
| trans-1,2-Dichloroethylene | | 12.2 J | 16 | 5.5 | ppbv | TO-15 |
| cis-1,2-Dichloroethylene | | 1330 | 3.2 | 6.2 | ppbv | TO-15 |
| Ethyl Acetate | | 21.6 | 16 | 8.3 | ppbv | TO-15 |
| Trichloroethylene | | 3370 | 3.2 | 1.5 | ppbv | TO-15 |
| Vinyl chloride | | 10.5 | 3.2 | 5.5 | ppbv | TO-15 |
| trans-1,2-Dichloroethylene | | 48.4 J | 63 | 22 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethylene | | 5270 | 13 | 25 | ug/m3 | TO-15 |
| Ethyl Acetate | | 77.7 | 58 | 30 | ug/m3 | TO-15 |
| Trichloroethylene | | 18100 | 17 | 8.1 | ug/m3 | TO-15 |
| Vinyl chloride | | 26.8 | 8.2 | 14 | ug/m3 | TO-15 |
| **JD52620-5** | **EW-5-25B** | | | | | |
| 1,1-Dichloroethylene | | 10.2 | 1.6 | 2.4 | ppbv | TO-15 |
| trans-1,2-Dichloroethylene | | 21.7 | 8.0 | 2.8 | ppbv | TO-15 |
| cis-1,2-Dichloroethylene | | 1490 | 3.9 | 7.6 | ppbv | TO-15 |
| Trichloroethylene | | 1390 | 1.6 | 0.76 | ppbv | TO-15 |
| Vinyl chloride | | 264 | 1.6 | 2.8 | ppbv | TO-15 |
| 1,1-Dichloroethylene | | 40.4 | 6.3 | 9.5 | ug/m3 | TO-15 |
| trans-1,2-Dichloroethylene | | 86.0 | 32 | 11 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethylene | | 5910 | 15 | 30 | ug/m3 | TO-15 |
| Trichloroethylene | | 7470 | 8.6 | 4.1 | ug/m3 | TO-15 |
| Vinyl chloride | | 675 | 4.1 | 7.2 | ug/m3 | TO-15 |
| **JD52620-6** | **EW-6-60C** | | | | | |
| 1,1-Dichloroethylene | | 6.4 | 0.80 | 1.2 | ppbv | TO-15 |

# Summary of Hits

**Job Number:** JD52620
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 09/22/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethylene | | 17.8 | 4.0 | 1.4 | ppbv | TO-15 |
| cis-1,2-Dichloroethylene | | 2310 | 3.7 | 7.1 | ppbv | TO-15 |
| Ethyl Acetate | | 24.1 | 4.0 | 2.1 | ppbv | TO-15 |
| Trichloroethylene | | 817 | 0.80 | 0.38 | ppbv | TO-15 |
| Vinyl chloride | | 183 | 0.80 | 1.4 | ppbv | TO-15 |
| 1,1-Dichloroethylene | | 25 | 3.2 | 4.8 | ug/m3 | TO-15 |
| trans-1,2-Dichloroethylene | | 70.6 | 16 | 5.6 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethylene | | 9160 | 15 | 28 | ug/m3 | TO-15 |
| Ethyl Acetate | | 86.7 | 14 | 7.6 | ug/m3 | TO-15 |
| Trichloroethylene | | 4390 | 4.3 | 2.0 | ug/m3 | TO-15 |
| Vinyl chloride | | 468 | 2.0 | 3.6 | ug/m3 | TO-15 |
| **JD52620-7** | **EW-7-25B** | | | | | |
| Acetone (2-Propanone) | | 2.8 | 0.80 | 0.58 | ppbv | TO-15 |
| 1,1-Dichloroethylene | | 1.0 | 0.16 | 0.24 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.42 J | 0.80 | 0.13 | ppbv | TO-15 |
| trans-1,2-Dichloroethylene | | 3.6 | 0.80 | 0.28 | ppbv | TO-15 |
| cis-1,2-Dichloroethylene | | 227 | 0.32 | 0.62 | ppbv | TO-15 |
| Ethanol | | 3.1 | 2.0 | 1.6 | ppbv | TO-15 |
| Ethyl Acetate | | 45.8 | 0.80 | 0.42 | ppbv | TO-15 |
| Isopropyl Alcohol | | 0.87 | 0.80 | 0.56 | ppbv | TO-15 |
| Methylene chloride | | 0.82 | 0.80 | 0.22 | ppbv | TO-15 |
| Tetrachloroethylene | | 0.15 J | 0.16 | 0.056 | ppbv | TO-15 |
| Toluene | | 1.1 | 0.80 | 0.23 | ppbv | TO-15 |
| Trichloroethylene | | 14.4 | 0.16 | 0.076 | ppbv | TO-15 |
| Trichlorofluoromethane | | 0.39 J | 0.40 | 0.14 | ppbv | TO-15 |
| Vinyl chloride | | 89.4 | 0.16 | 0.28 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 6.7 | 1.9 | 1.4 | ug/m3 | TO-15 |
| 1,1-Dichloroethylene | | 4.0 | 0.63 | 0.95 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 2.1 J | 4.0 | 0.64 | ug/m3 | TO-15 |
| trans-1,2-Dichloroethylene | | 14 | 3.2 | 1.1 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethylene | | 900 | 1.3 | 2.5 | ug/m3 | TO-15 |
| Ethanol | | 5.8 | 3.8 | 3.0 | ug/m3 | TO-15 |
| Ethyl Acetate | | 165 | 2.9 | 1.5 | ug/m3 | TO-15 |
| Isopropyl Alcohol | | 2.1 | 2.0 | 1.4 | ug/m3 | TO-15 |
| Methylene chloride | | 2.8 | 2.8 | 0.76 | ug/m3 | TO-15 |
| Tetrachloroethylene | | 1.0 J | 1.1 | 0.38 | ug/m3 | TO-15 |
| Toluene | | 4.1 | 3.0 | 0.87 | ug/m3 | TO-15 |
| Trichloroethylene | | 77.4 | 0.86 | 0.41 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 2.2 J | 2.2 | 0.79 | ug/m3 | TO-15 |
| Vinyl chloride | | 229 | 0.41 | 0.72 | ug/m3 | TO-15 |

# Summary of Hits

**Job Number:** JD52620
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 09/22/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **JD52620-8** | **EW-8-62C** | | | | | |
| Acetone (2-Propanone) | | 4.3 | 0.80 | 0.58 | ppbv | TO-15 |
| 1,1-Dichloroethylene | | 0.66 | 0.16 | 0.24 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.39 J | 0.80 | 0.13 | ppbv | TO-15 |
| trans-1,2-Dichloroethylene | | 2.3 | 0.80 | 0.28 | ppbv | TO-15 |
| cis-1,2-Dichloroethylene | | 339 | 0.80 | 1.5 | ppbv | TO-15 |
| Ethanol | | 3.1 | 2.0 | 1.6 | ppbv | TO-15 |
| Ethyl Acetate | | 67.4 | 0.80 | 0.42 | ppbv | TO-15 |
| Isopropyl Alcohol | | 0.86 | 0.80 | 0.56 | ppbv | TO-15 |
| Methyl ethyl ketone | | 0.57 J | 0.80 | 0.44 | ppbv | TO-15 |
| Toluene | | 1.7 | 0.80 | 0.23 | ppbv | TO-15 |
| Trichloroethylene | | 85.7 | 0.16 | 0.076 | ppbv | TO-15 |
| Vinyl chloride | | 22.1 | 0.16 | 0.28 | ppbv | TO-15 |
| Vinyl Acetate | | 0.83 | 0.80 | 0.45 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 10 | 1.9 | 1.4 | ug/m3 | TO-15 |
| 1,1-Dichloroethylene | | 2.6 | 0.63 | 0.95 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 1.9 J | 4.0 | 0.64 | ug/m3 | TO-15 |
| trans-1,2-Dichloroethylene | | 9.1 | 3.2 | 1.1 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethylene | | 1340 | 3.2 | 5.9 | ug/m3 | TO-15 |
| Ethanol | | 5.8 | 3.8 | 3.0 | ug/m3 | TO-15 |
| Ethyl Acetate | | 243 | 2.9 | 1.5 | ug/m3 | TO-15 |
| Isopropyl Alcohol | | 2.1 | 2.0 | 1.4 | ug/m3 | TO-15 |
| Methyl ethyl ketone | | 1.7 J | 2.4 | 1.3 | ug/m3 | TO-15 |
| Toluene | | 6.4 | 3.0 | 0.87 | ug/m3 | TO-15 |
| Trichloroethylene | | 461 | 0.86 | 0.41 | ug/m3 | TO-15 |
| Vinyl chloride | | 56.5 | 0.41 | 0.72 | ug/m3 | TO-15 |
| Vinyl Acetate | | 2.9 | 2.8 | 1.6 | ug/m3 | TO-15 |
| **JD52620-9** | **EW-9R-72C** | | | | | |
| Acetone (2-Propanone) | | 7.0 | 2.0 | 1.5 | ppbv | TO-15 |
| 1,1-Dichloroethylene | | 5.6 | 0.40 | 0.59 | ppbv | TO-15 |
| trans-1,2-Dichloroethylene | | 15.0 | 2.0 | 0.69 | ppbv | TO-15 |
| cis-1,2-Dichloroethylene | | 1520 | 3.6 | 7.0 | ppbv | TO-15 |
| Ethyl Acetate | | 6.9 | 2.0 | 1.0 | ppbv | TO-15 |
| Methyl ethyl ketone | | 2.1 | 2.0 | 1.1 | ppbv | TO-15 |
| Tetrahydrofuran | | 3.1 | 2.0 | 0.90 | ppbv | TO-15 |
| Trichloroethylene | | 477 | 0.40 | 0.19 | ppbv | TO-15 |
| Vinyl chloride | | 483 | 3.6 | 6.2 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 17 | 4.8 | 3.6 | ug/m3 | TO-15 |
| 1,1-Dichloroethylene | | 22 | 1.6 | 2.3 | ug/m3 | TO-15 |
| trans-1,2-Dichloroethylene | | 59.5 | 7.9 | 2.7 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethylene | | 6030 | 14 | 28 | ug/m3 | TO-15 |
| Ethyl Acetate | | 25 | 7.2 | 3.6 | ug/m3 | TO-15 |

# Summary of Hits

**Job Number:** JD52620
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 09/22/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| Methyl ethyl ketone | | 6.2 | 5.9 | 3.2 | ug/m3 | TO-15 |
| Tetrahydrofuran | | 9.1 | 5.9 | 2.7 | ug/m3 | TO-15 |
| Trichloroethylene | | 2560 | 2.1 | 1.0 | ug/m3 | TO-15 |
| Vinyl chloride | | 1230 | 9.2 | 16 | ug/m3 | TO-15 |
| **JD52620-10** | **EW-10-25B** | | | | | |
| Acetone (2-Propanone) | | 5.7 | 4.0 | 2.9 | ppbv | TO-15 |
| 1,1-Dichloroethylene | | 2.9 | 0.80 | 1.2 | ppbv | TO-15 |
| trans-1,2-Dichloroethylene | | 5.3 | 4.0 | 1.4 | ppbv | TO-15 |
| cis-1,2-Dichloroethylene | | 349 | 0.80 | 1.5 | ppbv | TO-15 |
| Ethyl Acetate | | 13.3 | 4.0 | 2.1 | ppbv | TO-15 |
| Trichloroethylene | | 604 | 0.80 | 0.38 | ppbv | TO-15 |
| Vinyl chloride | | 112 | 0.80 | 1.4 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 14 | 9.5 | 6.9 | ug/m3 | TO-15 |
| 1,1-Dichloroethylene | | 11 | 3.2 | 4.8 | ug/m3 | TO-15 |
| trans-1,2-Dichloroethylene | | 21 | 16 | 5.6 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethylene | | 1380 | 3.2 | 5.9 | ug/m3 | TO-15 |
| Ethyl Acetate | | 47.9 | 14 | 7.6 | ug/m3 | TO-15 |
| Trichloroethylene | | 3250 | 4.3 | 2.0 | ug/m3 | TO-15 |
| Vinyl chloride | | 286 | 2.0 | 3.6 | ug/m3 | TO-15 |
| **JD52620-11** | **EW-11-43C** | | | | | |
| 1,1-Dichloroethylene | | 201 | 45 | 66 | ppbv | TO-15 |
| trans-1,2-Dichloroethylene | | 174 J | 220 | 77 | ppbv | TO-15 |
| cis-1,2-Dichloroethylene | | 13700 | 45 | 86 | ppbv | TO-15 |
| Trichloroethylene | | 42200 | 45 | 21 | ppbv | TO-15 |
| Vinyl chloride | | 4250 | 45 | 77 | ppbv | TO-15 |
| 1,1-Dichloroethylene | | 797 | 180 | 260 | ug/m3 | TO-15 |
| trans-1,2-Dichloroethylene | | 690 J | 870 | 310 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethylene | | 54300 | 180 | 340 | ug/m3 | TO-15 |
| Trichloroethylene | | 227000 | 240 | 110 | ug/m3 | TO-15 |
| Vinyl chloride | | 10900 | 120 | 200 | ug/m3 | TO-15 |
| **JD52620-12** | **EW-12-45C** | | | | | |
| Acetone (2-Propanone) | | 5.5 | 0.80 | 0.58 | ppbv | TO-15 |
| Benzene | | 1.0 | 0.80 | 0.25 | ppbv | TO-15 |
| Carbon disulfide | | 0.79 J | 0.80 | 0.18 | ppbv | TO-15 |
| Chloromethane | | 2.1 | 0.80 | 0.36 | ppbv | TO-15 |
| 1,1-Dichloroethylene | | 0.71 | 0.16 | 0.24 | ppbv | TO-15 |
| Dichlorodifluoromethane | | 0.40 J | 0.80 | 0.13 | ppbv | TO-15 |
| trans-1,2-Dichloroethylene | | 0.64 J | 0.80 | 0.28 | ppbv | TO-15 |
| cis-1,2-Dichloroethylene | | 84.8 | 0.16 | 0.31 | ppbv | TO-15 |

# Summary of Hits

**Job Number:** JD52620
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 09/22/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| Ethyl Acetate | | 5.3 | 0.80 | 0.42 | ppbv | TO-15 |
| Methyl ethyl ketone | | 0.83 | 0.80 | 0.44 | ppbv | TO-15 |
| Propylene | | 2.5 | 2.0 | 0.57 | ppbv | TO-15 |
| Trichloroethylene | | 141 | 0.16 | 0.076 | ppbv | TO-15 |
| Vinyl chloride | | 38.1 | 0.16 | 0.28 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 13 | 1.9 | 1.4 | ug/m3 | TO-15 |
| Benzene | | 3.2 | 2.6 | 0.80 | ug/m3 | TO-15 |
| Carbon disulfide | | 2.5 J | 2.5 | 0.56 | ug/m3 | TO-15 |
| Chloromethane | | 4.3 | 1.7 | 0.74 | ug/m3 | TO-15 |
| 1,1-Dichloroethylene | | 2.8 | 0.63 | 0.95 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 2.0 J | 4.0 | 0.64 | ug/m3 | TO-15 |
| trans-1,2-Dichloroethylene | | 2.5 J | 3.2 | 1.1 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethylene | | 336 | 0.63 | 1.2 | ug/m3 | TO-15 |
| Ethyl Acetate | | 19 | 2.9 | 1.5 | ug/m3 | TO-15 |
| Methyl ethyl ketone | | 2.4 | 2.4 | 1.3 | ug/m3 | TO-15 |
| Propylene | | 4.3 | 3.4 | 0.98 | ug/m3 | TO-15 |
| Trichloroethylene | | 758 | 0.86 | 0.41 | ug/m3 | TO-15 |
| Vinyl chloride | | 97.4 | 0.41 | 0.72 | ug/m3 | TO-15 |
| **JD52620-13** | **TRIP BLANK** | | | | | |
| Acetone (2-Propanone) | | 1.1 | 0.80 | 0.58 | ppbv | TO-15 |
| Ethyl Acetate | | 5.5 | 0.80 | 0.42 | ppbv | TO-15 |
| Toluene | | 0.45 J | 0.80 | 0.23 | ppbv | TO-15 |
| Acetone (2-Propanone) | | 2.6 | 1.9 | 1.4 | ug/m3 | TO-15 |
| Ethyl Acetate | | 20 | 2.9 | 1.5 | ug/m3 | TO-15 |
| Toluene | | 1.7 J | 3.0 | 0.87 | ug/m3 | TO-15 |

## Sample Results

Report of Analysis

SGS North America Inc.

# Report of Analysis





**Client Sample ID:** EW-1-62C
**Lab Sample ID:** JD52620-1
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A676
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2W61650.D | 1 | 09/28/22 19:16 | TCH | n/a | n/a | V2W2735 |
| Run #2 | | | | | | | |

| | Initial Volume |
|---|---|
| Run #1 | 100 ml |
| Run #2 | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 3.2 | 0.80 | 0.58 | ppbv | | 7.6 | 1.9 | 1.4 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.80 | 0.34 | ppbv | | ND | 1.8 | 0.75 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | ND | 0.80 | 0.25 | ppbv | | ND | 2.6 | 0.80 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.40 | 0.12 | ppbv | | ND | 2.7 | 0.80 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.16 | 0.28 | ppbv | | ND | 1.7 | 2.9 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.1 | 1.1 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.80 | 0.50 | ppbv | | ND | 4.1 | 2.6 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 0.80 | 0.18 | ppbv | | ND | 2.5 | 0.56 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.80 | 0.30 | ppbv | | ND | 3.7 | 1.4 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.80 | 0.27 | ppbv | | ND | 2.1 | 0.71 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 0.80 | 0.15 | ppbv | | ND | 3.9 | 0.73 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 0.80 | 0.36 | ppbv | | ND | 1.7 | 0.74 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.80 | 0.33 | ppbv | | ND | 2.5 | 1.0 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.80 | 0.29 | ppbv | | ND | 4.1 | 1.5 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.16 | 0.16 | ppbv | | ND | 1.0 | 1.0 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 0.80 | 0.44 | ppbv | | ND | 2.8 | 1.5 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.80 | 0.23 | ppbv | | ND | 3.2 | 0.93 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.16 | 0.24 | ppbv | | ND | 0.63 | 0.95 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.40 | 0.39 | ppbv | | ND | 3.1 | 3.0 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | 1.1 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.80 | 0.25 | ppbv | | ND | 3.7 | 1.2 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.80 | 0.47 | ppbv | | ND | 2.9 | 1.7 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.41 | 0.80 | 0.13 | ppbv | J | 2.0 | 4.0 | 0.64 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.40 | 0.21 | ppbv | | ND | 3.4 | 1.8 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | 1.1 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | 1.6 | 0.16 | 0.31 | ppbv | | 6.3 | 0.63 | 1.2 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.80 | 0.25 | ppbv | | ND | 3.6 | 1.1 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.40 | 0.16 | ppbv | | ND | 2.4 | 0.96 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.16 | 0.62 | ppbv | | ND | 0.96 | 3.7 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.40 | 0.76 | ppbv | | ND | 2.4 | 4.6 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.80 | 0.40 | ppbv | | ND | 3.6 | 1.8 | ug/m3 |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** EW-1-62C
**Lab Sample ID:** JD52620-1
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A676
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64-17-5 | 46.07 | Ethanol | ND | 2.0 | 1.6 | ppbv | | ND | 3.8 | 3.0 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | ND | 0.80 | 0.42 | ppbv | | ND | 2.9 | 1.5 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 0.80 | 0.38 | ppbv | | ND | 3.9 | 1.9 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.40 | 0.12 | ppbv | | ND | 3.1 | 0.92 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.40 | 0.20 | ppbv | | ND | 2.8 | 1.4 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | ND | 0.80 | 0.37 | ppbv | | ND | 3.3 | 1.5 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.36 | 0.25 | ppbv | | ND | 3.8 | 2.7 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | 1.6 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.80 | 0.58 | ppbv | | ND | 3.3 | 2.4 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | ND | 0.80 | 0.56 | ppbv | | ND | 2.0 | 1.4 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | 1.5 | 0.80 | 0.22 | ppbv | | 5.2 | 2.8 | 0.76 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | ND | 0.80 | 0.44 | ppbv | | ND | 2.4 | 1.3 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.80 | 0.29 | ppbv | | ND | 3.3 | 1.2 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.80 | 0.32 | ppbv | | ND | 2.9 | 1.2 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.80 | 0.28 | ppbv | | ND | 3.3 | 1.1 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 2.0 | 0.57 | ppbv | | ND | 3.4 | 0.98 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 0.80 | 0.47 | ppbv | | ND | 3.4 | 2.0 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.40 | 0.19 | ppbv | | ND | 2.7 | 1.3 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.40 | 0.48 | ppbv | | ND | 3.0 | 3.6 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 0.80 | 0.35 | ppbv | | ND | 3.9 | 1.7 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 0.80 | 0.32 | ppbv | | ND | 3.9 | 1.6 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 0.80 | 0.38 | ppbv | | ND | 3.7 | 1.8 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 0.80 | 0.37 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | ND | 0.16 | 0.056 | ppbv | | ND | 1.1 | 0.38 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.80 | 0.36 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | ND | 0.80 | 0.23 | ppbv | | ND | 3.0 | 0.87 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | ND | 0.16 | 0.076 | ppbv | | ND | 0.86 | 0.41 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | 0.52 | 0.40 | 0.14 | ppbv | | 2.9 | 2.2 | 0.79 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | 1.3 | 0.16 | 0.28 | ppbv | | 3.3 | 0.41 | 0.72 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | 1.6 | ug/m3 |
| | 106.2 | m,p-Xylene | ND | 0.80 | 0.56 | ppbv | | ND | 3.5 | 2.4 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 105% | | 65-128% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





**Client Sample ID:** EW-2-62C
**Lab Sample ID:** JD52620-2
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A418
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2W61651.D | 1 | 09/28/22 19:49 | TCH | n/a | n/a | V2W2735 |
| Run #2 | | | | | | | |

| | Initial Volume |
|---|---|
| Run #1 | 100 ml |
| Run #2 | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 2.6 | 0.80 | 0.58 | ppbv | | 6.2 | 1.9 | 1.4 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.80 | 0.34 | ppbv | | ND | 1.8 | 0.75 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | ND | 0.80 | 0.25 | ppbv | | ND | 2.6 | 0.80 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.40 | 0.12 | ppbv | | ND | 2.7 | 0.80 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.16 | 0.28 | ppbv | | ND | 1.7 | 2.9 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.1 | 1.1 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.80 | 0.50 | ppbv | | ND | 4.1 | 2.6 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 0.80 | 0.18 | ppbv | | ND | 2.5 | 0.56 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.80 | 0.30 | ppbv | | ND | 3.7 | 1.4 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.80 | 0.27 | ppbv | | ND | 2.1 | 0.71 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 0.80 | 0.15 | ppbv | | ND | 3.9 | 0.73 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 0.80 | 0.36 | ppbv | | ND | 1.7 | 0.74 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.80 | 0.33 | ppbv | | ND | 2.5 | 1.0 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.80 | 0.29 | ppbv | | ND | 4.1 | 1.5 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.16 | 0.16 | ppbv | | ND | 1.0 | 1.0 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 0.80 | 0.44 | ppbv | | ND | 2.8 | 1.5 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.80 | 0.23 | ppbv | | ND | 3.2 | 0.93 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.16 | 0.24 | ppbv | | ND | 0.63 | 0.95 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.40 | 0.39 | ppbv | | ND | 3.1 | 3.0 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | 1.1 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.80 | 0.25 | ppbv | | ND | 3.7 | 1.2 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.80 | 0.47 | ppbv | | ND | 2.9 | 1.7 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.43 | 0.80 | 0.13 | ppbv | J | 2.1 | 4.0 | 0.64 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.40 | 0.21 | ppbv | | ND | 3.4 | 1.8 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | 1.1 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | 29.6 | 0.16 | 0.31 | ppbv | | 117 | 0.63 | 1.2 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.80 | 0.25 | ppbv | | ND | 3.6 | 1.1 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.40 | 0.16 | ppbv | | ND | 2.4 | 0.96 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.16 | 0.62 | ppbv | | ND | 0.96 | 3.7 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.40 | 0.76 | ppbv | | ND | 2.4 | 4.6 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.80 | 0.40 | ppbv | | ND | 3.6 | 1.8 | ug/m3 |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** EW-2-62C
**Lab Sample ID:** JD52620-2
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A418
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64-17-5 | 46.07 | Ethanol | 3.4 | 2.0 | 1.6 | ppbv | | 6.4 | 3.8 | 3.0 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 90.3 | 0.80 | 0.42 | ppbv | | 325 | 2.9 | 1.5 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 0.80 | 0.38 | ppbv | | ND | 3.9 | 1.9 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.40 | 0.12 | ppbv | | ND | 3.1 | 0.92 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.40 | 0.20 | ppbv | | ND | 2.8 | 1.4 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | ND | 0.80 | 0.37 | ppbv | | ND | 3.3 | 1.5 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.36 | 0.25 | ppbv | | ND | 3.8 | 2.7 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | 1.6 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.80 | 0.58 | ppbv | | ND | 3.3 | 2.4 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 1.1 | 0.80 | 0.56 | ppbv | | 2.7 | 2.0 | 1.4 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | 0.79 | 0.80 | 0.22 | ppbv | J | 2.7 | 2.8 | 0.76 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 0.88 | 0.80 | 0.44 | ppbv | | 2.6 | 2.4 | 1.3 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.80 | 0.29 | ppbv | | ND | 3.3 | 1.2 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.80 | 0.32 | ppbv | | ND | 2.9 | 1.2 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.80 | 0.28 | ppbv | | ND | 3.3 | 1.1 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 2.0 | 0.57 | ppbv | | ND | 3.4 | 0.98 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 0.80 | 0.47 | ppbv | | ND | 3.4 | 2.0 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.40 | 0.19 | ppbv | | ND | 2.7 | 1.3 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.40 | 0.48 | ppbv | | ND | 3.0 | 3.6 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 0.80 | 0.35 | ppbv | | ND | 3.9 | 1.7 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 0.80 | 0.32 | ppbv | | ND | 3.9 | 1.6 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 0.80 | 0.38 | ppbv | | ND | 3.7 | 1.8 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 0.80 | 0.37 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | ND | 0.16 | 0.056 | ppbv | | ND | 1.1 | 0.38 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.80 | 0.36 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 1.8 | 0.80 | 0.23 | ppbv | | 6.8 | 3.0 | 0.87 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 35.3 | 0.16 | 0.076 | ppbv | | 190 | 0.86 | 0.41 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | ND | 0.40 | 0.14 | ppbv | | ND | 2.2 | 0.79 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | 1.3 | 0.16 | 0.28 | ppbv | | 3.3 | 0.41 | 0.72 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | 0.98 | 0.80 | 0.45 | ppbv | | 3.4 | 2.8 | 1.6 | ug/m3 |
| | 106.2 | m,p-Xylene | ND | 0.80 | 0.56 | ppbv | | ND | 3.5 | 2.4 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 107% | | 65-128% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





**Client Sample ID:** EW-3-60C
**Lab Sample ID:** JD52620-3
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A797
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2W61659.D | 1 | 09/29/22 13:15 | TCH | n/a | n/a | V2W2736 |
| Run #2 | 6W26152.D | 1.3 | 09/30/22 01:51 | TCH | n/a | n/a | V6W1111 |

| | Initial Volume |
|---|---|
| Run #1 | 20.0 ml |
| Run #2 | 5.0 ml |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 4.0 | 4.0 | 2.9 | ppbv | | 9.5 | 9.5 | 6.9 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 4.0 | 1.7 | ppbv | | ND | 8.8 | 3.8 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | ND | 4.0 | 1.2 | ppbv | | ND | 13 | 3.8 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 2.0 | 0.60 | ppbv | | ND | 13 | 4.0 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.80 | 1.4 | ppbv | | ND | 8.3 | 14 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 4.0 | 1.4 | ppbv | | ND | 16 | 5.4 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 4.0 | 1.2 | ppbv | | ND | 17 | 5.2 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 4.0 | 2.5 | ppbv | | ND | 21 | 13 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 4.0 | 0.90 | ppbv | | ND | 12 | 2.8 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 4.0 | 1.5 | ppbv | | ND | 18 | 6.9 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 4.0 | 1.4 | ppbv | | ND | 11 | 3.7 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 4.0 | 0.74 | ppbv | | ND | 20 | 3.6 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 4.0 | 1.8 | ppbv | | ND | 8.3 | 3.7 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 4.0 | 1.7 | ppbv | | ND | 13 | 5.3 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 4.0 | 1.4 | ppbv | | ND | 21 | 7.2 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.80 | 0.80 | ppbv | | ND | 5.0 | 5.0 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 4.0 | 2.2 | ppbv | | ND | 14 | 7.6 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 4.0 | 1.1 | ppbv | | ND | 16 | 4.5 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | 7.1 | 0.80 | 1.2 | ppbv | | 28 | 3.2 | 4.8 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 2.0 | 1.9 | ppbv | | ND | 15 | 15 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 4.0 | 1.4 | ppbv | | ND | 16 | 5.7 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 4.0 | 1.2 | ppbv | | ND | 18 | 5.5 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 4.0 | 2.3 | ppbv | | ND | 14 | 8.3 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | ND | 4.0 | 0.64 | ppbv | | ND | 20 | 3.2 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 2.0 | 1.0 | ppbv | | ND | 17 | 8.5 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | 18.0 | 4.0 | 1.4 | ppbv | | 71.4 | 16 | 5.6 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | 1310 [a] | 4.2 | 8.0 | ppbv | | 5190 [a] | 17 | 32 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 4.0 | 1.2 | ppbv | | ND | 18 | 5.4 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 2.0 | 0.80 | ppbv | | ND | 12 | 4.8 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.80 | 3.1 | ppbv | | ND | 4.8 | 19 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 2.0 | 3.8 | ppbv | | ND | 12 | 23 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 4.0 | 2.0 | ppbv | | ND | 18 | 9.1 | ug/m3 |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** EW-3-60C
**Lab Sample ID:** JD52620-3
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A797
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64-17-5 | 46.07 | Ethanol | ND | 10 | 7.9 | ppbv | | ND | 19 | 15 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 4.0 | 1.2 | ppbv | | ND | 17 | 5.2 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 17.1 | 4.0 | 2.1 | ppbv | | 61.5 | 14 | 7.6 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 4.0 | 1.9 | ppbv | | ND | 20 | 9.3 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 2.0 | 0.62 | ppbv | | ND | 15 | 4.8 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 2.0 | 1.0 | ppbv | | ND | 14 | 7.0 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | ND | 4.0 | 1.8 | ppbv | | ND | 16 | 7.4 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 1.8 | 1.2 | ppbv | | ND | 19 | 13 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | ND | 4.0 | 2.2 | ppbv | | ND | 14 | 7.8 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 4.0 | 2.9 | ppbv | | ND | 16 | 12 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | ND | 4.0 | 2.8 | ppbv | | ND | 9.8 | 6.9 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | ND | 4.0 | 1.1 | ppbv | | ND | 14 | 3.8 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | ND | 4.0 | 2.2 | ppbv | | ND | 12 | 6.5 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 4.0 | 1.5 | ppbv | | ND | 16 | 6.1 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 4.0 | 1.6 | ppbv | | ND | 14 | 5.8 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 4.0 | 1.4 | ppbv | | ND | 16 | 5.7 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 10 | 2.8 | ppbv | | ND | 17 | 4.8 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 4.0 | 2.4 | ppbv | | ND | 17 | 10 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 2.0 | 0.74 | ppbv | | ND | 11 | 4.0 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 2.0 | 0.96 | ppbv | | ND | 14 | 6.6 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 2.0 | 0.76 | ppbv | | ND | 11 | 4.1 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 2.0 | 2.4 | ppbv | | ND | 15 | 18 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 4.0 | 1.7 | ppbv | | ND | 20 | 8.4 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 4.0 | 1.6 | ppbv | | ND | 20 | 7.9 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 4.0 | 1.9 | ppbv | | ND | 19 | 8.9 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 4.0 | 1.9 | ppbv | | ND | 12 | 5.8 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 0.73 | 0.80 | 0.28 | ppbv | J | 5.0 | 5.4 | 1.9 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 4.0 | 1.8 | ppbv | | ND | 12 | 5.3 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | ND | 4.0 | 1.1 | ppbv | | ND | 15 | 4.1 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 992 [a] | 4.2 | 2.0 | ppbv | | 5330 [a] | 23 | 11 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | ND | 2.0 | 0.72 | ppbv | | ND | 11 | 4.0 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | 279 | 0.80 | 1.4 | ppbv | | 713 | 2.0 | 3.6 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 4.0 | 2.2 | ppbv | | ND | 14 | 7.7 | ug/m3 |
| | 106.2 | m,p-Xylene | ND | 4.0 | 2.8 | ppbv | | ND | 17 | 12 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 4.0 | 1.5 | ppbv | | ND | 17 | 6.5 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | ND | 4.0 | 1.5 | ppbv | | ND | 17 | 6.5 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 105% | 96% | 65-128% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-3-60C | | |
| **Lab Sample ID:** | JD52620-3 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AIR - Soil Vapor Comp. Summa ID: A797 | **Date Received:** | 09/26/22 |
| **Method:** | TO-15 | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





**Client Sample ID:** EW-4-25B
**Lab Sample ID:** JD52620-4
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A504
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2W61660.D | 1 | 09/29/22 13:47 | TCH | n/a | n/a | V2W2736 |
| Run #2 | | | | | | | |

| | Initial Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | ND | 16 | 12 | ppbv | | ND | 38 | 29 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 16 | 6.7 | ppbv | | ND | 35 | 15 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | ND | 16 | 5.0 | ppbv | | ND | 51 | 16 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 8.0 | 2.4 | ppbv | | ND | 54 | 16 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 3.2 | 5.7 | ppbv | | ND | 33 | 59 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 16 | 5.5 | ppbv | | ND | 62 | 21 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 16 | 4.9 | ppbv | | ND | 70 | 21 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 16 | 10 | ppbv | | ND | 82 | 52 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 16 | 3.6 | ppbv | | ND | 50 | 11 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 16 | 5.9 | ppbv | | ND | 74 | 27 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 16 | 5.4 | ppbv | | ND | 42 | 14 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 16 | 3.0 | ppbv | | ND | 78 | 15 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 16 | 7.2 | ppbv | | ND | 33 | 15 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 16 | 6.6 | ppbv | | ND | 50 | 21 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 16 | 5.8 | ppbv | | ND | 83 | 30 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 3.2 | 3.2 | ppbv | | ND | 20 | 20 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 16 | 8.8 | ppbv | | ND | 55 | 30 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 16 | 4.6 | ppbv | | ND | 65 | 19 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 3.2 | 4.7 | ppbv | | ND | 13 | 19 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 8.0 | 7.8 | ppbv | | ND | 61 | 60 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 16 | 5.6 | ppbv | | ND | 65 | 23 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 16 | 5.0 | ppbv | | ND | 74 | 23 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 16 | 9.4 | ppbv | | ND | 58 | 34 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | ND | 16 | 2.6 | ppbv | | ND | 79 | 13 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 8.0 | 4.2 | ppbv | | ND | 68 | 36 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | 12.2 | 16 | 5.5 | ppbv | J | 48.4 | 63 | 22 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | 1330 | 3.2 | 6.2 | ppbv | | 5270 | 13 | 25 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 16 | 5.0 | ppbv | | ND | 73 | 23 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 8.0 | 3.2 | ppbv | | ND | 48 | 19 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 3.2 | 12 | ppbv | | ND | 19 | 72 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 8.0 | 15 | ppbv | | ND | 48 | 90 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 16 | 8.1 | ppbv | | ND | 73 | 37 | ug/m3 |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** EW-4-25B
**Lab Sample ID:** JD52620-4
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A504
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64-17-5 | 46.07 | Ethanol | ND | 40 | 32 | ppbv | | ND | 75 | 60 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 16 | 4.9 | ppbv | | ND | 69 | 21 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 21.6 | 16 | 8.3 | ppbv | | 77.7 | 58 | 30 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 16 | 7.6 | ppbv | | ND | 79 | 37 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 8.0 | 2.5 | ppbv | | ND | 61 | 19 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 8.0 | 4.0 | ppbv | | ND | 56 | 28 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | ND | 16 | 7.4 | ppbv | | ND | 66 | 30 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 7.2 | 5.0 | ppbv | | ND | 77 | 53 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | ND | 16 | 9.0 | ppbv | | ND | 56 | 32 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 16 | 12 | ppbv | | ND | 65 | 49 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | ND | 16 | 11 | ppbv | | ND | 39 | 27 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | ND | 16 | 4.5 | ppbv | | ND | 56 | 16 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | ND | 16 | 8.8 | ppbv | | ND | 47 | 26 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 16 | 5.8 | ppbv | | ND | 66 | 24 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 16 | 6.4 | ppbv | | ND | 58 | 23 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 16 | 5.6 | ppbv | | ND | 66 | 23 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 40 | 11 | ppbv | | ND | 69 | 19 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 16 | 9.4 | ppbv | | ND | 68 | 40 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 8.0 | 3.0 | ppbv | | ND | 44 | 16 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 8.0 | 3.8 | ppbv | | ND | 55 | 26 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 8.0 | 3.0 | ppbv | | ND | 44 | 16 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 8.0 | 9.7 | ppbv | | ND | 59 | 72 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 16 | 7.0 | ppbv | | ND | 79 | 34 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 16 | 6.4 | ppbv | | ND | 79 | 31 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 16 | 7.6 | ppbv | | ND | 75 | 35 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 16 | 7.4 | ppbv | | ND | 49 | 22 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | ND | 3.2 | 1.1 | ppbv | | ND | 22 | 7.5 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 16 | 7.2 | ppbv | | ND | 47 | 21 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | ND | 16 | 4.6 | ppbv | | ND | 60 | 17 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 3370 | 3.2 | 1.5 | ppbv | | 18100 | 17 | 8.1 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | ND | 8.0 | 2.9 | ppbv | | ND | 45 | 16 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | 10.5 | 3.2 | 5.5 | ppbv | | 26.8 | 8.2 | 14 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 16 | 9.0 | ppbv | | ND | 56 | 32 | ug/m3 |
| | 106.2 | m,p-Xylene | ND | 16 | 11 | ppbv | | ND | 69 | 48 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 16 | 6.2 | ppbv | | ND | 69 | 27 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | ND | 16 | 6.2 | ppbv | | ND | 69 | 27 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 105% | | 65-128% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





**Client Sample ID:** EW-5-25B
**Lab Sample ID:** JD52620-5
**Matrix:** AIR - Soil Vapor Comp. Summa ID: M180
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2W61661.D | 1 | 09/29/22 14:39 | TCH | n/a | n/a | V2W2736 |
| Run #2 | 6W26153.D | 1.23 | 09/30/22 02:34 | TCH | n/a | n/a | V6W1111 |

| | Initial Volume |
|---|---|
| Run #1 | 10.0 ml |
| Run #2 | 5.0 ml |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | ND | 8.0 | 5.8 | ppbv | | ND | 19 | 14 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 8.0 | 3.4 | ppbv | | ND | 18 | 7.5 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | ND | 8.0 | 2.5 | ppbv | | ND | 26 | 8.0 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 4.0 | 1.2 | ppbv | | ND | 27 | 8.0 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 1.6 | 2.8 | ppbv | | ND | 17 | 29 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 8.0 | 2.8 | ppbv | | ND | 31 | 11 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 8.0 | 2.4 | ppbv | | ND | 35 | 10 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 8.0 | 5.0 | ppbv | | ND | 41 | 26 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 8.0 | 1.8 | ppbv | | ND | 25 | 5.6 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 8.0 | 3.0 | ppbv | | ND | 37 | 14 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 8.0 | 2.7 | ppbv | | ND | 21 | 7.1 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 8.0 | 1.5 | ppbv | | ND | 39 | 7.3 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 8.0 | 3.6 | ppbv | | ND | 17 | 7.4 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 8.0 | 3.3 | ppbv | | ND | 25 | 10 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 8.0 | 2.9 | ppbv | | ND | 41 | 15 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 1.6 | 1.6 | ppbv | | ND | 10 | 10 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 8.0 | 4.4 | ppbv | | ND | 28 | 15 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 8.0 | 2.3 | ppbv | | ND | 32 | 9.3 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | 10.2 | 1.6 | 2.4 | ppbv | | 40.4 | 6.3 | 9.5 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 4.0 | 3.9 | ppbv | | ND | 31 | 30 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 8.0 | 2.8 | ppbv | | ND | 32 | 11 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 8.0 | 2.5 | ppbv | | ND | 37 | 12 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 8.0 | 4.7 | ppbv | | ND | 29 | 17 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | ND | 8.0 | 1.3 | ppbv | | ND | 40 | 6.4 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 4.0 | 2.1 | ppbv | | ND | 34 | 18 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | 21.7 | 8.0 | 2.8 | ppbv | | 86.0 | 32 | 11 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | 1490 [a] | 3.9 | 7.6 | ppbv | | 5910 [a] | 15 | 30 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 8.0 | 2.5 | ppbv | | ND | 36 | 11 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 4.0 | 1.6 | ppbv | | ND | 24 | 9.6 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 1.6 | 6.2 | ppbv | | ND | 9.6 | 37 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 4.0 | 7.6 | ppbv | | ND | 24 | 46 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 8.0 | 4.0 | ppbv | | ND | 36 | 18 | ug/m3 |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** EW-5-25B
**Lab Sample ID:** JD52620-5
**Matrix:** AIR - Soil Vapor Comp. Summa ID: M180
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64-17-5 | 46.07 | Ethanol | ND | 20 | 16 | ppbv | | ND | 38 | 30 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 8.0 | 2.4 | ppbv | | ND | 35 | 10 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | ND | 8.0 | 4.2 | ppbv | | ND | 29 | 15 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 8.0 | 3.8 | ppbv | | ND | 39 | 19 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 4.0 | 1.2 | ppbv | | ND | 31 | 9.2 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 4.0 | 2.0 | ppbv | | ND | 28 | 14 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | ND | 8.0 | 3.7 | ppbv | | ND | 33 | 15 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 3.6 | 2.5 | ppbv | | ND | 38 | 27 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | ND | 8.0 | 4.5 | ppbv | | ND | 28 | 16 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 8.0 | 5.8 | ppbv | | ND | 33 | 24 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | ND | 8.0 | 5.6 | ppbv | | ND | 20 | 14 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | ND | 8.0 | 2.2 | ppbv | | ND | 28 | 7.6 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | ND | 8.0 | 4.4 | ppbv | | ND | 24 | 13 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 8.0 | 2.9 | ppbv | | ND | 33 | 12 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 8.0 | 3.2 | ppbv | | ND | 29 | 12 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 8.0 | 2.8 | ppbv | | ND | 33 | 11 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 20 | 5.7 | ppbv | | ND | 34 | 9.8 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 8.0 | 4.7 | ppbv | | ND | 34 | 20 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 4.0 | 1.5 | ppbv | | ND | 22 | 8.2 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 4.0 | 1.9 | ppbv | | ND | 27 | 13 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 4.0 | 1.5 | ppbv | | ND | 22 | 8.2 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 4.0 | 4.8 | ppbv | | ND | 30 | 36 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 8.0 | 3.5 | ppbv | | ND | 39 | 17 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 8.0 | 3.2 | ppbv | | ND | 39 | 16 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 8.0 | 3.8 | ppbv | | ND | 37 | 18 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 8.0 | 3.7 | ppbv | | ND | 24 | 11 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | ND | 1.6 | 0.56 | ppbv | | ND | 11 | 3.8 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 8.0 | 3.6 | ppbv | | ND | 24 | 11 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | ND | 8.0 | 2.3 | ppbv | | ND | 30 | 8.7 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 1390 | 1.6 | 0.76 | ppbv | | 7470 | 8.6 | 4.1 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | ND | 4.0 | 1.4 | ppbv | | ND | 22 | 7.9 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | 264 | 1.6 | 2.8 | ppbv | | 675 | 4.1 | 7.2 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 8.0 | 4.5 | ppbv | | ND | 28 | 16 | ug/m3 |
| | 106.2 | m,p-Xylene | ND | 8.0 | 5.6 | ppbv | | ND | 35 | 24 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 8.0 | 3.1 | ppbv | | ND | 35 | 13 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | ND | 8.0 | 3.1 | ppbv | | ND | 35 | 13 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 105% | 96% | 65-128% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-5-25B | | |
| **Lab Sample ID:** | JD52620-5 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AIR - Soil Vapor Comp. Summa ID: M180 | **Date Received:** | 09/26/22 |
| **Method:** | TO-15 | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





**Client Sample ID:** EW-6-60C
**Lab Sample ID:** JD52620-6
**Matrix:** AIR - Soil Vapor Comp. Summa ID: M430
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2W61662.D | 1 | 09/29/22 15:12 | TCH | n/a | n/a | V2W2736 |
| Run #2 | 6W26154.D | 1.15 | 09/30/22 03:18 | TCH | n/a | n/a | V6W1111 |

| | Initial Volume |
|---|---|
| Run #1 | 20.0 ml |
| Run #2 | 5.0 ml |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | ND | 4.0 | 2.9 | ppbv | | ND | 9.5 | 6.9 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 4.0 | 1.7 | ppbv | | ND | 8.8 | 3.8 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | ND | 4.0 | 1.2 | ppbv | | ND | 13 | 3.8 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 2.0 | 0.60 | ppbv | | ND | 13 | 4.0 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.80 | 1.4 | ppbv | | ND | 8.3 | 14 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 4.0 | 1.4 | ppbv | | ND | 16 | 5.4 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 4.0 | 1.2 | ppbv | | ND | 17 | 5.2 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 4.0 | 2.5 | ppbv | | ND | 21 | 13 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 4.0 | 0.90 | ppbv | | ND | 12 | 2.8 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 4.0 | 1.5 | ppbv | | ND | 18 | 6.9 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 4.0 | 1.4 | ppbv | | ND | 11 | 3.7 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 4.0 | 0.74 | ppbv | | ND | 20 | 3.6 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 4.0 | 1.8 | ppbv | | ND | 8.3 | 3.7 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 4.0 | 1.7 | ppbv | | ND | 13 | 5.3 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 4.0 | 1.4 | ppbv | | ND | 21 | 7.2 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.80 | 0.80 | ppbv | | ND | 5.0 | 5.0 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 4.0 | 2.2 | ppbv | | ND | 14 | 7.6 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 4.0 | 1.1 | ppbv | | ND | 16 | 4.5 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | 6.4 | 0.80 | 1.2 | ppbv | | 25 | 3.2 | 4.8 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 2.0 | 1.9 | ppbv | | ND | 15 | 15 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 4.0 | 1.4 | ppbv | | ND | 16 | 5.7 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 4.0 | 1.2 | ppbv | | ND | 18 | 5.5 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 4.0 | 2.3 | ppbv | | ND | 14 | 8.3 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | ND | 4.0 | 0.64 | ppbv | | ND | 20 | 3.2 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 2.0 | 1.0 | ppbv | | ND | 17 | 8.5 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | 17.8 | 4.0 | 1.4 | ppbv | | 70.6 | 16 | 5.6 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | 2310 [a] | 3.7 | 7.1 | ppbv | | 9160 [a] | 15 | 28 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 4.0 | 1.2 | ppbv | | ND | 18 | 5.4 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 2.0 | 0.80 | ppbv | | ND | 12 | 4.8 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.80 | 3.1 | ppbv | | ND | 4.8 | 19 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 2.0 | 3.8 | ppbv | | ND | 12 | 23 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 4.0 | 2.0 | ppbv | | ND | 18 | 9.1 | ug/m3 |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** EW-6-60C
**Lab Sample ID:** JD52620-6
**Matrix:** AIR - Soil Vapor Comp. Summa ID: M430
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64-17-5 | 46.07 | Ethanol | ND | 10 | 7.9 | ppbv | | ND | 19 | 15 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 4.0 | 1.2 | ppbv | | ND | 17 | 5.2 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 24.1 | 4.0 | 2.1 | ppbv | | 86.7 | 14 | 7.6 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 4.0 | 1.9 | ppbv | | ND | 20 | 9.3 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 2.0 | 0.62 | ppbv | | ND | 15 | 4.8 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 2.0 | 1.0 | ppbv | | ND | 14 | 7.0 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | ND | 4.0 | 1.8 | ppbv | | ND | 16 | 7.4 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 1.8 | 1.2 | ppbv | | ND | 19 | 13 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | ND | 4.0 | 2.2 | ppbv | | ND | 14 | 7.8 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 4.0 | 2.9 | ppbv | | ND | 16 | 12 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | ND | 4.0 | 2.8 | ppbv | | ND | 9.8 | 6.9 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | ND | 4.0 | 1.1 | ppbv | | ND | 14 | 3.8 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | ND | 4.0 | 2.2 | ppbv | | ND | 12 | 6.5 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 4.0 | 1.5 | ppbv | | ND | 16 | 6.1 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 4.0 | 1.6 | ppbv | | ND | 14 | 5.8 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 4.0 | 1.4 | ppbv | | ND | 16 | 5.7 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 10 | 2.8 | ppbv | | ND | 17 | 4.8 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 4.0 | 2.4 | ppbv | | ND | 17 | 10 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 2.0 | 0.74 | ppbv | | ND | 11 | 4.0 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 2.0 | 0.96 | ppbv | | ND | 14 | 6.6 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 2.0 | 0.76 | ppbv | | ND | 11 | 4.1 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 2.0 | 2.4 | ppbv | | ND | 15 | 18 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 4.0 | 1.7 | ppbv | | ND | 20 | 8.4 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 4.0 | 1.6 | ppbv | | ND | 20 | 7.9 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 4.0 | 1.9 | ppbv | | ND | 19 | 8.9 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 4.0 | 1.9 | ppbv | | ND | 12 | 5.8 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | ND | 0.80 | 0.28 | ppbv | | ND | 5.4 | 1.9 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 4.0 | 1.8 | ppbv | | ND | 12 | 5.3 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | ND | 4.0 | 1.1 | ppbv | | ND | 15 | 4.1 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 817 | 0.80 | 0.38 | ppbv | | 4390 | 4.3 | 2.0 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | ND | 2.0 | 0.72 | ppbv | | ND | 11 | 4.0 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | 183 | 0.80 | 1.4 | ppbv | | 468 | 2.0 | 3.6 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 4.0 | 2.2 | ppbv | | ND | 14 | 7.7 | ug/m3 |
| | 106.2 | m,p-Xylene | ND | 4.0 | 2.8 | ppbv | | ND | 17 | 12 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 4.0 | 1.5 | ppbv | | ND | 17 | 6.5 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | ND | 4.0 | 1.5 | ppbv | | ND | 17 | 6.5 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 103% | 92% | 65-128% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-6-60C | | |
| **Lab Sample ID:** | JD52620-6 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AIR - Soil Vapor Comp. Summa ID: M430 | **Date Received:** | 09/26/22 |
| **Method:** | TO-15 | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





**Client Sample ID:** EW-7-25B
**Lab Sample ID:** JD52620-7
**Matrix:** AIR - Soil Vapor Comp. Summa ID: M462
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2W61663.D | 1 | 09/29/22 15:44 | TCH | n/a | n/a | V2W2736 |
| Run #2 | 6W26155.D | 1 | 09/30/22 04:00 | TCH | n/a | n/a | V6W1111 |

| | Initial Volume |
|---|---|
| Run #1 | 100 ml |
| Run #2 | 50.0 ml |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 2.8 | 0.80 | 0.58 | ppbv | | 6.7 | 1.9 | 1.4 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.80 | 0.34 | ppbv | | ND | 1.8 | 0.75 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | ND | 0.80 | 0.25 | ppbv | | ND | 2.6 | 0.80 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.40 | 0.12 | ppbv | | ND | 2.7 | 0.80 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.16 | 0.28 | ppbv | | ND | 1.7 | 2.9 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.1 | 1.1 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.80 | 0.50 | ppbv | | ND | 4.1 | 2.6 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 0.80 | 0.18 | ppbv | | ND | 2.5 | 0.56 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.80 | 0.30 | ppbv | | ND | 3.7 | 1.4 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.80 | 0.27 | ppbv | | ND | 2.1 | 0.71 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 0.80 | 0.15 | ppbv | | ND | 3.9 | 0.73 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 0.80 | 0.36 | ppbv | | ND | 1.7 | 0.74 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.80 | 0.33 | ppbv | | ND | 2.5 | 1.0 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.80 | 0.29 | ppbv | | ND | 4.1 | 1.5 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.16 | 0.16 | ppbv | | ND | 1.0 | 1.0 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 0.80 | 0.44 | ppbv | | ND | 2.8 | 1.5 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.80 | 0.23 | ppbv | | ND | 3.2 | 0.93 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | 1.0 | 0.16 | 0.24 | ppbv | | 4.0 | 0.63 | 0.95 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.40 | 0.39 | ppbv | | ND | 3.1 | 3.0 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | 1.1 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.80 | 0.25 | ppbv | | ND | 3.7 | 1.2 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.80 | 0.47 | ppbv | | ND | 2.9 | 1.7 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.42 | 0.80 | 0.13 | ppbv | J | 2.1 | 4.0 | 0.64 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.40 | 0.21 | ppbv | | ND | 3.4 | 1.8 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | 3.6 | 0.80 | 0.28 | ppbv | | 14 | 3.2 | 1.1 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | 227 [a] | 0.32 | 0.62 | ppbv | | 900 [a] | 1.3 | 2.5 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.80 | 0.25 | ppbv | | ND | 3.6 | 1.1 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.40 | 0.16 | ppbv | | ND | 2.4 | 0.96 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.16 | 0.62 | ppbv | | ND | 0.96 | 3.7 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.40 | 0.76 | ppbv | | ND | 2.4 | 4.6 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.80 | 0.40 | ppbv | | ND | 3.6 | 1.8 | ug/m3 |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** EW-7-25B
**Lab Sample ID:** JD52620-7
**Matrix:** AIR - Soil Vapor Comp. Summa ID: M462
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64-17-5 | 46.07 | Ethanol | 3.1 | 2.0 | 1.6 | ppbv | | 5.8 | 3.8 | 3.0 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 45.8 | 0.80 | 0.42 | ppbv | | 165 | 2.9 | 1.5 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 0.80 | 0.38 | ppbv | | ND | 3.9 | 1.9 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.40 | 0.12 | ppbv | | ND | 3.1 | 0.92 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.40 | 0.20 | ppbv | | ND | 2.8 | 1.4 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | ND | 0.80 | 0.37 | ppbv | | ND | 3.3 | 1.5 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.36 | 0.25 | ppbv | | ND | 3.8 | 2.7 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | 1.6 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.80 | 0.58 | ppbv | | ND | 3.3 | 2.4 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 0.87 | 0.80 | 0.56 | ppbv | | 2.1 | 2.0 | 1.4 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | 0.82 | 0.80 | 0.22 | ppbv | | 2.8 | 2.8 | 0.76 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | ND | 0.80 | 0.44 | ppbv | | ND | 2.4 | 1.3 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.80 | 0.29 | ppbv | | ND | 3.3 | 1.2 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.80 | 0.32 | ppbv | | ND | 2.9 | 1.2 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.80 | 0.28 | ppbv | | ND | 3.3 | 1.1 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 2.0 | 0.57 | ppbv | | ND | 3.4 | 0.98 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 0.80 | 0.47 | ppbv | | ND | 3.4 | 2.0 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.40 | 0.19 | ppbv | | ND | 2.7 | 1.3 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.40 | 0.48 | ppbv | | ND | 3.0 | 3.6 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 0.80 | 0.35 | ppbv | | ND | 3.9 | 1.7 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 0.80 | 0.32 | ppbv | | ND | 3.9 | 1.6 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 0.80 | 0.38 | ppbv | | ND | 3.7 | 1.8 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 0.80 | 0.37 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | 0.15 | 0.16 | 0.056 | ppbv | J | 1.0 | 1.1 | 0.38 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.80 | 0.36 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 1.1 | 0.80 | 0.23 | ppbv | | 4.1 | 3.0 | 0.87 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 14.4 | 0.16 | 0.076 | ppbv | | 77.4 | 0.86 | 0.41 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | 0.39 | 0.40 | 0.14 | ppbv | J | 2.2 | 2.2 | 0.79 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | 89.4 | 0.16 | 0.28 | ppbv | | 229 | 0.41 | 0.72 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | 1.6 | ug/m3 |
| | 106.2 | m,p-Xylene | ND | 0.80 | 0.56 | ppbv | | ND | 3.5 | 2.4 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 106% | 96% | 65-128% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-7-25B | | |
| **Lab Sample ID:** | JD52620-7 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AIR - Soil Vapor Comp. Summa ID: M462 | **Date Received:** | 09/26/22 |
| **Method:** | TO-15 | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





**Client Sample ID:** EW-8-62C
**Lab Sample ID:** JD52620-8
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A1152
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2W61664.D | 1 | 09/29/22 16:16 | TCH | n/a | n/a | V2W2736 |
| Run #2 | 6W26156.D | 1 | 09/30/22 04:43 | TCH | n/a | n/a | V6W1111 |

| | Initial Volume |
|---|---|
| Run #1 | 100 ml |
| Run #2 | 20.0 ml |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 4.3 | 0.80 | 0.58 | ppbv | | 10 | 1.9 | 1.4 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.80 | 0.34 | ppbv | | ND | 1.8 | 0.75 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | ND | 0.80 | 0.25 | ppbv | | ND | 2.6 | 0.80 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.40 | 0.12 | ppbv | | ND | 2.7 | 0.80 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.16 | 0.28 | ppbv | | ND | 1.7 | 2.9 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.1 | 1.1 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.80 | 0.50 | ppbv | | ND | 4.1 | 2.6 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 0.80 | 0.18 | ppbv | | ND | 2.5 | 0.56 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.80 | 0.30 | ppbv | | ND | 3.7 | 1.4 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.80 | 0.27 | ppbv | | ND | 2.1 | 0.71 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 0.80 | 0.15 | ppbv | | ND | 3.9 | 0.73 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 0.80 | 0.36 | ppbv | | ND | 1.7 | 0.74 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.80 | 0.33 | ppbv | | ND | 2.5 | 1.0 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.80 | 0.29 | ppbv | | ND | 4.1 | 1.5 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.16 | 0.16 | ppbv | | ND | 1.0 | 1.0 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 0.80 | 0.44 | ppbv | | ND | 2.8 | 1.5 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.80 | 0.23 | ppbv | | ND | 3.2 | 0.93 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | 0.66 | 0.16 | 0.24 | ppbv | | 2.6 | 0.63 | 0.95 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.40 | 0.39 | ppbv | | ND | 3.1 | 3.0 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | 1.1 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.80 | 0.25 | ppbv | | ND | 3.7 | 1.2 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.80 | 0.47 | ppbv | | ND | 2.9 | 1.7 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.39 | 0.80 | 0.13 | ppbv | J | 1.9 | 4.0 | 0.64 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.40 | 0.21 | ppbv | | ND | 3.4 | 1.8 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | 2.3 | 0.80 | 0.28 | ppbv | | 9.1 | 3.2 | 1.1 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | 339 [a] | 0.80 | 1.5 | ppbv | | 1340 [a] | 3.2 | 5.9 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.80 | 0.25 | ppbv | | ND | 3.6 | 1.1 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.40 | 0.16 | ppbv | | ND | 2.4 | 0.96 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.16 | 0.62 | ppbv | | ND | 0.96 | 3.7 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.40 | 0.76 | ppbv | | ND | 2.4 | 4.6 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.80 | 0.40 | ppbv | | ND | 3.6 | 1.8 | ug/m3 |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** EW-8-62C
**Lab Sample ID:** JD52620-8
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A1152
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64-17-5 | 46.07 | Ethanol | 3.1 | 2.0 | 1.6 | ppbv | | 5.8 | 3.8 | 3.0 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 67.4 | 0.80 | 0.42 | ppbv | | 243 | 2.9 | 1.5 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 0.80 | 0.38 | ppbv | | ND | 3.9 | 1.9 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.40 | 0.12 | ppbv | | ND | 3.1 | 0.92 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.40 | 0.20 | ppbv | | ND | 2.8 | 1.4 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | ND | 0.80 | 0.37 | ppbv | | ND | 3.3 | 1.5 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.36 | 0.25 | ppbv | | ND | 3.8 | 2.7 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | 1.6 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.80 | 0.58 | ppbv | | ND | 3.3 | 2.4 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | 0.86 | 0.80 | 0.56 | ppbv | | 2.1 | 2.0 | 1.4 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | ND | 0.80 | 0.22 | ppbv | | ND | 2.8 | 0.76 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 0.57 | 0.80 | 0.44 | ppbv | J | 1.7 | 2.4 | 1.3 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.80 | 0.29 | ppbv | | ND | 3.3 | 1.2 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.80 | 0.32 | ppbv | | ND | 2.9 | 1.2 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.80 | 0.28 | ppbv | | ND | 3.3 | 1.1 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 2.0 | 0.57 | ppbv | | ND | 3.4 | 0.98 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 0.80 | 0.47 | ppbv | | ND | 3.4 | 2.0 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.40 | 0.19 | ppbv | | ND | 2.7 | 1.3 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.40 | 0.48 | ppbv | | ND | 3.0 | 3.6 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 0.80 | 0.35 | ppbv | | ND | 3.9 | 1.7 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 0.80 | 0.32 | ppbv | | ND | 3.9 | 1.6 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 0.80 | 0.38 | ppbv | | ND | 3.7 | 1.8 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 0.80 | 0.37 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | ND | 0.16 | 0.056 | ppbv | | ND | 1.1 | 0.38 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.80 | 0.36 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 1.7 | 0.80 | 0.23 | ppbv | | 6.4 | 3.0 | 0.87 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 85.7 | 0.16 | 0.076 | ppbv | | 461 | 0.86 | 0.41 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | ND | 0.40 | 0.14 | ppbv | | ND | 2.2 | 0.79 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | 22.1 | 0.16 | 0.28 | ppbv | | 56.5 | 0.41 | 0.72 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | 0.83 | 0.80 | 0.45 | ppbv | | 2.9 | 2.8 | 1.6 | ug/m3 |
| | 106.2 | m,p-Xylene | ND | 0.80 | 0.56 | ppbv | | ND | 3.5 | 2.4 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 105% | 98% | 65-128% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-8-62C | | |
| **Lab Sample ID:** | JD52620-8 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AIR - Soil Vapor Comp. Summa ID: A1152 | **Date Received:** | 09/26/22 |
| **Method:** | TO-15 | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





**Client Sample ID:** EW-9R-72C
**Lab Sample ID:** JD52620-9
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A534
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2W61666.D | 1 | 09/29/22 17:19 | TCH | n/a | n/a | V2W2736 |
| Run #2 | 2W61693.D | 1.13 | 09/30/22 13:15 | TCH | n/a | n/a | V2W2737 |

| | Initial Volume |
|---|---|
| Run #1 | 40.0 ml |
| Run #2 | 5.0 ml |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 7.0 | 2.0 | 1.5 | ppbv | | 17 | 4.8 | 3.6 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 2.0 | 0.84 | ppbv | | ND | 4.4 | 1.9 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | ND | 2.0 | 0.62 | ppbv | | ND | 6.4 | 2.0 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 1.0 | 0.30 | ppbv | | ND | 6.7 | 2.0 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.40 | 0.71 | ppbv | | ND | 4.1 | 7.3 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 2.0 | 0.69 | ppbv | | ND | 7.8 | 2.7 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 2.0 | 0.61 | ppbv | | ND | 8.7 | 2.7 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 2.0 | 1.3 | ppbv | | ND | 10 | 6.7 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 2.0 | 0.45 | ppbv | | ND | 6.2 | 1.4 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 2.0 | 0.74 | ppbv | | ND | 9.2 | 3.4 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 2.0 | 0.68 | ppbv | | ND | 5.3 | 1.8 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 2.0 | 0.37 | ppbv | | ND | 9.8 | 1.8 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 2.0 | 0.90 | ppbv | | ND | 4.1 | 1.9 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 2.0 | 0.83 | ppbv | | ND | 6.3 | 2.6 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 2.0 | 0.72 | ppbv | | ND | 10 | 3.7 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.40 | 0.40 | ppbv | | ND | 2.5 | 2.5 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 2.0 | 1.1 | ppbv | | ND | 6.9 | 3.8 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 2.0 | 0.57 | ppbv | | ND | 8.1 | 2.3 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | 5.6 | 0.40 | 0.59 | ppbv | | 22 | 1.6 | 2.3 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 1.0 | 0.97 | ppbv | | ND | 7.7 | 7.5 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 2.0 | 0.70 | ppbv | | ND | 8.1 | 2.8 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 2.0 | 0.62 | ppbv | | ND | 9.2 | 2.9 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 2.0 | 1.2 | ppbv | | ND | 7.2 | 4.3 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | ND | 2.0 | 0.32 | ppbv | | ND | 9.9 | 1.6 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 1.0 | 0.52 | ppbv | | ND | 8.5 | 4.4 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | 15.0 | 2.0 | 0.69 | ppbv | | 59.5 | 7.9 | 2.7 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | 1520 [a] | 3.6 | 7.0 | ppbv | | 6030 [a] | 14 | 28 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 2.0 | 0.62 | ppbv | | ND | 9.1 | 2.8 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 1.0 | 0.40 | ppbv | | ND | 6.0 | 2.4 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.40 | 1.5 | ppbv | | ND | 2.4 | 9.0 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 1.0 | 1.9 | ppbv | | ND | 6.0 | 11 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 2.0 | 1.0 | ppbv | | ND | 9.1 | 4.5 | ug/m3 |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** EW-9R-72C
**Lab Sample ID:** JD52620-9
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A534
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64-17-5 | 46.07 | Ethanol | ND | 5.0 | 3.9 | ppbv | | ND | 9.4 | 7.3 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 2.0 | 0.61 | ppbv | | ND | 8.7 | 2.6 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 6.9 | 2.0 | 1.0 | ppbv | | 25 | 7.2 | 3.6 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 2.0 | 0.95 | ppbv | | ND | 9.8 | 4.7 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 1.0 | 0.31 | ppbv | | ND | 7.7 | 2.4 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 1.0 | 0.50 | ppbv | | ND | 7.0 | 3.5 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | ND | 2.0 | 0.92 | ppbv | | ND | 8.2 | 3.8 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.90 | 0.62 | ppbv | | ND | 9.6 | 6.6 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | ND | 2.0 | 1.1 | ppbv | | ND | 7.0 | 3.9 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 2.0 | 1.5 | ppbv | | ND | 8.2 | 6.1 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | ND | 2.0 | 1.4 | ppbv | | ND | 4.9 | 3.4 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | ND | 2.0 | 0.56 | ppbv | | ND | 6.9 | 1.9 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 2.1 | 2.0 | 1.1 | ppbv | | 6.2 | 5.9 | 3.2 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 2.0 | 0.73 | ppbv | | ND | 8.2 | 3.0 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 2.0 | 0.80 | ppbv | | ND | 7.2 | 2.9 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 2.0 | 0.70 | ppbv | | ND | 8.2 | 2.9 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 5.0 | 1.4 | ppbv | | ND | 8.6 | 2.4 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 2.0 | 1.2 | ppbv | | ND | 8.5 | 5.1 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 1.0 | 0.37 | ppbv | | ND | 5.5 | 2.0 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.48 | ppbv | | ND | 6.9 | 3.3 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 1.0 | 0.38 | ppbv | | ND | 5.5 | 2.1 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 1.0 | 1.2 | ppbv | | ND | 7.4 | 8.9 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 2.0 | 0.87 | ppbv | | ND | 9.8 | 4.3 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 2.0 | 0.80 | ppbv | | ND | 9.8 | 3.9 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 2.0 | 0.95 | ppbv | | ND | 9.3 | 4.4 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 2.0 | 0.93 | ppbv | | ND | 6.1 | 2.8 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | ND | 0.40 | 0.14 | ppbv | | ND | 2.7 | 0.95 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | 3.1 | 2.0 | 0.90 | ppbv | | 9.1 | 5.9 | 2.7 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | ND | 2.0 | 0.57 | ppbv | | ND | 7.5 | 2.1 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 477 | 0.40 | 0.19 | ppbv | | 2560 | 2.1 | 1.0 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | ND | 1.0 | 0.36 | ppbv | | ND | 5.6 | 2.0 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | 483 [a] | 3.6 | 6.2 | ppbv | | 1230 [a] | 9.2 | 16 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 2.0 | 1.1 | ppbv | | ND | 7.0 | 3.9 | ug/m3 |
| | 106.2 | m,p-Xylene | ND | 2.0 | 1.4 | ppbv | | ND | 8.7 | 6.1 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 2.0 | 0.77 | ppbv | | ND | 8.7 | 3.3 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | ND | 2.0 | 0.77 | ppbv | | ND | 8.7 | 3.3 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 105% | 107% | 65-128% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-9R-72C | | |
| **Lab Sample ID:** | JD52620-9 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AIR - Soil Vapor Comp. Summa ID: A534 | **Date Received:** | 09/26/22 |
| **Method:** | TO-15 | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





**Client Sample ID:** EW-10-25B
**Lab Sample ID:** JD52620-10
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A1105
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2W61667.D | 1 | 09/29/22 17:52 | TCH | n/a | n/a | V2W2736 |
| Run #2 | | | | | | | |

| | Initial Volume |
|---|---|
| Run #1 | 20.0 ml |
| Run #2 | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 5.7 | 4.0 | 2.9 | ppbv | | 14 | 9.5 | 6.9 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 4.0 | 1.7 | ppbv | | ND | 8.8 | 3.8 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | ND | 4.0 | 1.2 | ppbv | | ND | 13 | 3.8 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 2.0 | 0.60 | ppbv | | ND | 13 | 4.0 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.80 | 1.4 | ppbv | | ND | 8.3 | 14 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 4.0 | 1.4 | ppbv | | ND | 16 | 5.4 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 4.0 | 1.2 | ppbv | | ND | 17 | 5.2 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 4.0 | 2.5 | ppbv | | ND | 21 | 13 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 4.0 | 0.90 | ppbv | | ND | 12 | 2.8 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 4.0 | 1.5 | ppbv | | ND | 18 | 6.9 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 4.0 | 1.4 | ppbv | | ND | 11 | 3.7 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 4.0 | 0.74 | ppbv | | ND | 20 | 3.6 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 4.0 | 1.8 | ppbv | | ND | 8.3 | 3.7 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 4.0 | 1.7 | ppbv | | ND | 13 | 5.3 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 4.0 | 1.4 | ppbv | | ND | 21 | 7.2 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.80 | 0.80 | ppbv | | ND | 5.0 | 5.0 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 4.0 | 2.2 | ppbv | | ND | 14 | 7.6 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 4.0 | 1.1 | ppbv | | ND | 16 | 4.5 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | 2.9 | 0.80 | 1.2 | ppbv | | 11 | 3.2 | 4.8 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 2.0 | 1.9 | ppbv | | ND | 15 | 15 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 4.0 | 1.4 | ppbv | | ND | 16 | 5.7 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 4.0 | 1.2 | ppbv | | ND | 18 | 5.5 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 4.0 | 2.3 | ppbv | | ND | 14 | 8.3 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | ND | 4.0 | 0.64 | ppbv | | ND | 20 | 3.2 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 2.0 | 1.0 | ppbv | | ND | 17 | 8.5 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | 5.3 | 4.0 | 1.4 | ppbv | | 21 | 16 | 5.6 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | 349 | 0.80 | 1.5 | ppbv | | 1380 | 3.2 | 5.9 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 4.0 | 1.2 | ppbv | | ND | 18 | 5.4 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 2.0 | 0.80 | ppbv | | ND | 12 | 4.8 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.80 | 3.1 | ppbv | | ND | 4.8 | 19 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 2.0 | 3.8 | ppbv | | ND | 12 | 23 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 4.0 | 2.0 | ppbv | | ND | 18 | 9.1 | ug/m3 |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** EW-10-25B
**Lab Sample ID:** JD52620-10
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A1105
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64-17-5 | 46.07 | Ethanol | ND | 10 | 7.9 | ppbv | | ND | 19 | 15 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 4.0 | 1.2 | ppbv | | ND | 17 | 5.2 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 13.3 | 4.0 | 2.1 | ppbv | | 47.9 | 14 | 7.6 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 4.0 | 1.9 | ppbv | | ND | 20 | 9.3 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 2.0 | 0.62 | ppbv | | ND | 15 | 4.8 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 2.0 | 1.0 | ppbv | | ND | 14 | 7.0 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | ND | 4.0 | 1.8 | ppbv | | ND | 16 | 7.4 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 1.8 | 1.2 | ppbv | | ND | 19 | 13 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | ND | 4.0 | 2.2 | ppbv | | ND | 14 | 7.8 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 4.0 | 2.9 | ppbv | | ND | 16 | 12 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | ND | 4.0 | 2.8 | ppbv | | ND | 9.8 | 6.9 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | ND | 4.0 | 1.1 | ppbv | | ND | 14 | 3.8 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | ND | 4.0 | 2.2 | ppbv | | ND | 12 | 6.5 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 4.0 | 1.5 | ppbv | | ND | 16 | 6.1 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 4.0 | 1.6 | ppbv | | ND | 14 | 5.8 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 4.0 | 1.4 | ppbv | | ND | 16 | 5.7 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 10 | 2.8 | ppbv | | ND | 17 | 4.8 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 4.0 | 2.4 | ppbv | | ND | 17 | 10 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 2.0 | 0.74 | ppbv | | ND | 11 | 4.0 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 2.0 | 0.96 | ppbv | | ND | 14 | 6.6 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 2.0 | 0.76 | ppbv | | ND | 11 | 4.1 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 2.0 | 2.4 | ppbv | | ND | 15 | 18 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 4.0 | 1.7 | ppbv | | ND | 20 | 8.4 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 4.0 | 1.6 | ppbv | | ND | 20 | 7.9 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 4.0 | 1.9 | ppbv | | ND | 19 | 8.9 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 4.0 | 1.9 | ppbv | | ND | 12 | 5.8 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | ND | 0.80 | 0.28 | ppbv | | ND | 5.4 | 1.9 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 4.0 | 1.8 | ppbv | | ND | 12 | 5.3 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | ND | 4.0 | 1.1 | ppbv | | ND | 15 | 4.1 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 604 | 0.80 | 0.38 | ppbv | | 3250 | 4.3 | 2.0 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | ND | 2.0 | 0.72 | ppbv | | ND | 11 | 4.0 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | 112 | 0.80 | 1.4 | ppbv | | 286 | 2.0 | 3.6 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 4.0 | 2.2 | ppbv | | ND | 14 | 7.7 | ug/m3 |
| | 106.2 | m,p-Xylene | ND | 4.0 | 2.8 | ppbv | | ND | 17 | 12 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 4.0 | 1.5 | ppbv | | ND | 17 | 6.5 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | ND | 4.0 | 1.5 | ppbv | | ND | 17 | 6.5 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 104% | | 65-128% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-11-43C | | |
| **Lab Sample ID:** | JD52620-11 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AIR - Soil Vapor Comp. Summa ID: A791,M230 | **Date Received:** | 09/26/22 |
| **Method:** | TO-15 | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2W61692.D | 1120 | 09/30/22 12:43 | TCH | n/a | n/a | V2W2737 |
| Run #2 | | | | | | | |

| | Initial Volume |
|---|---|
| Run #1 | 400 ml |
| Run #2 | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | ND | 220 | 160 | ppbv | | ND | 520 | 380 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 220 | 94 | ppbv | | ND | 490 | 210 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | ND | 220 | 69 | ppbv | | ND | 700 | 220 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 110 | 34 | ppbv | | ND | 740 | 230 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 45 | 80 | ppbv | | ND | 470 | 830 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 220 | 77 | ppbv | | ND | 850 | 300 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 220 | 68 | ppbv | | ND | 960 | 300 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 220 | 140 | ppbv | | ND | 1100 | 720 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 220 | 50 | ppbv | | ND | 690 | 160 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 220 | 83 | ppbv | | ND | 1000 | 380 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 220 | 76 | ppbv | | ND | 580 | 200 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 220 | 41 | ppbv | | ND | 1100 | 200 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 220 | 100 | ppbv | | ND | 450 | 210 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 220 | 93 | ppbv | | ND | 690 | 290 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 220 | 81 | ppbv | | ND | 1100 | 420 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 45 | 45 | ppbv | | ND | 280 | 280 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 220 | 120 | ppbv | | ND | 760 | 410 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 220 | 64 | ppbv | | ND | 890 | 260 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | 201 | 45 | 66 | ppbv | | 797 | 180 | 260 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 110 | 110 | ppbv | | ND | 850 | 850 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 220 | 78 | ppbv | | ND | 890 | 320 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 220 | 69 | ppbv | | ND | 1000 | 320 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 220 | 130 | ppbv | | ND | 790 | 470 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | ND | 220 | 36 | ppbv | | ND | 1100 | 180 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 110 | 58 | ppbv | | ND | 940 | 490 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | 174 | 220 | 77 | ppbv | J | 690 | 870 | 310 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | 13700 | 45 | 86 | ppbv | | 54300 | 180 | 340 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 220 | 69 | ppbv | | ND | 1000 | 310 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 110 | 45 | ppbv | | ND | 660 | 270 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 45 | 170 | ppbv | | ND | 270 | 1000 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 110 | 210 | ppbv | | ND | 660 | 1300 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 220 | 110 | ppbv | | ND | 1000 | 500 | ug/m3 |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EW-11-43C | | |
| **Lab Sample ID:** | JD52620-11 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AIR - Soil Vapor Comp. Summa ID: A791,M230 | **Date Received:** | 09/26/22 |
| **Method:** | TO-15 | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64-17-5 | 46.07 | Ethanol | ND | 560 | 440 | ppbv | | ND | 1100 | 830 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 220 | 68 | ppbv | | ND | 960 | 300 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | ND | 220 | 120 | ppbv | | ND | 790 | 430 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 220 | 110 | ppbv | | ND | 1100 | 540 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 110 | 35 | ppbv | | ND | 840 | 270 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 110 | 56 | ppbv | | ND | 770 | 390 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | ND | 220 | 100 | ppbv | | ND | 900 | 410 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 100 | 69 | ppbv | | ND | 1100 | 740 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | ND | 220 | 130 | ppbv | | ND | 780 | 460 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 220 | 160 | ppbv | | ND | 900 | 650 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | ND | 220 | 160 | ppbv | | ND | 540 | 390 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | ND | 220 | 63 | ppbv | | ND | 760 | 220 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | ND | 220 | 120 | ppbv | | ND | 650 | 350 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 220 | 82 | ppbv | | ND | 900 | 340 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 220 | 90 | ppbv | | ND | 790 | 320 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 220 | 78 | ppbv | | ND | 900 | 320 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 560 | 160 | ppbv | | ND | 960 | 270 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 220 | 130 | ppbv | | ND | 940 | 550 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 110 | 41 | ppbv | | ND | 600 | 220 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 110 | 54 | ppbv | | ND | 760 | 370 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 110 | 43 | ppbv | | ND | 600 | 230 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 110 | 140 | ppbv | | ND | 820 | 1000 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 220 | 97 | ppbv | | ND | 1100 | 480 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 220 | 90 | ppbv | | ND | 1100 | 440 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 220 | 110 | ppbv | | ND | 1000 | 510 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 220 | 100 | ppbv | | ND | 670 | 300 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | ND | 45 | 16 | ppbv | | ND | 310 | 110 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 220 | 100 | ppbv | | ND | 650 | 290 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | ND | 220 | 64 | ppbv | | ND | 830 | 240 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 42200 | 45 | 21 | ppbv | | 227000 | 240 | 110 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | ND | 110 | 40 | ppbv | | ND | 620 | 220 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | 4250 | 45 | 77 | ppbv | | 10900 | 120 | 200 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 220 | 130 | ppbv | | ND | 770 | 460 | ug/m3 |
| | 106.2 | m,p-Xylene | ND | 220 | 160 | ppbv | | ND | 960 | 690 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 220 | 86 | ppbv | | ND | 960 | 370 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | ND | 220 | 86 | ppbv | | ND | 960 | 370 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 105% | | 65-128% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





**Client Sample ID:** EW-12-45C
**Lab Sample ID:** JD52620-12
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A599
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2W61669.D | 1 | 09/29/22 18:55 | TCH | n/a | n/a | V2W2736 |
| Run #2 | | | | | | | |

| | Initial Volume |
|---|---|
| Run #1 | 100 ml |
| Run #2 | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 5.5 | 0.80 | 0.58 | ppbv | | 13 | 1.9 | 1.4 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.80 | 0.34 | ppbv | | ND | 1.8 | 0.75 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | 1.0 | 0.80 | 0.25 | ppbv | | 3.2 | 2.6 | 0.80 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.40 | 0.12 | ppbv | | ND | 2.7 | 0.80 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.16 | 0.28 | ppbv | | ND | 1.7 | 2.9 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.1 | 1.1 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.80 | 0.50 | ppbv | | ND | 4.1 | 2.6 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | 0.79 | 0.80 | 0.18 | ppbv | J | 2.5 | 2.5 | 0.56 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.80 | 0.30 | ppbv | | ND | 3.7 | 1.4 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.80 | 0.27 | ppbv | | ND | 2.1 | 0.71 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 0.80 | 0.15 | ppbv | | ND | 3.9 | 0.73 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | 2.1 | 0.80 | 0.36 | ppbv | | 4.3 | 1.7 | 0.74 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.80 | 0.33 | ppbv | | ND | 2.5 | 1.0 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.80 | 0.29 | ppbv | | ND | 4.1 | 1.5 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.16 | 0.16 | ppbv | | ND | 1.0 | 1.0 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 0.80 | 0.44 | ppbv | | ND | 2.8 | 1.5 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.80 | 0.23 | ppbv | | ND | 3.2 | 0.93 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | 0.71 | 0.16 | 0.24 | ppbv | | 2.8 | 0.63 | 0.95 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.40 | 0.39 | ppbv | | ND | 3.1 | 3.0 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | 1.1 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.80 | 0.25 | ppbv | | ND | 3.7 | 1.2 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.80 | 0.47 | ppbv | | ND | 2.9 | 1.7 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | 0.40 | 0.80 | 0.13 | ppbv | J | 2.0 | 4.0 | 0.64 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.40 | 0.21 | ppbv | | ND | 3.4 | 1.8 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | 0.64 | 0.80 | 0.28 | ppbv | J | 2.5 | 3.2 | 1.1 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | 84.8 | 0.16 | 0.31 | ppbv | | 336 | 0.63 | 1.2 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.80 | 0.25 | ppbv | | ND | 3.6 | 1.1 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.40 | 0.16 | ppbv | | ND | 2.4 | 0.96 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.16 | 0.62 | ppbv | | ND | 0.96 | 3.7 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.40 | 0.76 | ppbv | | ND | 2.4 | 4.6 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.80 | 0.40 | ppbv | | ND | 3.6 | 1.8 | ug/m3 |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** EW-12-45C
**Lab Sample ID:** JD52620-12
**Matrix:** AIR - Soil Vapor Comp. Summa ID: A599
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64-17-5 | 46.07 | Ethanol | ND | 2.0 | 1.6 | ppbv | | ND | 3.8 | 3.0 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 5.3 | 0.80 | 0.42 | ppbv | | 19 | 2.9 | 1.5 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 0.80 | 0.38 | ppbv | | ND | 3.9 | 1.9 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.40 | 0.12 | ppbv | | ND | 3.1 | 0.92 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.40 | 0.20 | ppbv | | ND | 2.8 | 1.4 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | ND | 0.80 | 0.37 | ppbv | | ND | 3.3 | 1.5 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.36 | 0.25 | ppbv | | ND | 3.8 | 2.7 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | 1.6 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.80 | 0.58 | ppbv | | ND | 3.3 | 2.4 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | ND | 0.80 | 0.56 | ppbv | | ND | 2.0 | 1.4 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | ND | 0.80 | 0.22 | ppbv | | ND | 2.8 | 0.76 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | 0.83 | 0.80 | 0.44 | ppbv | | 2.4 | 2.4 | 1.3 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.80 | 0.29 | ppbv | | ND | 3.3 | 1.2 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.80 | 0.32 | ppbv | | ND | 2.9 | 1.2 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.80 | 0.28 | ppbv | | ND | 3.3 | 1.1 | ug/m3 |
| 115-07-1 | 42 | Propylene | 2.5 | 2.0 | 0.57 | ppbv | | 4.3 | 3.4 | 0.98 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 0.80 | 0.47 | ppbv | | ND | 3.4 | 2.0 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.40 | 0.19 | ppbv | | ND | 2.7 | 1.3 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.40 | 0.48 | ppbv | | ND | 3.0 | 3.6 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 0.80 | 0.35 | ppbv | | ND | 3.9 | 1.7 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 0.80 | 0.32 | ppbv | | ND | 3.9 | 1.6 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 0.80 | 0.38 | ppbv | | ND | 3.7 | 1.8 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 0.80 | 0.37 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | ND | 0.16 | 0.056 | ppbv | | ND | 1.1 | 0.38 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.80 | 0.36 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | ND | 0.80 | 0.23 | ppbv | | ND | 3.0 | 0.87 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | 141 | 0.16 | 0.076 | ppbv | | 758 | 0.86 | 0.41 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | ND | 0.40 | 0.14 | ppbv | | ND | 2.2 | 0.79 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | 38.1 | 0.16 | 0.28 | ppbv | | 97.4 | 0.41 | 0.72 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | 1.6 | ug/m3 |
| | 106.2 | m,p-Xylene | ND | 0.80 | 0.56 | ppbv | | ND | 3.5 | 2.4 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 105% | | 65-128% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





**Client Sample ID:** TRIP BLANK
**Lab Sample ID:** JD52620-13
**Matrix:** AIR - Trip Blank Air Summa ID: M200
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2W61658.D | 1 | 09/29/22 12:44 | TCH | n/a | n/a | V2W2736 |
| Run #2 | | | | | | | |

| | Initial Volume |
|---|---|
| Run #1 | 100 ml |
| Run #2 | |

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | 58.08 | Acetone (2-Propanone) | 1.1 | 0.80 | 0.58 | ppbv | | 2.6 | 1.9 | 1.4 | ug/m3 |
| 106-99-0 | 54.09 | 1,3-Butadiene | ND | 0.80 | 0.34 | ppbv | | ND | 1.8 | 0.75 | ug/m3 |
| 71-43-2 | 78.11 | Benzene | ND | 0.80 | 0.25 | ppbv | | ND | 2.6 | 0.80 | ug/m3 |
| 75-27-4 | 163.8 | Bromodichloromethane | ND | 0.40 | 0.12 | ppbv | | ND | 2.7 | 0.80 | ug/m3 |
| 75-25-2 | 252.8 | Bromoform | ND | 0.16 | 0.28 | ppbv | | ND | 1.7 | 2.9 | ug/m3 |
| 74-83-9 | 94.94 | Bromomethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.1 | 1.1 | ug/m3 |
| 593-60-2 | 106.9 | Bromoethene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 100-44-7 | 126 | Benzyl Chloride | ND | 0.80 | 0.50 | ppbv | | ND | 4.1 | 2.6 | ug/m3 |
| 75-15-0 | 76.14 | Carbon disulfide | ND | 0.80 | 0.18 | ppbv | | ND | 2.5 | 0.56 | ug/m3 |
| 108-90-7 | 112.6 | Chlorobenzene | ND | 0.80 | 0.30 | ppbv | | ND | 3.7 | 1.4 | ug/m3 |
| 75-00-3 | 64.52 | Chloroethane | ND | 0.80 | 0.27 | ppbv | | ND | 2.1 | 0.71 | ug/m3 |
| 67-66-3 | 119.4 | Chloroform | ND | 0.80 | 0.15 | ppbv | | ND | 3.9 | 0.73 | ug/m3 |
| 74-87-3 | 50.49 | Chloromethane | ND | 0.80 | 0.36 | ppbv | | ND | 1.7 | 0.74 | ug/m3 |
| 107-05-1 | 76.53 | 3-Chloropropene | ND | 0.80 | 0.33 | ppbv | | ND | 2.5 | 1.0 | ug/m3 |
| 95-49-8 | 126.6 | 2-Chlorotoluene | ND | 0.80 | 0.29 | ppbv | | ND | 4.1 | 1.5 | ug/m3 |
| 56-23-5 | 153.8 | Carbon tetrachloride | ND | 0.16 | 0.16 | ppbv | | ND | 1.0 | 1.0 | ug/m3 |
| 110-82-7 | 84.16 | Cyclohexane | ND | 0.80 | 0.44 | ppbv | | ND | 2.8 | 1.5 | ug/m3 |
| 75-34-3 | 98.96 | 1,1-Dichloroethane | ND | 0.80 | 0.23 | ppbv | | ND | 3.2 | 0.93 | ug/m3 |
| 75-35-4 | 96.94 | 1,1-Dichloroethylene | ND | 0.16 | 0.24 | ppbv | | ND | 0.63 | 0.95 | ug/m3 |
| 106-93-4 | 187.9 | 1,2-Dibromoethane (EDB) | ND | 0.40 | 0.39 | ppbv | | ND | 3.1 | 3.0 | ug/m3 |
| 107-06-2 | 98.96 | 1,2-Dichloroethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | 1.1 | ug/m3 |
| 78-87-5 | 113 | 1,2-Dichloropropane | ND | 0.80 | 0.25 | ppbv | | ND | 3.7 | 1.2 | ug/m3 |
| 123-91-1 | 88.12 | 1,4-Dioxane | ND | 0.80 | 0.47 | ppbv | | ND | 2.9 | 1.7 | ug/m3 |
| 75-71-8 | 120.9 | Dichlorodifluoromethane | ND | 0.80 | 0.13 | ppbv | | ND | 4.0 | 0.64 | ug/m3 |
| 124-48-1 | 208.3 | Dibromochloromethane | ND | 0.40 | 0.21 | ppbv | | ND | 3.4 | 1.8 | ug/m3 |
| 156-60-5 | 96.94 | trans-1,2-Dichloroethylene | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | 1.1 | ug/m3 |
| 156-59-2 | 96.94 | cis-1,2-Dichloroethylene | ND | 0.16 | 0.31 | ppbv | | ND | 0.63 | 1.2 | ug/m3 |
| 10061-01-5 | 111 | cis-1,3-Dichloropropene | ND | 0.80 | 0.25 | ppbv | | ND | 3.6 | 1.1 | ug/m3 |
| 541-73-1 | 147 | m-Dichlorobenzene | ND | 0.40 | 0.16 | ppbv | | ND | 2.4 | 0.96 | ug/m3 |
| 95-50-1 | 147 | o-Dichlorobenzene | ND | 0.16 | 0.62 | ppbv | | ND | 0.96 | 3.7 | ug/m3 |
| 106-46-7 | 147 | p-Dichlorobenzene | ND | 0.40 | 0.76 | ppbv | | ND | 2.4 | 4.6 | ug/m3 |
| 10061-02-6 | 111 | trans-1,3-Dichloropropene | ND | 0.80 | 0.40 | ppbv | | ND | 3.6 | 1.8 | ug/m3 |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





**Client Sample ID:** TRIP BLANK
**Lab Sample ID:** JD52620-13
**Matrix:** AIR - Trip Blank Air Summa ID: M200
**Method:** TO-15
**Project:** EPT, Ithaca, NY

**Date Sampled:** 09/22/22
**Date Received:** 09/26/22
**Percent Solids:** n/a

**VOA TO15 List**

| CAS No. | MW | Compound | Result | RL | MDL | Units | Q | Result | RL | MDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64-17-5 | 46.07 | Ethanol | ND | 2.0 | 1.6 | ppbv | | ND | 3.8 | 3.0 | ug/m3 |
| 100-41-4 | 106.2 | Ethylbenzene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | 1.0 | ug/m3 |
| 141-78-6 | 88 | Ethyl Acetate | 5.5 | 0.80 | 0.42 | ppbv | | 20 | 2.9 | 1.5 | ug/m3 |
| 622-96-8 | 120.19 | 4-Ethyltoluene | ND | 0.80 | 0.38 | ppbv | | ND | 3.9 | 1.9 | ug/m3 |
| 76-13-1 | 187.4 | Freon 113 | ND | 0.40 | 0.12 | ppbv | | ND | 3.1 | 0.92 | ug/m3 |
| 76-14-2 | 170.9 | Freon 114 | ND | 0.40 | 0.20 | ppbv | | ND | 2.8 | 1.4 | ug/m3 |
| 142-82-5 | 100.2 | Heptane | ND | 0.80 | 0.37 | ppbv | | ND | 3.3 | 1.5 | ug/m3 |
| 87-68-3 | 260.8 | Hexachlorobutadiene | ND | 0.36 | 0.25 | ppbv | | ND | 3.8 | 2.7 | ug/m3 |
| 110-54-3 | 86.18 | Hexane | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | 1.6 | ug/m3 |
| 591-78-6 | 100 | 2-Hexanone | ND | 0.80 | 0.58 | ppbv | | ND | 3.3 | 2.4 | ug/m3 |
| 67-63-0 | 60.1 | Isopropyl Alcohol | ND | 0.80 | 0.56 | ppbv | | ND | 2.0 | 1.4 | ug/m3 |
| 75-09-2 | 84.94 | Methylene chloride | ND | 0.80 | 0.22 | ppbv | | ND | 2.8 | 0.76 | ug/m3 |
| 78-93-3 | 72.11 | Methyl ethyl ketone | ND | 0.80 | 0.44 | ppbv | | ND | 2.4 | 1.3 | ug/m3 |
| 108-10-1 | 100.2 | Methyl Isobutyl Ketone | ND | 0.80 | 0.29 | ppbv | | ND | 3.3 | 1.2 | ug/m3 |
| 1634-04-4 | 88.15 | Methyl Tert Butyl Ether | ND | 0.80 | 0.32 | ppbv | | ND | 2.9 | 1.2 | ug/m3 |
| 80-62-6 | 100.12 | Methylmethacrylate | ND | 0.80 | 0.28 | ppbv | | ND | 3.3 | 1.1 | ug/m3 |
| 115-07-1 | 42 | Propylene | ND | 2.0 | 0.57 | ppbv | | ND | 3.4 | 0.98 | ug/m3 |
| 100-42-5 | 104.1 | Styrene | ND | 0.80 | 0.47 | ppbv | | ND | 3.4 | 2.0 | ug/m3 |
| 71-55-6 | 133.4 | 1,1,1-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 79-34-5 | 167.85 | 1,1,2,2-Tetrachloroethane | ND | 0.40 | 0.19 | ppbv | | ND | 2.7 | 1.3 | ug/m3 |
| 79-00-5 | 133.4 | 1,1,2-Trichloroethane | ND | 0.40 | 0.15 | ppbv | | ND | 2.2 | 0.82 | ug/m3 |
| 120-82-1 | 181.5 | 1,2,4-Trichlorobenzene | ND | 0.40 | 0.48 | ppbv | | ND | 3.0 | 3.6 | ug/m3 |
| 95-63-6 | 120.19 | 1,2,4-Trimethylbenzene | ND | 0.80 | 0.35 | ppbv | | ND | 3.9 | 1.7 | ug/m3 |
| 108-67-8 | 120.19 | 1,3,5-Trimethylbenzene | ND | 0.80 | 0.32 | ppbv | | ND | 3.9 | 1.6 | ug/m3 |
| 540-84-1 | 114.2 | 2,2,4-Trimethylpentane | ND | 0.80 | 0.38 | ppbv | | ND | 3.7 | 1.8 | ug/m3 |
| 75-65-0 | 74.12 | Tertiary Butyl Alcohol | ND | 0.80 | 0.37 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 127-18-4 | 165.8 | Tetrachloroethylene | ND | 0.16 | 0.056 | ppbv | | ND | 1.1 | 0.38 | ug/m3 |
| 109-99-9 | 72.11 | Tetrahydrofuran | ND | 0.80 | 0.36 | ppbv | | ND | 2.4 | 1.1 | ug/m3 |
| 108-88-3 | 92.14 | Toluene | 0.45 | 0.80 | 0.23 | ppbv | J | 1.7 | 3.0 | 0.87 | ug/m3 |
| 79-01-6 | 131.4 | Trichloroethylene | ND | 0.16 | 0.076 | ppbv | | ND | 0.86 | 0.41 | ug/m3 |
| 75-69-4 | 137.4 | Trichlorofluoromethane | ND | 0.40 | 0.14 | ppbv | | ND | 2.2 | 0.79 | ug/m3 |
| 75-01-4 | 62.5 | Vinyl chloride | ND | 0.16 | 0.28 | ppbv | | ND | 0.41 | 0.72 | ug/m3 |
| 108-05-4 | 86 | Vinyl Acetate | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | 1.6 | ug/m3 |
| | 106.2 | m,p-Xylene | ND | 0.80 | 0.56 | ppbv | | ND | 3.5 | 2.4 | ug/m3 |
| 95-47-6 | 106.2 | o-Xylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |
| 1330-20-7 | 106.2 | Xylenes (total) | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | 1.3 | ug/m3 |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 105% | | 65-128% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

## Misc. Forms

# Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle
- 2021 MDL Study - Method: TO-15

SGS

Air

# CHAIN OF CUSTODY - AIR

PAGE 1 OF 1

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking # 5894-7366-9184
Bottle Order Control # 93-0911922-36
SGS Quote #
SGS Job # JD52620

| Client / Reporting Information | Project Information | Weather Parameters | Requested Analysis |
|---|---|---|---|
| Company Name: WSP USA | Project Name: FORMER EPT - ITHACA, NY | Temperature (Fahrenheit) Start: Maximum: Stop: Minimum: | |
| Address | Street: 620 SOUTH AURORA ST | | |
| City State Zip | City: ITHACA, NY State | Atmoshpheric Pressure (inches of Hg) Start: Maximum: Stop: Minimum: | |
| Project Contact: JEFFREY.BAKER@WSP.COM E-mail | Project #: 31401545.001 TASK 01.63 | | |
| Phone #: 315-420-9973 | Client Purchase Order # | | |
| Sampler(s) Name(s): NATE WINSTON | | Other weather comment: | |

| Lab Sample # | Field ID / Point of Collection | Air Type: Ind (I) Soil Vap (SV) Amb (A) | Air Type: Res (R) Non-Res (NR) | Sampling Equipment Info: Canister Serial # | Canister Size 6L or 1L | Flow Controller Serial # | Start Sampling Information: Date | Time (24hr clock) | Canister Pressure ("Hg) | Interior Temp (F) | Sampler Init. | Stop Sampling Information: Date | Time (24hr clock) | Canister Pressure ("Hg) | Interior Temp (F) | Sampler Init. | TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EW-1-62C | SV | NR | A676 | 1-L | FC558 | 9/22/22 | 1450 | -15 | 64 | NW | 9/22/22 | 1545 | -2 | | NW | X |
| 2 | EW-2-62C | | | A418 | | FC637 | | 1451 | -29 | | | | 1547 | -3 | | | X |
| 3 | EW-3-60C | | | A797 | | FC546 | | 1451 | -28 | | | | 1549 | -2 | | | X |
| 4 | EW-4-25B | | | A504 | | MC823 | | 1452 | -28 | | | | 1549 | -5 | | | X |
| 5 | EW-5-25B | | | M180 | | MC242 | | 1452 | -29 | | | | 1549 | -1 | | | X |
| 6 | EW-6-60C | | | ~~A509~~ | M430 | FC679 | | 1453 | -24 | | | | 1549 | -1 | | | X |
| 7 | EW-7-25B | | | M462 | | FC591 | | 1453 | -25 | | | | 1550 | -3 | | | X |
| 8 | EW-8-62C | | | A1152 | | MC270 | | 1454 | -26 | | | | 1527 | -2 | 65 | | X |
| 9 | EW-9R-72C | | | A534 | | FC131 | | 1454 | -29 | | | | 1529 | -1 | 65 | | X |
| 10 | EW-10-25B | | | A1105 | | FC686 | | 1449 | -30 | | | | 1549 | -4 | | | X |

**Turnaround Time (Business days)**

- [X] 15 Business Days
- [ ] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days *
- [ ] 2 Business Days *
- [ ] 1 Business Day *
- [ ] Other

Approved By: _____

Date: _____

* Approval needed for 1-3 Business Day TAT

**Data Deliverable Information**

All NJDEP TO-15 is mandatory Full T1

- Comm A
- Comm B [X] NYSDEC CATB
- Reduced T2
- Full T1
- Other:
- DKQP reporting

**Comments / Remarks**

Sample inventory is verified upon receipt in the Laboratory

**Sample Custody must be documented below each time samples change possession, including courier delivery.**

| Relinquished by Laboratory: | Date / Time: | | Received By: | Relinquished By: | Date / Time: | Received By: |
|---|---|---|---|---|---|---|
| 1 [signature] | 9/23/22 | 1300 | 1 [signature] | 2 | | 2 |
| 3 [signature] | 9/23/22 | 1500 | 3 [signature] | 4 | | 4 |
| 5 | | | 5 | Custody Seal # | | |

http://www.sgs.com/en/terms-and-conditions

EHSA-QAC-0022-01-FORM-Dayton-Air COC
Rev.date:1/15/2021

Initial Assessment NA (4B)

Label Verification _____

5.1

5

JD52620: Chain of Custody
Page 1 of 4

# CHAIN OF CUSTODY - AIR



SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX 732-329-3499
www.sgs.com/ehsusa

FED-EX Tracking #: | Bottle Order Control #: TS-09792-26
SGS Quote #: | SGS Job #: JD52620

| Client / Reporting Information | Project Information | Weather Parameters |
|---|---|---|
| Company Name | Project Name: | Temperature (Fahrenheit) Start: Maximum: |
| Address | Street | Stop: Minimum: |
| City State Zip | City State | Atmoshpheric Pressure (inches of Hg) Start: Maximum: |
| Project Contact E-mail | Project # | Stop: Minimum: |
| Phone # | Client Purchase Order # | Other weather comment: |
| Sampler(s) Name(s) | | |

| Lab Sample # | Field ID / Point of Collection | Air Type: Ind (I) Soil Vap (SV) Amb (A) | Air Type: Res (R) Non-Res (NR) | Sampling Equipment Info: Canister Serial # | Sampling Equipment Info: Canister Size 6L or 1L | Sampling Equipment Info: Flow Controller Serial # | Start Sampling Information: Date | Start: Time (24hr clock) | Start: Canister Pressure ("Hg) | Start: Interior Temp (F) | Start: Sampler Init. | Stop Sampling Information: Date | Stop: Time (24hr clock) | Stop: Canister Pressure ("Hg) | Stop: Interior Temp (F) | Stop: Sampler Init. | Requested Analysis: TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | EW-11-43C | SV | NR | A791 | 1-L | FC451 | 9/22/22 | 1444 | -29 | 64 | MW | 9/23/22 | 1529 | -1 | 65 | NW | X |
| 12 | EW-12-45C | SV | NR | A599 | 1-L | FC451 | 9/22/22 | 1444 | -29 | 64 | NW | 9/23/22 | 1530 | -1 | 65 | NW | X |
| 13 | TRIP BLANK | — | — | M300 | 1-L | — | — | — | — | — | — | — | — | — | — | — | X |

**Turnaround Time ( Business days)**
15 Business Days
10 Business Days
5 Business Days
3 Business Days *
2 Business Days *
1 Business Day *
Other
Approved By:
Date:
* Approval needed for 1-3 Business Day TAT

**Data Deliverable Information**
All NJDEP TO-15 is mandatory Full T1
Comm A
Comm B X NYS DEC CAT B
Reduced T2
Full T1
Other:
DKQP reporting

**Comments / Remarks**
Sample inventory is verified upon receipt in the Laboratory

**Sample Custody must be documented below each time samples change possession, including courier delivery.**

| Relinquished by Laboratory: | Date / Time: | | Received By: | Relinquished By: | Date / Time: | Received By: |
|---|---|---|---|---|---|---|
| 1 | 9/22/22 | 1300 | 1 | 2 | | 2 |
| Relinquished by: | Date / Time: | | Received By: | Relinquished By: | Date / Time: | Received By: |
| 3 | 9/23/22 | 1500 | 3 | 4 | | 4 |
| Relinquished by: | Date / Time: | | Received By: | Custody Seal # | | |
| 5 | | | 5 | | | |

http://www.sgs.com/en/terms-and-conditions

EHSA-QAC-0022-01-FORM-Dayton-Air COC
Rev.date:1/15/2021

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# AIR SAMPLING EQUIPMENT RETURN FORM

CLIENT:

PROJECT:

CONTROL#

JOB # JD52620

ADDITIONAL SUMMA CANISTERS

ADDITIONAL CONTROLLERS

14 FC 472

| RELINQUISHED BY: 1 | DATE & TIME: | RECEIVED BY: 2 | DATE & TIME: |
|---|---|---|---|
| RELINQUISHED BY: 3 | DATE & TIME: | RECEIVED BY: 4 | DATE & TIME: |
| CUSTODY SEAL #'S: | | # OF BOXES OR PIECES IN DELIVERY | |

NOTES:

SM086-03
Pub date: 3/12/18

JD52620: Chain of Custody
Page 3 of 4

# SGS Sample Receipt Summary

**Job Number:** JD52620 **Client:** WSP **Project:** EPT, ITHACA, NY

**Date / Time Received:** 9/24/2022 10:00:00 AM **Delivery Method:** Fed Ex **Airbill #'s:** 5894 7366 9184

**Cooler Temps (Raw Measured) °C:**

**Cooler Temps (Corrected) °C:**

| Cooler Security | Y | or | N | | Y | or | N |
|---|---|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | | ☐ | 3. COC Present: | ☑ | | ☐ |
| 2. Custody Seals Intact: | ☑ | | ☐ | 4. Smpl Dates/Time OK | ☑ | | ☐ |

| Cooler Temperature | Y | or | N |
|---|---|---|---|
| 1. Temp criteria achieved: | ☐ | | ☐ |
| 2. Cooler temp verification: | N/A | | |
| 3. Cooler media: | N/A | | |
| 4. No. Coolers: | N/A | | |

| Quality Control Preservation | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Trip Blank present / cooler: | ☐ | | ☐ | ☑ |
| 2. Trip Blank listed on COC: | ☐ | | ☐ | ☑ |
| 3. Samples preserved properly: | ☑ | | ☐ | |
| 4. VOCs headspace free: | ☐ | | ☐ | ☑ |

| Sample Integrity - Documentation | Y | or | N |
|---|---|---|---|
| 1. Sample labels present on bottles: | ☑ | | ☐ |
| 2. Container labeling complete: | ☑ | | ☐ |
| 3. Sample container label / COC agree: | ☑ | | ☐ |

| Sample Integrity - Condition | Y | or | N |
|---|---|---|---|
| 1. Sample recvd within HT: | ☑ | | ☐ |
| 2. All containers accounted for: | ☑ | | ☐ |
| 3. Condition of sample: | Intact | | |

| Sample Integrity - Instructions | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | | ☐ | |
| 4. Compositing instructions clear: | ☐ | | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | | ☐ | ☑ |

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

# Summa Canister and Flow Controller Log



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Received:** 09/26/22



**SUMMA CANISTERS**

| Shipping | | | | | | | Receiving | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Summa ID | L | Vac " Hg | Date Out | By | SCC Batch | SCC FileID | Sample Number | Date In | By | Vac " Hg | Pres psig | Final psig | Dil Fact |
| A676 | 1 | 29.4 | 09/20/22 | ML | CP11848 | 2W61039.D | JD52620-1 | 09/28/22 | ML | 5.5 | | | 1 |
| A418 | 1 | 29.4 | 09/20/22 | ML | CP11848 | 2W61039.D | JD52620-2 | 09/28/22 | ML | 3.5 | | | 1 |
| A797 | 1 | 29.4 | 09/20/22 | ML | CP11848 | 2W61039.D | JD52620-3 | 09/28/22 | ML | 5 | | | 1 |
| A504 | 1 | 29.4 | 09/20/22 | ML | CP11860 | 2W61174.D | JD52620-4 | 09/28/22 | ML | 6 | | | 1 |
| M180 | 1 | 29.4 | 09/20/22 | ML | CP11860 | 2W61174.D | JD52620-5 | 09/28/22 | ML | 3.5 | | | 1 |
| M430 | 1 | 29.4 | 09/20/22 | ML | CP11848 | 2W61039.D | JD52620-6 | 09/28/22 | ML | 2 | | | 1 |
| M462 | 1 | 29.4 | 09/20/22 | ML | CP11848 | 2W61039.D | JD52620-7 | 09/28/22 | ML | 3.5 | | | 1 |
| A1152 | 1 | 29.4 | 09/20/22 | ML | CP11848 | 2W61039.D | JD52620-8 | 09/28/22 | ML | 1.5 | | | 1 |
| A534 | 1 | 29.4 | 09/20/22 | ML | CP11848 | 2W61039.D | JD52620-9 | 09/28/22 | ML | 1.5 | | | 1 |
| A1105 | 1 | 29.4 | 09/20/22 | ML | CP11848 | 2W61039.D | JD52620-10 | 09/28/22 | ML | 3.5 | | | 1 |
| A791 | 1 | 29.4 | 09/20/22 | ML | CP11860 | 2W61174.D | JD52620-11 | 09/28/22 | ML | 1 | | | 1 |
| A599 | 1 | 29.4 | 09/20/22 | ML | CP11848 | 2W61039.D | JD52620-12 | 09/28/22 | ML | 1.5 | | | 1 |
| M200 | 1 | 29.4 | 09/20/22 | ML | CP11848 | 2W61039.D | JD52620-13 | 09/28/22 | ML | 30 | | | 1 |

**FLOW CONTROLLERS / OTHER**

| Shipping | | | | | Receiving | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Flow Crtl ID | Date Out | By | cc/ min | Time hrs. | Date In | By | cc/ min | Flow RPD | Equipment Type |
| FC131 | 09/20/22 | ML | 13.8 | 1 | 09/30/22 | TC | 17.8 | 25.3* | Flow Controller |
| FC451 | 09/20/22 | ML | 13.9 | 1 | 09/30/22 | TC | 14.6 | 4.9 | Flow Controller |
| FC472 | 09/20/22 | ML | 13.8 | 1 | 09/30/22 | TC | 15 | 8.3 | Flow Controller |
| FC546 | 09/20/22 | ML | 13.8 | 1 | 09/30/22 | TC | 15.5 | 11.6 | Flow Controller |
| FC558 | 09/20/22 | ML | 14 | 1 | 09/30/22 | TC | 15.7 | 11.4 | Flow Controller |
| FC591 | 09/20/22 | ML | 14 | 1 | 09/30/22 | TC | 14.9 | 6.2 | Flow Controller |
| FC637 | 09/20/22 | ML | 13.8 | 1 | 09/30/22 | TC | 15.7 | 12.9 | Flow Controller |
| FC679 | 09/20/22 | ML | 14 | 1 | 09/30/22 | TC | 15.8 | 12.1 | Flow Controller |
| FC686 | 09/20/22 | ML | 14 | 1 | 09/30/22 | TC | 14.6 | 4.2 | Flow Controller |
| FC951 | 09/20/22 | ML | 14 | 1 | 09/30/22 | TC | 15 | 6.9 | Flow Controller |
| MC223 | 09/20/22 | ML | 13.9 | 1 | 09/30/22 | TC | 14.4 | 3.5 | Flow Controller |
| MC242 | 09/20/22 | ML | 13.7 | 1 | 09/30/22 | TC | 15.3 | 11 | Flow Controller |
| MC270 | 09/20/22 | ML | 13.9 | 1 | 09/30/22 | TC | 15.3 | 9.6 | Flow Controller |

* Flow controller RPD > 20%

**SGS Bottle Order(s):**
TS-091922-36

| Prep Date | Room Temp(F) | Bar Pres "Hg |
|---|---|---|
| 09/20/22 | 70 | 29.92 |

# Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

**Job No:** JD52620

EPT, Ithaca, NY
Project No: 31401545.001 Task 01.63

| Sample Number | Method | Analyzed | By | Prepped | By | Test Codes |
|---|---|---|---|---|---|---|
| JD52620-1 EW-1-62C | Collected: 22-SEP-22 15:45 By: NW | | Received: 26-SEP-22 By: JK | | | |
| JD52620-1 | TO-15 | 28-SEP-22 19:16 | TCH | | | VTO15STD |
| JD52620-2 EW-2-62C | Collected: 22-SEP-22 15:47 By: NW | | Received: 26-SEP-22 By: JK | | | |
| JD52620-2 | TO-15 | 28-SEP-22 19:49 | TCH | | | VTO15STD |
| JD52620-3 EW-3-60C | Collected: 22-SEP-22 15:49 By: NW | | Received: 26-SEP-22 By: JK | | | |
| JD52620-3 | TO-15 | 29-SEP-22 13:15 | TCH | | | VTO15STD |
| JD52620-3 | TO-15 | 30-SEP-22 01:51 | TCH | | | VTO15STD |
| JD52620-4 EW-4-25B | Collected: 22-SEP-22 15:49 By: NW | | Received: 26-SEP-22 By: JK | | | |
| JD52620-4 | TO-15 | 29-SEP-22 13:47 | TCH | | | VTO15STD |
| JD52620-5 EW-5-25B | Collected: 22-SEP-22 15:49 By: NW | | Received: 26-SEP-22 By: JK | | | |
| JD52620-5 | TO-15 | 29-SEP-22 14:39 | TCH | | | VTO15STD |
| JD52620-5 | TO-15 | 30-SEP-22 02:34 | TCH | | | VTO15STD |
| JD52620-6 EW-6-60C | Collected: 22-SEP-22 15:49 By: NW | | Received: 26-SEP-22 By: JK | | | |
| JD52620-6 | TO-15 | 29-SEP-22 15:12 | TCH | | | VTO15STD |
| JD52620-6 | TO-15 | 30-SEP-22 03:18 | TCH | | | VTO15STD |
| JD52620-7 EW-7-25B | Collected: 22-SEP-22 15:50 By: NW | | Received: 26-SEP-22 By: JK | | | |
| JD52620-7 | TO-15 | 29-SEP-22 15:44 | TCH | | | VTO15STD |
| JD52620-7 | TO-15 | 30-SEP-22 04:00 | TCH | | | VTO15STD |

# Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

**Job No:** JD52620

EPT, Ithaca, NY
Project No: 31401545.001 Task 01.63

| Sample Number | Method | Analyzed | By | Prepped | By | Test Codes |
|---|---|---|---|---|---|---|
| JD52620-8 | Collected: 22-SEP-22 15:27 By: NW | | Received: 26-SEP-22 By: JK | | | |
| EW-8-62C | | | | | | |
| JD52620-8 | TO-15 | 29-SEP-22 16:16 | TCH | | | VTO15STD |
| JD52620-8 | TO-15 | 30-SEP-22 04:43 | TCH | | | VTO15STD |
| JD52620-9 | Collected: 22-SEP-22 15:29 By: NW | | Received: 26-SEP-22 By: JK | | | |
| EW-9R-72C | | | | | | |
| JD52620-9 | TO-15 | 29-SEP-22 17:19 | TCH | | | VTO15STD |
| JD52620-9 | TO-15 | 30-SEP-22 13:15 | TCH | | | VTO15STD |
| JD52620-10 | Collected: 22-SEP-22 15:49 By: NW | | Received: 26-SEP-22 By: JK | | | |
| EW-10-25B | | | | | | |
| JD52620-10 | TO-15 | 29-SEP-22 17:52 | TCH | | | VTO15STD |
| JD52620-11 | Collected: 22-SEP-22 15:29 By: NW | | Received: 26-SEP-22 By: JK | | | |
| EW-11-43C | | | | | | |
| JD52620-11 | TO-15 | 30-SEP-22 12:43 | TCH | | | VTO15STD |
| JD52620-12 | Collected: 22-SEP-22 15:30 By: NW | | Received: 26-SEP-22 By: JK | | | |
| EW-12-45C | | | | | | |
| JD52620-12 | TO-15 | 29-SEP-22 18:55 | TCH | | | VTO15STD |
| JD52620-13 | Collected: 22-SEP-22 15:50 By: NW | | Received: 26-SEP-22 By: JK | | | |
| TRIP BLANK | | | | | | |
| JD52620-13 | TO-15 | 29-SEP-22 12:44 | TCH | | | VTO15STD |

**SGS North America Inc.-Dayton laboratory**
**TO-15 FINAL MDL for 2020-2021**

| METHOD | RI | LOGINNUM | SPEC_MAT | SAMPLENUM | CLIENTID | MEASUREDATE | INSTRUME | PARM_STO | PARM_SYN | FINAL MDL | RDLVALUE | COMMENT | UNITS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TO-15 | | JD18443D | STYA | JD18443D-4D | MDLV : 0.04 PPBV 2W | 12/30/21 4:00 | GCMS2W | 120-82-1 | 1,2,4-Trichlorobenzene | 0.121 | 0.2 | 2W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-4D | MDLV : 0.04 PPBV 2W | 12/30/21 4:00 | GCMS2W | 541-73-1 | m-Dichlorobenzene | 0.04 | 0.2 | 2W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-4D | MDLV : 0.04 PPBV 2W | 12/30/21 4:00 | GCMS2W | 91-20-3 | Naphthalene | 0.127 | 0.2 | 2W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-4D | MDLV : 0.04 PPBV 2W | 12/30/21 4:00 | GCMS2W | 127-18-4 | Tetrachloroethylene | 0.014 | 0.04 | 2W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-4D | MDLV : 0.04 PPBV 2W | 12/30/21 4:00 | GCMS2W | 79-01-6 | Trichloroethylene | 0.019 | 0.04 | 2W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.042 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 71-55-6 | 1,1,1-Trichloroethane | 0.037 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.048 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 79-00-5 | 1,1,2-Trichloroethane | 0.038 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-34-3 | 1,1-Dichloroethane | 0.057 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-35-4 | 1,1-Dichloroethylene | 0.059 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 96-18-4 | 1,2,3-Trichloropropane | 0.05 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 526-73-8 | 1,2,3-Trimethylbenzene | 0.099 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 95-63-6 | 1,2,4-Trimethylbenzene | 0.087 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 106-93-4 | 1,2-Dibromoethane (EDB) | 0.097 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 107-06-2 | 1,2-Dichloroethane | 0.07 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 78-87-5 | 1,2-Dichloropropane | 0.062 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 108-67-8 | 1,3,5-Trimethylbenzene | 0.062 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 106-99-0 | 1,3-Butadiene | 0.084 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 142-28-9 | 1,3-Dichloropropane | 0.057 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 123-91-1 | 1,4-Dioxane | 0.117 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 540-84-1 | 2,2,4-Trimethylpentane | 0.095 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 565-59-3 | 2,3-Dimethylpentane | 0.089 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 108-08-7 | 2,4-Dimethylpentane | 0.104 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 95-49-8 | 2-Chlorotoluene | 0.072 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 591-78-6 | 2-Hexanone | 0.145 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 107-05-1 | 3-Chloropropene | 0.083 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 622-96-8 | 4-Ethyltoluene | 0.095 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 67-64-1 | Acetone (2-Propanone) | 0.145 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-05-8 | Acetonitrile | 0.171 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 107-02-8 | Acrolein | 0.0883 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 107-13-1 | Acrylonitrile | 0.091 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 71-43-2 | Benzene | 0.062 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 100-44-7 | Benzyl Chloride | 0.125 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 108-86-1 | Bromobenzene | 0.154 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-27-4 | Bromodichloromethane | 0.03 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 593-60-2 | Bromoethene | 0.061 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-25-2 | Bromoform | 0.071 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 74-83-9 | Bromomethane | 0.069 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-15-0 | Carbon disulfide | 0.045 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 56-23-5 | Carbon tetrachloride | 0.04 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 108-90-7 | Chlorobenzene | 0.074 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-45-6 | Chlorodifluoromethane | 0.106 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-00-3 | Chloroethane | 0.068 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 67-66-3 | Chloroform | 0.037 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 74-87-3 | Chloromethane | 0.09 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 79-38-9 | Chlorotrifluoroethene | 0.024 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 156-59-2 | cis-1,2-Dichloroethylene | 0.077 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 10061-01-5 | cis-1,3-Dichloropropene | 0.062 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 110-82-7 | Cyclohexane | 0.11 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 124-48-1 | Dibromochloromethane | 0.052 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 74-95-3 | Dibromomethane | 0.053 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-71-8 | Dichlorodifluoromethane | 0.032 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 75-43-4 | Dichlorofluoromethane | 0.066 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 108-20-3 | Di-isopropyl ether | 0.082 | 0.2 | 5W Q-4 | I ppbv |
| TO-15 | | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 PPBV 5W | 12/30/21 5:36 | GCMS5W | 64-17-5 | Ethanol | 0.394 | 0.5 | 5W Q-4 | I ppbv |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 141-78-6 | Ethyl Acetate | 0.104 | 0.2 | 5W | Q-4 | I | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 140-88-5 | Ethyl Acrylate | 0.105 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 100-41-4 | Ethylbenzene | 0.061 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 76-13-1 | Freon 113 | 0.031 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 76-14-2 | Freon 114 | 0.05 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443B | STYA | JD18443B-1F | MDLV : 0.2 | PPBV | 3W | 4/27/21 | 5:01 | GCMS3W | 76-15-3 | Freon 115 | 0.0077 | 0.2 | 3W | Q-2 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 306-83-2 | Freon 123 | 0.083 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 354-23-4 | Freon 123A | 0.068 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 75-68-3 | Freon 142B | 0.07 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 75-37-6 | Freon 152A | 0.06 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 142-82-5 | Heptane | 0.092 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 87-68-3 | Hexachlorobutadiene | 0.062 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 67-72-1 | Hexachloroethane | 0.082 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 110-54-3 | Hexane | 0.112 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 74-88-4 | Iodomethane | 0.037 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 67-63-0 | Isopropyl Alcohol | 0.187 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 98-82-8 | Isopropylbenzene | 0.064 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | M,P-XYLEN | m,p-Xylene | 0.139 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 78-93-3 | Methyl ethyl ketone | 0.11 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 108-10-1 | Methyl Isobutyl Ketone | 0.073 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 1634-04-4 | Methyl Tert Butyl Ether | 0.08 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 75-09-2 | Methylene chloride | 0.056 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 80-62-6 | Methylmethacrylate | 0.07 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 106-97-8 | n-Butane | 0.106 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 104-51-8 | n-Butylbenzene | 0.106 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 111-84-2 | Nonane | 0.1 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 103-65-1 | n-Propylbenzene | 0.091 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 111-65-9 | Octane | 0.12 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 95-50-1 | o-Dichlorobenzene | 0.154 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 95-47-6 | o-Xylene | 0.077 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 106-46-7 | p-Dichlorobenzene | 0.191 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 109-66-0 | Pentane | 0.138 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 99-87-6 | p-Isopropyltoluene | 0.08 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 115-07-1 | Propylene | 0.142 | 0.5 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 135-98-8 | sec-Butylbenzene | 0.081 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 100-42-5 | Styrene | 0.118 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 98-06-6 | tert-Butylbenzene | 0.083 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 75-65-0 | Tertiary Butyl Alcohol | 0.093 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 109-99-9 | Tetrahydrofuran | 0.09 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 108-88-3 | Toluene | 0.057 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 156-60-5 | trans-1,2-Dichloroethylene | 0.069 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 10061-02-6 | trans-1,3-Dichloropropene | 0.101 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 75-69-4 | Trichlorofluoromethane | 0.036 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | TVHC AS EC | TVHC As Equiv Pentane | 0.136 | 10 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 108-05-4 | Vinyl Acetate | 0.112 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-2F | MDLV : 0.2 | PPBV | 5W | 12/30/21 | 5:36 | GCMS5W | 75-01-4 | Vinyl chloride | 0.069 | 0.2 | 5W | Q-4 | | ppbv |
| TO-15 | JD18443D | STYA | JD18443D-4E | MDLV : 0.1 | PPBV | 2W | 12/30/21 | 4:35 | GCMS2W | 67-63-0 | Isopropyl Alcohol | 0.141 | 0.2 | 2W | Q-4 | | ppbv |

## MS Volatiles

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### QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Initial Calibration RT/ISTD Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

# Method Blank Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2735-MB | 2W61637.D | 1 | 09/28/22 | TCH | n/a | n/a | V2W2735 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-1, JD52620-2

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | ND | 0.20 | 0.15 | ppbv | | ND | 0.48 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | ND | 0.20 | 0.084 | ppbv | | ND | 0.44 | ug/m3 |
| 71-43-2 | Benzene | ND | 0.20 | 0.062 | ppbv | | ND | 0.64 | ug/m3 |
| 75-27-4 | Bromodichloromethane | ND | 0.20 | 0.030 | ppbv | | ND | 1.3 | ug/m3 |
| 75-25-2 | Bromoform | ND | 0.20 | 0.071 | ppbv | | ND | 2.1 | ug/m3 |
| 74-83-9 | Bromomethane | ND | 0.20 | 0.069 | ppbv | | ND | 0.78 | ug/m3 |
| 593-60-2 | Bromoethene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 100-44-7 | Benzyl Chloride | ND | 0.20 | 0.13 | ppbv | | ND | 1.0 | ug/m3 |
| 75-15-0 | Carbon disulfide | ND | 0.20 | 0.045 | ppbv | | ND | 0.62 | ug/m3 |
| 108-90-7 | Chlorobenzene | ND | 0.20 | 0.074 | ppbv | | ND | 0.92 | ug/m3 |
| 75-00-3 | Chloroethane | ND | 0.20 | 0.068 | ppbv | | ND | 0.53 | ug/m3 |
| 67-66-3 | Chloroform | ND | 0.20 | 0.037 | ppbv | | ND | 0.98 | ug/m3 |
| 74-87-3 | Chloromethane | ND | 0.20 | 0.090 | ppbv | | ND | 0.41 | ug/m3 |
| 107-05-1 | 3-Chloropropene | ND | 0.20 | 0.083 | ppbv | | ND | 0.63 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.20 | 0.072 | ppbv | | ND | 1.0 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.20 | 0.040 | ppbv | | ND | 1.3 | ug/m3 |
| 110-82-7 | Cyclohexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.69 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.20 | 0.057 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.20 | 0.059 | ppbv | | ND | 0.79 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | 0.20 | 0.097 | ppbv | | ND | 1.5 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.20 | 0.070 | ppbv | | ND | 0.81 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.20 | 0.062 | ppbv | | ND | 0.92 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | ND | 0.20 | 0.12 | ppbv | | ND | 0.72 | ug/m3 |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.20 | 0.032 | ppbv | | ND | 0.99 | ug/m3 |
| 124-48-1 | Dibromochloromethane | ND | 0.20 | 0.052 | ppbv | | ND | 1.7 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.069 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.79 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.20 | 0.062 | ppbv | | ND | 0.91 | ug/m3 |
| 541-73-1 | m-Dichlorobenzene | ND | 0.20 | 0.040 | ppbv | | ND | 1.2 | ug/m3 |
| 95-50-1 | o-Dichlorobenzene | ND | 0.20 | 0.15 | ppbv | | ND | 1.2 | ug/m3 |
| 106-46-7 | p-Dichlorobenzene | ND | 0.20 | 0.19 | ppbv | | ND | 1.2 | ug/m3 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.20 | 0.10 | ppbv | | ND | 0.91 | ug/m3 |
| 64-17-5 | Ethanol | ND | 0.50 | 0.39 | ppbv | | ND | 0.94 | ug/m3 |
| 100-41-4 | Ethylbenzene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 141-78-6 | Ethyl Acetate | ND | 0.20 | 0.10 | ppbv | | ND | 0.72 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | ND | 0.20 | 0.095 | ppbv | | ND | 0.98 | ug/m3 |

# Method Blank Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2735-MB | 2W61637.D | 1 | 09/28/22 | TCH | n/a | n/a | V2W2735 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-1, JD52620-2

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | 0.20 | 0.031 | ppbv | | ND | 1.5 | ug/m3 |
| 76-14-2 | Freon 114 | ND | 0.20 | 0.050 | ppbv | | ND | 1.4 | ug/m3 |
| 142-82-5 | Heptane | ND | 0.20 | 0.092 | ppbv | | ND | 0.82 | ug/m3 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.20 | 0.062 | ppbv | | ND | 2.1 | ug/m3 |
| 110-54-3 | Hexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| 591-78-6 | 2-Hexanone | ND | 0.20 | 0.15 | ppbv | | ND | 0.82 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | ND | 0.20 | 0.14 | ppbv | | ND | 0.49 | ug/m3 |
| 75-09-2 | Methylene chloride | ND | 0.20 | 0.056 | ppbv | | ND | 0.69 | ug/m3 |
| 78-93-3 | Methyl ethyl ketone | ND | 0.20 | 0.11 | ppbv | | ND | 0.59 | ug/m3 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | 0.20 | 0.073 | ppbv | | ND | 0.82 | ug/m3 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.20 | 0.080 | ppbv | | ND | 0.72 | ug/m3 |
| 80-62-6 | Methylmethacrylate | ND | 0.20 | 0.070 | ppbv | | ND | 0.82 | ug/m3 |
| 115-07-1 | Propylene | ND | 0.50 | 0.14 | ppbv | | ND | 0.86 | ug/m3 |
| 100-42-5 | Styrene | ND | 0.20 | 0.12 | ppbv | | ND | 0.85 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.20 | 0.037 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.20 | 0.038 | ppbv | | ND | 1.1 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.20 | 0.12 | ppbv | | ND | 1.5 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.20 | 0.087 | ppbv | | ND | 0.98 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.20 | 0.080 | ppbv | | ND | 0.98 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | 0.20 | 0.095 | ppbv | | ND | 0.93 | ug/m3 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 0.20 | 0.093 | ppbv | | ND | 0.61 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.040 | 0.014 | ppbv | | ND | 0.27 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | ND | 0.20 | 0.090 | ppbv | | ND | 0.59 | ug/m3 |
| 108-88-3 | Toluene | ND | 0.20 | 0.057 | ppbv | | ND | 0.75 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.20 | 0.036 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.20 | 0.069 | ppbv | | ND | 0.51 | ug/m3 |
| 108-05-4 | Vinyl Acetate | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| | m,p-Xylene | ND | 0.20 | 0.14 | ppbv | | ND | 0.87 | ug/m3 |
| 95-47-6 | o-Xylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |
| 1330-20-7 | Xylenes (total) | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |

# Method Blank Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2735-MB | 2W61637.D | 1 | 09/28/22 | TCH | n/a | n/a | V2W2735 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-1, JD52620-2

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 108% | 65-128% |

# Method Blank Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2736-MB | 2W61657.D | 1 | 09/29/22 | TCH | n/a | n/a | V2W2736 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-3, JD52620-4, JD52620-5, JD52620-6, JD52620-7, JD52620-8, JD52620-9, JD52620-10, JD52620-12, JD52620-13

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | ND | 0.20 | 0.15 | ppbv | | ND | 0.48 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | ND | 0.20 | 0.084 | ppbv | | ND | 0.44 | ug/m3 |
| 71-43-2 | Benzene | ND | 0.20 | 0.062 | ppbv | | ND | 0.64 | ug/m3 |
| 75-27-4 | Bromodichloromethane | ND | 0.20 | 0.030 | ppbv | | ND | 1.3 | ug/m3 |
| 75-25-2 | Bromoform | ND | 0.20 | 0.071 | ppbv | | ND | 2.1 | ug/m3 |
| 74-83-9 | Bromomethane | ND | 0.20 | 0.069 | ppbv | | ND | 0.78 | ug/m3 |
| 593-60-2 | Bromoethene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 100-44-7 | Benzyl Chloride | ND | 0.20 | 0.13 | ppbv | | ND | 1.0 | ug/m3 |
| 75-15-0 | Carbon disulfide | ND | 0.20 | 0.045 | ppbv | | ND | 0.62 | ug/m3 |
| 108-90-7 | Chlorobenzene | ND | 0.20 | 0.074 | ppbv | | ND | 0.92 | ug/m3 |
| 75-00-3 | Chloroethane | ND | 0.20 | 0.068 | ppbv | | ND | 0.53 | ug/m3 |
| 67-66-3 | Chloroform | ND | 0.20 | 0.037 | ppbv | | ND | 0.98 | ug/m3 |
| 74-87-3 | Chloromethane | ND | 0.20 | 0.090 | ppbv | | ND | 0.41 | ug/m3 |
| 107-05-1 | 3-Chloropropene | ND | 0.20 | 0.083 | ppbv | | ND | 0.63 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.20 | 0.072 | ppbv | | ND | 1.0 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.20 | 0.040 | ppbv | | ND | 1.3 | ug/m3 |
| 110-82-7 | Cyclohexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.69 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.20 | 0.057 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.20 | 0.059 | ppbv | | ND | 0.79 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | 0.20 | 0.097 | ppbv | | ND | 1.5 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.20 | 0.070 | ppbv | | ND | 0.81 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.20 | 0.062 | ppbv | | ND | 0.92 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | ND | 0.20 | 0.12 | ppbv | | ND | 0.72 | ug/m3 |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.20 | 0.032 | ppbv | | ND | 0.99 | ug/m3 |
| 124-48-1 | Dibromochloromethane | ND | 0.20 | 0.052 | ppbv | | ND | 1.7 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.069 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.79 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.20 | 0.062 | ppbv | | ND | 0.91 | ug/m3 |
| 541-73-1 | m-Dichlorobenzene | ND | 0.20 | 0.040 | ppbv | | ND | 1.2 | ug/m3 |
| 95-50-1 | o-Dichlorobenzene | ND | 0.20 | 0.15 | ppbv | | ND | 1.2 | ug/m3 |
| 106-46-7 | p-Dichlorobenzene | ND | 0.20 | 0.19 | ppbv | | ND | 1.2 | ug/m3 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.20 | 0.10 | ppbv | | ND | 0.91 | ug/m3 |
| 64-17-5 | Ethanol | ND | 0.50 | 0.39 | ppbv | | ND | 0.94 | ug/m3 |
| 100-41-4 | Ethylbenzene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 141-78-6 | Ethyl Acetate | ND | 0.20 | 0.10 | ppbv | | ND | 0.72 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | ND | 0.20 | 0.095 | ppbv | | ND | 0.98 | ug/m3 |

# Method Blank Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2736-MB | 2W61657.D | 1 | 09/29/22 | TCH | n/a | n/a | V2W2736 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-3, JD52620-4, JD52620-5, JD52620-6, JD52620-7, JD52620-8, JD52620-9, JD52620-10, JD52620-12, JD52620-13

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | 0.20 | 0.031 | ppbv | | ND | 1.5 | ug/m3 |
| 76-14-2 | Freon 114 | ND | 0.20 | 0.050 | ppbv | | ND | 1.4 | ug/m3 |
| 142-82-5 | Heptane | ND | 0.20 | 0.092 | ppbv | | ND | 0.82 | ug/m3 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.20 | 0.062 | ppbv | | ND | 2.1 | ug/m3 |
| 110-54-3 | Hexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| 591-78-6 | 2-Hexanone | ND | 0.20 | 0.15 | ppbv | | ND | 0.82 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | ND | 0.20 | 0.14 | ppbv | | ND | 0.49 | ug/m3 |
| 75-09-2 | Methylene chloride | ND | 0.20 | 0.056 | ppbv | | ND | 0.69 | ug/m3 |
| 78-93-3 | Methyl ethyl ketone | ND | 0.20 | 0.11 | ppbv | | ND | 0.59 | ug/m3 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | 0.20 | 0.073 | ppbv | | ND | 0.82 | ug/m3 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.20 | 0.080 | ppbv | | ND | 0.72 | ug/m3 |
| 80-62-6 | Methylmethacrylate | ND | 0.20 | 0.070 | ppbv | | ND | 0.82 | ug/m3 |
| 115-07-1 | Propylene | ND | 0.50 | 0.14 | ppbv | | ND | 0.86 | ug/m3 |
| 100-42-5 | Styrene | ND | 0.20 | 0.12 | ppbv | | ND | 0.85 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.20 | 0.037 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.20 | 0.038 | ppbv | | ND | 1.1 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.20 | 0.12 | ppbv | | ND | 1.5 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.20 | 0.087 | ppbv | | ND | 0.98 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.20 | 0.080 | ppbv | | ND | 0.98 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | 0.20 | 0.095 | ppbv | | ND | 0.93 | ug/m3 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 0.20 | 0.093 | ppbv | | ND | 0.61 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.040 | 0.014 | ppbv | | ND | 0.27 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | ND | 0.20 | 0.090 | ppbv | | ND | 0.59 | ug/m3 |
| 108-88-3 | Toluene | ND | 0.20 | 0.057 | ppbv | | ND | 0.75 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.20 | 0.036 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.20 | 0.069 | ppbv | | ND | 0.51 | ug/m3 |
| 108-05-4 | Vinyl Acetate | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| | m,p-Xylene | ND | 0.20 | 0.14 | ppbv | | ND | 0.87 | ug/m3 |
| 95-47-6 | o-Xylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |
| 1330-20-7 | Xylenes (total) | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |

# Method Blank Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2736-MB | 2W61657.D | 1 | 09/29/22 | TCH | n/a | n/a | V2W2736 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-3, JD52620-4, JD52620-5, JD52620-6, JD52620-7, JD52620-8, JD52620-9, JD52620-10, JD52620-12, JD52620-13

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 107% | 65-128% |

# Method Blank Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1111-MB | 6W26141.D | 1 | 09/29/22 | TCH | n/a | n/a | V6W1111 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-3, JD52620-5, JD52620-6, JD52620-7, JD52620-8

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.79 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | ug/m3 |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 97% | 65-128% |

# Method Blank Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2737-MB | 2W61689.D | 1 | 09/30/22 | TCH | n/a | n/a | V2W2737 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-9, JD52620-11

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | ND | 0.20 | 0.15 | ppbv | | ND | 0.48 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | ND | 0.20 | 0.084 | ppbv | | ND | 0.44 | ug/m3 |
| 71-43-2 | Benzene | ND | 0.20 | 0.062 | ppbv | | ND | 0.64 | ug/m3 |
| 75-27-4 | Bromodichloromethane | ND | 0.20 | 0.030 | ppbv | | ND | 1.3 | ug/m3 |
| 75-25-2 | Bromoform | ND | 0.20 | 0.071 | ppbv | | ND | 2.1 | ug/m3 |
| 74-83-9 | Bromomethane | ND | 0.20 | 0.069 | ppbv | | ND | 0.78 | ug/m3 |
| 593-60-2 | Bromoethene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 100-44-7 | Benzyl Chloride | ND | 0.20 | 0.13 | ppbv | | ND | 1.0 | ug/m3 |
| 75-15-0 | Carbon disulfide | ND | 0.20 | 0.045 | ppbv | | ND | 0.62 | ug/m3 |
| 108-90-7 | Chlorobenzene | ND | 0.20 | 0.074 | ppbv | | ND | 0.92 | ug/m3 |
| 75-00-3 | Chloroethane | ND | 0.20 | 0.068 | ppbv | | ND | 0.53 | ug/m3 |
| 67-66-3 | Chloroform | ND | 0.20 | 0.037 | ppbv | | ND | 0.98 | ug/m3 |
| 74-87-3 | Chloromethane | ND | 0.20 | 0.090 | ppbv | | ND | 0.41 | ug/m3 |
| 107-05-1 | 3-Chloropropene | ND | 0.20 | 0.083 | ppbv | | ND | 0.63 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.20 | 0.072 | ppbv | | ND | 1.0 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.20 | 0.040 | ppbv | | ND | 1.3 | ug/m3 |
| 110-82-7 | Cyclohexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.69 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.20 | 0.057 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.20 | 0.059 | ppbv | | ND | 0.79 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | 0.20 | 0.097 | ppbv | | ND | 1.5 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.20 | 0.070 | ppbv | | ND | 0.81 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.20 | 0.062 | ppbv | | ND | 0.92 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | ND | 0.20 | 0.12 | ppbv | | ND | 0.72 | ug/m3 |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.20 | 0.032 | ppbv | | ND | 0.99 | ug/m3 |
| 124-48-1 | Dibromochloromethane | ND | 0.20 | 0.052 | ppbv | | ND | 1.7 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.069 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.79 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.20 | 0.062 | ppbv | | ND | 0.91 | ug/m3 |
| 541-73-1 | m-Dichlorobenzene | ND | 0.20 | 0.040 | ppbv | | ND | 1.2 | ug/m3 |
| 95-50-1 | o-Dichlorobenzene | ND | 0.20 | 0.15 | ppbv | | ND | 1.2 | ug/m3 |
| 106-46-7 | p-Dichlorobenzene | ND | 0.20 | 0.19 | ppbv | | ND | 1.2 | ug/m3 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.20 | 0.10 | ppbv | | ND | 0.91 | ug/m3 |
| 64-17-5 | Ethanol | ND | 0.50 | 0.39 | ppbv | | ND | 0.94 | ug/m3 |
| 100-41-4 | Ethylbenzene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 141-78-6 | Ethyl Acetate | ND | 0.20 | 0.10 | ppbv | | ND | 0.72 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | ND | 0.20 | 0.095 | ppbv | | ND | 0.98 | ug/m3 |

# Method Blank Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2737-MB | 2W61689.D | 1 | 09/30/22 | TCH | n/a | n/a | V2W2737 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-9, JD52620-11

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | 0.20 | 0.031 | ppbv | | ND | 1.5 | ug/m3 |
| 76-14-2 | Freon 114 | ND | 0.20 | 0.050 | ppbv | | ND | 1.4 | ug/m3 |
| 142-82-5 | Heptane | ND | 0.20 | 0.092 | ppbv | | ND | 0.82 | ug/m3 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.20 | 0.062 | ppbv | | ND | 2.1 | ug/m3 |
| 110-54-3 | Hexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| 591-78-6 | 2-Hexanone | ND | 0.20 | 0.15 | ppbv | | ND | 0.82 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | ND | 0.20 | 0.14 | ppbv | | ND | 0.49 | ug/m3 |
| 75-09-2 | Methylene chloride | ND | 0.20 | 0.056 | ppbv | | ND | 0.69 | ug/m3 |
| 78-93-3 | Methyl ethyl ketone | ND | 0.20 | 0.11 | ppbv | | ND | 0.59 | ug/m3 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | 0.20 | 0.073 | ppbv | | ND | 0.82 | ug/m3 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.20 | 0.080 | ppbv | | ND | 0.72 | ug/m3 |
| 80-62-6 | Methylmethacrylate | ND | 0.20 | 0.070 | ppbv | | ND | 0.82 | ug/m3 |
| 115-07-1 | Propylene | ND | 0.50 | 0.14 | ppbv | | ND | 0.86 | ug/m3 |
| 100-42-5 | Styrene | ND | 0.20 | 0.12 | ppbv | | ND | 0.85 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.20 | 0.037 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.20 | 0.038 | ppbv | | ND | 1.1 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.20 | 0.12 | ppbv | | ND | 1.5 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.20 | 0.087 | ppbv | | ND | 0.98 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.20 | 0.080 | ppbv | | ND | 0.98 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | 0.20 | 0.095 | ppbv | | ND | 0.93 | ug/m3 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 0.20 | 0.093 | ppbv | | ND | 0.61 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.040 | 0.014 | ppbv | | ND | 0.27 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | ND | 0.20 | 0.090 | ppbv | | ND | 0.59 | ug/m3 |
| 108-88-3 | Toluene | ND | 0.20 | 0.057 | ppbv | | ND | 0.75 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.20 | 0.036 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.20 | 0.069 | ppbv | | ND | 0.51 | ug/m3 |
| 108-05-4 | Vinyl Acetate | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| | m,p-Xylene | ND | 0.20 | 0.14 | ppbv | | ND | 0.87 | ug/m3 |
| 95-47-6 | o-Xylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |
| 1330-20-7 | Xylenes (total) | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |

# Method Blank Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2737-MB | 2W61689.D | 1 | 09/30/22 | TCH | n/a | n/a | V2W2737 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-9, JD52620-11

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 106% | 65-128% |

# Method Blank Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2637-MB | 2W59302.D | 1 | 05/14/22 | TCH | n/a | n/a | V2W2637 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2637-SCC

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | ND | 0.20 | 0.15 | ppbv | | ND | 0.48 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | ND | 0.20 | 0.084 | ppbv | | ND | 0.44 | ug/m3 |
| 71-43-2 | Benzene | ND | 0.20 | 0.062 | ppbv | | ND | 0.64 | ug/m3 |
| 75-27-4 | Bromodichloromethane | ND | 0.20 | 0.030 | ppbv | | ND | 1.3 | ug/m3 |
| 75-25-2 | Bromoform | ND | 0.20 | 0.071 | ppbv | | ND | 2.1 | ug/m3 |
| 74-83-9 | Bromomethane | ND | 0.20 | 0.069 | ppbv | | ND | 0.78 | ug/m3 |
| 593-60-2 | Bromoethene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 100-44-7 | Benzyl Chloride | ND | 0.20 | 0.13 | ppbv | | ND | 1.0 | ug/m3 |
| 75-15-0 | Carbon disulfide | ND | 0.20 | 0.045 | ppbv | | ND | 0.62 | ug/m3 |
| 108-90-7 | Chlorobenzene | ND | 0.20 | 0.074 | ppbv | | ND | 0.92 | ug/m3 |
| 75-00-3 | Chloroethane | ND | 0.20 | 0.068 | ppbv | | ND | 0.53 | ug/m3 |
| 67-66-3 | Chloroform | ND | 0.20 | 0.037 | ppbv | | ND | 0.98 | ug/m3 |
| 74-87-3 | Chloromethane | ND | 0.20 | 0.090 | ppbv | | ND | 0.41 | ug/m3 |
| 107-05-1 | 3-Chloropropene | ND | 0.20 | 0.083 | ppbv | | ND | 0.63 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.20 | 0.072 | ppbv | | ND | 1.0 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.20 | 0.040 | ppbv | | ND | 1.3 | ug/m3 |
| 110-82-7 | Cyclohexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.69 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.20 | 0.057 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.20 | 0.059 | ppbv | | ND | 0.79 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | 0.20 | 0.097 | ppbv | | ND | 1.5 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.20 | 0.070 | ppbv | | ND | 0.81 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.20 | 0.062 | ppbv | | ND | 0.92 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | ND | 0.20 | 0.12 | ppbv | | ND | 0.72 | ug/m3 |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.20 | 0.032 | ppbv | | ND | 0.99 | ug/m3 |
| 124-48-1 | Dibromochloromethane | ND | 0.20 | 0.052 | ppbv | | ND | 1.7 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.069 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.79 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.20 | 0.062 | ppbv | | ND | 0.91 | ug/m3 |
| 541-73-1 | m-Dichlorobenzene | ND | 0.20 | 0.040 | ppbv | | ND | 1.2 | ug/m3 |
| 95-50-1 | o-Dichlorobenzene | ND | 0.20 | 0.15 | ppbv | | ND | 1.2 | ug/m3 |
| 106-46-7 | p-Dichlorobenzene | ND | 0.20 | 0.19 | ppbv | | ND | 1.2 | ug/m3 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.20 | 0.10 | ppbv | | ND | 0.91 | ug/m3 |
| 64-17-5 | Ethanol | ND | 0.50 | 0.39 | ppbv | | ND | 0.94 | ug/m3 |
| 100-41-4 | Ethylbenzene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 141-78-6 | Ethyl Acetate | ND | 0.20 | 0.10 | ppbv | | ND | 0.72 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | ND | 0.20 | 0.095 | ppbv | | ND | 0.98 | ug/m3 |

# Method Blank Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2637-MB | 2W59302.D | 1 | 05/14/22 | TCH | n/a | n/a | V2W2637 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2637-SCC

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | 0.20 | 0.031 | ppbv | | ND | 1.5 | ug/m3 |
| 76-14-2 | Freon 114 | ND | 0.20 | 0.050 | ppbv | | ND | 1.4 | ug/m3 |
| 142-82-5 | Heptane | ND | 0.20 | 0.092 | ppbv | | ND | 0.82 | ug/m3 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.20 | 0.062 | ppbv | | ND | 2.1 | ug/m3 |
| 110-54-3 | Hexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| 591-78-6 | 2-Hexanone | ND | 0.20 | 0.15 | ppbv | | ND | 0.82 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | ND | 0.20 | 0.14 | ppbv | | ND | 0.49 | ug/m3 |
| 75-09-2 | Methylene chloride | ND | 0.20 | 0.056 | ppbv | | ND | 0.69 | ug/m3 |
| 78-93-3 | Methyl ethyl ketone | ND | 0.20 | 0.11 | ppbv | | ND | 0.59 | ug/m3 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | 0.20 | 0.073 | ppbv | | ND | 0.82 | ug/m3 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.20 | 0.080 | ppbv | | ND | 0.72 | ug/m3 |
| 80-62-6 | Methylmethacrylate | ND | 0.20 | 0.070 | ppbv | | ND | 0.82 | ug/m3 |
| 115-07-1 | Propylene | ND | 0.50 | 0.14 | ppbv | | ND | 0.86 | ug/m3 |
| 100-42-5 | Styrene | ND | 0.20 | 0.12 | ppbv | | ND | 0.85 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.20 | 0.037 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.20 | 0.038 | ppbv | | ND | 1.1 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.20 | 0.12 | ppbv | | ND | 1.5 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.20 | 0.087 | ppbv | | ND | 0.98 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.20 | 0.080 | ppbv | | ND | 0.98 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | 0.20 | 0.095 | ppbv | | ND | 0.93 | ug/m3 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 0.20 | 0.093 | ppbv | | ND | 0.61 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.040 | 0.014 | ppbv | | ND | 0.27 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | ND | 0.20 | 0.090 | ppbv | | ND | 0.59 | ug/m3 |
| 108-88-3 | Toluene | ND | 0.20 | 0.057 | ppbv | | ND | 0.75 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.20 | 0.036 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.20 | 0.069 | ppbv | | ND | 0.51 | ug/m3 |
| 108-05-4 | Vinyl Acetate | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| | m,p-Xylene | ND | 0.20 | 0.14 | ppbv | | ND | 0.87 | ug/m3 |
| 95-47-6 | o-Xylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |
| 1330-20-7 | Xylenes (total) | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |

# Method Blank Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2637-MB | 2W59302.D | 1 | 05/14/22 | TCH | n/a | n/a | V2W2637 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2637-SCC

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 97% | 65-128% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| 124-38-9 | Carbon dioxide | 1.78 | 11 | ppbv | JN |
| | Total TIC, Volatile | | 0 | ppbv | |

# Method Blank Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2710-MB | 2W61028.D | 1 | 08/24/22 | TCH | n/a | n/a | V2W2710 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2710-SCC

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | ND | 0.20 | 0.15 | ppbv | | ND | 0.48 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | ND | 0.20 | 0.084 | ppbv | | ND | 0.44 | ug/m3 |
| 71-43-2 | Benzene | ND | 0.20 | 0.062 | ppbv | | ND | 0.64 | ug/m3 |
| 75-27-4 | Bromodichloromethane | ND | 0.20 | 0.030 | ppbv | | ND | 1.3 | ug/m3 |
| 75-25-2 | Bromoform | ND | 0.20 | 0.071 | ppbv | | ND | 2.1 | ug/m3 |
| 74-83-9 | Bromomethane | ND | 0.20 | 0.069 | ppbv | | ND | 0.78 | ug/m3 |
| 593-60-2 | Bromoethene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 100-44-7 | Benzyl Chloride | ND | 0.20 | 0.13 | ppbv | | ND | 1.0 | ug/m3 |
| 75-15-0 | Carbon disulfide | ND | 0.20 | 0.045 | ppbv | | ND | 0.62 | ug/m3 |
| 108-90-7 | Chlorobenzene | ND | 0.20 | 0.074 | ppbv | | ND | 0.92 | ug/m3 |
| 75-00-3 | Chloroethane | ND | 0.20 | 0.068 | ppbv | | ND | 0.53 | ug/m3 |
| 67-66-3 | Chloroform | ND | 0.20 | 0.037 | ppbv | | ND | 0.98 | ug/m3 |
| 74-87-3 | Chloromethane | ND | 0.20 | 0.090 | ppbv | | ND | 0.41 | ug/m3 |
| 107-05-1 | 3-Chloropropene | ND | 0.20 | 0.083 | ppbv | | ND | 0.63 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.20 | 0.072 | ppbv | | ND | 1.0 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.20 | 0.040 | ppbv | | ND | 1.3 | ug/m3 |
| 110-82-7 | Cyclohexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.69 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.20 | 0.057 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.20 | 0.059 | ppbv | | ND | 0.79 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | 0.20 | 0.097 | ppbv | | ND | 1.5 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.20 | 0.070 | ppbv | | ND | 0.81 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.20 | 0.062 | ppbv | | ND | 0.92 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | ND | 0.20 | 0.12 | ppbv | | ND | 0.72 | ug/m3 |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.20 | 0.032 | ppbv | | ND | 0.99 | ug/m3 |
| 124-48-1 | Dibromochloromethane | ND | 0.20 | 0.052 | ppbv | | ND | 1.7 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.069 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.79 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.20 | 0.062 | ppbv | | ND | 0.91 | ug/m3 |
| 541-73-1 | m-Dichlorobenzene | ND | 0.20 | 0.040 | ppbv | | ND | 1.2 | ug/m3 |
| 95-50-1 | o-Dichlorobenzene | ND | 0.20 | 0.15 | ppbv | | ND | 1.2 | ug/m3 |
| 106-46-7 | p-Dichlorobenzene | ND | 0.20 | 0.19 | ppbv | | ND | 1.2 | ug/m3 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.20 | 0.10 | ppbv | | ND | 0.91 | ug/m3 |
| 64-17-5 | Ethanol | ND | 0.50 | 0.39 | ppbv | | ND | 0.94 | ug/m3 |
| 100-41-4 | Ethylbenzene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 141-78-6 | Ethyl Acetate | ND | 0.20 | 0.10 | ppbv | | ND | 0.72 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | ND | 0.20 | 0.095 | ppbv | | ND | 0.98 | ug/m3 |

# Method Blank Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2710-MB | 2W61028.D | 1 | 08/24/22 | TCH | n/a | n/a | V2W2710 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2710-SCC

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | 0.20 | 0.031 | ppbv | | ND | 1.5 | ug/m3 |
| 76-14-2 | Freon 114 | ND | 0.20 | 0.050 | ppbv | | ND | 1.4 | ug/m3 |
| 142-82-5 | Heptane | ND | 0.20 | 0.092 | ppbv | | ND | 0.82 | ug/m3 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.20 | 0.062 | ppbv | | ND | 2.1 | ug/m3 |
| 110-54-3 | Hexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| 591-78-6 | 2-Hexanone | ND | 0.20 | 0.15 | ppbv | | ND | 0.82 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | ND | 0.20 | 0.14 | ppbv | | ND | 0.49 | ug/m3 |
| 75-09-2 | Methylene chloride | ND | 0.20 | 0.056 | ppbv | | ND | 0.69 | ug/m3 |
| 78-93-3 | Methyl ethyl ketone | ND | 0.20 | 0.11 | ppbv | | ND | 0.59 | ug/m3 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | 0.20 | 0.073 | ppbv | | ND | 0.82 | ug/m3 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.20 | 0.080 | ppbv | | ND | 0.72 | ug/m3 |
| 80-62-6 | Methylmethacrylate | ND | 0.20 | 0.070 | ppbv | | ND | 0.82 | ug/m3 |
| 115-07-1 | Propylene | ND | 0.50 | 0.14 | ppbv | | ND | 0.86 | ug/m3 |
| 100-42-5 | Styrene | ND | 0.20 | 0.12 | ppbv | | ND | 0.85 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.20 | 0.037 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.20 | 0.038 | ppbv | | ND | 1.1 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.20 | 0.12 | ppbv | | ND | 1.5 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.20 | 0.087 | ppbv | | ND | 0.98 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.20 | 0.080 | ppbv | | ND | 0.98 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | 0.20 | 0.095 | ppbv | | ND | 0.93 | ug/m3 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 0.20 | 0.093 | ppbv | | ND | 0.61 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.040 | 0.014 | ppbv | | ND | 0.27 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | ND | 0.20 | 0.090 | ppbv | | ND | 0.59 | ug/m3 |
| 108-88-3 | Toluene | ND | 0.20 | 0.057 | ppbv | | ND | 0.75 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.20 | 0.036 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.20 | 0.069 | ppbv | | ND | 0.51 | ug/m3 |
| 108-05-4 | Vinyl Acetate | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| | m,p-Xylene | ND | 0.20 | 0.14 | ppbv | | ND | 0.87 | ug/m3 |
| 95-47-6 | o-Xylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |
| 1330-20-7 | Xylenes (total) | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |

# Method Blank Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2710-MB | 2W61028.D | 1 | 08/24/22 | TCH | n/a | n/a | V2W2710 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2710-SCC

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 97% | 65-128% |

# Method Blank Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2714-MB | 2W61144.D | 1 | 08/30/22 | WC | n/a | n/a | V2W2714 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2714-SCC

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | ND | 0.20 | 0.15 | ppbv | | ND | 0.48 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | ND | 0.20 | 0.084 | ppbv | | ND | 0.44 | ug/m3 |
| 71-43-2 | Benzene | ND | 0.20 | 0.062 | ppbv | | ND | 0.64 | ug/m3 |
| 75-27-4 | Bromodichloromethane | ND | 0.20 | 0.030 | ppbv | | ND | 1.3 | ug/m3 |
| 75-25-2 | Bromoform | ND | 0.20 | 0.071 | ppbv | | ND | 2.1 | ug/m3 |
| 74-83-9 | Bromomethane | ND | 0.20 | 0.069 | ppbv | | ND | 0.78 | ug/m3 |
| 593-60-2 | Bromoethene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 100-44-7 | Benzyl Chloride | ND | 0.20 | 0.13 | ppbv | | ND | 1.0 | ug/m3 |
| 75-15-0 | Carbon disulfide | ND | 0.20 | 0.045 | ppbv | | ND | 0.62 | ug/m3 |
| 108-90-7 | Chlorobenzene | ND | 0.20 | 0.074 | ppbv | | ND | 0.92 | ug/m3 |
| 75-00-3 | Chloroethane | ND | 0.20 | 0.068 | ppbv | | ND | 0.53 | ug/m3 |
| 67-66-3 | Chloroform | ND | 0.20 | 0.037 | ppbv | | ND | 0.98 | ug/m3 |
| 74-87-3 | Chloromethane | ND | 0.20 | 0.090 | ppbv | | ND | 0.41 | ug/m3 |
| 107-05-1 | 3-Chloropropene | ND | 0.20 | 0.083 | ppbv | | ND | 0.63 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.20 | 0.072 | ppbv | | ND | 1.0 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.20 | 0.040 | ppbv | | ND | 1.3 | ug/m3 |
| 110-82-7 | Cyclohexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.69 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.20 | 0.057 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.20 | 0.059 | ppbv | | ND | 0.79 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | 0.20 | 0.097 | ppbv | | ND | 1.5 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.20 | 0.070 | ppbv | | ND | 0.81 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.20 | 0.062 | ppbv | | ND | 0.92 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | ND | 0.20 | 0.12 | ppbv | | ND | 0.72 | ug/m3 |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.20 | 0.032 | ppbv | | ND | 0.99 | ug/m3 |
| 124-48-1 | Dibromochloromethane | ND | 0.20 | 0.052 | ppbv | | ND | 1.7 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.069 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.79 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.20 | 0.062 | ppbv | | ND | 0.91 | ug/m3 |
| 541-73-1 | m-Dichlorobenzene | ND | 0.20 | 0.040 | ppbv | | ND | 1.2 | ug/m3 |
| 95-50-1 | o-Dichlorobenzene | ND | 0.20 | 0.15 | ppbv | | ND | 1.2 | ug/m3 |
| 106-46-7 | p-Dichlorobenzene | ND | 0.20 | 0.19 | ppbv | | ND | 1.2 | ug/m3 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.20 | 0.10 | ppbv | | ND | 0.91 | ug/m3 |
| 64-17-5 | Ethanol | ND | 0.50 | 0.39 | ppbv | | ND | 0.94 | ug/m3 |
| 100-41-4 | Ethylbenzene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 141-78-6 | Ethyl Acetate | ND | 0.20 | 0.10 | ppbv | | ND | 0.72 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | ND | 0.20 | 0.095 | ppbv | | ND | 0.98 | ug/m3 |

# Method Blank Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2714-MB | 2W61144.D | 1 | 08/30/22 | WC | n/a | n/a | V2W2714 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2714-SCC

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | 0.20 | 0.031 | ppbv | | ND | 1.5 | ug/m3 |
| 76-14-2 | Freon 114 | ND | 0.20 | 0.050 | ppbv | | ND | 1.4 | ug/m3 |
| 142-82-5 | Heptane | ND | 0.20 | 0.092 | ppbv | | ND | 0.82 | ug/m3 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.20 | 0.062 | ppbv | | ND | 2.1 | ug/m3 |
| 110-54-3 | Hexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| 591-78-6 | 2-Hexanone | ND | 0.20 | 0.15 | ppbv | | ND | 0.82 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | ND | 0.20 | 0.14 | ppbv | | ND | 0.49 | ug/m3 |
| 75-09-2 | Methylene chloride | ND | 0.20 | 0.056 | ppbv | | ND | 0.69 | ug/m3 |
| 78-93-3 | Methyl ethyl ketone | ND | 0.20 | 0.11 | ppbv | | ND | 0.59 | ug/m3 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | 0.20 | 0.073 | ppbv | | ND | 0.82 | ug/m3 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.20 | 0.080 | ppbv | | ND | 0.72 | ug/m3 |
| 80-62-6 | Methylmethacrylate | ND | 0.20 | 0.070 | ppbv | | ND | 0.82 | ug/m3 |
| 115-07-1 | Propylene | ND | 0.50 | 0.14 | ppbv | | ND | 0.86 | ug/m3 |
| 100-42-5 | Styrene | ND | 0.20 | 0.12 | ppbv | | ND | 0.85 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.20 | 0.037 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.20 | 0.038 | ppbv | | ND | 1.1 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.20 | 0.12 | ppbv | | ND | 1.5 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.20 | 0.087 | ppbv | | ND | 0.98 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.20 | 0.080 | ppbv | | ND | 0.98 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | 0.20 | 0.095 | ppbv | | ND | 0.93 | ug/m3 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 0.20 | 0.093 | ppbv | | ND | 0.61 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.040 | 0.014 | ppbv | | ND | 0.27 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | ND | 0.20 | 0.090 | ppbv | | ND | 0.59 | ug/m3 |
| 108-88-3 | Toluene | ND | 0.20 | 0.057 | ppbv | | ND | 0.75 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.20 | 0.036 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.20 | 0.069 | ppbv | | ND | 0.51 | ug/m3 |
| 108-05-4 | Vinyl Acetate | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| | m,p-Xylene | ND | 0.20 | 0.14 | ppbv | | ND | 0.87 | ug/m3 |
| 95-47-6 | o-Xylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |
| 1330-20-7 | Xylenes (total) | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |

# Method Blank Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2714-MB | 2W61144.D | 1 | 08/30/22 | WC | n/a | n/a | V2W2714 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2714-SCC

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 95% | 65-128% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| 124-38-9 | Carbon dioxide | 1.79 | 12 | ppbv | JN |
| | Total TIC, Volatile | | 0 | ppbv | |

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2735-BS | 2W61634.D | 1 | 09/28/22 | TCH | n/a | n/a | V2W2735 |
| V2W2735-BSD | 2W61635.D | 1 | 09/28/22 | TCH | n/a | n/a | V2W2735 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-1, JD52620-2

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | 10 | 8.3 | 83 | 8.1 | 81 | 2 | 70-130/30 |
| 106-99-0 | 1,3-Butadiene | 10 | 9.2 | 92 | 9.4 | 94 | 2 | 70-130/30 |
| 71-43-2 | Benzene | 10 | 9.8 | 98 | 9.9 | 99 | 1 | 70-130/30 |
| 75-27-4 | Bromodichloromethane | 10 | 10.9 | 109 | 10.6 | 106 | 3 | 70-130/30 |
| 75-25-2 | Bromoform | 10 | 12.2 | 122 | 11.9 | 119 | 2 | 70-130/30 |
| 74-83-9 | Bromomethane | 10 | 10.1 | 101 | 10.1 | 101 | 0 | 70-130/30 |
| 593-60-2 | Bromoethene | 10 | 10.3 | 103 | 10.2 | 102 | 1 | 70-130/30 |
| 100-44-7 | Benzyl Chloride | 10 | 8.8 | 88 | 8.7 | 87 | 1 | 70-130/30 |
| 75-15-0 | Carbon disulfide | 10 | 11.8 | 118 | 11.6 | 116 | 2 | 70-130/30 |
| 108-90-7 | Chlorobenzene | 10 | 10.5 | 105 | 10.4 | 104 | 1 | 70-130/30 |
| 75-00-3 | Chloroethane | 10 | 11.1 | 111 | 11.0 | 110 | 1 | 70-130/30 |
| 67-66-3 | Chloroform | 10 | 10.2 | 102 | 10.1 | 101 | 1 | 70-130/30 |
| 74-87-3 | Chloromethane | 10 | 8.6 | 86 | 8.7 | 87 | 1 | 70-130/30 |
| 107-05-1 | 3-Chloropropene | 10 | 10.7 | 107 | 10.8 | 108 | 1 | 70-130/30 |
| 95-49-8 | 2-Chlorotoluene | 10 | 10.6 | 106 | 10.3 | 103 | 3 | 70-130/30 |
| 56-23-5 | Carbon tetrachloride | 10 | 9.6 | 96 | 9.8 | 98 | 2 | 70-130/30 |
| 110-82-7 | Cyclohexane | 10 | 10.4 | 104 | 10.2 | 102 | 2 | 70-130/30 |
| 75-34-3 | 1,1-Dichloroethane | 10 | 10.8 | 108 | 10.5 | 105 | 3 | 70-130/30 |
| 75-35-4 | 1,1-Dichloroethylene | 10 | 11.4 | 114 | 11.2 | 112 | 2 | 70-130/30 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | 10 | 10.4 | 104 | 10.2 | 102 | 2 | 70-130/30 |
| 107-06-2 | 1,2-Dichloroethane | 10 | 10.2 | 102 | 10.2 | 102 | 0 | 70-130/30 |
| 78-87-5 | 1,2-Dichloropropane | 10 | 10.9 | 109 | 10.6 | 106 | 3 | 70-130/30 |
| 123-91-1 | 1,4-Dioxane | 10 | 11.3 | 113 | 11.2 | 112 | 1 | 70-130/30 |
| 75-71-8 | Dichlorodifluoromethane | 10 | 9.6 | 96 | 9.5 | 95 | 1 | 70-130/30 |
| 124-48-1 | Dibromochloromethane | 10 | 10.8 | 108 | 10.6 | 106 | 2 | 70-130/30 |
| 156-60-5 | trans-1,2-Dichloroethylene | 10 | 10.1 | 101 | 10.2 | 102 | 1 | 70-130/30 |
| 156-59-2 | cis-1,2-Dichloroethylene | 10 | 9.8 | 98 | 9.9 | 99 | 1 | 70-130/30 |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | 10.4 | 104 | 10.2 | 102 | 2 | 70-130/30 |
| 541-73-1 | m-Dichlorobenzene | 10 | 10.9 | 109 | 10.7 | 107 | 2 | 70-130/30 |
| 95-50-1 | o-Dichlorobenzene | 10 | 10.8 | 108 | 10.6 | 106 | 2 | 70-130/30 |
| 106-46-7 | p-Dichlorobenzene | 10 | 11.0 | 110 | 10.6 | 106 | 4 | 70-130/30 |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | 9.9 | 99 | 9.8 | 98 | 1 | 70-130/30 |
| 64-17-5 | Ethanol | 10 | 7.4 | 74 | 7.2 | 72 | 3 | 70-130/30 |
| 100-41-4 | Ethylbenzene | 10 | 10.8 | 108 | 10.7 | 107 | 1 | 70-130/30 |
| 141-78-6 | Ethyl Acetate | 10 | 10.4 | 104 | 10.7 | 107 | 3 | 70-130/30 |
| 622-96-8 | 4-Ethyltoluene | 10 | 11.1 | 111 | 10.8 | 108 | 3 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2735-BS | 2W61634.D | 1 | 09/28/22 | TCH | n/a | n/a | V2W2735 |
| V2W2735-BSD | 2W61635.D | 1 | 09/28/22 | TCH | n/a | n/a | V2W2735 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-1, JD52620-2

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | 10 | 10.7 | 107 | 10.6 | 106 | 1 | 70-130/30 |
| 76-14-2 | Freon 114 | 10 | 10 | 100 | 9.9 | 99 | 1 | 70-130/30 |
| 142-82-5 | Heptane | 10 | 8.7 | 87 | 8.6 | 86 | 1 | 70-130/30 |
| 87-68-3 | Hexachlorobutadiene | 10 | 10.6 | 106 | 10.6 | 106 | 0 | 70-130/30 |
| 110-54-3 | Hexane | 10 | 9.8 | 98 | 10 | 100 | 2 | 70-130/30 |
| 591-78-6 | 2-Hexanone | 10 | 11.3 | 113 | 11.0 | 110 | 3 | 70-130/30 |
| 67-63-0 | Isopropyl Alcohol | 10 | 9.2 | 92 | 9.2 | 92 | 0 | 70-130/30 |
| 75-09-2 | Methylene chloride | 10 | 10 | 100 | 9.8 | 98 | 2 | 70-130/30 |
| 78-93-3 | Methyl ethyl ketone | 10 | 10.7 | 107 | 10.6 | 106 | 1 | 70-130/30 |
| 108-10-1 | Methyl Isobutyl Ketone | 10 | 12.0 | 120 | 11.8 | 118 | 2 | 70-130/30 |
| 1634-04-4 | Methyl Tert Butyl Ether | 10 | 8.9 | 89 | 8.9 | 89 | 0 | 70-130/30 |
| 80-62-6 | Methylmethacrylate | 10 | 11.0 | 110 | 10.8 | 108 | 2 | 70-130/30 |
| 115-07-1 | Propylene | 10 | 8.0 | 80 | 8.0 | 80 | 0 | 70-130/30 |
| 100-42-5 | Styrene | 10 | 11.7 | 117 | 11.4 | 114 | 3 | 70-130/30 |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | 9.5 | 95 | 9.7 | 97 | 2 | 70-130/30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | 11.5 | 115 | 11.3 | 113 | 2 | 70-130/30 |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | 10.5 | 105 | 10.3 | 103 | 2 | 70-130/30 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | 11.1 | 111 | 11.2 | 112 | 1 | 70-130/30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 10 | 11.1 | 111 | 10.8 | 108 | 3 | 70-130/30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10 | 11.0 | 110 | 10.7 | 107 | 3 | 70-130/30 |
| 540-84-1 | 2,2,4-Trimethylpentane | 10 | 10.0 | 100 | 9.8 | 98 | 2 | 70-130/30 |
| 75-65-0 | Tertiary Butyl Alcohol | 10 | 9.6 | 96 | 9.7 | 97 | 1 | 70-130/30 |
| 127-18-4 | Tetrachloroethylene | 10 | 9.8 | 98 | 9.6 | 96 | 2 | 70-130/30 |
| 109-99-9 | Tetrahydrofuran | 10 | 10.4 | 104 | 10.8 | 108 | 4 | 70-130/30 |
| 108-88-3 | Toluene | 10 | 10.0 | 100 | 9.8 | 98 | 2 | 70-130/30 |
| 79-01-6 | Trichloroethylene | 10 | 10.7 | 107 | 10.5 | 105 | 2 | 70-130/30 |
| 75-69-4 | Trichlorofluoromethane | 10 | 10.5 | 105 | 10.3 | 103 | 2 | 70-130/30 |
| 75-01-4 | Vinyl chloride | 10 | 10.7 | 107 | 11.0 | 110 | 3 | 70-130/30 |
| 108-05-4 | Vinyl Acetate | 10 | 10.4 | 104 | 10.6 | 106 | 2 | 70-130/30 |
| | m,p-Xylene | 20 | 22.0 | 110 | 21.7 | 109 | 1 | 70-130/30 |
| 95-47-6 | o-Xylene | 10 | 11.0 | 110 | 10.8 | 108 | 2 | 70-130/30 |
| 1330-20-7 | Xylenes (total) | 30 | 33.0 | 110 | 32.5 | 108 | 2 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2735-BS | 2W61634.D | 1 | 09/28/22 | TCH | n/a | n/a | V2W2735 |
| V2W2735-BSD | 2W61635.D | 1 | 09/28/22 | TCH | n/a | n/a | V2W2735 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-1, JD52620-2

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 112% | 111% | 65-128% |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2736-BS | 2W61654.D | 1 | 09/29/22 | TCH | n/a | n/a | V2W2736 |
| V2W2736-BSD | 2W61655.D | 1 | 09/29/22 | TCH | n/a | n/a | V2W2736 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-3, JD52620-4, JD52620-5, JD52620-6, JD52620-7, JD52620-8, JD52620-9, JD52620-10, JD52620-12, JD52620-13

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | 10 | 9.0 | 90 | 8.6 | 86 | 5 | 70-130/30 |
| 106-99-0 | 1,3-Butadiene | 10 | 10.1 | 101 | 9.7 | 97 | 4 | 70-130/30 |
| 71-43-2 | Benzene | 10 | 10.3 | 103 | 10.2 | 102 | 1 | 70-130/30 |
| 75-27-4 | Bromodichloromethane | 10 | 11.4 | 114 | 11.1 | 111 | 3 | 70-130/30 |
| 75-25-2 | Bromoform | 10 | 12.8 | 128 | 12.3 | 123 | 4 | 70-130/30 |
| 74-83-9 | Bromomethane | 10 | 10.6 | 106 | 10.4 | 104 | 2 | 70-130/30 |
| 593-60-2 | Bromoethene | 10 | 11.0 | 110 | 10.6 | 106 | 4 | 70-130/30 |
| 100-44-7 | Benzyl Chloride | 10 | 9.3 | 93 | 9.1 | 91 | 2 | 70-130/30 |
| 75-15-0 | Carbon disulfide | 10 | 12.6 | 126 | 12.2 | 122 | 3 | 70-130/30 |
| 108-90-7 | Chlorobenzene | 10 | 11.1 | 111 | 10.8 | 108 | 3 | 70-130/30 |
| 75-00-3 | Chloroethane | 10 | 11.7 | 117 | 11.6 | 116 | 1 | 70-130/30 |
| 67-66-3 | Chloroform | 10 | 10.8 | 108 | 10.5 | 105 | 3 | 70-130/30 |
| 74-87-3 | Chloromethane | 10 | 9.2 | 92 | 9.2 | 92 | 0 | 70-130/30 |
| 107-05-1 | 3-Chloropropene | 10 | 11.3 | 113 | 11.1 | 111 | 2 | 70-130/30 |
| 95-49-8 | 2-Chlorotoluene | 10 | 11.0 | 110 | 10.7 | 107 | 3 | 70-130/30 |
| 56-23-5 | Carbon tetrachloride | 10 | 10.2 | 102 | 10.0 | 100 | 2 | 70-130/30 |
| 110-82-7 | Cyclohexane | 10 | 10.8 | 108 | 10.6 | 106 | 2 | 70-130/30 |
| 75-34-3 | 1,1-Dichloroethane | 10 | 11.3 | 113 | 11.0 | 110 | 3 | 70-130/30 |
| 75-35-4 | 1,1-Dichloroethylene | 10 | 12.0 | 120 | 11.8 | 118 | 2 | 70-130/30 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | 10 | 10.8 | 108 | 10.7 | 107 | 1 | 70-130/30 |
| 107-06-2 | 1,2-Dichloroethane | 10 | 10.8 | 108 | 10.7 | 107 | 1 | 70-130/30 |
| 78-87-5 | 1,2-Dichloropropane | 10 | 11.3 | 113 | 11.2 | 112 | 1 | 70-130/30 |
| 123-91-1 | 1,4-Dioxane | 10 | 11.6 | 116 | 11.6 | 116 | 0 | 70-130/30 |
| 75-71-8 | Dichlorodifluoromethane | 10 | 10.3 | 103 | 10.0 | 100 | 3 | 70-130/30 |
| 124-48-1 | Dibromochloromethane | 10 | 11.3 | 113 | 11.1 | 111 | 2 | 70-130/30 |
| 156-60-5 | trans-1,2-Dichloroethylene | 10 | 11.0 | 110 | 10.7 | 107 | 3 | 70-130/30 |
| 156-59-2 | cis-1,2-Dichloroethylene | 10 | 10.5 | 105 | 10.4 | 104 | 1 | 70-130/30 |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | 10.7 | 107 | 10.7 | 107 | 0 | 70-130/30 |
| 541-73-1 | m-Dichlorobenzene | 10 | 11.4 | 114 | 11.1 | 111 | 3 | 70-130/30 |
| 95-50-1 | o-Dichlorobenzene | 10 | 11.4 | 114 | 11.0 | 110 | 4 | 70-130/30 |
| 106-46-7 | p-Dichlorobenzene | 10 | 11.5 | 115 | 11.0 | 110 | 4 | 70-130/30 |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | 10.1 | 101 | 10.2 | 102 | 1 | 70-130/30 |
| 64-17-5 | Ethanol | 10 | 7.9 | 79 | 7.7 | 77 | 3 | 70-130/30 |
| 100-41-4 | Ethylbenzene | 10 | 11.4 | 114 | 11.0 | 110 | 4 | 70-130/30 |
| 141-78-6 | Ethyl Acetate | 10 | 11.4 | 114 | 11.1 | 111 | 3 | 70-130/30 |
| 622-96-8 | 4-Ethyltoluene | 10 | 11.7 | 117 | 11.2 | 112 | 4 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2736-BS | 2W61654.D | 1 | 09/29/22 | TCH | n/a | n/a | V2W2736 |
| V2W2736-BSD | 2W61655.D | 1 | 09/29/22 | TCH | n/a | n/a | V2W2736 |



**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-3, JD52620-4, JD52620-5, JD52620-6, JD52620-7, JD52620-8, JD52620-9, JD52620-10, JD52620-12, JD52620-13

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | 10 | 11.4 | 114 | 11.0 | 110 | 4 | 70-130/30 |
| 76-14-2 | Freon 114 | 10 | 10.7 | 107 | 10.4 | 104 | 3 | 70-130/30 |
| 142-82-5 | Heptane | 10 | 9.2 | 92 | 8.9 | 89 | 3 | 70-130/30 |
| 87-68-3 | Hexachlorobutadiene | 10 | 11.6 | 116 | 11.0 | 110 | 5 | 70-130/30 |
| 110-54-3 | Hexane | 10 | 10.5 | 105 | 10.3 | 103 | 2 | 70-130/30 |
| 591-78-6 | 2-Hexanone | 10 | 11.9 | 119 | 11.6 | 116 | 3 | 70-130/30 |
| 67-63-0 | Isopropyl Alcohol | 10 | 10.0 | 100 | 9.8 | 98 | 2 | 70-130/30 |
| 75-09-2 | Methylene chloride | 10 | 10.6 | 106 | 10.5 | 105 | 1 | 70-130/30 |
| 78-93-3 | Methyl ethyl ketone | 10 | 11.2 | 112 | 11.3 | 113 | 1 | 70-130/30 |
| 108-10-1 | Methyl Isobutyl Ketone | 10 | 12.7 | 127 | 12.4 | 124 | 2 | 70-130/30 |
| 1634-04-4 | Methyl Tert Butyl Ether | 10 | 9.4 | 94 | 9.2 | 92 | 2 | 70-130/30 |
| 80-62-6 | Methylmethacrylate | 10 | 11.6 | 116 | 11.3 | 113 | 3 | 70-130/30 |
| 115-07-1 | Propylene | 10 | 8.5 | 85 | 8.2 | 82 | 4 | 70-130/30 |
| 100-42-5 | Styrene | 10 | 12.2 | 122 | 11.8 | 118 | 3 | 70-130/30 |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | 10.2 | 102 | 10.0 | 100 | 2 | 70-130/30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | 12.2 | 122 | 11.6 | 116 | 5 | 70-130/30 |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | 11.0 | 110 | 10.9 | 109 | 1 | 70-130/30 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | 12.0 | 120 | 11.3 | 113 | 6 | 70-130/30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 10 | 11.6 | 116 | 11.2 | 112 | 4 | 70-130/30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10 | 11.6 | 116 | 11.2 | 112 | 4 | 70-130/30 |
| 540-84-1 | 2,2,4-Trimethylpentane | 10 | 10.5 | 105 | 10.3 | 103 | 2 | 70-130/30 |
| 75-65-0 | Tertiary Butyl Alcohol | 10 | 10.1 | 101 | 10 | 100 | 1 | 70-130/30 |
| 127-18-4 | Tetrachloroethylene | 10 | 10.2 | 102 | 10.1 | 101 | 1 | 70-130/30 |
| 109-99-9 | Tetrahydrofuran | 10 | 10.9 | 109 | 10.9 | 109 | 0 | 70-130/30 |
| 108-88-3 | Toluene | 10 | 10.4 | 104 | 10.3 | 103 | 1 | 70-130/30 |
| 79-01-6 | Trichloroethylene | 10 | 11.4 | 114 | 11.0 | 110 | 4 | 70-130/30 |
| 75-69-4 | Trichlorofluoromethane | 10 | 11.2 | 112 | 11.0 | 110 | 2 | 70-130/30 |
| 75-01-4 | Vinyl chloride | 10 | 11.6 | 116 | 11.4 | 114 | 2 | 70-130/30 |
| 108-05-4 | Vinyl Acetate | 10 | 10.7 | 107 | 10.9 | 109 | 2 | 70-130/30 |
| | m,p-Xylene | 20 | 23.2 | 116 | 22.3 | 112 | 4 | 70-130/30 |
| 95-47-6 | o-Xylene | 10 | 11.5 | 115 | 11.1 | 111 | 4 | 70-130/30 |
| 1330-20-7 | Xylenes (total) | 30 | 34.7 | 116 | 33.4 | 111 | 4 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2736-BS | 2W61654.D | 1 | 09/29/22 | TCH | n/a | n/a | V2W2736 |
| V2W2736-BSD | 2W61655.D | 1 | 09/29/22 | TCH | n/a | n/a | V2W2736 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-3, JD52620-4, JD52620-5, JD52620-6, JD52620-7, JD52620-8, JD52620-9, JD52620-10, JD52620-12, JD52620-13

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 111% | 111% | 65-128% |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V6W1111-BS | 6W26138.D | 1 | 09/29/22 | TCH | n/a | n/a | V6W1111 |
| V6W1111-BSD | 6W26139.D | 1 | 09/29/22 | TCH | n/a | n/a | V6W1111 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-3, JD52620-5, JD52620-6, JD52620-7, JD52620-8

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethylene | 10 | 10.0 | 100 | 9.7 | 97 | 3 | 70-130/30 |
| 79-01-6 | Trichloroethylene | 10 | 10.2 | 102 | 10.5 | 105 | 3 | 70-130/30 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 106% | 108% | 65-128% |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2737-BS | 2W61686.D | 1 | 09/30/22 | TCH | n/a | n/a | V2W2737 |
| V2W2737-BSD | 2W61687.D | 1 | 09/30/22 | TCH | n/a | n/a | V2W2737 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-9, JD52620-11

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | 10 | 8.2 | 82 | 7.8 | 78 | 5 | 70-130/30 |
| 106-99-0 | 1,3-Butadiene | 10 | 9.2 | 92 | 9.4 | 94 | 2 | 70-130/30 |
| 71-43-2 | Benzene | 10 | 9.7 | 97 | 9.5 | 95 | 2 | 70-130/30 |
| 75-27-4 | Bromodichloromethane | 10 | 10.7 | 107 | 10.4 | 104 | 3 | 70-130/30 |
| 75-25-2 | Bromoform | 10 | 11.8 | 118 | 11.6 | 116 | 2 | 70-130/30 |
| 74-83-9 | Bromomethane | 10 | 10.1 | 101 | 9.6 | 96 | 5 | 70-130/30 |
| 593-60-2 | Bromoethene | 10 | 10.2 | 102 | 10.1 | 101 | 1 | 70-130/30 |
| 100-44-7 | Benzyl Chloride | 10 | 8.8 | 88 | 8.5 | 85 | 3 | 70-130/30 |
| 75-15-0 | Carbon disulfide | 10 | 11.8 | 118 | 11.4 | 114 | 3 | 70-130/30 |
| 108-90-7 | Chlorobenzene | 10 | 10.5 | 105 | 10.1 | 101 | 4 | 70-130/30 |
| 75-00-3 | Chloroethane | 10 | 10.8 | 108 | 10.9 | 109 | 1 | 70-130/30 |
| 67-66-3 | Chloroform | 10 | 10.0 | 100 | 9.8 | 98 | 2 | 70-130/30 |
| 74-87-3 | Chloromethane | 10 | 8.7 | 87 | 8.7 | 87 | 0 | 70-130/30 |
| 107-05-1 | 3-Chloropropene | 10 | 10.8 | 108 | 10.6 | 106 | 2 | 70-130/30 |
| 95-49-8 | 2-Chlorotoluene | 10 | 10.4 | 104 | 10.3 | 103 | 1 | 70-130/30 |
| 56-23-5 | Carbon tetrachloride | 10 | 9.5 | 95 | 9.3 | 93 | 2 | 70-130/30 |
| 110-82-7 | Cyclohexane | 10 | 10.2 | 102 | 10.0 | 100 | 2 | 70-130/30 |
| 75-34-3 | 1,1-Dichloroethane | 10 | 10.6 | 106 | 10.4 | 104 | 2 | 70-130/30 |
| 75-35-4 | 1,1-Dichloroethylene | 10 | 11.4 | 114 | 11.0 | 110 | 4 | 70-130/30 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | 10 | 10.2 | 102 | 10.1 | 101 | 1 | 70-130/30 |
| 107-06-2 | 1,2-Dichloroethane | 10 | 10.2 | 102 | 10.0 | 100 | 2 | 70-130/30 |
| 78-87-5 | 1,2-Dichloropropane | 10 | 10.7 | 107 | 10.6 | 106 | 1 | 70-130/30 |
| 123-91-1 | 1,4-Dioxane | 10 | 10.7 | 107 | 10.8 | 108 | 1 | 70-130/30 |
| 75-71-8 | Dichlorodifluoromethane | 10 | 9.6 | 96 | 9.4 | 94 | 2 | 70-130/30 |
| 124-48-1 | Dibromochloromethane | 10 | 10.5 | 105 | 10.3 | 103 | 2 | 70-130/30 |
| 156-60-5 | trans-1,2-Dichloroethylene | 10 | 10.1 | 101 | 9.9 | 99 | 2 | 70-130/30 |
| 156-59-2 | cis-1,2-Dichloroethylene | 10 | 9.9 | 99 | 9.6 | 96 | 3 | 70-130/30 |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | 10.2 | 102 | 9.9 | 99 | 3 | 70-130/30 |
| 541-73-1 | m-Dichlorobenzene | 10 | 11.0 | 110 | 10.6 | 106 | 4 | 70-130/30 |
| 95-50-1 | o-Dichlorobenzene | 10 | 10.9 | 109 | 10.5 | 105 | 4 | 70-130/30 |
| 106-46-7 | p-Dichlorobenzene | 10 | 10.9 | 109 | 10.5 | 105 | 4 | 70-130/30 |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | 9.7 | 97 | 9.5 | 95 | 2 | 70-130/30 |
| 64-17-5 | Ethanol | 10 | 7.2 | 72 | 7.3 | 73 | 1 | 70-130/30 |
| 100-41-4 | Ethylbenzene | 10 | 10.6 | 106 | 10.5 | 105 | 1 | 70-130/30 |
| 141-78-6 | Ethyl Acetate | 10 | 10.3 | 103 | 10.4 | 104 | 1 | 70-130/30 |
| 622-96-8 | 4-Ethyltoluene | 10 | 10.9 | 109 | 10.7 | 107 | 2 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2737-BS | 2W61686.D | 1 | 09/30/22 | TCH | n/a | n/a | V2W2737 |
| V2W2737-BSD | 2W61687.D | 1 | 09/30/22 | TCH | n/a | n/a | V2W2737 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-9, JD52620-11

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | 10 | 10.7 | 107 | 10.3 | 103 | 4 | 70-130/30 |
| 76-14-2 | Freon 114 | 10 | 9.9 | 99 | 9.7 | 97 | 2 | 70-130/30 |
| 142-82-5 | Heptane | 10 | 8.6 | 86 | 8.5 | 85 | 1 | 70-130/30 |
| 87-68-3 | Hexachlorobutadiene | 10 | 10.8 | 108 | 10.4 | 104 | 4 | 70-130/30 |
| 110-54-3 | Hexane | 10 | 9.8 | 98 | 9.7 | 97 | 1 | 70-130/30 |
| 591-78-6 | 2-Hexanone | 10 | 11.0 | 110 | 10.9 | 109 | 1 | 70-130/30 |
| 67-63-0 | Isopropyl Alcohol | 10 | 9.0 | 90 | 8.8 | 88 | 2 | 70-130/30 |
| 75-09-2 | Methylene chloride | 10 | 9.9 | 99 | 9.8 | 98 | 1 | 70-130/30 |
| 78-93-3 | Methyl ethyl ketone | 10 | 10.7 | 107 | 10.4 | 104 | 3 | 70-130/30 |
| 108-10-1 | Methyl Isobutyl Ketone | 10 | 11.9 | 119 | 11.6 | 116 | 3 | 70-130/30 |
| 1634-04-4 | Methyl Tert Butyl Ether | 10 | 8.8 | 88 | 8.7 | 87 | 1 | 70-130/30 |
| 80-62-6 | Methylmethacrylate | 10 | 10.7 | 107 | 10.7 | 107 | 0 | 70-130/30 |
| 115-07-1 | Propylene | 10 | 8.0 | 80 | 8.0 | 80 | 0 | 70-130/30 |
| 100-42-5 | Styrene | 10 | 11.4 | 114 | 11.3 | 113 | 1 | 70-130/30 |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | 9.6 | 96 | 9.4 | 94 | 2 | 70-130/30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | 11.5 | 115 | 11.2 | 112 | 3 | 70-130/30 |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | 10.1 | 101 | 10.0 | 100 | 1 | 70-130/30 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | 11.0 | 110 | 10.6 | 106 | 4 | 70-130/30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 10 | 10.9 | 109 | 10.7 | 107 | 2 | 70-130/30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10 | 10.9 | 109 | 10.6 | 106 | 3 | 70-130/30 |
| 540-84-1 | 2,2,4-Trimethylpentane | 10 | 9.9 | 99 | 9.7 | 97 | 2 | 70-130/30 |
| 75-65-0 | Tertiary Butyl Alcohol | 10 | 9.4 | 94 | 9.5 | 95 | 1 | 70-130/30 |
| 127-18-4 | Tetrachloroethylene | 10 | 9.5 | 95 | 9.4 | 94 | 1 | 70-130/30 |
| 109-99-9 | Tetrahydrofuran | 10 | 10.2 | 102 | 10.2 | 102 | 0 | 70-130/30 |
| 108-88-3 | Toluene | 10 | 9.7 | 97 | 9.5 | 95 | 2 | 70-130/30 |
| 79-01-6 | Trichloroethylene | 10 | 10.5 | 105 | 10.3 | 103 | 2 | 70-130/30 |
| 75-69-4 | Trichlorofluoromethane | 10 | 10.4 | 104 | 10.1 | 101 | 3 | 70-130/30 |
| 75-01-4 | Vinyl chloride | 10 | 10.8 | 108 | 10.6 | 106 | 2 | 70-130/30 |
| 108-05-4 | Vinyl Acetate | 10 | 10.3 | 103 | 10.2 | 102 | 1 | 70-130/30 |
| | m,p-Xylene | 20 | 21.7 | 109 | 21.1 | 106 | 3 | 70-130/30 |
| 95-47-6 | o-Xylene | 10 | 10.9 | 109 | 10.6 | 106 | 3 | 70-130/30 |
| 1330-20-7 | Xylenes (total) | 30 | 32.6 | 109 | 31.7 | 106 | 3 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2737-BS | 2W61686.D | 1 | 09/30/22 | TCH | n/a | n/a | V2W2737 |
| V2W2737-BSD | 2W61687.D | 1 | 09/30/22 | TCH | n/a | n/a | V2W2737 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-9, JD52620-11

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 112% | 112% | 65-128% |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2637-BS | 2W59299.D | 1 | 05/14/22 | TCH | n/a | n/a | V2W2637 |
| V2W2637-BSD | 2W59300.D | 1 | 05/14/22 | TCH | n/a | n/a | V2W2637 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2637-SCC

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | 10 | 9.7 | 97 | 9.8 | 98 | 1 | 70-130/30 |
| 106-99-0 | 1,3-Butadiene | 10 | 11.1 | 111 | 11.3 | 113 | 2 | 70-130/30 |
| 71-43-2 | Benzene | 10 | 11.4 | 114 | 11.4 | 114 | 0 | 70-130/30 |
| 75-27-4 | Bromodichloromethane | 10 | 11.7 | 117 | 11.7 | 117 | 0 | 70-130/30 |
| 75-25-2 | Bromoform | 10 | 12.2 | 122 | 12.6 | 126 | 3 | 70-130/30 |
| 74-83-9 | Bromomethane | 10 | 10.3 | 103 | 10.4 | 104 | 1 | 70-130/30 |
| 593-60-2 | Bromoethene | 10 | 10.7 | 107 | 10.7 | 107 | 0 | 70-130/30 |
| 100-44-7 | Benzyl Chloride | 10 | 10.4 | 104 | 10.8 | 108 | 4 | 70-130/30 |
| 75-15-0 | Carbon disulfide | 10 | 10.5 | 105 | 10.7 | 107 | 2 | 70-130/30 |
| 108-90-7 | Chlorobenzene | 10 | 10.6 | 106 | 10.9 | 109 | 3 | 70-130/30 |
| 75-00-3 | Chloroethane | 10 | 10.5 | 105 | 10.5 | 105 | 0 | 70-130/30 |
| 67-66-3 | Chloroform | 10 | 11.3 | 113 | 11.6 | 116 | 3 | 70-130/30 |
| 74-87-3 | Chloromethane | 10 | 10.2 | 102 | 10.3 | 103 | 1 | 70-130/30 |
| 107-05-1 | 3-Chloropropene | 10 | 10.1 | 101 | 10.1 | 101 | 0 | 70-130/30 |
| 95-49-8 | 2-Chlorotoluene | 10 | 11.2 | 112 | 11.6 | 116 | 4 | 70-130/30 |
| 56-23-5 | Carbon tetrachloride | 10 | 12.9 | 129 | 12.9 | 129 | 0 | 70-130/30 |
| 110-82-7 | Cyclohexane | 10 | 10.5 | 105 | 10.5 | 105 | 0 | 70-130/30 |
| 75-34-3 | 1,1-Dichloroethane | 10 | 11.3 | 113 | 11.5 | 115 | 2 | 70-130/30 |
| 75-35-4 | 1,1-Dichloroethylene | 10 | 10.6 | 106 | 10.8 | 108 | 2 | 70-130/30 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | 10 | 10.9 | 109 | 10.9 | 109 | 0 | 70-130/30 |
| 107-06-2 | 1,2-Dichloroethane | 10 | 12.8 | 128 | 12.9 | 129 | 1 | 70-130/30 |
| 78-87-5 | 1,2-Dichloropropane | 10 | 10.5 | 105 | 10.5 | 105 | 0 | 70-130/30 |
| 123-91-1 | 1,4-Dioxane | 10 | 10.0 | 100 | 10.1 | 101 | 1 | 70-130/30 |
| 75-71-8 | Dichlorodifluoromethane | 10 | 10.7 | 107 | 10.5 | 105 | 2 | 70-130/30 |
| 124-48-1 | Dibromochloromethane | 10 | 11.5 | 115 | 11.6 | 116 | 1 | 70-130/30 |
| 156-60-5 | trans-1,2-Dichloroethylene | 10 | 10.2 | 102 | 10.5 | 105 | 3 | 70-130/30 |
| 156-59-2 | cis-1,2-Dichloroethylene | 10 | 10.4 | 104 | 10.7 | 107 | 3 | 70-130/30 |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | 10.5 | 105 | 10.5 | 105 | 0 | 70-130/30 |
| 541-73-1 | m-Dichlorobenzene | 10 | 11.9 | 119 | 12.2 | 122 | 2 | 70-130/30 |
| 95-50-1 | o-Dichlorobenzene | 10 | 12.2 | 122 | 12.6 | 126 | 3 | 70-130/30 |
| 106-46-7 | p-Dichlorobenzene | 10 | 11.4 | 114 | 11.8 | 118 | 3 | 70-130/30 |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | 10.4 | 104 | 10.4 | 104 | 0 | 70-130/30 |
| 64-17-5 | Ethanol | 10 | 10.9 | 109 | 11.0 | 110 | 1 | 70-130/30 |
| 100-41-4 | Ethylbenzene | 10 | 11.0 | 110 | 11.4 | 114 | 4 | 70-130/30 |
| 141-78-6 | Ethyl Acetate | 10 | 10.1 | 101 | 10.5 | 105 | 4 | 70-130/30 |
| 622-96-8 | 4-Ethyltoluene | 10 | 12.1 | 121 | 12.4 | 124 | 2 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2637-BS | 2W59299.D | 1 | 05/14/22 | TCH | n/a | n/a | V2W2637 |
| V2W2637-BSD | 2W59300.D | 1 | 05/14/22 | TCH | n/a | n/a | V2W2637 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2637-SCC

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | 10 | 11.1 | 111 | 11.3 | 113 | 2 | 70-130/30 |
| 76-14-2 | Freon 114 | 10 | 11.3 | 113 | 11.5 | 115 | 2 | 70-130/30 |
| 142-82-5 | Heptane | 10 | 12.2 | 122 | 12.3 | 123 | 1 | 70-130/30 |
| 87-68-3 | Hexachlorobutadiene | 10 | 13.5 | 135* [a] | 13.6 | 136* [a] | 1 | 70-130/30 |
| 110-54-3 | Hexane | 10 | 10.7 | 107 | 11.0 | 110 | 3 | 70-130/30 |
| 591-78-6 | 2-Hexanone | 10 | 10.7 | 107 | 10.8 | 108 | 1 | 70-130/30 |
| 67-63-0 | Isopropyl Alcohol | 10 | 11.1 | 111 | 11.2 | 112 | 1 | 70-130/30 |
| 75-09-2 | Methylene chloride | 10 | 8.6 | 86 | 8.9 | 89 | 3 | 70-130/30 |
| 78-93-3 | Methyl ethyl ketone | 10 | 9.8 | 98 | 10.1 | 101 | 3 | 70-130/30 |
| 108-10-1 | Methyl Isobutyl Ketone | 10 | 10.9 | 109 | 11.1 | 111 | 2 | 70-130/30 |
| 1634-04-4 | Methyl Tert Butyl Ether | 10 | 11.0 | 110 | 11.1 | 111 | 1 | 70-130/30 |
| 80-62-6 | Methylmethacrylate | 10 | 10.2 | 102 | 10.3 | 103 | 1 | 70-130/30 |
| 115-07-1 | Propylene | 10 | 11.6 | 116 | 11.6 | 116 | 0 | 70-130/30 |
| 100-42-5 | Styrene | 10 | 10.9 | 109 | 11.2 | 112 | 3 | 70-130/30 |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | 12.0 | 120 | 12.3 | 123 | 2 | 70-130/30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | 11.8 | 118 | 12.2 | 122 | 3 | 70-130/30 |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | 10.8 | 108 | 11.0 | 110 | 2 | 70-130/30 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | 10.1 | 101 | 10.4 | 104 | 3 | 70-130/30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 10 | 12.5 | 125 | 13.0 | 130 | 4 | 70-130/30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10 | 12.4 | 124 | 12.7 | 127 | 2 | 70-130/30 |
| 540-84-1 | 2,2,4-Trimethylpentane | 10 | 11.3 | 113 | 11.4 | 114 | 1 | 70-130/30 |
| 75-65-0 | Tertiary Butyl Alcohol | 10 | 12.0 | 120 | 12.2 | 122 | 2 | 70-130/30 |
| 127-18-4 | Tetrachloroethylene | 10 | 11.6 | 116 | 11.7 | 117 | 1 | 70-130/30 |
| 109-99-9 | Tetrahydrofuran | 10 | 9.9 | 99 | 9.9 | 99 | 0 | 70-130/30 |
| 108-88-3 | Toluene | 10 | 10.7 | 107 | 10.7 | 107 | 0 | 70-130/30 |
| 79-01-6 | Trichloroethylene | 10 | 11.1 | 111 | 11.3 | 113 | 2 | 70-130/30 |
| 75-69-4 | Trichlorofluoromethane | 10 | 12.5 | 125 | 12.7 | 127 | 2 | 70-130/30 |
| 75-01-4 | Vinyl chloride | 10 | 10.7 | 107 | 10.7 | 107 | 0 | 70-130/30 |
| 108-05-4 | Vinyl Acetate | 10 | 10.8 | 108 | 11.2 | 112 | 4 | 70-130/30 |
| | m,p-Xylene | 20 | 23.4 | 117 | 24.0 | 120 | 3 | 70-130/30 |
| 95-47-6 | o-Xylene | 10 | 11.8 | 118 | 12.1 | 121 | 3 | 70-130/30 |
| 1330-20-7 | Xylenes (total) | 30 | 35.2 | 117 | 36.2 | 121 | 3 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2637-BS | 2W59299.D | 1 | 05/14/22 | TCH | n/a | n/a | V2W2637 |
| V2W2637-BSD | 2W59300.D | 1 | 05/14/22 | TCH | n/a | n/a | V2W2637 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2637-SCC

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 109% | 109% | 65-128% |

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2710-BS | 2W61025.D | 1 | 08/24/22 | TCH | n/a | n/a | V2W2710 |
| V2W2710-BSD | 2W61026.D | 1 | 08/24/22 | TCH | n/a | n/a | V2W2710 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2710-SCC

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | 10 | 8.0 | 80 | 7.6 | 76 | 5 | 70-130/30 |
| 106-99-0 | 1,3-Butadiene | 10 | 9.6 | 96 | 9.4 | 94 | 2 | 70-130/30 |
| 71-43-2 | Benzene | 10 | 9.9 | 99 | 9.7 | 97 | 2 | 70-130/30 |
| 75-27-4 | Bromodichloromethane | 10 | 10.5 | 105 | 10.2 | 102 | 3 | 70-130/30 |
| 75-25-2 | Bromoform | 10 | 11.7 | 117 | 11.3 | 113 | 3 | 70-130/30 |
| 74-83-9 | Bromomethane | 10 | 9.9 | 99 | 9.8 | 98 | 1 | 70-130/30 |
| 593-60-2 | Bromoethene | 10 | 10.4 | 104 | 10.2 | 102 | 2 | 70-130/30 |
| 100-44-7 | Benzyl Chloride | 10 | 11.1 | 111 | 10.6 | 106 | 5 | 70-130/30 |
| 75-15-0 | Carbon disulfide | 10 | 9.9 | 99 | 9.8 | 98 | 1 | 70-130/30 |
| 108-90-7 | Chlorobenzene | 10 | 10.3 | 103 | 10.0 | 100 | 3 | 70-130/30 |
| 75-00-3 | Chloroethane | 10 | 10.0 | 100 | 9.8 | 98 | 2 | 70-130/30 |
| 67-66-3 | Chloroform | 10 | 9.9 | 99 | 9.8 | 98 | 1 | 70-130/30 |
| 74-87-3 | Chloromethane | 10 | 9.0 | 90 | 9.0 | 90 | 0 | 70-130/30 |
| 107-05-1 | 3-Chloropropene | 10 | 9.6 | 96 | 9.4 | 94 | 2 | 70-130/30 |
| 95-49-8 | 2-Chlorotoluene | 10 | 10.6 | 106 | 10.3 | 103 | 3 | 70-130/30 |
| 56-23-5 | Carbon tetrachloride | 10 | 10.5 | 105 | 10.3 | 103 | 2 | 70-130/30 |
| 110-82-7 | Cyclohexane | 10 | 10.1 | 101 | 9.8 | 98 | 3 | 70-130/30 |
| 75-34-3 | 1,1-Dichloroethane | 10 | 9.8 | 98 | 9.7 | 97 | 1 | 70-130/30 |
| 75-35-4 | 1,1-Dichloroethylene | 10 | 9.8 | 98 | 9.9 | 99 | 1 | 70-130/30 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | 10 | 10.7 | 107 | 10.4 | 104 | 3 | 70-130/30 |
| 107-06-2 | 1,2-Dichloroethane | 10 | 9.7 | 97 | 9.6 | 96 | 1 | 70-130/30 |
| 78-87-5 | 1,2-Dichloropropane | 10 | 9.8 | 98 | 9.6 | 96 | 2 | 70-130/30 |
| 123-91-1 | 1,4-Dioxane | 10 | 10.3 | 103 | 10.1 | 101 | 2 | 70-130/30 |
| 75-71-8 | Dichlorodifluoromethane | 10 | 10.1 | 101 | 9.9 | 99 | 2 | 70-130/30 |
| 124-48-1 | Dibromochloromethane | 10 | 11.3 | 113 | 11.0 | 110 | 3 | 70-130/30 |
| 156-60-5 | trans-1,2-Dichloroethylene | 10 | 10.2 | 102 | 10.0 | 100 | 2 | 70-130/30 |
| 156-59-2 | cis-1,2-Dichloroethylene | 10 | 10.1 | 101 | 9.9 | 99 | 2 | 70-130/30 |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | 10.9 | 109 | 10.5 | 105 | 4 | 70-130/30 |
| 541-73-1 | m-Dichlorobenzene | 10 | 10.6 | 106 | 10.3 | 103 | 3 | 70-130/30 |
| 95-50-1 | o-Dichlorobenzene | 10 | 10.3 | 103 | 10 | 100 | 3 | 70-130/30 |
| 106-46-7 | p-Dichlorobenzene | 10 | 10.5 | 105 | 10.3 | 103 | 2 | 70-130/30 |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | 11.1 | 111 | 10.7 | 107 | 4 | 70-130/30 |
| 64-17-5 | Ethanol | 10 | 7.8 | 78 | 7.5 | 75 | 4 | 70-130/30 |
| 100-41-4 | Ethylbenzene | 10 | 10.4 | 104 | 10.2 | 102 | 2 | 70-130/30 |
| 141-78-6 | Ethyl Acetate | 10 | 9.8 | 98 | 9.8 | 98 | 0 | 70-130/30 |
| 622-96-8 | 4-Ethyltoluene | 10 | 10.8 | 108 | 10.4 | 104 | 4 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2710-BS | 2W61025.D | 1 | 08/24/22 | TCH | n/a | n/a | V2W2710 |
| V2W2710-BSD | 2W61026.D | 1 | 08/24/22 | TCH | n/a | n/a | V2W2710 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2710-SCC

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | 10 | 10.1 | 101 | 9.9 | 99 | 2 | 70-130/30 |
| 76-14-2 | Freon 114 | 10 | 10 | 100 | 9.8 | 98 | 2 | 70-130/30 |
| 142-82-5 | Heptane | 10 | 9.4 | 94 | 9.1 | 91 | 3 | 70-130/30 |
| 87-68-3 | Hexachlorobutadiene | 10 | 9.5 | 95 | 9.3 | 93 | 2 | 70-130/30 |
| 110-54-3 | Hexane | 10 | 9.5 | 95 | 9.4 | 94 | 1 | 70-130/30 |
| 591-78-6 | 2-Hexanone | 10 | 9.5 | 95 | 9.3 | 93 | 2 | 70-130/30 |
| 67-63-0 | Isopropyl Alcohol | 10 | 8.8 | 88 | 8.5 | 85 | 3 | 70-130/30 |
| 75-09-2 | Methylene chloride | 10 | 8.2 | 82 | 8.1 | 81 | 1 | 70-130/30 |
| 78-93-3 | Methyl ethyl ketone | 10 | 10.7 | 107 | 10.5 | 105 | 2 | 70-130/30 |
| 108-10-1 | Methyl Isobutyl Ketone | 10 | 10.9 | 109 | 10.5 | 105 | 4 | 70-130/30 |
| 1634-04-4 | Methyl Tert Butyl Ether | 10 | 10.1 | 101 | 9.9 | 99 | 2 | 70-130/30 |
| 80-62-6 | Methylmethacrylate | 10 | 10.8 | 108 | 10.5 | 105 | 3 | 70-130/30 |
| 115-07-1 | Propylene | 10 | 9.3 | 93 | 8.9 | 89 | 4 | 70-130/30 |
| 100-42-5 | Styrene | 10 | 11.1 | 111 | 10.8 | 108 | 3 | 70-130/30 |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | 10.1 | 101 | 10.0 | 100 | 1 | 70-130/30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | 10.3 | 103 | 10 | 100 | 3 | 70-130/30 |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | 10.2 | 102 | 9.9 | 99 | 3 | 70-130/30 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | 10.5 | 105 | 10.4 | 104 | 1 | 70-130/30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 10 | 10.4 | 104 | 10.1 | 101 | 3 | 70-130/30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10 | 10.6 | 106 | 10.3 | 103 | 3 | 70-130/30 |
| 540-84-1 | 2,2,4-Trimethylpentane | 10 | 9.5 | 95 | 9.3 | 93 | 2 | 70-130/30 |
| 75-65-0 | Tertiary Butyl Alcohol | 10 | 9.5 | 95 | 9.4 | 94 | 1 | 70-130/30 |
| 127-18-4 | Tetrachloroethylene | 10 | 10.3 | 103 | 10.0 | 100 | 3 | 70-130/30 |
| 109-99-9 | Tetrahydrofuran | 10 | 10.5 | 105 | 10.5 | 105 | 0 | 70-130/30 |
| 108-88-3 | Toluene | 10 | 10.2 | 102 | 10 | 100 | 2 | 70-130/30 |
| 79-01-6 | Trichloroethylene | 10 | 10.7 | 107 | 10.4 | 104 | 3 | 70-130/30 |
| 75-69-4 | Trichlorofluoromethane | 10 | 10.1 | 101 | 9.8 | 98 | 3 | 70-130/30 |
| 75-01-4 | Vinyl chloride | 10 | 9.8 | 98 | 9.6 | 96 | 2 | 70-130/30 |
| 108-05-4 | Vinyl Acetate | 10 | 10.9 | 109 | 10.8 | 108 | 1 | 70-130/30 |
| | m,p-Xylene | 20 | 20.8 | 104 | 20.3 | 102 | 2 | 70-130/30 |
| 95-47-6 | o-Xylene | 10 | 10.3 | 103 | 10.2 | 102 | 1 | 70-130/30 |
| 1330-20-7 | Xylenes (total) | 30 | 31.1 | 104 | 30.5 | 102 | 2 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2710-BS | 2W61025.D | 1 | 08/24/22 | TCH | n/a | n/a | V2W2710 |
| V2W2710-BSD | 2W61026.D | 1 | 08/24/22 | TCH | n/a | n/a | V2W2710 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2710-SCC

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 99% | 100% | 65-128% |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2714-BS | 2W61141.D | 1 | 08/30/22 | WC | n/a | n/a | V2W2714 |
| V2W2714-BSD | 2W61142.D | 1 | 08/30/22 | WC | n/a | n/a | V2W2714 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2714-SCC

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | 10 | 8.9 | 89 | 8.5 | 85 | 5 | 70-130/30 |
| 106-99-0 | 1,3-Butadiene | 10 | 10.2 | 102 | 9.7 | 97 | 5 | 70-130/30 |
| 71-43-2 | Benzene | 10 | 9.5 | 95 | 9.3 | 93 | 2 | 70-130/30 |
| 75-27-4 | Bromodichloromethane | 10 | 10.0 | 100 | 10.0 | 100 | 0 | 70-130/30 |
| 75-25-2 | Bromoform | 10 | 10.2 | 102 | 10.0 | 100 | 2 | 70-130/30 |
| 74-83-9 | Bromomethane | 10 | 9.8 | 98 | 9.5 | 95 | 3 | 70-130/30 |
| 593-60-2 | Bromoethene | 10 | 10.2 | 102 | 9.9 | 99 | 3 | 70-130/30 |
| 100-44-7 | Benzyl Chloride | 10 | 7.9 | 79 | 7.7 | 77 | 3 | 70-130/30 |
| 75-15-0 | Carbon disulfide | 10 | 10.3 | 103 | 9.9 | 99 | 4 | 70-130/30 |
| 108-90-7 | Chlorobenzene | 10 | 9.8 | 98 | 9.7 | 97 | 1 | 70-130/30 |
| 75-00-3 | Chloroethane | 10 | 10.5 | 105 | 10.3 | 103 | 2 | 70-130/30 |
| 67-66-3 | Chloroform | 10 | 9.7 | 97 | 9.5 | 95 | 2 | 70-130/30 |
| 74-87-3 | Chloromethane | 10 | 9.4 | 94 | 8.9 | 89 | 5 | 70-130/30 |
| 107-05-1 | 3-Chloropropene | 10 | 9.8 | 98 | 9.4 | 94 | 4 | 70-130/30 |
| 95-49-8 | 2-Chlorotoluene | 10 | 10.1 | 101 | 10 | 100 | 1 | 70-130/30 |
| 56-23-5 | Carbon tetrachloride | 10 | 9.7 | 97 | 9.5 | 95 | 2 | 70-130/30 |
| 110-82-7 | Cyclohexane | 10 | 9.6 | 96 | 9.5 | 95 | 1 | 70-130/30 |
| 75-34-3 | 1,1-Dichloroethane | 10 | 10.4 | 104 | 10.0 | 100 | 4 | 70-130/30 |
| 75-35-4 | 1,1-Dichloroethylene | 10 | 10.4 | 104 | 10.0 | 100 | 4 | 70-130/30 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | 10 | 10.0 | 100 | 10.0 | 100 | 0 | 70-130/30 |
| 107-06-2 | 1,2-Dichloroethane | 10 | 10.3 | 103 | 9.9 | 99 | 4 | 70-130/30 |
| 78-87-5 | 1,2-Dichloropropane | 10 | 10.2 | 102 | 10.2 | 102 | 0 | 70-130/30 |
| 123-91-1 | 1,4-Dioxane | 10 | 9.4 | 94 | 9.7 | 97 | 3 | 70-130/30 |
| 75-71-8 | Dichlorodifluoromethane | 10 | 9.9 | 99 | 9.5 | 95 | 4 | 70-130/30 |
| 124-48-1 | Dibromochloromethane | 10 | 10.7 | 107 | 10.6 | 106 | 1 | 70-130/30 |
| 156-60-5 | trans-1,2-Dichloroethylene | 10 | 9.8 | 98 | 9.4 | 94 | 4 | 70-130/30 |
| 156-59-2 | cis-1,2-Dichloroethylene | 10 | 9.8 | 98 | 9.3 | 93 | 5 | 70-130/30 |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | 9.7 | 97 | 9.7 | 97 | 0 | 70-130/30 |
| 541-73-1 | m-Dichlorobenzene | 10 | 9.8 | 98 | 9.5 | 95 | 3 | 70-130/30 |
| 95-50-1 | o-Dichlorobenzene | 10 | 9.5 | 95 | 9.3 | 93 | 2 | 70-130/30 |
| 106-46-7 | p-Dichlorobenzene | 10 | 9.8 | 98 | 9.4 | 94 | 4 | 70-130/30 |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | 9.4 | 94 | 9.4 | 94 | 0 | 70-130/30 |
| 64-17-5 | Ethanol | 10 | 7.6 | 76 | 7.5 | 75 | 1 | 70-130/30 |
| 100-41-4 | Ethylbenzene | 10 | 10 | 100 | 9.8 | 98 | 2 | 70-130/30 |
| 141-78-6 | Ethyl Acetate | 10 | 10.5 | 105 | 10.1 | 101 | 4 | 70-130/30 |
| 622-96-8 | 4-Ethyltoluene | 10 | 10.4 | 104 | 10.2 | 102 | 2 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2714-BS | 2W61141.D | 1 | 08/30/22 | WC | n/a | n/a | V2W2714 |
| V2W2714-BSD | 2W61142.D | 1 | 08/30/22 | WC | n/a | n/a | V2W2714 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2714-SCC

| CAS No. | Compound | Spike ppbv | BSP ppbv | BSP % | BSD ppbv | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | 10 | 9.8 | 98 | 9.3 | 93 | 5 | 70-130/30 |
| 76-14-2 | Freon 114 | 10 | 9.9 | 99 | 9.5 | 95 | 4 | 70-130/30 |
| 142-82-5 | Heptane | 10 | 9.1 | 91 | 9.2 | 92 | 1 | 70-130/30 |
| 87-68-3 | Hexachlorobutadiene | 10 | 8.6 | 86 | 8.3 | 83 | 4 | 70-130/30 |
| 110-54-3 | Hexane | 10 | 10.2 | 102 | 10 | 100 | 2 | 70-130/30 |
| 591-78-6 | 2-Hexanone | 10 | 9.6 | 96 | 9.6 | 96 | 0 | 70-130/30 |
| 67-63-0 | Isopropyl Alcohol | 10 | 9.3 | 93 | 9.1 | 91 | 2 | 70-130/30 |
| 75-09-2 | Methylene chloride | 10 | 8.7 | 87 | 8.3 | 83 | 5 | 70-130/30 |
| 78-93-3 | Methyl ethyl ketone | 10 | 10.1 | 101 | 9.8 | 98 | 3 | 70-130/30 |
| 108-10-1 | Methyl Isobutyl Ketone | 10 | 11.3 | 113 | 11.4 | 114 | 1 | 70-130/30 |
| 1634-04-4 | Methyl Tert Butyl Ether | 10 | 9.1 | 91 | 8.8 | 88 | 3 | 70-130/30 |
| 80-62-6 | Methylmethacrylate | 10 | 10.2 | 102 | 10.1 | 101 | 1 | 70-130/30 |
| 115-07-1 | Propylene | 10 | 8.6 | 86 | 8.4 | 84 | 2 | 70-130/30 |
| 100-42-5 | Styrene | 10 | 10.6 | 106 | 10.4 | 104 | 2 | 70-130/30 |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | 9.6 | 96 | 9.4 | 94 | 2 | 70-130/30 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | 10.0 | 100 | 9.8 | 98 | 2 | 70-130/30 |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | 9.7 | 97 | 9.7 | 97 | 0 | 70-130/30 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | 9.6 | 96 | 9.1 | 91 | 5 | 70-130/30 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 10 | 10.3 | 103 | 9.9 | 99 | 4 | 70-130/30 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10 | 10.4 | 104 | 10.1 | 101 | 3 | 70-130/30 |
| 540-84-1 | 2,2,4-Trimethylpentane | 10 | 9.9 | 99 | 9.9 | 99 | 0 | 70-130/30 |
| 75-65-0 | Tertiary Butyl Alcohol | 10 | 10.2 | 102 | 9.9 | 99 | 3 | 70-130/30 |
| 127-18-4 | Tetrachloroethylene | 10 | 9.2 | 92 | 9.2 | 92 | 0 | 70-130/30 |
| 109-99-9 | Tetrahydrofuran | 10 | 10.1 | 101 | 10 | 100 | 1 | 70-130/30 |
| 108-88-3 | Toluene | 10 | 9.7 | 97 | 9.7 | 97 | 0 | 70-130/30 |
| 79-01-6 | Trichloroethylene | 10 | 10.2 | 102 | 10.2 | 102 | 0 | 70-130/30 |
| 75-69-4 | Trichlorofluoromethane | 10 | 10.3 | 103 | 9.8 | 98 | 5 | 70-130/30 |
| 75-01-4 | Vinyl chloride | 10 | 10.5 | 105 | 10.3 | 103 | 2 | 70-130/30 |
| 108-05-4 | Vinyl Acetate | 10 | 9.7 | 97 | 9.7 | 97 | 0 | 70-130/30 |
| | m,p-Xylene | 20 | 20.1 | 101 | 19.9 | 100 | 1 | 70-130/30 |
| 95-47-6 | o-Xylene | 10 | 10.0 | 100 | 9.9 | 99 | 1 | 70-130/30 |
| 1330-20-7 | Xylenes (total) | 30 | 30.2 | 101 | 29.8 | 99 | 1 | 70-130/30 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2714-BS | 2W61141.D | 1 | 08/30/22 | WC | n/a | n/a | V2W2714 |
| V2W2714-BSD | 2W61142.D | 1 | 08/30/22 | WC | n/a | n/a | V2W2714 |

**The QC reported here applies to the following samples:** **Method:** TO-15

V2W2714-SCC

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 101% | 99% | 65-128% |

* = Outside of Control Limits.

# Duplicate Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52482-2DUP | 2W61640.D | 1 | 09/28/22 | TCH | n/a | n/a | V2W2735 |
| JD52482-2 | 2W61639.D | 1 | 09/28/22 | TCH | n/a | n/a | V2W2735 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-1, JD52620-2

| CAS No. | Compound | JD52482-2 ppbv | Q | DUP ppbv | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | 2.5 | | 2.5 | | 0 | 25 |
| 106-99-0 | 1,3-Butadiene | ND | | ND | | nc | 25 |
| 71-43-2 | Benzene | ND | | ND | | nc | 25 |
| 75-27-4 | Bromodichloromethane | ND | | ND | | nc | 25 |
| 75-25-2 | Bromoform | ND | | ND | | nc | 25 |
| 74-83-9 | Bromomethane | ND | | ND | | nc | 25 |
| 593-60-2 | Bromoethene | ND | | ND | | nc | 25 |
| 100-44-7 | Benzyl Chloride | ND | | ND | | nc | 25 |
| 75-15-0 | Carbon disulfide | ND | | ND | | nc | 25 |
| 108-90-7 | Chlorobenzene | ND | | ND | | nc | 25 |
| 75-00-3 | Chloroethane | ND | | ND | | nc | 25 |
| 67-66-3 | Chloroform | ND | | ND | | nc | 25 |
| 74-87-3 | Chloromethane | ND | | ND | | nc | 25 |
| 107-05-1 | 3-Chloropropene | ND | | ND | | nc | 25 |
| 95-49-8 | 2-Chlorotoluene | ND | | ND | | nc | 25 |
| 56-23-5 | Carbon tetrachloride | ND | | ND | | nc | 25 |
| 110-82-7 | Cyclohexane | ND | | ND | | nc | 25 |
| 75-34-3 | 1,1-Dichloroethane | ND | | ND | | nc | 25 |
| 75-35-4 | 1,1-Dichloroethylene | ND | | ND | | nc | 25 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | | ND | | nc | 25 |
| 107-06-2 | 1,2-Dichloroethane | ND | | ND | | nc | 25 |
| 78-87-5 | 1,2-Dichloropropane | ND | | ND | | nc | 25 |
| 123-91-1 | 1,4-Dioxane | ND | | ND | | nc | 25 |
| 75-71-8 | Dichlorodifluoromethane | 0.38 | J | 0.38 | J | 0 | 25 |
| 124-48-1 | Dibromochloromethane | ND | | ND | | nc | 25 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | | ND | | nc | 25 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | | ND | | nc | 25 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | ND | | nc | 25 |
| 541-73-1 | m-Dichlorobenzene | ND | | ND | | nc | 25 |
| 95-50-1 | o-Dichlorobenzene | ND | | ND | | nc | 25 |
| 106-46-7 | p-Dichlorobenzene | ND | | ND | | nc | 25 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | ND | | nc | 25 |
| 64-17-5 | Ethanol | 3.2 | | 3.4 | | 6 | 25 |
| 100-41-4 | Ethylbenzene | ND | | ND | | nc | 25 |
| 141-78-6 | Ethyl Acetate | 17.2 | | 17.7 | | 3 | 25 |
| 622-96-8 | 4-Ethyltoluene | ND | | ND | | nc | 25 |

* = Outside of Control Limits.

# Duplicate Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52482-2DUP | 2W61640.D | 1 | 09/28/22 | TCH | n/a | n/a | V2W2735 |
| JD52482-2 | 2W61639.D | 1 | 09/28/22 | TCH | n/a | n/a | V2W2735 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-1, JD52620-2

| CAS No. | Compound | JD52482-2 ppbv | Q | DUP ppbv | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | | ND | | nc | 25 |
| 76-14-2 | Freon 114 | ND | | ND | | nc | 25 |
| 142-82-5 | Heptane | ND | | ND | | nc | 25 |
| 87-68-3 | Hexachlorobutadiene | ND | | ND | | nc | 25 |
| 110-54-3 | Hexane | ND | | ND | | nc | 25 |
| 591-78-6 | 2-Hexanone | ND | | ND | | nc | 25 |
| 67-63-0 | Isopropyl Alcohol | 0.90 | | 0.87 | | 3 | 25 |
| 75-09-2 | Methylene chloride | 0.99 | | 1.0 | | 1 | 25 |
| 78-93-3 | Methyl ethyl ketone | ND | | ND | | nc | 25 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | | ND | | nc | 25 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | ND | | nc | 25 |
| 80-62-6 | Methylmethacrylate | ND | | ND | | nc | 25 |
| 115-07-1 | Propylene | 3.0 | | 3.0 | | 0 | 25 |
| 100-42-5 | Styrene | ND | | ND | | nc | 25 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | ND | | nc | 25 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | ND | | nc | 25 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | ND | | nc | 25 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | ND | | nc | 25 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | ND | | nc | 25 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | ND | | nc | 25 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | | ND | | nc | 25 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | ND | | nc | 25 |
| 127-18-4 | Tetrachloroethylene | ND | | ND | | nc | 25 |
| 109-99-9 | Tetrahydrofuran | ND | | ND | | nc | 25 |
| 108-88-3 | Toluene | 3.1 | | 3.0 | | 3 | 25 |
| 79-01-6 | Trichloroethylene | ND | | ND | | nc | 25 |
| 75-69-4 | Trichlorofluoromethane | ND | | ND | | nc | 25 |
| 75-01-4 | Vinyl chloride | ND | | ND | | nc | 25 |
| 108-05-4 | Vinyl Acetate | ND | | ND | | nc | 25 |
| | m,p-Xylene | ND | | ND | | nc | 25 |
| 95-47-6 | o-Xylene | ND | | ND | | nc | 25 |
| 1330-20-7 | Xylenes (total) | ND | | ND | | nc | 25 |

* = Outside of Control Limits.

# Duplicate Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52482-2DUP | 2W61640.D | 1 | 09/28/22 | TCH | n/a | n/a | V2W2735 |
| JD52482-2 | 2W61639.D | 1 | 09/28/22 | TCH | n/a | n/a | V2W2735 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-1, JD52620-2

| CAS No. | Surrogate Recoveries | DUP | JD52482-2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 107% | 106% | 65-128% |

* = Outside of Control Limits.

# Duplicate Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52620-8DUP | 2W61665.D | 1 | 09/29/22 | TCH | n/a | n/a | V2W2736 |
| JD52620-8 | 2W61664.D | 1 | 09/29/22 | TCH | n/a | n/a | V2W2736 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-3, JD52620-4, JD52620-5, JD52620-6, JD52620-7, JD52620-8, JD52620-9, JD52620-10, JD52620-12, JD52620-13

| CAS No. | Compound | JD52620-8 ppbv | Q | DUP ppbv | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | 4.3 | | 4.8 | | 11 | 25 |
| 106-99-0 | 1,3-Butadiene | ND | | ND | | nc | 25 |
| 71-43-2 | Benzene | ND | | ND | | nc | 25 |
| 75-27-4 | Bromodichloromethane | ND | | ND | | nc | 25 |
| 75-25-2 | Bromoform | ND | | ND | | nc | 25 |
| 74-83-9 | Bromomethane | ND | | ND | | nc | 25 |
| 593-60-2 | Bromoethene | ND | | ND | | nc | 25 |
| 100-44-7 | Benzyl Chloride | ND | | ND | | nc | 25 |
| 75-15-0 | Carbon disulfide | ND | | ND | | nc | 25 |
| 108-90-7 | Chlorobenzene | ND | | ND | | nc | 25 |
| 75-00-3 | Chloroethane | ND | | ND | | nc | 25 |
| 67-66-3 | Chloroform | ND | | ND | | nc | 25 |
| 74-87-3 | Chloromethane | ND | | ND | | nc | 25 |
| 107-05-1 | 3-Chloropropene | ND | | ND | | nc | 25 |
| 95-49-8 | 2-Chlorotoluene | ND | | ND | | nc | 25 |
| 56-23-5 | Carbon tetrachloride | ND | | ND | | nc | 25 |
| 110-82-7 | Cyclohexane | ND | | ND | | nc | 25 |
| 75-34-3 | 1,1-Dichloroethane | ND | | ND | | nc | 25 |
| 75-35-4 | 1,1-Dichloroethylene | 0.66 | | 0.71 | J | 7 | 25 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | | ND | | nc | 25 |
| 107-06-2 | 1,2-Dichloroethane | ND | | ND | | nc | 25 |
| 78-87-5 | 1,2-Dichloropropane | ND | | ND | | nc | 25 |
| 123-91-1 | 1,4-Dioxane | ND | | ND | | nc | 25 |
| 75-71-8 | Dichlorodifluoromethane | 0.39 | J | 0.42 | J | 7 | 25 |
| 124-48-1 | Dibromochloromethane | ND | | ND | | nc | 25 |
| 156-60-5 | trans-1,2-Dichloroethylene | 2.3 | | 2.4 | | 4 | 25 |
| 156-59-2 | cis-1,2-Dichloroethylene | 349 | E | 366 | E | 5 | 25 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | ND | | nc | 25 |
| 541-73-1 | m-Dichlorobenzene | ND | | ND | | nc | 25 |
| 95-50-1 | o-Dichlorobenzene | ND | | ND | | nc | 25 |
| 106-46-7 | p-Dichlorobenzene | ND | | ND | | nc | 25 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | ND | | nc | 25 |
| 64-17-5 | Ethanol | 3.1 | | 3.3 | | 6 | 25 |
| 100-41-4 | Ethylbenzene | ND | | ND | | nc | 25 |
| 141-78-6 | Ethyl Acetate | 67.4 | | 72.3 | | 7 | 25 |
| 622-96-8 | 4-Ethyltoluene | ND | | ND | | nc | 25 |

* = Outside of Control Limits.

# Duplicate Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52620-8DUP | 2W61665.D | 1 | 09/29/22 | TCH | n/a | n/a | V2W2736 |
| JD52620-8 | 2W61664.D | 1 | 09/29/22 | TCH | n/a | n/a | V2W2736 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-3, JD52620-4, JD52620-5, JD52620-6, JD52620-7, JD52620-8, JD52620-9, JD52620-10, JD52620-12, JD52620-13

| CAS No. | Compound | JD52620-8 ppbv | Q | DUP ppbv | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | | ND | | nc | 25 |
| 76-14-2 | Freon 114 | ND | | ND | | nc | 25 |
| 142-82-5 | Heptane | ND | | ND | | nc | 25 |
| 87-68-3 | Hexachlorobutadiene | ND | | ND | | nc | 25 |
| 110-54-3 | Hexane | ND | | ND | | nc | 25 |
| 591-78-6 | 2-Hexanone | ND | | ND | | nc | 25 |
| 67-63-0 | Isopropyl Alcohol | 0.86 | | 0.89 | | 3 | 25 |
| 75-09-2 | Methylene chloride | ND | | ND | | nc | 25 |
| 78-93-3 | Methyl ethyl ketone | 0.57 | J | 0.49 | J | 15 | 25 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | | ND | | nc | 25 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | ND | | nc | 25 |
| 80-62-6 | Methylmethacrylate | ND | | ND | | nc | 25 |
| 115-07-1 | Propylene | ND | | ND | | nc | 25 |
| 100-42-5 | Styrene | ND | | ND | | nc | 25 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | ND | | nc | 25 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | ND | | nc | 25 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | ND | | nc | 25 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | ND | | nc | 25 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | ND | | nc | 25 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | ND | | nc | 25 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | | ND | | nc | 25 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | | ND | | nc | 25 |
| 127-18-4 | Tetrachloroethylene | ND | | ND | | nc | 25 |
| 109-99-9 | Tetrahydrofuran | ND | | ND | | nc | 25 |
| 108-88-3 | Toluene | 1.7 | | 1.7 | | 0 | 25 |
| 79-01-6 | Trichloroethylene | 85.7 | | 87.5 | | 2 | 25 |
| 75-69-4 | Trichlorofluoromethane | ND | | ND | | nc | 25 |
| 75-01-4 | Vinyl chloride | 22.1 | | 23.0 | | 4 | 25 |
| 108-05-4 | Vinyl Acetate | 0.83 | | 0.89 | | 7 | 25 |
| | m,p-Xylene | ND | | ND | | nc | 25 |
| 95-47-6 | o-Xylene | ND | | ND | | nc | 25 |
| 1330-20-7 | Xylenes (total) | ND | | ND | | nc | 25 |

* = Outside of Control Limits.

# Duplicate Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52620-8DUP | 2W61665.D | 1 | 09/29/22 | TCH | n/a | n/a | V2W2736 |
| JD52620-8 | 2W61664.D | 1 | 09/29/22 | TCH | n/a | n/a | V2W2736 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-3, JD52620-4, JD52620-5, JD52620-6, JD52620-7, JD52620-8, JD52620-9, JD52620-10, JD52620-12, JD52620-13

| CAS No. | Surrogate Recoveries | DUP | JD52620-8 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 106% | 105% | 65-128% |

* = Outside of Control Limits.

# Duplicate Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52615-1DUP | 6W26144.D | 1 | 09/29/22 | TCH | n/a | n/a | V6W1111 |
| JD52615-1 | 6W26143.D | 1 | 09/29/22 | TCH | n/a | n/a | V6W1111 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-3, JD52620-5, JD52620-6, JD52620-7, JD52620-8

| CAS No. | Compound | JD52615-1 ppbv | Q | DUP ppbv | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethylene | 0.80 U | | ND | | nc | 25 |
| 79-01-6 | Trichloroethylene | 0.16 U | | ND | | nc | 25 |

| CAS No. | Surrogate Recoveries | DUP | JD52615-1 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 104% | 100% | 65-128% |

* = Outside of Control Limits.

# Duplicate Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52638-1DUP | 2W61697.D | 1 | 09/30/22 | TCH | n/a | n/a | V2W2737 |
| JD52638-1 | 2W61696.D | 1 | 09/30/22 | TCH | n/a | n/a | V2W2737 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-9, JD52620-11

| CAS No. | Compound | JD52638-1 ppbv | Q | DUP ppbv | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | 7.9 | | 8.2 | | 4 | 25 |
| 106-99-0 | 1,3-Butadiene | ND | | ND | | nc | 25 |
| 71-43-2 | Benzene | 0.20 | | 0.20 | | 0 | 25 |
| 75-27-4 | Bromodichloromethane | ND | | ND | | nc | 25 |
| 75-25-2 | Bromoform | ND | | ND | | nc | 25 |
| 74-83-9 | Bromomethane | ND | | ND | | nc | 25 |
| 593-60-2 | Bromoethene | ND | | ND | | nc | 25 |
| 100-44-7 | Benzyl Chloride | ND | | ND | | nc | 25 |
| 75-15-0 | Carbon disulfide | ND | | ND | | nc | 25 |
| 108-90-7 | Chlorobenzene | ND | | ND | | nc | 25 |
| 75-00-3 | Chloroethane | ND | | ND | | nc | 25 |
| 67-66-3 | Chloroform | ND | | ND | | nc | 25 |
| 74-87-3 | Chloromethane | 0.67 | | 0.63 | | 6 | 25 |
| 107-05-1 | 3-Chloropropene | ND | | ND | | nc | 25 |
| 95-49-8 | 2-Chlorotoluene | ND | | ND | | nc | 25 |
| 56-23-5 | Carbon tetrachloride | ND | | ND | | nc | 25 |
| 110-82-7 | Cyclohexane | ND | | ND | | nc | 25 |
| 75-34-3 | 1,1-Dichloroethane | ND | | ND | | nc | 25 |
| 75-35-4 | 1,1-Dichloroethylene | ND | | ND | | nc | 25 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | | ND | | nc | 25 |
| 107-06-2 | 1,2-Dichloroethane | ND | | ND | | nc | 25 |
| 78-87-5 | 1,2-Dichloropropane | ND | | ND | | nc | 25 |
| 123-91-1 | 1,4-Dioxane | ND | | ND | | nc | 25 |
| 75-71-8 | Dichlorodifluoromethane | 0.43 | | 0.42 | | 2 | 25 |
| 124-48-1 | Dibromochloromethane | ND | | ND | | nc | 25 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | | ND | | nc | 25 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | | ND | | nc | 25 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | ND | | nc | 25 |
| 541-73-1 | m-Dichlorobenzene | ND | | ND | | nc | 25 |
| 95-50-1 | o-Dichlorobenzene | ND | | ND | | nc | 25 |
| 106-46-7 | p-Dichlorobenzene | ND | | ND | | nc | 25 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | ND | | nc | 25 |
| 64-17-5 | Ethanol | 1.3 | | 1.3 | | 0 | 25 |
| 100-41-4 | Ethylbenzene | 0.14 | J | 0.14 | J | 0 | 25 |
| 141-78-6 | Ethyl Acetate | 0.13 | J | 0.12 | J | 8 | 25 |
| 622-96-8 | 4-Ethyltoluene | ND | | ND | | nc | 25 |

* = Outside of Control Limits.

# Duplicate Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52638-1DUP | 2W61697.D | 1 | 09/30/22 | TCH | n/a | n/a | V2W2737 |
| JD52638-1 | 2W61696.D | 1 | 09/30/22 | TCH | n/a | n/a | V2W2737 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-9, JD52620-11

| CAS No. | Compound | JD52638-1 ppbv | Q | DUP ppbv | Q | RPD | Limits |
|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | | ND | | nc | 25 |
| 76-14-2 | Freon 114 | ND | | ND | | nc | 25 |
| 142-82-5 | Heptane | 0.12 | J | 0.12 | J | 0 | 25 |
| 87-68-3 | Hexachlorobutadiene | ND | | ND | | nc | 25 |
| 110-54-3 | Hexane | 0.52 | | 0.54 | | 4 | 25 |
| 591-78-6 | 2-Hexanone | 0.37 | | 0.35 | | 6 | 25 |
| 67-63-0 | Isopropyl Alcohol | 0.41 | | 0.44 | | 7 | 25 |
| 75-09-2 | Methylene chloride | 0.65 | | 0.66 | | 2 | 25 |
| 78-93-3 | Methyl ethyl ketone | 0.84 | | 0.79 | | 6 | 25 |
| 108-10-1 | Methyl Isobutyl Ketone | 0.31 | | 0.30 | | 3 | 25 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | ND | | nc | 25 |
| 80-62-6 | Methylmethacrylate | ND | | ND | | nc | 25 |
| 115-07-1 | Propylene | ND | | ND | | nc | 25 |
| 100-42-5 | Styrene | ND | | ND | | nc | 25 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | ND | | nc | 25 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | ND | | nc | 25 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | ND | | nc | 25 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | ND | | nc | 25 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.097 | J | 0.095 | J | 2 | 25 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | ND | | nc | 25 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.17 | J | 0.17 | J | 0 | 25 |
| 75-65-0 | Tertiary Butyl Alcohol | 0.18 | J | 0.18 | J | 0 | 25 |
| 127-18-4 | Tetrachloroethylene | ND | | ND | | nc | 25 |
| 109-99-9 | Tetrahydrofuran | ND | | ND | | nc | 25 |
| 108-88-3 | Toluene | 0.67 | | 0.67 | | 0 | 25 |
| 79-01-6 | Trichloroethylene | 0.048 | | 0.050 | | 4 | 25 |
| 75-69-4 | Trichlorofluoromethane | 0.32 | | 0.33 | | 3 | 25 |
| 75-01-4 | Vinyl chloride | ND | | ND | | nc | 25 |
| 108-05-4 | Vinyl Acetate | 1.0 | | 1.1 | | 10 | 25 |
| | m,p-Xylene | 0.43 | | 0.41 | | 5 | 25 |
| 95-47-6 | o-Xylene | 0.16 | J | 0.17 | J | 6 | 25 |
| 1330-20-7 | Xylenes (total) | 0.59 | | 0.57 | | 3 | 25 |

* = Outside of Control Limits.

# Duplicate Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52638-1DUP | 2W61697.D | 1 | 09/30/22 | TCH | n/a | n/a | V2W2737 |
| JD52638-1 | 2W61696.D | 1 | 09/30/22 | TCH | n/a | n/a | V2W2737 |

**The QC reported here applies to the following samples:** **Method:** TO-15

JD52620-9, JD52620-11

| CAS No. | Surrogate Recoveries | DUP | JD52638-1 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 108% | 107% | 65-128% |

* = Outside of Control Limits.

# Summa Cleaning Certification



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2637-SCC | 2W59315.D | 1 | 05/15/22 | TCH | n/a | n/a | V2W2637 |

**The QC reported here (Summa A236) applies to the following samples:** **Method:** TO-15

Batch CP11732 cleaned 05/12/22: JD52620-11(M230)

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | ND | 0.20 | 0.15 | ppbv | | ND | 0.48 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | ND | 0.20 | 0.084 | ppbv | | ND | 0.44 | ug/m3 |
| 71-43-2 | Benzene | ND | 0.20 | 0.062 | ppbv | | ND | 0.64 | ug/m3 |
| 75-27-4 | Bromodichloromethane | ND | 0.20 | 0.030 | ppbv | | ND | 1.3 | ug/m3 |
| 75-25-2 | Bromoform | ND | 0.20 | 0.071 | ppbv | | ND | 2.1 | ug/m3 |
| 74-83-9 | Bromomethane | ND | 0.20 | 0.069 | ppbv | | ND | 0.78 | ug/m3 |
| 593-60-2 | Bromoethene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 100-44-7 | Benzyl Chloride | ND | 0.20 | 0.13 | ppbv | | ND | 1.0 | ug/m3 |
| 75-15-0 | Carbon disulfide | ND | 0.20 | 0.045 | ppbv | | ND | 0.62 | ug/m3 |
| 108-90-7 | Chlorobenzene | ND | 0.20 | 0.074 | ppbv | | ND | 0.92 | ug/m3 |
| 75-00-3 | Chloroethane | ND | 0.20 | 0.068 | ppbv | | ND | 0.53 | ug/m3 |
| 67-66-3 | Chloroform | ND | 0.20 | 0.037 | ppbv | | ND | 0.98 | ug/m3 |
| 74-87-3 | Chloromethane | ND | 0.20 | 0.090 | ppbv | | ND | 0.41 | ug/m3 |
| 107-05-1 | 3-Chloropropene | ND | 0.20 | 0.083 | ppbv | | ND | 0.63 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.20 | 0.072 | ppbv | | ND | 1.0 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.20 | 0.040 | ppbv | | ND | 1.3 | ug/m3 |
| 110-82-7 | Cyclohexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.69 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.20 | 0.057 | ppbv | | ND | 0.81 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.20 | 0.059 | ppbv | | ND | 0.79 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | 0.20 | 0.097 | ppbv | | ND | 1.5 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.20 | 0.070 | ppbv | | ND | 0.81 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.20 | 0.062 | ppbv | | ND | 0.92 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | ND | 0.20 | 0.12 | ppbv | | ND | 0.72 | ug/m3 |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.20 | 0.032 | ppbv | | ND | 0.99 | ug/m3 |
| 124-48-1 | Dibromochloromethane | ND | 0.20 | 0.052 | ppbv | | ND | 1.7 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.20 | 0.069 | ppbv | | ND | 0.79 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.79 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.20 | 0.062 | ppbv | | ND | 0.91 | ug/m3 |
| 541-73-1 | m-Dichlorobenzene | ND | 0.20 | 0.040 | ppbv | | ND | 1.2 | ug/m3 |
| 95-50-1 | o-Dichlorobenzene | ND | 0.20 | 0.15 | ppbv | | ND | 1.2 | ug/m3 |
| 106-46-7 | p-Dichlorobenzene | ND | 0.20 | 0.19 | ppbv | | ND | 1.2 | ug/m3 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.20 | 0.10 | ppbv | | ND | 0.91 | ug/m3 |
| 64-17-5 | Ethanol | ND | 0.50 | 0.39 | ppbv | | ND | 0.94 | ug/m3 |
| 100-41-4 | Ethylbenzene | ND | 0.20 | 0.061 | ppbv | | ND | 0.87 | ug/m3 |
| 141-78-6 | Ethyl Acetate | ND | 0.20 | 0.10 | ppbv | | ND | 0.72 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | ND | 0.20 | 0.095 | ppbv | | ND | 0.98 | ug/m3 |

# Summa Cleaning Certification

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2637-SCC | 2W59315.D | 1 | 05/15/22 | TCH | n/a | n/a | V2W2637 |



**The QC reported here (Summa A236) applies to the following samples:** **Method:** TO-15

Batch CP11732 cleaned 05/12/22: JD52620-11(M230)

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | 0.20 | 0.031 | ppbv | | ND | 1.5 | ug/m3 |
| 76-14-2 | Freon 114 | ND | 0.20 | 0.050 | ppbv | | ND | 1.4 | ug/m3 |
| 142-82-5 | Heptane | ND | 0.20 | 0.092 | ppbv | | ND | 0.82 | ug/m3 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.20 | 0.062 | ppbv | | ND | 2.1 | ug/m3 |
| 110-54-3 | Hexane | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| 591-78-6 | 2-Hexanone | ND | 0.20 | 0.15 | ppbv | | ND | 0.82 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | ND | 0.20 | 0.14 | ppbv | | ND | 0.49 | ug/m3 |
| 75-09-2 | Methylene chloride | ND | 0.20 | 0.056 | ppbv | | ND | 0.69 | ug/m3 |
| 78-93-3 | Methyl ethyl ketone | ND | 0.20 | 0.11 | ppbv | | ND | 0.59 | ug/m3 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | 0.20 | 0.073 | ppbv | | ND | 0.82 | ug/m3 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.20 | 0.080 | ppbv | | ND | 0.72 | ug/m3 |
| 80-62-6 | Methylmethacrylate | ND | 0.20 | 0.070 | ppbv | | ND | 0.82 | ug/m3 |
| 115-07-1 | Propylene | ND | 0.50 | 0.14 | ppbv | | ND | 0.86 | ug/m3 |
| 100-42-5 | Styrene | ND | 0.20 | 0.12 | ppbv | | ND | 0.85 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.20 | 0.037 | ppbv | | ND | 1.1 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.20 | 0.048 | ppbv | | ND | 1.4 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.20 | 0.038 | ppbv | | ND | 1.1 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.20 | 0.12 | ppbv | | ND | 1.5 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.20 | 0.087 | ppbv | | ND | 0.98 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.20 | 0.080 | ppbv | | ND | 0.98 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | 0.20 | 0.095 | ppbv | | ND | 0.93 | ug/m3 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 0.20 | 0.093 | ppbv | | ND | 0.61 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.040 | 0.014 | ppbv | | ND | 0.27 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | ND | 0.20 | 0.090 | ppbv | | ND | 0.59 | ug/m3 |
| 108-88-3 | Toluene | ND | 0.20 | 0.057 | ppbv | | ND | 0.75 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.040 | 0.019 | ppbv | | ND | 0.21 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.20 | 0.036 | ppbv | | ND | 1.1 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.20 | 0.069 | ppbv | | ND | 0.51 | ug/m3 |
| 108-05-4 | Vinyl Acetate | ND | 0.20 | 0.11 | ppbv | | ND | 0.70 | ug/m3 |
| | m,p-Xylene | ND | 0.20 | 0.14 | ppbv | | ND | 0.87 | ug/m3 |
| 95-47-6 | o-Xylene | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |
| 1330-20-7 | Xylenes (total) | ND | 0.20 | 0.077 | ppbv | | ND | 0.87 | ug/m3 |

# Summa Cleaning Certification

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2637-SCC | 2W59315.D | 1 | 05/15/22 | TCH | n/a | n/a | V2W2637 |

**The QC reported here (Summa A236) applies to the following samples:** **Method:** TO-15

Batch CP11732 cleaned 05/12/22: JD52620-11(M230)

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 96% | 65-128% |

# Summa Cleaning Certification



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2710-SCC | 2W61037.D | 1 | 08/25/22 | TCH | n/a | n/a | V2W2710 |

**The QC reported here (Summa A497) applies to the following samples:** **Method:** TO-15

Batch CP11848 cleaned 08/09/22: JD52620-1(A676), JD52620-2(A418), JD52620-3(A797), JD52620-6(M430), JD52620-7(M462), JD52620-8(A1152), JD52620-9(A534), JD52620-10(A1105), JD52620-12(A599), JD52620-13(M200)

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | ND | 0.80 | 0.58 | ppbv | | ND | 1.9 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | ND | 0.80 | 0.34 | ppbv | | ND | 1.8 | ug/m3 |
| 71-43-2 | Benzene | ND | 0.80 | 0.25 | ppbv | | ND | 2.6 | ug/m3 |
| 75-27-4 | Bromodichloromethane | ND | 0.80 | 0.12 | ppbv | | ND | 5.4 | ug/m3 |
| 75-25-2 | Bromoform | ND | 0.80 | 0.28 | ppbv | | ND | 8.3 | ug/m3 |
| 74-83-9 | Bromomethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.1 | ug/m3 |
| 593-60-2 | Bromoethene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | ug/m3 |
| 100-44-7 | Benzyl Chloride | ND | 0.80 | 0.50 | ppbv | | ND | 4.1 | ug/m3 |
| 75-15-0 | Carbon disulfide | ND | 0.80 | 0.18 | ppbv | | ND | 2.5 | ug/m3 |
| 108-90-7 | Chlorobenzene | ND | 0.80 | 0.30 | ppbv | | ND | 3.7 | ug/m3 |
| 75-00-3 | Chloroethane | ND | 0.80 | 0.27 | ppbv | | ND | 2.1 | ug/m3 |
| 67-66-3 | Chloroform | ND | 0.80 | 0.15 | ppbv | | ND | 3.9 | ug/m3 |
| 74-87-3 | Chloromethane | ND | 0.80 | 0.36 | ppbv | | ND | 1.7 | ug/m3 |
| 107-05-1 | 3-Chloropropene | ND | 0.80 | 0.33 | ppbv | | ND | 2.5 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.80 | 0.29 | ppbv | | ND | 4.1 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.80 | 0.16 | ppbv | | ND | 5.0 | ug/m3 |
| 110-82-7 | Cyclohexane | ND | 0.80 | 0.44 | ppbv | | ND | 2.8 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.80 | 0.23 | ppbv | | ND | 3.2 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.80 | 0.24 | ppbv | | ND | 3.2 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | 0.80 | 0.39 | ppbv | | ND | 6.1 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.80 | 0.25 | ppbv | | ND | 3.7 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | ND | 0.80 | 0.47 | ppbv | | ND | 2.9 | ug/m3 |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.80 | 0.13 | ppbv | | ND | 4.0 | ug/m3 |
| 124-48-1 | Dibromochloromethane | ND | 0.80 | 0.21 | ppbv | | ND | 6.8 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.2 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.80 | 0.25 | ppbv | | ND | 3.6 | ug/m3 |
| 541-73-1 | m-Dichlorobenzene | ND | 0.80 | 0.16 | ppbv | | ND | 4.8 | ug/m3 |
| 95-50-1 | o-Dichlorobenzene | ND | 0.80 | 0.62 | ppbv | | ND | 4.8 | ug/m3 |
| 106-46-7 | p-Dichlorobenzene | ND | 0.80 | 0.76 | ppbv | | ND | 4.8 | ug/m3 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.80 | 0.40 | ppbv | | ND | 3.6 | ug/m3 |
| 64-17-5 | Ethanol | ND | 2.0 | 1.6 | ppbv | | ND | 3.8 | ug/m3 |
| 100-41-4 | Ethylbenzene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | ug/m3 |
| 141-78-6 | Ethyl Acetate | ND | 0.80 | 0.42 | ppbv | | ND | 2.9 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | ND | 0.80 | 0.38 | ppbv | | ND | 3.9 | ug/m3 |

# Summa Cleaning Certification



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2710-SCC | 2W61037.D | 1 | 08/25/22 | TCH | n/a | n/a | V2W2710 |



**The QC reported here (Summa A497) applies to the following samples:** **Method:** TO-15

Batch CP11848 cleaned 08/09/22: JD52620-1(A676), JD52620-2(A418), JD52620-3(A797), JD52620-6(M430), JD52620-7(M462), JD52620-8(A1152), JD52620-9(A534), JD52620-10(A1105), JD52620-12(A599), JD52620-13(M200)

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | 0.80 | 0.12 | ppbv | | ND | 6.1 | ug/m3 |
| 76-14-2 | Freon 114 | ND | 0.80 | 0.20 | ppbv | | ND | 5.6 | ug/m3 |
| 142-82-5 | Heptane | ND | 0.80 | 0.37 | ppbv | | ND | 3.3 | ug/m3 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.80 | 0.25 | ppbv | | ND | 8.5 | ug/m3 |
| 110-54-3 | Hexane | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | ug/m3 |
| 591-78-6 | 2-Hexanone | ND | 0.80 | 0.58 | ppbv | | ND | 3.3 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | ND | 0.80 | 0.56 | ppbv | | ND | 2.0 | ug/m3 |
| 75-09-2 | Methylene chloride | ND | 0.80 | 0.22 | ppbv | | ND | 2.8 | ug/m3 |
| 78-93-3 | Methyl ethyl ketone | ND | 0.80 | 0.44 | ppbv | | ND | 2.4 | ug/m3 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | 0.80 | 0.29 | ppbv | | ND | 3.3 | ug/m3 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.80 | 0.32 | ppbv | | ND | 2.9 | ug/m3 |
| 80-62-6 | Methylmethacrylate | ND | 0.80 | 0.28 | ppbv | | ND | 3.3 | ug/m3 |
| 115-07-1 | Propylene | ND | 2.0 | 0.57 | ppbv | | ND | 3.4 | ug/m3 |
| 100-42-5 | Styrene | ND | 0.80 | 0.47 | ppbv | | ND | 3.4 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.80 | 0.15 | ppbv | | ND | 4.4 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.80 | 0.19 | ppbv | | ND | 5.5 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.80 | 0.15 | ppbv | | ND | 4.4 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.80 | 0.48 | ppbv | | ND | 5.9 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.80 | 0.35 | ppbv | | ND | 3.9 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.80 | 0.32 | ppbv | | ND | 3.9 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | 0.80 | 0.38 | ppbv | | ND | 3.7 | ug/m3 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 0.80 | 0.37 | ppbv | | ND | 2.4 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.16 | 0.056 | ppbv | | ND | 1.1 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | ND | 0.80 | 0.36 | ppbv | | ND | 2.4 | ug/m3 |
| 108-88-3 | Toluene | ND | 0.80 | 0.23 | ppbv | | ND | 3.0 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.16 | 0.076 | ppbv | | ND | 0.86 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.80 | 0.14 | ppbv | | ND | 4.5 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.80 | 0.28 | ppbv | | ND | 2.0 | ug/m3 |
| 108-05-4 | Vinyl Acetate | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | ug/m3 |
| | m,p-Xylene | ND | 0.80 | 0.56 | ppbv | | ND | 3.5 | ug/m3 |
| 95-47-6 | o-Xylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | ug/m3 |
| 1330-20-7 | Xylenes (total) | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | ug/m3 |

# Summa Cleaning Certification



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2710-SCC | 2W61037.D | 1 | 08/25/22 | TCH | n/a | n/a | V2W2710 |

**The QC reported here (Summa A497) applies to the following samples:** **Method:** TO-15

Batch CP11848 cleaned 08/09/22: JD52620-1(A676), JD52620-2(A418), JD52620-3(A797), JD52620-6(M430), JD52620-7(M462), JD52620-8(A1152), JD52620-9(A534), JD52620-10(A1105), JD52620-12(A599), JD52620-13(M200)

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 96% | 65-128% |

# Summa Cleaning Certification



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2714-SCC | 2W61172.D | 1 | 08/31/22 | WC | n/a | n/a | V2W2714 |

**The QC reported here (Summa A1564) applies to the following samples:** **Method:** TO-15

Batch CP11860 cleaned 08/23/22: JD52620-4(A504), JD52620-5(M180), JD52620-11(A791)

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone (2-Propanone) | ND | 0.80 | 0.58 | ppbv | | ND | 1.9 | ug/m3 |
| 106-99-0 | 1,3-Butadiene | ND | 0.80 | 0.34 | ppbv | | ND | 1.8 | ug/m3 |
| 71-43-2 | Benzene | ND | 0.80 | 0.25 | ppbv | | ND | 2.6 | ug/m3 |
| 75-27-4 | Bromodichloromethane | ND | 0.80 | 0.12 | ppbv | | ND | 5.4 | ug/m3 |
| 75-25-2 | Bromoform | ND | 0.80 | 0.28 | ppbv | | ND | 8.3 | ug/m3 |
| 74-83-9 | Bromomethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.1 | ug/m3 |
| 593-60-2 | Bromoethene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | ug/m3 |
| 100-44-7 | Benzyl Chloride | ND | 0.80 | 0.50 | ppbv | | ND | 4.1 | ug/m3 |
| 75-15-0 | Carbon disulfide | ND | 0.80 | 0.18 | ppbv | | ND | 2.5 | ug/m3 |
| 108-90-7 | Chlorobenzene | ND | 0.80 | 0.30 | ppbv | | ND | 3.7 | ug/m3 |
| 75-00-3 | Chloroethane | ND | 0.80 | 0.27 | ppbv | | ND | 2.1 | ug/m3 |
| 67-66-3 | Chloroform | ND | 0.80 | 0.15 | ppbv | | ND | 3.9 | ug/m3 |
| 74-87-3 | Chloromethane | ND | 0.80 | 0.36 | ppbv | | ND | 1.7 | ug/m3 |
| 107-05-1 | 3-Chloropropene | ND | 0.80 | 0.33 | ppbv | | ND | 2.5 | ug/m3 |
| 95-49-8 | 2-Chlorotoluene | ND | 0.80 | 0.29 | ppbv | | ND | 4.1 | ug/m3 |
| 56-23-5 | Carbon tetrachloride | ND | 0.80 | 0.16 | ppbv | | ND | 5.0 | ug/m3 |
| 110-82-7 | Cyclohexane | ND | 0.80 | 0.44 | ppbv | | ND | 2.8 | ug/m3 |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.80 | 0.23 | ppbv | | ND | 3.2 | ug/m3 |
| 75-35-4 | 1,1-Dichloroethylene | ND | 0.80 | 0.24 | ppbv | | ND | 3.2 | ug/m3 |
| 106-93-4 | 1,2-Dibromoethane (EDB) | ND | 0.80 | 0.39 | ppbv | | ND | 6.1 | ug/m3 |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | ug/m3 |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.80 | 0.25 | ppbv | | ND | 3.7 | ug/m3 |
| 123-91-1 | 1,4-Dioxane | ND | 0.80 | 0.47 | ppbv | | ND | 2.9 | ug/m3 |
| 75-71-8 | Dichlorodifluoromethane | ND | 0.80 | 0.13 | ppbv | | ND | 4.0 | ug/m3 |
| 124-48-1 | Dibromochloromethane | ND | 0.80 | 0.21 | ppbv | | ND | 6.8 | ug/m3 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 0.80 | 0.28 | ppbv | | ND | 3.2 | ug/m3 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.2 | ug/m3 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.80 | 0.25 | ppbv | | ND | 3.6 | ug/m3 |
| 541-73-1 | m-Dichlorobenzene | ND | 0.80 | 0.16 | ppbv | | ND | 4.8 | ug/m3 |
| 95-50-1 | o-Dichlorobenzene | ND | 0.80 | 0.62 | ppbv | | ND | 4.8 | ug/m3 |
| 106-46-7 | p-Dichlorobenzene | ND | 0.80 | 0.76 | ppbv | | ND | 4.8 | ug/m3 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.80 | 0.40 | ppbv | | ND | 3.6 | ug/m3 |
| 64-17-5 | Ethanol | ND | 2.0 | 1.6 | ppbv | | ND | 3.8 | ug/m3 |
| 100-41-4 | Ethylbenzene | ND | 0.80 | 0.24 | ppbv | | ND | 3.5 | ug/m3 |
| 141-78-6 | Ethyl Acetate | ND | 0.80 | 0.42 | ppbv | | ND | 2.9 | ug/m3 |
| 622-96-8 | 4-Ethyltoluene | ND | 0.80 | 0.38 | ppbv | | ND | 3.9 | ug/m3 |

# Summa Cleaning Certification

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2714-SCC | 2W61172.D | 1 | 08/31/22 | WC | n/a | n/a | V2W2714 |

**The QC reported here (Summa A1564) applies to the following samples:** **Method:** TO-15

Batch CP11860 cleaned 08/23/22: JD52620-4(A504), JD52620-5(M180), JD52620-11(A791)

| CAS No. | Compound | Result | RL | MDL | Units | Q | Result | RL | Units |
|---|---|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | ND | 0.80 | 0.12 | ppbv | | ND | 6.1 | ug/m3 |
| 76-14-2 | Freon 114 | ND | 0.80 | 0.20 | ppbv | | ND | 5.6 | ug/m3 |
| 142-82-5 | Heptane | ND | 0.80 | 0.37 | ppbv | | ND | 3.3 | ug/m3 |
| 87-68-3 | Hexachlorobutadiene | ND | 0.80 | 0.25 | ppbv | | ND | 8.5 | ug/m3 |
| 110-54-3 | Hexane | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | ug/m3 |
| 591-78-6 | 2-Hexanone | ND | 0.80 | 0.58 | ppbv | | ND | 3.3 | ug/m3 |
| 67-63-0 | Isopropyl Alcohol | ND | 0.80 | 0.56 | ppbv | | ND | 2.0 | ug/m3 |
| 75-09-2 | Methylene chloride | ND | 0.80 | 0.22 | ppbv | | ND | 2.8 | ug/m3 |
| 78-93-3 | Methyl ethyl ketone | ND | 0.80 | 0.44 | ppbv | | ND | 2.4 | ug/m3 |
| 108-10-1 | Methyl Isobutyl Ketone | ND | 0.80 | 0.29 | ppbv | | ND | 3.3 | ug/m3 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 0.80 | 0.32 | ppbv | | ND | 2.9 | ug/m3 |
| 80-62-6 | Methylmethacrylate | ND | 0.80 | 0.28 | ppbv | | ND | 3.3 | ug/m3 |
| 115-07-1 | Propylene | ND | 2.0 | 0.57 | ppbv | | ND | 3.4 | ug/m3 |
| 100-42-5 | Styrene | ND | 0.80 | 0.47 | ppbv | | ND | 3.4 | ug/m3 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.80 | 0.15 | ppbv | | ND | 4.4 | ug/m3 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.80 | 0.19 | ppbv | | ND | 5.5 | ug/m3 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.80 | 0.15 | ppbv | | ND | 4.4 | ug/m3 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.80 | 0.48 | ppbv | | ND | 5.9 | ug/m3 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.80 | 0.35 | ppbv | | ND | 3.9 | ug/m3 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.80 | 0.32 | ppbv | | ND | 3.9 | ug/m3 |
| 540-84-1 | 2,2,4-Trimethylpentane | ND | 0.80 | 0.38 | ppbv | | ND | 3.7 | ug/m3 |
| 75-65-0 | Tertiary Butyl Alcohol | ND | 0.80 | 0.37 | ppbv | | ND | 2.4 | ug/m3 |
| 127-18-4 | Tetrachloroethylene | ND | 0.16 | 0.056 | ppbv | | ND | 1.1 | ug/m3 |
| 109-99-9 | Tetrahydrofuran | ND | 0.80 | 0.36 | ppbv | | ND | 2.4 | ug/m3 |
| 108-88-3 | Toluene | ND | 0.80 | 0.23 | ppbv | | ND | 3.0 | ug/m3 |
| 79-01-6 | Trichloroethylene | ND | 0.16 | 0.076 | ppbv | | ND | 0.86 | ug/m3 |
| 75-69-4 | Trichlorofluoromethane | ND | 0.80 | 0.14 | ppbv | | ND | 4.5 | ug/m3 |
| 75-01-4 | Vinyl chloride | ND | 0.80 | 0.28 | ppbv | | ND | 2.0 | ug/m3 |
| 108-05-4 | Vinyl Acetate | ND | 0.80 | 0.45 | ppbv | | ND | 2.8 | ug/m3 |
| | m,p-Xylene | ND | 0.80 | 0.56 | ppbv | | ND | 3.5 | ug/m3 |
| 95-47-6 | o-Xylene | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | ug/m3 |
| 1330-20-7 | Xylenes (total) | ND | 0.80 | 0.31 | ppbv | | ND | 3.5 | ug/m3 |

# Summa Cleaning Certification



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2W2714-SCC | 2W61172.D | 1 | 08/31/22 | WC | n/a | n/a | V2W2714 |

**The QC reported here (Summa A1564) applies to the following samples:** **Method:** TO-15

Batch CP11860 cleaned 08/23/22: JD52620-4(A504), JD52620-5(M180), JD52620-11(A791)

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 94% | 65-128% |

# Instrument Performance Check (BFB)



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2W2619-BFB
**Lab File ID:** 2W58805.D
**Instrument ID:** GCMS2W
**Injection Date:** 04/26/22
**Injection Time:** 12:38

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 89760 | 25.4 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 172117 | 48.8 | | Pass |
| 95 | Base peak, 100% relative abundance | 352832 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 23155 | 6.56 | | Pass |
| 173 | Less than 2.0% of mass 174 | 2236 | 0.63 | (0.90) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 249621 | 70.7 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 17403 | 4.93 | (6.97) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 242859 | 68.8 | (97.3) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 15610 | 4.42 | (6.43) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 | 13:14 | 00:36 | Initial cal 0.04 |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 | 13:50 | 01:12 | Initial cal 0.1 |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 | 14:27 | 01:49 | Initial cal 0.2 |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 | 15:05 | 02:27 | Initial cal 0.5 |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 | 15:42 | 03:04 | Initial cal 5 |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 | 16:18 | 03:40 | Initial cal 10 |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 | 16:55 | 04:17 | Initial cal 20 |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 | 17:37 | 04:59 | Initial cal 40 |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 | 18:20 | 05:42 | Initial cal 50 |
| V2W2619-ICV2619 | 2W58819.D | 04/27/22 | 10:06 | 21:28 | Initial cal verification 10 |

# Instrument Performance Check (BFB)



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2W2637-BFB
**Lab File ID:** 2W59296.D
**Instrument ID:** GCMS2W
**Injection Date:** 05/14/22
**Injection Time:** 14:24

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 126685 | 31.2 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 218880 | 53.9 | | Pass |
| 95 | Base peak, 100% relative abundance | 406336 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 26051 | 6.41 | | Pass |
| 173 | Less than 2.0% of mass 174 | 681 | 0.17 | (0.23) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 290688 | 71.5 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 20408 | 5.02 | (7.02) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 277376 | 68.3 | (95.4) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 17256 | 4.25 | (6.22) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2W2637-CC2619 | 2W59298.D | 05/14/22 | 15:47 | 01:23 | Continuing cal 10 |
| V2W2637-BS | 2W59299.D | 05/14/22 | 16:25 | 02:01 | Blank Spike |
| V2W2637-BSD | 2W59300.D | 05/14/22 | 17:05 | 02:41 | Blank Spike Duplicate |
| V2W2637-MB | 2W59302.D | 05/14/22 | 18:25 | 04:01 | Method Blank |
| ZZZZZZ | 2W59303.D | 05/14/22 | 19:01 | 04:37 | (unrelated sample) |
| ZZZZZZ | 2W59304.D | 05/14/22 | 19:39 | 05:15 | (unrelated sample) |
| ZZZZZZ | 2W59305.D | 05/14/22 | 20:15 | 05:51 | (unrelated sample) |
| JD44674-1 | 2W59306.D | 05/14/22 | 20:53 | 06:29 | (used for QC only; not part of job JD52620) |
| JD44674-1DUP | 2W59307.D | 05/14/22 | 21:31 | 07:07 | Duplicate |
| ZZZZZZ | 2W59309.D | 05/14/22 | 22:44 | 08:20 | (unrelated sample) |
| ZZZZZZ | 2W59311.D | 05/14/22 | 23:57 | 09:33 | (unrelated sample) |
| ZZZZZZ | 2W59313.D | 05/15/22 | 01:10 | 10:46 | (unrelated sample) |
| V2W2637-SCC | 2W59315.D | 05/15/22 | 02:37 | 12:13 | Summa Cleaning Certification |
| V2W2637-SCC | 2W59316.D | 05/15/22 | 10:04 | 19:40 | Summa Cleaning Certification |
| V2W2637-SCC | 2W59317.D | 05/15/22 | 10:47 | 20:23 | Summa Cleaning Certification |
| V2W2637-SCC | 2W59319.D | 05/15/22 | 12:26 | 22:02 | Summa Cleaning Certification |

# Instrument Performance Check (BFB)



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2W2709-BFB
**Lab File ID:** 2W61009.D
**Instrument ID:** GCMS2W
**Injection Date:** 08/19/22
**Injection Time:** 10:50

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 14581 | 21.8 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 32835 | 49.2 | | Pass |
| 95 | Base peak, 100% relative abundance | 66739 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 4420 | 6.62 | | Pass |
| 173 | Less than 2.0% of mass 174 | 243 | 0.36 | (0.44) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 55160 | 82.7 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 3990 | 5.98 | (7.23) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 52933 | 79.3 | (96.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3276 | 4.91 | (6.19) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 | 11:22 | 00:32 | Initial cal 0.04 |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 | 11:55 | 01:05 | Initial cal 0.1 |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 | 12:27 | 01:37 | Initial cal 0.2 |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 | 12:59 | 02:09 | Initial cal 0.5 |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 | 14:02 | 03:12 | Initial cal 5 |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 | 14:34 | 03:44 | Initial cal 10 |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 | 15:08 | 04:18 | Initial cal 20 |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 | 15:45 | 04:55 | Initial cal 40 |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 | 16:25 | 05:35 | Initial cal 50 |
| V2W2709-ICV2709 | 2W61022.D | 08/19/22 | 18:00 | 07:10 | Initial cal verification 10 |

# Instrument Performance Check (BFB)



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2W2710-BFB
**Lab File ID:** 2W61023.D
**Instrument ID:** GCMS2W
**Injection Date:** 08/24/22
**Injection Time:** 19:28

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 15873 | 21.1 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 36171 | 48.0 | | Pass |
| 95 | Base peak, 100% relative abundance | 75325 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 4799 | 6.37 | | Pass |
| 173 | Less than 2.0% of mass 174 | 243 | 0.32 | (0.38) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 64109 | 85.1 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 4578 | 6.08 | (7.14) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 61741 | 82.0 | (96.3) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 4021 | 5.34 | (6.51) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2W2710-CC2709 | 2W61024.D | 08/24/22 | 20:00 | 00:32 | Continuing cal 10 |
| V2W2710-BS | 2W61025.D | 08/24/22 | 20:49 | 01:21 | Blank Spike |
| V2W2710-BSD | 2W61026.D | 08/24/22 | 21:22 | 01:54 | Blank Spike Duplicate |
| V2W2710-MB | 2W61028.D | 08/24/22 | 22:32 | 03:04 | Method Blank |
| V2W2710-SCC | 2W61030.D | 08/24/22 | 23:48 | 04:20 | Summa Cleaning Certification |
| V2W2710-SCC | 2W61031.D | 08/25/22 | 00:26 | 04:58 | Summa Cleaning Certification |
| V2W2710-SCC | 2W61032.D | 08/25/22 | 01:04 | 05:36 | Summa Cleaning Certification |
| V2W2710-SCC | 2W61033.D | 08/25/22 | 01:42 | 06:14 | Summa Cleaning Certification |
| V2W2710-SCC | 2W61034.D | 08/25/22 | 02:20 | 06:52 | Summa Cleaning Certification |
| V2W2710-SCC | 2W61035.D | 08/25/22 | 02:57 | 07:29 | Summa Cleaning Certification |
| V2W2710-SCC | 2W61036.D | 08/25/22 | 03:34 | 08:06 | Summa Cleaning Certification |
| V2W2710-SCC | 2W61037.D | 08/25/22 | 04:06 | 08:38 | Summa Cleaning Certification |
| V2W2710-SCC | 2W61038.D | 08/25/22 | 04:38 | 09:10 | Summa Cleaning Certification |
| V2W2710-SCC | 2W61039.D | 08/25/22 | 05:09 | 09:41 | Summa Cleaning Certification |
| V2W2710-SCC | 2W61040.D | 08/25/22 | 05:40 | 10:12 | Summa Cleaning Certification |
| V2W2710-SCC | 2W61041.D | 08/25/22 | 06:13 | 10:45 | Summa Cleaning Certification |
| V2W2710-SCC | 2W61042.D | 08/25/22 | 06:44 | 11:16 | Summa Cleaning Certification |

# Instrument Performance Check (BFB)



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2W2714-BFB
**Lab File ID:** 2W61139.D
**Instrument ID:** GCMS2W
**Injection Date:** 08/30/22
**Injection Time:** 08:49

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 16722 | 22.9 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 36933 | 50.6 | | Pass |
| 95 | Base peak, 100% relative abundance | 73021 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 4398 | 6.02 | | Pass |
| 173 | Less than 2.0% of mass 174 | 245 | 0.34 | (0.41) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 59720 | 81.8 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 4107 | 5.62 | (6.88) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 59349 | 81.3 | (99.4) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3464 | 4.74 | (5.84) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2W2714-CC2709 | 2W61140.D | 08/30/22 | 09:21 | 00:32 | Continuing cal 10 |
| V2W2714-BS | 2W61141.D | 08/30/22 | 10:20 | 01:31 | Blank Spike |
| V2W2714-BSD | 2W61142.D | 08/30/22 | 10:52 | 02:03 | Blank Spike Duplicate |
| V2W2714-MB | 2W61144.D | 08/30/22 | 12:13 | 03:24 | Method Blank |
| ZZZZZZ | 2W61145.D | 08/30/22 | 12:44 | 03:55 | (unrelated sample) |
| ZZZZZZ | 2W61146.D | 08/30/22 | 13:24 | 04:35 | (unrelated sample) |
| ZZZZZZ | 2W61147.D | 08/30/22 | 14:03 | 05:14 | (unrelated sample) |
| ZZZZZZ | 2W61148.D | 08/30/22 | 14:42 | 05:53 | (unrelated sample) |
| ZZZZZZ | 2W61152.D | 08/30/22 | 16:59 | 08:10 | (unrelated sample) |
| ZZZZZZ | 2W61153.D | 08/30/22 | 17:39 | 08:50 | (unrelated sample) |
| ZZZZZZ | 2W61154.D | 08/30/22 | 18:19 | 09:30 | (unrelated sample) |
| JD50792-4 | 2W61155.D | 08/30/22 | 18:58 | 10:09 | (used for QC only; not part of job JD52620) |
| JD50792-4DUP | 2W61156.D | 08/30/22 | 19:38 | 10:49 | Duplicate |
| ZZZZZZ | 2W61157.D | 08/30/22 | 20:19 | 11:30 | (unrelated sample) |
| ZZZZZZ | 2W61158.D | 08/30/22 | 21:00 | 12:11 | (unrelated sample) |
| ZZZZZZ | 2W61159.D | 08/30/22 | 21:43 | 12:54 | (unrelated sample) |
| ZZZZZZ | 2W61162.D | 08/30/22 | 23:29 | 14:40 | (unrelated sample) |
| ZZZZZZ | 2W61164.D | 08/31/22 | 00:49 | 16:00 | (unrelated sample) |
| ZZZZZZ | 2W61165.D | 08/31/22 | 01:27 | 16:38 | (unrelated sample) |
| ZZZZZZ | 2W61166.D | 08/31/22 | 02:00 | 17:11 | (unrelated sample) |
| ZZZZZZ | 2W61167.D | 08/31/22 | 02:32 | 17:43 | (unrelated sample) |
| ZZZZZZ | 2W61168.D | 08/31/22 | 03:04 | 18:15 | (unrelated sample) |
| ZZZZZZ | 2W61169.D | 08/31/22 | 03:36 | 18:47 | (unrelated sample) |
| ZZZZZZ | 2W61170.D | 08/31/22 | 04:11 | 19:22 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Sample:** | V2W2714-BFB | **Injection Date:** | 08/30/22 |
| **Lab File ID:** | 2W61139.D | **Injection Time:** | 08:49 |
| **Instrument ID:** | GCMS2W | | |

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| ZZZZZZ | 2W61171.D | 08/31/22 | 04:44 | 19:55 | (unrelated sample) |
| V2W2714-SCC | 2W61172.D | 08/31/22 | 05:16 | 20:27 | Summa Cleaning Certification |
| V2W2714-SCC | 2W61173.D | 08/31/22 | 05:48 | 20:59 | Summa Cleaning Certification |
| V2W2714-SCC | 2W61174.D | 08/31/22 | 06:20 | 21:31 | Summa Cleaning Certification |
| V2W2714-SCC | 2W61176.D | 08/31/22 | 07:34 | 22:45 | Summa Cleaning Certification |

# Instrument Performance Check (BFB)



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2W2735-BFB
**Lab File ID:** 2W61632.D
**Instrument ID:** GCMS2W
**Injection Date:** 09/28/22
**Injection Time:** 07:23

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 14046 | 20.9 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 34277 | 51.1 | | Pass |
| 95 | Base peak, 100% relative abundance | 67136 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 4157 | 6.19 | | Pass |
| 173 | Less than 2.0% of mass 174 | 310 | 0.46 | (0.55) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 55933 | 83.3 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 3892 | 5.80 | (6.96) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 52349 | 78.0 | (93.6) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3689 | 5.49 | (7.05) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2W2735-CC2709 | 2W61633.D | 09/28/22 | 07:54 | 00:31 | Continuing cal 10 |
| V2W2735-BS | 2W61634.D | 09/28/22 | 08:44 | 01:21 | Blank Spike |
| V2W2735-BSD | 2W61635.D | 09/28/22 | 09:16 | 01:53 | Blank Spike Duplicate |
| V2W2735-MB | 2W61637.D | 09/28/22 | 10:50 | 03:27 | Method Blank |
| ZZZZZZ | 2W61638.D | 09/28/22 | 12:40 | 05:17 | (unrelated sample) |
| JD52482-2 | 2W61639.D | 09/28/22 | 13:12 | 05:49 | (used for QC only; not part of job JD52620) |
| JD52482-2DUP | 2W61640.D | 09/28/22 | 13:44 | 06:21 | Duplicate |
| ZZZZZZ | 2W61642.D | 09/28/22 | 14:48 | 07:25 | (unrelated sample) |
| ZZZZZZ | 2W61643.D | 09/28/22 | 15:19 | 07:56 | (unrelated sample) |
| ZZZZZZ | 2W61644.D | 09/28/22 | 15:52 | 08:29 | (unrelated sample) |
| ZZZZZZ | 2W61645.D | 09/28/22 | 16:23 | 09:00 | (unrelated sample) |
| ZZZZZZ | 2W61646.D | 09/28/22 | 17:02 | 09:39 | (unrelated sample) |
| ZZZZZZ | 2W61647.D | 09/28/22 | 17:34 | 10:11 | (unrelated sample) |
| ZZZZZZ | 2W61648.D | 09/28/22 | 18:06 | 10:43 | (unrelated sample) |
| ZZZZZZ | 2W61649.D | 09/28/22 | 18:44 | 11:21 | (unrelated sample) |
| JD52620-1 | 2W61650.D | 09/28/22 | 19:16 | 11:53 | EW-1-62C |
| JD52620-2 | 2W61651.D | 09/28/22 | 19:49 | 12:26 | EW-2-62C |

# Instrument Performance Check (BFB)



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2W2736-BFB
**Lab File ID:** 2W61652.D
**Instrument ID:** GCMS2W
**Injection Date:** 09/29/22
**Injection Time:** 07:11

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 12788 | 20.8 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 31859 | 51.9 | | Pass |
| 95 | Base peak, 100% relative abundance | 61363 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 4125 | 6.72 | | Pass |
| 173 | Less than 2.0% of mass 174 | 234 | 0.38 | (0.45) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 52013 | 84.8 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 3397 | 5.54 | (6.53) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 48915 | 79.7 | (94.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3280 | 5.35 | (6.71) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2W2736-CC2709 | 2W61653.D | 09/29/22 | 07:42 | 00:31 | Continuing cal 10 |
| V2W2736-BS | 2W61654.D | 09/29/22 | 08:23 | 01:12 | Blank Spike |
| V2W2736-BSD | 2W61655.D | 09/29/22 | 08:55 | 01:44 | Blank Spike Duplicate |
| V2W2736-MB | 2W61657.D | 09/29/22 | 10:25 | 03:14 | Method Blank |
| JD52620-13 | 2W61658.D | 09/29/22 | 12:44 | 05:33 | TRIP BLANK |
| JD52620-3 | 2W61659.D | 09/29/22 | 13:15 | 06:04 | EW-3-60C |
| JD52620-4 | 2W61660.D | 09/29/22 | 13:47 | 06:36 | EW-4-25B |
| JD52620-5 | 2W61661.D | 09/29/22 | 14:39 | 07:28 | EW-5-25B |
| JD52620-6 | 2W61662.D | 09/29/22 | 15:12 | 08:01 | EW-6-60C |
| JD52620-7 | 2W61663.D | 09/29/22 | 15:44 | 08:33 | EW-7-25B |
| JD52620-8 | 2W61664.D | 09/29/22 | 16:16 | 09:05 | EW-8-62C |
| JD52620-8DUP | 2W61665.D | 09/29/22 | 16:48 | 09:37 | Duplicate |
| JD52620-9 | 2W61666.D | 09/29/22 | 17:19 | 10:08 | EW-9R-72C |
| JD52620-10 | 2W61667.D | 09/29/22 | 17:52 | 10:41 | EW-10-25B |
| JD52620-12 | 2W61669.D | 09/29/22 | 18:55 | 11:44 | EW-12-45C |
| ZZZZZZ | 2W61670.D | 09/29/22 | 19:33 | 12:22 | (unrelated sample) |
| ZZZZZZ | 2W61671.D | 09/29/22 | 20:05 | 12:54 | (unrelated sample) |
| ZZZZZZ | 2W61672.D | 09/29/22 | 20:37 | 13:26 | (unrelated sample) |
| ZZZZZZ | 2W61673.D | 09/29/22 | 21:09 | 13:58 | (unrelated sample) |
| ZZZZZZ | 2W61674.D | 09/29/22 | 21:41 | 14:30 | (unrelated sample) |
| ZZZZZZ | 2W61675.D | 09/29/22 | 22:13 | 15:02 | (unrelated sample) |
| ZZZZZZ | 2W61676.D | 09/29/22 | 22:46 | 15:35 | (unrelated sample) |
| V2W2736-SCC | 2W61679.D | 09/30/22 | 00:26 | 17:15 | Summa Cleaning Certification |
| V2W2736-SCC | 2W61680.D | 09/30/22 | 00:57 | 17:46 | Summa Cleaning Certification |

# Instrument Performance Check (BFB)



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Sample:** | V2W2736-BFB | **Injection Date:** | 09/29/22 |
| **Lab File ID:** | 2W61652.D | **Injection Time:** | 07:11 |
| **Instrument ID:** | GCMS2W | | |

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2W2736-SCC | 2W61681.D | 09/30/22 | 01:29 | 18:18 | Summa Cleaning Certification |
| V2W2736-SCC | 2W61682.D | 09/30/22 | 02:00 | 18:49 | Summa Cleaning Certification |
| V2W2736-SCC | 2W61683.D | 09/30/22 | 02:32 | 19:21 | Summa Cleaning Certification |

# Instrument Performance Check (BFB)



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2W2737-BFB
**Lab File ID:** 2W61684.D
**Instrument ID:** GCMS2W
**Injection Date:** 09/30/22
**Injection Time:** 07:04

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 15039 | 21.3 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 35157 | 49.8 | | Pass |
| 95 | Base peak, 100% relative abundance | 70539 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 4791 | 6.79 | | Pass |
| 173 | Less than 2.0% of mass 174 | 269 | 0.38 | (0.46) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 57936 | 82.1 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 4262 | 6.04 | (7.36) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 55877 | 79.2 | (96.4) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3876 | 5.49 | (6.94) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2W2737-CC2709 | 2W61685.D | 09/30/22 | 07:35 | 00:31 | Continuing cal 10 |
| V2W2737-BS | 2W61686.D | 09/30/22 | 08:44 | 01:40 | Blank Spike |
| V2W2737-BSD | 2W61687.D | 09/30/22 | 09:16 | 02:12 | Blank Spike Duplicate |
| V2W2737-MB | 2W61689.D | 09/30/22 | 10:47 | 03:43 | Method Blank |
| V2W2737-SCC | 2W61690.D | 09/30/22 | 11:34 | 04:30 | Summa Cleaning Certification |
| JD52620-11 | 2W61692.D | 09/30/22 | 12:43 | 05:39 | EW-11-43C |
| JD52620-9 | 2W61693.D | 09/30/22 | 13:15 | 06:11 | EW-9R-72C |
| ZZZZZZ | 2W61694.D | 09/30/22 | 13:47 | 06:43 | (unrelated sample) |
| ZZZZZZ | 2W61695.D | 09/30/22 | 14:20 | 07:16 | (unrelated sample) |
| JD52638-1 | 2W61696.D | 09/30/22 | 14:58 | 07:54 | (used for QC only; not part of job JD52620) |
| JD52638-1DUP | 2W61697.D | 09/30/22 | 15:37 | 08:33 | Duplicate |
| ZZZZZZ | 2W61698.D | 09/30/22 | 16:08 | 09:04 | (unrelated sample) |
| ZZZZZZ | 2W61699.D | 09/30/22 | 16:41 | 09:37 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V6W1105-BFB
**Lab File ID:** 6W26001.D
**Instrument ID:** GCMS6W
**Injection Date:** 09/15/22
**Injection Time:** 09:18

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 8757 | 23.5 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 19024 | 51.1 | | Pass |
| 95 | Base peak, 100% relative abundance | 37205 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 2301 | 6.18 | | Pass |
| 173 | Less than 2.0% of mass 174 | 272 | 0.73 | (0.92) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 29547 | 79.4 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 2242 | 6.03 | (7.59) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 28755 | 77.3 | (97.3) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 1772 | 4.76 | (6.16) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 | 11:32 | 02:14 | Initial cal 0.2 |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 | 12:06 | 02:48 | Initial cal 0.5 |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 | 13:12 | 03:54 | Initial cal 5 |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 | 13:46 | 04:28 | Initial cal 10 |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 | 14:22 | 05:04 | Initial cal 20 |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 | 15:01 | 05:43 | Initial cal 40 |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 | 15:43 | 06:25 | Initial cal 50 |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 | 17:22 | 08:04 | Initial cal 0.04 |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 | 17:55 | 08:37 | Initial cal 0.1 |
| V6W1105-ICV1105 | 6W26016.D | 09/16/22 | 08:30 | 23:12 | Initial cal verification 10 |

# Instrument Performance Check (BFB)



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V6W1111-BFB
**Lab File ID:** 6W26133.D
**Instrument ID:** GCMS6W
**Injection Date:** 09/29/22
**Injection Time:** 09:55

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 10378 | 25.9 | | Pass |
| 75 | 30.0 - 66.0% of mass 95 | 21616 | 53.9 | | Pass |
| 95 | Base peak, 100% relative abundance | 40109 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 2549 | 6.36 | | Pass |
| 173 | Less than 2.0% of mass 174 | 116 | 0.29 | (0.40) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 29323 | 73.1 | | Pass |
| 175 | 4.0 - 9.01% of mass 174 | 2071 | 5.16 | (7.06) [a] | Pass |
| 176 | 93.0 - 101.0% of mass 174 | 27925 | 69.6 | (95.2) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 1875 | 4.67 | (6.71) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V6W1111-CC1105 | 6W26135.D | 09/29/22 | 13:13 | 03:18 | Continuing cal 10 |
| V6W1111-BS | 6W26138.D | 09/29/22 | 15:45 | 05:50 | Blank Spike |
| V6W1111-BSD | 6W26139.D | 09/29/22 | 16:28 | 06:33 | Blank Spike Duplicate |
| V6W1111-MB | 6W26141.D | 09/29/22 | 18:06 | 08:11 | Method Blank |
| ZZZZZZ | 6W26142.D | 09/29/22 | 18:53 | 08:58 | (unrelated sample) |
| JD52615-1 | 6W26143.D | 09/29/22 | 19:34 | 09:39 | (used for QC only; not part of job JD52620) |
| JD52615-1DUP | 6W26144.D | 09/29/22 | 20:17 | 10:22 | Duplicate |
| ZZZZZZ | 6W26145.D | 09/29/22 | 20:57 | 11:02 | (unrelated sample) |
| ZZZZZZ | 6W26146.D | 09/29/22 | 21:40 | 11:45 | (unrelated sample) |
| ZZZZZZ | 6W26147.D | 09/29/22 | 22:21 | 12:26 | (unrelated sample) |
| ZZZZZZ | 6W26148.D | 09/29/22 | 23:03 | 13:08 | (unrelated sample) |
| ZZZZZZ | 6W26149.D | 09/29/22 | 23:44 | 13:49 | (unrelated sample) |
| ZZZZZZ | 6W26150.D | 09/30/22 | 00:26 | 14:31 | (unrelated sample) |
| ZZZZZZ | 6W26151.D | 09/30/22 | 01:07 | 15:12 | (unrelated sample) |
| JD52620-3 | 6W26152.D | 09/30/22 | 01:51 | 15:56 | EW-3-60C |
| JD52620-5 | 6W26153.D | 09/30/22 | 02:34 | 16:39 | EW-5-25B |
| JD52620-6 | 6W26154.D | 09/30/22 | 03:18 | 17:23 | EW-6-60C |
| JD52620-7 | 6W26155.D | 09/30/22 | 04:00 | 18:05 | EW-7-25B |
| JD52620-8 | 6W26156.D | 09/30/22 | 04:43 | 18:48 | EW-8-62C |

# Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V2W2637-CC2619 | **Injection Date:** | 05/14/22 |
| **Lab File ID:** | 2W59298.D | **Injection Time:** | 15:47 |
| **Instrument ID:** | GCMS2W | **Method:** | TO-15 |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| Check Std | 270624 | 3.47 | 1715864 | 4.85 | 1564056 | 10.64 |
| Upper Limit [a] | 378874 | 3.80 | 2402210 | 5.18 | 2189678 | 10.97 |
| Lower Limit [b] | 162374 | 3.14 | 1029518 | 4.52 | 938434 | 10.31 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| V2W2637-BS | 264009 | 3.47 | 1659308 | 4.85 | 1512777 | 10.64 |
| V2W2637-BSD | 263806 | 3.47 | 1667235 | 4.85 | 1491993 | 10.64 |
| V2W2637-MB | 367313 | 3.47 | 1982883 | 4.85 | 1736178 | 10.63 |
| ZZZZZZ | 282686 | 3.47 | 1730409 | 4.85 | 1606011 | 10.64 |
| ZZZZZZ | 271920 | 3.48 | 1701624 | 4.85 | 1560695 | 10.64 |
| ZZZZZZ | 253327 | 3.49 | 1571347 | 4.86 | 1511670 | 10.64 |
| JD44674-1 | 255437 | 3.49 | 1618075 | 4.86 | 1540973 | 10.64 |
| JD44674-1DUP | 256015 | 3.49 | 1592615 | 4.86 | 1518600 | 10.65 |
| ZZZZZZ | 283992 | 3.48 | 1821574 | 4.85 | 1607066 | 10.64 |
| ZZZZZZ | 231838 | 3.57 | 1567265 | 4.94 | 1491609 | 10.68 |
| ZZZZZZ | 267659 | 3.47 | 1629935 | 4.85 | 1493449 | 10.64 |
| V2W2637-SCC | 356412 | 3.47 | 1922318 | 4.85 | 1676349 | 10.63 |
| V2W2637-SCC | 364703 | 3.47 | 1952972 | 4.84 | 1681804 | 10.63 |
| V2W2637-SCC | 361480 | 3.47 | 1942033 | 4.85 | 1695746 | 10.64 |
| V2W2637-SCC | 360510 | 3.47 | 1947169 | 4.85 | 1698162 | 10.63 |

**IS 1** = Bromochloromethane
**IS 2** = 1,4-Difluorobenzene
**IS 3** = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

# Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V2W2710-CC2709 | **Injection Date:** | 08/24/22 |
| **Lab File ID:** | 2W61024.D | **Injection Time:** | 20:00 |
| **Instrument ID:** | GCMS2W | **Method:** | TO-15 |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| Check Std | 74784 | 3.62 | 401710 | 4.93 | 365251 | 10.59 |
| Upper Limit [a] | 104698 | 3.95 | 562394 | 5.26 | 511351 | 10.92 |
| Lower Limit [b] | 44870 | 3.29 | 241026 | 4.60 | 219151 | 10.26 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| V2W2710-BS | 74166 | 3.61 | 390179 | 4.93 | 358568 | 10.59 |
| V2W2710-BSD | 75491 | 3.61 | 403267 | 4.93 | 366769 | 10.59 |
| V2W2710-MB | 69994 | 3.61 | 386625 | 4.93 | 342388 | 10.58 |
| V2W2710-SCC | 70355 | 3.61 | 379872 | 4.92 | 338101 | 10.58 |
| V2W2710-SCC | 68548 | 3.61 | 370097 | 4.93 | 331121 | 10.58 |
| V2W2710-SCC | 67895 | 3.61 | 368067 | 4.93 | 326610 | 10.58 |
| V2W2710-SCC | 66099 | 3.61 | 359986 | 4.92 | 318224 | 10.59 |
| V2W2710-SCC | 64112 | 3.61 | 350107 | 4.92 | 310358 | 10.58 |
| V2W2710-SCC | 65049 | 3.61 | 356838 | 4.93 | 318455 | 10.58 |
| V2W2710-SCC | 64425 | 3.61 | 347937 | 4.93 | 307636 | 10.58 |
| V2W2710-SCC | 63078 | 3.61 | 344220 | 4.93 | 306814 | 10.58 |
| V2W2710-SCC | 62623 | 3.61 | 339564 | 4.92 | 303443 | 10.58 |
| V2W2710-SCC | 62413 | 3.61 | 335881 | 4.93 | 299365 | 10.58 |
| V2W2710-SCC | 63058 | 3.61 | 341146 | 4.92 | 303550 | 10.58 |
| V2W2710-SCC | 60714 | 3.61 | 329792 | 4.93 | 293169 | 10.58 |
| V2W2710-SCC | 61065 | 3.61 | 331000 | 4.93 | 297063 | 10.58 |

**IS 1** = Bromochloromethane
**IS 2** = 1,4-Difluorobenzene
**IS 3** = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

# Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V2W2714-CC2709 | **Injection Date:** | 08/30/22 |
| **Lab File ID:** | 2W61140.D | **Injection Time:** | 09:21 |
| **Instrument ID:** | GCMS2W | **Method:** | TO-15 |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| Check Std | 80923 | 3.61 | 430053 | 4.93 | 388616 | 10.59 |
| Upper Limit [a] | 113292 | 3.94 | 602074 | 5.26 | 544062 | 10.92 |
| Lower Limit [b] | 48554 | 3.28 | 258032 | 4.60 | 233170 | 10.26 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| V2W2714-BS | 80060 | 3.61 | 427447 | 4.93 | 386452 | 10.59 |
| V2W2714-BSD | 85118 | 3.61 | 444683 | 4.93 | 404229 | 10.59 |
| V2W2714-MB | 77018 | 3.61 | 415866 | 4.93 | 362740 | 10.59 |
| ZZZZZZ | 74942 | 3.61 | 407551 | 4.93 | 356952 | 10.59 |
| ZZZZZZ | 78380 | 3.61 | 417166 | 4.93 | 366362 | 10.59 |
| ZZZZZZ | 74698 | 3.61 | 402061 | 4.93 | 359375 | 10.59 |
| ZZZZZZ | 75104 | 3.61 | 397129 | 4.93 | 359119 | 10.59 |
| ZZZZZZ | 75430 | 3.61 | 398905 | 4.93 | 370930 | 10.59 |
| ZZZZZZ | 74661 | 3.62 | 401273 | 4.93 | 368458 | 10.59 |
| ZZZZZZ | 77507 | 3.61 | 412295 | 4.93 | 365970 | 10.59 |
| JD50792-4 | 77254 | 3.61 | 412823 | 4.93 | 368364 | 10.58 |
| JD50792-4DUP | 77325 | 3.61 | 411254 | 4.93 | 364114 | 10.58 |
| ZZZZZZ | 77499 | 3.61 | 412903 | 4.93 | 367507 | 10.59 |
| ZZZZZZ | 78924 | 3.61 | 432588 | 4.93 | 378377 | 10.59 |
| ZZZZZZ | 80683 | 3.61 | 444395 | 4.93 | 383338 | 10.58 |
| ZZZZZZ | 78688 | 3.61 | 421562 | 4.93 | 374425 | 10.58 |
| ZZZZZZ | 76843 | 3.61 | 406070 | 4.93 | 353315 | 10.58 |
| ZZZZZZ | 74239 | 3.61 | 392357 | 4.93 | 338135 | 10.58 |
| ZZZZZZ | 73394 | 3.62 | 390644 | 4.93 | 339693 | 10.59 |
| ZZZZZZ | 69989 | 3.61 | 376976 | 4.93 | 357367 | 10.59 |
| ZZZZZZ | 95241 | 3.62 | 522523 | 4.93 | 478957 | 10.60 |
| ZZZZZZ | 95200 | 3.62 | 512961 | 4.93 | 432338 | 10.59 |
| ZZZZZZ | 88058 | 3.61 | 477280 | 4.93 | 407632 | 10.59 |
| ZZZZZZ | 84855 | 3.62 | 454887 | 4.93 | 386556 | 10.59 |
| V2W2714-SCC | 82868 | 3.61 | 455430 | 4.93 | 384298 | 10.59 |
| V2W2714-SCC | 76374 | 3.61 | 416137 | 4.93 | 359281 | 10.59 |
| V2W2714-SCC | 74964 | 3.61 | 401885 | 4.93 | 354404 | 10.59 |
| V2W2714-SCC | 74788 | 3.61 | 410375 | 4.93 | 360990 | 10.59 |

**IS 1** = Bromochloromethane
**IS 2** = 1,4-Difluorobenzene
**IS 3** = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

# Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V2W2735-CC2709 | **Injection Date:** | 09/28/22 |
| **Lab File ID:** | 2W61633.D | **Injection Time:** | 07:54 |
| **Instrument ID:** | GCMS2W | **Method:** | TO-15 |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| Check Std | 70011 | 3.61 | 365172 | 4.93 | 317821 | 10.59 |
| Upper Limit [a] | 98015 | 3.94 | 511241 | 5.26 | 444949 | 10.92 |
| Lower Limit [b] | 42007 | 3.28 | 219103 | 4.60 | 190693 | 10.26 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| V2W2735-BS | 70966 | 3.61 | 361937 | 4.93 | 312957 | 10.58 |
| V2W2735-BSD | 72997 | 3.61 | 384116 | 4.93 | 328631 | 10.59 |
| V2W2735-MB | 67250 | 3.61 | 357264 | 4.93 | 300667 | 10.58 |
| ZZZZZZ | 68256 | 3.62 | 353745 | 4.94 | 296698 | 10.59 |
| JD52482-2 | 65688 | 3.61 | 345005 | 4.93 | 288089 | 10.59 |
| JD52482-2DUP | 64088 | 3.61 | 331949 | 4.93 | 281207 | 10.59 |
| ZZZZZZ | 65374 | 3.61 | 339601 | 4.93 | 279903 | 10.59 |
| ZZZZZZ | 67743 | 3.61 | 351567 | 4.93 | 289597 | 10.59 |
| ZZZZZZ | 64181 | 3.61 | 339216 | 4.93 | 290107 | 10.58 |
| ZZZZZZ | 59277 | 3.62 | 309269 | 4.94 | 262173 | 10.59 |
| ZZZZZZ | 62622 | 3.61 | 329660 | 4.93 | 281024 | 10.58 |
| ZZZZZZ | 61913 | 3.61 | 326273 | 4.93 | 266792 | 10.59 |
| ZZZZZZ | 61362 | 3.61 | 326606 | 4.93 | 264186 | 10.58 |
| ZZZZZZ | 63433 | 3.61 | 338826 | 4.93 | 294119 | 10.59 |
| JD52620-1 | 62115 | 3.61 | 321757 | 4.93 | 266070 | 10.59 |
| JD52620-2 | 61947 | 3.61 | 323041 | 4.93 | 265444 | 10.59 |

**IS 1** = Bromochloromethane
**IS 2** = 1,4-Difluorobenzene
**IS 3** = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

# Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V2W2736-CC2709 | **Injection Date:** | 09/29/22 |
| **Lab File ID:** | 2W61653.D | **Injection Time:** | 07:42 |
| **Instrument ID:** | GCMS2W | **Method:** | TO-15 |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| Check Std | 63174 | 3.61 | 327482 | 4.93 | 287391 | 10.59 |
| Upper Limit [a] | 88444 | 3.94 | 458475 | 5.26 | 402347 | 10.92 |
| Lower Limit [b] | 37904 | 3.28 | 196489 | 4.60 | 172435 | 10.26 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| V2W2736-BS | 65760 | 3.61 | 342332 | 4.93 | 293659 | 10.58 |
| V2W2736-BSD | 69414 | 3.61 | 361827 | 4.93 | 313302 | 10.59 |
| V2W2736-MB | 64927 | 3.61 | 338162 | 4.93 | 278029 | 10.58 |
| JD52620-13 | 62557 | 3.61 | 321800 | 4.92 | 274731 | 10.58 |
| JD52620-3 | 60403 | 3.61 | 314817 | 4.93 | 265639 | 10.59 |
| JD52620-4 | 61641 | 3.61 | 318219 | 4.93 | 263160 | 10.58 |
| JD52620-5 | 59066 | 3.61 | 312847 | 4.93 | 258844 | 10.59 |
| JD52620-6 | 59802 | 3.61 | 309887 | 4.93 | 259770 | 10.59 |
| JD52620-7 | 60578 | 3.61 | 318076 | 4.93 | 261635 | 10.59 |
| JD52620-8 | 61526 | 3.61 | 318261 | 4.93 | 264554 | 10.59 |
| JD52620-8DUP | 57780 | 3.61 | 306465 | 4.93 | 254218 | 10.59 |
| JD52620-9 | 58921 | 3.61 | 304403 | 4.93 | 250840 | 10.59 |
| JD52620-10 | 61241 | 3.61 | 314285 | 4.93 | 255519 | 10.59 |
| JD52620-12 | 59188 | 3.61 | 304865 | 4.93 | 251451 | 10.59 |
| ZZZZZZ | 58521 | 3.61 | 303102 | 4.93 | 250850 | 10.58 |
| ZZZZZZ | 59168 | 3.62 | 303958 | 4.94 | 250642 | 10.59 |
| ZZZZZZ | 58575 | 3.61 | 304082 | 4.93 | 245385 | 10.59 |
| ZZZZZZ | 58124 | 3.61 | 303745 | 4.93 | 244945 | 10.58 |
| ZZZZZZ | 57941 | 3.61 | 298671 | 4.93 | 245965 | 10.59 |
| ZZZZZZ | 59072 | 3.61 | 306196 | 4.93 | 250387 | 10.59 |
| ZZZZZZ | 60033 | 3.61 | 304792 | 4.93 | 249344 | 10.59 |
| V2W2736-SCC | 54998 | 3.61 | 284914 | 4.93 | 237636 | 10.58 |
| V2W2736-SCC | 53981 | 3.61 | 274927 | 4.93 | 232072 | 10.58 |
| V2W2736-SCC | 52640 | 3.61 | 277273 | 4.93 | 230504 | 10.59 |
| V2W2736-SCC | 51249 | 3.61 | 267456 | 4.93 | 221799 | 10.59 |
| V2W2736-SCC | 52002 | 3.61 | 267070 | 4.93 | 222645 | 10.59 |

**IS 1** = Bromochloromethane
**IS 2** = 1,4-Difluorobenzene
**IS 3** = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

# Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V2W2737-CC2709 | **Injection Date:** | 09/30/22 |
| **Lab File ID:** | 2W61685.D | **Injection Time:** | 07:35 |
| **Instrument ID:** | GCMS2W | **Method:** | TO-15 |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| Check Std | 73003 | 3.61 | 381947 | 4.93 | 328783 | 10.59 |
| Upper Limit [a] | 102204 | 3.94 | 534726 | 5.26 | 460296 | 10.92 |
| Lower Limit [b] | 43802 | 3.28 | 229168 | 4.60 | 197270 | 10.26 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| V2W2737-BS | 75863 | 3.61 | 391798 | 4.93 | 334087 | 10.59 |
| V2W2737-BSD | 79697 | 3.61 | 414059 | 4.93 | 356338 | 10.59 |
| V2W2737-MB | 74416 | 3.61 | 386070 | 4.93 | 321362 | 10.58 |
| V2W2737-SCC | 71862 | 3.61 | 372223 | 4.93 | 311922 | 10.58 |
| JD52620-11 | 68493 | 3.61 | 355679 | 4.93 | 308446 | 10.58 |
| JD52620-9 | 65766 | 3.61 | 340075 | 4.93 | 276756 | 10.59 |
| ZZZZZZ | 70003 | 3.63 | 365932 | 4.94 | 311901 | 10.59 |
| ZZZZZZ | 73376 | 3.63 | 384826 | 4.95 | 326688 | 10.60 |
| JD52638-1 | 71119 | 3.61 | 364235 | 4.93 | 307781 | 10.59 |
| JD52638-1DUP | 67402 | 3.61 | 351783 | 4.93 | 302699 | 10.59 |
| ZZZZZZ | 65538 | 3.61 | 340782 | 4.93 | 294228 | 10.59 |
| ZZZZZZ | 69500 | 3.62 | 360985 | 4.94 | 309444 | 10.59 |

**IS 1** = Bromochloromethane
**IS 2** = 1,4-Difluorobenzene
**IS 3** = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

# Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V6W1111-CC1105 | **Injection Date:** | 09/29/22 |
| **Lab File ID:** | 6W26135.D | **Injection Time:** | 13:13 |
| **Instrument ID:** | GCMS6W | **Method:** | TO-15 |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| Check Std | 37706 | 3.34 | 220161 | 4.73 | 163775 | 10.58 |
| Upper Limit [a] | 52788 | 3.67 | 308225 | 5.06 | 229285 | 10.91 |
| Lower Limit [b] | 22624 | 3.01 | 132097 | 4.40 | 98265 | 10.25 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT |
|---|---|---|---|---|---|---|
| V6W1111-BS | 43578 | 3.34 | 242843 | 4.73 | 185817 | 10.58 |
| V6W1111-BSD | 42826 | 3.34 | 239033 | 4.73 | 186339 | 10.59 |
| V6W1111-MB | 42284 | 3.34 | 242632 | 4.73 | 185206 | 10.58 |
| ZZZZZZ | 38568 | 3.34 | 221429 | 4.73 | 166282 | 10.58 |
| JD52615-1 | 38223 | 3.34 | 214100 | 4.73 | 165419 | 10.59 |
| JD52615-1DUP | 37975 | 3.34 | 205808 | 4.73 | 151804 | 10.58 |
| ZZZZZZ | 37813 | 3.34 | 212349 | 4.73 | 164015 | 10.58 |
| ZZZZZZ | 36782 | 3.34 | 198417 | 4.73 | 146323 | 10.58 |
| ZZZZZZ | 36876 | 3.34 | 207709 | 4.73 | 159525 | 10.58 |
| ZZZZZZ | 35924 | 3.34 | 205974 | 4.73 | 150541 | 10.58 |
| ZZZZZZ | 39657 | 3.34 | 224157 | 4.73 | 171567 | 10.58 |
| ZZZZZZ | 37430 | 3.34 | 203436 | 4.73 | 156298 | 10.58 |
| ZZZZZZ | 38956 | 3.34 | 221418 | 4.73 | 163809 | 10.58 |
| JD52620-3 | 40450 | 3.34 | 228036 | 4.73 | 169706 | 10.58 |
| JD52620-5 | 40042 | 3.34 | 225725 | 4.73 | 169595 | 10.58 |
| JD52620-6 | 37766 | 3.34 | 213412 | 4.73 | 159103 | 10.59 |
| JD52620-7 | 36402 | 3.34 | 214214 | 4.73 | 162470 | 10.58 |
| JD52620-8 | 35756 | 3.34 | 205827 | 4.73 | 142488 | 10.58 |

**IS 1** = Bromochloromethane
**IS 2** = 1,4-Difluorobenzene
**IS 3** = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acrolein | 2.23 | 3.47 | 0.643 | ok | 0.643 | 0.583-0.703 |
| Acrylonitrile | 2.41 | 3.47 | 0.695 | ok | 0.693 | 0.633-0.753 |
| Acetonitrile | 2.20 | 3.47 | 0.634 | ok | 0.632 | 0.572-0.692 |
| 1,3-Butadiene | 1.98 | 3.47 | 0.571 | ok | 0.573 | 0.513-0.633 |
| Benzene | 4.50 | 3.47 | 1.297 | ok | 1.298 | 1.238-1.358 |
| Bromobenzene | 14.39 | 10.64 | 1.352 | ok | 1.355 | 1.295-1.415 |
| Bromodichloromethane | 5.40 | 4.85 | 1.113 | ok | 1.115 | 1.055-1.175 |
| Bromoform | 11.85 | 10.64 | 1.114 | ok | 1.115 | 1.055-1.175 |
| Bromomethane | 2.07 | 3.47 | 0.597 | ok | 0.594 | 0.534-0.654 |
| Bromoethene | 2.20 | 3.47 | 0.634 | ok | 0.634 | 0.574-0.694 |
| n-Butane | 2.00 | 3.47 | 0.576 | ok | 0.577 | 0.517-0.637 |
| n-Butylbenzene | 17.60 | 10.64 | 1.654 | ok | 1.654 | 1.594-1.714 |
| sec-Butylbenzene | 17.08 | 10.64 | 1.605 | ok | 1.605 | 1.545-1.665 |
| tert-Butylbenzene | 16.80 | 10.64 | 1.579 | ok | 1.579 | 1.519-1.639 |
| Carbon disulfide | 2.65 | 3.47 | 0.764 | ok | 0.764 | 0.704-0.824 |
| Chlorobenzene | 10.71 | 10.64 | 1.007 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.83 | 3.47 | 0.527 | ok | 0.525 | 0.465-0.585 |
| Chloroethane | 2.10 | 3.47 | 0.605 | ok | 0.606 | 0.546-0.666 |
| Chlorotrifluoroethene | 1.84 | 3.47 | 0.530 | ok | 0.529 | 0.469-0.589 |
| Chloroform | 3.54 | 3.47 | 1.020 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.89 | 3.47 | 0.545 | ok | 0.545 | 0.485-0.605 |
| 3-Chloropropene | 2.59 | 3.47 | 0.746 | ok | 0.748 | 0.688-0.808 |
| 2-Chlorotoluene | 15.53 | 10.64 | 1.460 | ok | 1.461 | 1.401-1.521 |
| Carbon tetrachloride | 4.61 | 3.47 | 1.329 | ok | 1.331 | 1.271-1.391 |
| Cyclohexane | 4.72 | 4.85 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.98 | 3.47 | 0.859 | ok | 0.861 | 0.801-0.921 |
| 1,1-Dichloroethylene | 2.52 | 3.47 | 0.726 | ok | 0.726 | 0.666-0.786 |
| 1,2-Dibromoethane (EDB) | 8.61 | 4.85 | 1.775 | ok | 1.777 | 1.717-1.837 |
| 1,2-Dichloroethane | 3.99 | 3.47 | 1.150 | ok | 1.151 | 1.091-1.211 |
| 1,2-Dichloropropane | 5.21 | 4.85 | 1.074 | ok | 1.076 | 1.016-1.136 |
| 1,3-Dichloropropane | 7.75 | 4.85 | 1.598 | ok | 1.602 | 1.542-1.662 |
| 1,4-Dioxane | 5.51 | 4.85 | 1.136 | ok | 1.132 | 1.072-1.192 |
| Dichlorodifluoromethane | 1.86 | 3.47 | 0.536 | ok | 0.533 | 0.473-0.593 |
| Dichlorofluoromethane | 2.13 | 3.47 | 0.614 | ok | 0.614 | 0.554-0.674 |
| Dibromochloromethane | 8.25 | 4.85 | 1.701 | ok | 1.703 | 1.643-1.763 |
| Dibromomethane | 5.17 | 4.85 | 1.066 | ok | 1.066 | 1.006-1.126 |
| trans-1,2-Dichloroethylene | 2.91 | 3.47 | 0.839 | ok | 0.837 | 0.777-0.897 |
| cis-1,2-Dichloroethylene | 3.39 | 3.47 | 0.977 | ok | 0.977 | 0.917-1.037 |
| cis-1,3-Dichloropropene | 6.44 | 4.85 | 1.328 | ok | 1.328 | 1.268-1.388 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| m-Dichlorobenzene | 16.87 | 10.64 | 1.586 | ok | 1.586 | 1.526-1.646 |
| o-Dichlorobenzene | 17.24 | 10.64 | 1.620 | ok | 1.621 | 1.561-1.681 |
| p-Dichlorobenzene | 16.95 | 10.64 | 1.593 | ok | 1.593 | 1.533-1.653 |
| trans-1,3-Dichloropropene | 7.15 | 4.85 | 1.474 | ok | 1.475 | 1.415-1.535 |
| Di-Isopropyl ether | 3.53 | 3.47 | 1.017 | ok | 1.019 | 0.959-1.079 |
| 2,3-Dimethylpentane | 4.98 | 4.85 | 1.027 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.07 | 3.47 | 1.173 | ok | 1.176 | 1.116-1.236 |
| Ethylbenzene | 11.61 | 10.64 | 1.091 | ok | 1.092 | 1.032-1.152 |
| Ethyl Acetate | 3.53 | 3.47 | 1.017 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.34 | 4.85 | 1.101 | ok | 1.103 | 1.043-1.163 |
| 4-Ethyltoluene | 16.20 | 10.64 | 1.523 | ok | 1.524 | 1.464-1.584 |
| Freon 113 | 2.66 | 3.47 | 0.767 | ok | 0.765 | 0.705-0.825 |
| Freon 114 | 1.93 | 3.47 | 0.556 | ok | 0.554 | 0.494-0.614 |
| Freon 115 | 1.78 | 3.47 | 0.513 | ok | 0.515 | 0.455-0.575 |
| Freon 123 | 2.25 | 3.47 | 0.648 | ok | 0.648 | 0.588-0.708 |
| Freon 123A | 2.26 | 3.47 | 0.651 | ok | 0.651 | 0.591-0.711 |
| Freon 142B | 1.89 | 3.47 | 0.545 | ok | 0.545 | 0.485-0.605 |
| Heptane | 5.88 | 4.85 | 1.212 | ok | 1.214 | 1.154-1.274 |
| Hexachlorobutadiene | 18.81 | 10.64 | 1.768 | ok | 1.768 | 1.708-1.828 |
| Hexachloroethane | 17.78 | 10.64 | 1.671 | ok | 1.671 | 1.611-1.731 |
| Hexane | 3.53 | 3.47 | 1.017 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.29 | 4.85 | 1.709 | ok | 1.712 | 1.652-1.772 |
| Iodomethane | 2.49 | 3.47 | 0.718 | ok | 0.718 | 0.658-0.778 |
| Isopropylbenzene | 14.51 | 10.64 | 1.364 | ok | 1.366 | 1.306-1.426 |
| Isopropyl Alcohol | 2.34 | 3.47 | 0.674 | ok | 0.674 | 0.614-0.734 |
| p-Isopropyltoluene | 17.25 | 10.64 | 1.621 | ok | 1.622 | 1.562-1.682 |
| Methyl ethyl ketone | 3.17 | 3.47 | 0.914 | ok | 0.914 | 0.854-0.974 |
| Methyl Isobutyl Ketone | 6.55 | 4.85 | 1.351 | ok | 1.353 | 1.293-1.413 |
| Methyl Tert Butyl Ether | 3.02 | 3.47 | 0.870 | ok | 0.871 | 0.811-0.931 |
| Methylmethacrylate | 5.79 | 4.85 | 1.194 | ok | 1.194 | 1.134-1.254 |
| Naphthalene | 18.56 | 10.64 | 1.744 | ok | 1.744 | 1.684-1.804 |
| Nonane | 14.11 | 10.64 | 1.326 | ok | 1.328 | 1.268-1.388 |
| Octane | 9.61 | 4.85 | 1.981 | ok | 1.985 | 1.925-2.045 |
| Pentane | 2.43 | 3.47 | 0.700 | ok | 0.701 | 0.641-0.761 |
| n-Propylbenzene | 15.87 | 10.64 | 1.492 | ok | 1.493 | 1.433-1.553 |
| Propylene | 1.84 | 3.47 | 0.530 | ok | 0.528 | 0.468-0.588 |
| Styrene | 12.77 | 10.64 | 1.200 | ok | 1.202 | 1.142-1.262 |
| 1,1,1-Trichloroethane | 4.17 | 3.47 | 1.202 | ok | 1.201 | 1.141-1.261 |
| 1,1,1,2-Tetrachloroethane | 10.72 | 10.64 | 1.008 | ok | 1.009 | 0.949-1.069 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | 13.00 | 10.64 | 1.222 | ok | 1.224 | 1.164-1.284 |
| 1,1,2-Trichloroethane | 7.31 | 4.85 | 1.507 | ok | 1.510 | 1.450-1.570 |
| 1,2,3-Trichloropropane | 13.30 | 10.64 | 1.250 | ok | 1.250 | 1.190-1.310 |
| 1,2,3-Trimethylbenzene | 17.19 | 10.64 | 1.616 | ok | 1.616 | 1.556-1.676 |
| 1,2,4-Trimethylbenzene | 16.81 | 10.64 | 1.580 | ok | 1.580 | 1.520-1.640 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.64 | 1.537 | ok | 1.537 | 1.477-1.597 |
| 2,2,4-Trimethylpentane | 5.55 | 4.85 | 1.144 | ok | 1.146 | 1.086-1.206 |
| Tertiary Butyl Alcohol | 2.54 | 3.47 | 0.732 | ok | 0.730 | 0.670-0.790 |
| Tetrachloroethylene | 9.47 | 4.85 | 1.953 | ok | 1.955 | 1.895-2.015 |
| Tetrahydrofuran | 3.79 | 3.47 | 1.092 | ok | 1.091 | 1.031-1.151 |
| Toluene | 7.69 | 4.85 | 1.586 | ok | 1.588 | 1.528-1.648 |
| Trichloroethylene | 5.45 | 4.85 | 1.124 | ok | 1.125 | 1.065-1.185 |
| Trichlorofluoromethane | 2.32 | 3.47 | 0.669 | ok | 0.669 | 0.609-0.729 |
| Vinyl chloride | 1.95 | 3.47 | 0.562 | ok | 0.563 | 0.503-0.623 |
| m,p-Xylene | 12.04 | 10.64 | 1.132 | ok | 1.133 | 1.073-1.193 |
| o-Xylene | 12.99 | 10.64 | 1.221 | ok | 1.222 | 1.162-1.282 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.47 | ok | 3.47 | 3.14-3.80 | 262405 | ok | 264398 | 158639-370157 |
| 1,4-Difluorobenzene | 4.85 | ok | 4.85 | 4.52-5.18 | 1634490 | ok | 1673779 | 1004267-2343291 |
| Chlorobenzene-D5 | 10.64 | ok | 10.64 | 10.31-10.97 | 1615392 | ok | 1567527 | 940516-2194538 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.27 | 3.46 | 0.656 | ok | 0.654 | 0.594-0.714 |
| Acrolein | 2.23 | 3.46 | 0.645 | ok | 0.643 | 0.583-0.703 |
| Acrylonitrile | 2.40 | 3.46 | 0.694 | ok | 0.693 | 0.633-0.753 |
| Acetonitrile | 2.19 | 3.46 | 0.633 | ok | 0.632 | 0.572-0.692 |
| 1,3-Butadiene | 1.98 | 3.46 | 0.572 | ok | 0.573 | 0.513-0.633 |
| Benzene | 4.50 | 3.46 | 1.301 | ok | 1.298 | 1.238-1.358 |
| Bromobenzene | 14.40 | 10.64 | 1.353 | ok | 1.355 | 1.295-1.415 |
| Bromodichloromethane | 5.40 | 4.85 | 1.113 | ok | 1.115 | 1.055-1.175 |
| Bromoform | 11.86 | 10.64 | 1.115 | ok | 1.115 | 1.055-1.175 |
| Bromomethane | 2.06 | 3.46 | 0.595 | ok | 0.594 | 0.534-0.654 |
| Bromoethene | 2.20 | 3.46 | 0.636 | ok | 0.634 | 0.574-0.694 |
| n-Butane | 2.00 | 3.46 | 0.578 | ok | 0.577 | 0.517-0.637 |
| Benzyl Chloride | 16.88 | 10.64 | 1.586 | ok | 1.588 | 1.528-1.648 |
| n-Butylbenzene | 17.60 | 10.64 | 1.654 | ok | 1.654 | 1.594-1.714 |
| sec-Butylbenzene | 17.08 | 10.64 | 1.605 | ok | 1.605 | 1.545-1.665 |
| tert-Butylbenzene | 16.80 | 10.64 | 1.579 | ok | 1.579 | 1.519-1.639 |
| Carbon disulfide | 2.65 | 3.46 | 0.766 | ok | 0.764 | 0.704-0.824 |
| Chlorobenzene | 10.71 | 10.64 | 1.007 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.82 | 3.46 | 0.526 | ok | 0.525 | 0.465-0.585 |
| Chloroethane | 2.10 | 3.46 | 0.607 | ok | 0.606 | 0.546-0.666 |
| Chlorotrifluoroethene | 1.83 | 3.46 | 0.529 | ok | 0.529 | 0.469-0.589 |
| Chloroform | 3.55 | 3.46 | 1.026 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.89 | 3.46 | 0.546 | ok | 0.545 | 0.485-0.605 |
| 3-Chloropropene | 2.59 | 3.46 | 0.749 | ok | 0.748 | 0.688-0.808 |
| 2-Chlorotoluene | 15.54 | 10.64 | 1.461 | ok | 1.461 | 1.401-1.521 |
| Carbon tetrachloride | 4.61 | 3.46 | 1.332 | ok | 1.331 | 1.271-1.391 |
| Cyclohexane | 4.71 | 4.85 | 0.971 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.98 | 3.46 | 0.861 | ok | 0.861 | 0.801-0.921 |
| 1,1-Dichloroethylene | 2.52 | 3.46 | 0.728 | ok | 0.726 | 0.666-0.786 |
| 1,2-Dibromoethane (EDB) | 8.60 | 4.85 | 1.773 | ok | 1.777 | 1.717-1.837 |
| 1,2-Dichloroethane | 3.99 | 3.46 | 1.153 | ok | 1.151 | 1.091-1.211 |
| 1,2-Dichloropropane | 5.21 | 4.85 | 1.074 | ok | 1.076 | 1.016-1.136 |
| 1,3-Dichloropropane | 7.75 | 4.85 | 1.598 | ok | 1.602 | 1.542-1.662 |
| 1,4-Dioxane | 5.50 | 4.85 | 1.134 | ok | 1.132 | 1.072-1.192 |
| Dichlorodifluoromethane | 1.85 | 3.46 | 0.535 | ok | 0.533 | 0.473-0.593 |
| Dichlorofluoromethane | 2.13 | 3.46 | 0.616 | ok | 0.614 | 0.554-0.674 |
| Dibromochloromethane | 8.25 | 4.85 | 1.701 | ok | 1.703 | 1.643-1.763 |
| Dibromomethane | 5.17 | 4.85 | 1.066 | ok | 1.066 | 1.006-1.126 |
| trans-1,2-Dichloroethylene | 2.90 | 3.46 | 0.838 | ok | 0.837 | 0.777-0.897 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.38 | 3.46 | 0.977 | ok | 0.977 | 0.917-1.037 |
| cis-1,3-Dichloropropene | 6.43 | 4.85 | 1.326 | ok | 1.328 | 1.268-1.388 |
| m-Dichlorobenzene | 16.87 | 10.64 | 1.586 | ok | 1.586 | 1.526-1.646 |
| o-Dichlorobenzene | 17.24 | 10.64 | 1.620 | ok | 1.621 | 1.561-1.681 |
| p-Dichlorobenzene | 16.95 | 10.64 | 1.593 | ok | 1.593 | 1.533-1.653 |
| trans-1,3-Dichloropropene | 7.14 | 4.85 | 1.472 | ok | 1.475 | 1.415-1.535 |
| Di-Isopropyl ether | 3.54 | 3.46 | 1.023 | ok | 1.019 | 0.959-1.079 |
| 2,3-Dimethylpentane | 4.99 | 4.85 | 1.029 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.08 | 3.46 | 1.179 | ok | 1.176 | 1.116-1.236 |
| Ethylbenzene | 11.61 | 10.64 | 1.091 | ok | 1.092 | 1.032-1.152 |
| Ethyl Acetate | 3.54 | 3.46 | 1.023 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.34 | 4.85 | 1.101 | ok | 1.103 | 1.043-1.163 |
| 4-Ethyltoluene | 16.20 | 10.64 | 1.523 | ok | 1.524 | 1.464-1.584 |
| Freon 113 | 2.65 | 3.46 | 0.766 | ok | 0.765 | 0.705-0.825 |
| Freon 114 | 1.92 | 3.46 | 0.555 | ok | 0.554 | 0.494-0.614 |
| Freon 115 | 1.79 | 3.46 | 0.517 | ok | 0.515 | 0.455-0.575 |
| Freon 123 | 2.24 | 3.46 | 0.647 | ok | 0.648 | 0.588-0.708 |
| Freon 123A | 2.26 | 3.46 | 0.653 | ok | 0.651 | 0.591-0.711 |
| Freon 142B | 1.89 | 3.46 | 0.546 | ok | 0.545 | 0.485-0.605 |
| Freon 152A | 1.81 | 3.46 | 0.523 | ok | 0.523 | 0.463-0.583 |
| Heptane | 5.88 | 4.85 | 1.212 | ok | 1.214 | 1.154-1.274 |
| Hexachlorobutadiene | 18.82 | 10.64 | 1.769 | ok | 1.768 | 1.708-1.828 |
| Hexachloroethane | 17.78 | 10.64 | 1.671 | ok | 1.671 | 1.611-1.731 |
| Hexane | 3.52 | 3.46 | 1.017 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.30 | 4.85 | 1.711 | ok | 1.712 | 1.652-1.772 |
| Iodomethane | 2.49 | 3.46 | 0.720 | ok | 0.718 | 0.658-0.778 |
| Isopropylbenzene | 14.52 | 10.64 | 1.365 | ok | 1.366 | 1.306-1.426 |
| Isopropyl Alcohol | 2.34 | 3.46 | 0.676 | ok | 0.674 | 0.614-0.734 |
| p-Isopropyltoluene | 17.25 | 10.64 | 1.621 | ok | 1.622 | 1.562-1.682 |
| Methylene chloride | 2.55 | 3.46 | 0.737 | ok | 0.735 | 0.675-0.795 |
| Methyl ethyl ketone | 3.17 | 3.46 | 0.916 | ok | 0.914 | 0.854-0.974 |
| Methyl Isobutyl Ketone | 6.56 | 4.85 | 1.353 | ok | 1.353 | 1.293-1.413 |
| Methyl Tert Butyl Ether | 3.02 | 3.46 | 0.873 | ok | 0.871 | 0.811-0.931 |
| Methylmethacrylate | 5.78 | 4.85 | 1.192 | ok | 1.194 | 1.134-1.254 |
| Naphthalene | 18.56 | 10.64 | 1.744 | ok | 1.744 | 1.684-1.804 |
| Nonane | 14.11 | 10.64 | 1.326 | ok | 1.328 | 1.268-1.388 |
| Octane | 9.61 | 4.85 | 1.981 | ok | 1.985 | 1.925-2.045 |
| Pentane | 2.43 | 3.46 | 0.702 | ok | 0.701 | 0.641-0.761 |
| n-Propylbenzene | 15.87 | 10.64 | 1.492 | ok | 1.493 | 1.433-1.553 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.84 | 3.46 | 0.532 | ok | 0.528 | 0.468-0.588 |
| Styrene | 12.77 | 10.64 | 1.200 | ok | 1.202 | 1.142-1.262 |
| 1,1,1-Trichloroethane | 4.16 | 3.46 | 1.202 | ok | 1.201 | 1.141-1.261 |
| 1,1,1,2-Tetrachloroethane | 10.72 | 10.64 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.00 | 10.64 | 1.222 | ok | 1.224 | 1.164-1.284 |
| 1,1,2-Trichloroethane | 7.31 | 4.85 | 1.507 | ok | 1.510 | 1.450-1.570 |
| 1,2,3-Trichloropropane | 13.28 | 10.64 | 1.248 | ok | 1.250 | 1.190-1.310 |
| 1,2,3-Trimethylbenzene | 17.19 | 10.64 | 1.616 | ok | 1.616 | 1.556-1.676 |
| 1,2,4-Trimethylbenzene | 16.80 | 10.64 | 1.579 | ok | 1.580 | 1.520-1.640 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.64 | 1.537 | ok | 1.537 | 1.477-1.597 |
| 2,2,4-Trimethylpentane | 5.55 | 4.85 | 1.144 | ok | 1.146 | 1.086-1.206 |
| Tertiary Butyl Alcohol | 2.53 | 3.46 | 0.731 | ok | 0.730 | 0.670-0.790 |
| Tetrachloroethylene | 9.47 | 4.85 | 1.953 | ok | 1.955 | 1.895-2.015 |
| Tetrahydrofuran | 3.79 | 3.46 | 1.095 | ok | 1.091 | 1.031-1.151 |
| Toluene | 7.69 | 4.85 | 1.586 | ok | 1.588 | 1.528-1.648 |
| Trichloroethylene | 5.45 | 4.85 | 1.124 | ok | 1.125 | 1.065-1.185 |
| Trichlorofluoromethane | 2.32 | 3.46 | 0.671 | ok | 0.669 | 0.609-0.729 |
| Vinyl chloride | 1.96 | 3.46 | 0.566 | ok | 0.563 | 0.503-0.623 |
| Vinyl Acetate | 3.06 | 3.46 | 0.884 | ok | 0.884 | 0.824-0.944 |
| m,p-Xylene | 12.04 | 10.64 | 1.132 | ok | 1.133 | 1.073-1.193 |
| o-Xylene | 12.99 | 10.64 | 1.221 | ok | 1.222 | 1.162-1.282 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.46 | ok | 3.47 | 3.14-3.80 | 266297 | ok | 264398 | 158639-370157 |
| 1,4-Difluorobenzene | 4.85 | ok | 4.85 | 4.52-5.18 | 1715824 | ok | 1673779 | 1004267-2343291 |
| Chlorobenzene-D5 | 10.64 | ok | 10.64 | 10.31-10.97 | 1616454 | ok | 1567527 | 940516-2194538 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.27 | 3.47 | 0.654 | ok | 0.654 | 0.594-0.714 |
| Acrolein | 2.24 | 3.47 | 0.646 | ok | 0.643 | 0.583-0.703 |
| Acrylonitrile | 2.40 | 3.47 | 0.692 | ok | 0.693 | 0.633-0.753 |
| Acetonitrile | 2.20 | 3.47 | 0.634 | ok | 0.632 | 0.572-0.692 |
| 1,3-Butadiene | 1.99 | 3.47 | 0.573 | ok | 0.573 | 0.513-0.633 |
| Benzene | 4.49 | 3.47 | 1.294 | ok | 1.298 | 1.238-1.358 |
| Bromobenzene | 14.40 | 10.64 | 1.353 | ok | 1.355 | 1.295-1.415 |
| Bromodichloromethane | 5.40 | 4.85 | 1.113 | ok | 1.115 | 1.055-1.175 |
| Bromoform | 11.85 | 10.64 | 1.114 | ok | 1.115 | 1.055-1.175 |
| Bromomethane | 2.06 | 3.47 | 0.594 | ok | 0.594 | 0.534-0.654 |
| Bromoethene | 2.20 | 3.47 | 0.634 | ok | 0.634 | 0.574-0.694 |
| n-Butane | 2.00 | 3.47 | 0.576 | ok | 0.577 | 0.517-0.637 |
| Benzyl Chloride | 16.89 | 10.64 | 1.587 | ok | 1.588 | 1.528-1.648 |
| n-Butylbenzene | 17.60 | 10.64 | 1.654 | ok | 1.654 | 1.594-1.714 |
| sec-Butylbenzene | 17.08 | 10.64 | 1.605 | ok | 1.605 | 1.545-1.665 |
| tert-Butylbenzene | 16.80 | 10.64 | 1.579 | ok | 1.579 | 1.519-1.639 |
| Carbon disulfide | 2.65 | 3.47 | 0.764 | ok | 0.764 | 0.704-0.824 |
| Chlorobenzene | 10.71 | 10.64 | 1.007 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.82 | 3.47 | 0.524 | ok | 0.525 | 0.465-0.585 |
| Chloroethane | 2.10 | 3.47 | 0.605 | ok | 0.606 | 0.546-0.666 |
| Chlorotrifluoroethene | 1.83 | 3.47 | 0.527 | ok | 0.529 | 0.469-0.589 |
| Chloroform | 3.54 | 3.47 | 1.020 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.89 | 3.47 | 0.545 | ok | 0.545 | 0.485-0.605 |
| 3-Chloropropene | 2.59 | 3.47 | 0.746 | ok | 0.748 | 0.688-0.808 |
| 2-Chlorotoluene | 15.53 | 10.64 | 1.460 | ok | 1.461 | 1.401-1.521 |
| Carbon tetrachloride | 4.61 | 3.47 | 1.329 | ok | 1.331 | 1.271-1.391 |
| Cyclohexane | 4.72 | 4.85 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.98 | 3.47 | 0.859 | ok | 0.861 | 0.801-0.921 |
| 1,1-Dichloroethylene | 2.52 | 3.47 | 0.726 | ok | 0.726 | 0.666-0.786 |
| 1,2-Dibromoethane (EDB) | 8.60 | 4.85 | 1.773 | ok | 1.777 | 1.717-1.837 |
| 1,2-Dichloroethane | 3.99 | 3.47 | 1.150 | ok | 1.151 | 1.091-1.211 |
| 1,2-Dichloropropane | 5.21 | 4.85 | 1.074 | ok | 1.076 | 1.016-1.136 |
| 1,3-Dichloropropane | 7.75 | 4.85 | 1.598 | ok | 1.602 | 1.542-1.662 |
| 1,4-Dioxane | 5.49 | 4.85 | 1.132 | ok | 1.132 | 1.072-1.192 |
| Dichlorodifluoromethane | 1.85 | 3.47 | 0.533 | ok | 0.533 | 0.473-0.593 |
| Dichlorofluoromethane | 2.13 | 3.47 | 0.614 | ok | 0.614 | 0.554-0.674 |
| Dibromochloromethane | 8.25 | 4.85 | 1.701 | ok | 1.703 | 1.643-1.763 |
| Dibromomethane | 5.16 | 4.85 | 1.064 | ok | 1.066 | 1.006-1.126 |
| trans-1,2-Dichloroethylene | 2.90 | 3.47 | 0.836 | ok | 0.837 | 0.777-0.897 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.39 | 3.47 | 0.977 | ok | 0.977 | 0.917-1.037 |
| cis-1,3-Dichloropropene | 6.43 | 4.85 | 1.326 | ok | 1.328 | 1.268-1.388 |
| m-Dichlorobenzene | 16.87 | 10.64 | 1.586 | ok | 1.586 | 1.526-1.646 |
| o-Dichlorobenzene | 17.24 | 10.64 | 1.620 | ok | 1.621 | 1.561-1.681 |
| p-Dichlorobenzene | 16.95 | 10.64 | 1.593 | ok | 1.593 | 1.533-1.653 |
| trans-1,3-Dichloropropene | 7.14 | 4.85 | 1.472 | ok | 1.475 | 1.415-1.535 |
| Di-Isopropyl ether | 3.53 | 3.47 | 1.017 | ok | 1.019 | 0.959-1.079 |
| 2,3-Dimethylpentane | 4.98 | 4.85 | 1.027 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.07 | 3.47 | 1.173 | ok | 1.176 | 1.116-1.236 |
| Ethylbenzene | 11.60 | 10.64 | 1.090 | ok | 1.092 | 1.032-1.152 |
| Ethyl Acetate | 3.54 | 3.47 | 1.020 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.34 | 4.85 | 1.101 | ok | 1.103 | 1.043-1.163 |
| 4-Ethyltoluene | 16.21 | 10.64 | 1.523 | ok | 1.524 | 1.464-1.584 |
| Freon 113 | 2.66 | 3.47 | 0.767 | ok | 0.765 | 0.705-0.825 |
| Freon 114 | 1.92 | 3.47 | 0.553 | ok | 0.554 | 0.494-0.614 |
| Freon 115 | 1.79 | 3.47 | 0.516 | ok | 0.515 | 0.455-0.575 |
| Freon 123 | 2.25 | 3.47 | 0.648 | ok | 0.648 | 0.588-0.708 |
| Freon 123A | 2.25 | 3.47 | 0.648 | ok | 0.651 | 0.591-0.711 |
| Freon 142B | 1.89 | 3.47 | 0.545 | ok | 0.545 | 0.485-0.605 |
| Freon 152A | 1.82 | 3.47 | 0.524 | ok | 0.523 | 0.463-0.583 |
| Heptane | 5.88 | 4.85 | 1.212 | ok | 1.214 | 1.154-1.274 |
| Hexachlorobutadiene | 18.82 | 10.64 | 1.769 | ok | 1.768 | 1.708-1.828 |
| Hexachloroethane | 17.78 | 10.64 | 1.671 | ok | 1.671 | 1.611-1.731 |
| Hexane | 3.52 | 3.47 | 1.014 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.29 | 4.85 | 1.709 | ok | 1.712 | 1.652-1.772 |
| Iodomethane | 2.49 | 3.47 | 0.718 | ok | 0.718 | 0.658-0.778 |
| Isopropylbenzene | 14.52 | 10.64 | 1.365 | ok | 1.366 | 1.306-1.426 |
| Isopropyl Alcohol | 2.34 | 3.47 | 0.674 | ok | 0.674 | 0.614-0.734 |
| p-Isopropyltoluene | 17.25 | 10.64 | 1.621 | ok | 1.622 | 1.562-1.682 |
| Methylene chloride | 2.55 | 3.47 | 0.735 | ok | 0.735 | 0.675-0.795 |
| Methyl ethyl ketone | 3.16 | 3.47 | 0.911 | ok | 0.914 | 0.854-0.974 |
| Methyl Isobutyl Ketone | 6.55 | 4.85 | 1.351 | ok | 1.353 | 1.293-1.413 |
| Methyl Tert Butyl Ether | 3.03 | 3.47 | 0.873 | ok | 0.871 | 0.811-0.931 |
| Methylmethacrylate | 5.78 | 4.85 | 1.192 | ok | 1.194 | 1.134-1.254 |
| Naphthalene | 18.56 | 10.64 | 1.744 | ok | 1.744 | 1.684-1.804 |
| Nonane | 14.11 | 10.64 | 1.326 | ok | 1.328 | 1.268-1.388 |
| Octane | 9.61 | 4.85 | 1.981 | ok | 1.985 | 1.925-2.045 |
| Pentane | 2.43 | 3.47 | 0.700 | ok | 0.701 | 0.641-0.761 |
| n-Propylbenzene | 15.87 | 10.64 | 1.492 | ok | 1.493 | 1.433-1.553 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.83 | 3.47 | 0.527 | ok | 0.528 | 0.468-0.588 |
| Styrene | 12.77 | 10.64 | 1.200 | ok | 1.202 | 1.142-1.262 |
| 1,1,1-Trichloroethane | 4.16 | 3.47 | 1.199 | ok | 1.201 | 1.141-1.261 |
| 1,1,1,2-Tetrachloroethane | 10.73 | 10.64 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.00 | 10.64 | 1.222 | ok | 1.224 | 1.164-1.284 |
| 1,1,2-Trichloroethane | 7.31 | 4.85 | 1.507 | ok | 1.510 | 1.450-1.570 |
| 1,2,4-Trichlorobenzene | 18.51 | 10.64 | 1.740 | ok | 1.739 | 1.679-1.799 |
| 1,2,3-Trichloropropane | 13.28 | 10.64 | 1.248 | ok | 1.250 | 1.190-1.310 |
| 1,2,3-Trimethylbenzene | 17.19 | 10.64 | 1.616 | ok | 1.616 | 1.556-1.676 |
| 1,2,4-Trimethylbenzene | 16.81 | 10.64 | 1.580 | ok | 1.580 | 1.520-1.640 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.64 | 1.537 | ok | 1.537 | 1.477-1.597 |
| 2,2,4-Trimethylpentane | 5.55 | 4.85 | 1.144 | ok | 1.146 | 1.086-1.206 |
| Tertiary Butyl Alcohol | 2.53 | 3.47 | 0.729 | ok | 0.730 | 0.670-0.790 |
| Tetrachloroethylene | 9.47 | 4.85 | 1.953 | ok | 1.955 | 1.895-2.015 |
| Tetrahydrofuran | 3.79 | 3.47 | 1.092 | ok | 1.091 | 1.031-1.151 |
| Toluene | 7.69 | 4.85 | 1.586 | ok | 1.588 | 1.528-1.648 |
| Trichloroethylene | 5.45 | 4.85 | 1.124 | ok | 1.125 | 1.065-1.185 |
| Trichlorofluoromethane | 2.32 | 3.47 | 0.669 | ok | 0.669 | 0.609-0.729 |
| Vinyl chloride | 1.95 | 3.47 | 0.562 | ok | 0.563 | 0.503-0.623 |
| Vinyl Acetate | 3.07 | 3.47 | 0.885 | ok | 0.884 | 0.824-0.944 |
| m,p-Xylene | 12.04 | 10.64 | 1.132 | ok | 1.133 | 1.073-1.193 |
| o-Xylene | 12.98 | 10.64 | 1.220 | ok | 1.222 | 1.162-1.282 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.47 | ok | 3.47 | 3.14-3.80 | 261318 | ok | 264398 | 158639-370157 |
| 1,4-Difluorobenzene | 4.85 | ok | 4.85 | 4.52-5.18 | 1666817 | ok | 1673779 | 1004267-2343291 |
| Chlorobenzene-D5 | 10.64 | ok | 10.64 | 10.31-10.97 | 1586760 | ok | 1567527 | 940516-2194538 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.27 | 3.47 | 0.654 | ok | 0.654 | 0.594-0.714 |
| Acrolein | 2.23 | 3.47 | 0.643 | ok | 0.643 | 0.583-0.703 |
| Acrylonitrile | 2.40 | 3.47 | 0.692 | ok | 0.693 | 0.633-0.753 |
| Acetonitrile | 2.20 | 3.47 | 0.634 | ok | 0.632 | 0.572-0.692 |
| 1,3-Butadiene | 1.98 | 3.47 | 0.571 | ok | 0.573 | 0.513-0.633 |
| Benzene | 4.49 | 3.47 | 1.294 | ok | 1.298 | 1.238-1.358 |
| Bromobenzene | 14.39 | 10.64 | 1.352 | ok | 1.355 | 1.295-1.415 |
| Bromodichloromethane | 5.40 | 4.85 | 1.113 | ok | 1.115 | 1.055-1.175 |
| Bromoform | 11.85 | 10.64 | 1.114 | ok | 1.115 | 1.055-1.175 |
| Bromomethane | 2.06 | 3.47 | 0.594 | ok | 0.594 | 0.534-0.654 |
| Bromoethene | 2.20 | 3.47 | 0.634 | ok | 0.634 | 0.574-0.694 |
| n-Butane | 2.00 | 3.47 | 0.576 | ok | 0.577 | 0.517-0.637 |
| Benzyl Chloride | 16.89 | 10.64 | 1.587 | ok | 1.588 | 1.528-1.648 |
| n-Butylbenzene | 17.60 | 10.64 | 1.654 | ok | 1.654 | 1.594-1.714 |
| sec-Butylbenzene | 17.08 | 10.64 | 1.605 | ok | 1.605 | 1.545-1.665 |
| tert-Butylbenzene | 16.80 | 10.64 | 1.579 | ok | 1.579 | 1.519-1.639 |
| Carbon disulfide | 2.66 | 3.47 | 0.767 | ok | 0.764 | 0.704-0.824 |
| Chlorobenzene | 10.71 | 10.64 | 1.007 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.83 | 3.47 | 0.527 | ok | 0.525 | 0.465-0.585 |
| Chloroethane | 2.10 | 3.47 | 0.605 | ok | 0.606 | 0.546-0.666 |
| Chlorotrifluoroethene | 1.84 | 3.47 | 0.530 | ok | 0.529 | 0.469-0.589 |
| Chloroform | 3.55 | 3.47 | 1.023 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.90 | 3.47 | 0.548 | ok | 0.545 | 0.485-0.605 |
| 3-Chloropropene | 2.59 | 3.47 | 0.746 | ok | 0.748 | 0.688-0.808 |
| 2-Chlorotoluene | 15.54 | 10.64 | 1.461 | ok | 1.461 | 1.401-1.521 |
| Carbon tetrachloride | 4.61 | 3.47 | 1.329 | ok | 1.331 | 1.271-1.391 |
| Cyclohexane | 4.72 | 4.85 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.99 | 3.47 | 0.862 | ok | 0.861 | 0.801-0.921 |
| 1,1-Dichloroethylene | 2.52 | 3.47 | 0.726 | ok | 0.726 | 0.666-0.786 |
| 1,2-Dibromoethane (EDB) | 8.60 | 4.85 | 1.773 | ok | 1.777 | 1.717-1.837 |
| 1,2-Dichloroethane | 3.98 | 3.47 | 1.147 | ok | 1.151 | 1.091-1.211 |
| 1,2-Dichloropropane | 5.21 | 4.85 | 1.074 | ok | 1.076 | 1.016-1.136 |
| 1,3-Dichloropropane | 7.76 | 4.85 | 1.600 | ok | 1.602 | 1.542-1.662 |
| 1,4-Dioxane | 5.48 | 4.85 | 1.130 | ok | 1.132 | 1.072-1.192 |
| Dichlorodifluoromethane | 1.85 | 3.47 | 0.533 | ok | 0.533 | 0.473-0.593 |
| Dichlorofluoromethane | 2.13 | 3.47 | 0.614 | ok | 0.614 | 0.554-0.674 |
| Dibromochloromethane | 8.25 | 4.85 | 1.701 | ok | 1.703 | 1.643-1.763 |
| Dibromomethane | 5.16 | 4.85 | 1.064 | ok | 1.066 | 1.006-1.126 |
| trans-1,2-Dichloroethylene | 2.90 | 3.47 | 0.836 | ok | 0.837 | 0.777-0.897 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.39 | 3.47 | 0.977 | ok | 0.977 | 0.917-1.037 |
| cis-1,3-Dichloropropene | 6.43 | 4.85 | 1.326 | ok | 1.328 | 1.268-1.388 |
| m-Dichlorobenzene | 16.87 | 10.64 | 1.586 | ok | 1.586 | 1.526-1.646 |
| o-Dichlorobenzene | 17.24 | 10.64 | 1.620 | ok | 1.621 | 1.561-1.681 |
| p-Dichlorobenzene | 16.95 | 10.64 | 1.593 | ok | 1.593 | 1.533-1.653 |
| trans-1,3-Dichloropropene | 7.15 | 4.85 | 1.474 | ok | 1.475 | 1.415-1.535 |
| Di-Isopropyl ether | 3.53 | 3.47 | 1.017 | ok | 1.019 | 0.959-1.079 |
| 2,3-Dimethylpentane | 4.99 | 4.85 | 1.029 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.08 | 3.47 | 1.176 | ok | 1.176 | 1.116-1.236 |
| Ethanol | 2.13 | 3.47 | 0.614 | ok | 0.615 | 0.555-0.675 |
| Ethylbenzene | 11.61 | 10.64 | 1.091 | ok | 1.092 | 1.032-1.152 |
| Ethyl Acetate | 3.54 | 3.47 | 1.020 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.34 | 4.85 | 1.101 | ok | 1.103 | 1.043-1.163 |
| 4-Ethyltoluene | 16.21 | 10.64 | 1.523 | ok | 1.524 | 1.464-1.584 |
| Freon 113 | 2.65 | 3.47 | 0.764 | ok | 0.765 | 0.705-0.825 |
| Freon 114 | 1.92 | 3.47 | 0.553 | ok | 0.554 | 0.494-0.614 |
| Freon 115 | 1.78 | 3.47 | 0.513 | ok | 0.515 | 0.455-0.575 |
| Freon 123 | 2.25 | 3.47 | 0.648 | ok | 0.648 | 0.588-0.708 |
| Freon 123A | 2.26 | 3.47 | 0.651 | ok | 0.651 | 0.591-0.711 |
| Freon 142B | 1.89 | 3.47 | 0.545 | ok | 0.545 | 0.485-0.605 |
| Freon 152A | 1.82 | 3.47 | 0.524 | ok | 0.523 | 0.463-0.583 |
| Heptane | 5.88 | 4.85 | 1.212 | ok | 1.214 | 1.154-1.274 |
| Hexachlorobutadiene | 18.81 | 10.64 | 1.768 | ok | 1.768 | 1.708-1.828 |
| Hexachloroethane | 17.78 | 10.64 | 1.671 | ok | 1.671 | 1.611-1.731 |
| Hexane | 3.52 | 3.47 | 1.014 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.28 | 4.85 | 1.707 | ok | 1.712 | 1.652-1.772 |
| Iodomethane | 2.49 | 3.47 | 0.718 | ok | 0.718 | 0.658-0.778 |
| Isopropylbenzene | 14.52 | 10.64 | 1.365 | ok | 1.366 | 1.306-1.426 |
| Isopropyl Alcohol | 2.34 | 3.47 | 0.674 | ok | 0.674 | 0.614-0.734 |
| p-Isopropyltoluene | 17.25 | 10.64 | 1.621 | ok | 1.622 | 1.562-1.682 |
| Methylene chloride | 2.55 | 3.47 | 0.735 | ok | 0.735 | 0.675-0.795 |
| Methyl ethyl ketone | 3.17 | 3.47 | 0.914 | ok | 0.914 | 0.854-0.974 |
| Methyl Isobutyl Ketone | 6.55 | 4.85 | 1.351 | ok | 1.353 | 1.293-1.413 |
| Methyl Tert Butyl Ether | 3.02 | 3.47 | 0.870 | ok | 0.871 | 0.811-0.931 |
| Methylmethacrylate | 5.78 | 4.85 | 1.192 | ok | 1.194 | 1.134-1.254 |
| Naphthalene | 18.56 | 10.64 | 1.744 | ok | 1.744 | 1.684-1.804 |
| Nonane | 14.11 | 10.64 | 1.326 | ok | 1.328 | 1.268-1.388 |
| Octane | 9.61 | 4.85 | 1.981 | ok | 1.985 | 1.925-2.045 |
| Pentane | 2.43 | 3.47 | 0.700 | ok | 0.701 | 0.641-0.761 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| n-Propylbenzene | 15.87 | 10.64 | 1.492 | ok | 1.493 | 1.433-1.553 |
| Propylene | 1.83 | 3.47 | 0.527 | ok | 0.528 | 0.468-0.588 |
| Styrene | 12.77 | 10.64 | 1.200 | ok | 1.202 | 1.142-1.262 |
| 1,1,1-Trichloroethane | 4.16 | 3.47 | 1.199 | ok | 1.201 | 1.141-1.261 |
| 1,1,1,2-Tetrachloroethane | 10.72 | 10.64 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.00 | 10.64 | 1.222 | ok | 1.224 | 1.164-1.284 |
| 1,1,2-Trichloroethane | 7.31 | 4.85 | 1.507 | ok | 1.510 | 1.450-1.570 |
| 1,2,4-Trichlorobenzene | 18.51 | 10.64 | 1.740 | ok | 1.739 | 1.679-1.799 |
| 1,2,3-Trichloropropane | 13.29 | 10.64 | 1.249 | ok | 1.250 | 1.190-1.310 |
| 1,2,3-Trimethylbenzene | 17.19 | 10.64 | 1.616 | ok | 1.616 | 1.556-1.676 |
| 1,2,4-Trimethylbenzene | 16.81 | 10.64 | 1.580 | ok | 1.580 | 1.520-1.640 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.64 | 1.537 | ok | 1.537 | 1.477-1.597 |
| 2,2,4-Trimethylpentane | 5.55 | 4.85 | 1.144 | ok | 1.146 | 1.086-1.206 |
| Tertiary Butyl Alcohol | 2.53 | 3.47 | 0.729 | ok | 0.730 | 0.670-0.790 |
| Tetrachloroethylene | 9.47 | 4.85 | 1.953 | ok | 1.955 | 1.895-2.015 |
| Tetrahydrofuran | 3.78 | 3.47 | 1.089 | ok | 1.091 | 1.031-1.151 |
| Toluene | 7.69 | 4.85 | 1.586 | ok | 1.588 | 1.528-1.648 |
| Trichloroethylene | 5.45 | 4.85 | 1.124 | ok | 1.125 | 1.065-1.185 |
| Trichlorofluoromethane | 2.32 | 3.47 | 0.669 | ok | 0.669 | 0.609-0.729 |
| Vinyl chloride | 1.96 | 3.47 | 0.565 | ok | 0.563 | 0.503-0.623 |
| Vinyl Acetate | 3.07 | 3.47 | 0.885 | ok | 0.884 | 0.824-0.944 |
| m,p-Xylene | 12.00 | 10.64 | 1.128 | ok | 1.133 | 1.073-1.193 |
| o-Xylene | 12.98 | 10.64 | 1.220 | ok | 1.222 | 1.162-1.282 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.47 | ok | 3.47 | 3.14-3.80 | 266005 | ok | 264398 | 158639-370157 |
| 1,4-Difluorobenzene | 4.85 | ok | 4.85 | 4.52-5.18 | 1691368 | ok | 1673779 | 1004267-2343291 |
| Chlorobenzene-D5 | 10.64 | ok | 10.64 | 10.31-10.97 | 1594580 | ok | 1567527 | 940516-2194538 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.27 | 3.47 | 0.654 | ok | 0.654 | 0.594-0.714 |
| Acrolein | 2.23 | 3.47 | 0.643 | ok | 0.643 | 0.583-0.703 |
| Acrylonitrile | 2.40 | 3.47 | 0.692 | ok | 0.693 | 0.633-0.753 |
| Acetonitrile | 2.19 | 3.47 | 0.631 | ok | 0.632 | 0.572-0.692 |
| 1,3-Butadiene | 1.99 | 3.47 | 0.573 | ok | 0.573 | 0.513-0.633 |
| Benzene | 4.50 | 3.47 | 1.297 | ok | 1.298 | 1.238-1.358 |
| Bromobenzene | 14.40 | 10.64 | 1.353 | ok | 1.355 | 1.295-1.415 |
| Bromodichloromethane | 5.40 | 4.85 | 1.113 | ok | 1.115 | 1.055-1.175 |
| Bromoform | 11.86 | 10.64 | 1.115 | ok | 1.115 | 1.055-1.175 |
| Bromomethane | 2.06 | 3.47 | 0.594 | ok | 0.594 | 0.534-0.654 |
| Bromoethene | 2.20 | 3.47 | 0.634 | ok | 0.634 | 0.574-0.694 |
| n-Butane | 2.00 | 3.47 | 0.576 | ok | 0.577 | 0.517-0.637 |
| Benzyl Chloride | 16.89 | 10.64 | 1.587 | ok | 1.588 | 1.528-1.648 |
| n-Butylbenzene | 17.60 | 10.64 | 1.654 | ok | 1.654 | 1.594-1.714 |
| sec-Butylbenzene | 17.08 | 10.64 | 1.605 | ok | 1.605 | 1.545-1.665 |
| tert-Butylbenzene | 16.80 | 10.64 | 1.579 | ok | 1.579 | 1.519-1.639 |
| Carbon disulfide | 2.65 | 3.47 | 0.764 | ok | 0.764 | 0.704-0.824 |
| Chlorobenzene | 10.71 | 10.64 | 1.007 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.82 | 3.47 | 0.524 | ok | 0.525 | 0.465-0.585 |
| Chloroethane | 2.11 | 3.47 | 0.608 | ok | 0.606 | 0.546-0.666 |
| Chlorotrifluoroethene | 1.84 | 3.47 | 0.530 | ok | 0.529 | 0.469-0.589 |
| Chloroform | 3.55 | 3.47 | 1.023 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.89 | 3.47 | 0.545 | ok | 0.545 | 0.485-0.605 |
| 3-Chloropropene | 2.60 | 3.47 | 0.749 | ok | 0.748 | 0.688-0.808 |
| 2-Chlorotoluene | 15.54 | 10.64 | 1.461 | ok | 1.461 | 1.401-1.521 |
| Carbon tetrachloride | 4.62 | 3.47 | 1.331 | ok | 1.331 | 1.271-1.391 |
| Cyclohexane | 4.72 | 4.85 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.99 | 3.47 | 0.862 | ok | 0.861 | 0.801-0.921 |
| 1,1-Dichloroethylene | 2.52 | 3.47 | 0.726 | ok | 0.726 | 0.666-0.786 |
| 1,2-Dibromoethane (EDB) | 8.61 | 4.85 | 1.775 | ok | 1.777 | 1.717-1.837 |
| 1,2-Dichloroethane | 3.99 | 3.47 | 1.150 | ok | 1.151 | 1.091-1.211 |
| 1,2-Dichloropropane | 5.21 | 4.85 | 1.074 | ok | 1.076 | 1.016-1.136 |
| 1,3-Dichloropropane | 7.76 | 4.85 | 1.600 | ok | 1.602 | 1.542-1.662 |
| 1,4-Dioxane | 5.47 | 4.85 | 1.128 | ok | 1.132 | 1.072-1.192 |
| Dichlorodifluoromethane | 1.85 | 3.47 | 0.533 | ok | 0.533 | 0.473-0.593 |
| Dichlorofluoromethane | 2.13 | 3.47 | 0.614 | ok | 0.614 | 0.554-0.674 |
| Dibromochloromethane | 8.25 | 4.85 | 1.701 | ok | 1.703 | 1.643-1.763 |
| Dibromomethane | 5.17 | 4.85 | 1.066 | ok | 1.066 | 1.006-1.126 |
| trans-1,2-Dichloroethylene | 2.90 | 3.47 | 0.836 | ok | 0.837 | 0.777-0.897 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.39 | 3.47 | 0.977 | ok | 0.977 | 0.917-1.037 |
| cis-1,3-Dichloropropene | 6.44 | 4.85 | 1.328 | ok | 1.328 | 1.268-1.388 |
| m-Dichlorobenzene | 16.87 | 10.64 | 1.586 | ok | 1.586 | 1.526-1.646 |
| o-Dichlorobenzene | 17.24 | 10.64 | 1.620 | ok | 1.621 | 1.561-1.681 |
| p-Dichlorobenzene | 16.95 | 10.64 | 1.593 | ok | 1.593 | 1.533-1.653 |
| trans-1,3-Dichloropropene | 7.15 | 4.85 | 1.474 | ok | 1.475 | 1.415-1.535 |
| Di-Isopropyl ether | 3.53 | 3.47 | 1.017 | ok | 1.019 | 0.959-1.079 |
| 2,3-Dimethylpentane | 4.99 | 4.85 | 1.029 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.08 | 3.47 | 1.176 | ok | 1.176 | 1.116-1.236 |
| Ethanol | 2.14 | 3.47 | 0.617 | ok | 0.615 | 0.555-0.675 |
| Ethylbenzene | 11.61 | 10.64 | 1.091 | ok | 1.092 | 1.032-1.152 |
| Ethyl Acetate | 3.53 | 3.47 | 1.017 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.34 | 4.85 | 1.101 | ok | 1.103 | 1.043-1.163 |
| 4-Ethyltoluene | 16.21 | 10.64 | 1.523 | ok | 1.524 | 1.464-1.584 |
| Freon 113 | 2.65 | 3.47 | 0.764 | ok | 0.765 | 0.705-0.825 |
| Freon 114 | 1.92 | 3.47 | 0.553 | ok | 0.554 | 0.494-0.614 |
| Freon 115 | 1.79 | 3.47 | 0.516 | ok | 0.515 | 0.455-0.575 |
| Freon 123 | 2.25 | 3.47 | 0.648 | ok | 0.648 | 0.588-0.708 |
| Freon 123A | 2.26 | 3.47 | 0.651 | ok | 0.651 | 0.591-0.711 |
| Freon 142B | 1.89 | 3.47 | 0.545 | ok | 0.545 | 0.485-0.605 |
| Freon 152A | 1.82 | 3.47 | 0.524 | ok | 0.523 | 0.463-0.583 |
| Heptane | 5.89 | 4.85 | 1.214 | ok | 1.214 | 1.154-1.274 |
| Hexachlorobutadiene | 18.81 | 10.64 | 1.768 | ok | 1.768 | 1.708-1.828 |
| Hexachloroethane | 17.78 | 10.64 | 1.671 | ok | 1.671 | 1.611-1.731 |
| Hexane | 3.52 | 3.47 | 1.014 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.28 | 4.85 | 1.707 | ok | 1.712 | 1.652-1.772 |
| Iodomethane | 2.49 | 3.47 | 0.718 | ok | 0.718 | 0.658-0.778 |
| Isopropylbenzene | 14.52 | 10.64 | 1.365 | ok | 1.366 | 1.306-1.426 |
| Isopropyl Alcohol | 2.34 | 3.47 | 0.674 | ok | 0.674 | 0.614-0.734 |
| p-Isopropyltoluene | 17.25 | 10.64 | 1.621 | ok | 1.622 | 1.562-1.682 |
| Methylene chloride | 2.55 | 3.47 | 0.735 | ok | 0.735 | 0.675-0.795 |
| Methyl ethyl ketone | 3.17 | 3.47 | 0.914 | ok | 0.914 | 0.854-0.974 |
| Methyl Isobutyl Ketone | 6.56 | 4.85 | 1.353 | ok | 1.353 | 1.293-1.413 |
| Methyl Tert Butyl Ether | 3.02 | 3.47 | 0.870 | ok | 0.871 | 0.811-0.931 |
| Methylmethacrylate | 5.78 | 4.85 | 1.192 | ok | 1.194 | 1.134-1.254 |
| Naphthalene | 18.56 | 10.64 | 1.744 | ok | 1.744 | 1.684-1.804 |
| Nonane | 14.12 | 10.64 | 1.327 | ok | 1.328 | 1.268-1.388 |
| Octane | 9.62 | 4.85 | 1.984 | ok | 1.985 | 1.925-2.045 |
| Pentane | 2.43 | 3.47 | 0.700 | ok | 0.701 | 0.641-0.761 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| n-Propylbenzene | 15.88 | 10.64 | 1.492 | ok | 1.493 | 1.433-1.553 |
| Propylene | 1.83 | 3.47 | 0.527 | ok | 0.528 | 0.468-0.588 |
| Styrene | 12.78 | 10.64 | 1.201 | ok | 1.202 | 1.142-1.262 |
| 1,1,1-Trichloroethane | 4.16 | 3.47 | 1.199 | ok | 1.201 | 1.141-1.261 |
| 1,1,1,2-Tetrachloroethane | 10.73 | 10.64 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.01 | 10.64 | 1.223 | ok | 1.224 | 1.164-1.284 |
| 1,1,2-Trichloroethane | 7.31 | 4.85 | 1.507 | ok | 1.510 | 1.450-1.570 |
| 1,2,4-Trichlorobenzene | 18.51 | 10.64 | 1.740 | ok | 1.739 | 1.679-1.799 |
| 1,2,3-Trichloropropane | 13.29 | 10.64 | 1.249 | ok | 1.250 | 1.190-1.310 |
| 1,2,3-Trimethylbenzene | 17.19 | 10.64 | 1.616 | ok | 1.616 | 1.556-1.676 |
| 1,2,4-Trimethylbenzene | 16.81 | 10.64 | 1.580 | ok | 1.580 | 1.520-1.640 |
| 1,3,5-Trimethylbenzene | 16.36 | 10.64 | 1.538 | ok | 1.537 | 1.477-1.597 |
| 2,2,4-Trimethylpentane | 5.55 | 4.85 | 1.144 | ok | 1.146 | 1.086-1.206 |
| Tertiary Butyl Alcohol | 2.53 | 3.47 | 0.729 | ok | 0.730 | 0.670-0.790 |
| Tetrachloroethylene | 9.47 | 4.85 | 1.953 | ok | 1.955 | 1.895-2.015 |
| Tetrahydrofuran | 3.78 | 3.47 | 1.089 | ok | 1.091 | 1.031-1.151 |
| Toluene | 7.70 | 4.85 | 1.588 | ok | 1.588 | 1.528-1.648 |
| Trichloroethylene | 5.45 | 4.85 | 1.124 | ok | 1.125 | 1.065-1.185 |
| Trichlorofluoromethane | 2.32 | 3.47 | 0.669 | ok | 0.669 | 0.609-0.729 |
| Vinyl chloride | 1.95 | 3.47 | 0.562 | ok | 0.563 | 0.503-0.623 |
| Vinyl Acetate | 3.06 | 3.47 | 0.882 | ok | 0.884 | 0.824-0.944 |
| m,p-Xylene | 12.05 | 10.64 | 1.133 | ok | 1.133 | 1.073-1.193 |
| o-Xylene | 13.00 | 10.64 | 1.222 | ok | 1.222 | 1.162-1.282 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.47 | ok | 3.47 | 3.14-3.80 | 278025 | ok | 264398 | 158639-370157 |
| 1,4-Difluorobenzene | 4.85 | ok | 4.85 | 4.52-5.18 | 1767526 | ok | 1673779 | 1004267-2343291 |
| Chlorobenzene-D5 | 10.64 | ok | 10.64 | 10.31-10.97 | 1621830 | ok | 1567527 | 940516-2194538 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.26 | 3.46 | 0.653 | ok | 0.654 | 0.594-0.714 |
| Acrolein | 2.23 | 3.46 | 0.645 | ok | 0.643 | 0.583-0.703 |
| Acrylonitrile | 2.40 | 3.46 | 0.694 | ok | 0.693 | 0.633-0.753 |
| Acetonitrile | 2.19 | 3.46 | 0.633 | ok | 0.632 | 0.572-0.692 |
| 1,3-Butadiene | 1.99 | 3.46 | 0.575 | ok | 0.573 | 0.513-0.633 |
| Benzene | 4.50 | 3.46 | 1.301 | ok | 1.298 | 1.238-1.358 |
| Bromobenzene | 14.41 | 10.64 | 1.354 | ok | 1.355 | 1.295-1.415 |
| Bromodichloromethane | 5.40 | 4.84 | 1.116 | ok | 1.115 | 1.055-1.175 |
| Bromoform | 11.86 | 10.64 | 1.115 | ok | 1.115 | 1.055-1.175 |
| Bromomethane | 2.05 | 3.46 | 0.592 | ok | 0.594 | 0.534-0.654 |
| Bromoethene | 2.20 | 3.46 | 0.636 | ok | 0.634 | 0.574-0.694 |
| n-Butane | 2.00 | 3.46 | 0.578 | ok | 0.577 | 0.517-0.637 |
| Benzyl Chloride | 16.90 | 10.64 | 1.588 | ok | 1.588 | 1.528-1.648 |
| n-Butylbenzene | 17.60 | 10.64 | 1.654 | ok | 1.654 | 1.594-1.714 |
| sec-Butylbenzene | 17.08 | 10.64 | 1.605 | ok | 1.605 | 1.545-1.665 |
| tert-Butylbenzene | 16.81 | 10.64 | 1.580 | ok | 1.579 | 1.519-1.639 |
| Carbon disulfide | 2.65 | 3.46 | 0.766 | ok | 0.764 | 0.704-0.824 |
| Chlorobenzene | 10.72 | 10.64 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.82 | 3.46 | 0.526 | ok | 0.525 | 0.465-0.585 |
| Chloroethane | 2.10 | 3.46 | 0.607 | ok | 0.606 | 0.546-0.666 |
| Chlorotrifluoroethene | 1.83 | 3.46 | 0.529 | ok | 0.529 | 0.469-0.589 |
| Chloroform | 3.55 | 3.46 | 1.026 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.89 | 3.46 | 0.546 | ok | 0.545 | 0.485-0.605 |
| 3-Chloropropene | 2.59 | 3.46 | 0.749 | ok | 0.748 | 0.688-0.808 |
| 2-Chlorotoluene | 15.55 | 10.64 | 1.461 | ok | 1.461 | 1.401-1.521 |
| Carbon tetrachloride | 4.62 | 3.46 | 1.335 | ok | 1.331 | 1.271-1.391 |
| Cyclohexane | 4.72 | 4.84 | 0.975 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.98 | 3.46 | 0.861 | ok | 0.861 | 0.801-0.921 |
| 1,1-Dichloroethylene | 2.51 | 3.46 | 0.725 | ok | 0.726 | 0.666-0.786 |
| 1,2-Dibromoethane (EDB) | 8.61 | 4.84 | 1.779 | ok | 1.777 | 1.717-1.837 |
| 1,2-Dichloroethane | 3.99 | 3.46 | 1.153 | ok | 1.151 | 1.091-1.211 |
| 1,2-Dichloropropane | 5.21 | 4.84 | 1.076 | ok | 1.076 | 1.016-1.136 |
| 1,3-Dichloropropane | 7.76 | 4.84 | 1.603 | ok | 1.602 | 1.542-1.662 |
| 1,4-Dioxane | 5.47 | 4.84 | 1.130 | ok | 1.132 | 1.072-1.192 |
| Dichlorodifluoromethane | 1.84 | 3.46 | 0.532 | ok | 0.533 | 0.473-0.593 |
| Dichlorofluoromethane | 2.13 | 3.46 | 0.616 | ok | 0.614 | 0.554-0.674 |
| Dibromochloromethane | 8.25 | 4.84 | 1.705 | ok | 1.703 | 1.643-1.763 |
| Dibromomethane | 5.17 | 4.84 | 1.068 | ok | 1.066 | 1.006-1.126 |
| trans-1,2-Dichloroethylene | 2.90 | 3.46 | 0.838 | ok | 0.837 | 0.777-0.897 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.38 | 3.46 | 0.977 | ok | 0.977 | 0.917-1.037 |
| cis-1,3-Dichloropropene | 6.44 | 4.84 | 1.331 | ok | 1.328 | 1.268-1.388 |
| m-Dichlorobenzene | 16.88 | 10.64 | 1.586 | ok | 1.586 | 1.526-1.646 |
| o-Dichlorobenzene | 17.24 | 10.64 | 1.620 | ok | 1.621 | 1.561-1.681 |
| p-Dichlorobenzene | 16.96 | 10.64 | 1.594 | ok | 1.593 | 1.533-1.653 |
| trans-1,3-Dichloropropene | 7.15 | 4.84 | 1.477 | ok | 1.475 | 1.415-1.535 |
| Di-Isopropyl ether | 3.53 | 3.46 | 1.020 | ok | 1.019 | 0.959-1.079 |
| 2,3-Dimethylpentane | 4.99 | 4.84 | 1.031 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.08 | 3.46 | 1.179 | ok | 1.176 | 1.116-1.236 |
| Ethanol | 2.13 | 3.46 | 0.616 | ok | 0.615 | 0.555-0.675 |
| Ethylbenzene | 11.62 | 10.64 | 1.092 | ok | 1.092 | 1.032-1.152 |
| Ethyl Acetate | 3.53 | 3.46 | 1.020 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.34 | 4.84 | 1.103 | ok | 1.103 | 1.043-1.163 |
| 4-Ethyltoluene | 16.22 | 10.64 | 1.524 | ok | 1.524 | 1.464-1.584 |
| Freon 113 | 2.65 | 3.46 | 0.766 | ok | 0.765 | 0.705-0.825 |
| Freon 114 | 1.92 | 3.46 | 0.555 | ok | 0.554 | 0.494-0.614 |
| Freon 115 | 1.78 | 3.46 | 0.514 | ok | 0.515 | 0.455-0.575 |
| Freon 123 | 2.24 | 3.46 | 0.647 | ok | 0.648 | 0.588-0.708 |
| Freon 123A | 2.26 | 3.46 | 0.653 | ok | 0.651 | 0.591-0.711 |
| Freon 142B | 1.88 | 3.46 | 0.543 | ok | 0.545 | 0.485-0.605 |
| Freon 152A | 1.81 | 3.46 | 0.523 | ok | 0.523 | 0.463-0.583 |
| Heptane | 5.88 | 4.84 | 1.215 | ok | 1.214 | 1.154-1.274 |
| Hexachlorobutadiene | 18.82 | 10.64 | 1.769 | ok | 1.768 | 1.708-1.828 |
| Hexachloroethane | 17.78 | 10.64 | 1.671 | ok | 1.671 | 1.611-1.731 |
| Hexane | 3.52 | 3.46 | 1.017 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.28 | 4.84 | 1.711 | ok | 1.712 | 1.652-1.772 |
| Iodomethane | 2.48 | 3.46 | 0.717 | ok | 0.718 | 0.658-0.778 |
| Isopropylbenzene | 14.53 | 10.64 | 1.366 | ok | 1.366 | 1.306-1.426 |
| Isopropyl Alcohol | 2.33 | 3.46 | 0.673 | ok | 0.674 | 0.614-0.734 |
| p-Isopropyltoluene | 17.26 | 10.64 | 1.622 | ok | 1.622 | 1.562-1.682 |
| Methylene chloride | 2.55 | 3.46 | 0.737 | ok | 0.735 | 0.675-0.795 |
| Methyl ethyl ketone | 3.17 | 3.46 | 0.916 | ok | 0.914 | 0.854-0.974 |
| Methyl Isobutyl Ketone | 6.55 | 4.84 | 1.353 | ok | 1.353 | 1.293-1.413 |
| Methyl Tert Butyl Ether | 3.02 | 3.46 | 0.873 | ok | 0.871 | 0.811-0.931 |
| Methylmethacrylate | 5.78 | 4.84 | 1.194 | ok | 1.194 | 1.134-1.254 |
| Naphthalene | 18.56 | 10.64 | 1.744 | ok | 1.744 | 1.684-1.804 |
| Nonane | 14.13 | 10.64 | 1.328 | ok | 1.328 | 1.268-1.388 |
| Octane | 9.62 | 4.84 | 1.988 | ok | 1.985 | 1.925-2.045 |
| Pentane | 2.43 | 3.46 | 0.702 | ok | 0.701 | 0.641-0.761 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| n-Propylbenzene | 15.89 | 10.64 | 1.493 | ok | 1.493 | 1.433-1.553 |
| Propylene | 1.82 | 3.46 | 0.526 | ok | 0.528 | 0.468-0.588 |
| Styrene | 12.79 | 10.64 | 1.202 | ok | 1.202 | 1.142-1.262 |
| 1,1,1-Trichloroethane | 4.16 | 3.46 | 1.202 | ok | 1.201 | 1.141-1.261 |
| 1,1,1,2-Tetrachloroethane | 10.73 | 10.64 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.02 | 10.64 | 1.224 | ok | 1.224 | 1.164-1.284 |
| 1,1,2-Trichloroethane | 7.32 | 4.84 | 1.512 | ok | 1.510 | 1.450-1.570 |
| 1,2,4-Trichlorobenzene | 18.51 | 10.64 | 1.740 | ok | 1.739 | 1.679-1.799 |
| 1,2,3-Trichloropropane | 13.30 | 10.64 | 1.250 | ok | 1.250 | 1.190-1.310 |
| 1,2,3-Trimethylbenzene | 17.19 | 10.64 | 1.616 | ok | 1.616 | 1.556-1.676 |
| 1,2,4-Trimethylbenzene | 16.82 | 10.64 | 1.581 | ok | 1.580 | 1.520-1.640 |
| 1,3,5-Trimethylbenzene | 16.36 | 10.64 | 1.538 | ok | 1.537 | 1.477-1.597 |
| 2,2,4-Trimethylpentane | 5.55 | 4.84 | 1.147 | ok | 1.146 | 1.086-1.206 |
| Tertiary Butyl Alcohol | 2.52 | 3.46 | 0.728 | ok | 0.730 | 0.670-0.790 |
| Tetrachloroethylene | 9.48 | 4.84 | 1.959 | ok | 1.955 | 1.895-2.015 |
| Tetrahydrofuran | 3.77 | 3.46 | 1.090 | ok | 1.091 | 1.031-1.151 |
| Toluene | 7.70 | 4.84 | 1.591 | ok | 1.588 | 1.528-1.648 |
| Trichloroethylene | 5.45 | 4.84 | 1.126 | ok | 1.125 | 1.065-1.185 |
| Trichlorofluoromethane | 2.32 | 3.46 | 0.671 | ok | 0.669 | 0.609-0.729 |
| Vinyl chloride | 1.95 | 3.46 | 0.564 | ok | 0.563 | 0.503-0.623 |
| Vinyl Acetate | 3.06 | 3.46 | 0.884 | ok | 0.884 | 0.824-0.944 |
| m,p-Xylene | 12.06 | 10.64 | 1.133 | ok | 1.133 | 1.073-1.193 |
| o-Xylene | 13.00 | 10.64 | 1.222 | ok | 1.222 | 1.162-1.282 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.46 | ok | 3.47 | 3.14-3.80 | 271432 | ok | 264398 | 158639-370157 |
| 1,4-Difluorobenzene | 4.84 | ok | 4.85 | 4.52-5.18 | 1739008 | ok | 1673779 | 1004267-2343291 |
| Chlorobenzene-D5 | 10.64 | ok | 10.64 | 10.31-10.97 | 1564554 | ok | 1567527 | 940516-2194538 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.26 | 3.47 | 0.651 | ok | 0.654 | 0.594-0.714 |
| Acrolein | 2.23 | 3.47 | 0.643 | ok | 0.643 | 0.583-0.703 |
| Acrylonitrile | 2.40 | 3.47 | 0.692 | ok | 0.693 | 0.633-0.753 |
| Acetonitrile | 2.19 | 3.47 | 0.631 | ok | 0.632 | 0.572-0.692 |
| 1,3-Butadiene | 1.99 | 3.47 | 0.573 | ok | 0.573 | 0.513-0.633 |
| Benzene | 4.50 | 3.47 | 1.297 | ok | 1.298 | 1.238-1.358 |
| Bromobenzene | 14.43 | 10.64 | 1.356 | ok | 1.355 | 1.295-1.415 |
| Bromodichloromethane | 5.41 | 4.85 | 1.115 | ok | 1.115 | 1.055-1.175 |
| Bromoform | 11.88 | 10.64 | 1.117 | ok | 1.115 | 1.055-1.175 |
| Bromomethane | 2.06 | 3.47 | 0.594 | ok | 0.594 | 0.534-0.654 |
| Bromoethene | 2.20 | 3.47 | 0.634 | ok | 0.634 | 0.574-0.694 |
| n-Butane | 2.00 | 3.47 | 0.576 | ok | 0.577 | 0.517-0.637 |
| Benzyl Chloride | 16.90 | 10.64 | 1.588 | ok | 1.588 | 1.528-1.648 |
| n-Butylbenzene | 17.60 | 10.64 | 1.654 | ok | 1.654 | 1.594-1.714 |
| sec-Butylbenzene | 17.09 | 10.64 | 1.606 | ok | 1.605 | 1.545-1.665 |
| tert-Butylbenzene | 16.81 | 10.64 | 1.580 | ok | 1.579 | 1.519-1.639 |
| Carbon disulfide | 2.65 | 3.47 | 0.764 | ok | 0.764 | 0.704-0.824 |
| Chlorobenzene | 10.73 | 10.64 | 1.008 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.82 | 3.47 | 0.524 | ok | 0.525 | 0.465-0.585 |
| Chloroethane | 2.10 | 3.47 | 0.605 | ok | 0.606 | 0.546-0.666 |
| Chlorotrifluoroethene | 1.83 | 3.47 | 0.527 | ok | 0.529 | 0.469-0.589 |
| Chloroform | 3.55 | 3.47 | 1.023 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.89 | 3.47 | 0.545 | ok | 0.545 | 0.485-0.605 |
| 3-Chloropropene | 2.60 | 3.47 | 0.749 | ok | 0.748 | 0.688-0.808 |
| 2-Chlorotoluene | 15.56 | 10.64 | 1.462 | ok | 1.461 | 1.401-1.521 |
| Carbon tetrachloride | 4.62 | 3.47 | 1.331 | ok | 1.331 | 1.271-1.391 |
| Cyclohexane | 4.72 | 4.85 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.99 | 3.47 | 0.862 | ok | 0.861 | 0.801-0.921 |
| 1,1-Dichloroethylene | 2.52 | 3.47 | 0.726 | ok | 0.726 | 0.666-0.786 |
| 1,2-Dibromoethane (EDB) | 8.62 | 4.85 | 1.777 | ok | 1.777 | 1.717-1.837 |
| 1,2-Dichloroethane | 3.99 | 3.47 | 1.150 | ok | 1.151 | 1.091-1.211 |
| 1,2-Dichloropropane | 5.22 | 4.85 | 1.076 | ok | 1.076 | 1.016-1.136 |
| 1,3-Dichloropropane | 7.77 | 4.85 | 1.602 | ok | 1.602 | 1.542-1.662 |
| 1,4-Dioxane | 5.48 | 4.85 | 1.130 | ok | 1.132 | 1.072-1.192 |
| Dichlorodifluoromethane | 1.85 | 3.47 | 0.533 | ok | 0.533 | 0.473-0.593 |
| Dichlorofluoromethane | 2.13 | 3.47 | 0.614 | ok | 0.614 | 0.554-0.674 |
| Dibromochloromethane | 8.26 | 4.85 | 1.703 | ok | 1.703 | 1.643-1.763 |
| Dibromomethane | 5.17 | 4.85 | 1.066 | ok | 1.066 | 1.006-1.126 |
| trans-1,2-Dichloroethylene | 2.90 | 3.47 | 0.836 | ok | 0.837 | 0.777-0.897 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.39 | 3.47 | 0.977 | ok | 0.977 | 0.917-1.037 |
| cis-1,3-Dichloropropene | 6.45 | 4.85 | 1.330 | ok | 1.328 | 1.268-1.388 |
| m-Dichlorobenzene | 16.88 | 10.64 | 1.586 | ok | 1.586 | 1.526-1.646 |
| o-Dichlorobenzene | 17.25 | 10.64 | 1.621 | ok | 1.621 | 1.561-1.681 |
| p-Dichlorobenzene | 16.96 | 10.64 | 1.594 | ok | 1.593 | 1.533-1.653 |
| trans-1,3-Dichloropropene | 7.16 | 4.85 | 1.476 | ok | 1.475 | 1.415-1.535 |
| Di-Isopropyl ether | 3.53 | 3.47 | 1.017 | ok | 1.019 | 0.959-1.079 |
| 2,3-Dimethylpentane | 4.99 | 4.85 | 1.029 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.08 | 3.47 | 1.176 | ok | 1.176 | 1.116-1.236 |
| Ethanol | 2.13 | 3.47 | 0.614 | ok | 0.615 | 0.555-0.675 |
| Ethylbenzene | 11.63 | 10.64 | 1.093 | ok | 1.092 | 1.032-1.152 |
| Ethyl Acetate | 3.54 | 3.47 | 1.020 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.35 | 4.85 | 1.103 | ok | 1.103 | 1.043-1.163 |
| 4-Ethyltoluene | 16.23 | 10.64 | 1.525 | ok | 1.524 | 1.464-1.584 |
| Freon 113 | 2.65 | 3.47 | 0.764 | ok | 0.765 | 0.705-0.825 |
| Freon 114 | 1.92 | 3.47 | 0.553 | ok | 0.554 | 0.494-0.614 |
| Freon 115 | 1.79 | 3.47 | 0.516 | ok | 0.515 | 0.455-0.575 |
| Freon 123 | 2.24 | 3.47 | 0.646 | ok | 0.648 | 0.588-0.708 |
| Freon 123A | 2.26 | 3.47 | 0.651 | ok | 0.651 | 0.591-0.711 |
| Freon 142B | 1.89 | 3.47 | 0.545 | ok | 0.545 | 0.485-0.605 |
| Freon 152A | 1.81 | 3.47 | 0.522 | ok | 0.523 | 0.463-0.583 |
| Heptane | 5.89 | 4.85 | 1.214 | ok | 1.214 | 1.154-1.274 |
| Hexachlorobutadiene | 18.82 | 10.64 | 1.769 | ok | 1.768 | 1.708-1.828 |
| Hexachloroethane | 17.78 | 10.64 | 1.671 | ok | 1.671 | 1.611-1.731 |
| Hexane | 3.53 | 3.47 | 1.017 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.30 | 4.85 | 1.711 | ok | 1.712 | 1.652-1.772 |
| Iodomethane | 2.49 | 3.47 | 0.718 | ok | 0.718 | 0.658-0.778 |
| Isopropylbenzene | 14.55 | 10.64 | 1.367 | ok | 1.366 | 1.306-1.426 |
| Isopropyl Alcohol | 2.34 | 3.47 | 0.674 | ok | 0.674 | 0.614-0.734 |
| p-Isopropyltoluene | 17.26 | 10.64 | 1.622 | ok | 1.622 | 1.562-1.682 |
| Methylene chloride | 2.55 | 3.47 | 0.735 | ok | 0.735 | 0.675-0.795 |
| Methyl ethyl ketone | 3.17 | 3.47 | 0.914 | ok | 0.914 | 0.854-0.974 |
| Methyl Isobutyl Ketone | 6.56 | 4.85 | 1.353 | ok | 1.353 | 1.293-1.413 |
| Methyl Tert Butyl Ether | 3.02 | 3.47 | 0.870 | ok | 0.871 | 0.811-0.931 |
| Methylmethacrylate | 5.79 | 4.85 | 1.194 | ok | 1.194 | 1.134-1.254 |
| Naphthalene | 18.56 | 10.64 | 1.744 | ok | 1.744 | 1.684-1.804 |
| Nonane | 14.14 | 10.64 | 1.329 | ok | 1.328 | 1.268-1.388 |
| Octane | 9.63 | 4.85 | 1.986 | ok | 1.985 | 1.925-2.045 |
| Pentane | 2.43 | 3.47 | 0.700 | ok | 0.701 | 0.641-0.761 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| n-Propylbenzene | 15.90 | 10.64 | 1.494 | ok | 1.493 | 1.433-1.553 |
| Propylene | 1.83 | 3.47 | 0.527 | ok | 0.528 | 0.468-0.588 |
| Styrene | 12.79 | 10.64 | 1.202 | ok | 1.202 | 1.142-1.262 |
| 1,1,1-Trichloroethane | 4.17 | 3.47 | 1.202 | ok | 1.201 | 1.141-1.261 |
| 1,1,1,2-Tetrachloroethane | 10.75 | 10.64 | 1.010 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.04 | 10.64 | 1.226 | ok | 1.224 | 1.164-1.284 |
| 1,1,2-Trichloroethane | 7.33 | 4.85 | 1.511 | ok | 1.510 | 1.450-1.570 |
| 1,2,4-Trichlorobenzene | 18.51 | 10.64 | 1.740 | ok | 1.739 | 1.679-1.799 |
| 1,2,3-Trichloropropane | 13.32 | 10.64 | 1.252 | ok | 1.250 | 1.190-1.310 |
| 1,2,3-Trimethylbenzene | 17.20 | 10.64 | 1.617 | ok | 1.616 | 1.556-1.676 |
| 1,2,4-Trimethylbenzene | 16.83 | 10.64 | 1.582 | ok | 1.580 | 1.520-1.640 |
| 1,3,5-Trimethylbenzene | 16.37 | 10.64 | 1.539 | ok | 1.537 | 1.477-1.597 |
| 2,2,4-Trimethylpentane | 5.56 | 4.85 | 1.146 | ok | 1.146 | 1.086-1.206 |
| Tertiary Butyl Alcohol | 2.53 | 3.47 | 0.729 | ok | 0.730 | 0.670-0.790 |
| Tetrachloroethylene | 9.49 | 4.85 | 1.957 | ok | 1.955 | 1.895-2.015 |
| Tetrahydrofuran | 3.78 | 3.47 | 1.089 | ok | 1.091 | 1.031-1.151 |
| Toluene | 7.71 | 4.85 | 1.590 | ok | 1.588 | 1.528-1.648 |
| Trichloroethylene | 5.46 | 4.85 | 1.126 | ok | 1.125 | 1.065-1.185 |
| Trichlorofluoromethane | 2.32 | 3.47 | 0.669 | ok | 0.669 | 0.609-0.729 |
| Vinyl chloride | 1.95 | 3.47 | 0.562 | ok | 0.563 | 0.503-0.623 |
| Vinyl Acetate | 3.07 | 3.47 | 0.885 | ok | 0.884 | 0.824-0.944 |
| m,p-Xylene | 12.07 | 10.64 | 1.134 | ok | 1.133 | 1.073-1.193 |
| o-Xylene | 13.01 | 10.64 | 1.223 | ok | 1.222 | 1.162-1.282 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.47 | ok | 3.47 | 3.14-3.80 | 270062 | ok | 264398 | 158639-370157 |
| 1,4-Difluorobenzene | 4.85 | ok | 4.85 | 4.52-5.18 | 1710406 | ok | 1673779 | 1004267-2343291 |
| Chlorobenzene-D5 | 10.64 | ok | 10.64 | 10.31-10.97 | 1562922 | ok | 1567527 | 940516-2194538 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.27 | 3.47 | 0.654 | ok | 0.654 | 0.594-0.714 |
| Acrolein | 2.23 | 3.47 | 0.643 | ok | 0.643 | 0.583-0.703 |
| Acrylonitrile | 2.40 | 3.47 | 0.692 | ok | 0.693 | 0.633-0.753 |
| Acetonitrile | 2.19 | 3.47 | 0.631 | ok | 0.632 | 0.572-0.692 |
| 1,3-Butadiene | 1.99 | 3.47 | 0.573 | ok | 0.573 | 0.513-0.633 |
| Benzene | 4.51 | 3.47 | 1.300 | ok | 1.298 | 1.238-1.358 |
| Bromobenzene | 14.45 | 10.65 | 1.357 | ok | 1.355 | 1.295-1.415 |
| Bromodichloromethane | 5.42 | 4.85 | 1.118 | ok | 1.115 | 1.055-1.175 |
| Bromoform | 11.90 | 10.65 | 1.117 | ok | 1.115 | 1.055-1.175 |
| Bromomethane | 2.06 | 3.47 | 0.594 | ok | 0.594 | 0.534-0.654 |
| Bromoethene | 2.20 | 3.47 | 0.634 | ok | 0.634 | 0.574-0.694 |
| n-Butane | 2.00 | 3.47 | 0.576 | ok | 0.577 | 0.517-0.637 |
| Benzyl Chloride | 16.92 | 10.65 | 1.589 | ok | 1.588 | 1.528-1.648 |
| n-Butylbenzene | 17.61 | 10.65 | 1.654 | ok | 1.654 | 1.594-1.714 |
| sec-Butylbenzene | 17.10 | 10.65 | 1.606 | ok | 1.605 | 1.545-1.665 |
| tert-Butylbenzene | 16.82 | 10.65 | 1.579 | ok | 1.579 | 1.519-1.639 |
| Carbon disulfide | 2.65 | 3.47 | 0.764 | ok | 0.764 | 0.704-0.824 |
| Chlorobenzene | 10.75 | 10.65 | 1.009 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.82 | 3.47 | 0.524 | ok | 0.525 | 0.465-0.585 |
| Chloroethane | 2.10 | 3.47 | 0.605 | ok | 0.606 | 0.546-0.666 |
| Chlorotrifluoroethene | 1.83 | 3.47 | 0.527 | ok | 0.529 | 0.469-0.589 |
| Chloroform | 3.56 | 3.47 | 1.026 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.89 | 3.47 | 0.545 | ok | 0.545 | 0.485-0.605 |
| 3-Chloropropene | 2.60 | 3.47 | 0.749 | ok | 0.748 | 0.688-0.808 |
| 2-Chlorotoluene | 15.58 | 10.65 | 1.463 | ok | 1.461 | 1.401-1.521 |
| Carbon tetrachloride | 4.62 | 3.47 | 1.331 | ok | 1.331 | 1.271-1.391 |
| Cyclohexane | 4.72 | 4.85 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.99 | 3.47 | 0.862 | ok | 0.861 | 0.801-0.921 |
| 1,1-Dichloroethylene | 2.52 | 3.47 | 0.726 | ok | 0.726 | 0.666-0.786 |
| 1,2-Dibromoethane (EDB) | 8.65 | 4.85 | 1.784 | ok | 1.777 | 1.717-1.837 |
| 1,2-Dichloroethane | 4.00 | 3.47 | 1.153 | ok | 1.151 | 1.091-1.211 |
| 1,2-Dichloropropane | 5.23 | 4.85 | 1.078 | ok | 1.076 | 1.016-1.136 |
| 1,3-Dichloropropane | 7.79 | 4.85 | 1.606 | ok | 1.602 | 1.542-1.662 |
| 1,4-Dioxane | 5.49 | 4.85 | 1.132 | ok | 1.132 | 1.072-1.192 |
| Dichlorodifluoromethane | 1.85 | 3.47 | 0.533 | ok | 0.533 | 0.473-0.593 |
| Dichlorofluoromethane | 2.13 | 3.47 | 0.614 | ok | 0.614 | 0.554-0.674 |
| Dibromochloromethane | 8.27 | 4.85 | 1.705 | ok | 1.703 | 1.643-1.763 |
| Dibromomethane | 5.18 | 4.85 | 1.068 | ok | 1.066 | 1.006-1.126 |
| trans-1,2-Dichloroethylene | 2.90 | 3.47 | 0.836 | ok | 0.837 | 0.777-0.897 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.39 | 3.47 | 0.977 | ok | 0.977 | 0.917-1.037 |
| cis-1,3-Dichloropropene | 6.45 | 4.85 | 1.330 | ok | 1.328 | 1.268-1.388 |
| m-Dichlorobenzene | 16.90 | 10.65 | 1.587 | ok | 1.586 | 1.526-1.646 |
| o-Dichlorobenzene | 17.26 | 10.65 | 1.621 | ok | 1.621 | 1.561-1.681 |
| p-Dichlorobenzene | 16.97 | 10.65 | 1.593 | ok | 1.593 | 1.533-1.653 |
| trans-1,3-Dichloropropene | 7.17 | 4.85 | 1.478 | ok | 1.475 | 1.415-1.535 |
| Di-Isopropyl ether | 3.54 | 3.47 | 1.020 | ok | 1.019 | 0.959-1.079 |
| 2,3-Dimethylpentane | 5.00 | 4.85 | 1.031 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.08 | 3.47 | 1.176 | ok | 1.176 | 1.116-1.236 |
| Ethanol | 2.13 | 3.47 | 0.614 | ok | 0.615 | 0.555-0.675 |
| Ethylbenzene | 11.64 | 10.65 | 1.093 | ok | 1.092 | 1.032-1.152 |
| Ethyl Acetate | 3.55 | 3.47 | 1.023 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.36 | 4.85 | 1.105 | ok | 1.103 | 1.043-1.163 |
| 4-Ethyltoluene | 16.24 | 10.65 | 1.525 | ok | 1.524 | 1.464-1.584 |
| Freon 113 | 2.65 | 3.47 | 0.764 | ok | 0.765 | 0.705-0.825 |
| Freon 114 | 1.92 | 3.47 | 0.553 | ok | 0.554 | 0.494-0.614 |
| Freon 123 | 2.25 | 3.47 | 0.648 | ok | 0.648 | 0.588-0.708 |
| Freon 123A | 2.26 | 3.47 | 0.651 | ok | 0.651 | 0.591-0.711 |
| Freon 142B | 1.89 | 3.47 | 0.545 | ok | 0.545 | 0.485-0.605 |
| Freon 152A | 1.81 | 3.47 | 0.522 | ok | 0.523 | 0.463-0.583 |
| Heptane | 5.90 | 4.85 | 1.216 | ok | 1.214 | 1.154-1.274 |
| Hexachlorobutadiene | 18.82 | 10.65 | 1.767 | ok | 1.768 | 1.708-1.828 |
| Hexachloroethane | 17.79 | 10.65 | 1.670 | ok | 1.671 | 1.611-1.731 |
| Hexane | 3.53 | 3.47 | 1.017 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.33 | 4.85 | 1.718 | ok | 1.712 | 1.652-1.772 |
| Iodomethane | 2.49 | 3.47 | 0.718 | ok | 0.718 | 0.658-0.778 |
| Isopropylbenzene | 14.58 | 10.65 | 1.369 | ok | 1.366 | 1.306-1.426 |
| Isopropyl Alcohol | 2.34 | 3.47 | 0.674 | ok | 0.674 | 0.614-0.734 |
| p-Isopropyltoluene | 17.27 | 10.65 | 1.622 | ok | 1.622 | 1.562-1.682 |
| Methylene chloride | 2.55 | 3.47 | 0.735 | ok | 0.735 | 0.675-0.795 |
| Methyl ethyl ketone | 3.17 | 3.47 | 0.914 | ok | 0.914 | 0.854-0.974 |
| Methyl Isobutyl Ketone | 6.58 | 4.85 | 1.357 | ok | 1.353 | 1.293-1.413 |
| Methyl Tert Butyl Ether | 3.02 | 3.47 | 0.870 | ok | 0.871 | 0.811-0.931 |
| Methylmethacrylate | 5.80 | 4.85 | 1.196 | ok | 1.194 | 1.134-1.254 |
| Naphthalene | 18.57 | 10.65 | 1.744 | ok | 1.744 | 1.684-1.804 |
| Nonane | 14.17 | 10.65 | 1.331 | ok | 1.328 | 1.268-1.388 |
| Octane | 9.65 | 4.85 | 1.990 | ok | 1.985 | 1.925-2.045 |
| Pentane | 2.43 | 3.47 | 0.700 | ok | 0.701 | 0.641-0.761 |
| n-Propylbenzene | 15.92 | 10.65 | 1.495 | ok | 1.493 | 1.433-1.553 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | Reporting this level |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.83 | 3.47 | 0.527 | ok | 0.528 | 0.468-0.588 |
| Styrene | 12.81 | 10.65 | 1.203 | ok | 1.202 | 1.142-1.262 |
| 1,1,1-Trichloroethane | 4.17 | 3.47 | 1.202 | ok | 1.201 | 1.141-1.261 |
| 1,1,1,2-Tetrachloroethane | 10.77 | 10.65 | 1.011 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.06 | 10.65 | 1.226 | ok | 1.224 | 1.164-1.284 |
| 1,1,2-Trichloroethane | 7.34 | 4.85 | 1.513 | ok | 1.510 | 1.450-1.570 |
| 1,2,4-Trichlorobenzene | 18.52 | 10.65 | 1.739 | ok | 1.739 | 1.679-1.799 |
| 1,2,3-Trichloropropane | 13.35 | 10.65 | 1.254 | ok | 1.250 | 1.190-1.310 |
| 1,2,3-Trimethylbenzene | 17.21 | 10.65 | 1.616 | ok | 1.616 | 1.556-1.676 |
| 1,2,4-Trimethylbenzene | 16.84 | 10.65 | 1.581 | ok | 1.580 | 1.520-1.640 |
| 1,3,5-Trimethylbenzene | 16.38 | 10.65 | 1.538 | ok | 1.537 | 1.477-1.597 |
| 2,2,4-Trimethylpentane | 5.57 | 4.85 | 1.148 | ok | 1.146 | 1.086-1.206 |
| Tertiary Butyl Alcohol | 2.53 | 3.47 | 0.729 | ok | 0.730 | 0.670-0.790 |
| Tetrachloroethylene | 9.50 | 4.85 | 1.959 | ok | 1.955 | 1.895-2.015 |
| Tetrahydrofuran | 3.78 | 3.47 | 1.089 | ok | 1.091 | 1.031-1.151 |
| Toluene | 7.71 | 4.85 | 1.590 | ok | 1.588 | 1.528-1.648 |
| Trichloroethylene | 5.47 | 4.85 | 1.128 | ok | 1.125 | 1.065-1.185 |
| Trichlorofluoromethane | 2.32 | 3.47 | 0.669 | ok | 0.669 | 0.609-0.729 |
| Vinyl chloride | 1.95 | 3.47 | 0.562 | ok | 0.563 | 0.503-0.623 |
| Vinyl Acetate | 3.07 | 3.47 | 0.885 | ok | 0.884 | 0.824-0.944 |
| m,p-Xylene | 12.10 | 10.65 | 1.136 | ok | 1.133 | 1.073-1.193 |
| o-Xylene | 13.03 | 10.65 | 1.223 | ok | 1.222 | 1.162-1.282 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.47 | ok | 3.47 | 3.14-3.80 | 255124 | ok | 264398 | 158639-370157 |
| 1,4-Difluorobenzene | 4.85 | ok | 4.85 | 4.52-5.18 | 1582387 | ok | 1673779 | 1004267-2343291 |
| Chlorobenzene-D5 | 10.65 | ok | 10.64 | 10.31-10.97 | 1482477 | ok | 1567527 | 940516-2194538 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.27 | 3.47 | 0.654 | ok | 0.654 | 0.594-0.714 |
| Acrolein | 2.23 | 3.47 | 0.643 | ok | 0.643 | 0.583-0.703 |
| Acrylonitrile | 2.41 | 3.47 | 0.695 | ok | 0.693 | 0.633-0.753 |
| Acetonitrile | 2.19 | 3.47 | 0.631 | ok | 0.632 | 0.572-0.692 |
| 1,3-Butadiene | 1.99 | 3.47 | 0.573 | ok | 0.573 | 0.513-0.633 |
| Benzene | 4.51 | 3.47 | 1.300 | ok | 1.298 | 1.238-1.358 |
| Bromobenzene | 14.47 | 10.65 | 1.359 | ok | 1.355 | 1.295-1.415 |
| Bromodichloromethane | 5.43 | 4.85 | 1.120 | ok | 1.115 | 1.055-1.175 |
| Bromoform | 11.91 | 10.65 | 1.118 | ok | 1.115 | 1.055-1.175 |
| Bromomethane | 2.06 | 3.47 | 0.594 | ok | 0.594 | 0.534-0.654 |
| Bromoethene | 2.20 | 3.47 | 0.634 | ok | 0.634 | 0.574-0.694 |
| n-Butane | 2.00 | 3.47 | 0.576 | ok | 0.577 | 0.517-0.637 |
| Benzyl Chloride | 16.92 | 10.65 | 1.589 | ok | 1.588 | 1.528-1.648 |
| n-Butylbenzene | 17.62 | 10.65 | 1.654 | ok | 1.654 | 1.594-1.714 |
| sec-Butylbenzene | 17.10 | 10.65 | 1.606 | ok | 1.605 | 1.545-1.665 |
| tert-Butylbenzene | 16.83 | 10.65 | 1.580 | ok | 1.579 | 1.519-1.639 |
| Carbon disulfide | 2.65 | 3.47 | 0.764 | ok | 0.764 | 0.704-0.824 |
| Chlorobenzene | 10.76 | 10.65 | 1.010 | ok | 1.008 | 0.948-1.068 |
| Chlorodifluoromethane | 1.82 | 3.47 | 0.524 | ok | 0.525 | 0.465-0.585 |
| Chloroethane | 2.10 | 3.47 | 0.605 | ok | 0.606 | 0.546-0.666 |
| Chlorotrifluoroethene | 1.83 | 3.47 | 0.527 | ok | 0.529 | 0.469-0.589 |
| Chloroform | 3.57 | 3.47 | 1.029 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.89 | 3.47 | 0.545 | ok | 0.545 | 0.485-0.605 |
| 3-Chloropropene | 2.60 | 3.47 | 0.749 | ok | 0.748 | 0.688-0.808 |
| 2-Chlorotoluene | 15.59 | 10.65 | 1.464 | ok | 1.461 | 1.401-1.521 |
| Carbon tetrachloride | 4.62 | 3.47 | 1.331 | ok | 1.331 | 1.271-1.391 |
| Cyclohexane | 4.72 | 4.85 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.99 | 3.47 | 0.862 | ok | 0.861 | 0.801-0.921 |
| 1,1-Dichloroethylene | 2.52 | 3.47 | 0.726 | ok | 0.726 | 0.666-0.786 |
| 1,2-Dibromoethane (EDB) | 8.66 | 4.85 | 1.786 | ok | 1.777 | 1.717-1.837 |
| 1,2-Dichloroethane | 4.00 | 3.47 | 1.153 | ok | 1.151 | 1.091-1.211 |
| 1,2-Dichloropropane | 5.23 | 4.85 | 1.078 | ok | 1.076 | 1.016-1.136 |
| 1,3-Dichloropropane | 7.80 | 4.85 | 1.608 | ok | 1.602 | 1.542-1.662 |
| 1,4-Dioxane | 5.50 | 4.85 | 1.134 | ok | 1.132 | 1.072-1.192 |
| Dichlorodifluoromethane | 1.85 | 3.47 | 0.533 | ok | 0.533 | 0.473-0.593 |
| Dichlorofluoromethane | 2.13 | 3.47 | 0.614 | ok | 0.614 | 0.554-0.674 |
| Dibromochloromethane | 8.28 | 4.85 | 1.707 | ok | 1.703 | 1.643-1.763 |
| Dibromomethane | 5.18 | 4.85 | 1.068 | ok | 1.066 | 1.006-1.126 |
| trans-1,2-Dichloroethylene | 2.90 | 3.47 | 0.836 | ok | 0.837 | 0.777-0.897 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.39 | 3.47 | 0.977 | ok | 0.977 | 0.917-1.037 |
| cis-1,3-Dichloropropene | 6.46 | 4.85 | 1.332 | ok | 1.328 | 1.268-1.388 |
| m-Dichlorobenzene | 16.90 | 10.65 | 1.587 | ok | 1.586 | 1.526-1.646 |
| o-Dichlorobenzene | 17.27 | 10.65 | 1.622 | ok | 1.621 | 1.561-1.681 |
| p-Dichlorobenzene | 16.98 | 10.65 | 1.594 | ok | 1.593 | 1.533-1.653 |
| trans-1,3-Dichloropropene | 7.17 | 4.85 | 1.478 | ok | 1.475 | 1.415-1.535 |
| Di-Isopropyl ether | 3.54 | 3.47 | 1.020 | ok | 1.019 | 0.959-1.079 |
| 2,3-Dimethylpentane | 5.00 | 4.85 | 1.031 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.09 | 3.47 | 1.179 | ok | 1.176 | 1.116-1.236 |
| Ethanol | 2.14 | 3.47 | 0.617 | ok | 0.615 | 0.555-0.675 |
| Ethylbenzene | 11.65 | 10.65 | 1.094 | ok | 1.092 | 1.032-1.152 |
| Ethyl Acetate | 3.55 | 3.47 | 1.023 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.37 | 4.85 | 1.107 | ok | 1.103 | 1.043-1.163 |
| 4-Ethyltoluene | 16.24 | 10.65 | 1.525 | ok | 1.524 | 1.464-1.584 |
| Freon 113 | 2.65 | 3.47 | 0.764 | ok | 0.765 | 0.705-0.825 |
| Freon 114 | 1.92 | 3.47 | 0.553 | ok | 0.554 | 0.494-0.614 |
| Freon 123 | 2.25 | 3.47 | 0.648 | ok | 0.648 | 0.588-0.708 |
| Freon 123A | 2.26 | 3.47 | 0.651 | ok | 0.651 | 0.591-0.711 |
| Freon 142B | 1.89 | 3.47 | 0.545 | ok | 0.545 | 0.485-0.605 |
| Freon 152A | 1.81 | 3.47 | 0.522 | ok | 0.523 | 0.463-0.583 |
| Heptane | 5.90 | 4.85 | 1.216 | ok | 1.214 | 1.154-1.274 |
| Hexachlorobutadiene | 18.83 | 10.65 | 1.768 | ok | 1.768 | 1.708-1.828 |
| Hexachloroethane | 17.79 | 10.65 | 1.670 | ok | 1.671 | 1.611-1.731 |
| Hexane | 3.53 | 3.47 | 1.017 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.34 | 4.85 | 1.720 | ok | 1.712 | 1.652-1.772 |
| Iodomethane | 2.49 | 3.47 | 0.718 | ok | 0.718 | 0.658-0.778 |
| Isopropylbenzene | 14.59 | 10.65 | 1.370 | ok | 1.366 | 1.306-1.426 |
| Isopropyl Alcohol | 2.34 | 3.47 | 0.674 | ok | 0.674 | 0.614-0.734 |
| p-Isopropyltoluene | 17.28 | 10.65 | 1.623 | ok | 1.622 | 1.562-1.682 |
| Methylene chloride | 2.55 | 3.47 | 0.735 | ok | 0.735 | 0.675-0.795 |
| Methyl ethyl ketone | 3.18 | 3.47 | 0.916 | ok | 0.914 | 0.854-0.974 |
| Methyl Isobutyl Ketone | 6.59 | 4.85 | 1.359 | ok | 1.353 | 1.293-1.413 |
| Methyl Tert Butyl Ether | 3.02 | 3.47 | 0.870 | ok | 0.871 | 0.811-0.931 |
| Methylmethacrylate | 5.81 | 4.85 | 1.198 | ok | 1.194 | 1.134-1.254 |
| Naphthalene | 18.57 | 10.65 | 1.744 | ok | 1.744 | 1.684-1.804 |
| Nonane | 14.18 | 10.65 | 1.331 | ok | 1.328 | 1.268-1.388 |
| Octane | 9.66 | 4.85 | 1.992 | ok | 1.985 | 1.925-2.045 |
| Pentane | 2.43 | 3.47 | 0.700 | ok | 0.701 | 0.641-0.761 |
| n-Propylbenzene | 15.93 | 10.65 | 1.496 | ok | 1.493 | 1.433-1.553 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | TCH | 50 | GCMS2W | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.83 | 3.47 | 0.527 | ok | 0.528 | 0.468-0.588 |
| Styrene | 12.83 | 10.65 | 1.205 | ok | 1.202 | 1.142-1.262 |
| 1,1,1-Trichloroethane | 4.17 | 3.47 | 1.202 | ok | 1.201 | 1.141-1.261 |
| 1,1,1,2-Tetrachloroethane | 10.78 | 10.65 | 1.012 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.07 | 10.65 | 1.227 | ok | 1.224 | 1.164-1.284 |
| 1,1,2-Trichloroethane | 7.34 | 4.85 | 1.513 | ok | 1.510 | 1.450-1.570 |
| 1,2,4-Trichlorobenzene | 18.52 | 10.65 | 1.739 | ok | 1.739 | 1.679-1.799 |
| 1,2,3-Trichloropropane | 13.36 | 10.65 | 1.254 | ok | 1.250 | 1.190-1.310 |
| 1,2,3-Trimethylbenzene | 17.22 | 10.65 | 1.617 | ok | 1.616 | 1.556-1.676 |
| 1,2,4-Trimethylbenzene | 16.84 | 10.65 | 1.581 | ok | 1.580 | 1.520-1.640 |
| 1,3,5-Trimethylbenzene | 16.39 | 10.65 | 1.539 | ok | 1.537 | 1.477-1.597 |
| 2,2,4-Trimethylpentane | 5.57 | 4.85 | 1.148 | ok | 1.146 | 1.086-1.206 |
| Tertiary Butyl Alcohol | 2.53 | 3.47 | 0.729 | ok | 0.730 | 0.670-0.790 |
| Tetrachloroethylene | 9.51 | 4.85 | 1.961 | ok | 1.955 | 1.895-2.015 |
| Tetrahydrofuran | 3.78 | 3.47 | 1.089 | ok | 1.091 | 1.031-1.151 |
| Toluene | 7.72 | 4.85 | 1.592 | ok | 1.588 | 1.528-1.648 |
| Trichloroethylene | 5.48 | 4.85 | 1.130 | ok | 1.125 | 1.065-1.185 |
| Trichlorofluoromethane | 2.32 | 3.47 | 0.669 | ok | 0.669 | 0.609-0.729 |
| Vinyl chloride | 1.95 | 3.47 | 0.562 | ok | 0.563 | 0.503-0.623 |
| Vinyl Acetate | 3.07 | 3.47 | 0.885 | ok | 0.884 | 0.824-0.944 |
| m,p-Xylene | 12.11 | 10.65 | 1.137 | ok | 1.133 | 1.073-1.193 |
| o-Xylene | 13.04 | 10.65 | 1.224 | ok | 1.222 | 1.162-1.282 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.47 | ok | 3.47 | 3.14-3.80 | 248917 | ok | 264398 | 158639-370157 |
| 1,4-Difluorobenzene | 4.85 | ok | 4.85 | 4.52-5.18 | 1556184 | ok | 1673779 | 1004267-2343291 |
| Chlorobenzene-D5 | 10.65 | ok | 10.64 | 10.31-10.97 | 1462770 | ok | 1567527 | 940516-2194538 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Tetrachloroethylene | 9.45 | 4.93 | 1.917 | ok | 1.917 | 1.857-1.977 |
| Trichloroethylene | 5.52 | 4.93 | 1.120 | ok | 1.119 | 1.059-1.179 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.61 | ok | 3.61 | 3.28-3.94 | 65497 | ok | 69048 | 41429-96667 |
| 1,4-Difluorobenzene | 4.93 | ok | 4.93 | 4.60-5.26 | 359956 | ok | 370656 | 222394-518918 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 318930 | ok | 336964 | 202178-471750 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.47 | 3.61 | 0.684 | ok | 0.682 | 0.622-0.742 |
| Acrolein | 2.42 | 3.61 | 0.670 | ok | 0.670 | 0.610-0.730 |
| Acrylonitrile | 2.60 | 3.61 | 0.720 | ok | 0.721 | 0.661-0.781 |
| Acetonitrile | 2.37 | 3.61 | 0.657 | ok | 0.657 | 0.597-0.717 |
| 1,3-Butadiene | 2.08 | 3.61 | 0.576 | ok | 0.578 | 0.518-0.638 |
| Benzene | 4.60 | 3.61 | 1.274 | ok | 1.274 | 1.214-1.334 |
| Bromobenzene | 14.31 | 10.59 | 1.351 | ok | 1.352 | 1.292-1.412 |
| Bromodichloromethane | 5.46 | 4.93 | 1.108 | ok | 1.108 | 1.048-1.168 |
| Bromoform | 11.78 | 10.59 | 1.112 | ok | 1.114 | 1.054-1.174 |
| Bromomethane | 2.18 | 3.61 | 0.604 | ok | 0.606 | 0.546-0.666 |
| Bromoethene | 2.38 | 3.61 | 0.659 | ok | 0.659 | 0.599-0.719 |
| n-Butane | 2.10 | 3.61 | 0.582 | ok | 0.584 | 0.524-0.644 |
| Benzyl Chloride | 16.85 | 10.59 | 1.591 | ok | 1.592 | 1.532-1.652 |
| n-Butylbenzene | 17.57 | 10.59 | 1.659 | ok | 1.660 | 1.600-1.720 |
| sec-Butylbenzene | 17.04 | 10.59 | 1.609 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.75 | 10.59 | 1.582 | ok | 1.583 | 1.523-1.643 |
| Carbon disulfide | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Chlorobenzene | 10.66 | 10.59 | 1.007 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.86 | 3.61 | 0.515 | ok | 0.517 | 0.457-0.577 |
| Chloroethane | 2.25 | 3.61 | 0.623 | ok | 0.623 | 0.563-0.683 |
| Chlorotrifluoroethene | 1.87 | 3.61 | 0.518 | ok | 0.520 | 0.460-0.580 |
| Chloroform | 3.69 | 3.61 | 1.022 | ok | 1.021 | 0.961-1.081 |
| Chloromethane | 1.95 | 3.61 | 0.540 | ok | 0.542 | 0.482-0.602 |
| 3-Chloropropene | 2.79 | 3.61 | 0.773 | ok | 0.773 | 0.713-0.833 |
| 2-Chlorotoluene | 15.45 | 10.59 | 1.459 | ok | 1.459 | 1.399-1.519 |
| Carbon tetrachloride | 4.71 | 3.61 | 1.305 | ok | 1.305 | 1.245-1.365 |
| Cyclohexane | 4.81 | 4.93 | 0.976 | ok | 0.976 | 0.916-1.036 |
| 1,1-Dichloroethane | 3.16 | 3.61 | 0.875 | ok | 0.875 | 0.815-0.935 |
| 1,1-Dichloroethylene | 2.71 | 3.61 | 0.751 | ok | 0.751 | 0.691-0.811 |
| 1,2-Dibromoethane (EDB) | 8.59 | 4.93 | 1.742 | ok | 1.743 | 1.683-1.803 |
| 1,2-Dichloroethane | 4.11 | 3.61 | 1.139 | ok | 1.139 | 1.079-1.199 |
| 1,2-Dichloropropane | 5.28 | 4.93 | 1.071 | ok | 1.071 | 1.011-1.131 |
| 1,3-Dichloropropane | 7.76 | 4.93 | 1.574 | ok | 1.574 | 1.514-1.634 |
| Dichlorodifluoromethane | 1.89 | 3.61 | 0.524 | ok | 0.526 | 0.466-0.586 |
| Dichlorofluoromethane | 2.28 | 3.61 | 0.632 | ok | 0.633 | 0.573-0.693 |
| Dibromochloromethane | 8.24 | 4.93 | 1.671 | ok | 1.671 | 1.611-1.731 |
| Dibromomethane | 5.24 | 4.93 | 1.063 | ok | 1.063 | 1.003-1.123 |
| trans-1,2-Dichloroethylene | 3.08 | 3.61 | 0.853 | ok | 0.853 | 0.793-0.913 |
| cis-1,2-Dichloroethylene | 3.54 | 3.61 | 0.981 | ok | 0.978 | 0.918-1.038 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 6.46 | 4.93 | 1.310 | ok | 1.313 | 1.253-1.373 |
| m-Dichlorobenzene | 16.82 | 10.59 | 1.588 | ok | 1.590 | 1.530-1.650 |
| o-Dichlorobenzene | 17.20 | 10.59 | 1.624 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.91 | 10.59 | 1.597 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.16 | 4.93 | 1.452 | ok | 1.452 | 1.392-1.512 |
| Di-Isopropyl ether | 3.67 | 3.61 | 1.017 | ok | 1.017 | 0.957-1.077 |
| 2,3-Dimethylpentane | 5.08 | 4.93 | 1.030 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.19 | 3.61 | 1.161 | ok | 1.162 | 1.102-1.222 |
| Ethanol | 2.28 | 3.61 | 0.632 | ok | 0.634 | 0.574-0.694 |
| Ethylbenzene | 11.54 | 10.59 | 1.090 | ok | 1.091 | 1.031-1.151 |
| Ethyl Acrylate | 5.41 | 4.93 | 1.097 | ok | 1.095 | 1.035-1.155 |
| 4-Ethyltoluene | 16.15 | 10.59 | 1.525 | ok | 1.525 | 1.465-1.585 |
| Freon 113 | 2.85 | 3.61 | 0.789 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 1.99 | 3.61 | 0.551 | ok | 0.553 | 0.493-0.613 |
| Freon 123 | 2.44 | 3.61 | 0.676 | ok | 0.674 | 0.614-0.734 |
| Freon 123A | 2.45 | 3.61 | 0.679 | ok | 0.679 | 0.619-0.739 |
| Freon 142B | 1.94 | 3.61 | 0.537 | ok | 0.540 | 0.480-0.600 |
| Freon 152A | 1.84 | 3.61 | 0.510 | ok | 0.512 | 0.452-0.572 |
| Heptane | 5.93 | 4.93 | 1.203 | ok | 1.204 | 1.144-1.264 |
| Hexachlorobutadiene | 18.80 | 10.59 | 1.775 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.75 | 10.59 | 1.676 | ok | 1.677 | 1.617-1.737 |
| Hexane | 3.67 | 3.61 | 1.017 | ok | 1.015 | 0.955-1.075 |
| 2-Hexanone | 8.29 | 4.93 | 1.682 | ok | 1.678 | 1.618-1.738 |
| Iodomethane | 2.69 | 3.61 | 0.745 | ok | 0.745 | 0.685-0.805 |
| Isopropylbenzene | 14.43 | 10.59 | 1.363 | ok | 1.364 | 1.304-1.424 |
| Isopropyl Alcohol | 2.54 | 3.61 | 0.704 | ok | 0.702 | 0.642-0.762 |
| p-Isopropyltoluene | 17.22 | 10.59 | 1.626 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.75 | 3.61 | 0.762 | ok | 0.762 | 0.702-0.822 |
| Methyl ethyl ketone | 3.34 | 3.61 | 0.925 | ok | 0.923 | 0.863-0.983 |
| Methyl Isobutyl Ketone | 6.59 | 4.93 | 1.337 | ok | 1.334 | 1.274-1.394 |
| Methyl Tert Butyl Ether | 3.19 | 3.61 | 0.884 | ok | 0.884 | 0.824-0.944 |
| Methylmethacrylate | 5.84 | 4.93 | 1.185 | ok | 1.182 | 1.122-1.242 |
| Naphthalene | 18.53 | 10.59 | 1.750 | ok | 1.751 | 1.691-1.811 |
| Nonane | 14.03 | 10.59 | 1.325 | ok | 1.326 | 1.266-1.386 |
| Octane | 9.59 | 4.93 | 1.945 | ok | 1.946 | 1.886-2.006 |
| Pentane | 2.63 | 3.61 | 0.729 | ok | 0.729 | 0.669-0.789 |
| n-Propylbenzene | 15.78 | 10.59 | 1.490 | ok | 1.491 | 1.431-1.551 |
| Propylene | 1.87 | 3.61 | 0.518 | ok | 0.520 | 0.460-0.580 |
| Styrene | 12.70 | 10.59 | 1.199 | ok | 1.200 | 1.140-1.260 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 4.27 | 3.61 | 1.183 | ok | 1.185 | 1.125-1.245 |
| 1,1,1,2-Tetrachloroethane | 10.67 | 10.59 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.92 | 10.59 | 1.220 | ok | 1.221 | 1.161-1.281 |
| 1,1,2-Trichloroethane | 7.32 | 4.93 | 1.485 | ok | 1.486 | 1.426-1.546 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.59 | 1.746 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.21 | 10.59 | 1.247 | ok | 1.248 | 1.188-1.308 |
| 1,2,3-Trimethylbenzene | 17.15 | 10.59 | 1.619 | ok | 1.620 | 1.560-1.680 |
| 1,2,4-Trimethylbenzene | 16.76 | 10.59 | 1.583 | ok | 1.584 | 1.524-1.644 |
| 1,3,5-Trimethylbenzene | 16.30 | 10.59 | 1.539 | ok | 1.540 | 1.480-1.600 |
| 2,2,4-Trimethylpentane | 5.62 | 4.93 | 1.140 | ok | 1.139 | 1.079-1.199 |
| Tertiary Butyl Alcohol | 2.72 | 3.61 | 0.753 | ok | 0.753 | 0.693-0.813 |
| Tetrachloroethylene | 9.45 | 4.93 | 1.917 | ok | 1.917 | 1.857-1.977 |
| Tetrahydrofuran | 3.93 | 3.61 | 1.089 | ok | 1.083 | 1.023-1.143 |
| Toluene | 7.70 | 4.93 | 1.562 | ok | 1.562 | 1.502-1.622 |
| Trichloroethylene | 5.52 | 4.93 | 1.120 | ok | 1.119 | 1.059-1.179 |
| Trichlorofluoromethane | 2.52 | 3.61 | 0.698 | ok | 0.698 | 0.638-0.758 |
| Vinyl chloride | 2.03 | 3.61 | 0.562 | ok | 0.565 | 0.505-0.625 |
| Vinyl Acetate | 3.23 | 3.61 | 0.895 | ok | 0.895 | 0.835-0.955 |
| m,p-Xylene | 11.98 | 10.59 | 1.131 | ok | 1.132 | 1.072-1.192 |
| o-Xylene | 12.91 | 10.59 | 1.219 | ok | 1.220 | 1.160-1.280 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.61 | ok | 3.61 | 3.28-3.94 | 64903 | ok | 69048 | 41429-96667 |
| 1,4-Difluorobenzene | 4.93 | ok | 4.93 | 4.60-5.26 | 355487 | ok | 370656 | 222394-518918 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 317521 | ok | 336964 | 202178-471750 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.47 | 3.61 | 0.684 | ok | 0.682 | 0.622-0.742 |
| Acrolein | 2.41 | 3.61 | 0.668 | ok | 0.670 | 0.610-0.730 |
| Acrylonitrile | 2.60 | 3.61 | 0.720 | ok | 0.721 | 0.661-0.781 |
| Acetonitrile | 2.37 | 3.61 | 0.657 | ok | 0.657 | 0.597-0.717 |
| 1,3-Butadiene | 2.08 | 3.61 | 0.576 | ok | 0.578 | 0.518-0.638 |
| Benzene | 4.60 | 3.61 | 1.274 | ok | 1.274 | 1.214-1.334 |
| Bromobenzene | 14.30 | 10.59 | 1.350 | ok | 1.352 | 1.292-1.412 |
| Bromodichloromethane | 5.46 | 4.93 | 1.108 | ok | 1.108 | 1.048-1.168 |
| Bromoform | 11.79 | 10.59 | 1.113 | ok | 1.114 | 1.054-1.174 |
| Bromomethane | 2.19 | 3.61 | 0.607 | ok | 0.606 | 0.546-0.666 |
| Bromoethene | 2.38 | 3.61 | 0.659 | ok | 0.659 | 0.599-0.719 |
| n-Butane | 2.11 | 3.61 | 0.584 | ok | 0.584 | 0.524-0.644 |
| Benzyl Chloride | 16.85 | 10.59 | 1.591 | ok | 1.592 | 1.532-1.652 |
| n-Butylbenzene | 17.57 | 10.59 | 1.659 | ok | 1.660 | 1.600-1.720 |
| sec-Butylbenzene | 17.04 | 10.59 | 1.609 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.76 | 10.59 | 1.583 | ok | 1.583 | 1.523-1.643 |
| Carbon disulfide | 2.85 | 3.61 | 0.789 | ok | 0.787 | 0.727-0.847 |
| Chlorobenzene | 10.66 | 10.59 | 1.007 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.86 | 3.61 | 0.515 | ok | 0.517 | 0.457-0.577 |
| Chloroethane | 2.25 | 3.61 | 0.623 | ok | 0.623 | 0.563-0.683 |
| Chlorotrifluoroethene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Chloroform | 3.68 | 3.61 | 1.019 | ok | 1.021 | 0.961-1.081 |
| Chloromethane | 1.95 | 3.61 | 0.540 | ok | 0.542 | 0.482-0.602 |
| 3-Chloropropene | 2.79 | 3.61 | 0.773 | ok | 0.773 | 0.713-0.833 |
| 2-Chlorotoluene | 15.43 | 10.59 | 1.457 | ok | 1.459 | 1.399-1.519 |
| Carbon tetrachloride | 4.71 | 3.61 | 1.305 | ok | 1.305 | 1.245-1.365 |
| Cyclohexane | 4.81 | 4.93 | 0.976 | ok | 0.976 | 0.916-1.036 |
| 1,1-Dichloroethane | 3.15 | 3.61 | 0.873 | ok | 0.875 | 0.815-0.935 |
| 1,1-Dichloroethylene | 2.71 | 3.61 | 0.751 | ok | 0.751 | 0.691-0.811 |
| 1,2-Dibromoethane (EDB) | 8.58 | 4.93 | 1.740 | ok | 1.743 | 1.683-1.803 |
| 1,2-Dichloroethane | 4.11 | 3.61 | 1.139 | ok | 1.139 | 1.079-1.199 |
| 1,2-Dichloropropane | 5.28 | 4.93 | 1.071 | ok | 1.071 | 1.011-1.131 |
| 1,3-Dichloropropane | 7.75 | 4.93 | 1.572 | ok | 1.574 | 1.514-1.634 |
| 1,4-Dioxane | 5.58 | 4.93 | 1.132 | ok | 1.123 | 1.063-1.183 |
| Dichlorodifluoromethane | 1.90 | 3.61 | 0.526 | ok | 0.526 | 0.466-0.586 |
| Dichlorofluoromethane | 2.28 | 3.61 | 0.632 | ok | 0.633 | 0.573-0.693 |
| Dibromochloromethane | 8.23 | 4.93 | 1.669 | ok | 1.671 | 1.611-1.731 |
| Dibromomethane | 5.24 | 4.93 | 1.063 | ok | 1.063 | 1.003-1.123 |
| trans-1,2-Dichloroethylene | 3.08 | 3.61 | 0.853 | ok | 0.853 | 0.793-0.913 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.53 | 3.61 | 0.978 | ok | 0.978 | 0.918-1.038 |
| cis-1,3-Dichloropropene | 6.47 | 4.93 | 1.312 | ok | 1.313 | 1.253-1.373 |
| m-Dichlorobenzene | 16.83 | 10.59 | 1.589 | ok | 1.590 | 1.530-1.650 |
| o-Dichlorobenzene | 17.21 | 10.59 | 1.625 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.91 | 10.59 | 1.597 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.16 | 4.93 | 1.452 | ok | 1.452 | 1.392-1.512 |
| Di-Isopropyl ether | 3.67 | 3.61 | 1.017 | ok | 1.017 | 0.957-1.077 |
| 2,3-Dimethylpentane | 5.07 | 4.93 | 1.028 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.20 | 3.61 | 1.163 | ok | 1.162 | 1.102-1.222 |
| Ethanol | 2.29 | 3.61 | 0.634 | ok | 0.634 | 0.574-0.694 |
| Ethylbenzene | 11.55 | 10.59 | 1.091 | ok | 1.091 | 1.031-1.151 |
| Ethyl Acetate | 3.67 | 3.61 | 1.017 | ok | 1.018 | 0.958-1.078 |
| Ethyl Acrylate | 5.40 | 4.93 | 1.095 | ok | 1.095 | 1.035-1.155 |
| 4-Ethyltoluene | 16.14 | 10.59 | 1.524 | ok | 1.525 | 1.465-1.585 |
| Freon 113 | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 1.99 | 3.61 | 0.551 | ok | 0.553 | 0.493-0.613 |
| Freon 123 | 2.43 | 3.61 | 0.673 | ok | 0.674 | 0.614-0.734 |
| Freon 123A | 2.45 | 3.61 | 0.679 | ok | 0.679 | 0.619-0.739 |
| Freon 142B | 1.95 | 3.61 | 0.540 | ok | 0.540 | 0.480-0.600 |
| Freon 152A | 1.84 | 3.61 | 0.510 | ok | 0.512 | 0.452-0.572 |
| Heptane | 5.93 | 4.93 | 1.203 | ok | 1.204 | 1.144-1.264 |
| Hexachlorobutadiene | 18.80 | 10.59 | 1.775 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.75 | 10.59 | 1.676 | ok | 1.677 | 1.617-1.737 |
| Hexane | 3.66 | 3.61 | 1.014 | ok | 1.015 | 0.955-1.075 |
| 2-Hexanone | 8.29 | 4.93 | 1.682 | ok | 1.678 | 1.618-1.738 |
| Iodomethane | 2.69 | 3.61 | 0.745 | ok | 0.745 | 0.685-0.805 |
| Isopropylbenzene | 14.43 | 10.59 | 1.363 | ok | 1.364 | 1.304-1.424 |
| Isopropyl Alcohol | 2.53 | 3.61 | 0.701 | ok | 0.702 | 0.642-0.762 |
| p-Isopropyltoluene | 17.22 | 10.59 | 1.626 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.75 | 3.61 | 0.762 | ok | 0.762 | 0.702-0.822 |
| Methyl ethyl ketone | 3.34 | 3.61 | 0.925 | ok | 0.923 | 0.863-0.983 |
| Methyl Isobutyl Ketone | 6.58 | 4.93 | 1.335 | ok | 1.334 | 1.274-1.394 |
| Methyl Tert Butyl Ether | 3.19 | 3.61 | 0.884 | ok | 0.884 | 0.824-0.944 |
| Methylmethacrylate | 5.83 | 4.93 | 1.183 | ok | 1.182 | 1.122-1.242 |
| Naphthalene | 18.53 | 10.59 | 1.750 | ok | 1.751 | 1.691-1.811 |
| Nonane | 14.03 | 10.59 | 1.325 | ok | 1.326 | 1.266-1.386 |
| Octane | 9.60 | 4.93 | 1.947 | ok | 1.946 | 1.886-2.006 |
| Pentane | 2.63 | 3.61 | 0.729 | ok | 0.729 | 0.669-0.789 |
| n-Propylbenzene | 15.77 | 10.59 | 1.489 | ok | 1.491 | 1.431-1.551 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Styrene | 12.70 | 10.59 | 1.199 | ok | 1.200 | 1.140-1.260 |
| 1,1,1-Trichloroethane | 4.28 | 3.61 | 1.186 | ok | 1.185 | 1.125-1.245 |
| 1,1,1,2-Tetrachloroethane | 10.67 | 10.59 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.92 | 10.59 | 1.220 | ok | 1.221 | 1.161-1.281 |
| 1,1,2-Trichloroethane | 7.33 | 4.93 | 1.487 | ok | 1.486 | 1.426-1.546 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.59 | 1.746 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.22 | 10.59 | 1.248 | ok | 1.248 | 1.188-1.308 |
| 1,2,3-Trimethylbenzene | 17.15 | 10.59 | 1.619 | ok | 1.620 | 1.560-1.680 |
| 1,2,4-Trimethylbenzene | 16.77 | 10.59 | 1.584 | ok | 1.584 | 1.524-1.644 |
| 1,3,5-Trimethylbenzene | 16.30 | 10.59 | 1.539 | ok | 1.540 | 1.480-1.600 |
| 2,2,4-Trimethylpentane | 5.61 | 4.93 | 1.138 | ok | 1.139 | 1.079-1.199 |
| Tertiary Butyl Alcohol | 2.72 | 3.61 | 0.753 | ok | 0.753 | 0.693-0.813 |
| Tetrachloroethylene | 9.45 | 4.93 | 1.917 | ok | 1.917 | 1.857-1.977 |
| Tetrahydrofuran | 3.93 | 3.61 | 1.089 | ok | 1.083 | 1.023-1.143 |
| Toluene | 7.70 | 4.93 | 1.562 | ok | 1.562 | 1.502-1.622 |
| Trichloroethylene | 5.52 | 4.93 | 1.120 | ok | 1.119 | 1.059-1.179 |
| Trichlorofluoromethane | 2.52 | 3.61 | 0.698 | ok | 0.698 | 0.638-0.758 |
| Vinyl chloride | 2.04 | 3.61 | 0.565 | ok | 0.565 | 0.505-0.625 |
| Vinyl Acetate | 3.24 | 3.61 | 0.898 | ok | 0.895 | 0.835-0.955 |
| m,p-Xylene | 11.98 | 10.59 | 1.131 | ok | 1.132 | 1.072-1.192 |
| o-Xylene | 12.91 | 10.59 | 1.219 | ok | 1.220 | 1.160-1.280 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.61 | ok | 3.61 | 3.28-3.94 | 64509 | ok | 69048 | 41429-96667 |
| 1,4-Difluorobenzene | 4.93 | ok | 4.93 | 4.60-5.26 | 353558 | ok | 370656 | 222394-518918 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 315511 | ok | 336964 | 202178-471750 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.46 | 3.61 | 0.681 | ok | 0.682 | 0.622-0.742 |
| Acrolein | 2.43 | 3.61 | 0.673 | ok | 0.670 | 0.610-0.730 |
| Acrylonitrile | 2.60 | 3.61 | 0.720 | ok | 0.721 | 0.661-0.781 |
| Acetonitrile | 2.37 | 3.61 | 0.657 | ok | 0.657 | 0.597-0.717 |
| 1,3-Butadiene | 2.09 | 3.61 | 0.579 | ok | 0.578 | 0.518-0.638 |
| Benzene | 4.60 | 3.61 | 1.274 | ok | 1.274 | 1.214-1.334 |
| Bromobenzene | 14.31 | 10.58 | 1.353 | ok | 1.352 | 1.292-1.412 |
| Bromodichloromethane | 5.46 | 4.93 | 1.108 | ok | 1.108 | 1.048-1.168 |
| Bromoform | 11.79 | 10.58 | 1.114 | ok | 1.114 | 1.054-1.174 |
| Bromomethane | 2.19 | 3.61 | 0.607 | ok | 0.606 | 0.546-0.666 |
| Bromoethene | 2.38 | 3.61 | 0.659 | ok | 0.659 | 0.599-0.719 |
| n-Butane | 2.11 | 3.61 | 0.584 | ok | 0.584 | 0.524-0.644 |
| Benzyl Chloride | 16.85 | 10.58 | 1.593 | ok | 1.592 | 1.532-1.652 |
| n-Butylbenzene | 17.57 | 10.58 | 1.661 | ok | 1.660 | 1.600-1.720 |
| sec-Butylbenzene | 17.04 | 10.58 | 1.611 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.76 | 10.58 | 1.584 | ok | 1.583 | 1.523-1.643 |
| Carbon disulfide | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Chlorobenzene | 10.66 | 10.58 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.87 | 3.61 | 0.518 | ok | 0.517 | 0.457-0.577 |
| Chloroethane | 2.25 | 3.61 | 0.623 | ok | 0.623 | 0.563-0.683 |
| Chlorotrifluoroethene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Chloroform | 3.68 | 3.61 | 1.019 | ok | 1.021 | 0.961-1.081 |
| Chloromethane | 1.96 | 3.61 | 0.543 | ok | 0.542 | 0.482-0.602 |
| 3-Chloropropene | 2.79 | 3.61 | 0.773 | ok | 0.773 | 0.713-0.833 |
| 2-Chlorotoluene | 15.44 | 10.58 | 1.459 | ok | 1.459 | 1.399-1.519 |
| Carbon tetrachloride | 4.71 | 3.61 | 1.305 | ok | 1.305 | 1.245-1.365 |
| Cyclohexane | 4.81 | 4.93 | 0.976 | ok | 0.976 | 0.916-1.036 |
| 1,1-Dichloroethane | 3.16 | 3.61 | 0.875 | ok | 0.875 | 0.815-0.935 |
| 1,1-Dichloroethylene | 2.71 | 3.61 | 0.751 | ok | 0.751 | 0.691-0.811 |
| 1,2-Dibromoethane (EDB) | 8.59 | 4.93 | 1.742 | ok | 1.743 | 1.683-1.803 |
| 1,2-Dichloroethane | 4.11 | 3.61 | 1.139 | ok | 1.139 | 1.079-1.199 |
| 1,2-Dichloropropane | 5.28 | 4.93 | 1.071 | ok | 1.071 | 1.011-1.131 |
| 1,3-Dichloropropane | 7.75 | 4.93 | 1.572 | ok | 1.574 | 1.514-1.634 |
| 1,4-Dioxane | 5.55 | 4.93 | 1.126 | ok | 1.123 | 1.063-1.183 |
| Dichlorodifluoromethane | 1.90 | 3.61 | 0.526 | ok | 0.526 | 0.466-0.586 |
| Dichlorofluoromethane | 2.29 | 3.61 | 0.634 | ok | 0.633 | 0.573-0.693 |
| Dibromochloromethane | 8.23 | 4.93 | 1.669 | ok | 1.671 | 1.611-1.731 |
| Dibromomethane | 5.24 | 4.93 | 1.063 | ok | 1.063 | 1.003-1.123 |
| trans-1,2-Dichloroethylene | 3.08 | 3.61 | 0.853 | ok | 0.853 | 0.793-0.913 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.53 | 3.61 | 0.978 | ok | 0.978 | 0.918-1.038 |
| cis-1,3-Dichloropropene | 6.47 | 4.93 | 1.312 | ok | 1.313 | 1.253-1.373 |
| m-Dichlorobenzene | 16.83 | 10.58 | 1.591 | ok | 1.590 | 1.530-1.650 |
| o-Dichlorobenzene | 17.20 | 10.58 | 1.626 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.91 | 10.58 | 1.598 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.15 | 4.93 | 1.450 | ok | 1.452 | 1.392-1.512 |
| Di-Isopropyl ether | 3.67 | 3.61 | 1.017 | ok | 1.017 | 0.957-1.077 |
| 2,3-Dimethylpentane | 5.07 | 4.93 | 1.028 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.19 | 3.61 | 1.161 | ok | 1.162 | 1.102-1.222 |
| Ethanol | 2.29 | 3.61 | 0.634 | ok | 0.634 | 0.574-0.694 |
| Ethylbenzene | 11.54 | 10.58 | 1.091 | ok | 1.091 | 1.031-1.151 |
| Ethyl Acetate | 3.68 | 3.61 | 1.019 | ok | 1.018 | 0.958-1.078 |
| Ethyl Acrylate | 5.40 | 4.93 | 1.095 | ok | 1.095 | 1.035-1.155 |
| 4-Ethyltoluene | 16.14 | 10.58 | 1.526 | ok | 1.525 | 1.465-1.585 |
| Freon 113 | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 2.00 | 3.61 | 0.554 | ok | 0.553 | 0.493-0.613 |
| Freon 123 | 2.43 | 3.61 | 0.673 | ok | 0.674 | 0.614-0.734 |
| Freon 123A | 2.45 | 3.61 | 0.679 | ok | 0.679 | 0.619-0.739 |
| Freon 142B | 1.95 | 3.61 | 0.540 | ok | 0.540 | 0.480-0.600 |
| Freon 152A | 1.85 | 3.61 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Heptane | 5.93 | 4.93 | 1.203 | ok | 1.204 | 1.144-1.264 |
| Hexachlorobutadiene | 18.79 | 10.58 | 1.776 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.75 | 10.58 | 1.678 | ok | 1.677 | 1.617-1.737 |
| Hexane | 3.67 | 3.61 | 1.017 | ok | 1.015 | 0.955-1.075 |
| 2-Hexanone | 8.29 | 4.93 | 1.682 | ok | 1.678 | 1.618-1.738 |
| Iodomethane | 2.69 | 3.61 | 0.745 | ok | 0.745 | 0.685-0.805 |
| Isopropylbenzene | 14.43 | 10.58 | 1.364 | ok | 1.364 | 1.304-1.424 |
| Isopropyl Alcohol | 2.54 | 3.61 | 0.704 | ok | 0.702 | 0.642-0.762 |
| p-Isopropyltoluene | 17.22 | 10.58 | 1.628 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.75 | 3.61 | 0.762 | ok | 0.762 | 0.702-0.822 |
| Methyl ethyl ketone | 3.34 | 3.61 | 0.925 | ok | 0.923 | 0.863-0.983 |
| Methyl Isobutyl Ketone | 6.58 | 4.93 | 1.335 | ok | 1.334 | 1.274-1.394 |
| Methyl Tert Butyl Ether | 3.19 | 3.61 | 0.884 | ok | 0.884 | 0.824-0.944 |
| Methylmethacrylate | 5.83 | 4.93 | 1.183 | ok | 1.182 | 1.122-1.242 |
| Naphthalene | 18.53 | 10.58 | 1.751 | ok | 1.751 | 1.691-1.811 |
| Nonane | 14.02 | 10.58 | 1.325 | ok | 1.326 | 1.266-1.386 |
| Octane | 9.59 | 4.93 | 1.945 | ok | 1.946 | 1.886-2.006 |
| Pentane | 2.63 | 3.61 | 0.729 | ok | 0.729 | 0.669-0.789 |
| n-Propylbenzene | 15.78 | 10.58 | 1.491 | ok | 1.491 | 1.431-1.551 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Styrene | 12.69 | 10.58 | 1.199 | ok | 1.200 | 1.140-1.260 |
| 1,1,1-Trichloroethane | 4.27 | 3.61 | 1.183 | ok | 1.185 | 1.125-1.245 |
| 1,1,1,2-Tetrachloroethane | 10.68 | 10.58 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.92 | 10.58 | 1.221 | ok | 1.221 | 1.161-1.281 |
| 1,1,2-Trichloroethane | 7.32 | 4.93 | 1.485 | ok | 1.486 | 1.426-1.546 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.58 | 1.748 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.20 | 10.58 | 1.248 | ok | 1.248 | 1.188-1.308 |
| 1,2,3-Trimethylbenzene | 17.15 | 10.58 | 1.621 | ok | 1.620 | 1.560-1.680 |
| 1,2,4-Trimethylbenzene | 16.77 | 10.58 | 1.585 | ok | 1.584 | 1.524-1.644 |
| 1,3,5-Trimethylbenzene | 16.30 | 10.58 | 1.541 | ok | 1.540 | 1.480-1.600 |
| 2,2,4-Trimethylpentane | 5.61 | 4.93 | 1.138 | ok | 1.139 | 1.079-1.199 |
| Tertiary Butyl Alcohol | 2.72 | 3.61 | 0.753 | ok | 0.753 | 0.693-0.813 |
| Tetrachloroethylene | 9.44 | 4.93 | 1.915 | ok | 1.917 | 1.857-1.977 |
| Tetrahydrofuran | 3.92 | 3.61 | 1.086 | ok | 1.083 | 1.023-1.143 |
| Toluene | 7.70 | 4.93 | 1.562 | ok | 1.562 | 1.502-1.622 |
| Trichloroethylene | 5.52 | 4.93 | 1.120 | ok | 1.119 | 1.059-1.179 |
| Trichlorofluoromethane | 2.52 | 3.61 | 0.698 | ok | 0.698 | 0.638-0.758 |
| Vinyl chloride | 2.04 | 3.61 | 0.565 | ok | 0.565 | 0.505-0.625 |
| Vinyl Acetate | 3.23 | 3.61 | 0.895 | ok | 0.895 | 0.835-0.955 |
| m,p-Xylene | 11.97 | 10.58 | 1.131 | ok | 1.132 | 1.072-1.192 |
| o-Xylene | 12.91 | 10.58 | 1.220 | ok | 1.220 | 1.160-1.280 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.61 | ok | 3.61 | 3.28-3.94 | 64185 | ok | 69048 | 41429-96667 |
| 1,4-Difluorobenzene | 4.93 | ok | 4.93 | 4.60-5.26 | 349033 | ok | 370656 | 222394-518918 |
| Chlorobenzene-D5 | 10.58 | ok | 10.59 | 10.26-10.92 | 311657 | ok | 336964 | 202178-471750 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.46 | 3.61 | 0.681 | ok | 0.682 | 0.622-0.742 |
| Acrolein | 2.42 | 3.61 | 0.670 | ok | 0.670 | 0.610-0.730 |
| Acrylonitrile | 2.60 | 3.61 | 0.720 | ok | 0.721 | 0.661-0.781 |
| Acetonitrile | 2.37 | 3.61 | 0.657 | ok | 0.657 | 0.597-0.717 |
| 1,3-Butadiene | 2.09 | 3.61 | 0.579 | ok | 0.578 | 0.518-0.638 |
| Benzene | 4.60 | 3.61 | 1.274 | ok | 1.274 | 1.214-1.334 |
| Bromobenzene | 14.31 | 10.58 | 1.353 | ok | 1.352 | 1.292-1.412 |
| Bromodichloromethane | 5.46 | 4.93 | 1.108 | ok | 1.108 | 1.048-1.168 |
| Bromoform | 11.79 | 10.58 | 1.114 | ok | 1.114 | 1.054-1.174 |
| Bromomethane | 2.19 | 3.61 | 0.607 | ok | 0.606 | 0.546-0.666 |
| Bromoethene | 2.38 | 3.61 | 0.659 | ok | 0.659 | 0.599-0.719 |
| n-Butane | 2.11 | 3.61 | 0.584 | ok | 0.584 | 0.524-0.644 |
| Benzyl Chloride | 16.85 | 10.58 | 1.593 | ok | 1.592 | 1.532-1.652 |
| n-Butylbenzene | 17.57 | 10.58 | 1.661 | ok | 1.660 | 1.600-1.720 |
| sec-Butylbenzene | 17.04 | 10.58 | 1.611 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.76 | 10.58 | 1.584 | ok | 1.583 | 1.523-1.643 |
| Carbon disulfide | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Chlorobenzene | 10.66 | 10.58 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.86 | 3.61 | 0.515 | ok | 0.517 | 0.457-0.577 |
| Chloroethane | 2.25 | 3.61 | 0.623 | ok | 0.623 | 0.563-0.683 |
| Chlorotrifluoroethene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Chloroform | 3.69 | 3.61 | 1.022 | ok | 1.021 | 0.961-1.081 |
| Chloromethane | 1.96 | 3.61 | 0.543 | ok | 0.542 | 0.482-0.602 |
| 3-Chloropropene | 2.79 | 3.61 | 0.773 | ok | 0.773 | 0.713-0.833 |
| 2-Chlorotoluene | 15.44 | 10.58 | 1.459 | ok | 1.459 | 1.399-1.519 |
| Carbon tetrachloride | 4.71 | 3.61 | 1.305 | ok | 1.305 | 1.245-1.365 |
| Cyclohexane | 4.81 | 4.93 | 0.976 | ok | 0.976 | 0.916-1.036 |
| 1,1-Dichloroethane | 3.15 | 3.61 | 0.873 | ok | 0.875 | 0.815-0.935 |
| 1,1-Dichloroethylene | 2.71 | 3.61 | 0.751 | ok | 0.751 | 0.691-0.811 |
| 1,2-Dibromoethane (EDB) | 8.59 | 4.93 | 1.742 | ok | 1.743 | 1.683-1.803 |
| 1,2-Dichloroethane | 4.11 | 3.61 | 1.139 | ok | 1.139 | 1.079-1.199 |
| 1,2-Dichloropropane | 5.28 | 4.93 | 1.071 | ok | 1.071 | 1.011-1.131 |
| 1,3-Dichloropropane | 7.76 | 4.93 | 1.574 | ok | 1.574 | 1.514-1.634 |
| 1,4-Dioxane | 5.53 | 4.93 | 1.122 | ok | 1.123 | 1.063-1.183 |
| Dichlorodifluoromethane | 1.90 | 3.61 | 0.526 | ok | 0.526 | 0.466-0.586 |
| Dichlorofluoromethane | 2.29 | 3.61 | 0.634 | ok | 0.633 | 0.573-0.693 |
| Dibromochloromethane | 8.24 | 4.93 | 1.671 | ok | 1.671 | 1.611-1.731 |
| Dibromomethane | 5.24 | 4.93 | 1.063 | ok | 1.063 | 1.003-1.123 |
| trans-1,2-Dichloroethylene | 3.08 | 3.61 | 0.853 | ok | 0.853 | 0.793-0.913 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.53 | 3.61 | 0.978 | ok | 0.978 | 0.918-1.038 |
| cis-1,3-Dichloropropene | 6.47 | 4.93 | 1.312 | ok | 1.313 | 1.253-1.373 |
| m-Dichlorobenzene | 16.83 | 10.58 | 1.591 | ok | 1.590 | 1.530-1.650 |
| o-Dichlorobenzene | 17.21 | 10.58 | 1.627 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.91 | 10.58 | 1.598 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.16 | 4.93 | 1.452 | ok | 1.452 | 1.392-1.512 |
| Di-Isopropyl ether | 3.67 | 3.61 | 1.017 | ok | 1.017 | 0.957-1.077 |
| 2,3-Dimethylpentane | 5.07 | 4.93 | 1.028 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.19 | 3.61 | 1.161 | ok | 1.162 | 1.102-1.222 |
| Ethanol | 2.29 | 3.61 | 0.634 | ok | 0.634 | 0.574-0.694 |
| Ethylbenzene | 11.55 | 10.58 | 1.092 | ok | 1.091 | 1.031-1.151 |
| Ethyl Acetate | 3.67 | 3.61 | 1.017 | ok | 1.018 | 0.958-1.078 |
| Ethyl Acrylate | 5.39 | 4.93 | 1.093 | ok | 1.095 | 1.035-1.155 |
| 4-Ethyltoluene | 16.14 | 10.58 | 1.526 | ok | 1.525 | 1.465-1.585 |
| Freon 113 | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 2.00 | 3.61 | 0.554 | ok | 0.553 | 0.493-0.613 |
| Freon 123 | 2.43 | 3.61 | 0.673 | ok | 0.674 | 0.614-0.734 |
| Freon 123A | 2.45 | 3.61 | 0.679 | ok | 0.679 | 0.619-0.739 |
| Freon 142B | 1.95 | 3.61 | 0.540 | ok | 0.540 | 0.480-0.600 |
| Freon 152A | 1.85 | 3.61 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Heptane | 5.93 | 4.93 | 1.203 | ok | 1.204 | 1.144-1.264 |
| Hexachlorobutadiene | 18.80 | 10.58 | 1.777 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.75 | 10.58 | 1.678 | ok | 1.677 | 1.617-1.737 |
| Hexane | 3.66 | 3.61 | 1.014 | ok | 1.015 | 0.955-1.075 |
| 2-Hexanone | 8.26 | 4.93 | 1.675 | ok | 1.678 | 1.618-1.738 |
| Iodomethane | 2.69 | 3.61 | 0.745 | ok | 0.745 | 0.685-0.805 |
| Isopropylbenzene | 14.43 | 10.58 | 1.364 | ok | 1.364 | 1.304-1.424 |
| Isopropyl Alcohol | 2.53 | 3.61 | 0.701 | ok | 0.702 | 0.642-0.762 |
| p-Isopropyltoluene | 17.22 | 10.58 | 1.628 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.75 | 3.61 | 0.762 | ok | 0.762 | 0.702-0.822 |
| Methyl ethyl ketone | 3.33 | 3.61 | 0.922 | ok | 0.923 | 0.863-0.983 |
| Methyl Isobutyl Ketone | 6.57 | 4.93 | 1.333 | ok | 1.334 | 1.274-1.394 |
| Methyl Tert Butyl Ether | 3.19 | 3.61 | 0.884 | ok | 0.884 | 0.824-0.944 |
| Methylmethacrylate | 5.82 | 4.93 | 1.181 | ok | 1.182 | 1.122-1.242 |
| Naphthalene | 18.53 | 10.58 | 1.751 | ok | 1.751 | 1.691-1.811 |
| Nonane | 14.03 | 10.58 | 1.326 | ok | 1.326 | 1.266-1.386 |
| Octane | 9.59 | 4.93 | 1.945 | ok | 1.946 | 1.886-2.006 |
| Pentane | 2.63 | 3.61 | 0.729 | ok | 0.729 | 0.669-0.789 |
| n-Propylbenzene | 15.77 | 10.58 | 1.491 | ok | 1.491 | 1.431-1.551 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Styrene | 12.70 | 10.58 | 1.200 | ok | 1.200 | 1.140-1.260 |
| 1,1,1-Trichloroethane | 4.27 | 3.61 | 1.183 | ok | 1.185 | 1.125-1.245 |
| 1,1,1,2-Tetrachloroethane | 10.67 | 10.58 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.92 | 10.58 | 1.221 | ok | 1.221 | 1.161-1.281 |
| 1,1,2-Trichloroethane | 7.32 | 4.93 | 1.485 | ok | 1.486 | 1.426-1.546 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.58 | 1.748 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.21 | 10.58 | 1.249 | ok | 1.248 | 1.188-1.308 |
| 1,2,3-Trimethylbenzene | 17.15 | 10.58 | 1.621 | ok | 1.620 | 1.560-1.680 |
| 1,2,4-Trimethylbenzene | 16.77 | 10.58 | 1.585 | ok | 1.584 | 1.524-1.644 |
| 1,3,5-Trimethylbenzene | 16.30 | 10.58 | 1.541 | ok | 1.540 | 1.480-1.600 |
| 2,2,4-Trimethylpentane | 5.61 | 4.93 | 1.138 | ok | 1.139 | 1.079-1.199 |
| Tertiary Butyl Alcohol | 2.72 | 3.61 | 0.753 | ok | 0.753 | 0.693-0.813 |
| Tetrachloroethylene | 9.45 | 4.93 | 1.917 | ok | 1.917 | 1.857-1.977 |
| Tetrahydrofuran | 3.90 | 3.61 | 1.080 | ok | 1.083 | 1.023-1.143 |
| Toluene | 7.69 | 4.93 | 1.560 | ok | 1.562 | 1.502-1.622 |
| Trichloroethylene | 5.51 | 4.93 | 1.118 | ok | 1.119 | 1.059-1.179 |
| Trichlorofluoromethane | 2.52 | 3.61 | 0.698 | ok | 0.698 | 0.638-0.758 |
| Vinyl chloride | 2.04 | 3.61 | 0.565 | ok | 0.565 | 0.505-0.625 |
| Vinyl Acetate | 3.23 | 3.61 | 0.895 | ok | 0.895 | 0.835-0.955 |
| m,p-Xylene | 11.98 | 10.58 | 1.132 | ok | 1.132 | 1.072-1.192 |
| o-Xylene | 12.91 | 10.58 | 1.220 | ok | 1.220 | 1.160-1.280 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.61 | ok | 3.61 | 3.28-3.94 | 68904 | ok | 69048 | 41429-96667 |
| 1,4-Difluorobenzene | 4.93 | ok | 4.93 | 4.60-5.26 | 372933 | ok | 370656 | 222394-518918 |
| Chlorobenzene-D5 | 10.58 | ok | 10.59 | 10.26-10.92 | 337350 | ok | 336964 | 202178-471750 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.46 | 3.61 | 0.681 | ok | 0.682 | 0.622-0.742 |
| Acrolein | 2.42 | 3.61 | 0.670 | ok | 0.670 | 0.610-0.730 |
| Acrylonitrile | 2.60 | 3.61 | 0.720 | ok | 0.721 | 0.661-0.781 |
| Acetonitrile | 2.37 | 3.61 | 0.657 | ok | 0.657 | 0.597-0.717 |
| 1,3-Butadiene | 2.09 | 3.61 | 0.579 | ok | 0.578 | 0.518-0.638 |
| Benzene | 4.60 | 3.61 | 1.274 | ok | 1.274 | 1.214-1.334 |
| Bromobenzene | 14.31 | 10.58 | 1.353 | ok | 1.352 | 1.292-1.412 |
| Bromodichloromethane | 5.46 | 4.93 | 1.108 | ok | 1.108 | 1.048-1.168 |
| Bromoform | 11.79 | 10.58 | 1.114 | ok | 1.114 | 1.054-1.174 |
| Bromomethane | 2.19 | 3.61 | 0.607 | ok | 0.606 | 0.546-0.666 |
| Bromoethene | 2.38 | 3.61 | 0.659 | ok | 0.659 | 0.599-0.719 |
| n-Butane | 2.11 | 3.61 | 0.584 | ok | 0.584 | 0.524-0.644 |
| Benzyl Chloride | 16.85 | 10.58 | 1.593 | ok | 1.592 | 1.532-1.652 |
| n-Butylbenzene | 17.57 | 10.58 | 1.661 | ok | 1.660 | 1.600-1.720 |
| sec-Butylbenzene | 17.04 | 10.58 | 1.611 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.76 | 10.58 | 1.584 | ok | 1.583 | 1.523-1.643 |
| Carbon disulfide | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Chlorobenzene | 10.66 | 10.58 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.87 | 3.61 | 0.518 | ok | 0.517 | 0.457-0.577 |
| Chloroethane | 2.25 | 3.61 | 0.623 | ok | 0.623 | 0.563-0.683 |
| Chlorotrifluoroethene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Chloroform | 3.69 | 3.61 | 1.022 | ok | 1.021 | 0.961-1.081 |
| Chloromethane | 1.96 | 3.61 | 0.543 | ok | 0.542 | 0.482-0.602 |
| 3-Chloropropene | 2.79 | 3.61 | 0.773 | ok | 0.773 | 0.713-0.833 |
| 2-Chlorotoluene | 15.44 | 10.58 | 1.459 | ok | 1.459 | 1.399-1.519 |
| Carbon tetrachloride | 4.71 | 3.61 | 1.305 | ok | 1.305 | 1.245-1.365 |
| Cyclohexane | 4.81 | 4.93 | 0.976 | ok | 0.976 | 0.916-1.036 |
| 1,1-Dichloroethane | 3.16 | 3.61 | 0.875 | ok | 0.875 | 0.815-0.935 |
| 1,1-Dichloroethylene | 2.71 | 3.61 | 0.751 | ok | 0.751 | 0.691-0.811 |
| 1,2-Dibromoethane (EDB) | 8.59 | 4.93 | 1.742 | ok | 1.743 | 1.683-1.803 |
| 1,2-Dichloroethane | 4.11 | 3.61 | 1.139 | ok | 1.139 | 1.079-1.199 |
| 1,2-Dichloropropane | 5.28 | 4.93 | 1.071 | ok | 1.071 | 1.011-1.131 |
| 1,3-Dichloropropane | 7.76 | 4.93 | 1.574 | ok | 1.574 | 1.514-1.634 |
| 1,4-Dioxane | 5.52 | 4.93 | 1.120 | ok | 1.123 | 1.063-1.183 |
| Dichlorodifluoromethane | 1.90 | 3.61 | 0.526 | ok | 0.526 | 0.466-0.586 |
| Dichlorofluoromethane | 2.29 | 3.61 | 0.634 | ok | 0.633 | 0.573-0.693 |
| Dibromochloromethane | 8.24 | 4.93 | 1.671 | ok | 1.671 | 1.611-1.731 |
| Dibromomethane | 5.24 | 4.93 | 1.063 | ok | 1.063 | 1.003-1.123 |
| trans-1,2-Dichloroethylene | 3.08 | 3.61 | 0.853 | ok | 0.853 | 0.793-0.913 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.53 | 3.61 | 0.978 | ok | 0.978 | 0.918-1.038 |
| cis-1,3-Dichloropropene | 6.47 | 4.93 | 1.312 | ok | 1.313 | 1.253-1.373 |
| m-Dichlorobenzene | 16.83 | 10.58 | 1.591 | ok | 1.590 | 1.530-1.650 |
| o-Dichlorobenzene | 17.21 | 10.58 | 1.627 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.91 | 10.58 | 1.598 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.16 | 4.93 | 1.452 | ok | 1.452 | 1.392-1.512 |
| Di-Isopropyl ether | 3.67 | 3.61 | 1.017 | ok | 1.017 | 0.957-1.077 |
| 2,3-Dimethylpentane | 5.07 | 4.93 | 1.028 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.20 | 3.61 | 1.163 | ok | 1.162 | 1.102-1.222 |
| Ethanol | 2.29 | 3.61 | 0.634 | ok | 0.634 | 0.574-0.694 |
| Ethylbenzene | 11.55 | 10.58 | 1.092 | ok | 1.091 | 1.031-1.151 |
| Ethyl Acetate | 3.67 | 3.61 | 1.017 | ok | 1.018 | 0.958-1.078 |
| Ethyl Acrylate | 5.39 | 4.93 | 1.093 | ok | 1.095 | 1.035-1.155 |
| 4-Ethyltoluene | 16.15 | 10.58 | 1.526 | ok | 1.525 | 1.465-1.585 |
| Freon 113 | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 2.00 | 3.61 | 0.554 | ok | 0.553 | 0.493-0.613 |
| Freon 123 | 2.43 | 3.61 | 0.673 | ok | 0.674 | 0.614-0.734 |
| Freon 123A | 2.45 | 3.61 | 0.679 | ok | 0.679 | 0.619-0.739 |
| Freon 142B | 1.95 | 3.61 | 0.540 | ok | 0.540 | 0.480-0.600 |
| Freon 152A | 1.85 | 3.61 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Heptane | 5.93 | 4.93 | 1.203 | ok | 1.204 | 1.144-1.264 |
| Hexachlorobutadiene | 18.79 | 10.58 | 1.776 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.75 | 10.58 | 1.678 | ok | 1.677 | 1.617-1.737 |
| Hexane | 3.66 | 3.61 | 1.014 | ok | 1.015 | 0.955-1.075 |
| 2-Hexanone | 8.26 | 4.93 | 1.675 | ok | 1.678 | 1.618-1.738 |
| Iodomethane | 2.69 | 3.61 | 0.745 | ok | 0.745 | 0.685-0.805 |
| Isopropylbenzene | 14.44 | 10.58 | 1.365 | ok | 1.364 | 1.304-1.424 |
| Isopropyl Alcohol | 2.53 | 3.61 | 0.701 | ok | 0.702 | 0.642-0.762 |
| p-Isopropyltoluene | 17.22 | 10.58 | 1.628 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.75 | 3.61 | 0.762 | ok | 0.762 | 0.702-0.822 |
| Methyl ethyl ketone | 3.33 | 3.61 | 0.922 | ok | 0.923 | 0.863-0.983 |
| Methyl Isobutyl Ketone | 6.57 | 4.93 | 1.333 | ok | 1.334 | 1.274-1.394 |
| Methyl Tert Butyl Ether | 3.19 | 3.61 | 0.884 | ok | 0.884 | 0.824-0.944 |
| Methylmethacrylate | 5.82 | 4.93 | 1.181 | ok | 1.182 | 1.122-1.242 |
| Naphthalene | 18.53 | 10.58 | 1.751 | ok | 1.751 | 1.691-1.811 |
| Nonane | 14.03 | 10.58 | 1.326 | ok | 1.326 | 1.266-1.386 |
| Octane | 9.59 | 4.93 | 1.945 | ok | 1.946 | 1.886-2.006 |
| Pentane | 2.63 | 3.61 | 0.729 | ok | 0.729 | 0.669-0.789 |
| n-Propylbenzene | 15.78 | 10.58 | 1.491 | ok | 1.491 | 1.431-1.551 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Styrene | 12.70 | 10.58 | 1.200 | ok | 1.200 | 1.140-1.260 |
| 1,1,1-Trichloroethane | 4.28 | 3.61 | 1.186 | ok | 1.185 | 1.125-1.245 |
| 1,1,1,2-Tetrachloroethane | 10.68 | 10.58 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.93 | 10.58 | 1.222 | ok | 1.221 | 1.161-1.281 |
| 1,1,2-Trichloroethane | 7.32 | 4.93 | 1.485 | ok | 1.486 | 1.426-1.546 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.58 | 1.748 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.21 | 10.58 | 1.249 | ok | 1.248 | 1.188-1.308 |
| 1,2,3-Trimethylbenzene | 17.15 | 10.58 | 1.621 | ok | 1.620 | 1.560-1.680 |
| 1,2,4-Trimethylbenzene | 16.77 | 10.58 | 1.585 | ok | 1.584 | 1.524-1.644 |
| 1,3,5-Trimethylbenzene | 16.30 | 10.58 | 1.541 | ok | 1.540 | 1.480-1.600 |
| 2,2,4-Trimethylpentane | 5.61 | 4.93 | 1.138 | ok | 1.139 | 1.079-1.199 |
| Tertiary Butyl Alcohol | 2.72 | 3.61 | 0.753 | ok | 0.753 | 0.693-0.813 |
| Tetrachloroethylene | 9.45 | 4.93 | 1.917 | ok | 1.917 | 1.857-1.977 |
| Tetrahydrofuran | 3.90 | 3.61 | 1.080 | ok | 1.083 | 1.023-1.143 |
| Toluene | 7.70 | 4.93 | 1.562 | ok | 1.562 | 1.502-1.622 |
| Trichloroethylene | 5.52 | 4.93 | 1.120 | ok | 1.119 | 1.059-1.179 |
| Trichlorofluoromethane | 2.52 | 3.61 | 0.698 | ok | 0.698 | 0.638-0.758 |
| Vinyl chloride | 2.04 | 3.61 | 0.565 | ok | 0.565 | 0.505-0.625 |
| Vinyl Acetate | 3.23 | 3.61 | 0.895 | ok | 0.895 | 0.835-0.955 |
| m,p-Xylene | 11.98 | 10.58 | 1.132 | ok | 1.132 | 1.072-1.192 |
| o-Xylene | 12.92 | 10.58 | 1.221 | ok | 1.220 | 1.160-1.280 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.61 | ok | 3.61 | 3.28-3.94 | 68573 | ok | 69048 | 41429-96667 |
| 1,4-Difluorobenzene | 4.93 | ok | 4.93 | 4.60-5.26 | 368687 | ok | 370656 | 222394-518918 |
| Chlorobenzene-D5 | 10.58 | ok | 10.59 | 10.26-10.92 | 341921 | ok | 336964 | 202178-471750 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.46 | 3.61 | 0.681 | ok | 0.682 | 0.622-0.742 |
| Acrolein | 2.42 | 3.61 | 0.670 | ok | 0.670 | 0.610-0.730 |
| Acrylonitrile | 2.60 | 3.61 | 0.720 | ok | 0.721 | 0.661-0.781 |
| Acetonitrile | 2.37 | 3.61 | 0.657 | ok | 0.657 | 0.597-0.717 |
| 1,3-Butadiene | 2.09 | 3.61 | 0.579 | ok | 0.578 | 0.518-0.638 |
| Benzene | 4.60 | 3.61 | 1.274 | ok | 1.274 | 1.214-1.334 |
| Bromobenzene | 14.31 | 10.59 | 1.351 | ok | 1.352 | 1.292-1.412 |
| Bromodichloromethane | 5.46 | 4.93 | 1.108 | ok | 1.108 | 1.048-1.168 |
| Bromoform | 11.80 | 10.59 | 1.114 | ok | 1.114 | 1.054-1.174 |
| Bromomethane | 2.19 | 3.61 | 0.607 | ok | 0.606 | 0.546-0.666 |
| Bromoethene | 2.38 | 3.61 | 0.659 | ok | 0.659 | 0.599-0.719 |
| n-Butane | 2.11 | 3.61 | 0.584 | ok | 0.584 | 0.524-0.644 |
| Benzyl Chloride | 16.85 | 10.59 | 1.591 | ok | 1.592 | 1.532-1.652 |
| n-Butylbenzene | 17.57 | 10.59 | 1.659 | ok | 1.660 | 1.600-1.720 |
| sec-Butylbenzene | 17.04 | 10.59 | 1.609 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.77 | 10.59 | 1.584 | ok | 1.583 | 1.523-1.643 |
| Carbon disulfide | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Chlorobenzene | 10.67 | 10.59 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.87 | 3.61 | 0.518 | ok | 0.517 | 0.457-0.577 |
| Chloroethane | 2.25 | 3.61 | 0.623 | ok | 0.623 | 0.563-0.683 |
| Chlorotrifluoroethene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Chloroform | 3.69 | 3.61 | 1.022 | ok | 1.021 | 0.961-1.081 |
| Chloromethane | 1.96 | 3.61 | 0.543 | ok | 0.542 | 0.482-0.602 |
| 3-Chloropropene | 2.79 | 3.61 | 0.773 | ok | 0.773 | 0.713-0.833 |
| 2-Chlorotoluene | 15.45 | 10.59 | 1.459 | ok | 1.459 | 1.399-1.519 |
| Carbon tetrachloride | 4.71 | 3.61 | 1.305 | ok | 1.305 | 1.245-1.365 |
| Cyclohexane | 4.81 | 4.93 | 0.976 | ok | 0.976 | 0.916-1.036 |
| 1,1-Dichloroethane | 3.16 | 3.61 | 0.875 | ok | 0.875 | 0.815-0.935 |
| 1,1-Dichloroethylene | 2.71 | 3.61 | 0.751 | ok | 0.751 | 0.691-0.811 |
| 1,2-Dibromoethane (EDB) | 8.59 | 4.93 | 1.742 | ok | 1.743 | 1.683-1.803 |
| 1,2-Dichloroethane | 4.11 | 3.61 | 1.139 | ok | 1.139 | 1.079-1.199 |
| 1,2-Dichloropropane | 5.28 | 4.93 | 1.071 | ok | 1.071 | 1.011-1.131 |
| 1,3-Dichloropropane | 7.76 | 4.93 | 1.574 | ok | 1.574 | 1.514-1.634 |
| 1,4-Dioxane | 5.52 | 4.93 | 1.120 | ok | 1.123 | 1.063-1.183 |
| Dichlorodifluoromethane | 1.90 | 3.61 | 0.526 | ok | 0.526 | 0.466-0.586 |
| Dichlorofluoromethane | 2.29 | 3.61 | 0.634 | ok | 0.633 | 0.573-0.693 |
| Dibromochloromethane | 8.24 | 4.93 | 1.671 | ok | 1.671 | 1.611-1.731 |
| Dibromomethane | 5.24 | 4.93 | 1.063 | ok | 1.063 | 1.003-1.123 |
| trans-1,2-Dichloroethylene | 3.08 | 3.61 | 0.853 | ok | 0.853 | 0.793-0.913 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.53 | 3.61 | 0.978 | ok | 0.978 | 0.918-1.038 |
| cis-1,3-Dichloropropene | 6.47 | 4.93 | 1.312 | ok | 1.313 | 1.253-1.373 |
| m-Dichlorobenzene | 16.83 | 10.59 | 1.589 | ok | 1.590 | 1.530-1.650 |
| o-Dichlorobenzene | 17.21 | 10.59 | 1.625 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.91 | 10.59 | 1.597 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.16 | 4.93 | 1.452 | ok | 1.452 | 1.392-1.512 |
| Di-Isopropyl ether | 3.67 | 3.61 | 1.017 | ok | 1.017 | 0.957-1.077 |
| 2,3-Dimethylpentane | 5.07 | 4.93 | 1.028 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.19 | 3.61 | 1.161 | ok | 1.162 | 1.102-1.222 |
| Ethanol | 2.29 | 3.61 | 0.634 | ok | 0.634 | 0.574-0.694 |
| Ethylbenzene | 11.55 | 10.59 | 1.091 | ok | 1.091 | 1.031-1.151 |
| Ethyl Acetate | 3.67 | 3.61 | 1.017 | ok | 1.018 | 0.958-1.078 |
| Ethyl Acrylate | 5.40 | 4.93 | 1.095 | ok | 1.095 | 1.035-1.155 |
| 4-Ethyltoluene | 16.15 | 10.59 | 1.525 | ok | 1.525 | 1.465-1.585 |
| Freon 113 | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 2.00 | 3.61 | 0.554 | ok | 0.553 | 0.493-0.613 |
| Freon 123 | 2.43 | 3.61 | 0.673 | ok | 0.674 | 0.614-0.734 |
| Freon 123A | 2.45 | 3.61 | 0.679 | ok | 0.679 | 0.619-0.739 |
| Freon 142B | 1.95 | 3.61 | 0.540 | ok | 0.540 | 0.480-0.600 |
| Freon 152A | 1.85 | 3.61 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Heptane | 5.94 | 4.93 | 1.205 | ok | 1.204 | 1.144-1.264 |
| Hexachlorobutadiene | 18.79 | 10.59 | 1.774 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.75 | 10.59 | 1.676 | ok | 1.677 | 1.617-1.737 |
| Hexane | 3.66 | 3.61 | 1.014 | ok | 1.015 | 0.955-1.075 |
| 2-Hexanone | 8.26 | 4.93 | 1.675 | ok | 1.678 | 1.618-1.738 |
| Iodomethane | 2.69 | 3.61 | 0.745 | ok | 0.745 | 0.685-0.805 |
| Isopropylbenzene | 14.44 | 10.59 | 1.364 | ok | 1.364 | 1.304-1.424 |
| Isopropyl Alcohol | 2.53 | 3.61 | 0.701 | ok | 0.702 | 0.642-0.762 |
| p-Isopropyltoluene | 17.22 | 10.59 | 1.626 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.75 | 3.61 | 0.762 | ok | 0.762 | 0.702-0.822 |
| Methyl ethyl ketone | 3.33 | 3.61 | 0.922 | ok | 0.923 | 0.863-0.983 |
| Methyl Isobutyl Ketone | 6.57 | 4.93 | 1.333 | ok | 1.334 | 1.274-1.394 |
| Methyl Tert Butyl Ether | 3.19 | 3.61 | 0.884 | ok | 0.884 | 0.824-0.944 |
| Methylmethacrylate | 5.83 | 4.93 | 1.183 | ok | 1.182 | 1.122-1.242 |
| Naphthalene | 18.53 | 10.59 | 1.750 | ok | 1.751 | 1.691-1.811 |
| Nonane | 14.04 | 10.59 | 1.326 | ok | 1.326 | 1.266-1.386 |
| Octane | 9.59 | 4.93 | 1.945 | ok | 1.946 | 1.886-2.006 |
| Pentane | 2.63 | 3.61 | 0.729 | ok | 0.729 | 0.669-0.789 |
| n-Propylbenzene | 15.78 | 10.59 | 1.490 | ok | 1.491 | 1.431-1.551 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Styrene | 12.71 | 10.59 | 1.200 | ok | 1.200 | 1.140-1.260 |
| 1,1,1-Trichloroethane | 4.28 | 3.61 | 1.186 | ok | 1.185 | 1.125-1.245 |
| 1,1,1,2-Tetrachloroethane | 10.68 | 10.59 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.93 | 10.59 | 1.221 | ok | 1.221 | 1.161-1.281 |
| 1,1,2-Trichloroethane | 7.32 | 4.93 | 1.485 | ok | 1.486 | 1.426-1.546 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.59 | 1.746 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.22 | 10.59 | 1.248 | ok | 1.248 | 1.188-1.308 |
| 1,2,3-Trimethylbenzene | 17.15 | 10.59 | 1.619 | ok | 1.620 | 1.560-1.680 |
| 1,2,4-Trimethylbenzene | 16.77 | 10.59 | 1.584 | ok | 1.584 | 1.524-1.644 |
| 1,3,5-Trimethylbenzene | 16.31 | 10.59 | 1.540 | ok | 1.540 | 1.480-1.600 |
| 2,2,4-Trimethylpentane | 5.61 | 4.93 | 1.138 | ok | 1.139 | 1.079-1.199 |
| Tertiary Butyl Alcohol | 2.72 | 3.61 | 0.753 | ok | 0.753 | 0.693-0.813 |
| Tetrachloroethylene | 9.45 | 4.93 | 1.917 | ok | 1.917 | 1.857-1.977 |
| Tetrahydrofuran | 3.90 | 3.61 | 1.080 | ok | 1.083 | 1.023-1.143 |
| Toluene | 7.70 | 4.93 | 1.562 | ok | 1.562 | 1.502-1.622 |
| Trichloroethylene | 5.52 | 4.93 | 1.120 | ok | 1.119 | 1.059-1.179 |
| Trichlorofluoromethane | 2.52 | 3.61 | 0.698 | ok | 0.698 | 0.638-0.758 |
| Vinyl chloride | 2.04 | 3.61 | 0.565 | ok | 0.565 | 0.505-0.625 |
| Vinyl Acetate | 3.23 | 3.61 | 0.895 | ok | 0.895 | 0.835-0.955 |
| m,p-Xylene | 11.98 | 10.59 | 1.131 | ok | 1.132 | 1.072-1.192 |
| o-Xylene | 12.93 | 10.59 | 1.221 | ok | 1.220 | 1.160-1.280 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.61 | ok | 3.61 | 3.28-3.94 | 72073 | ok | 69048 | 41429-96667 |
| 1,4-Difluorobenzene | 4.93 | ok | 4.93 | 4.60-5.26 | 384279 | ok | 370656 | 222394-518918 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 358155 | ok | 336964 | 202178-471750 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.46 | 3.61 | 0.681 | ok | 0.682 | 0.622-0.742 |
| Acrolein | 2.42 | 3.61 | 0.670 | ok | 0.670 | 0.610-0.730 |
| Acrylonitrile | 2.61 | 3.61 | 0.723 | ok | 0.721 | 0.661-0.781 |
| Acetonitrile | 2.37 | 3.61 | 0.657 | ok | 0.657 | 0.597-0.717 |
| 1,3-Butadiene | 2.09 | 3.61 | 0.579 | ok | 0.578 | 0.518-0.638 |
| Benzene | 4.60 | 3.61 | 1.274 | ok | 1.274 | 1.214-1.334 |
| Bromobenzene | 14.32 | 10.59 | 1.352 | ok | 1.352 | 1.292-1.412 |
| Bromodichloromethane | 5.47 | 4.93 | 1.110 | ok | 1.108 | 1.048-1.168 |
| Bromoform | 11.81 | 10.59 | 1.115 | ok | 1.114 | 1.054-1.174 |
| Bromomethane | 2.19 | 3.61 | 0.607 | ok | 0.606 | 0.546-0.666 |
| Bromoethene | 2.38 | 3.61 | 0.659 | ok | 0.659 | 0.599-0.719 |
| n-Butane | 2.11 | 3.61 | 0.584 | ok | 0.584 | 0.524-0.644 |
| Benzyl Chloride | 16.86 | 10.59 | 1.592 | ok | 1.592 | 1.532-1.652 |
| n-Butylbenzene | 17.57 | 10.59 | 1.659 | ok | 1.660 | 1.600-1.720 |
| sec-Butylbenzene | 17.05 | 10.59 | 1.610 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.77 | 10.59 | 1.584 | ok | 1.583 | 1.523-1.643 |
| Carbon disulfide | 2.85 | 3.61 | 0.789 | ok | 0.787 | 0.727-0.847 |
| Chlorobenzene | 10.67 | 10.59 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.87 | 3.61 | 0.518 | ok | 0.517 | 0.457-0.577 |
| Chloroethane | 2.25 | 3.61 | 0.623 | ok | 0.623 | 0.563-0.683 |
| Chlorotrifluoroethene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Chloroform | 3.69 | 3.61 | 1.022 | ok | 1.021 | 0.961-1.081 |
| Chloromethane | 1.96 | 3.61 | 0.543 | ok | 0.542 | 0.482-0.602 |
| 3-Chloropropene | 2.79 | 3.61 | 0.773 | ok | 0.773 | 0.713-0.833 |
| 2-Chlorotoluene | 15.45 | 10.59 | 1.459 | ok | 1.459 | 1.399-1.519 |
| Carbon tetrachloride | 4.71 | 3.61 | 1.305 | ok | 1.305 | 1.245-1.365 |
| Cyclohexane | 4.81 | 4.93 | 0.976 | ok | 0.976 | 0.916-1.036 |
| 1,1-Dichloroethane | 3.16 | 3.61 | 0.875 | ok | 0.875 | 0.815-0.935 |
| 1,1-Dichloroethylene | 2.71 | 3.61 | 0.751 | ok | 0.751 | 0.691-0.811 |
| 1,2-Dibromoethane (EDB) | 8.60 | 4.93 | 1.744 | ok | 1.743 | 1.683-1.803 |
| 1,2-Dichloroethane | 4.11 | 3.61 | 1.139 | ok | 1.139 | 1.079-1.199 |
| 1,2-Dichloropropane | 5.29 | 4.93 | 1.073 | ok | 1.071 | 1.011-1.131 |
| 1,3-Dichloropropane | 7.76 | 4.93 | 1.574 | ok | 1.574 | 1.514-1.634 |
| 1,4-Dioxane | 5.53 | 4.93 | 1.122 | ok | 1.123 | 1.063-1.183 |
| Dichlorodifluoromethane | 1.90 | 3.61 | 0.526 | ok | 0.526 | 0.466-0.586 |
| Dichlorofluoromethane | 2.29 | 3.61 | 0.634 | ok | 0.633 | 0.573-0.693 |
| Dibromochloromethane | 8.24 | 4.93 | 1.671 | ok | 1.671 | 1.611-1.731 |
| Dibromomethane | 5.24 | 4.93 | 1.063 | ok | 1.063 | 1.003-1.123 |
| trans-1,2-Dichloroethylene | 3.08 | 3.61 | 0.853 | ok | 0.853 | 0.793-0.913 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.53 | 3.61 | 0.978 | ok | 0.978 | 0.918-1.038 |
| cis-1,3-Dichloropropene | 6.48 | 4.93 | 1.314 | ok | 1.313 | 1.253-1.373 |
| m-Dichlorobenzene | 16.84 | 10.59 | 1.590 | ok | 1.590 | 1.530-1.650 |
| o-Dichlorobenzene | 17.21 | 10.59 | 1.625 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.92 | 10.59 | 1.598 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.16 | 4.93 | 1.452 | ok | 1.452 | 1.392-1.512 |
| Di-Isopropyl ether | 3.67 | 3.61 | 1.017 | ok | 1.017 | 0.957-1.077 |
| 2,3-Dimethylpentane | 5.08 | 4.93 | 1.030 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.20 | 3.61 | 1.163 | ok | 1.162 | 1.102-1.222 |
| Ethanol | 2.29 | 3.61 | 0.634 | ok | 0.634 | 0.574-0.694 |
| Ethylbenzene | 11.56 | 10.59 | 1.092 | ok | 1.091 | 1.031-1.151 |
| Ethyl Acetate | 3.68 | 3.61 | 1.019 | ok | 1.018 | 0.958-1.078 |
| Ethyl Acrylate | 5.40 | 4.93 | 1.095 | ok | 1.095 | 1.035-1.155 |
| 4-Ethyltoluene | 16.15 | 10.59 | 1.525 | ok | 1.525 | 1.465-1.585 |
| Freon 113 | 2.85 | 3.61 | 0.789 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 2.00 | 3.61 | 0.554 | ok | 0.553 | 0.493-0.613 |
| Freon 123 | 2.44 | 3.61 | 0.676 | ok | 0.674 | 0.614-0.734 |
| Freon 123A | 2.46 | 3.61 | 0.681 | ok | 0.679 | 0.619-0.739 |
| Freon 142B | 1.95 | 3.61 | 0.540 | ok | 0.540 | 0.480-0.600 |
| Freon 152A | 1.85 | 3.61 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Heptane | 5.94 | 4.93 | 1.205 | ok | 1.204 | 1.144-1.264 |
| Hexachlorobutadiene | 18.80 | 10.59 | 1.775 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.75 | 10.59 | 1.676 | ok | 1.677 | 1.617-1.737 |
| Hexane | 3.67 | 3.61 | 1.017 | ok | 1.015 | 0.955-1.075 |
| 2-Hexanone | 8.27 | 4.93 | 1.677 | ok | 1.678 | 1.618-1.738 |
| Iodomethane | 2.69 | 3.61 | 0.745 | ok | 0.745 | 0.685-0.805 |
| Isopropylbenzene | 14.45 | 10.59 | 1.364 | ok | 1.364 | 1.304-1.424 |
| Isopropyl Alcohol | 2.54 | 3.61 | 0.704 | ok | 0.702 | 0.642-0.762 |
| p-Isopropyltoluene | 17.23 | 10.59 | 1.627 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.75 | 3.61 | 0.762 | ok | 0.762 | 0.702-0.822 |
| Methyl ethyl ketone | 3.33 | 3.61 | 0.922 | ok | 0.923 | 0.863-0.983 |
| Methyl Isobutyl Ketone | 6.58 | 4.93 | 1.335 | ok | 1.334 | 1.274-1.394 |
| Methyl Tert Butyl Ether | 3.19 | 3.61 | 0.884 | ok | 0.884 | 0.824-0.944 |
| Methylmethacrylate | 5.83 | 4.93 | 1.183 | ok | 1.182 | 1.122-1.242 |
| Naphthalene | 18.54 | 10.59 | 1.751 | ok | 1.751 | 1.691-1.811 |
| Nonane | 14.04 | 10.59 | 1.326 | ok | 1.326 | 1.266-1.386 |
| Octane | 9.60 | 4.93 | 1.947 | ok | 1.946 | 1.886-2.006 |
| Pentane | 2.63 | 3.61 | 0.729 | ok | 0.729 | 0.669-0.789 |
| n-Propylbenzene | 15.79 | 10.59 | 1.491 | ok | 1.491 | 1.431-1.551 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | Reporting this level |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Styrene | 12.71 | 10.59 | 1.200 | ok | 1.200 | 1.140-1.260 |
| 1,1,1-Trichloroethane | 4.28 | 3.61 | 1.186 | ok | 1.185 | 1.125-1.245 |
| 1,1,1,2-Tetrachloroethane | 10.69 | 10.59 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.94 | 10.59 | 1.222 | ok | 1.221 | 1.161-1.281 |
| 1,1,2-Trichloroethane | 7.33 | 4.93 | 1.487 | ok | 1.486 | 1.426-1.546 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.59 | 1.746 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.23 | 10.59 | 1.249 | ok | 1.248 | 1.188-1.308 |
| 1,2,3-Trimethylbenzene | 17.16 | 10.59 | 1.620 | ok | 1.620 | 1.560-1.680 |
| 1,2,4-Trimethylbenzene | 16.78 | 10.59 | 1.585 | ok | 1.584 | 1.524-1.644 |
| 1,3,5-Trimethylbenzene | 16.31 | 10.59 | 1.540 | ok | 1.540 | 1.480-1.600 |
| 2,2,4-Trimethylpentane | 5.62 | 4.93 | 1.140 | ok | 1.139 | 1.079-1.199 |
| Tertiary Butyl Alcohol | 2.72 | 3.61 | 0.753 | ok | 0.753 | 0.693-0.813 |
| Tetrachloroethylene | 9.45 | 4.93 | 1.917 | ok | 1.917 | 1.857-1.977 |
| Tetrahydrofuran | 3.90 | 3.61 | 1.080 | ok | 1.083 | 1.023-1.143 |
| Toluene | 7.70 | 4.93 | 1.562 | ok | 1.562 | 1.502-1.622 |
| Trichloroethylene | 5.52 | 4.93 | 1.120 | ok | 1.119 | 1.059-1.179 |
| Trichlorofluoromethane | 2.52 | 3.61 | 0.698 | ok | 0.698 | 0.638-0.758 |
| Vinyl chloride | 2.04 | 3.61 | 0.565 | ok | 0.565 | 0.505-0.625 |
| Vinyl Acetate | 3.23 | 3.61 | 0.895 | ok | 0.895 | 0.835-0.955 |
| m,p-Xylene | 11.99 | 10.59 | 1.132 | ok | 1.132 | 1.072-1.192 |
| o-Xylene | 12.93 | 10.59 | 1.221 | ok | 1.220 | 1.160-1.280 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.61 | ok | 3.61 | 3.28-3.94 | 75390 | ok | 69048 | 41429-96667 |
| 1,4-Difluorobenzene | 4.93 | ok | 4.93 | 4.60-5.26 | 391613 | ok | 370656 | 222394-518918 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 360276 | ok | 336964 | 202178-471750 |

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| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | TCH | 10 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.46 | 3.61 | 0.681 | ok | 0.682 | 0.622-0.742 |
| Acrolein | 2.42 | 3.61 | 0.670 | ok | 0.670 | 0.610-0.730 |
| Acrylonitrile | 2.61 | 3.61 | 0.723 | ok | 0.721 | 0.661-0.781 |
| Acetonitrile | 2.37 | 3.61 | 0.657 | ok | 0.657 | 0.597-0.717 |
| 1,3-Butadiene | 2.09 | 3.61 | 0.579 | ok | 0.578 | 0.518-0.638 |
| Benzene | 4.60 | 3.61 | 1.274 | ok | 1.274 | 1.214-1.334 |
| Bromobenzene | 14.33 | 10.59 | 1.353 | ok | 1.352 | 1.292-1.412 |
| Bromodichloromethane | 5.47 | 4.93 | 1.110 | ok | 1.108 | 1.048-1.168 |
| Bromoform | 11.80 | 10.59 | 1.114 | ok | 1.114 | 1.054-1.174 |
| Bromomethane | 2.19 | 3.61 | 0.607 | ok | 0.606 | 0.546-0.666 |
| Bromoethene | 2.38 | 3.61 | 0.659 | ok | 0.659 | 0.599-0.719 |
| n-Butane | 2.11 | 3.61 | 0.584 | ok | 0.584 | 0.524-0.644 |
| Benzyl Chloride | 16.86 | 10.59 | 1.592 | ok | 1.592 | 1.532-1.652 |
| n-Butylbenzene | 17.58 | 10.59 | 1.660 | ok | 1.660 | 1.600-1.720 |
| sec-Butylbenzene | 17.05 | 10.59 | 1.610 | ok | 1.610 | 1.550-1.670 |
| tert-Butylbenzene | 16.77 | 10.59 | 1.584 | ok | 1.583 | 1.523-1.643 |
| Carbon disulfide | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Chlorobenzene | 10.68 | 10.59 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.86 | 3.61 | 0.515 | ok | 0.517 | 0.457-0.577 |
| Chloroethane | 2.25 | 3.61 | 0.623 | ok | 0.623 | 0.563-0.683 |
| Chlorotrifluoroethene | 1.88 | 3.61 | 0.521 | ok | 0.520 | 0.460-0.580 |
| Chloroform | 3.69 | 3.61 | 1.022 | ok | 1.021 | 0.961-1.081 |
| Chloromethane | 1.96 | 3.61 | 0.543 | ok | 0.542 | 0.482-0.602 |
| 3-Chloropropene | 2.79 | 3.61 | 0.773 | ok | 0.773 | 0.713-0.833 |
| 2-Chlorotoluene | 15.46 | 10.59 | 1.460 | ok | 1.459 | 1.399-1.519 |
| Carbon tetrachloride | 4.71 | 3.61 | 1.305 | ok | 1.305 | 1.245-1.365 |
| Cyclohexane | 4.81 | 4.93 | 0.976 | ok | 0.976 | 0.916-1.036 |
| 1,1-Dichloroethane | 3.16 | 3.61 | 0.875 | ok | 0.875 | 0.815-0.935 |
| 1,1-Dichloroethylene | 2.71 | 3.61 | 0.751 | ok | 0.751 | 0.691-0.811 |
| 1,2-Dibromoethane (EDB) | 8.60 | 4.93 | 1.744 | ok | 1.743 | 1.683-1.803 |
| 1,2-Dichloroethane | 4.11 | 3.61 | 1.139 | ok | 1.139 | 1.079-1.199 |
| 1,2-Dichloropropane | 5.28 | 4.93 | 1.071 | ok | 1.071 | 1.011-1.131 |
| 1,3-Dichloropropane | 7.77 | 4.93 | 1.576 | ok | 1.574 | 1.514-1.634 |
| 1,4-Dioxane | 5.53 | 4.93 | 1.122 | ok | 1.123 | 1.063-1.183 |
| Dichlorodifluoromethane | 1.90 | 3.61 | 0.526 | ok | 0.526 | 0.466-0.586 |
| Dichlorofluoromethane | 2.28 | 3.61 | 0.632 | ok | 0.633 | 0.573-0.693 |
| Dibromochloromethane | 8.25 | 4.93 | 1.673 | ok | 1.671 | 1.611-1.731 |
| Dibromomethane | 5.24 | 4.93 | 1.063 | ok | 1.063 | 1.003-1.123 |
| trans-1,2-Dichloroethylene | 3.08 | 3.61 | 0.853 | ok | 0.853 | 0.793-0.913 |

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|---|---|---|---|---|---|---|---|
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | TCH | 0.1 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | TCH | 0.2 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | TCH | 5 | GCMS2W | TO-15 | |
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| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.53 | 3.61 | 0.978 | ok | 0.978 | 0.918-1.038 |
| cis-1,3-Dichloropropene | 6.48 | 4.93 | 1.314 | ok | 1.313 | 1.253-1.373 |
| m-Dichlorobenzene | 16.84 | 10.59 | 1.590 | ok | 1.590 | 1.530-1.650 |
| o-Dichlorobenzene | 17.22 | 10.59 | 1.626 | ok | 1.626 | 1.566-1.686 |
| p-Dichlorobenzene | 16.92 | 10.59 | 1.598 | ok | 1.598 | 1.538-1.658 |
| trans-1,3-Dichloropropene | 7.16 | 4.93 | 1.452 | ok | 1.452 | 1.392-1.512 |
| Di-Isopropyl ether | 3.67 | 3.61 | 1.017 | ok | 1.017 | 0.957-1.077 |
| 2,3-Dimethylpentane | 5.07 | 4.93 | 1.028 | ok | 1.029 | 0.969-1.089 |
| 2,4-Dimethylpentane | 4.20 | 3.61 | 1.163 | ok | 1.162 | 1.102-1.222 |
| Ethanol | 2.29 | 3.61 | 0.634 | ok | 0.634 | 0.574-0.694 |
| Ethylbenzene | 11.56 | 10.59 | 1.092 | ok | 1.091 | 1.031-1.151 |
| Ethyl Acetate | 3.68 | 3.61 | 1.019 | ok | 1.018 | 0.958-1.078 |
| Ethyl Acrylate | 5.40 | 4.93 | 1.095 | ok | 1.095 | 1.035-1.155 |
| 4-Ethyltoluene | 16.15 | 10.59 | 1.525 | ok | 1.525 | 1.465-1.585 |
| Freon 113 | 2.84 | 3.61 | 0.787 | ok | 0.787 | 0.727-0.847 |
| Freon 114 | 2.00 | 3.61 | 0.554 | ok | 0.553 | 0.493-0.613 |
| Freon 123 | 2.44 | 3.61 | 0.676 | ok | 0.674 | 0.614-0.734 |
| Freon 123A | 2.45 | 3.61 | 0.679 | ok | 0.679 | 0.619-0.739 |
| Freon 142B | 1.95 | 3.61 | 0.540 | ok | 0.540 | 0.480-0.600 |
| Freon 152A | 1.85 | 3.61 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Heptane | 5.94 | 4.93 | 1.205 | ok | 1.204 | 1.144-1.264 |
| Hexachlorobutadiene | 18.80 | 10.59 | 1.775 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.75 | 10.59 | 1.676 | ok | 1.677 | 1.617-1.737 |
| Hexane | 3.67 | 3.61 | 1.017 | ok | 1.015 | 0.955-1.075 |
| 2-Hexanone | 8.27 | 4.93 | 1.677 | ok | 1.678 | 1.618-1.738 |
| Iodomethane | 2.69 | 3.61 | 0.745 | ok | 0.745 | 0.685-0.805 |
| Isopropylbenzene | 14.45 | 10.59 | 1.364 | ok | 1.364 | 1.304-1.424 |
| Isopropyl Alcohol | 2.53 | 3.61 | 0.701 | ok | 0.702 | 0.642-0.762 |
| p-Isopropyltoluene | 17.23 | 10.59 | 1.627 | ok | 1.627 | 1.567-1.687 |
| Methylene chloride | 2.75 | 3.61 | 0.762 | ok | 0.762 | 0.702-0.822 |
| Methyl ethyl ketone | 3.33 | 3.61 | 0.922 | ok | 0.923 | 0.863-0.983 |
| Methyl Isobutyl Ketone | 6.58 | 4.93 | 1.335 | ok | 1.334 | 1.274-1.394 |
| Methyl Tert Butyl Ether | 3.19 | 3.61 | 0.884 | ok | 0.884 | 0.824-0.944 |
| Methylmethacrylate | 5.83 | 4.93 | 1.183 | ok | 1.182 | 1.122-1.242 |
| Naphthalene | 18.54 | 10.59 | 1.751 | ok | 1.751 | 1.691-1.811 |
| Nonane | 14.05 | 10.59 | 1.327 | ok | 1.326 | 1.266-1.386 |
| Octane | 9.60 | 4.93 | 1.947 | ok | 1.946 | 1.886-2.006 |
| Pentane | 2.63 | 3.61 | 0.729 | ok | 0.729 | 0.669-0.789 |
| n-Propylbenzene | 15.79 | 10.59 | 1.491 | ok | 1.491 | 1.431-1.551 |

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| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | TCH | 0.04 | GCMS2W | TO-15 | |
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| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | TCH | 0.5 | GCMS2W | TO-15 | |
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| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | TCH | 20 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | TCH | 40 | GCMS2W | TO-15 | |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | TCH | 50 | GCMS2W | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
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| Styrene | 12.72 | 10.59 | 1.201 | ok | 1.200 | 1.140-1.260 |
| 1,1,1-Trichloroethane | 4.28 | 3.61 | 1.186 | ok | 1.185 | 1.125-1.245 |
| 1,1,1,2-Tetrachloroethane | 10.69 | 10.59 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.95 | 10.59 | 1.223 | ok | 1.221 | 1.161-1.281 |
| 1,1,2-Trichloroethane | 7.33 | 4.93 | 1.487 | ok | 1.486 | 1.426-1.546 |
| 1,2,4-Trichlorobenzene | 18.50 | 10.59 | 1.747 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.23 | 10.59 | 1.249 | ok | 1.248 | 1.188-1.308 |
| 1,2,3-Trimethylbenzene | 17.16 | 10.59 | 1.620 | ok | 1.620 | 1.560-1.680 |
| 1,2,4-Trimethylbenzene | 16.78 | 10.59 | 1.585 | ok | 1.584 | 1.524-1.644 |
| 1,3,5-Trimethylbenzene | 16.31 | 10.59 | 1.540 | ok | 1.540 | 1.480-1.600 |
| 2,2,4-Trimethylpentane | 5.62 | 4.93 | 1.140 | ok | 1.139 | 1.079-1.199 |
| Tertiary Butyl Alcohol | 2.72 | 3.61 | 0.753 | ok | 0.753 | 0.693-0.813 |
| Tetrachloroethylene | 9.45 | 4.93 | 1.917 | ok | 1.917 | 1.857-1.977 |
| Tetrahydrofuran | 3.90 | 3.61 | 1.080 | ok | 1.083 | 1.023-1.143 |
| Toluene | 7.70 | 4.93 | 1.562 | ok | 1.562 | 1.502-1.622 |
| Trichloroethylene | 5.52 | 4.93 | 1.120 | ok | 1.119 | 1.059-1.179 |
| Trichlorofluoromethane | 2.52 | 3.61 | 0.698 | ok | 0.698 | 0.638-0.758 |
| Vinyl chloride | 2.04 | 3.61 | 0.565 | ok | 0.565 | 0.505-0.625 |
| Vinyl Acetate | 3.23 | 3.61 | 0.895 | ok | 0.895 | 0.835-0.955 |
| m,p-Xylene | 12.00 | 10.59 | 1.133 | ok | 1.132 | 1.072-1.192 |
| o-Xylene | 12.94 | 10.59 | 1.222 | ok | 1.220 | 1.160-1.280 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.61 | ok | 3.61 | 3.28-3.94 | 77394 | ok | 69048 | 41429-96667 |
| 1,4-Difluorobenzene | 4.93 | ok | 4.93 | 4.60-5.26 | 400362 | ok | 370656 | 222394-518918 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 371357 | ok | 336964 | 202178-471750 |

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|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.15 | 3.34 | 0.644 | ok | 0.641 | 0.581-0.701 |
| Acrolein | 2.10 | 3.34 | 0.629 | ok | 0.629 | 0.569-0.689 |
| Acrylonitrile | 2.27 | 3.34 | 0.680 | ok | 0.680 | 0.620-0.740 |
| Acetonitrile | 2.07 | 3.34 | 0.620 | ok | 0.618 | 0.558-0.678 |
| 1,3-Butadiene | 1.87 | 3.34 | 0.560 | ok | 0.559 | 0.499-0.619 |
| Benzene | 4.38 | 3.34 | 1.311 | ok | 1.312 | 1.252-1.372 |
| Bromobenzene | 14.38 | 10.58 | 1.359 | ok | 1.358 | 1.298-1.418 |
| Bromodichloromethane | 5.30 | 4.73 | 1.121 | ok | 1.120 | 1.060-1.180 |
| Bromoform | 11.82 | 10.58 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.93 | 3.34 | 0.578 | ok | 0.578 | 0.518-0.638 |
| Bromoethene | 2.07 | 3.34 | 0.620 | ok | 0.620 | 0.560-0.680 |
| n-Butane | 1.88 | 3.34 | 0.563 | ok | 0.563 | 0.503-0.623 |
| Benzyl Chloride | 16.89 | 10.58 | 1.596 | ok | 1.595 | 1.535-1.655 |
| n-Butylbenzene | 17.59 | 10.58 | 1.663 | ok | 1.662 | 1.602-1.722 |
| sec-Butylbenzene | 17.07 | 10.58 | 1.613 | ok | 1.613 | 1.553-1.673 |
| tert-Butylbenzene | 16.79 | 10.58 | 1.587 | ok | 1.587 | 1.527-1.647 |
| Carbon disulfide | 2.52 | 3.34 | 0.754 | ok | 0.755 | 0.695-0.815 |
| Chlorobenzene | 10.66 | 10.58 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.70 | 3.34 | 0.509 | ok | 0.510 | 0.450-0.570 |
| Chloroethane | 1.98 | 3.34 | 0.593 | ok | 0.593 | 0.533-0.653 |
| Chlorotrifluoroethene | 1.72 | 3.34 | 0.515 | ok | 0.515 | 0.455-0.575 |
| Chloroform | 3.42 | 3.34 | 1.024 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.77 | 3.34 | 0.530 | ok | 0.531 | 0.471-0.591 |
| 3-Chloropropene | 2.46 | 3.34 | 0.737 | ok | 0.737 | 0.677-0.797 |
| 2-Chlorotoluene | 15.51 | 10.58 | 1.466 | ok | 1.466 | 1.406-1.526 |
| Carbon tetrachloride | 4.50 | 3.34 | 1.347 | ok | 1.347 | 1.287-1.407 |
| Cyclohexane | 4.60 | 4.73 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.85 | 3.34 | 0.853 | ok | 0.854 | 0.794-0.914 |
| 1,1-Dichloroethylene | 2.38 | 3.34 | 0.713 | ok | 0.713 | 0.653-0.773 |
| 1,2-Dibromoethane (EDB) | 8.54 | 4.73 | 1.805 | ok | 1.806 | 1.746-1.866 |
| 1,2-Dichloroethane | 3.87 | 3.34 | 1.159 | ok | 1.159 | 1.099-1.219 |
| 1,2-Dichloropropane | 5.10 | 4.73 | 1.078 | ok | 1.078 | 1.018-1.138 |
| 1,3-Dichloropropane | 7.69 | 4.73 | 1.626 | ok | 1.625 | 1.565-1.685 |
| 1,4-Dioxane | 5.39 | 4.73 | 1.140 | ok | 1.138 | 1.078-1.198 |
| Dichlorodifluoromethane | 1.73 | 3.34 | 0.518 | ok | 0.518 | 0.458-0.578 |
| Dichlorofluoromethane | 2.00 | 3.34 | 0.599 | ok | 0.599 | 0.539-0.659 |
| Dibromochloromethane | 8.18 | 4.73 | 1.729 | ok | 1.730 | 1.670-1.790 |
| Dibromomethane | 5.06 | 4.73 | 1.070 | ok | 1.070 | 1.010-1.130 |
| trans-1,2-Dichloroethylene | 2.77 | 3.34 | 0.829 | ok | 0.830 | 0.770-0.890 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.25 | 3.34 | 0.973 | ok | 0.974 | 0.914-1.034 |
| cis-1,3-Dichloropropene | 6.35 | 4.73 | 1.342 | ok | 1.342 | 1.282-1.402 |
| m-Dichlorobenzene | 16.86 | 10.58 | 1.594 | ok | 1.593 | 1.533-1.653 |
| o-Dichlorobenzene | 17.23 | 10.58 | 1.629 | ok | 1.628 | 1.568-1.688 |
| p-Dichlorobenzene | 16.94 | 10.58 | 1.601 | ok | 1.601 | 1.541-1.661 |
| trans-1,3-Dichloropropene | 7.06 | 4.73 | 1.493 | ok | 1.494 | 1.434-1.554 |
| Di-Isopropyl ether | 3.40 | 3.34 | 1.018 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.87 | 4.73 | 1.030 | ok | 1.030 | 0.970-1.090 |
| 2,4-Dimethylpentane | 3.95 | 3.34 | 1.183 | ok | 1.184 | 1.124-1.244 |
| Ethanol | 2.01 | 3.34 | 0.602 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.56 | 10.58 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.41 | 3.34 | 1.021 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.24 | 4.73 | 1.108 | ok | 1.108 | 1.048-1.168 |
| 4-Ethyltoluene | 16.20 | 10.58 | 1.531 | ok | 1.530 | 1.470-1.590 |
| Freon 113 | 2.51 | 3.34 | 0.751 | ok | 0.754 | 0.694-0.814 |
| Freon 114 | 1.80 | 3.34 | 0.539 | ok | 0.539 | 0.479-0.599 |
| Freon 123 | 2.12 | 3.34 | 0.635 | ok | 0.635 | 0.575-0.695 |
| Freon 123A | 2.13 | 3.34 | 0.638 | ok | 0.638 | 0.578-0.698 |
| Freon 142B | 1.77 | 3.34 | 0.530 | ok | 0.530 | 0.470-0.590 |
| Freon 152A | 1.69 | 3.34 | 0.506 | ok | 0.507 | 0.447-0.567 |
| Heptane | 5.77 | 4.73 | 1.220 | ok | 1.221 | 1.161-1.281 |
| Hexachlorobutadiene | 18.80 | 10.58 | 1.777 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.77 | 10.58 | 1.680 | ok | 1.678 | 1.618-1.738 |
| Hexane | 3.39 | 3.34 | 1.015 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.25 | 4.73 | 1.744 | ok | 1.741 | 1.681-1.801 |
| Iodomethane | 2.36 | 3.34 | 0.707 | ok | 0.706 | 0.646-0.766 |
| Isopropylbenzene | 14.50 | 10.58 | 1.371 | ok | 1.370 | 1.310-1.430 |
| Isopropyl Alcohol | 2.21 | 3.34 | 0.662 | ok | 0.661 | 0.601-0.721 |
| p-Isopropyltoluene | 17.25 | 10.58 | 1.630 | ok | 1.629 | 1.569-1.689 |
| Methylene chloride | 2.42 | 3.34 | 0.725 | ok | 0.725 | 0.665-0.785 |
| Methyl ethyl ketone | 3.05 | 3.34 | 0.913 | ok | 0.911 | 0.851-0.971 |
| Methyl Isobutyl Ketone | 6.48 | 4.73 | 1.370 | ok | 1.369 | 1.309-1.429 |
| Methyl Tert Butyl Ether | 2.89 | 3.34 | 0.865 | ok | 0.865 | 0.805-0.925 |
| Methylmethacrylate | 5.68 | 4.73 | 1.201 | ok | 1.203 | 1.143-1.263 |
| Naphthalene | 18.55 | 10.58 | 1.753 | ok | 1.752 | 1.692-1.812 |
| Nonane | 14.07 | 10.58 | 1.330 | ok | 1.330 | 1.270-1.390 |
| Octane | 9.55 | 4.73 | 2.019 | ok | 2.021 | 1.961-2.081 |
| Pentane | 2.30 | 3.34 | 0.689 | ok | 0.689 | 0.629-0.749 |
| n-Propylbenzene | 15.86 | 10.58 | 1.499 | ok | 1.498 | 1.438-1.558 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.71 | 3.34 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Styrene | 12.74 | 10.58 | 1.204 | ok | 1.204 | 1.144-1.264 |
| 1,1,1-Trichloroethane | 4.04 | 3.34 | 1.210 | ok | 1.211 | 1.151-1.271 |
| 1,1,1,2-Tetrachloroethane | 10.67 | 10.58 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.99 | 10.58 | 1.228 | ok | 1.227 | 1.167-1.287 |
| 1,1,2-Trichloroethane | 7.23 | 4.73 | 1.529 | ok | 1.530 | 1.470-1.590 |
| 1,2,4-Trichlorobenzene | 18.50 | 10.58 | 1.749 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.27 | 10.58 | 1.254 | ok | 1.254 | 1.194-1.314 |
| 1,2,3-Trimethylbenzene | 17.18 | 10.58 | 1.624 | ok | 1.623 | 1.563-1.683 |
| 1,2,4-Trimethylbenzene | 16.80 | 10.58 | 1.588 | ok | 1.587 | 1.527-1.647 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.58 | 1.545 | ok | 1.544 | 1.484-1.604 |
| 2,2,4-Trimethylpentane | 5.44 | 4.73 | 1.150 | ok | 1.150 | 1.090-1.210 |
| Tertiary Butyl Alcohol | 2.41 | 3.34 | 0.722 | ok | 0.719 | 0.659-0.779 |
| Tetrachloroethylene | 9.41 | 4.73 | 1.989 | ok | 1.990 | 1.930-2.050 |
| Tetrahydrofuran | 3.67 | 3.34 | 1.099 | ok | 1.095 | 1.035-1.155 |
| Toluene | 7.61 | 4.73 | 1.609 | ok | 1.610 | 1.550-1.670 |
| Trichloroethylene | 5.34 | 4.73 | 1.129 | ok | 1.131 | 1.071-1.191 |
| Trichlorofluoromethane | 2.19 | 3.34 | 0.656 | ok | 0.656 | 0.596-0.716 |
| Vinyl chloride | 1.83 | 3.34 | 0.548 | ok | 0.548 | 0.488-0.608 |
| Vinyl Acetate | 2.93 | 3.34 | 0.877 | ok | 0.878 | 0.818-0.938 |
| m,p-Xylene | 11.99 | 10.58 | 1.133 | ok | 1.134 | 1.074-1.194 |
| o-Xylene | 12.96 | 10.58 | 1.225 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.34 | ok | 3.34 | 3.01-3.67 | 42838 | ok | 42592 | 25555-59629 |
| 1,4-Difluorobenzene | 4.73 | ok | 4.73 | 4.40-5.06 | 239814 | ok | 230692 | 138415-322969 |
| Chlorobenzene-D5 | 10.58 | ok | 10.59 | 10.26-10.92 | 156932 | ok | 168831 | 101299-236363 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.14 | 3.34 | 0.641 | ok | 0.641 | 0.581-0.701 |
| Acrolein | 2.10 | 3.34 | 0.629 | ok | 0.629 | 0.569-0.689 |
| Acrylonitrile | 2.27 | 3.34 | 0.680 | ok | 0.680 | 0.620-0.740 |
| Acetonitrile | 2.07 | 3.34 | 0.620 | ok | 0.618 | 0.558-0.678 |
| 1,3-Butadiene | 1.87 | 3.34 | 0.560 | ok | 0.559 | 0.499-0.619 |
| Benzene | 4.38 | 3.34 | 1.311 | ok | 1.312 | 1.252-1.372 |
| Bromobenzene | 14.37 | 10.59 | 1.357 | ok | 1.358 | 1.298-1.418 |
| Bromodichloromethane | 5.29 | 4.73 | 1.118 | ok | 1.120 | 1.060-1.180 |
| Bromoform | 11.83 | 10.59 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.93 | 3.34 | 0.578 | ok | 0.578 | 0.518-0.638 |
| Bromoethene | 2.07 | 3.34 | 0.620 | ok | 0.620 | 0.560-0.680 |
| n-Butane | 1.88 | 3.34 | 0.563 | ok | 0.563 | 0.503-0.623 |
| Benzyl Chloride | 16.88 | 10.59 | 1.594 | ok | 1.595 | 1.535-1.655 |
| n-Butylbenzene | 17.59 | 10.59 | 1.661 | ok | 1.662 | 1.602-1.722 |
| sec-Butylbenzene | 17.07 | 10.59 | 1.612 | ok | 1.613 | 1.553-1.673 |
| tert-Butylbenzene | 16.80 | 10.59 | 1.586 | ok | 1.587 | 1.527-1.647 |
| Carbon disulfide | 2.52 | 3.34 | 0.754 | ok | 0.755 | 0.695-0.815 |
| Chlorobenzene | 10.66 | 10.59 | 1.007 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.71 | 3.34 | 0.512 | ok | 0.510 | 0.450-0.570 |
| Chloroethane | 1.98 | 3.34 | 0.593 | ok | 0.593 | 0.533-0.653 |
| Chlorotrifluoroethene | 1.72 | 3.34 | 0.515 | ok | 0.515 | 0.455-0.575 |
| Chloroform | 3.42 | 3.34 | 1.024 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.77 | 3.34 | 0.530 | ok | 0.531 | 0.471-0.591 |
| 3-Chloropropene | 2.46 | 3.34 | 0.737 | ok | 0.737 | 0.677-0.797 |
| 2-Chlorotoluene | 15.52 | 10.59 | 1.466 | ok | 1.466 | 1.406-1.526 |
| Carbon tetrachloride | 4.50 | 3.34 | 1.347 | ok | 1.347 | 1.287-1.407 |
| Cyclohexane | 4.60 | 4.73 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.85 | 3.34 | 0.853 | ok | 0.854 | 0.794-0.914 |
| 1,1-Dichloroethylene | 2.38 | 3.34 | 0.713 | ok | 0.713 | 0.653-0.773 |
| 1,2-Dibromoethane (EDB) | 8.53 | 4.73 | 1.803 | ok | 1.806 | 1.746-1.866 |
| 1,2-Dichloroethane | 3.87 | 3.34 | 1.159 | ok | 1.159 | 1.099-1.219 |
| 1,2-Dichloropropane | 5.10 | 4.73 | 1.078 | ok | 1.078 | 1.018-1.138 |
| 1,3-Dichloropropane | 7.68 | 4.73 | 1.624 | ok | 1.625 | 1.565-1.685 |
| 1,4-Dioxane | 5.39 | 4.73 | 1.140 | ok | 1.138 | 1.078-1.198 |
| Dichlorodifluoromethane | 1.73 | 3.34 | 0.518 | ok | 0.518 | 0.458-0.578 |
| Dichlorofluoromethane | 2.00 | 3.34 | 0.599 | ok | 0.599 | 0.539-0.659 |
| Dibromochloromethane | 8.18 | 4.73 | 1.729 | ok | 1.730 | 1.670-1.790 |
| Dibromomethane | 5.06 | 4.73 | 1.070 | ok | 1.070 | 1.010-1.130 |
| trans-1,2-Dichloroethylene | 2.77 | 3.34 | 0.829 | ok | 0.830 | 0.770-0.890 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.25 | 3.34 | 0.973 | ok | 0.974 | 0.914-1.034 |
| cis-1,3-Dichloropropene | 6.34 | 4.73 | 1.340 | ok | 1.342 | 1.282-1.402 |
| m-Dichlorobenzene | 16.86 | 10.59 | 1.592 | ok | 1.593 | 1.533-1.653 |
| o-Dichlorobenzene | 17.23 | 10.59 | 1.627 | ok | 1.628 | 1.568-1.688 |
| p-Dichlorobenzene | 16.95 | 10.59 | 1.601 | ok | 1.601 | 1.541-1.661 |
| trans-1,3-Dichloropropene | 7.07 | 4.73 | 1.495 | ok | 1.494 | 1.434-1.554 |
| Di-Isopropyl ether | 3.40 | 3.34 | 1.018 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.87 | 4.73 | 1.030 | ok | 1.030 | 0.970-1.090 |
| 2,4-Dimethylpentane | 3.95 | 3.34 | 1.183 | ok | 1.184 | 1.124-1.244 |
| Ethanol | 2.01 | 3.34 | 0.602 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.57 | 10.59 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.41 | 3.34 | 1.021 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.24 | 4.73 | 1.108 | ok | 1.108 | 1.048-1.168 |
| 4-Ethyltoluene | 16.20 | 10.59 | 1.530 | ok | 1.530 | 1.470-1.590 |
| Freon 113 | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Freon 114 | 1.80 | 3.34 | 0.539 | ok | 0.539 | 0.479-0.599 |
| Freon 123 | 2.12 | 3.34 | 0.635 | ok | 0.635 | 0.575-0.695 |
| Freon 123A | 2.13 | 3.34 | 0.638 | ok | 0.638 | 0.578-0.698 |
| Freon 142B | 1.77 | 3.34 | 0.530 | ok | 0.530 | 0.470-0.590 |
| Freon 152A | 1.69 | 3.34 | 0.506 | ok | 0.507 | 0.447-0.567 |
| Heptane | 5.77 | 4.73 | 1.220 | ok | 1.221 | 1.161-1.281 |
| Hexachlorobutadiene | 18.80 | 10.59 | 1.775 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.77 | 10.59 | 1.678 | ok | 1.678 | 1.618-1.738 |
| Hexane | 3.39 | 3.34 | 1.015 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.24 | 4.73 | 1.742 | ok | 1.741 | 1.681-1.801 |
| Iodomethane | 2.36 | 3.34 | 0.707 | ok | 0.706 | 0.646-0.766 |
| Isopropylbenzene | 14.50 | 10.59 | 1.369 | ok | 1.370 | 1.310-1.430 |
| Isopropyl Alcohol | 2.21 | 3.34 | 0.662 | ok | 0.661 | 0.601-0.721 |
| p-Isopropyltoluene | 17.25 | 10.59 | 1.629 | ok | 1.629 | 1.569-1.689 |
| Methylene chloride | 2.42 | 3.34 | 0.725 | ok | 0.725 | 0.665-0.785 |
| Methyl ethyl ketone | 3.05 | 3.34 | 0.913 | ok | 0.911 | 0.851-0.971 |
| Methyl Isobutyl Ketone | 6.48 | 4.73 | 1.370 | ok | 1.369 | 1.309-1.429 |
| Methyl Tert Butyl Ether | 2.89 | 3.34 | 0.865 | ok | 0.865 | 0.805-0.925 |
| Methylmethacrylate | 5.69 | 4.73 | 1.203 | ok | 1.203 | 1.143-1.263 |
| Naphthalene | 18.54 | 10.59 | 1.751 | ok | 1.752 | 1.692-1.812 |
| Nonane | 14.08 | 10.59 | 1.330 | ok | 1.330 | 1.270-1.390 |
| Octane | 9.56 | 4.73 | 2.021 | ok | 2.021 | 1.961-2.081 |
| Pentane | 2.30 | 3.34 | 0.689 | ok | 0.689 | 0.629-0.749 |
| n-Propylbenzene | 15.86 | 10.59 | 1.498 | ok | 1.498 | 1.438-1.558 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.71 | 3.34 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Styrene | 12.73 | 10.59 | 1.202 | ok | 1.204 | 1.144-1.264 |
| 1,1,1-Trichloroethane | 4.05 | 3.34 | 1.213 | ok | 1.211 | 1.151-1.271 |
| 1,1,1,2-Tetrachloroethane | 10.68 | 10.59 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.98 | 10.59 | 1.226 | ok | 1.227 | 1.167-1.287 |
| 1,1,2-Trichloroethane | 7.24 | 4.73 | 1.531 | ok | 1.530 | 1.470-1.590 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.59 | 1.746 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.26 | 10.59 | 1.252 | ok | 1.254 | 1.194-1.314 |
| 1,2,3-Trimethylbenzene | 17.18 | 10.59 | 1.622 | ok | 1.623 | 1.563-1.683 |
| 1,2,4-Trimethylbenzene | 16.80 | 10.59 | 1.586 | ok | 1.587 | 1.527-1.647 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.59 | 1.544 | ok | 1.544 | 1.484-1.604 |
| 2,2,4-Trimethylpentane | 5.44 | 4.73 | 1.150 | ok | 1.150 | 1.090-1.210 |
| Tertiary Butyl Alcohol | 2.40 | 3.34 | 0.719 | ok | 0.719 | 0.659-0.779 |
| Tetrachloroethylene | 9.41 | 4.73 | 1.989 | ok | 1.990 | 1.930-2.050 |
| Tetrahydrofuran | 3.66 | 3.34 | 1.096 | ok | 1.095 | 1.035-1.155 |
| Toluene | 7.61 | 4.73 | 1.609 | ok | 1.610 | 1.550-1.670 |
| Trichloroethylene | 5.34 | 4.73 | 1.129 | ok | 1.131 | 1.071-1.191 |
| Trichlorofluoromethane | 2.19 | 3.34 | 0.656 | ok | 0.656 | 0.596-0.716 |
| Vinyl chloride | 1.83 | 3.34 | 0.548 | ok | 0.548 | 0.488-0.608 |
| Vinyl Acetate | 2.93 | 3.34 | 0.877 | ok | 0.878 | 0.818-0.938 |
| m,p-Xylene | 12.00 | 10.59 | 1.133 | ok | 1.134 | 1.074-1.194 |
| o-Xylene | 12.95 | 10.59 | 1.223 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.34 | ok | 3.34 | 3.01-3.67 | 41167 | ok | 42592 | 25555-59629 |
| 1,4-Difluorobenzene | 4.73 | ok | 4.73 | 4.40-5.06 | 229434 | ok | 230692 | 138415-322969 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 156289 | ok | 168831 | 101299-236363 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.14 | 3.34 | 0.641 | ok | 0.641 | 0.581-0.701 |
| Acrolein | 2.10 | 3.34 | 0.629 | ok | 0.629 | 0.569-0.689 |
| Acrylonitrile | 2.27 | 3.34 | 0.680 | ok | 0.680 | 0.620-0.740 |
| Acetonitrile | 2.06 | 3.34 | 0.617 | ok | 0.618 | 0.558-0.678 |
| 1,3-Butadiene | 1.87 | 3.34 | 0.560 | ok | 0.559 | 0.499-0.619 |
| Benzene | 4.38 | 3.34 | 1.311 | ok | 1.312 | 1.252-1.372 |
| Bromobenzene | 14.38 | 10.58 | 1.359 | ok | 1.358 | 1.298-1.418 |
| Bromodichloromethane | 5.30 | 4.73 | 1.121 | ok | 1.120 | 1.060-1.180 |
| Bromoform | 11.83 | 10.58 | 1.118 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.93 | 3.34 | 0.578 | ok | 0.578 | 0.518-0.638 |
| Bromoethene | 2.07 | 3.34 | 0.620 | ok | 0.620 | 0.560-0.680 |
| n-Butane | 1.88 | 3.34 | 0.563 | ok | 0.563 | 0.503-0.623 |
| Benzyl Chloride | 16.89 | 10.58 | 1.596 | ok | 1.595 | 1.535-1.655 |
| n-Butylbenzene | 17.59 | 10.58 | 1.663 | ok | 1.662 | 1.602-1.722 |
| sec-Butylbenzene | 17.07 | 10.58 | 1.613 | ok | 1.613 | 1.553-1.673 |
| tert-Butylbenzene | 16.80 | 10.58 | 1.588 | ok | 1.587 | 1.527-1.647 |
| Carbon disulfide | 2.52 | 3.34 | 0.754 | ok | 0.755 | 0.695-0.815 |
| Chlorobenzene | 10.66 | 10.58 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.70 | 3.34 | 0.509 | ok | 0.510 | 0.450-0.570 |
| Chloroethane | 1.98 | 3.34 | 0.593 | ok | 0.593 | 0.533-0.653 |
| Chlorotrifluoroethene | 1.72 | 3.34 | 0.515 | ok | 0.515 | 0.455-0.575 |
| Chloroform | 3.42 | 3.34 | 1.024 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.77 | 3.34 | 0.530 | ok | 0.531 | 0.471-0.591 |
| 3-Chloropropene | 2.46 | 3.34 | 0.737 | ok | 0.737 | 0.677-0.797 |
| 2-Chlorotoluene | 15.52 | 10.58 | 1.467 | ok | 1.466 | 1.406-1.526 |
| Carbon tetrachloride | 4.50 | 3.34 | 1.347 | ok | 1.347 | 1.287-1.407 |
| Cyclohexane | 4.60 | 4.73 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.85 | 3.34 | 0.853 | ok | 0.854 | 0.794-0.914 |
| 1,1-Dichloroethylene | 2.38 | 3.34 | 0.713 | ok | 0.713 | 0.653-0.773 |
| 1,2-Dibromoethane (EDB) | 8.54 | 4.73 | 1.805 | ok | 1.806 | 1.746-1.866 |
| 1,2-Dichloroethane | 3.87 | 3.34 | 1.159 | ok | 1.159 | 1.099-1.219 |
| 1,2-Dichloropropane | 5.10 | 4.73 | 1.078 | ok | 1.078 | 1.018-1.138 |
| 1,3-Dichloropropane | 7.69 | 4.73 | 1.626 | ok | 1.625 | 1.565-1.685 |
| 1,4-Dioxane | 5.38 | 4.73 | 1.137 | ok | 1.138 | 1.078-1.198 |
| Dichlorodifluoromethane | 1.73 | 3.34 | 0.518 | ok | 0.518 | 0.458-0.578 |
| Dichlorofluoromethane | 2.00 | 3.34 | 0.599 | ok | 0.599 | 0.539-0.659 |
| Dibromochloromethane | 8.18 | 4.73 | 1.729 | ok | 1.730 | 1.670-1.790 |
| Dibromomethane | 5.05 | 4.73 | 1.068 | ok | 1.070 | 1.010-1.130 |
| trans-1,2-Dichloroethylene | 2.77 | 3.34 | 0.829 | ok | 0.830 | 0.770-0.890 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.25 | 3.34 | 0.973 | ok | 0.974 | 0.914-1.034 |
| cis-1,3-Dichloropropene | 6.35 | 4.73 | 1.342 | ok | 1.342 | 1.282-1.402 |
| m-Dichlorobenzene | 16.86 | 10.58 | 1.594 | ok | 1.593 | 1.533-1.653 |
| o-Dichlorobenzene | 17.23 | 10.58 | 1.629 | ok | 1.628 | 1.568-1.688 |
| p-Dichlorobenzene | 16.95 | 10.58 | 1.602 | ok | 1.601 | 1.541-1.661 |
| trans-1,3-Dichloropropene | 7.07 | 4.73 | 1.495 | ok | 1.494 | 1.434-1.554 |
| Di-Isopropyl ether | 3.40 | 3.34 | 1.018 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.87 | 4.73 | 1.030 | ok | 1.030 | 0.970-1.090 |
| 2,4-Dimethylpentane | 3.95 | 3.34 | 1.183 | ok | 1.184 | 1.124-1.244 |
| Ethanol | 2.01 | 3.34 | 0.602 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.57 | 10.58 | 1.094 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.41 | 3.34 | 1.021 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.24 | 4.73 | 1.108 | ok | 1.108 | 1.048-1.168 |
| 4-Ethyltoluene | 16.20 | 10.58 | 1.531 | ok | 1.530 | 1.470-1.590 |
| Freon 113 | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Freon 114 | 1.80 | 3.34 | 0.539 | ok | 0.539 | 0.479-0.599 |
| Freon 123 | 2.12 | 3.34 | 0.635 | ok | 0.635 | 0.575-0.695 |
| Freon 123A | 2.13 | 3.34 | 0.638 | ok | 0.638 | 0.578-0.698 |
| Freon 142B | 1.77 | 3.34 | 0.530 | ok | 0.530 | 0.470-0.590 |
| Freon 152A | 1.69 | 3.34 | 0.506 | ok | 0.507 | 0.447-0.567 |
| Heptane | 5.78 | 4.73 | 1.222 | ok | 1.221 | 1.161-1.281 |
| Hexachlorobutadiene | 18.80 | 10.58 | 1.777 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.77 | 10.58 | 1.680 | ok | 1.678 | 1.618-1.738 |
| Hexane | 3.39 | 3.34 | 1.015 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.23 | 4.73 | 1.740 | ok | 1.741 | 1.681-1.801 |
| Iodomethane | 2.36 | 3.34 | 0.707 | ok | 0.706 | 0.646-0.766 |
| Isopropylbenzene | 14.51 | 10.58 | 1.371 | ok | 1.370 | 1.310-1.430 |
| Isopropyl Alcohol | 2.21 | 3.34 | 0.662 | ok | 0.661 | 0.601-0.721 |
| p-Isopropyltoluene | 17.25 | 10.58 | 1.630 | ok | 1.629 | 1.569-1.689 |
| Methylene chloride | 2.42 | 3.34 | 0.725 | ok | 0.725 | 0.665-0.785 |
| Methyl ethyl ketone | 3.04 | 3.34 | 0.910 | ok | 0.911 | 0.851-0.971 |
| Methyl Isobutyl Ketone | 6.47 | 4.73 | 1.368 | ok | 1.369 | 1.309-1.429 |
| Methyl Tert Butyl Ether | 2.89 | 3.34 | 0.865 | ok | 0.865 | 0.805-0.925 |
| Methylmethacrylate | 5.69 | 4.73 | 1.203 | ok | 1.203 | 1.143-1.263 |
| Naphthalene | 18.54 | 10.58 | 1.752 | ok | 1.752 | 1.692-1.812 |
| Nonane | 14.09 | 10.58 | 1.332 | ok | 1.330 | 1.270-1.390 |
| Octane | 9.56 | 4.73 | 2.021 | ok | 2.021 | 1.961-2.081 |
| Pentane | 2.30 | 3.34 | 0.689 | ok | 0.689 | 0.629-0.749 |
| n-Propylbenzene | 15.86 | 10.58 | 1.499 | ok | 1.498 | 1.438-1.558 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.71 | 3.34 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Styrene | 12.75 | 10.58 | 1.205 | ok | 1.204 | 1.144-1.264 |
| 1,1,1-Trichloroethane | 4.04 | 3.34 | 1.210 | ok | 1.211 | 1.151-1.271 |
| 1,1,1,2-Tetrachloroethane | 10.68 | 10.58 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.99 | 10.58 | 1.228 | ok | 1.227 | 1.167-1.287 |
| 1,1,2-Trichloroethane | 7.23 | 4.73 | 1.529 | ok | 1.530 | 1.470-1.590 |
| 1,2,4-Trichlorobenzene | 18.49 | 10.58 | 1.748 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.27 | 10.58 | 1.254 | ok | 1.254 | 1.194-1.314 |
| 1,2,3-Trimethylbenzene | 17.18 | 10.58 | 1.624 | ok | 1.623 | 1.563-1.683 |
| 1,2,4-Trimethylbenzene | 16.80 | 10.58 | 1.588 | ok | 1.587 | 1.527-1.647 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.58 | 1.545 | ok | 1.544 | 1.484-1.604 |
| 2,2,4-Trimethylpentane | 5.44 | 4.73 | 1.150 | ok | 1.150 | 1.090-1.210 |
| Tertiary Butyl Alcohol | 2.40 | 3.34 | 0.719 | ok | 0.719 | 0.659-0.779 |
| Tetrachloroethylene | 9.41 | 4.73 | 1.989 | ok | 1.990 | 1.930-2.050 |
| Tetrahydrofuran | 3.66 | 3.34 | 1.096 | ok | 1.095 | 1.035-1.155 |
| Toluene | 7.61 | 4.73 | 1.609 | ok | 1.610 | 1.550-1.670 |
| Trichloroethylene | 5.35 | 4.73 | 1.131 | ok | 1.131 | 1.071-1.191 |
| Trichlorofluoromethane | 2.19 | 3.34 | 0.656 | ok | 0.656 | 0.596-0.716 |
| Vinyl chloride | 1.83 | 3.34 | 0.548 | ok | 0.548 | 0.488-0.608 |
| Vinyl Acetate | 2.93 | 3.34 | 0.877 | ok | 0.878 | 0.818-0.938 |
| m,p-Xylene | 12.01 | 10.58 | 1.135 | ok | 1.134 | 1.074-1.194 |
| o-Xylene | 12.96 | 10.58 | 1.225 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.34 | ok | 3.34 | 3.01-3.67 | 41869 | ok | 42592 | 25555-59629 |
| 1,4-Difluorobenzene | 4.73 | ok | 4.73 | 4.40-5.06 | 230215 | ok | 230692 | 138415-322969 |
| Chlorobenzene-D5 | 10.58 | ok | 10.59 | 10.26-10.92 | 162921 | ok | 168831 | 101299-236363 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.14 | 3.33 | 0.643 | ok | 0.641 | 0.581-0.701 |
| Acrolein | 2.10 | 3.33 | 0.631 | ok | 0.629 | 0.569-0.689 |
| Acrylonitrile | 2.27 | 3.33 | 0.682 | ok | 0.680 | 0.620-0.740 |
| Acetonitrile | 2.06 | 3.33 | 0.619 | ok | 0.618 | 0.558-0.678 |
| 1,3-Butadiene | 1.86 | 3.33 | 0.559 | ok | 0.559 | 0.499-0.619 |
| Benzene | 4.38 | 3.33 | 1.315 | ok | 1.312 | 1.252-1.372 |
| Bromobenzene | 14.38 | 10.59 | 1.358 | ok | 1.358 | 1.298-1.418 |
| Bromodichloromethane | 5.30 | 4.73 | 1.121 | ok | 1.120 | 1.060-1.180 |
| Bromoform | 11.83 | 10.59 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.93 | 3.33 | 0.580 | ok | 0.578 | 0.518-0.638 |
| Bromoethene | 2.07 | 3.33 | 0.622 | ok | 0.620 | 0.560-0.680 |
| n-Butane | 1.88 | 3.33 | 0.565 | ok | 0.563 | 0.503-0.623 |
| Benzyl Chloride | 16.89 | 10.59 | 1.595 | ok | 1.595 | 1.535-1.655 |
| n-Butylbenzene | 17.59 | 10.59 | 1.661 | ok | 1.662 | 1.602-1.722 |
| sec-Butylbenzene | 17.07 | 10.59 | 1.612 | ok | 1.613 | 1.553-1.673 |
| tert-Butylbenzene | 16.80 | 10.59 | 1.586 | ok | 1.587 | 1.527-1.647 |
| Carbon disulfide | 2.52 | 3.33 | 0.757 | ok | 0.755 | 0.695-0.815 |
| Chlorobenzene | 10.67 | 10.59 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.70 | 3.33 | 0.511 | ok | 0.510 | 0.450-0.570 |
| Chloroethane | 1.98 | 3.33 | 0.595 | ok | 0.593 | 0.533-0.653 |
| Chlorotrifluoroethene | 1.72 | 3.33 | 0.517 | ok | 0.515 | 0.455-0.575 |
| Chloroform | 3.42 | 3.33 | 1.027 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.77 | 3.33 | 0.532 | ok | 0.531 | 0.471-0.591 |
| 3-Chloropropene | 2.46 | 3.33 | 0.739 | ok | 0.737 | 0.677-0.797 |
| 2-Chlorotoluene | 15.52 | 10.59 | 1.466 | ok | 1.466 | 1.406-1.526 |
| Carbon tetrachloride | 4.50 | 3.33 | 1.351 | ok | 1.347 | 1.287-1.407 |
| Cyclohexane | 4.60 | 4.73 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.85 | 3.33 | 0.856 | ok | 0.854 | 0.794-0.914 |
| 1,1-Dichloroethylene | 2.38 | 3.33 | 0.715 | ok | 0.713 | 0.653-0.773 |
| 1,2-Dibromoethane (EDB) | 8.54 | 4.73 | 1.805 | ok | 1.806 | 1.746-1.866 |
| 1,2-Dichloroethane | 3.87 | 3.33 | 1.162 | ok | 1.159 | 1.099-1.219 |
| 1,2-Dichloropropane | 5.10 | 4.73 | 1.078 | ok | 1.078 | 1.018-1.138 |
| 1,3-Dichloropropane | 7.68 | 4.73 | 1.624 | ok | 1.625 | 1.565-1.685 |
| 1,4-Dioxane | 5.37 | 4.73 | 1.135 | ok | 1.138 | 1.078-1.198 |
| Dichlorodifluoromethane | 1.73 | 3.33 | 0.520 | ok | 0.518 | 0.458-0.578 |
| Dichlorofluoromethane | 2.00 | 3.33 | 0.601 | ok | 0.599 | 0.539-0.659 |
| Dibromochloromethane | 8.18 | 4.73 | 1.729 | ok | 1.730 | 1.670-1.790 |
| Dibromomethane | 5.06 | 4.73 | 1.070 | ok | 1.070 | 1.010-1.130 |
| trans-1,2-Dichloroethylene | 2.77 | 3.33 | 0.832 | ok | 0.830 | 0.770-0.890 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.25 | 3.33 | 0.976 | ok | 0.974 | 0.914-1.034 |
| cis-1,3-Dichloropropene | 6.35 | 4.73 | 1.342 | ok | 1.342 | 1.282-1.402 |
| m-Dichlorobenzene | 16.86 | 10.59 | 1.592 | ok | 1.593 | 1.533-1.653 |
| o-Dichlorobenzene | 17.24 | 10.59 | 1.628 | ok | 1.628 | 1.568-1.688 |
| p-Dichlorobenzene | 16.95 | 10.59 | 1.601 | ok | 1.601 | 1.541-1.661 |
| trans-1,3-Dichloropropene | 7.07 | 4.73 | 1.495 | ok | 1.494 | 1.434-1.554 |
| Di-Isopropyl ether | 3.40 | 3.33 | 1.021 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.88 | 4.73 | 1.032 | ok | 1.030 | 0.970-1.090 |
| 2,4-Dimethylpentane | 3.95 | 3.33 | 1.186 | ok | 1.184 | 1.124-1.244 |
| Ethanol | 2.01 | 3.33 | 0.604 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.57 | 10.59 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.41 | 3.33 | 1.024 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.24 | 4.73 | 1.108 | ok | 1.108 | 1.048-1.168 |
| 4-Ethyltoluene | 16.20 | 10.59 | 1.530 | ok | 1.530 | 1.470-1.590 |
| Freon 113 | 2.52 | 3.33 | 0.757 | ok | 0.754 | 0.694-0.814 |
| Freon 114 | 1.80 | 3.33 | 0.541 | ok | 0.539 | 0.479-0.599 |
| Freon 123 | 2.11 | 3.33 | 0.634 | ok | 0.635 | 0.575-0.695 |
| Freon 123A | 2.13 | 3.33 | 0.640 | ok | 0.638 | 0.578-0.698 |
| Freon 142B | 1.77 | 3.33 | 0.532 | ok | 0.530 | 0.470-0.590 |
| Freon 152A | 1.70 | 3.33 | 0.511 | ok | 0.507 | 0.447-0.567 |
| Heptane | 5.78 | 4.73 | 1.222 | ok | 1.221 | 1.161-1.281 |
| Hexachlorobutadiene | 18.80 | 10.59 | 1.775 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.77 | 10.59 | 1.678 | ok | 1.678 | 1.618-1.738 |
| Hexane | 3.39 | 3.33 | 1.018 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.23 | 4.73 | 1.740 | ok | 1.741 | 1.681-1.801 |
| Iodomethane | 2.35 | 3.33 | 0.706 | ok | 0.706 | 0.646-0.766 |
| Isopropylbenzene | 14.50 | 10.59 | 1.369 | ok | 1.370 | 1.310-1.430 |
| Isopropyl Alcohol | 2.21 | 3.33 | 0.664 | ok | 0.661 | 0.601-0.721 |
| p-Isopropyltoluene | 17.25 | 10.59 | 1.629 | ok | 1.629 | 1.569-1.689 |
| Methylene chloride | 2.42 | 3.33 | 0.727 | ok | 0.725 | 0.665-0.785 |
| Methyl ethyl ketone | 3.04 | 3.33 | 0.913 | ok | 0.911 | 0.851-0.971 |
| Methyl Isobutyl Ketone | 6.47 | 4.73 | 1.368 | ok | 1.369 | 1.309-1.429 |
| Methyl Tert Butyl Ether | 2.89 | 3.33 | 0.868 | ok | 0.865 | 0.805-0.925 |
| Methylmethacrylate | 5.69 | 4.73 | 1.203 | ok | 1.203 | 1.143-1.263 |
| Naphthalene | 18.55 | 10.59 | 1.752 | ok | 1.752 | 1.692-1.812 |
| Nonane | 14.09 | 10.59 | 1.331 | ok | 1.330 | 1.270-1.390 |
| Octane | 9.56 | 4.73 | 2.021 | ok | 2.021 | 1.961-2.081 |
| Pentane | 2.30 | 3.33 | 0.691 | ok | 0.689 | 0.629-0.749 |
| n-Propylbenzene | 15.86 | 10.59 | 1.498 | ok | 1.498 | 1.438-1.558 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.71 | 3.33 | 0.514 | ok | 0.512 | 0.452-0.572 |
| Styrene | 12.75 | 10.59 | 1.204 | ok | 1.204 | 1.144-1.264 |
| 1,1,1-Trichloroethane | 4.04 | 3.33 | 1.213 | ok | 1.211 | 1.151-1.271 |
| 1,1,1,2-Tetrachloroethane | 10.68 | 10.59 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.99 | 10.59 | 1.227 | ok | 1.227 | 1.167-1.287 |
| 1,1,2-Trichloroethane | 7.24 | 4.73 | 1.531 | ok | 1.530 | 1.470-1.590 |
| 1,2,4-Trichlorobenzene | 18.50 | 10.59 | 1.747 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.27 | 10.59 | 1.253 | ok | 1.254 | 1.194-1.314 |
| 1,2,3-Trimethylbenzene | 17.18 | 10.59 | 1.622 | ok | 1.623 | 1.563-1.683 |
| 1,2,4-Trimethylbenzene | 16.81 | 10.59 | 1.587 | ok | 1.587 | 1.527-1.647 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.59 | 1.544 | ok | 1.544 | 1.484-1.604 |
| 2,2,4-Trimethylpentane | 5.44 | 4.73 | 1.150 | ok | 1.150 | 1.090-1.210 |
| Tertiary Butyl Alcohol | 2.40 | 3.33 | 0.721 | ok | 0.719 | 0.659-0.779 |
| Tetrachloroethylene | 9.41 | 4.73 | 1.989 | ok | 1.990 | 1.930-2.050 |
| Tetrahydrofuran | 3.65 | 3.33 | 1.096 | ok | 1.095 | 1.035-1.155 |
| Toluene | 7.61 | 4.73 | 1.609 | ok | 1.610 | 1.550-1.670 |
| Trichloroethylene | 5.35 | 4.73 | 1.131 | ok | 1.131 | 1.071-1.191 |
| Trichlorofluoromethane | 2.19 | 3.33 | 0.658 | ok | 0.656 | 0.596-0.716 |
| Vinyl chloride | 1.83 | 3.33 | 0.550 | ok | 0.548 | 0.488-0.608 |
| Vinyl Acetate | 2.93 | 3.33 | 0.880 | ok | 0.878 | 0.818-0.938 |
| m,p-Xylene | 12.01 | 10.59 | 1.134 | ok | 1.134 | 1.074-1.194 |
| o-Xylene | 12.96 | 10.59 | 1.224 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.33 | ok | 3.34 | 3.01-3.67 | 40665 | ok | 42592 | 25555-59629 |
| 1,4-Difluorobenzene | 4.73 | ok | 4.73 | 4.40-5.06 | 227187 | ok | 230692 | 138415-322969 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 165536 | ok | 168831 | 101299-236363 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.14 | 3.34 | 0.641 | ok | 0.641 | 0.581-0.701 |
| Acrolein | 2.10 | 3.34 | 0.629 | ok | 0.629 | 0.569-0.689 |
| Acrylonitrile | 2.27 | 3.34 | 0.680 | ok | 0.680 | 0.620-0.740 |
| Acetonitrile | 2.06 | 3.34 | 0.617 | ok | 0.618 | 0.558-0.678 |
| 1,3-Butadiene | 1.87 | 3.34 | 0.560 | ok | 0.559 | 0.499-0.619 |
| Benzene | 4.38 | 3.34 | 1.311 | ok | 1.312 | 1.252-1.372 |
| Bromobenzene | 14.38 | 10.59 | 1.358 | ok | 1.358 | 1.298-1.418 |
| Bromodichloromethane | 5.30 | 4.73 | 1.121 | ok | 1.120 | 1.060-1.180 |
| Bromoform | 11.83 | 10.59 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.93 | 3.34 | 0.578 | ok | 0.578 | 0.518-0.638 |
| Bromoethene | 2.07 | 3.34 | 0.620 | ok | 0.620 | 0.560-0.680 |
| n-Butane | 1.88 | 3.34 | 0.563 | ok | 0.563 | 0.503-0.623 |
| Benzyl Chloride | 16.89 | 10.59 | 1.595 | ok | 1.595 | 1.535-1.655 |
| n-Butylbenzene | 17.59 | 10.59 | 1.661 | ok | 1.662 | 1.602-1.722 |
| sec-Butylbenzene | 17.07 | 10.59 | 1.612 | ok | 1.613 | 1.553-1.673 |
| tert-Butylbenzene | 16.80 | 10.59 | 1.586 | ok | 1.587 | 1.527-1.647 |
| Carbon disulfide | 2.52 | 3.34 | 0.754 | ok | 0.755 | 0.695-0.815 |
| Chlorobenzene | 10.67 | 10.59 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.71 | 3.34 | 0.512 | ok | 0.510 | 0.450-0.570 |
| Chloroethane | 1.98 | 3.34 | 0.593 | ok | 0.593 | 0.533-0.653 |
| Chlorotrifluoroethene | 1.72 | 3.34 | 0.515 | ok | 0.515 | 0.455-0.575 |
| Chloroform | 3.42 | 3.34 | 1.024 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.77 | 3.34 | 0.530 | ok | 0.531 | 0.471-0.591 |
| 3-Chloropropene | 2.46 | 3.34 | 0.737 | ok | 0.737 | 0.677-0.797 |
| 2-Chlorotoluene | 15.53 | 10.59 | 1.466 | ok | 1.466 | 1.406-1.526 |
| Carbon tetrachloride | 4.50 | 3.34 | 1.347 | ok | 1.347 | 1.287-1.407 |
| Cyclohexane | 4.60 | 4.73 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.85 | 3.34 | 0.853 | ok | 0.854 | 0.794-0.914 |
| 1,1-Dichloroethylene | 2.38 | 3.34 | 0.713 | ok | 0.713 | 0.653-0.773 |
| 1,2-Dibromoethane (EDB) | 8.54 | 4.73 | 1.805 | ok | 1.806 | 1.746-1.866 |
| 1,2-Dichloroethane | 3.87 | 3.34 | 1.159 | ok | 1.159 | 1.099-1.219 |
| 1,2-Dichloropropane | 5.10 | 4.73 | 1.078 | ok | 1.078 | 1.018-1.138 |
| 1,3-Dichloropropane | 7.69 | 4.73 | 1.626 | ok | 1.625 | 1.565-1.685 |
| 1,4-Dioxane | 5.37 | 4.73 | 1.135 | ok | 1.138 | 1.078-1.198 |
| Dichlorodifluoromethane | 1.73 | 3.34 | 0.518 | ok | 0.518 | 0.458-0.578 |
| Dichlorofluoromethane | 2.00 | 3.34 | 0.599 | ok | 0.599 | 0.539-0.659 |
| Dibromochloromethane | 8.19 | 4.73 | 1.732 | ok | 1.730 | 1.670-1.790 |
| Dibromomethane | 5.06 | 4.73 | 1.070 | ok | 1.070 | 1.010-1.130 |
| trans-1,2-Dichloroethylene | 2.77 | 3.34 | 0.829 | ok | 0.830 | 0.770-0.890 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.25 | 3.34 | 0.973 | ok | 0.974 | 0.914-1.034 |
| cis-1,3-Dichloropropene | 6.35 | 4.73 | 1.342 | ok | 1.342 | 1.282-1.402 |
| m-Dichlorobenzene | 16.87 | 10.59 | 1.593 | ok | 1.593 | 1.533-1.653 |
| o-Dichlorobenzene | 17.24 | 10.59 | 1.628 | ok | 1.628 | 1.568-1.688 |
| p-Dichlorobenzene | 16.95 | 10.59 | 1.601 | ok | 1.601 | 1.541-1.661 |
| trans-1,3-Dichloropropene | 7.07 | 4.73 | 1.495 | ok | 1.494 | 1.434-1.554 |
| Di-Isopropyl ether | 3.40 | 3.34 | 1.018 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.87 | 4.73 | 1.030 | ok | 1.030 | 0.970-1.090 |
| 2,4-Dimethylpentane | 3.96 | 3.34 | 1.186 | ok | 1.184 | 1.124-1.244 |
| Ethanol | 2.00 | 3.34 | 0.599 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.57 | 10.59 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.41 | 3.34 | 1.021 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.24 | 4.73 | 1.108 | ok | 1.108 | 1.048-1.168 |
| 4-Ethyltoluene | 16.21 | 10.59 | 1.531 | ok | 1.530 | 1.470-1.590 |
| Freon 113 | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Freon 114 | 1.80 | 3.34 | 0.539 | ok | 0.539 | 0.479-0.599 |
| Freon 123 | 2.12 | 3.34 | 0.635 | ok | 0.635 | 0.575-0.695 |
| Freon 123A | 2.13 | 3.34 | 0.638 | ok | 0.638 | 0.578-0.698 |
| Freon 142B | 1.77 | 3.34 | 0.530 | ok | 0.530 | 0.470-0.590 |
| Freon 152A | 1.70 | 3.34 | 0.509 | ok | 0.507 | 0.447-0.567 |
| Heptane | 5.78 | 4.73 | 1.222 | ok | 1.221 | 1.161-1.281 |
| Hexachlorobutadiene | 18.80 | 10.59 | 1.775 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.77 | 10.59 | 1.678 | ok | 1.678 | 1.618-1.738 |
| Hexane | 3.39 | 3.34 | 1.015 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.22 | 4.73 | 1.738 | ok | 1.741 | 1.681-1.801 |
| Iodomethane | 2.36 | 3.34 | 0.707 | ok | 0.706 | 0.646-0.766 |
| Isopropylbenzene | 14.50 | 10.59 | 1.369 | ok | 1.370 | 1.310-1.430 |
| Isopropyl Alcohol | 2.21 | 3.34 | 0.662 | ok | 0.661 | 0.601-0.721 |
| p-Isopropyltoluene | 17.25 | 10.59 | 1.629 | ok | 1.629 | 1.569-1.689 |
| Methylene chloride | 2.42 | 3.34 | 0.725 | ok | 0.725 | 0.665-0.785 |
| Methyl ethyl ketone | 3.04 | 3.34 | 0.910 | ok | 0.911 | 0.851-0.971 |
| Methyl Isobutyl Ketone | 6.47 | 4.73 | 1.368 | ok | 1.369 | 1.309-1.429 |
| Methyl Tert Butyl Ether | 2.89 | 3.34 | 0.865 | ok | 0.865 | 0.805-0.925 |
| Methylmethacrylate | 5.69 | 4.73 | 1.203 | ok | 1.203 | 1.143-1.263 |
| Naphthalene | 18.55 | 10.59 | 1.752 | ok | 1.752 | 1.692-1.812 |
| Nonane | 14.09 | 10.59 | 1.331 | ok | 1.330 | 1.270-1.390 |
| Octane | 9.56 | 4.73 | 2.021 | ok | 2.021 | 1.961-2.081 |
| Pentane | 2.30 | 3.34 | 0.689 | ok | 0.689 | 0.629-0.749 |
| n-Propylbenzene | 15.86 | 10.59 | 1.498 | ok | 1.498 | 1.438-1.558 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.71 | 3.34 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Styrene | 12.75 | 10.59 | 1.204 | ok | 1.204 | 1.144-1.264 |
| 1,1,1-Trichloroethane | 4.04 | 3.34 | 1.210 | ok | 1.211 | 1.151-1.271 |
| 1,1,1,2-Tetrachloroethane | 10.68 | 10.59 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.99 | 10.59 | 1.227 | ok | 1.227 | 1.167-1.287 |
| 1,1,2-Trichloroethane | 7.24 | 4.73 | 1.531 | ok | 1.530 | 1.470-1.590 |
| 1,2,4-Trichlorobenzene | 18.50 | 10.59 | 1.747 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.28 | 10.59 | 1.254 | ok | 1.254 | 1.194-1.314 |
| 1,2,3-Trimethylbenzene | 17.19 | 10.59 | 1.623 | ok | 1.623 | 1.563-1.683 |
| 1,2,4-Trimethylbenzene | 16.81 | 10.59 | 1.587 | ok | 1.587 | 1.527-1.647 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.59 | 1.544 | ok | 1.544 | 1.484-1.604 |
| 2,2,4-Trimethylpentane | 5.44 | 4.73 | 1.150 | ok | 1.150 | 1.090-1.210 |
| Tertiary Butyl Alcohol | 2.39 | 3.34 | 0.716 | ok | 0.719 | 0.659-0.779 |
| Tetrachloroethylene | 9.41 | 4.73 | 1.989 | ok | 1.990 | 1.930-2.050 |
| Tetrahydrofuran | 3.65 | 3.34 | 1.093 | ok | 1.095 | 1.035-1.155 |
| Toluene | 7.61 | 4.73 | 1.609 | ok | 1.610 | 1.550-1.670 |
| Trichloroethylene | 5.35 | 4.73 | 1.131 | ok | 1.131 | 1.071-1.191 |
| Trichlorofluoromethane | 2.19 | 3.34 | 0.656 | ok | 0.656 | 0.596-0.716 |
| Vinyl chloride | 1.83 | 3.34 | 0.548 | ok | 0.548 | 0.488-0.608 |
| Vinyl Acetate | 2.93 | 3.34 | 0.877 | ok | 0.878 | 0.818-0.938 |
| m,p-Xylene | 12.01 | 10.59 | 1.134 | ok | 1.134 | 1.074-1.194 |
| o-Xylene | 12.96 | 10.59 | 1.224 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.34 | ok | 3.34 | 3.01-3.67 | 43498 | ok | 42592 | 25555-59629 |
| 1,4-Difluorobenzene | 4.73 | ok | 4.73 | 4.40-5.06 | 234032 | ok | 230692 | 138415-322969 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 175266 | ok | 168831 | 101299-236363 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.14 | 3.34 | 0.641 | ok | 0.641 | 0.581-0.701 |
| Acrolein | 2.10 | 3.34 | 0.629 | ok | 0.629 | 0.569-0.689 |
| Acrylonitrile | 2.27 | 3.34 | 0.680 | ok | 0.680 | 0.620-0.740 |
| Acetonitrile | 2.06 | 3.34 | 0.617 | ok | 0.618 | 0.558-0.678 |
| 1,3-Butadiene | 1.86 | 3.34 | 0.557 | ok | 0.559 | 0.499-0.619 |
| Benzene | 4.38 | 3.34 | 1.311 | ok | 1.312 | 1.252-1.372 |
| Bromobenzene | 14.39 | 10.59 | 1.359 | ok | 1.358 | 1.298-1.418 |
| Bromodichloromethane | 5.30 | 4.73 | 1.121 | ok | 1.120 | 1.060-1.180 |
| Bromoform | 11.84 | 10.59 | 1.118 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.93 | 3.34 | 0.578 | ok | 0.578 | 0.518-0.638 |
| Bromoethene | 2.07 | 3.34 | 0.620 | ok | 0.620 | 0.560-0.680 |
| n-Butane | 1.88 | 3.34 | 0.563 | ok | 0.563 | 0.503-0.623 |
| Benzyl Chloride | 16.90 | 10.59 | 1.596 | ok | 1.595 | 1.535-1.655 |
| n-Butylbenzene | 17.60 | 10.59 | 1.662 | ok | 1.662 | 1.602-1.722 |
| sec-Butylbenzene | 17.08 | 10.59 | 1.613 | ok | 1.613 | 1.553-1.673 |
| tert-Butylbenzene | 16.81 | 10.59 | 1.587 | ok | 1.587 | 1.527-1.647 |
| Carbon disulfide | 2.52 | 3.34 | 0.754 | ok | 0.755 | 0.695-0.815 |
| Chlorobenzene | 10.67 | 10.59 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.70 | 3.34 | 0.509 | ok | 0.510 | 0.450-0.570 |
| Chloroethane | 1.98 | 3.34 | 0.593 | ok | 0.593 | 0.533-0.653 |
| Chlorotrifluoroethene | 1.72 | 3.34 | 0.515 | ok | 0.515 | 0.455-0.575 |
| Chloroform | 3.42 | 3.34 | 1.024 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.77 | 3.34 | 0.530 | ok | 0.531 | 0.471-0.591 |
| 3-Chloropropene | 2.46 | 3.34 | 0.737 | ok | 0.737 | 0.677-0.797 |
| 2-Chlorotoluene | 15.53 | 10.59 | 1.466 | ok | 1.466 | 1.406-1.526 |
| Carbon tetrachloride | 4.50 | 3.34 | 1.347 | ok | 1.347 | 1.287-1.407 |
| Cyclohexane | 4.60 | 4.73 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.85 | 3.34 | 0.853 | ok | 0.854 | 0.794-0.914 |
| 1,1-Dichloroethylene | 2.38 | 3.34 | 0.713 | ok | 0.713 | 0.653-0.773 |
| 1,2-Dibromoethane (EDB) | 8.55 | 4.73 | 1.808 | ok | 1.806 | 1.746-1.866 |
| 1,2-Dichloroethane | 3.87 | 3.34 | 1.159 | ok | 1.159 | 1.099-1.219 |
| 1,2-Dichloropropane | 5.10 | 4.73 | 1.078 | ok | 1.078 | 1.018-1.138 |
| 1,3-Dichloropropane | 7.68 | 4.73 | 1.624 | ok | 1.625 | 1.565-1.685 |
| 1,4-Dioxane | 5.37 | 4.73 | 1.135 | ok | 1.138 | 1.078-1.198 |
| Dichlorodifluoromethane | 1.73 | 3.34 | 0.518 | ok | 0.518 | 0.458-0.578 |
| Dichlorofluoromethane | 2.00 | 3.34 | 0.599 | ok | 0.599 | 0.539-0.659 |
| Dibromochloromethane | 8.19 | 4.73 | 1.732 | ok | 1.730 | 1.670-1.790 |
| Dibromomethane | 5.06 | 4.73 | 1.070 | ok | 1.070 | 1.010-1.130 |
| trans-1,2-Dichloroethylene | 2.77 | 3.34 | 0.829 | ok | 0.830 | 0.770-0.890 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.25 | 3.34 | 0.973 | ok | 0.974 | 0.914-1.034 |
| cis-1,3-Dichloropropene | 6.35 | 4.73 | 1.342 | ok | 1.342 | 1.282-1.402 |
| m-Dichlorobenzene | 16.87 | 10.59 | 1.593 | ok | 1.593 | 1.533-1.653 |
| o-Dichlorobenzene | 17.24 | 10.59 | 1.628 | ok | 1.628 | 1.568-1.688 |
| p-Dichlorobenzene | 16.95 | 10.59 | 1.601 | ok | 1.601 | 1.541-1.661 |
| trans-1,3-Dichloropropene | 7.07 | 4.73 | 1.495 | ok | 1.494 | 1.434-1.554 |
| Di-Isopropyl ether | 3.40 | 3.34 | 1.018 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.87 | 4.73 | 1.030 | ok | 1.030 | 0.970-1.090 |
| 2,4-Dimethylpentane | 3.96 | 3.34 | 1.186 | ok | 1.184 | 1.124-1.244 |
| Ethanol | 2.00 | 3.34 | 0.599 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.57 | 10.59 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.41 | 3.34 | 1.021 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.24 | 4.73 | 1.108 | ok | 1.108 | 1.048-1.168 |
| 4-Ethyltoluene | 16.21 | 10.59 | 1.531 | ok | 1.530 | 1.470-1.590 |
| Freon 113 | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Freon 114 | 1.80 | 3.34 | 0.539 | ok | 0.539 | 0.479-0.599 |
| Freon 123 | 2.12 | 3.34 | 0.635 | ok | 0.635 | 0.575-0.695 |
| Freon 123A | 2.13 | 3.34 | 0.638 | ok | 0.638 | 0.578-0.698 |
| Freon 142B | 1.77 | 3.34 | 0.530 | ok | 0.530 | 0.470-0.590 |
| Freon 152A | 1.69 | 3.34 | 0.506 | ok | 0.507 | 0.447-0.567 |
| Heptane | 5.78 | 4.73 | 1.222 | ok | 1.221 | 1.161-1.281 |
| Hexachlorobutadiene | 18.80 | 10.59 | 1.775 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.77 | 10.59 | 1.678 | ok | 1.678 | 1.618-1.738 |
| Hexane | 3.39 | 3.34 | 1.015 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.23 | 4.73 | 1.740 | ok | 1.741 | 1.681-1.801 |
| Iodomethane | 2.35 | 3.34 | 0.704 | ok | 0.706 | 0.646-0.766 |
| Isopropylbenzene | 14.51 | 10.59 | 1.370 | ok | 1.370 | 1.310-1.430 |
| Isopropyl Alcohol | 2.20 | 3.34 | 0.659 | ok | 0.661 | 0.601-0.721 |
| p-Isopropyltoluene | 17.25 | 10.59 | 1.629 | ok | 1.629 | 1.569-1.689 |
| Methylene chloride | 2.42 | 3.34 | 0.725 | ok | 0.725 | 0.665-0.785 |
| Methyl ethyl ketone | 3.04 | 3.34 | 0.910 | ok | 0.911 | 0.851-0.971 |
| Methyl Isobutyl Ketone | 6.47 | 4.73 | 1.368 | ok | 1.369 | 1.309-1.429 |
| Methyl Tert Butyl Ether | 2.88 | 3.34 | 0.862 | ok | 0.865 | 0.805-0.925 |
| Methylmethacrylate | 5.69 | 4.73 | 1.203 | ok | 1.203 | 1.143-1.263 |
| Naphthalene | 18.55 | 10.59 | 1.752 | ok | 1.752 | 1.692-1.812 |
| Nonane | 14.10 | 10.59 | 1.331 | ok | 1.330 | 1.270-1.390 |
| Octane | 9.56 | 4.73 | 2.021 | ok | 2.021 | 1.961-2.081 |
| Pentane | 2.30 | 3.34 | 0.689 | ok | 0.689 | 0.629-0.749 |
| n-Propylbenzene | 15.86 | 10.59 | 1.498 | ok | 1.498 | 1.438-1.558 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.71 | 3.34 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Styrene | 12.75 | 10.59 | 1.204 | ok | 1.204 | 1.144-1.264 |
| 1,1,1-Trichloroethane | 4.04 | 3.34 | 1.210 | ok | 1.211 | 1.151-1.271 |
| 1,1,1,2-Tetrachloroethane | 10.69 | 10.59 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.00 | 10.59 | 1.228 | ok | 1.227 | 1.167-1.287 |
| 1,1,2-Trichloroethane | 7.24 | 4.73 | 1.531 | ok | 1.530 | 1.470-1.590 |
| 1,2,4-Trichlorobenzene | 18.50 | 10.59 | 1.747 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.28 | 10.59 | 1.254 | ok | 1.254 | 1.194-1.314 |
| 1,2,3-Trimethylbenzene | 17.19 | 10.59 | 1.623 | ok | 1.623 | 1.563-1.683 |
| 1,2,4-Trimethylbenzene | 16.81 | 10.59 | 1.587 | ok | 1.587 | 1.527-1.647 |
| 1,3,5-Trimethylbenzene | 16.36 | 10.59 | 1.545 | ok | 1.544 | 1.484-1.604 |
| 2,2,4-Trimethylpentane | 5.44 | 4.73 | 1.150 | ok | 1.150 | 1.090-1.210 |
| Tertiary Butyl Alcohol | 2.39 | 3.34 | 0.716 | ok | 0.719 | 0.659-0.779 |
| Tetrachloroethylene | 9.42 | 4.73 | 1.992 | ok | 1.990 | 1.930-2.050 |
| Tetrahydrofuran | 3.65 | 3.34 | 1.093 | ok | 1.095 | 1.035-1.155 |
| Toluene | 7.62 | 4.73 | 1.611 | ok | 1.610 | 1.550-1.670 |
| Trichloroethylene | 5.35 | 4.73 | 1.131 | ok | 1.131 | 1.071-1.191 |
| Trichlorofluoromethane | 2.19 | 3.34 | 0.656 | ok | 0.656 | 0.596-0.716 |
| Vinyl chloride | 1.83 | 3.34 | 0.548 | ok | 0.548 | 0.488-0.608 |
| Vinyl Acetate | 2.93 | 3.34 | 0.877 | ok | 0.878 | 0.818-0.938 |
| m,p-Xylene | 12.02 | 10.59 | 1.135 | ok | 1.134 | 1.074-1.194 |
| o-Xylene | 12.97 | 10.59 | 1.225 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.34 | ok | 3.34 | 3.01-3.67 | 44539 | ok | 42592 | 25555-59629 |
| 1,4-Difluorobenzene | 4.73 | ok | 4.73 | 4.40-5.06 | 238139 | ok | 230692 | 138415-322969 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 181960 | ok | 168831 | 101299-236363 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.14 | 3.34 | 0.641 | ok | 0.641 | 0.581-0.701 |
| Acrolein | 2.10 | 3.34 | 0.629 | ok | 0.629 | 0.569-0.689 |
| Acrylonitrile | 2.27 | 3.34 | 0.680 | ok | 0.680 | 0.620-0.740 |
| Acetonitrile | 2.06 | 3.34 | 0.617 | ok | 0.618 | 0.558-0.678 |
| 1,3-Butadiene | 1.86 | 3.34 | 0.557 | ok | 0.559 | 0.499-0.619 |
| Benzene | 4.38 | 3.34 | 1.311 | ok | 1.312 | 1.252-1.372 |
| Bromobenzene | 14.39 | 10.59 | 1.359 | ok | 1.358 | 1.298-1.418 |
| Bromodichloromethane | 5.30 | 4.73 | 1.121 | ok | 1.120 | 1.060-1.180 |
| Bromoform | 11.84 | 10.59 | 1.118 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.93 | 3.34 | 0.578 | ok | 0.578 | 0.518-0.638 |
| Bromoethene | 2.07 | 3.34 | 0.620 | ok | 0.620 | 0.560-0.680 |
| n-Butane | 1.88 | 3.34 | 0.563 | ok | 0.563 | 0.503-0.623 |
| Benzyl Chloride | 16.90 | 10.59 | 1.596 | ok | 1.595 | 1.535-1.655 |
| n-Butylbenzene | 17.60 | 10.59 | 1.662 | ok | 1.662 | 1.602-1.722 |
| sec-Butylbenzene | 17.08 | 10.59 | 1.613 | ok | 1.613 | 1.553-1.673 |
| tert-Butylbenzene | 16.81 | 10.59 | 1.587 | ok | 1.587 | 1.527-1.647 |
| Carbon disulfide | 2.52 | 3.34 | 0.754 | ok | 0.755 | 0.695-0.815 |
| Chlorobenzene | 10.67 | 10.59 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.70 | 3.34 | 0.509 | ok | 0.510 | 0.450-0.570 |
| Chloroethane | 1.98 | 3.34 | 0.593 | ok | 0.593 | 0.533-0.653 |
| Chlorotrifluoroethene | 1.72 | 3.34 | 0.515 | ok | 0.515 | 0.455-0.575 |
| Chloroform | 3.42 | 3.34 | 1.024 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.77 | 3.34 | 0.530 | ok | 0.531 | 0.471-0.591 |
| 3-Chloropropene | 2.46 | 3.34 | 0.737 | ok | 0.737 | 0.677-0.797 |
| 2-Chlorotoluene | 15.54 | 10.59 | 1.467 | ok | 1.466 | 1.406-1.526 |
| Carbon tetrachloride | 4.50 | 3.34 | 1.347 | ok | 1.347 | 1.287-1.407 |
| Cyclohexane | 4.60 | 4.73 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.85 | 3.34 | 0.853 | ok | 0.854 | 0.794-0.914 |
| 1,1-Dichloroethylene | 2.38 | 3.34 | 0.713 | ok | 0.713 | 0.653-0.773 |
| 1,2-Dibromoethane (EDB) | 8.55 | 4.73 | 1.808 | ok | 1.806 | 1.746-1.866 |
| 1,2-Dichloroethane | 3.87 | 3.34 | 1.159 | ok | 1.159 | 1.099-1.219 |
| 1,2-Dichloropropane | 5.10 | 4.73 | 1.078 | ok | 1.078 | 1.018-1.138 |
| 1,3-Dichloropropane | 7.69 | 4.73 | 1.626 | ok | 1.625 | 1.565-1.685 |
| 1,4-Dioxane | 5.37 | 4.73 | 1.135 | ok | 1.138 | 1.078-1.198 |
| Dichlorodifluoromethane | 1.73 | 3.34 | 0.518 | ok | 0.518 | 0.458-0.578 |
| Dichlorofluoromethane | 2.00 | 3.34 | 0.599 | ok | 0.599 | 0.539-0.659 |
| Dibromochloromethane | 8.19 | 4.73 | 1.732 | ok | 1.730 | 1.670-1.790 |
| Dibromomethane | 5.06 | 4.73 | 1.070 | ok | 1.070 | 1.010-1.130 |
| trans-1,2-Dichloroethylene | 2.77 | 3.34 | 0.829 | ok | 0.830 | 0.770-0.890 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 3.25 | 3.34 | 0.973 | ok | 0.974 | 0.914-1.034 |
| cis-1,3-Dichloropropene | 6.35 | 4.73 | 1.342 | ok | 1.342 | 1.282-1.402 |
| m-Dichlorobenzene | 16.87 | 10.59 | 1.593 | ok | 1.593 | 1.533-1.653 |
| o-Dichlorobenzene | 17.24 | 10.59 | 1.628 | ok | 1.628 | 1.568-1.688 |
| p-Dichlorobenzene | 16.95 | 10.59 | 1.601 | ok | 1.601 | 1.541-1.661 |
| trans-1,3-Dichloropropene | 7.07 | 4.73 | 1.495 | ok | 1.494 | 1.434-1.554 |
| Di-Isopropyl ether | 3.40 | 3.34 | 1.018 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.87 | 4.73 | 1.030 | ok | 1.030 | 0.970-1.090 |
| 2,4-Dimethylpentane | 3.95 | 3.34 | 1.183 | ok | 1.184 | 1.124-1.244 |
| Ethanol | 2.00 | 3.34 | 0.599 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.58 | 10.59 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.41 | 3.34 | 1.021 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.24 | 4.73 | 1.108 | ok | 1.108 | 1.048-1.168 |
| 4-Ethyltoluene | 16.21 | 10.59 | 1.531 | ok | 1.530 | 1.470-1.590 |
| Freon 113 | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Freon 114 | 1.80 | 3.34 | 0.539 | ok | 0.539 | 0.479-0.599 |
| Freon 123 | 2.12 | 3.34 | 0.635 | ok | 0.635 | 0.575-0.695 |
| Freon 123A | 2.13 | 3.34 | 0.638 | ok | 0.638 | 0.578-0.698 |
| Freon 142B | 1.77 | 3.34 | 0.530 | ok | 0.530 | 0.470-0.590 |
| Freon 152A | 1.69 | 3.34 | 0.506 | ok | 0.507 | 0.447-0.567 |
| Heptane | 5.78 | 4.73 | 1.222 | ok | 1.221 | 1.161-1.281 |
| Hexachlorobutadiene | 18.80 | 10.59 | 1.775 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.77 | 10.59 | 1.678 | ok | 1.678 | 1.618-1.738 |
| Hexane | 3.39 | 3.34 | 1.015 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.23 | 4.73 | 1.740 | ok | 1.741 | 1.681-1.801 |
| Iodomethane | 2.35 | 3.34 | 0.704 | ok | 0.706 | 0.646-0.766 |
| Isopropylbenzene | 14.51 | 10.59 | 1.370 | ok | 1.370 | 1.310-1.430 |
| Isopropyl Alcohol | 2.20 | 3.34 | 0.659 | ok | 0.661 | 0.601-0.721 |
| p-Isopropyltoluene | 17.25 | 10.59 | 1.629 | ok | 1.629 | 1.569-1.689 |
| Methylene chloride | 2.42 | 3.34 | 0.725 | ok | 0.725 | 0.665-0.785 |
| Methyl ethyl ketone | 3.04 | 3.34 | 0.910 | ok | 0.911 | 0.851-0.971 |
| Methyl Isobutyl Ketone | 6.48 | 4.73 | 1.370 | ok | 1.369 | 1.309-1.429 |
| Methyl Tert Butyl Ether | 2.88 | 3.34 | 0.862 | ok | 0.865 | 0.805-0.925 |
| Methylmethacrylate | 5.69 | 4.73 | 1.203 | ok | 1.203 | 1.143-1.263 |
| Naphthalene | 18.55 | 10.59 | 1.752 | ok | 1.752 | 1.692-1.812 |
| Nonane | 14.10 | 10.59 | 1.331 | ok | 1.330 | 1.270-1.390 |
| Octane | 9.56 | 4.73 | 2.021 | ok | 2.021 | 1.961-2.081 |
| Pentane | 2.30 | 3.34 | 0.689 | ok | 0.689 | 0.629-0.749 |
| n-Propylbenzene | 15.87 | 10.59 | 1.499 | ok | 1.498 | 1.438-1.558 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Propylene | 1.71 | 3.34 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Styrene | 12.76 | 10.59 | 1.205 | ok | 1.204 | 1.144-1.264 |
| 1,1,1-Trichloroethane | 4.04 | 3.34 | 1.210 | ok | 1.211 | 1.151-1.271 |
| 1,1,1,2-Tetrachloroethane | 10.69 | 10.59 | 1.009 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 13.00 | 10.59 | 1.228 | ok | 1.227 | 1.167-1.287 |
| 1,1,2-Trichloroethane | 7.24 | 4.73 | 1.531 | ok | 1.530 | 1.470-1.590 |
| 1,2,4-Trichlorobenzene | 18.50 | 10.59 | 1.747 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.29 | 10.59 | 1.255 | ok | 1.254 | 1.194-1.314 |
| 1,2,3-Trimethylbenzene | 17.19 | 10.59 | 1.623 | ok | 1.623 | 1.563-1.683 |
| 1,2,4-Trimethylbenzene | 16.82 | 10.59 | 1.588 | ok | 1.587 | 1.527-1.647 |
| 1,3,5-Trimethylbenzene | 16.36 | 10.59 | 1.545 | ok | 1.544 | 1.484-1.604 |
| 2,2,4-Trimethylpentane | 5.44 | 4.73 | 1.150 | ok | 1.150 | 1.090-1.210 |
| Tertiary Butyl Alcohol | 2.39 | 3.34 | 0.716 | ok | 0.719 | 0.659-0.779 |
| Tetrachloroethylene | 9.41 | 4.73 | 1.989 | ok | 1.990 | 1.930-2.050 |
| Tetrahydrofuran | 3.65 | 3.34 | 1.093 | ok | 1.095 | 1.035-1.155 |
| Toluene | 7.62 | 4.73 | 1.611 | ok | 1.610 | 1.550-1.670 |
| Trichloroethylene | 5.35 | 4.73 | 1.131 | ok | 1.131 | 1.071-1.191 |
| Trichlorofluoromethane | 2.19 | 3.34 | 0.656 | ok | 0.656 | 0.596-0.716 |
| Vinyl chloride | 1.83 | 3.34 | 0.548 | ok | 0.548 | 0.488-0.608 |
| Vinyl Acetate | 2.93 | 3.34 | 0.877 | ok | 0.878 | 0.818-0.938 |
| m,p-Xylene | 12.02 | 10.59 | 1.135 | ok | 1.134 | 1.074-1.194 |
| o-Xylene | 12.97 | 10.59 | 1.225 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.34 | ok | 3.34 | 3.01-3.67 | 46143 | ok | 42592 | 25555-59629 |
| 1,4-Difluorobenzene | 4.73 | ok | 4.73 | 4.40-5.06 | 249654 | ok | 230692 | 138415-322969 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 186821 | ok | 168831 | 101299-236363 |

# Initial Calibration Retention Time/Internal Standard Area Summary

**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Benzene | 4.38 | 3.34 | 1.311 | ok | 1.312 | 1.252-1.372 |
| Bromobenzene | 14.37 | 10.59 | 1.357 | ok | 1.358 | 1.298-1.418 |
| Bromodichloromethane | 5.30 | 4.73 | 1.121 | ok | 1.120 | 1.060-1.180 |
| Bromoform | 11.83 | 10.59 | 1.117 | ok | 1.117 | 1.057-1.177 |
| Carbon disulfide | 2.52 | 3.34 | 0.754 | ok | 0.755 | 0.695-0.815 |
| Chlorobenzene | 10.66 | 10.59 | 1.007 | ok | 1.007 | 0.947-1.067 |
| Chloroform | 3.42 | 3.34 | 1.024 | ok | 1.024 | 0.964-1.084 |
| 3-Chloropropene | 2.47 | 3.34 | 0.740 | ok | 0.737 | 0.677-0.797 |
| Carbon tetrachloride | 4.50 | 3.34 | 1.347 | ok | 1.347 | 1.287-1.407 |
| 1,1-Dichloroethane | 2.85 | 3.34 | 0.853 | ok | 0.854 | 0.794-0.914 |
| 1,2-Dibromoethane (EDB) | 8.54 | 4.73 | 1.805 | ok | 1.806 | 1.746-1.866 |
| 1,2-Dichloroethane | 3.87 | 3.34 | 1.159 | ok | 1.159 | 1.099-1.219 |
| 1,2-Dichloropropane | 5.10 | 4.73 | 1.078 | ok | 1.078 | 1.018-1.138 |
| 1,3-Dichloropropane | 7.68 | 4.73 | 1.624 | ok | 1.625 | 1.565-1.685 |
| Dichlorodifluoromethane | 1.73 | 3.34 | 0.518 | ok | 0.518 | 0.458-0.578 |
| Dichlorofluoromethane | 2.00 | 3.34 | 0.599 | ok | 0.599 | 0.539-0.659 |
| Dibromochloromethane | 8.18 | 4.73 | 1.729 | ok | 1.730 | 1.670-1.790 |
| cis-1,2-Dichloroethylene | 3.26 | 3.34 | 0.976 | ok | 0.974 | 0.914-1.034 |
| cis-1,3-Dichloropropene | 6.35 | 4.73 | 1.342 | ok | 1.342 | 1.282-1.402 |
| m-Dichlorobenzene | 16.86 | 10.59 | 1.592 | ok | 1.593 | 1.533-1.653 |
| o-Dichlorobenzene | 17.23 | 10.59 | 1.627 | ok | 1.628 | 1.568-1.688 |
| p-Dichlorobenzene | 16.95 | 10.59 | 1.601 | ok | 1.601 | 1.541-1.661 |
| trans-1,3-Dichloropropene | 7.07 | 4.73 | 1.495 | ok | 1.494 | 1.434-1.554 |
| 2,4-Dimethylpentane | 3.95 | 3.34 | 1.183 | ok | 1.184 | 1.124-1.244 |
| Ethylbenzene | 11.58 | 10.59 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.41 | 3.34 | 1.021 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.25 | 4.73 | 1.110 | ok | 1.108 | 1.048-1.168 |
| 4-Ethyltoluene | 16.20 | 10.59 | 1.530 | ok | 1.530 | 1.470-1.590 |
| Freon 113 | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Freon 114 | 1.80 | 3.34 | 0.539 | ok | 0.539 | 0.479-0.599 |
| Freon 123 | 2.12 | 3.34 | 0.635 | ok | 0.635 | 0.575-0.695 |
| Freon 123A | 2.14 | 3.34 | 0.641 | ok | 0.638 | 0.578-0.698 |
| Freon 142B | 1.77 | 3.34 | 0.530 | ok | 0.530 | 0.470-0.590 |
| Heptane | 5.78 | 4.73 | 1.222 | ok | 1.221 | 1.161-1.281 |
| Hexachlorobutadiene | 18.79 | 10.59 | 1.774 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.77 | 10.59 | 1.678 | ok | 1.678 | 1.618-1.738 |
| Hexane | 3.40 | 3.34 | 1.018 | ok | 1.016 | 0.956-1.076 |
| Iodomethane | 2.36 | 3.34 | 0.707 | ok | 0.706 | 0.646-0.766 |
| Methyl Tert Butyl Ether | 2.90 | 3.34 | 0.868 | ok | 0.865 | 0.805-0.925 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | Reporting this level |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Naphthalene | 18.54 | 10.59 | 1.751 | ok | 1.752 | 1.692-1.812 |
| Nonane | 14.08 | 10.59 | 1.330 | ok | 1.330 | 1.270-1.390 |
| Octane | 9.56 | 4.73 | 2.021 | ok | 2.021 | 1.961-2.081 |
| Pentane | 2.30 | 3.34 | 0.689 | ok | 0.689 | 0.629-0.749 |
| Styrene | 12.73 | 10.59 | 1.202 | ok | 1.204 | 1.144-1.264 |
| 1,1,1-Trichloroethane | 4.04 | 3.34 | 1.210 | ok | 1.211 | 1.151-1.271 |
| 1,1,1,2-Tetrachloroethane | 10.67 | 10.59 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.99 | 10.59 | 1.227 | ok | 1.227 | 1.167-1.287 |
| 1,2,4-Trichlorobenzene | 18.50 | 10.59 | 1.747 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.26 | 10.59 | 1.252 | ok | 1.254 | 1.194-1.314 |
| 1,2,3-Trimethylbenzene | 17.18 | 10.59 | 1.622 | ok | 1.623 | 1.563-1.683 |
| 1,2,4-Trimethylbenzene | 16.80 | 10.59 | 1.586 | ok | 1.587 | 1.527-1.647 |
| 1,3,5-Trimethylbenzene | 16.35 | 10.59 | 1.544 | ok | 1.544 | 1.484-1.604 |
| 2,2,4-Trimethylpentane | 5.45 | 4.73 | 1.152 | ok | 1.150 | 1.090-1.210 |
| Tertiary Butyl Alcohol | 2.41 | 3.34 | 0.722 | ok | 0.719 | 0.659-0.779 |
| Tetrachloroethylene | 9.42 | 4.73 | 1.992 | ok | 1.990 | 1.930-2.050 |
| Toluene | 7.61 | 4.73 | 1.609 | ok | 1.610 | 1.550-1.670 |
| Trichloroethylene | 5.35 | 4.73 | 1.131 | ok | 1.131 | 1.071-1.191 |
| Trichlorofluoromethane | 2.19 | 3.34 | 0.656 | ok | 0.656 | 0.596-0.716 |
| Vinyl chloride | 1.83 | 3.34 | 0.548 | ok | 0.548 | 0.488-0.608 |
| m,p-Xylene | 11.96 | 10.59 | 1.129 | ok | 1.134 | 1.074-1.194 |
| o-Xylene | 12.95 | 10.59 | 1.223 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.34 | ok | 3.34 | 3.01-3.67 | 42158 | ok | 42592 | 25555-59629 |
| 1,4-Difluorobenzene | 4.73 | ok | 4.73 | 4.40-5.06 | 204741 | ok | 230692 | 138415-322969 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 170286 | ok | 168831 | 101299-236363 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| Acetone (2-Propanone) | 2.14 | 3.34 | 0.641 | ok | 0.641 | 0.581-0.701 |
| Acrolein | 2.10 | 3.34 | 0.629 | ok | 0.629 | 0.569-0.689 |
| Acrylonitrile | 2.27 | 3.34 | 0.680 | ok | 0.680 | 0.620-0.740 |
| Acetonitrile | 2.06 | 3.34 | 0.617 | ok | 0.618 | 0.558-0.678 |
| 1,3-Butadiene | 1.87 | 3.34 | 0.560 | ok | 0.559 | 0.499-0.619 |
| Benzene | 4.38 | 3.34 | 1.311 | ok | 1.312 | 1.252-1.372 |
| Bromobenzene | 14.36 | 10.59 | 1.356 | ok | 1.358 | 1.298-1.418 |
| Bromodichloromethane | 5.29 | 4.73 | 1.118 | ok | 1.120 | 1.060-1.180 |
| Bromoform | 11.82 | 10.59 | 1.116 | ok | 1.117 | 1.057-1.177 |
| Bromomethane | 1.94 | 3.34 | 0.581 | ok | 0.578 | 0.518-0.638 |
| Bromoethene | 2.07 | 3.34 | 0.620 | ok | 0.620 | 0.560-0.680 |
| n-Butane | 1.88 | 3.34 | 0.563 | ok | 0.563 | 0.503-0.623 |
| n-Butylbenzene | 17.59 | 10.59 | 1.661 | ok | 1.662 | 1.602-1.722 |
| sec-Butylbenzene | 17.07 | 10.59 | 1.612 | ok | 1.613 | 1.553-1.673 |
| tert-Butylbenzene | 16.80 | 10.59 | 1.586 | ok | 1.587 | 1.527-1.647 |
| Carbon disulfide | 2.52 | 3.34 | 0.754 | ok | 0.755 | 0.695-0.815 |
| Chlorobenzene | 10.67 | 10.59 | 1.008 | ok | 1.007 | 0.947-1.067 |
| Chlorodifluoromethane | 1.71 | 3.34 | 0.512 | ok | 0.510 | 0.450-0.570 |
| Chloroethane | 1.98 | 3.34 | 0.593 | ok | 0.593 | 0.533-0.653 |
| Chlorotrifluoroethene | 1.72 | 3.34 | 0.515 | ok | 0.515 | 0.455-0.575 |
| Chloroform | 3.42 | 3.34 | 1.024 | ok | 1.024 | 0.964-1.084 |
| Chloromethane | 1.78 | 3.34 | 0.533 | ok | 0.531 | 0.471-0.591 |
| 3-Chloropropene | 2.46 | 3.34 | 0.737 | ok | 0.737 | 0.677-0.797 |
| 2-Chlorotoluene | 15.52 | 10.59 | 1.466 | ok | 1.466 | 1.406-1.526 |
| Carbon tetrachloride | 4.49 | 3.34 | 1.344 | ok | 1.347 | 1.287-1.407 |
| Cyclohexane | 4.60 | 4.73 | 0.973 | ok | 0.973 | 0.913-1.033 |
| 1,1-Dichloroethane | 2.85 | 3.34 | 0.853 | ok | 0.854 | 0.794-0.914 |
| 1,1-Dichloroethylene | 2.39 | 3.34 | 0.716 | ok | 0.713 | 0.653-0.773 |
| 1,2-Dibromoethane (EDB) | 8.55 | 4.73 | 1.808 | ok | 1.806 | 1.746-1.866 |
| 1,2-Dichloroethane | 3.87 | 3.34 | 1.159 | ok | 1.159 | 1.099-1.219 |
| 1,2-Dichloropropane | 5.10 | 4.73 | 1.078 | ok | 1.078 | 1.018-1.138 |
| 1,3-Dichloropropane | 7.68 | 4.73 | 1.624 | ok | 1.625 | 1.565-1.685 |
| 1,4-Dioxane | 5.41 | 4.73 | 1.144 | ok | 1.138 | 1.078-1.198 |
| Dichlorodifluoromethane | 1.73 | 3.34 | 0.518 | ok | 0.518 | 0.458-0.578 |
| Dichlorofluoromethane | 2.00 | 3.34 | 0.599 | ok | 0.599 | 0.539-0.659 |
| Dibromochloromethane | 8.19 | 4.73 | 1.732 | ok | 1.730 | 1.670-1.790 |
| Dibromomethane | 5.06 | 4.73 | 1.070 | ok | 1.070 | 1.010-1.130 |
| trans-1,2-Dichloroethylene | 2.77 | 3.34 | 0.829 | ok | 0.830 | 0.770-0.890 |
| cis-1,2-Dichloroethylene | 3.25 | 3.34 | 0.973 | ok | 0.974 | 0.914-1.034 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 6.35 | 4.73 | 1.342 | ok | 1.342 | 1.282-1.402 |
| m-Dichlorobenzene | 16.86 | 10.59 | 1.592 | ok | 1.593 | 1.533-1.653 |
| o-Dichlorobenzene | 17.23 | 10.59 | 1.627 | ok | 1.628 | 1.568-1.688 |
| p-Dichlorobenzene | 16.95 | 10.59 | 1.601 | ok | 1.601 | 1.541-1.661 |
| trans-1,3-Dichloropropene | 7.06 | 4.73 | 1.493 | ok | 1.494 | 1.434-1.554 |
| Di-Isopropyl ether | 3.40 | 3.34 | 1.018 | ok | 1.018 | 0.958-1.078 |
| 2,3-Dimethylpentane | 4.86 | 4.73 | 1.027 | ok | 1.030 | 0.970-1.090 |
| 2,4-Dimethylpentane | 3.96 | 3.34 | 1.186 | ok | 1.184 | 1.124-1.244 |
| Ethanol | 2.01 | 3.34 | 0.602 | ok | 0.601 | 0.541-0.661 |
| Ethylbenzene | 11.57 | 10.59 | 1.093 | ok | 1.093 | 1.033-1.153 |
| Ethyl Acetate | 3.40 | 3.34 | 1.018 | ok | 1.021 | 0.961-1.081 |
| Ethyl Acrylate | 5.24 | 4.73 | 1.108 | ok | 1.108 | 1.048-1.168 |
| 4-Ethyltoluene | 16.20 | 10.59 | 1.530 | ok | 1.530 | 1.470-1.590 |
| Freon 113 | 2.52 | 3.34 | 0.754 | ok | 0.754 | 0.694-0.814 |
| Freon 114 | 1.80 | 3.34 | 0.539 | ok | 0.539 | 0.479-0.599 |
| Freon 123 | 2.12 | 3.34 | 0.635 | ok | 0.635 | 0.575-0.695 |
| Freon 123A | 2.13 | 3.34 | 0.638 | ok | 0.638 | 0.578-0.698 |
| Freon 142B | 1.77 | 3.34 | 0.530 | ok | 0.530 | 0.470-0.590 |
| Freon 152A | 1.69 | 3.34 | 0.506 | ok | 0.507 | 0.447-0.567 |
| Heptane | 5.77 | 4.73 | 1.220 | ok | 1.221 | 1.161-1.281 |
| Hexachlorobutadiene | 18.80 | 10.59 | 1.775 | ok | 1.776 | 1.716-1.836 |
| Hexachloroethane | 17.77 | 10.59 | 1.678 | ok | 1.678 | 1.618-1.738 |
| Hexane | 3.39 | 3.34 | 1.015 | ok | 1.016 | 0.956-1.076 |
| 2-Hexanone | 8.24 | 4.73 | 1.742 | ok | 1.741 | 1.681-1.801 |
| Iodomethane | 2.36 | 3.34 | 0.707 | ok | 0.706 | 0.646-0.766 |
| Isopropylbenzene | 14.49 | 10.59 | 1.368 | ok | 1.370 | 1.310-1.430 |
| Isopropyl Alcohol | 2.21 | 3.34 | 0.662 | ok | 0.661 | 0.601-0.721 |
| p-Isopropyltoluene | 17.25 | 10.59 | 1.629 | ok | 1.629 | 1.569-1.689 |
| Methyl ethyl ketone | 3.04 | 3.34 | 0.910 | ok | 0.911 | 0.851-0.971 |
| Methyl Isobutyl Ketone | 6.48 | 4.73 | 1.370 | ok | 1.369 | 1.309-1.429 |
| Methyl Tert Butyl Ether | 2.89 | 3.34 | 0.865 | ok | 0.865 | 0.805-0.925 |
| Methylmethacrylate | 5.69 | 4.73 | 1.203 | ok | 1.203 | 1.143-1.263 |
| Naphthalene | 18.54 | 10.59 | 1.751 | ok | 1.752 | 1.692-1.812 |
| Nonane | 14.08 | 10.59 | 1.330 | ok | 1.330 | 1.270-1.390 |
| Octane | 9.55 | 4.73 | 2.019 | ok | 2.021 | 1.961-2.081 |
| Pentane | 2.30 | 3.34 | 0.689 | ok | 0.689 | 0.629-0.749 |
| n-Propylbenzene | 15.85 | 10.59 | 1.497 | ok | 1.498 | 1.438-1.558 |
| Propylene | 1.71 | 3.34 | 0.512 | ok | 0.512 | 0.452-0.572 |
| Styrene | 12.75 | 10.59 | 1.204 | ok | 1.204 | 1.144-1.264 |

# Initial Calibration Retention Time/Internal Standard Area Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample Number | Lab File ID | Injected | By | Level | Inst ID | Method | |
|---|---|---|---|---|---|---|---|
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | TCH | 0.2 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | TCH | 0.5 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | TCH | 5 | GCMS6W | TO-15 | |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | TCH | 10 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | TCH | 20 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | TCH | 40 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | TCH | 50 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | TCH | 0.04 | GCMS6W | TO-15 | |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | TCH | 0.1 | GCMS6W | TO-15 | Reporting this level |

| Target Compound | RT (min.) | Istd RT (min.) | Rel RT | | Mean Rel RT | Rel RT Range (+ /- .06) |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 4.05 | 3.34 | 1.213 | ok | 1.211 | 1.151-1.271 |
| 1,1,1,2-Tetrachloroethane | 10.68 | 10.59 | 1.008 | ok | 1.009 | 0.949-1.069 |
| 1,1,2,2-Tetrachloroethane | 12.99 | 10.59 | 1.227 | ok | 1.227 | 1.167-1.287 |
| 1,1,2-Trichloroethane | 7.23 | 4.73 | 1.529 | ok | 1.530 | 1.470-1.590 |
| 1,2,4-Trichlorobenzene | 18.50 | 10.59 | 1.747 | ok | 1.747 | 1.687-1.807 |
| 1,2,3-Trichloropropane | 13.27 | 10.59 | 1.253 | ok | 1.254 | 1.194-1.314 |
| 1,2,3-Trimethylbenzene | 17.18 | 10.59 | 1.622 | ok | 1.623 | 1.563-1.683 |
| 1,2,4-Trimethylbenzene | 16.80 | 10.59 | 1.586 | ok | 1.587 | 1.527-1.647 |
| 1,3,5-Trimethylbenzene | 16.34 | 10.59 | 1.543 | ok | 1.544 | 1.484-1.604 |
| 2,2,4-Trimethylpentane | 5.44 | 4.73 | 1.150 | ok | 1.150 | 1.090-1.210 |
| Tertiary Butyl Alcohol | 2.41 | 3.34 | 0.722 | ok | 0.719 | 0.659-0.779 |
| Tetrachloroethylene | 9.41 | 4.73 | 1.989 | ok | 1.990 | 1.930-2.050 |
| Tetrahydrofuran | 3.66 | 3.34 | 1.096 | ok | 1.095 | 1.035-1.155 |
| Toluene | 7.62 | 4.73 | 1.611 | ok | 1.610 | 1.550-1.670 |
| Trichloroethylene | 5.35 | 4.73 | 1.131 | ok | 1.131 | 1.071-1.191 |
| Trichlorofluoromethane | 2.19 | 3.34 | 0.656 | ok | 0.656 | 0.596-0.716 |
| Vinyl chloride | 1.83 | 3.34 | 0.548 | ok | 0.548 | 0.488-0.608 |
| Vinyl Acetate | 2.93 | 3.34 | 0.877 | ok | 0.878 | 0.818-0.938 |
| m,p-Xylene | 12.01 | 10.59 | 1.134 | ok | 1.134 | 1.074-1.194 |
| o-Xylene | 12.95 | 10.59 | 1.223 | ok | 1.224 | 1.164-1.284 |

| Internal Standard | RT (min.) | | Mean RT(min.) | RT Range (+ /- 0.33) | Area | | Mean Area | Area Range (+ /- 40 %) |
|---|---|---|---|---|---|---|---|---|
| Bromochloromethane | 3.34 | ok | 3.34 | 3.01-3.67 | 40449 | ok | 42592 | 25555-59629 |
| 1,4-Difluorobenzene | 4.73 | ok | 4.73 | 4.40-5.06 | 223013 | ok | 230692 | 138415-322969 |
| Chlorobenzene-D5 | 10.59 | ok | 10.59 | 10.26-10.92 | 163472 | ok | 168831 | 101299-236363 |

# Surrogate Recovery Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Method:** TO-15 **Matrix:** AIR

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 |
|---|---|---|
| JD52620-1 | 2W61650.D | 105 |
| JD52620-2 | 2W61651.D | 107 |
| JD52620-3 | 2W61659.D | 105 |
| JD52620-3 | 6W26152.D | 96 |
| JD52620-4 | 2W61660.D | 105 |
| JD52620-5 | 2W61661.D | 105 |
| JD52620-5 | 6W26153.D | 96 |
| JD52620-6 | 2W61662.D | 103 |
| JD52620-6 | 6W26154.D | 92 |
| JD52620-7 | 2W61663.D | 106 |
| JD52620-7 | 6W26155.D | 96 |
| JD52620-8 | 2W61664.D | 105 |
| JD52620-8 | 6W26156.D | 98 |
| JD52620-9 | 2W61693.D | 107 |
| JD52620-9 | 2W61666.D | 105 |
| JD52620-10 | 2W61667.D | 104 |
| JD52620-11 | 2W61692.D | 105 |
| JD52620-12 | 2W61669.D | 105 |
| JD52620-13 | 2W61658.D | 105 |
| JD52482-2DUP | 2W61640.D | 107 |
| JD52615-1DUP | 6W26144.D | 104 |
| JD52620-8DUP | 2W61665.D | 106 |
| JD52638-1DUP | 2W61697.D | 108 |
| V2W2637-SCC | 2W59315.D | 96 |
| V2W2710-SCC | 2W61037.D | 96 |
| V2W2714-SCC | 2W61172.D | 94 |
| V2W2735-BS | 2W61634.D | 112 |
| V2W2735-BSD | 2W61635.D | 111 |
| V2W2735-MB | 2W61637.D | 108 |
| V2W2736-BS | 2W61654.D | 111 |
| V2W2736-BSD | 2W61655.D | 111 |
| V2W2736-MB | 2W61657.D | 107 |
| V2W2737-BS | 2W61686.D | 112 |
| V2W2737-BSD | 2W61687.D | 112 |
| V2W2737-MB | 2W61689.D | 106 |
| V6W1111-BS | 6W26138.D | 106 |
| V6W1111-BSD | 6W26139.D | 108 |
| V6W1111-MB | 6W26141.D | 97 |
| V2W2637-BS | 2W59299.D | 109 |
| V2W2637-BSD | 2W59300.D | 109 |

# Surrogate Recovery Summary



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Method:** TO-15 **Matrix:** AIR

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 |
|---|---|---|
| V2W2637-MB | 2W59302.D | 97 |
| V2W2710-BS | 2W61025.D | 99 |
| V2W2710-BSD | 2W61026.D | 100 |
| V2W2710-MB | 2W61028.D | 97 |
| V2W2714-BS | 2W61141.D | 101 |
| V2W2714-BSD | 2W61142.D | 99 |
| V2W2714-MB | 2W61144.D | 95 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = 4-Bromofluorobenzene | 65-128% |

# Initial Calibration Summary



**Job Number:** JD52620 **Sample:** V2W2619-ICC2619
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W58811.D
**Project:** EPT, Ithaca, NY

Response Factor Report MS2W

Method : C:\msdchem\1\METHODS\M2W2619.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Wed May 11 14:50:32 2022
Response via : Initial Calibration

Calibration Files
0.5 =2w58809.D 0.2 =2w58808.D 40 =2w58813.D 0.04=2w58806.D
5 =2w58810.D 10 =2w58811.D 20 =2w58812.D 0.1 =2w58807.D
50 =2w58814.D =

| Compound | 0.5 | 0.2 | 40 | 0.04 | 5 | 10 | 20 | 0.1 | 50 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) I BROMOCHLOROMETHANE | ----------ISTD---------- | | | | | | | | | | |
| 2) FREON 115 | 1.524 | 2.275 | | 2.387 | 2.111 | 2.026 | 1.457 | 2.155 | | 1.991 | 18.14 |
| 3) FREON 152A | 1.196 | 1.255 | 1.167 | | 1.129 | 1.146 | 1.116 | 1.244 | 1.172 | 1.178 | 4.32 |
| 4) CHLORODIFLUOROMETHANE | 0.533 | 0.532 | 0.529 | 0.567 | 0.507 | 0.514 | 0.505 | 0.574 | 0.548 | 0.534 | 4.61 |
| 5) CHLOROTRIFLUOROETHENE | 2.346 | 2.371 | 2.332 | 2.449 | 2.330 | 2.328 | 2.257 | 2.401 | 2.327 | 2.349 | 2.30 |
| 6) DICHLORODIFLUOROMETHANE | 5.302 | 5.326 | 5.144 | 5.770 | 5.300 | 5.227 | 5.032 | 5.267 | 5.308 | 5.297 | 3.80 |
| 7) PROPYLENE | 2.130 | 2.131 | 2.036 | 2.722 | 1.995 | 2.089 | 1.985 | 2.315 | 1.997 | 2.155 | 10.96 |
| 8) 1-CHLORO-1,1-DIFLUOROETHANE | 3.559 | 3.756 | 3.798 | 3.715 | 3.666 | 3.681 | 3.597 | 3.812 | 3.940 | 3.725 | 3.14 |
| 9) FREON 114 | 4.358 | 4.320 | 4.377 | 4.452 | 4.339 | 4.480 | 4.218 | 4.373 | 4.450 | 4.374 | 1.84 |
| 10) CHLOROMETHANE | 0.724 | 0.744 | 0.629 | 1.025 | 0.620 | 0.621 | 0.602 | 0.779 | 0.643 | 0.710 | 18.92 |
| 11) VINYL CHLORIDE | 1.886 | 1.865 | 1.829 | 2.047 | 1.856 | 1.838 | 1.770 | 1.914 | 1.843 | 1.872 | 4.11 |
| 12) 1,3-BUTADIENE | 1.739 | 1.744 | 1.782 | 2.033 | 1.747 | 1.761 | 1.705 | 1.800 | 1.822 | 1.792 | 5.40 |
| 13) N-BUTANE | 3.392 | 3.625 | 3.414 | 5.262 | 3.398 | 3.356 | 3.286 | 3.884 | 3.484 | 3.678 | 16.87 |
| 14) BROMOMETHANE | 1.377 | 1.379 | 1.398 | 1.643 | 1.414 | 1.398 | 1.352 | 1.502 | 1.399 | 1.429 | 6.33 |
| 15) CHLOROETHANE | 0.891 | 0.919 | 0.891 | 0.997 | 0.904 | 0.894 | 0.856 | 0.947 | 0.897 | 0.911 | 4.42 |
| 16) DICHLOROFLUOROMETHANE | 3.365 | 3.699 | 3.475 | 3.908 | 3.512 | 3.453 | 3.350 | 3.511 | 3.500 | 3.530 | 4.92 |
| 17) ACETONITRILE | 1.850 | 1.817 | 1.928 | 2.473 | 1.872 | 1.872 | 1.865 | 2.010 | 1.926 | 1.957 | 10.30 |
| 18) ACROLEIN | 0.770 | 0.824 | 0.912 | 1.134 | 0.905 | 0.910 | 0.890 | 0.790 | 0.914 | 0.894 | 11.84 |
| 19) FREON 123 | 3.382 | 3.447 | 3.471 | 3.449 | 3.559 | 3.509 | 3.395 | 3.447 | 3.490 | 3.461 | 1.58 |
| 20) FREON 123A | 1.926 | 1.947 | 1.932 | 2.216 | 2.016 | 1.997 | 1.903 | 1.921 | 1.932 | 1.977 | 4.91 |
| 21) TRICHLOROFLUOROMETHANE | 4.064 | 4.018 | 4.151 | 4.304 | 4.155 | 4.155 | 4.041 | 3.987 | 4.208 | 4.121 | 2.47 |
| 22) ISOPROPYL ALCOHOL | 4.857 | 5.455 | 4.111 | 5.958 | 4.497 | 4.444 | 4.099 | 5.392 | 4.159 | 4.775 | 14.27 |
| 23) ACETONE | | | | | | | | | | | |

# Initial Calibration Summary

**Job Number:** JD52620 **Sample:** V2W2619-ICC2619
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W58811.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1.318 | 1.394 | 0.949 | | 1.012 | 0.991 | 0.955 | 1.433 | 0.956 | 1.126 | 19.12 |
| 24) | PENTANE | | | | | | | | | | | |
| | | 2.363 | 2.619 | 2.368 | 2.757 | 2.401 | 2.393 | 2.314 | 2.463 | 2.370 | 2.450 | 5.91 |
| 25) | IODOMETHANE | | | | | | | | | | | |
| | | 3.396 | 3.374 | 3.560 | 3.641 | 3.586 | 3.569 | 3.451 | 3.437 | 3.608 | 3.513 | 2.82 |
| 26) | 1,1-DICHLOROETHYLENE | | | | | | | | | | | |
| | | 1.402 | 1.453 | 1.405 | 1.523 | 1.496 | 1.454 | 1.391 | 1.377 | 1.405 | 1.434 | 3.52 |
| 27) | CARBON DISULFIDE | | | | | | | | | | | |
| | | 4.117 | 4.245 | 4.195 | 4.215 | 4.324 | 4.212 | 4.074 | 3.969 | 4.247 | 4.177 | 2.56 |
| 28) | ETHANOL | | | | | | | | | | | |
| | | 1.510 | | 0.955 | | 0.993 | 0.991 | 0.934 | | 0.968 | 1.059 | 20.99 |
| 29) | BROMOETHENE | | | | | | | | | | | |
| | | 1.412 | 1.398 | 1.424 | 1.436 | 1.448 | 1.429 | 1.385 | 1.444 | 1.436 | 1.424 | 1.50 |
| 30) | ACRYLONITRILE | | | | | | | | | | | |
| | | 1.566 | 1.600 | 1.613 | 1.987 | 1.565 | 1.581 | 1.544 | 1.574 | 1.636 | 1.630 | 8.40 |
| 31) | METHYLENE CHLORIDE | | | | | | | | | | | |
| | | 1.612 | 2.030 | 1.263 | | 1.372 | 1.327 | 1.259 | 2.519 | 1.260 | 1.580 | 29.28 |
| 32) | 3-CHLOROPROPENE | | | | | | | | | | | |
| | | 0.641 | 0.626 | 0.654 | 0.705 | 0.646 | 0.670 | 0.644 | 0.730 | 0.624 | 0.660 | 5.44 |
| 33) | FREON 113 | | | | | | | | | | | |
| | | 2.222 | 2.166 | 2.244 | 2.264 | 2.337 | 2.304 | 2.214 | 2.201 | 2.272 | 2.247 | 2.36 |
| 34) | TRANS-1,2-DICHLOROETHENE | | | | | | | | | | | |
| | | 1.416 | 1.485 | 1.494 | 1.596 | 1.493 | 1.504 | 1.462 | 1.472 | 1.512 | 1.493 | 3.21 |
| 35) | TERTIARY BUTYL ALCOHOL | | | | | | | | | | | |
| | | 3.589 | 3.873 | 3.909 | 4.118 | 4.585 | 4.520 | 4.043 | 3.840 | 3.864 | 4.038 | 8.09 |
| 36) | METHYL TERTIARY BUTYL ETHER | | | | | | | | | | | |
| | | 4.183 | 4.211 | 4.467 | 4.369 | 4.502 | 4.511 | 4.371 | 4.017 | 4.525 | 4.351 | 4.08 |
| 37) | TETRAHYDROFURAN | | | | | | | | | | | |
| | | 0.602 | 0.608 | 0.655 | 0.714 | 0.657 | 0.659 | 0.638 | 0.640 | 0.665 | 0.649 | 5.08 |
| 38) | HEXANE | | | | | | | | | | | |
| | | 3.282 | 3.284 | 3.286 | 3.763 | 3.413 | 3.361 | 3.246 | 3.329 | 3.303 | 3.363 | 4.70 |
| 39) | VINYL ACETATE | | | | | | | | | | | |
| | | 0.289 | 0.283 | 0.365 | | 0.366 | 0.363 | 0.351 | 0.297 | 0.368 | 0.335 | 11.47 |
| 40) | 1,1-DICHLOROETHANE | | | | | | | | | | | |
| | | 2.955 | 2.919 | 3.166 | 3.023 | 3.130 | 3.128 | 3.076 | 2.993 | 3.193 | 3.065 | 3.16 |
| 41) | METHYL ETHYL KETONE | | | | | | | | | | | |
| | | 0.648 | 0.621 | 0.696 | 0.823 | 0.706 | 0.701 | 0.679 | 0.650 | 0.698 | 0.691 | 8.31 |
| 42) | CIS-1,2-DICHLOROETHENE | | | | | | | | | | | |
| | | 1.375 | 1.390 | 1.505 | 1.555 | 1.467 | 1.484 | 1.457 | 1.335 | 1.515 | 1.454 | 4.98 |
| 43) | DIISOPROPYL ETHER | | | | | | | | | | | |
| | | 0.943 | 0.920 | 0.916 | 1.003 | 0.944 | 0.941 | 0.909 | 0.927 | 0.925 | 0.936 | 2.99 |
| 44) | ETHYL ACETATE | | | | | | | | | | | |
| | | 0.594 | 0.592 | 0.609 | 0.652 | 0.610 | 0.618 | 0.594 | 0.591 | 0.610 | 0.608 | 3.16 |
| 45) | METHYL ACRYLATE | | | | | | | | | | | |
| | | 4.167 | 4.195 | 4.277 | 4.602 | 4.367 | 4.337 | 4.196 | 4.296 | 4.304 | 4.304 | 3.04 |
| 46) | CHLOROFORM | | | | | | | | | | | |
| | | 3.248 | 3.197 | 3.244 | 3.380 | 3.317 | 3.285 | 3.194 | 3.293 | 3.297 | 3.273 | 1.81 |
| 47) | 2,4-DIMETHYLPENTANE | | | | | | | | | | | |
| | | 3.688 | 3.760 | 3.981 | 4.109 | 3.855 | 3.932 | 3.868 | 3.749 | 4.032 | 3.886 | 3.61 |
| 48) | 1,1,1-TRICHLOROETHANE | | | | | | | | | | | |
| | | 3.116 | 3.205 | 3.551 | 3.412 | 3.423 | 3.482 | 3.409 | 3.139 | 3.625 | 3.373 | 5.36 |
| 49) | CARBON TETRACHLORIDE | | | | | | | | | | | |
| | | 3.092 | 3.149 | 3.971 | 3.236 | 3.648 | 3.917 | 3.818 | 3.143 | 4.067 | 3.560 | 11.29 |
| 50) | 1,2-DICHLOROETHANE | | | | | | | | | | | |
| | | 2.382 | 2.411 | 2.680 | 2.506 | 2.504 | 2.526 | 2.533 | 2.420 | 2.741 | 2.523 | 4.78 |
| 51) | BENZENE | | | | | | | | | | | |
| | | 3.982 | 4.669 | 4.423 | 4.528 | 4.090 | 5.054 | 4.875 | 4.803 | 4.439 | 4.540 | 7.79 |
| 52) | I 1,4-DIFLUOROBENZENE | ---------- | | | | | ISTD | | | | | |
| 53) | CYCLOHEXANE | | | | | | | | | | | |

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| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0.324 | 0.338 | 0.355 | 0.378 | 0.349 | 0.356 | 0.347 | 0.340 | 0.352 | 0.349 | 4.27 |
| 54) | 2,3-DIMETHYLPENTANE | | | | | | | | | | | |
| | | 0.189 | 0.192 | 0.188 | 0.198 | 0.190 | 0.191 | 0.183 | 0.191 | 0.188 | 0.190 | 2.09 |
| 55) | TRICHLOROETHENE | | | | | | | | | | | |
| | | 0.358 | 0.368 | 0.382 | 0.366 | 0.389 | 0.388 | 0.376 | 0.368 | 0.381 | 0.375 | 2.86 |
| 56) | 1,2-DICHLOROPROPANE | | | | | | | | | | | |
| | | 0.369 | 0.375 | 0.393 | 0.501 | 0.383 | 0.385 | 0.380 | 0.380 | 0.391 | 0.395 | 10.22 |
| 57) | DIBROMOMETHANE | | | | | | | | | | | |
| | | 0.307 | 0.319 | 0.323 | 0.437 | 0.309 | 0.311 | 0.309 | 0.343 | 0.326 | 0.332 | 12.40 |
| 58) | ETHYL ACRYLATE | | | | | | | | | | | |
| | | 0.905 | 0.901 | 1.092 | 1.041 | 1.006 | 1.038 | 1.030 | 0.894 | 1.106 | 1.001 | 8.19 |
| 59) | BROMODICHLOROMETHANE | | | | | | | | | | | |
| | | 0.598 | 0.600 | 0.684 | 0.623 | 0.660 | 0.667 | 0.658 | 0.606 | 0.689 | 0.643 | 5.62 |
| 60) | 2,2,4-TRIMETHYLPENTANE | | | | | | | | | | | |
| | | 1.978 | 1.988 | 2.062 | 2.144 | 2.081 | 2.044 | 1.996 | 1.983 | 2.047 | 2.036 | 2.73 |
| 61) | 1,4-DIOXANE | | | | | | | | | | | |
| | | 0.172 | 0.176 | 0.181 | 0.221 | 0.198 | 0.194 | 0.184 | 0.192 | 0.180 | 0.189 | 7.85 |
| 62) | HEPTANE | | | | | | | | | | | |
| | | 0.786 | 0.767 | 0.886 | 0.935 | 0.852 | 0.857 | 0.844 | 0.788 | 0.890 | 0.845 | 6.58 |
| 63) | METHYL METHACRYLATE | | | | | | | | | | | |
| | | 0.295 | 0.299 | 0.338 | 0.367 | 0.331 | 0.330 | 0.324 | 0.301 | 0.339 | 0.325 | 7.18 |
| 64) | METHYL ISOBUTYL KETONE | | | | | | | | | | | |
| | | 0.342 | 0.346 | 0.420 | 0.412 | 0.386 | 0.396 | 0.399 | 0.344 | 0.417 | 0.385 | 8.38 |
| 65) | CIS-1,3-DICHLOROPROPENE | | | | | | | | | | | |
| | | 0.443 | 0.436 | 0.542 | 0.485 | 0.486 | 0.494 | 0.495 | 0.446 | 0.549 | 0.486 | 8.33 |
| 66) | TOLUENE | | | | | | | | | | | |
| | | 0.946 | 0.985 | 1.154 | 1.028 | 1.034 | 1.085 | 1.083 | 0.981 | 1.152 | 1.050 | 7.08 |
| 67) | 1,3-DICHLOROPROPANE | | | | | | | | | | | |
| | | 0.466 | 0.479 | 0.552 | 0.523 | 0.526 | 0.547 | 0.535 | 0.472 | 0.558 | 0.517 | 6.90 |
| 68) | TRANS-1,3-DICHLOROPROPENE | | | | | | | | | | | |
| | | 0.394 | 0.416 | 0.513 | 0.446 | 0.449 | 0.468 | 0.474 | 0.387 | 0.529 | 0.453 | 10.85 |
| 69) | 1,1,2-TRICHLOROETHANE | | | | | | | | | | | |
| | | 0.279 | 0.286 | 0.338 | 0.281 | 0.302 | 0.320 | 0.323 | 0.285 | 0.338 | 0.306 | 7.96 |
| 70) | 2-HEXANONE | | | | | | | | | | | |
| | | 0.419 | 0.430 | 0.559 | 0.474 | 0.515 | 0.533 | 0.534 | 0.429 | 0.559 | 0.495 | 11.59 |
| 71) | ETHYL METHACRYLATE | | | | | | | | | | | |
| | | 0.489 | 0.495 | 0.606 | 0.508 | 0.580 | 0.597 | 0.589 | 0.465 | 0.602 | 0.548 | 10.47 |
| 72) | TETRACHLOROETHENE | | | | | | | | | | | |
| | | 0.320 | 0.325 | 0.401 | 0.366 | 0.355 | 0.370 | 0.374 | 0.309 | 0.404 | 0.358 | 9.58 |
| 73) | DIBROMOCHLOROMETHANE | | | | | | | | | | | |
| | | 0.571 | 0.570 | 0.751 | 0.609 | 0.651 | 0.684 | 0.705 | 0.561 | 0.760 | 0.652 | 11.99 |
| 74) | 1,2-DIBROMOETHANE | | | | | | | | | | | |
| | | 0.500 | 0.502 | 0.618 | 0.532 | 0.578 | 0.593 | 0.586 | 0.492 | 0.621 | 0.558 | 9.30 |
| 75) | OCTANE | | | | | | | | | | | |
| | | 1.026 | 1.031 | 1.286 | 1.192 | 1.175 | 1.219 | 1.222 | 1.063 | 1.291 | 1.167 | 8.84 |
| 76) | I CHLOROBENZENE-D5 | ---------- | | | | ISTD | | | | ---------- | | |
| 77) | 1,1,1,2-TETRACHLOROETHANE | | | | | | | | | | | |
| | | 0.458 | 0.459 | 0.519 | 0.500 | 0.517 | 0.530 | 0.514 | 0.437 | 0.521 | 0.495 | 6.95 |
| 78) | CHLOROBENZENE | | | | | | | | | | | |
| | | 0.864 | 0.873 | 0.960 | 0.945 | 0.967 | 0.988 | 0.953 | 0.865 | 0.960 | 0.931 | 5.26 |
| 79) | ETHYLBENZENE | | | | | | | | | | | |
| | | 1.387 | 1.395 | 1.694 | 1.380 | 1.561 | 1.620 | 1.626 | 1.383 | 1.696 | 1.527 | 9.12 |
| 80) | M,P-XYLENE | | | | | | | | | | | |
| | | 1.055 | 1.030 | 1.243 | 1.075 | 1.277 | 1.308 | 1.259 | 1.007 | 1.226 | 1.164 | 10.29 |
| 81) | O-XYLENE | | | | | | | | | | | |
| | | 1.060 | 1.056 | 1.271 | 1.067 | 1.257 | 1.314 | 1.268 | 1.044 | 1.261 | 1.178 | 9.85 |
| 82) | STYRENE | | | | | | | | | | | |
| | | 0.771 | 0.731 | 0.971 | 0.735 | 0.920 | 0.956 | 0.948 | 0.719 | 0.965 | 0.857 | 13.29 |
| 83) | NONANE | | | | | | | | | | | |

# Initial Calibration Summary

**Job Number:** JD52620 **Sample:** V2W2619-ICC2619
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W58811.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1.217 | 1.214 | 1.432 | 1.426 | 1.397 | 1.430 | 1.403 | 1.202 | 1.437 | 1.351 | 7.84 |
| 84) | BROMOFORM | | | | | | | | | | | |
| | | 0.491 | 0.483 | 0.720 | 0.464 | 0.636 | 0.685 | 0.687 | 0.446 | 0.727 | 0.593 | 20.12 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | | | | | | | | | | | |
| | | 0.686 | 0.707 | 0.913 | 0.741 | 0.920 | 0.963 | 0.930 | 0.719 | 0.897 | 0.831 | 13.67 |
| 86) | 1,2,3-TRICHLOROPROPANE | | | | | | | | | | | |
| | | 0.551 | 0.550 | 0.704 | 0.559 | 0.693 | 0.723 | 0.696 | 0.547 | 0.701 | 0.636 | 12.63 |
| 87) | 4-BROMOFLUOROBENZENE | | | | | | | | | | | |
| | | 0.719 | 0.703 | 0.746 | 0.692 | 0.740 | 0.747 | 0.744 | 0.703 | 0.730 | 0.725 | 2.92 |
| 88) | ISOPROPYLBENZENE | | | | | | | | | | | |
| | | 0.413 | 0.399 | 0.457 | 0.404 | 0.487 | 0.493 | 0.470 | 0.404 | 0.451 | 0.442 | 8.55 |
| 89) | BROMOBENZENE | | | | | | | | | | | |
| | | 0.730 | 0.717 | 0.868 | 0.741 | 0.871 | 0.886 | 0.853 | 0.728 | 0.869 | 0.807 | 9.24 |
| 90) | 2-CHLOROTOLUENE | | | | | | | | | | | |
| | | 0.336 | 0.342 | 0.422 | 0.320 | 0.394 | 0.410 | 0.411 | 0.335 | 0.424 | 0.377 | 11.39 |
| 91) | N-PROPYLBENZENE | | | | | | | | | | | |
| | | 0.390 | 0.383 | 0.490 | 0.360 | 0.473 | 0.506 | 0.491 | 0.358 | 0.484 | 0.437 | 14.28 |
| 92) | 4-ETHYLTOLUENE | | | | | | | | | | | |
| | | 1.372 | 1.333 | 1.851 | 1.361 | 1.791 | 1.898 | 1.840 | 1.361 | 1.843 | 1.628 | 15.90 |
| 93) | 1,3,5-TRIMETHYLBENZENE | | | | | | | | | | | |
| | | 1.167 | 1.165 | 1.509 | 1.098 | 1.537 | 1.590 | 1.528 | 1.146 | 1.502 | 1.360 | 15.25 |
| 94) | ALPHA-METHYLSTYRENE | | | | | | | | | | | |
| | | 0.552 | 0.536 | 0.748 | 0.558 | 0.774 | 0.796 | 0.763 | 0.539 | 0.741 | 0.667 | 17.44 |
| 95) | TERT-BUTYLBENZENE | | | | | | | | | | | |
| | | 0.262 | 0.268 | 0.307 | 0.282 | 0.327 | 0.335 | 0.315 | 0.276 | 0.305 | 0.297 | 8.88 |
| 96) | 1,2,4-TRIMETHYLBENZENE | | | | | | | | | | | |
| | | 1.143 | 1.097 | 1.458 | 1.068 | 1.548 | 1.578 | 1.490 | 1.066 | 1.438 | 1.321 | 16.71 |
| 97) | BENZYL CHLORIDE | | | | | | | | | | | |
| | | 0.694 | 0.675 | 1.242 | | 1.278 | 1.333 | 1.287 | 0.659 | 1.211 | 1.047 | 29.57 |
| 98) | M-DICHLOROBENZENE | | | | | | | | | | | |
| | | 0.600 | 0.601 | 0.802 | 0.616 | 0.867 | 0.881 | 0.830 | 0.608 | 0.789 | 0.733 | 16.82 |
| 99) | P-DICHLOROBENZENE | | | | | | | | | | | |
| | | 0.590 | 0.578 | 0.779 | 0.672 | 0.859 | 0.867 | 0.811 | 0.583 | 0.764 | 0.722 | 16.42 |
| 100) | O-DICHLOROBENZENE | | | | | | | | | | | |
| | | 0.574 | 0.564 | 0.735 | 0.595 | 0.813 | 0.822 | 0.762 | 0.565 | 0.725 | 0.684 | 15.90 |
| 101) | SEC-BUTYLBENZENE | | | | | | | | | | | |
| | | 0.326 | 0.327 | 0.358 | 0.346 | 0.410 | 0.409 | 0.379 | 0.305 | 0.354 | 0.357 | 10.22 |
| 102) | 1,2,3-TRIMETHYLBENZENE | | | | | | | | | | | |
| | | 1.074 | 1.105 | 1.348 | 1.142 | 1.474 | 1.481 | 1.397 | 1.091 | 1.324 | 1.271 | 13.21 |
| 103) | P-ISOPROPYLTOLUENE | | | | | | | | | | | |
| | | 0.343 | 0.337 | 0.380 | 0.344 | 0.438 | 0.428 | 0.390 | 0.321 | 0.378 | 0.373 | 10.98 |
| 104) | N-BUTYLBENZENE | | | | | | | | | | | |
| | | 0.298 | 0.293 | 0.370 | 0.282 | 0.395 | 0.400 | 0.376 | 0.267 | 0.372 | 0.339 | 15.61 |
| 105) | HEXACHLOROETHANE | | | | | | | | | | | |
| | | 0.437 | 0.414 | 0.589 | 0.427 | 0.630 | 0.636 | 0.594 | 0.387 | 0.583 | 0.522 | 19.65 |
| 106) | HEXACHLOROBUTADIENE | | | | | | | | | | | |
| | | 0.326 | 0.325 | 0.558 | 0.362 | 0.521 | 0.541 | 0.533 | 0.328 | 0.553 | 0.450 | 24.38 |
| 107) | 1,2,4-TRICHLOROBENZENE | | | | | | | | | | | |
| | | 0.282 | 0.264 | 0.594 | | 0.509 | 0.553 | 0.566 | | 0.598 | 0.481 | 30.16 |
| 108) | NAPHTHALENE | | | | | | | | | | | |
| | | 0.809 | 0.740 | 1.410 | 0.899 | 1.365 | 1.463 | 1.450 | 0.701 | 1.263 | 1.122 | 29.15 |

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

M2W2619.M Wed May 11 14:59:44 2022 GCMS2W

6.9.1

6

# Initial Calibration Verification



**Job Number:** JD52620 **Sample:** V2W2619-ICV2619
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W58819.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\
Data File : 2w58819.D
Acq On : 27 Apr 2022 10:06 am
Operator : thomash
Sample : icv2619-10
Misc : MS57824,V2w2619,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 14:50:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 111 | 0.00 |
| 2 | T | FREON 115 | 1.991 | 1.476 | 25.9 | 81 | 0.00 |
| 3 | T | FREON 152A | 1.178 | 1.086 | 7.8 | 105 | 0.00 |
| 4 | T | CHLORODIFLUOROMETHANE | 0.534 | 0.503 | 5.8 | 108 | 0.00 |
| 5 | T | CHLOROTRIFLUOROETHENE | 2.349 | 2.229 | 5.1 | 106 | 0.00 |
| 6 | T | DICHLORODIFLUOROMETHANE | 5.297 | 4.405 | 16.8 | 93 | 0.00 |
| 7 | T | PROPYLENE | 2.155 | 1.842 | 14.5 | 98 | 0.01 |
| 8 | T | 1-CHLORO-1,1-DIFLUOROETHANE | 3.725 | 3.493 | 6.2 | 105 | 0.00 |
| 9 | T | FREON 114 | 4.374 | 4.265 | 2.5 | 106 | 0.00 |
| 10 | T | CHLOROMETHANE | 0.710 | 0.577 | 18.7 | 103 | 0.00 |
| 11 | T | VINYL CHLORIDE | 1.872 | 1.744 | 6.8 | 105 | 0.00 |
| 12 | t | 1,3-BUTADIENE | 1.792 | 1.627 | 9.2 | 102 | 0.00 |
| 13 | T | N-BUTANE | 3.678 | 3.058 | 16.9 | 101 | 0.00 |
| 14 | T | BROMOMETHANE | 1.429 | 1.360 | 4.8 | 108 | 0.00 |
| 15 | T | CHLOROETHANE | 0.911 | 0.859 | 5.7 | 107 | 0.00 |
| 16 | T | DICHLOROFLUOROMETHANE | 3.530 | 3.282 | 7.0 | 105 | 0.00 |
| 17 | T | ACETONITRILE | 1.957 | 1.683 | 14.0 | 100 | 0.00 |
| 18 | T | ACROLEIN | 0.894 | 0.683 | 23.6 | 83 | 0.00 |
| 19 | T | FREON 123 | 3.461 | 3.506 | -1.3 | 111 | 0.00 |
| 20 | T | FREON 123A | 1.977 | 2.124 | -7.4 | 118 | 0.00 |
| 21 | T | TRICHLOROFLUOROMETHANE | 4.121 | 4.040 | 2.0 | 108 | 0.00 |
| 22 | T | ISOPROPYL ALCOHOL | 4.775 | 4.165 | 12.8 | 104 | 0.00 |
| 23 | T | ACETONE | 1.126 | 0.942 | 16.3 | 105 | 0.00 |
| 24 | T | PENTANE | 2.450 | 2.219 | 9.4 | 103 | 0.00 |
| 25 | T | IODOMETHANE | 3.513 | 3.513 | 0.0 | 109 | 0.00 |
| 26 | T | 1,1-DICHLOROETHYLENE | 1.434 | 1.428 | 0.4 | 109 | 0.00 |
| 27 | T | CARBON DISULFIDE | 4.177 | 3.888 | 6.9 | 102 | 0.00 |
| 28 | T | ETHANOL | 1.059 | 0.945 | 10.8 | 106 | 0.00 |
| 29 | T | BROMOETHENE | 1.424 | 1.418 | 0.4 | 110 | 0.00 |
| 30 | T | ACRYLONITRILE | 1.630 | 1.458 | 10.6 | 102 | 0.00 |
| 31 | T | METHYLENE CHLORIDE | 1.580 | 1.265 | 19.9 | 106 | 0.00 |
| 32 | T | 3-CHLOROPROPENE | 0.660 | 0.638 | 3.3 | 106 | 0.00 |
| 33 | T | FREON 113 | 2.247 | 2.209 | 1.7 | 106 | 0.00 |
| 34 | T | TRANS-1,2-DICHLOROETHENE | 1.493 | 1.468 | 1.7 | 108 | 0.00 |
| 35 | T | TERTIARY BUTYL ALCOHOL | 4.038 | 3.876 | 4.0 | 95 | 0.00 |
| 36 | t | METHYL TERTIARY BUTYL ETHER | 4.351 | 4.455 | -2.4 | 110 | 0.00 |
| 37 | T | TETRAHYDROFURAN | 0.649 | 0.639 | 1.5 | 108 | 0.00 |
| 38 | T | HEXANE | 3.363 | 3.279 | 2.5 | 108 | 0.00 |

# Initial Calibration Verification

**Job Number:** JD52620 **Sample:** V2W2619-ICV2619
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W58819.D
**Project:** EPT, Ithaca, NY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | T | VINYL ACETATE | 0.335 | 0.306 | 8.7 | 93 | 0.00 |
| 40 | T | 1,1-DICHLOROETHANE | 3.065 | 3.107 | -1.4 | 110 | 0.00 |
| 41 | T | METHYL ETHYL KETONE | 0.691 | 0.715 | -3.5 | 113 | 0.00 |
| 42 | T | CIS-1,2-DICHLOROETHENE | 1.454 | 1.482 | -1.9 | 111 | 0.00 |
| 43 | T | DIISOPROPYL ETHER | 0.936 | 0.905 | 3.3 | 107 | 0.00 |
| 44 | T | ETHYL ACETATE | 0.608 | 0.606 | 0.3 | 109 | 0.00 |
| 45 | T | METHYL ACRYLATE | 4.304 | 4.116 | 4.4 | 105 | 0.00 |
| 46 | T | CHLOROFORM | 3.273 | 3.150 | 3.8 | 106 | 0.00 |
| 47 | T | 2,4-DIMETHYLPENTANE | 3.886 | 3.856 | 0.8 | 109 | 0.00 |
| 48 | T | 1,1,1-TRICHLOROETHANE | 3.373 | 3.396 | -0.7 | 108 | 0.00 |
| 49 | T | CARBON TETRACHLORIDE | 3.560 | 3.770 | -5.9 | 107 | 0.00 |
| 50 | T | 1,2-DICHLOROETHANE | 2.523 | 2.547 | -1.0 | 112 | 0.00 |
| 51 | t | BENZENE | 4.540 | 4.184 | 7.8 | 92 | 0.00 |
| 52 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 53 | T | CYCLOHEXANE | 0.349 | 0.368 | -5.4 | 107 | 0.00 |
| 54 | T | 2,3-DIMETHYLPENTANE | 0.190 | 0.198 | -4.2 | 107 | 0.00 |
| 55 | T | TRICHLOROETHENE | 0.375 | 0.402 | -7.2 | 107 | 0.00 |
| 56 | T | 1,2-DICHLOROPROPANE | 0.395 | 0.389 | 1.5 | 105 | 0.00 |
| 57 | T | DIBROMOMETHANE | 0.332 | 0.325 | 2.1 | 108 | 0.00 |
| 58 | T | ETHYL ACRYLATE | 1.001 | 1.041 | -4.0 | 104 | 0.00 |
| 59 | T | BROMODICHLOROMETHANE | 0.643 | 0.683 | -6.2 | 106 | 0.00 |
| 60 | T | 2,2,4-TRIMETHYLPENTANE | 2.036 | 2.089 | -2.6 | 106 | 0.00 |
| 61 | T | 1,4-DIOXANE | 0.189 | 0.200 | -5.8 | 107 | 0.00 |
| 62 | T | HEPTANE | 0.845 | 0.872 | -3.2 | 105 | 0.00 |
| 63 | T | METHYL METHACRYLATE | 0.325 | 0.338 | -4.0 | 106 | 0.00 |
| 64 | T | METHYL ISOBUTYL KETONE | 0.385 | 0.411 | -6.8 | 107 | 0.00 |
| 65 | T | CIS-1,3-DICHLOROPROPENE | 0.486 | 0.557 | -14.6 | 117 | 0.00 |
| 66 | T | TOLUENE | 1.050 | 1.119 | -6.6 | 107 | 0.00 |
| 67 | T | 1,3-DICHLOROPROPANE | 0.517 | 0.547 | -5.8 | 103 | 0.00 |
| 68 | T | TRANS-1,3-DICHLOROPROPENE | 0.453 | 0.501 | -10.6 | 111 | 0.00 |
| 69 | T | 1,1,2-TRICHLOROETHANE | 0.306 | 0.326 | -6.5 | 105 | 0.00 |
| 70 | T | 2-HEXANONE | 0.495 | 0.552 | -11.5 | 107 | 0.00 |
| 71 | T | ETHYL METHACRYLATE | 0.548 | 0.598 | -9.1 | 103 | 0.00 |
| 72 | T | TETRACHLOROETHENE | 0.358 | 0.387 | -8.1 | 108 | 0.00 |
| 73 | T | DIBROMOCHLOROMETHANE | 0.652 | 0.710 | -8.9 | 107 | 0.00 |
| 74 | T | 1,2-DIBROMOETHANE | 0.558 | 0.621 | -11.3 | 108 | 0.00 |
| 75 | T | OCTANE | 1.167 | 1.229 | -5.3 | 104 | 0.00 |
| 76 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 106 | 0.00 |
| 77 | T | 1,1,1,2-TETRACHLOROETHANE | 0.495 | 0.520 | -5.1 | 104 | 0.00 |
| 78 | T | CHLOROBENZENE | 0.931 | 0.974 | -4.6 | 105 | 0.00 |
| 79 | t | ETHYLBENZENE | 1.527 | 1.623 | -6.3 | 106 | 0.00 |
| 80 | t | M,P-XYLENE | 1.164 | 1.276 | -9.6 | 103 | 0.00 |
| 81 | t | O-XYLENE | 1.178 | 1.295 | -9.9 | 104 | 0.00 |
| 82 | T | STYRENE | 0.857 | 0.968 | -13.0 | 107 | 0.00 |
| 83 | T | NONANE | 1.351 | 1.373 | -1.6 | 102 | 0.00 |
| 84 | T | BROMOFORM | 0.593 | 0.704 | -18.7 | 109 | 0.00 |
| 85 | T | 1,1,2,2-TETRACHLOROETHANE | 0.831 | 0.927 | -11.6 | 102 | 0.00 |
| 86 | T | 1,2,3-TRICHLOROPROPANE | 0.636 | 0.708 | -11.3 | 104 | 0.00 |
| 87 | S | 4-BROMOFLUOROBENZENE | 0.725 | 0.746 | -2.9 | 106 | 0.00 |
| 88 | T | ISOPROPYLBENZENE | 0.442 | 0.475 | -7.5 | 102 | 0.00 |
| 89 | T | BROMOBENZENE | 0.807 | 0.852 | -5.6 | 102 | 0.00 |
| 90 | T | 2-CHLOROTOLUENE | 0.377 | 0.403 | -6.9 | 104 | 0.00 |
| 91 | T | N-PROPYLBENZENE | 0.437 | 0.491 | -12.4 | 103 | 0.00 |
| 92 | T | 4-ETHYLTOLUENE | 1.628 | 1.864 | -14.5 | 104 | 0.00 |
| 93 | T | 1,3,5-TRIMETHYLBENZENE | 1.360 | 1.539 | -13.2 | 103 | 0.00 |
| 94 | T | ALPHA-METHYLSTYRENE | 0.667 | 0.747 | -12.0 | 99 | 0.00 |
| 95 | T | TERT-BUTYLBENZENE | 0.297 | 0.324 | -9.1 | 102 | 0.00 |
| 96 | T | 1,2,4-TRIMETHYLBENZENE | 1.321 | 1.517 | -14.8 | 102 | 0.00 |

# Initial Calibration Verification

**Job Number:** JD52620 **Sample:** V2W2619-ICV2619
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W58819.D
**Project:** EPT, Ithaca, NY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 97 | T | BENZYL CHLORIDE | 1.047 | 1.117 | -6.7 | 89 | 0.00 |
| 98 | T | M-DICHLOROBENZENE | 0.733 | 0.859 | -17.2 | 103 | 0.00 |
| 99 | T | P-DICHLOROBENZENE | 0.722 | 0.851 | -17.9 | 104 | 0.00 |
| 100 | T | O-DICHLOROBENZENE | 0.684 | 0.793 | -15.9 | 102 | 0.00 |
| 101 | T | SEC-BUTYLBENZENE | 0.357 | 0.398 | -11.5 | 103 | 0.00 |
| 102 | T | 1,2,3-TRIMETHYLBENZENE | 1.271 | 1.434 | -12.8 | 103 | 0.00 |
| 103 | T | P-ISOPROPYLTOLUENE | 0.373 | 0.407 | -9.1 | 101 | 0.00 |
| 104 | T | N-BUTYLBENZENE | 0.339 | 0.392 | -15.6 | 104 | 0.00 |
| 105 | T | HEXACHLOROETHANE | 0.522 | 0.598 | -14.6 | 100 | 0.00 |
| 106 | T | HEXACHLOROBUTADIENE | 0.450 | 0.498 | -10.7 | 98 | 0.00 |
| 107 | T | 1,2,4-TRICHLOROBENZENE | 0.481 | 0.536 | -11.4 | 103 | 0.00 |
| 108 | T | NAPHTHALENE | 1.122 | 1.359 | -21.1 | 98 | 0.00 |

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

M2W2619.M Wed May 11 14:59:21 2022 GCMS2W

# Continuing Calibration Summary



**Job Number:** JD52620 **Sample:** V2W2637-CC2619
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W59298.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\
Data File : 2w59298.D
Acq On : 14 May 2022 3:47 pm
Operator : thomash
Sample : cc2619-10
Misc : MS58854,V2w2637,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 17:11:01 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 2 | T | FREON 115 | 1.991 | 1.086 | 45.5# | 53 | 0.01 |
| 3 | T | FREON 152A | 1.178 | 1.261 | -7.0 | 110 | 0.00 |
| 4 | T | CHLORODIFLUOROMETHANE | 0.534 | 0.643 | -20.4 | 125 | 0.00 |
| 5 | T | CHLOROTRIFLUOROETHENE | 2.349 | 2.466 | -5.0 | 106 | 0.00 |
| 6 | T | DICHLORODIFLUOROMETHANE | 5.297 | 5.625 | -6.2 | 107 | 0.00 |
| 7 | T | PROPYLENE | 2.155 | 2.442 | -13.3 | 117 | 0.02 |
| 8 | T | 1-CHLORO-1,1-DIFLUOROETHANE | 3.725 | 4.800 | -28.9 | 130 | 0.00 |
| 9 | T | FREON 114 | 4.374 | 4.686 | -7.1 | 104 | 0.00 |
| 10 | T | CHLOROMETHANE | 0.710 | 0.701 | 1.3 | 113 | 0.00 |
| 11 | T | VINYL CHLORIDE | 1.872 | 1.950 | -4.2 | 106 | 0.00 |
| 12 | t | 1,3-BUTADIENE | 1.792 | 1.943 | -8.4 | 110 | 0.00 |
| 13 | T | N-BUTANE | 3.678 | 3.856 | -4.8 | 115 | 0.00 |
| 14 | T | BROMOMETHANE | 1.429 | 1.425 | 0.3 | 102 | 0.00 |
| 15 | T | CHLOROETHANE | 0.911 | 0.921 | -1.1 | 103 | 0.00 |
| 16 | T | DICHLOROFLUOROMETHANE | 3.530 | 3.829 | -8.5 | 111 | 0.00 |
| 17 | T | ACETONITRILE | 1.957 | 2.090 | -6.8 | 111 | 0.00 |
| 18 | T | ACROLEIN | 0.894 | 0.842 | 5.8 | 92 | 0.00 |
| 19 | T | FREON 123 | 3.461 | 3.573 | -3.2 | 102 | 0.00 |
| 20 | T | FREON 123A | 1.977 | 2.148 | -8.6 | 107 | 0.00 |
| 21 | T | TRICHLOROFLUOROMETHANE | 4.121 | 5.049 | -22.5 | 121 | 0.00 |
| 22 | T | ISOPROPYL ALCOHOL | 4.775 | 5.063 | -6.0 | 114 | 0.00 |
| 23 | T | ACETONE | 1.126 | 1.043 | 7.4 | 105 | 0.00 |
| 24 | T | PENTANE | 2.450 | 2.662 | -8.7 | 111 | 0.00 |
| 25 | T | IODOMETHANE | 3.513 | 3.649 | -3.9 | 102 | 0.00 |
| 26 | T | 1,1-DICHLOROETHYLENE | 1.434 | 1.485 | -3.6 | 102 | 0.00 |
| 27 | T | CARBON DISULFIDE | 4.177 | 4.289 | -2.7 | 102 | 0.00 |
| 28 | T | ETHANOL | 1.059 | 1.094 | -3.3 | 110 | 0.00 |
| 29 | T | BROMOETHENE | 1.424 | 1.476 | -3.7 | 103 | 0.00 |
| 30 | T | ACRYLONITRILE | 1.630 | 1.744 | -7.0 | 110 | 0.00 |
| 31 | T | METHYLENE CHLORIDE | 1.580 | 1.349 | 14.6 | 101 | 0.00 |
| 32 | T | 3-CHLOROPROPENE | 0.660 | 0.633 | 4.1 | 94 | 0.00 |
| 33 | T | FREON 113 | 2.247 | 2.427 | -8.0 | 105 | 0.00 |
| 34 | T | TRANS-1,2-DICHLOROETHENE | 1.493 | 1.512 | -1.3 | 100 | 0.00 |
| 35 | T | TERTIARY BUTYL ALCOHOL | 4.038 | 4.616 | -14.3 | 102 | 0.00 |
| 36 | t | METHYL TERTIARY BUTYL ETHER | 4.351 | 4.635 | -6.5 | 102 | 0.00 |
| 37 | T | TETRAHYDROFURAN | 0.649 | 0.636 | 2.0 | 96 | 0.00 |
| 38 | T | HEXANE | 3.363 | 3.557 | -5.8 | 106 | 0.00 |

# Continuing Calibration Summary

**Job Number:** JD52620 **Sample:** V2W2637-CC2619
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W59298.D
**Project:** EPT, Ithaca, NY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | T | VINYL ACETATE | 0.335 | 0.350 | -4.5 | 96 | 0.00 |
| 40 | T | 1,1-DICHLOROETHANE | 3.065 | 3.362 | -9.7 | 107 | 0.00 |
| 41 | T | METHYL ETHYL KETONE | 0.691 | 0.661 | 4.3 | 94 | 0.00 |
| 42 | T | CIS-1,2-DICHLOROETHENE | 1.454 | 1.501 | -3.2 | 101 | 0.00 |
| 43 | T | DIISOPROPYL ETHER | 0.936 | 0.973 | -4.0 | 103 | 0.00 |
| 44 | T | ETHYL ACETATE | 0.608 | 0.602 | 1.0 | 97 | 0.00 |
| 45 | T | METHYL ACRYLATE | 4.304 | 4.607 | -7.0 | 106 | 0.00 |
| 46 | T | CHLOROFORM | 3.273 | 3.646 | -11.4 | 111 | 0.00 |
| 47 | T | 2,4-DIMETHYLPENTANE | 3.886 | 4.092 | -5.3 | 104 | 0.00 |
| 48 | T | 1,1,1-TRICHLOROETHANE | 3.373 | 3.987 | -18.2 | 114 | 0.00 |
| 49 | T | CARBON TETRACHLORIDE | 3.560 | 4.506 | -26.6 | 115 | 0.00 |
| 50 | T | 1,2-DICHLOROETHANE | 2.523 | 3.163 | -25.4 | 125 | 0.00 |
| 51 | t | BENZENE | 4.540 | 5.161 | -13.7 | 102 | 0.00 |
| 52 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 53 | T | CYCLOHEXANE | 0.349 | 0.362 | -3.7 | 100 | 0.00 |
| 54 | T | 2,3-DIMETHYLPENTANE | 0.190 | 0.190 | 0.0 | 98 | 0.00 |
| 55 | T | TRICHLOROETHENE | 0.375 | 0.406 | -8.3 | 103 | 0.00 |
| 56 | T | 1,2-DICHLOROPROPANE | 0.395 | 0.410 | -3.8 | 105 | 0.00 |
| 57 | T | DIBROMOMETHANE | 0.332 | 0.323 | 2.7 | 102 | 0.00 |
| 58 | T | ETHYL ACRYLATE | 1.001 | 1.132 | -13.1 | 108 | 0.00 |
| 59 | T | BROMODICHLOROMETHANE | 0.643 | 0.732 | -13.8 | 108 | 0.00 |
| 60 | T | 2,2,4-TRIMETHYLPENTANE | 2.036 | 2.270 | -11.5 | 110 | 0.00 |
| 61 | T | 1,4-DIOXANE | 0.189 | 0.182 | 3.7 | 93 | 0.00 |
| 62 | T | HEPTANE | 0.845 | 1.006 | -19.1 | 116 | 0.00 |
| 63 | T | METHYL METHACRYLATE | 0.325 | 0.324 | 0.3 | 97 | 0.00 |
| 64 | T | METHYL ISOBUTYL KETONE | 0.385 | 0.407 | -5.7 | 101 | 0.00 |
| 65 | T | CIS-1,3-DICHLOROPROPENE | 0.486 | 0.495 | -1.9 | 99 | 0.00 |
| 66 | T | TOLUENE | 1.050 | 1.082 | -3.0 | 98 | 0.00 |
| 67 | T | 1,3-DICHLOROPROPANE | 0.517 | 0.540 | -4.4 | 97 | 0.00 |
| 68 | T | TRANS-1,3-DICHLOROPROPENE | 0.453 | 0.453 | 0.0 | 96 | 0.00 |
| 69 | T | 1,1,2-TRICHLOROETHANE | 0.306 | 0.325 | -6.2 | 100 | 0.00 |
| 70 | T | 2-HEXANONE | 0.495 | 0.507 | -2.4 | 94 | 0.00 |
| 71 | T | ETHYL METHACRYLATE | 0.548 | 0.557 | -1.6 | 92 | 0.00 |
| 72 | T | TETRACHLOROETHENE | 0.358 | 0.396 | -10.6 | 105 | 0.00 |
| 73 | T | DIBROMOCHLOROMETHANE | 0.652 | 0.724 | -11.0 | 104 | 0.00 |
| 74 | T | 1,2-DIBROMOETHANE | 0.558 | 0.581 | -4.1 | 97 | 0.00 |
| 75 | T | OCTANE | 1.167 | 1.433 | -22.8 | 116 | 0.00 |
| 76 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 77 | T | 1,1,1,2-TETRACHLOROETHANE | 0.495 | 0.538 | -8.7 | 101 | 0.00 |
| 78 | T | CHLOROBENZENE | 0.931 | 0.950 | -2.0 | 96 | 0.00 |
| 79 | t | ETHYLBENZENE | 1.527 | 1.629 | -6.7 | 101 | 0.00 |
| 80 | t | M,P-XYLENE | 1.164 | 1.308 | -12.4 | 100 | 0.00 |
| 81 | t | O-XYLENE | 1.178 | 1.330 | -12.9 | 101 | 0.00 |
| 82 | T | STYRENE | 0.857 | 0.899 | -4.9 | 94 | 0.00 |
| 83 | T | NONANE | 1.351 | 1.680 | -24.4 | 117 | 0.00 |
| 84 | T | BROMOFORM | 0.593 | 0.695 | -17.2 | 101 | 0.00 |
| 85 | T | 1,1,2,2-TETRACHLOROETHANE | 0.831 | 0.949 | -14.2 | 99 | 0.00 |
| 86 | T | 1,2,3-TRICHLOROPROPANE | 0.636 | 0.724 | -13.8 | 100 | 0.00 |
| 87 | S | 4-BROMOFLUOROBENZENE | 0.725 | 0.777 | -7.2 | 104 | 0.00 |
| 88 | T | ISOPROPYLBENZENE | 0.442 | 0.486 | -10.0 | 99 | 0.00 |
| 89 | T | BROMOBENZENE | 0.807 | 0.850 | -5.3 | 96 | 0.00 |
| 90 | T | 2-CHLOROTOLUENE | 0.377 | 0.410 | -8.8 | 100 | 0.00 |
| 91 | T | N-PROPYLBENZENE | 0.437 | 0.494 | -13.0 | 98 | 0.00 |
| 92 | T | 4-ETHYLTOLUENE | 1.628 | 1.897 | -16.5 | 100 | 0.00 |
| 93 | T | 1,3,5-TRIMETHYLBENZENE | 1.360 | 1.621 | -19.2 | 102 | 0.00 |
| 94 | T | ALPHA-METHYLSTYRENE | 0.667 | 0.765 | -14.7 | 96 | 0.00 |
| 95 | T | TERT-BUTYLBENZENE | 0.297 | 0.331 | -11.4 | 99 | 0.00 |
| 96 | T | 1,2,4-TRIMETHYLBENZENE | 1.321 | 1.613 | -22.1 | 102 | 0.00 |

# Continuing Calibration Summary

**Job Number:** JD52620 **Sample:** V2W2637-CC2619
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W59298.D
**Project:** EPT, Ithaca, NY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 97 | T | BENZYL CHLORIDE | 1.047 | 1.053 | -0.6 | 79 | 0.00 |
| 98 | T | M-DICHLOROBENZENE | 0.733 | 0.834 | -13.8 | 95 | 0.00 |
| 99 | T | P-DICHLOROBENZENE | 0.722 | 0.793 | -9.8 | 91 | 0.00 |
| 100 | T | O-DICHLOROBENZENE | 0.684 | 0.802 | -17.3 | 98 | 0.00 |
| 101 | T | SEC-BUTYLBENZENE | 0.357 | 0.408 | -14.3 | 100 | 0.00 |
| 102 | T | 1,2,3-TRIMETHYLBENZENE | 1.271 | 1.526 | -20.1 | 103 | 0.00 |
| 103 | T | P-ISOPROPYLTOLUENE | 0.373 | 0.429 | -15.0 | 100 | 0.00 |
| 104 | T | N-BUTYLBENZENE | 0.339 | 0.391 | -15.3 | 98 | 0.00 |
| 105 | T | HEXACHLOROETHANE | 0.522 | 0.602 | -15.3 | 95 | 0.00 |
| 106 | T | HEXACHLOROBUTADIENE | 0.450 | 0.572 | -27.1 | 106 | 0.00 |
| 107 | T | 1,2,4-TRICHLOROBENZENE | 0.481 | 0.468 | 2.7 | 85 | 0.00 |
| 108 | T | NAPHTHALENE | 1.122 | 1.156 | -3.0 | 79 | 0.00 |

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

M2W2619.M Sat May 14 18:51:09 2022 GCMS2W

# Initial Calibration Summary



**Job Number:** JD52620 **Sample:** V2W2709-ICC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61016.D
**Project:** EPT, Ithaca, NY

Response Factor Report MS2W

Method : C:\msdchem\1\METHODS\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Wed Aug 24 16:16:55 2022
Response via : Initial Calibration

Calibration Files
0.5 =2w61013.D 0.2 =2w61012.D 40 =2w61018.D 0.04=2w61010.D
5 =2w61015.D 10 =2w61016.D 20 =2w61017.D 0.1 =2w61011.D
50 =2w61019.D =

| Compound | 0.5 | 0.2 | 40 | 0.04 | 5 | 10 | 20 | 0.1 | 50 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) I BROMOCHLOROMETHANE | ----------ISTD---------- | | | | | | | | | | |
| 2) FREON 115 | | | | | | | | | | 0.000 | -1.00 |
| 3) FREON 152A | 0.838 | 0.825 | 0.806 | 0.879 | 0.869 | 0.830 | 0.863 | 0.815 | | 0.841 | 3.17 |
| 4) CHLORODIFLUOROMETHANE | 0.372 | 0.363 | 0.362 | 0.399 | 0.399 | 0.373 | 0.348 | 0.372 | | 0.373 | 4.71 |
| 5) CHLOROTRIFLUOROETHENE | 2.153 | 2.129 | 2.081 | 2.302 | 2.239 | 2.145 | 2.142 | 2.092 | | 2.160 | 3.44 |
| 6) DICHLORODIFLUOROMETHANE | 4.762 | 4.819 | 4.906 | 5.202 | 5.120 | 4.926 | 5.171 | 4.897 | | 4.975 | 3.35 |
| 7) PROPYLENE | 0.914 | 0.967 | 0.834 | 0.972 | 0.928 | 0.871 | 1.162 | 0.865 | | 0.939 | 10.91 |
| 8) 1-CHLORO-1,1-DIFLUOROETHANE | 3.571 | 3.624 | 3.719 | 3.900 | 3.869 | 3.704 | 3.759 | 3.819 | | 3.746 | 3.06 |
| 9) FREON 114 | 4.333 | 4.434 | 4.426 | 4.704 | 4.590 | 4.410 | 4.427 | 4.525 | | 4.481 | 2.65 |
| 10) CHLOROMETHANE | 0.506 | 0.550 | 0.451 | 0.514 | 0.494 | 0.470 | 0.572 | 0.452 | | 0.501 | 8.74 |
| 11) VINYL CHLORIDE | 1.663 | 1.686 | 1.644 | 1.860 | 1.810 | 1.702 | 1.894 | 1.665 | | 1.740 | 5.66 |
| 12) 1,3-BUTADIENE | 1.366 | 1.370 | 1.281 | 1.439 | 1.397 | 1.310 | 1.299 | 1.289 | | 1.344 | 4.28 |
| 13) N-BUTANE | 2.269 | 2.553 | 2.107 | 2.376 | 2.259 | 2.147 | 2.874 | 2.138 | | 2.340 | 11.13 |
| 14) BROMOMETHANE | 1.503 | 1.613 | 1.479 | 1.640 | 1.587 | 1.512 | 1.744 | 1.500 | | 1.572 | 5.81 |
| 15) CHLOROETHANE | 0.903 | 0.856 | 0.907 | 1.013 | 0.976 | 0.923 | 0.968 | 0.902 | | 0.931 | 5.44 |
| 16) DICHLOROFLUOROMETHANE | 3.598 | 3.694 | 3.583 | 3.922 | 3.830 | 3.629 | 3.741 | 3.638 | | 3.704 | 3.24 |
| 17) ACETONITRILE | 1.365 | 1.494 | 1.251 | 1.429 | 1.376 | 1.297 | 1.656 | 1.264 | | 1.391 | 9.73 |
| 18) ACROLEIN | 0.319 | 0.337 | 0.744 | 0.842 | 0.810 | 0.772 | 0.330 | 0.758 | | 0.614 | 38.79 |
| 19) FREON 123 | 3.923 | 3.981 | 4.088 | 4.370 | 4.246 | 4.078 | 4.038 | 4.209 | | 4.117 | 3.60 |
| 20) FREON 123A | 2.244 | 2.227 | 2.340 | 2.508 | 2.458 | 2.356 | 2.519 | 2.399 | | 2.381 | 4.67 |
| 21) TRICHLOROFLUOROMETHANE | 4.929 | 4.902 | 5.160 | 5.621 | 5.405 | 5.201 | 4.954 | 5.246 | | 5.177 | 4.86 |
| 22) ISOPROPYL ALCOHOL | 4.300 | 4.269 | 3.712 | 4.118 | 3.969 | 3.743 | 5.126 | 3.820 | | 4.132 | 11.16 |
| 23) ACETONE | | | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1.566 | 1.798 | 1.023 | 1.159 | 1.103 | 1.038 | 1.821 | 1.034 | 1.318 | 26.64 |
| 24) | PENTANE | | | | | | | | | |
| | 2.200 | 2.462 | 2.047 | 2.324 | 2.206 | 2.070 | 2.693 | 2.112 | 2.264 | 9.77 |
| 25) | IODOMETHANE | | | | | | | | | |
| | 4.826 | 4.903 | 4.952 | 5.421 | 5.220 | 4.997 | 5.092 | 5.077 | 5.061 | 3.75 |
| 26) | 1,1-DICHLOROETHYLENE | | | | | | | | | |
| | 1.840 | 1.956 | 1.925 | 2.169 | 2.055 | 1.953 | 2.020 | 1.978 | 1.987 | 4.91 |
| 27) | CARBON DISULFIDE | | | | | | | | | |
| | 5.500 | 5.433 | 6.228 | 6.322 | 6.234 | 6.009 | 5.668 | 6.481 | 5.984 | 6.69 |
| 28) | ETHANOL | | | | | | | | | |
| | 0.938 | 1.040 | 0.635 | 0.703 | 0.683 | 0.640 | 1.231 | 0.638 | 0.813 | 28.02 |
| 29) | BROMOETHENE | | | | | | | | | |
| | 1.567 | 1.573 | 1.591 | 1.739 | 1.702 | 1.612 | 1.461 | 1.603 | 1.606 | 5.30 |
| 30) | ACRYLONITRILE | | | | | | | | | |
| | 1.532 | 1.618 | 1.471 | 1.706 | 1.642 | 1.514 | 1.508 | 1.496 | 1.561 | 5.35 |
| 31) | METHYLENE CHLORIDE | | | | | | | | | |
| | 2.181 | 2.729 | 1.734 | 2.004 | 1.907 | 1.773 | 3.559 | 1.755 | 2.205 | 28.94 |
| 32) | 3-CHLOROPROPENE | | | | | | | | | |
| | 1.089 | 1.098 | 0.947 | 1.054 | 1.007 | 0.955 | 1.032 | 0.974 | 1.020 | 5.73 |
| 33) | FREON 113 | | | | | | | | | |
| | 3.110 | 3.182 | 3.390 | 3.562 | 3.457 | 3.346 | 3.225 | 3.519 | 3.349 | 4.89 |
| 34) | TRANS-1,2-DICHLOROETHENE | | | | | | | | | |
| | 1.598 | 1.652 | 1.617 | 1.790 | 1.709 | 1.623 | 1.626 | 1.623 | 1.655 | 3.87 |
| 35) | TERTIARY BUTYL ALCOHOL | | | | | | | | | |
| | 4.966 | 5.245 | 5.039 | 5.455 | 5.245 | 5.002 | 5.464 | 5.234 | 5.206 | 3.70 |
| 36) | METHYL TERTIARY BUTYL ETHER | | | | | | | | | |
| | 4.108 | 4.159 | 4.200 | 4.533 | 4.346 | 4.204 | 4.399 | 4.339 | 4.286 | 3.32 |
| 37) | TETRAHYDROFURAN | | | | | | | | | |
| | 0.701 | 0.710 | 0.734 | 0.821 | 0.801 | 0.754 | 0.522 | 0.740 | 0.723 | 12.60 |
| 38) | HEXANE | | | | | | | | | |
| | 2.686 | 2.707 | 2.983 | 3.064 | 2.974 | 2.883 | 2.733 | 3.087 | 2.890 | 5.61 |
| 39) | VINYL ACETATE | | | | | | | | | |
| | 0.394 | 0.330 | 0.442 | 0.438 | 0.451 | 0.444 | 0.310 | 0.449 | 0.407 | 14.02 |
| 40) | 1,1-DICHLOROETHANE | | | | | | | | | |
| | 2.855 | 3.072 | 2.888 | 3.174 | 3.050 | 2.919 | 2.786 | 2.946 | 2.961 | 4.32 |
| 41) | METHYL ETHYL KETONE | | | | | | | | | |
| | 0.705 | 0.708 | 0.754 | 0.840 | 0.800 | 0.775 | 0.541 | 0.768 | 0.736 | 12.32 |
| 42) | CIS-1,2-DICHLOROETHENE | | | | | | | | | |
| | 1.764 | 1.801 | 1.686 | 1.898 | 1.824 | 1.751 | 1.766 | 1.722 | 1.776 | 3.66 |
| 43) | DIISOPROPYL ETHER | | | | | | | | | |
| | 0.751 | 0.796 | 0.884 | 0.896 | 0.872 | 0.856 | 0.797 | 0.918 | 0.846 | 6.91 |
| 44) | ETHYL ACETATE | | | | | | | | | |
| | 0.516 | 0.501 | 0.624 | 0.641 | 0.616 | 0.602 | | 0.646 | 0.592 | 9.99 |
| 45) | METHYL ACRYLATE | | | | | | | | | |
| | 3.029 | 2.824 | 3.666 | 3.700 | 3.647 | 3.541 | 2.972 | 3.806 | 3.398 | 11.44 |
| 46) | CHLOROFORM | | | | | | | | | |
| | 3.475 | 3.504 | 3.589 | 3.867 | 3.695 | 3.565 | 3.587 | 3.673 | 3.619 | 3.44 |
| 47) | 2,4-DIMETHYLPENTANE | | | | | | | | | |
| | 3.337 | 3.430 | 3.242 | 3.600 | 3.413 | 3.267 | 3.345 | 3.303 | 3.367 | 3.39 |
| 48) | 1,1,1-TRICHLOROETHANE | | | | | | | | | |
| | 3.364 | 3.500 | 3.611 | 3.841 | 3.752 | 3.656 | 3.447 | 3.706 | 3.609 | 4.50 |
| 49) | CARBON TETRACHLORIDE | | | | | | | | | |
| | 3.168 | 3.172 | 3.789 | 3.823 | 3.833 | 3.765 | 3.166 | 3.894 | 3.576 | 9.49 |
| 50) | 1,2-DICHLOROETHANE | | | | | | | | | |
| | 2.487 | 2.397 | 2.374 | 2.626 | 2.541 | 2.417 | 2.316 | 2.454 | 2.451 | 4.03 |
| 51) | BENZENE | | | | | | | | | |
| | 5.070 | 5.326 | 4.919 | 5.498 | 5.233 | 5.030 | 5.280 | 4.976 | 5.167 | 3.86 |
| 52) | I 1,4-DIFLUOROBENZENE | ---------- | ISTD | ---------- | | | | | | |
| 53) | CYCLOHEXANE | | | | | | | | | |

# Initial Calibration Summary

**Job Number:** JD52620 **Sample:** V2W2709-ICC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61016.D
**Project:** EPT, Ithaca, NY

```
          0.413 0.424 0.411       0.449 0.433 0.413 0.416 0.418   0.422    3.07
54)  2,3-DIMETHYLPENTANE
          0.204 0.196 0.207       0.222 0.215 0.206 0.195 0.212   0.207    4.37
55)  TRICHLOROETHENE
          0.425 0.404 0.447 0.320 0.470 0.457 0.442 0.394 0.457   0.424   10.95
56)  1,2-DICHLOROPROPANE
          0.373 0.374 0.377       0.402 0.387 0.374 0.383 0.383   0.382    2.57
57)  DIBROMOMETHANE
          0.444 0.444 0.423       0.448 0.432 0.419 0.449 0.429   0.436    2.71
58)  ETHYL ACRYLATE
          0.578 0.569 0.802       0.813 0.790 0.773 0.587 0.827   0.717   16.27
59)  BROMODICHLOROMETHANE
          0.630 0.616 0.749       0.748 0.747 0.729 0.617 0.763   0.700    9.43
60)  2,2,4-TRIMETHYLPENTANE
          1.662 1.696 1.665       1.773 1.700 1.631 1.683 1.706   1.689    2.47
61)  1,4-DIOXANE
          0.201 0.172 0.211       0.219 0.210 0.206       0.215   0.205    7.62
62)  HEPTANE
          0.497 0.540 0.529       0.557 0.532 0.512 0.539 0.549   0.532    3.66
63)  METHYL METHACRYLATE
          0.259 0.259 0.355       0.372 0.363 0.350 0.288 0.361   0.326   14.90
64)  METHYL ISOBUTYL KETONE
          0.203 0.208 0.307       0.322 0.312 0.300 0.211 0.315   0.272   19.93
65)  CIS-1,3-DICHLOROPROPENE
          0.454 0.430 0.559       0.555 0.546 0.541 0.390 0.571   0.506   13.83
66)  TOLUENE
          1.160 1.113 1.205       1.264 1.238 1.195 1.241 1.228   1.206    4.09
67)  1,3-DICHLOROPROPANE
          0.534 0.533 0.582       0.613 0.600 0.574 0.554 0.592   0.573    5.20
68)  TRANS-1,3-DICHLOROPROPENE
          0.374 0.327 0.526       0.487 0.503 0.502 0.371 0.538   0.453   18.09
69)  1,1,2-TRICHLOROETHANE
          0.362 0.326 0.356       0.377 0.361 0.351 0.332 0.360   0.353    4.74
70)  2-HEXANONE
          0.085 0.075 0.384       0.381 0.382 0.373 0.062 0.394   0.267   59.92
           ----- Linear regression -----  Coefficient =  0.9996
             Response Ratio = -0.01215 + 0.39178 *A

71)  ETHYL METHACRYLATE
          0.330 0.303 0.568       0.564 0.571 0.557 0.326 0.580   0.475   27.13
72)  TETRACHLOROETHENE
          0.486 0.496 0.471 0.463 0.498 0.491 0.469 0.493 0.478   0.483    2.66
73)  DIBROMOCHLOROMETHANE
          0.550 0.528 0.791       0.752 0.768 0.766 0.537 0.809   0.688   18.18
74)  1,2-DIBROMOETHANE
          0.595 0.567 0.673       0.701 0.690 0.667 0.569 0.684   0.643    8.76
75)  OCTANE
          0.678 0.680 0.729       0.761 0.734 0.709 0.674 0.751   0.715    4.81

76) I   CHLOROBENZENE-D5      ----------------ISTD--------------------
77)  1,1,1,2-TETRACHLOROETHANE
          0.454 0.469 0.594       0.579 0.573 0.568 0.489 0.608   0.542   11.21
78)  CHLOROBENZENE
          1.037 1.051 1.098       1.127 1.093 1.060 1.024 1.108   1.075    3.44
79)  ETHYLBENZENE
          1.660 1.581 1.764       1.856 1.775 1.716 1.568 1.783   1.713    5.96
80)  M,P-XYLENE
          1.240 1.186 1.347       1.415 1.362 1.309 1.201 1.364   1.303    6.48
81)  O-XYLENE
          1.223 1.258 1.393       1.437 1.388 1.340 1.201 1.417   1.332    6.94
```

# Initial Calibration Summary

**Job Number:** JD52620 **Sample:** V2W2709-ICC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61016.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 82) | STYRENE | | | | | | | | | | |
| | | 0.838 | 0.779 | 1.051 | 1.079 | 1.060 | 1.019 | 0.732 | 1.067 | 0.953 | 15.20 |
| 83) | NONANE | | | | | | | | | | |
| | | 0.795 | 0.771 | 0.846 | 0.868 | 0.834 | 0.800 | 0.796 | 0.869 | 0.822 | 4.50 |
| 84) | BROMOFORM | | | | | | | | | | |
| | | 0.451 | 0.392 | 0.829 | 0.748 | 0.771 | 0.782 | | 0.850 | 0.689 | 27.08 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | | | | | | | | | | |
| | | 0.942 | 0.925 | 1.030 | 1.054 | 1.021 | 0.987 | 0.920 | 1.050 | 0.991 | 5.60 |
| 86) | 1,2,3-TRICHLOROPROPANE | | | | | | | | | | |
| | | 0.728 | 0.674 | 0.736 | 0.779 | 0.746 | 0.711 | 0.693 | 0.750 | 0.727 | 4.65 |
| 87) | 4-BROMOFLUOROBENZENE | | | | | | | | | | |
| | | 0.661 | 0.647 | 0.681 | 0.648 | 0.673 | 0.673 | 0.666 | 0.651 | 0.692 | 0.666 | 2.34 |
| 88) | ISOPROPYLBENZENE | | | | | | | | | | |
| | | 0.531 | 0.523 | 0.582 | 0.616 | 0.588 | 0.566 | 0.521 | 0.590 | 0.565 | 6.33 |
| 89) | BROMOBENZENE | | | | | | | | | | |
| | | 0.915 | 0.859 | 0.948 | 0.987 | 0.950 | 0.915 | 0.835 | 0.967 | 0.922 | 5.70 |
| 90) | 2-CHLOROTOLUENE | | | | | | | | | | |
| | | 0.469 | 0.424 | 0.489 | 0.516 | 0.492 | 0.479 | 0.428 | 0.498 | 0.474 | 6.92 |
| 91) | N-PROPYLBENZENE | | | | | | | | | | |
| | | 0.495 | 0.447 | 0.552 | 0.577 | 0.558 | 0.538 | 0.423 | 0.561 | 0.519 | 11.10 |
| 92) | 4-ETHYLTOLUENE | | | | | | | | | | |
| | | 1.751 | 1.576 | 2.103 | 2.113 | 2.039 | 2.004 | 1.555 | 2.152 | 1.912 | 12.89 |
| 93) | 1,3,5-TRIMETHYLBENZENE | | | | | | | | | | |
| | | 1.453 | 1.357 | 1.755 | 1.748 | 1.681 | 1.665 | 1.306 | 1.797 | 1.595 | 12.13 |
| 94) | ALPHA-METHYLSTYRENE | | | | | | | | | | |
| | | 0.537 | 0.491 | 0.777 | 0.775 | 0.745 | 0.736 | 0.513 | 0.795 | 0.671 | 19.73 |
| 95) | TERT-BUTYLBENZENE | | | | | | | | | | |
| | | 0.356 | 0.358 | 0.463 | 0.442 | 0.427 | 0.424 | 0.312 | 0.482 | 0.408 | 14.57 |
| 96) | 1,2,4-TRIMETHYLBENZENE | | | | | | | | | | |
| | | 1.466 | 1.362 | 2.000 | 1.823 | 1.764 | 1.806 | 1.339 | 2.080 | 1.705 | 16.65 |
| 97) | BENZYL CHLORIDE | | | | | | | | | | |
| | | 0.553 | 0.489 | 1.443 | 1.001 | 1.134 | 1.265 | | 1.505 | 1.056 | 38.24 |
| 98) | M-DICHLOROBENZENE | | | | | | | | | | |
| | | 1.019 | 0.948 | 1.230 | 1.229 | 1.163 | 1.159 | 0.954 | 1.263 | 1.121 | 11.43 |
| 99) | P-DICHLOROBENZENE | | | | | | | | | | |
| | | 1.035 | 0.926 | 1.250 | 1.226 | 1.176 | 1.173 | 1.022 | 1.279 | 1.136 | 11.11 |
| 100) | O-DICHLOROBENZENE | | | | | | | | | | |
| | | 0.969 | 0.965 | 1.235 | 1.161 | 1.117 | 1.125 | 0.950 | 1.303 | 1.103 | 11.94 |
| 101) | SEC-BUTYLBENZENE | | | | | | | | | | |
| | | 0.436 | 0.480 | 0.561 | 0.552 | 0.522 | 0.519 | 0.402 | 0.585 | 0.507 | 12.49 |
| 102) | 1,2,3-TRIMETHYLBENZENE | | | | | | | | | | |
| | | 1.423 | 1.351 | 1.809 | 1.771 | 1.690 | 1.694 | 1.312 | 1.851 | 1.613 | 13.41 |
| 103) | P-ISOPROPYLTOLUENE | | | | | | | | | | |
| | | 0.479 | 0.471 | 0.646 | 0.581 | 0.575 | 0.580 | 0.447 | 0.690 | 0.559 | 15.50 |
| 104) | N-BUTYLBENZENE | | | | | | | | | | |
| | | 0.428 | 0.395 | 0.615 | 0.553 | 0.542 | 0.547 | 0.399 | 0.654 | 0.517 | 19.07 |
| 105) | HEXACHLOROETHANE | | | | | | | | | | |
| | | 0.370 | 0.361 | 0.824 | 0.634 | 0.665 | 0.709 | | 0.868 | 0.633 | 31.73 |
| 106) | HEXACHLOROBUTADIENE | | | | | | | | | | |
| | | 0.745 | 0.666 | 1.121 | 0.798 | 0.803 | 0.846 | 0.647 | 1.299 | 0.866 | 26.34 |
| 107) | 1,2,4-TRICHLOROBENZENE | | | | | | | | | | |
| | | 0.758 | 0.662 | 1.172 | 0.909 | 0.933 | 0.979 | 0.581 | 1.314 | 0.914 | 27.13 |
| 108) | NAPHTHALENE | | | | | | | | | | |
| | | 1.746 | 1.430 | 2.909 | 2.216 | 2.325 | 2.453 | | 3.260 | 2.334 | 26.98 |

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

M2W2709.M Wed Aug 24 16:24:15 2022 GCMS2W

# Initial Calibration Verification



**Job Number:** JD52620 **Sample:** V2W2709-ICV2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61022.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\2w61022.D Vial: 4
Acq On : 19 Aug 2022 6:00 pm Operator: thomash
Sample : icv2709-10 Inst : MS2W
Misc : MS61038,V2w2709,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Wed Aug 24 16:16:55 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 3.61 |
| 2 | T | FREON 115 | 0.000 | 0.799 | 0.0 | 0# | 0.00 | 1.80 |
| 3 | T | FREON 152A | 0.841 | 0.802 | 4.6 | 94 | 0.00 | 1.85 |
| 4 | T | CHLORODIFLUOROMETHANE | 0.373 | 0.359 | 3.8 | 91 | 0.00 | 1.86 |
| 5 | T | CHLOROTRIFLUOROETHENE | 2.160 | 2.085 | 3.5 | 94 | 0.00 | 1.88 |
| 6 | T | DICHLORODIFLUOROMETHANE | 4.975 | 4.731 | 4.9 | 94 | 0.00 | 1.90 |
| 7 | T | PROPYLENE | 0.939 | 0.869 | 7.5 | 95 | 0.00 | 1.87 |
| 8 | T | 1-CHLORO-1,1-DIFLUOROETHA | 3.746 | 3.571 | 4.7 | 94 | 0.00 | 1.95 |
| 9 | T | FREON 114 | 4.481 | 4.236 | 5.5 | 94 | 0.00 | 1.99 |
| 10 | T | CHLOROMETHANE | 0.501 | 0.453 | 9.6 | 93 | 0.00 | 1.96 |
| 11 | T | VINYL CHLORIDE | 1.740 | 1.663 | 4.4 | 93 | 0.00 | 2.04 |
| 12 | t | 1,3-BUTADIENE | 1.344 | 1.273 | 5.3 | 93 | 0.00 | 2.09 |
| 13 | T | N-BUTANE | 2.340 | 2.101 | 10.2 | 94 | 0.00 | 2.11 |
| 14 | T | BROMOMETHANE | 1.572 | 1.470 | 6.5 | 94 | 0.00 | 2.19 |
| 15 | T | CHLOROETHANE | 0.931 | 0.924 | 0.8 | 96 | 0.00 | 2.25 |
| 16 | T | DICHLOROFLUOROMETHANE | 3.704 | 3.487 | 5.9 | 92 | 0.00 | 2.28 |
| 17 | T | ACETONITRILE | 1.391 | 1.239 | 10.9 | 91 | 0.00 | 2.37 |
| 18 | T | ACROLEIN | 0.614 | 0.815 | -32.7# | 102 | 0.00 | 2.42 |
| 19 | T | FREON 123 | 4.117 | 4.016 | 2.5 | 96 | 0.00 | 2.43 |
| 20 | T | FREON 123A | 2.381 | 2.491 | -4.6 | 103 | 0.00 | 2.45 |
| 21 | T | TRICHLOROFLUOROMETHANE | 5.177 | 5.003 | 3.4 | 94 | 0.00 | 2.52 |
| 22 | T | ISOPROPYL ALCOHOL | 4.132 | 3.615 | 12.5 | 92 | 0.00 | 2.53 |
| 23 | T | ACETONE | 1.318 | 0.972 | 26.3 | 89 | 0.00 | 2.46 |
| 24 | T | PENTANE | 2.264 | 2.016 | 11.0 | 93 | 0.00 | 2.63 |
| 25 | T | IODOMETHANE | 5.061 | 4.918 | 2.8 | 96 | 0.00 | 2.69 |
| 26 | T | 1,1-DICHLOROETHYLENE | 1.987 | 1.876 | 5.6 | 93 | 0.00 | 2.71 |
| 27 | T | CARBON DISULFIDE | 5.984 | 5.333 | 10.9 | 87 | 0.00 | 2.84 |
| 28 | T | ETHANOL | 0.813 | 0.714 | 12.2 | 106 | 0.00 | 2.29 |
| 29 | T | BROMOETHENE | 1.606 | 1.553 | 3.3 | 93 | 0.00 | 2.38 |
| 30 | T | ACRYLONITRILE | 1.561 | 1.457 | 6.7 | 90 | 0.00 | 2.60 |
| 31 | T | METHYLENE CHLORIDE | 2.205 | 1.726 | 21.7 | 92 | 0.00 | 2.75 |
| 32 | T | 3-CHLOROPROPENE | 1.020 | 0.940 | 7.8 | 95 | 0.00 | 2.79 |
| 33 | T | FREON 113 | 3.349 | 3.141 | 6.2 | 92 | 0.00 | 2.84 |
| 34 | T | TRANS-1,2-DICHLOROETHENE | 1.655 | 1.581 | 4.5 | 94 | 0.00 | 3.08 |
| 35 | T | TERTIARY BUTYL ALCOHOL | 5.206 | 4.523 | 13.1 | 87 | 0.00 | 2.72 |
| 36 | t | METHYL TERTIARY BUTYL ETH | 4.286 | 4.168 | 2.8 | 97 | 0.00 | 3.19 |
| 37 | T | TETRAHYDROFURAN | 0.723 | 0.750 | -3.7 | 95 | 0.00 | 3.90 |
| 38 | T | HEXANE | 2.890 | 2.847 | 1.5 | 97 | 0.00 | 3.66 |
| 39 | T | VINYL ACETATE | 0.407 | 0.441 | -8.4 | 99 | 0.00 | 3.23 |
| 40 | T | 1,1-DICHLOROETHANE | 2.961 | 2.914 | 1.6 | 97 | 0.00 | 3.16 |
| 41 | T | METHYL ETHYL KETONE | 0.736 | 0.790 | -7.3 | 100 | 0.00 | 3.33 |
| 42 | T | CIS-1,2-DICHLOROETHENE | 1.776 | 1.721 | 3.1 | 96 | 0.00 | 3.53 |

# Initial Calibration Verification

**Job Number:** JD52620 **Sample:** V2W2709-ICV2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61022.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 43 | T | DIISOPROPYL ETHER | 0.846 | 0.835 | 1.3 | 97 | 0.00 | 3.67 |
| 44 | T | ETHYL ACETATE | 0.592 | 0.595 | -0.5 | 98 | 0.00 | 3.67 |
| 45 | T | METHYL ACRYLATE | 3.398 | 3.436 | -1.1 | 96 | 0.00 | 3.66 |
| 46 | T | CHLOROFORM | 3.619 | 3.446 | 4.8 | 95 | 0.00 | 3.69 |
| 47 | T | 2,4-DIMETHYLPENTANE | 3.367 | 3.239 | 3.8 | 96 | 0.00 | 4.19 |
| 48 | T | 1,1,1-TRICHLOROETHANE | 3.609 | 3.571 | 1.1 | 97 | 0.00 | 4.28 |
| 49 | T | CARBON TETRACHLORIDE | 3.576 | 3.661 | -2.4 | 97 | 0.00 | 4.71 |
| 50 | T | 1,2-DICHLOROETHANE | 2.451 | 2.434 | 0.7 | 97 | 0.00 | 4.11 |
| 51 | t | BENZENE | 5.167 | 5.034 | 2.6 | 98 | 0.00 | 4.60 |
| 52 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 4.93 |
| 53 | T | CYCLOHEXANE | 0.422 | 0.410 | 2.8 | 97 | 0.00 | 4.81 |
| 54 | T | 2,3-DIMETHYLPENTANE | 0.207 | 0.206 | 0.5 | 98 | 0.00 | 5.07 |
| 55 | T | TRICHLOROETHENE | 0.424 | 0.432 | -1.9 | 97 | 0.00 | 5.52 |
| 56 | T | 1,2-DICHLOROPROPANE | 0.382 | 0.365 | 4.5 | 97 | 0.00 | 5.28 |
| 57 | T | DIBROMOMETHANE | 0.436 | 0.408 | 6.4 | 97 | 0.00 | 5.24 |
| 58 | T | ETHYL ACRYLATE | 0.717 | 0.769 | -7.3 | 100 | 0.00 | 5.40 |
| 59 | T | BROMODICHLOROMETHANE | 0.700 | 0.697 | 0.4 | 95 | 0.00 | 5.46 |
| 60 | T | 2,2,4-TRIMETHYLPENTANE | 1.689 | 1.611 | 4.6 | 97 | 0.00 | 5.62 |
| 61 | T | 1,4-DIOXANE | 0.205 | 0.223 | -8.8 | 109 | 0.00 | 5.53 |
| 62 | T | HEPTANE | 0.532 | 0.506 | 4.9 | 97 | 0.00 | 5.94 |
| 63 | T | METHYL METHACRYLATE | 0.326 | 0.348 | -6.7 | 98 | 0.00 | 5.83 |
| 64 | T | METHYL ISOBUTYL KETONE | 0.272 | 0.321 | -18.0 | 105 | 0.00 | 6.57 |
| 65 | T | CIS-1,3-DICHLOROPROPENE | 0.506 | 0.561 | -10.9 | 105 | 0.00 | 6.47 |
| 66 | T | TOLUENE | 1.206 | 1.177 | 2.4 | 97 | 0.00 | 7.70 |
| 67 | T | 1,3-DICHLOROPROPANE | 0.573 | 0.562 | 1.9 | 96 | 0.00 | 7.76 |
| 68 | T | TRANS-1,3-DICHLOROPROPENE | 0.453 | 0.484 | -6.8 | 99 | 0.00 | 7.16 |
| 69 | T | 1,1,2-TRICHLOROETHANE | 0.353 | 0.341 | 3.4 | 96 | 0.00 | 7.32 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 70 | T | 2-HEXANONE | 10.000 | 11.064 | -10.6 | 113 | 0.00 | 8.26 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 71 | T | ETHYL METHACRYLATE | 0.475 | 0.574 | -20.8 | 103 | 0.00 | 8.40 |
| 72 | T | TETRACHLOROETHENE | 0.483 | 0.464 | 3.9 | 97 | 0.00 | 9.45 |
| 73 | T | DIBROMOCHLOROMETHANE | 0.688 | 0.725 | -5.4 | 97 | 0.00 | 8.24 |
| 74 | T | 1,2-DIBROMOETHANE | 0.643 | 0.661 | -2.8 | 98 | 0.00 | 8.59 |
| 75 | T | OCTANE | 0.715 | 0.695 | 2.8 | 97 | 0.00 | 9.59 |
| 76 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 100 | 0.00 | 10.59 |
| 77 | T | 1,1,1,2-TETRACHLOROETHANE | 0.542 | 0.558 | -3.0 | 98 | 0.00 | 10.67 |
| 78 | T | CHLOROBENZENE | 1.075 | 1.071 | 0.4 | 98 | 0.00 | 10.66 |
| 79 | t | ETHYLBENZENE | 1.713 | 1.721 | -0.5 | 97 | 0.00 | 11.55 |
| 80 | t | M,P-XYLENE | 1.303 | 1.328 | -1.9 | 98 | 0.00 | 11.98 |
| 81 | t | O-XYLENE | 1.332 | 1.363 | -2.3 | 98 | 0.00 | 12.92 |
| 82 | T | STYRENE | 0.953 | 1.064 | -11.6 | 100 | 0.00 | 12.70 |
| 83 | T | NONANE | 0.822 | 0.811 | 1.3 | 97 | 0.00 | 14.03 |
| 84 | T | BROMOFORM | 0.689 | 0.778 | -12.9 | 101 | 0.00 | 11.79 |
| 85 | T | 1,1,2,2-TETRACHLOROETHANE | 0.991 | 1.000 | -0.9 | 98 | 0.00 | 12.92 |
| 86 | T | 1,2,3-TRICHLOROPROPANE | 0.727 | 0.718 | 1.2 | 96 | 0.00 | 13.21 |
| 87 | S | 4-BROMOFLUOROBENZENE | 0.666 | 0.681 | -2.3 | 101 | 0.00 | 13.96 |
| 88 | T | ISOPROPYLBENZENE | 0.565 | 0.520 | 8.0 | 89 | 0.00 | 14.44 |
| 89 | T | BROMOBENZENE | 0.922 | 0.913 | 1.0 | 96 | 0.00 | 14.31 |
| 90 | T | 2-CHLOROTOLUENE | 0.474 | 0.484 | -2.1 | 99 | 0.00 | 15.44 |
| 91 | T | N-PROPYLBENZENE | 0.519 | 0.541 | -4.2 | 97 | 0.00 | 15.78 |
| 92 | T | 4-ETHYLTOLUENE | 1.912 | 2.021 | -5.7 | 99 | 0.00 | 16.15 |
| 93 | T | 1,3,5-TRIMETHYLBENZENE | 1.595 | 1.676 | -5.1 | 100 | 0.00 | 16.30 |
| 94 | T | ALPHA-METHYLSTYRENE | 0.671 | 0.861 | -28.3 | 116 | 0.00 | 16.50 |
| 95 | T | TERT-BUTYLBENZENE | 0.408 | 0.417 | -2.2 | 98 | 0.00 | 16.76 |
| 96 | T | 1,2,4-TRIMETHYLBENZENE | 1.705 | 1.774 | -4.0 | 101 | 0.00 | 16.77 |

# Initial Calibration Verification

**Job Number:** JD52620 **Sample:** V2W2709-ICV2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61022.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 97 | T | BENZYL CHLORIDE | 1.056 | 1.208 | -14.4 | 107 | 0.00 | 16.85 |
| 98 | T | M-DICHLOROBENZENE | 1.121 | 1.163 | -3.7 | 100 | 0.00 | 16.83 |
| 99 | T | P-DICHLOROBENZENE | 1.136 | 1.177 | -3.6 | 100 | 0.00 | 16.91 |
| 100 | T | O-DICHLOROBENZENE | 1.103 | 1.126 | -2.1 | 101 | 0.00 | 17.21 |
| 101 | T | SEC-BUTYLBENZENE | 0.507 | 0.513 | -1.2 | 98 | 0.00 | 17.04 |
| 102 | T | 1,2,3-TRIMETHYLBENZENE | 1.613 | 1.680 | -4.2 | 100 | 0.00 | 17.15 |
| 103 | T | P-ISOPROPYLTOLUENE | 0.559 | 0.565 | -1.1 | 98 | 0.00 | 17.22 |
| 104 | T | N-BUTYLBENZENE | 0.517 | 0.549 | -6.2 | 101 | 0.00 | 17.57 |
| 105 | T | HEXACHLOROETHANE | 0.633 | 0.682 | -7.7 | 103 | 0.00 | 17.74 |
| 106 | T | HEXACHLOROBUTADIENE | 0.866 | 0.818 | 5.5 | 102 | 0.00 | 18.79 |
| 107 | T | 1,2,4-TRICHLOROBENZENE | 0.914 | 0.983 | -7.5 | 106 | 0.00 | 18.48 |
| 108 | T | NAPHTHALENE | 2.334 | 2.276 | 2.5 | 98 | 0.00 | 18.53 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2w61016.D M2W2709.M Wed Aug 24 20:27:06 2022

# Continuing Calibration Summary



**Job Number:** JD52620 **Sample:** V2W2710-CC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61024.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\2w61024.D Vial: 2
Acq On : 24 Aug 2022 8:00 pm Operator: thomash
Sample : cc2709-10 Inst : MS2W
Misc : MS61038,V2w2710,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Wed Aug 24 16:16:55 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 109 | 0.00 | 3.62 |
| 2 | T | FREON 115 | 0.000 | 0.798 | 0.0 | 0# | 0.00 | 1.80 |
| 3 | T | FREON 152A | 0.841 | 0.836 | 0.6 | 105 | 0.00 | 1.84 |
| 4 | T | CHLORODIFLUOROMETHANE | 0.373 | 0.369 | 1.1 | 101 | 0.00 | 1.86 |
| 5 | T | CHLOROTRIFLUOROETHENE | 2.160 | 2.210 | -2.3 | 108 | 0.00 | 1.88 |
| 6 | T | DICHLORODIFLUOROMETHANE | 4.975 | 4.905 | 1.4 | 104 | 0.00 | 1.90 |
| 7 | T | PROPYLENE | 0.939 | 0.882 | 6.1 | 104 | 0.00 | 1.88 |
| 8 | T | 1-CHLORO-1,1-DIFLUOROETHA | 3.746 | 3.660 | 2.3 | 103 | 0.00 | 1.95 |
| 9 | T | FREON 114 | 4.481 | 4.426 | 1.2 | 105 | 0.00 | 1.99 |
| 10 | T | CHLOROMETHANE | 0.501 | 0.464 | 7.4 | 102 | 0.00 | 1.96 |
| 11 | T | VINYL CHLORIDE | 1.740 | 1.717 | 1.3 | 103 | 0.00 | 2.04 |
| 12 | t | 1,3-BUTADIENE | 1.344 | 1.313 | 2.3 | 103 | 0.00 | 2.09 |
| 13 | T | N-BUTANE | 2.340 | 2.148 | 8.2 | 104 | 0.00 | 2.11 |
| 14 | T | BROMOMETHANE | 1.572 | 1.529 | 2.7 | 105 | 0.00 | 2.19 |
| 15 | T | CHLOROETHANE | 0.931 | 0.931 | 0.0 | 104 | 0.00 | 2.25 |
| 16 | T | DICHLOROFLUOROMETHANE | 3.704 | 3.601 | 2.8 | 103 | 0.00 | 2.28 |
| 17 | T | ACETONITRILE | 1.391 | 1.289 | 7.3 | 102 | 0.00 | 2.37 |
| 18 | T | ACROLEIN | 0.614 | 0.722 | -17.6 | 97 | 0.00 | 2.42 |
| 19 | T | FREON 123 | 4.117 | 4.024 | 2.3 | 103 | 0.00 | 2.44 |
| 20 | T | FREON 123A | 2.381 | 2.322 | 2.5 | 103 | 0.00 | 2.45 |
| 21 | T | TRICHLOROFLUOROMETHANE | 5.177 | 5.109 | 1.3 | 103 | 0.00 | 2.52 |
| 22 | T | ISOPROPYL ALCOHOL | 4.132 | 3.694 | 10.6 | 102 | 0.00 | 2.53 |
| 23 | T | ACETONE | 1.318 | 1.047 | 20.6 | 104 | 0.00 | 2.46 |
| 24 | T | PENTANE | 2.264 | 2.025 | 10.6 | 100 | 0.00 | 2.63 |
| 25 | T | IODOMETHANE | 5.061 | 5.018 | 0.8 | 105 | 0.00 | 2.69 |
| 26 | T | 1,1-DICHLOROETHYLENE | 1.987 | 1.963 | 1.2 | 104 | 0.00 | 2.71 |
| 27 | T | CARBON DISULFIDE | 5.984 | 5.899 | 1.4 | 103 | 0.00 | 2.85 |
| 28 | T | ETHANOL | 0.813 | 0.648 | 20.3 | 104 | 0.00 | 2.29 |
| 29 | T | BROMOETHENE | 1.606 | 1.631 | -1.6 | 105 | 0.00 | 2.38 |
| 30 | T | ACRYLONITRILE | 1.561 | 1.485 | 4.9 | 99 | 0.00 | 2.61 |
| 31 | T | METHYLENE CHLORIDE | 2.205 | 1.801 | 18.3 | 103 | 0.00 | 2.75 |
| 32 | T | 3-CHLOROPROPENE | 1.020 | 0.959 | 6.0 | 104 | 0.00 | 2.79 |
| 33 | T | FREON 113 | 3.349 | 3.332 | 0.5 | 105 | 0.00 | 2.84 |
| 34 | T | TRANS-1,2-DICHLOROETHENE | 1.655 | 1.660 | -0.3 | 106 | 0.00 | 3.08 |
| 35 | T | TERTIARY BUTYL ALCOHOL | 5.206 | 5.057 | 2.9 | 105 | 0.00 | 2.72 |
| 36 | t | METHYL TERTIARY BUTYL ETH | 4.286 | 4.282 | 0.1 | 107 | 0.00 | 3.19 |
| 37 | T | TETRAHYDROFURAN | 0.723 | 0.753 | -4.1 | 103 | 0.00 | 3.90 |
| 38 | T | HEXANE | 2.890 | 2.787 | 3.6 | 102 | 0.00 | 3.67 |
| 39 | T | VINYL ACETATE | 0.407 | 0.427 | -4.9 | 103 | 0.00 | 3.23 |
| 40 | T | 1,1-DICHLOROETHANE | 2.961 | 2.914 | 1.6 | 104 | 0.00 | 3.16 |
| 41 | T | METHYL ETHYL KETONE | 0.736 | 0.772 | -4.9 | 105 | 0.00 | 3.33 |
| 42 | T | CIS-1,2-DICHLOROETHENE | 1.776 | 1.777 | -0.1 | 106 | 0.00 | 3.53 |

# Continuing Calibration Summary

**Job Number:** JD52620 **Sample:** V2W2710-CC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61024.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 43 | T | DIISOPROPYL ETHER | 0.846 | 0.840 | 0.7 | 105 | 0.00 | 3.67 |
| 44 | T | ETHYL ACETATE | 0.592 | 0.589 | 0.5 | 104 | 0.00 | 3.67 |
| 45 | T | METHYL ACRYLATE | 3.398 | 3.384 | 0.4 | 101 | 0.00 | 3.66 |
| 46 | T | CHLOROFORM | 3.619 | 3.576 | 1.2 | 106 | 0.00 | 3.69 |
| 47 | T | 2,4-DIMETHYLPENTANE | 3.367 | 3.226 | 4.2 | 103 | 0.00 | 4.20 |
| 48 | T | 1,1,1-TRICHLOROETHANE | 3.609 | 3.615 | -0.2 | 105 | 0.00 | 4.28 |
| 49 | T | CARBON TETRACHLORIDE | 3.576 | 3.635 | -1.6 | 103 | 0.00 | 4.71 |
| 50 | T | 1,2-DICHLOROETHANE | 2.451 | 2.399 | 2.1 | 103 | 0.00 | 4.11 |
| 51 | t | BENZENE | 5.167 | 5.110 | 1.1 | 106 | 0.00 | 4.60 |
| 52 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 109 | 0.00 | 4.93 |
| 53 | T | CYCLOHEXANE | 0.422 | 0.414 | 1.9 | 104 | 0.00 | 4.81 |
| 54 | T | 2,3-DIMETHYLPENTANE | 0.207 | 0.205 | 1.0 | 104 | 0.00 | 5.07 |
| 55 | T | TRICHLOROETHENE | 0.424 | 0.441 | -4.0 | 105 | 0.00 | 5.52 |
| 56 | T | 1,2-DICHLOROPROPANE | 0.382 | 0.372 | 2.6 | 105 | 0.00 | 5.28 |
| 57 | T | DIBROMOMETHANE | 0.436 | 0.425 | 2.5 | 107 | 0.00 | 5.24 |
| 58 | T | ETHYL ACRYLATE | 0.717 | 0.744 | -3.8 | 103 | 0.00 | 5.40 |
| 59 | T | BROMODICHLOROMETHANE | 0.700 | 0.713 | -1.9 | 104 | 0.00 | 5.46 |
| 60 | T | 2,2,4-TRIMETHYLPENTANE | 1.689 | 1.602 | 5.2 | 103 | 0.00 | 5.61 |
| 61 | T | 1,4-DIOXANE | 0.205 | 0.206 | -0.5 | 107 | 0.00 | 5.52 |
| 62 | T | HEPTANE | 0.532 | 0.498 | 6.4 | 102 | 0.00 | 5.94 |
| 63 | T | METHYL METHACRYLATE | 0.326 | 0.345 | -5.8 | 103 | 0.00 | 5.83 |
| 64 | T | METHYL ISOBUTYL KETONE | 0.272 | 0.294 | -8.1 | 103 | 0.00 | 6.57 |
| 65 | T | CIS-1,3-DICHLOROPROPENE | 0.506 | 0.536 | -5.9 | 107 | 0.00 | 6.47 |
| 66 | T | TOLUENE | 1.206 | 1.199 | 0.6 | 106 | 0.00 | 7.70 |
| 67 | T | 1,3-DICHLOROPROPANE | 0.573 | 0.573 | 0.0 | 104 | 0.00 | 7.76 |
| 68 | T | TRANS-1,3-DICHLOROPROPENE | 0.453 | 0.482 | -6.4 | 104 | 0.00 | 7.16 |
| 69 | T | 1,1,2-TRICHLOROETHANE | 0.353 | 0.352 | 0.3 | 106 | 0.00 | 7.33 |
| | | | True | Calc. | % Drift | | | |
| 70 | T | 2-HEXANONE | 10.000 | 9.369 | 6.3 | 101 | 0.00 | 8.26 |
| | | | AvgRF | CCRF | % Dev | | | |
| 71 | T | ETHYL METHACRYLATE | 0.475 | 0.537 | -13.1 | 103 | 0.00 | 8.40 |
| 72 | T | TETRACHLOROETHENE | 0.483 | 0.478 | 1.0 | 106 | 0.00 | 9.45 |
| 73 | T | DIBROMOCHLOROMETHANE | 0.688 | 0.747 | -8.6 | 106 | 0.00 | 8.24 |
| 74 | T | 1,2-DIBROMOETHANE | 0.643 | 0.669 | -4.0 | 106 | 0.00 | 8.59 |
| 75 | T | OCTANE | 0.715 | 0.684 | 4.3 | 102 | 0.00 | 9.59 |
| 76 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 107 | 0.00 | 10.59 |
| 77 | T | 1,1,1,2-TETRACHLOROETHANE | 0.542 | 0.565 | -4.2 | 105 | 0.00 | 10.67 |
| 78 | T | CHLOROBENZENE | 1.075 | 1.084 | -0.8 | 106 | 0.00 | 10.66 |
| 79 | t | ETHYLBENZENE | 1.713 | 1.743 | -1.8 | 105 | 0.00 | 11.55 |
| 80 | t | M,P-XYLENE | 1.303 | 1.333 | -2.3 | 105 | 0.00 | 11.98 |
| 81 | t | O-XYLENE | 1.332 | 1.343 | -0.8 | 103 | 0.00 | 12.92 |
| 82 | T | STYRENE | 0.953 | 1.040 | -9.1 | 105 | 0.00 | 12.70 |
| 83 | T | NONANE | 0.822 | 0.784 | 4.6 | 100 | 0.00 | 14.03 |
| 84 | T | BROMOFORM | 0.689 | 0.777 | -12.8 | 108 | 0.00 | 11.80 |
| 85 | T | 1,1,2,2-TETRACHLOROETHANE | 0.991 | 1.005 | -1.4 | 105 | 0.00 | 12.93 |
| 86 | T | 1,2,3-TRICHLOROPROPANE | 0.727 | 0.723 | 0.6 | 104 | 0.00 | 13.22 |
| 87 | S | 4-BROMOFLUOROBENZENE | 0.666 | 0.668 | -0.3 | 106 | 0.00 | 13.96 |
| 88 | T | ISOPROPYLBENZENE | 0.565 | 0.600 | -6.2 | 109 | 0.00 | 14.43 |
| 89 | T | BROMOBENZENE | 0.922 | 0.923 | -0.1 | 104 | 0.00 | 14.31 |
| 90 | T | 2-CHLOROTOLUENE | 0.474 | 0.492 | -3.8 | 107 | 0.00 | 15.44 |
| 91 | T | N-PROPYLBENZENE | 0.519 | 0.556 | -7.1 | 106 | 0.00 | 15.78 |
| 92 | T | 4-ETHYLTOLUENE | 1.912 | 2.025 | -5.9 | 106 | 0.00 | 16.15 |
| 93 | T | 1,3,5-TRIMETHYLBENZENE | 1.595 | 1.668 | -4.6 | 106 | 0.00 | 16.30 |
| 94 | T | ALPHA-METHYLSTYRENE | 0.671 | 0.696 | -3.7 | 100 | 0.00 | 16.50 |
| 95 | T | TERT-BUTYLBENZENE | 0.408 | 0.418 | -2.5 | 105 | 0.00 | 16.76 |
| 96 | T | 1,2,4-TRIMETHYLBENZENE | 1.705 | 1.747 | -2.5 | 106 | 0.00 | 16.77 |

# Continuing Calibration Summary

**Job Number:** JD52620 **Sample:** V2W2710-CC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61024.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 97 | T | BENZYL CHLORIDE | 1.056 | 1.137 | -7.7 | 107 | 0.00 | 16.85 |
| 98 | T | M-DICHLOROBENZENE | 1.121 | 1.163 | -3.7 | 107 | 0.00 | 16.83 |
| 99 | T | P-DICHLOROBENZENE | 1.136 | 1.170 | -3.0 | 106 | 0.00 | 16.91 |
| 100 | T | O-DICHLOROBENZENE | 1.103 | 1.113 | -0.9 | 106 | 0.00 | 17.20 |
| 101 | T | SEC-BUTYLBENZENE | 0.507 | 0.516 | -1.8 | 105 | 0.00 | 17.04 |
| 102 | T | 1,2,3-TRIMETHYLBENZENE | 1.613 | 1.662 | -3.0 | 105 | 0.00 | 17.15 |
| 103 | T | P-ISOPROPYLTOLUENE | 0.559 | 0.563 | -0.7 | 105 | 0.00 | 17.22 |
| 104 | T | N-BUTYLBENZENE | 0.517 | 0.543 | -5.0 | 107 | 0.00 | 17.56 |
| 105 | T | HEXACHLOROETHANE | 0.633 | 0.634 | -0.2 | 102 | 0.00 | 17.74 |
| 106 | T | HEXACHLOROBUTADIENE | 0.866 | 0.810 | 6.5 | 108 | 0.00 | 18.79 |
| 107 | T | 1,2,4-TRICHLOROBENZENE | 0.914 | 0.933 | -2.1 | 107 | 0.00 | 18.48 |
| 108 | T | NAPHTHALENE | 2.334 | 2.314 | 0.9 | 106 | 0.00 | 18.53 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2w61016.D M2W2709.M Thu Aug 25 20:49:21 2022

# Continuing Calibration Summary



**Job Number:** JD52620 **Sample:** V2W2714-CC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61140.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\2w61140.D Vial: 2
Acq On : 30 Aug 2022 9:21 am Operator: williamc
Sample : cc2709-10 Inst : MS2W
Misc : MS61607,V2w2714,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Wed Aug 24 16:16:55 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 118 | 0.00 | 3.61 |
| 2 | T | FREON 115 | 0.000 | 0.567 | 0.0 | 0# | 0.00 | 1.81 |
| 3 | T | FREON 152A | 0.841 | 0.811 | 3.6 | 110 | 0.00 | 1.85 |
| 4 | T | CHLORODIFLUOROMETHANE | 0.373 | 0.365 | 2.1 | 108 | 0.00 | 1.87 |
| 5 | T | CHLOROTRIFLUOROETHENE | 2.160 | 2.062 | 4.5 | 109 | 0.00 | 1.88 |
| 6 | T | DICHLORODIFLUOROMETHANE | 4.975 | 4.777 | 4.0 | 110 | 0.00 | 1.91 |
| 7 | T | PROPYLENE | 0.939 | 0.841 | 10.4 | 107 | 0.00 | 1.88 |
| 8 | T | 1-CHLORO-1,1-DIFLUOROETHA | 3.746 | 3.783 | -1.0 | 115 | 0.00 | 1.96 |
| 9 | T | FREON 114 | 4.481 | 4.362 | 2.7 | 112 | 0.00 | 2.00 |
| 10 | T | CHLOROMETHANE | 0.501 | 0.476 | 5.0 | 114 | 0.00 | 1.96 |
| 11 | T | VINYL CHLORIDE | 1.740 | 1.834 | -5.4 | 120 | 0.00 | 2.05 |
| 12 | t | 1,3-BUTADIENE | 1.344 | 1.364 | -1.5 | 115 | 0.00 | 2.10 |
| 13 | T | N-BUTANE | 2.340 | 2.117 | 9.5 | 111 | 0.00 | 2.12 |
| 14 | T | BROMOMETHANE | 1.572 | 1.492 | 5.1 | 111 | 0.00 | 2.20 |
| 15 | T | CHLOROETHANE | 0.931 | 0.980 | -5.3 | 118 | 0.00 | 2.26 |
| 16 | T | DICHLOROFLUOROMETHANE | 3.704 | 3.608 | 2.6 | 111 | 0.00 | 2.29 |
| 17 | T | ACETONITRILE | 1.391 | 1.284 | 7.7 | 110 | 0.00 | 2.38 |
| 18 | T | ACROLEIN | 0.614 | 0.778 | -26.7 | 113 | 0.00 | 2.42 |
| 19 | T | FREON 123 | 4.117 | 4.112 | 0.1 | 114 | 0.00 | 2.44 |
| 20 | T | FREON 123A | 2.381 | 2.385 | -0.2 | 114 | 0.00 | 2.46 |
| 21 | T | TRICHLOROFLUOROMETHANE | 5.177 | 5.289 | -2.2 | 115 | 0.00 | 2.52 |
| 22 | T | ISOPROPYL ALCOHOL | 4.132 | 3.836 | 7.2 | 114 | 0.00 | 2.54 |
| 23 | T | ACETONE | 1.318 | 1.181 | 10.4 | 126 | 0.00 | 2.47 |
| 24 | T | PENTANE | 2.264 | 2.263 | 0.0 | 121 | 0.00 | 2.63 |
| 25 | T | IODOMETHANE | 5.061 | 4.872 | 3.7 | 110 | 0.00 | 2.69 |
| 26 | T | 1,1-DICHLOROETHYLENE | 1.987 | 2.041 | -2.7 | 117 | 0.00 | 2.72 |
| 27 | T | CARBON DISULFIDE | 5.984 | 6.176 | -3.2 | 117 | 0.00 | 2.85 |
| 28 | T | ETHANOL | 0.813 | 0.623 | 23.4 | 108 | 0.00 | 2.30 |
| 29 | T | BROMOETHENE | 1.606 | 1.624 | -1.1 | 113 | 0.00 | 2.39 |
| 30 | T | ACRYLONITRILE | 1.561 | 1.669 | -6.9 | 120 | 0.00 | 2.60 |
| 31 | T | METHYLENE CHLORIDE | 2.205 | 1.917 | 13.1 | 119 | 0.00 | 2.75 |
| 32 | T | 3-CHLOROPROPENE | 1.020 | 0.980 | 3.9 | 115 | 0.00 | 2.79 |
| 33 | T | FREON 113 | 3.349 | 3.226 | 3.7 | 110 | 0.00 | 2.85 |
| 34 | T | TRANS-1,2-DICHLOROETHENE | 1.655 | 1.610 | 2.7 | 111 | 0.00 | 3.08 |
| 35 | T | TERTIARY BUTYL ALCOHOL | 5.206 | 5.202 | 0.1 | 117 | 0.00 | 2.72 |
| 36 | t | METHYL TERTIARY BUTYL ETH | 4.286 | 3.843 | 10.3 | 104 | 0.00 | 3.19 |
| 37 | T | TETRAHYDROFURAN | 0.723 | 0.728 | -0.7 | 107 | 0.00 | 3.91 |
| 38 | T | HEXANE | 2.890 | 2.947 | -2.0 | 117 | 0.00 | 3.67 |
| 39 | T | VINYL ACETATE | 0.407 | 0.386 | 5.2 | 101 | 0.00 | 3.23 |
| 40 | T | 1,1-DICHLOROETHANE | 2.961 | 3.058 | -3.3 | 118 | 0.00 | 3.16 |
| 41 | T | METHYL ETHYL KETONE | 0.736 | 0.733 | 0.4 | 108 | 0.00 | 3.33 |
| 42 | T | CIS-1,2-DICHLOROETHENE | 1.776 | 1.699 | 4.3 | 110 | 0.00 | 3.54 |

# Continuing Calibration Summary

**Job Number:** JD52620 **Sample:** V2W2714-CC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61140.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 43 | T | DIISOPROPYL ETHER | 0.846 | 0.891 | -5.3 | 121 | 0.00 | 3.67 |
| 44 | T | ETHYL ACETATE | 0.592 | 0.608 | -2.7 | 116 | 0.00 | 3.68 |
| 45 | T | METHYL ACRYLATE | 3.398 | 3.491 | -2.7 | 113 | 0.00 | 3.66 |
| 46 | T | CHLOROFORM | 3.619 | 3.438 | 5.0 | 110 | 0.00 | 3.69 |
| 47 | T | 2,4-DIMETHYLPENTANE | 3.367 | 3.409 | -1.2 | 118 | 0.00 | 4.20 |
| 48 | T | 1,1,1-TRICHLOROETHANE | 3.609 | 3.374 | 6.5 | 106 | 0.00 | 4.28 |
| 49 | T | CARBON TETRACHLORIDE | 3.576 | 3.320 | 7.2 | 102 | 0.00 | 4.71 |
| 50 | T | 1,2-DICHLOROETHANE | 2.451 | 2.513 | -2.5 | 117 | 0.00 | 4.11 |
| 51 | t | BENZENE | 5.167 | 4.903 | 5.1 | 111 | 0.00 | 4.60 |
| 52 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 117 | 0.00 | 4.93 |
| 53 | T | CYCLOHEXANE | 0.422 | 0.403 | 4.5 | 109 | 0.00 | 4.81 |
| 54 | T | 2,3-DIMETHYLPENTANE | 0.207 | 0.201 | 2.9 | 109 | 0.00 | 5.07 |
| 55 | T | TRICHLOROETHENE | 0.424 | 0.431 | -1.7 | 110 | 0.00 | 5.52 |
| 56 | T | 1,2-DICHLOROPROPANE | 0.382 | 0.393 | -2.9 | 118 | 0.00 | 5.28 |
| 57 | T | DIBROMOMETHANE | 0.436 | 0.391 | 10.3 | 106 | 0.00 | 5.24 |
| 58 | T | ETHYL ACRYLATE | 0.717 | 0.752 | -4.9 | 111 | 0.00 | 5.40 |
| 59 | T | BROMODICHLOROMETHANE | 0.700 | 0.693 | 1.0 | 108 | 0.00 | 5.46 |
| 60 | T | 2,2,4-TRIMETHYLPENTANE | 1.689 | 1.699 | -0.6 | 117 | 0.00 | 5.62 |
| 61 | T | 1,4-DIOXANE | 0.205 | 0.183 | 10.7 | 101 | 0.00 | 5.53 |
| 62 | T | HEPTANE | 0.532 | 0.497 | 6.6 | 109 | 0.00 | 5.94 |
| 63 | T | METHYL METHACRYLATE | 0.326 | 0.326 | 0.0 | 105 | 0.00 | 5.83 |
| 64 | T | METHYL ISOBUTYL KETONE | 0.272 | 0.305 | -12.1 | 114 | 0.00 | 6.57 |
| 65 | T | CIS-1,3-DICHLOROPROPENE | 0.506 | 0.484 | 4.3 | 103 | 0.00 | 6.47 |
| 66 | T | TOLUENE | 1.206 | 1.163 | 3.6 | 110 | 0.00 | 7.70 |
| 67 | T | 1,3-DICHLOROPROPANE | 0.573 | 0.557 | 2.8 | 108 | 0.00 | 7.76 |
| 68 | T | TRANS-1,3-DICHLOROPROPENE | 0.453 | 0.414 | 8.6 | 96 | 0.00 | 7.16 |
| 69 | T | 1,1,2-TRICHLOROETHANE | 0.353 | 0.339 | 4.0 | 110 | 0.00 | 7.32 |
| | | | True | Calc. | % Drift | | | |
| 70 | T | 2-HEXANONE | 10.000 | 9.258 | 7.4 | 107 | 0.00 | 8.26 |
| | | | AvgRF | CCRF | % Dev | | | |
| 71 | T | ETHYL METHACRYLATE | 0.475 | 0.503 | -5.9 | 103 | 0.00 | 8.40 |
| 72 | T | TETRACHLOROETHENE | 0.483 | 0.440 | 8.9 | 105 | 0.00 | 9.45 |
| 73 | T | DIBROMOCHLOROMETHANE | 0.688 | 0.726 | -5.5 | 110 | 0.00 | 8.24 |
| 74 | T | 1,2-DIBROMOETHANE | 0.643 | 0.642 | 0.2 | 109 | 0.00 | 8.59 |
| 75 | T | OCTANE | 0.715 | 0.676 | 5.5 | 107 | 0.00 | 9.59 |
| 76 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 114 | 0.00 | 10.59 |
| 77 | T | 1,1,1,2-TETRACHLOROETHANE | 0.542 | 0.518 | 4.4 | 103 | 0.00 | 10.68 |
| 78 | T | CHLOROBENZENE | 1.075 | 1.048 | 2.5 | 109 | 0.00 | 10.66 |
| 79 | t | ETHYLBENZENE | 1.713 | 1.715 | -0.1 | 110 | 0.00 | 11.55 |
| 80 | t | M,P-XYLENE | 1.303 | 1.306 | -0.2 | 109 | 0.00 | 11.98 |
| 81 | t | O-XYLENE | 1.332 | 1.329 | 0.2 | 109 | 0.00 | 12.92 |
| 82 | T | STYRENE | 0.953 | 1.005 | -5.5 | 108 | 0.00 | 12.70 |
| 83 | T | NONANE | 0.822 | 0.784 | 4.6 | 107 | 0.00 | 14.04 |
| 84 | T | BROMOFORM | 0.689 | 0.692 | -0.4 | 102 | 0.00 | 11.79 |
| 85 | T | 1,1,2,2-TETRACHLOROETHANE | 0.991 | 0.982 | 0.9 | 109 | 0.00 | 12.93 |
| 86 | T | 1,2,3-TRICHLOROPROPANE | 0.727 | 0.702 | 3.4 | 107 | 0.00 | 13.21 |
| 87 | S | 4-BROMOFLUOROBENZENE | 0.666 | 0.667 | -0.2 | 113 | 0.00 | 13.96 |
| 88 | T | ISOPROPYLBENZENE | 0.565 | 0.609 | -7.8 | 118 | 0.00 | 14.43 |
| 89 | T | BROMOBENZENE | 0.922 | 0.897 | 2.7 | 107 | 0.00 | 14.31 |
| 90 | T | 2-CHLOROTOLUENE | 0.474 | 0.482 | -1.7 | 111 | 0.00 | 15.44 |
| 91 | T | N-PROPYLBENZENE | 0.519 | 0.546 | -5.2 | 111 | 0.00 | 15.78 |
| 92 | T | 4-ETHYLTOLUENE | 1.912 | 1.987 | -3.9 | 111 | 0.00 | 16.15 |
| 93 | T | 1,3,5-TRIMETHYLBENZENE | 1.595 | 1.648 | -3.3 | 111 | 0.00 | 16.30 |
| 94 | T | ALPHA-METHYLSTYRENE | 0.671 | 0.653 | 2.7 | 100 | 0.00 | 16.50 |
| 95 | T | TERT-BUTYLBENZENE | 0.408 | 0.395 | 3.2 | 105 | 0.00 | 16.76 |
| 96 | T | 1,2,4-TRIMETHYLBENZENE | 1.705 | 1.746 | -2.4 | 112 | 0.00 | 16.77 |

# Continuing Calibration Summary

**Job Number:** JD52620 **Sample:** V2W2714-CC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61140.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 97 | T | BENZYL CHLORIDE | 1.056 | 0.798 | 24.4 | 80 | 0.00 | 16.85 |
| 98 | T | M-DICHLOROBENZENE | 1.121 | 1.085 | 3.2 | 106 | 0.00 | 16.83 |
| 99 | T | P-DICHLOROBENZENE | 1.136 | 1.092 | 3.9 | 106 | 0.00 | 16.91 |
| 100 | T | O-DICHLOROBENZENE | 1.103 | 1.046 | 5.2 | 106 | 0.00 | 17.21 |
| 101 | T | SEC-BUTYLBENZENE | 0.507 | 0.489 | 3.6 | 107 | 0.00 | 17.04 |
| 102 | T | 1,2,3-TRIMETHYLBENZENE | 1.613 | 1.662 | -3.0 | 112 | 0.00 | 17.15 |
| 103 | T | P-ISOPROPYLTOLUENE | 0.559 | 0.532 | 4.8 | 105 | 0.00 | 17.22 |
| 104 | T | N-BUTYLBENZENE | 0.517 | 0.491 | 5.0 | 103 | 0.00 | 17.57 |
| 105 | T | HEXACHLOROETHANE | 0.633 | 0.600 | 5.2 | 102 | 0.00 | 17.74 |
| 106 | T | HEXACHLOROBUTADIENE | 0.866 | 0.730 | 15.7 | 103 | 0.00 | 18.79 |
| 107 | T | 1,2,4-TRICHLOROBENZENE | 0.914 | 0.834 | 8.8 | 102 | 0.00 | 18.48 |
| 108 | T | NAPHTHALENE | 2.334 | 2.113 | 9.5 | 103 | 0.00 | 18.53 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2w61016.D M2W2709.M Thu Sep 01 13:13:58 2022

6.9.7

# Continuing Calibration Summary



**Job Number:** JD52620 **Sample:** V2W2735-CC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61633.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\2w61633.D Vial: 2
Acq On : 28 Sep 2022 7:54 am Operator: thomash
Sample : cc2709-10 Inst : MS2W
Misc : MS62371,V2w2735,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Wed Aug 24 16:16:55 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 3.61 |
| 2 | T | FREON 115 | | ----------NA---------- | | | | |
| 3 | T | FREON 152A | 0.841 | 0.819 | 2.6 | 96 | 0.00 | 1.85 |
| 4 | T | CHLORODIFLUOROMETHANE | 0.373 | 0.362 | 2.9 | 93 | 0.00 | 1.86 |
| 5 | T | CHLOROTRIFLUOROETHENE | 2.160 | 1.866 | 13.6 | 85 | 0.00 | 1.88 |
| 6 | T | DICHLORODIFLUOROMETHANE | 4.975 | 4.679 | 5.9 | 93 | 0.00 | 1.90 |
| 7 | T | PROPYLENE | 0.939 | 0.759 | 19.2 | 84 | 0.00 | 1.88 |
| 8 | T | 1-CHLORO-1,1-DIFLUOROETHA | 3.746 | 3.774 | -0.7 | 100 | 0.00 | 1.95 |
| 9 | T | FREON 114 | 4.481 | 4.391 | 2.0 | 98 | 0.00 | 2.00 |
| 10 | T | CHLOROMETHANE | 0.501 | 0.444 | 11.4 | 92 | 0.00 | 1.96 |
| 11 | T | VINYL CHLORIDE | 1.740 | 1.890 | -8.6 | 107 | 0.00 | 2.04 |
| 12 | t | 1,3-BUTADIENE | 1.344 | 1.252 | 6.8 | 92 | 0.00 | 2.09 |
| 13 | T | N-BUTANE | 2.340 | 1.987 | 15.1 | 90 | 0.00 | 2.11 |
| 14 | T | BROMOMETHANE | 1.572 | 1.527 | 2.9 | 98 | 0.00 | 2.19 |
| 15 | T | CHLOROETHANE | 0.931 | 1.025 | -10.1 | 107 | 0.00 | 2.25 |
| 16 | T | DICHLOROFLUOROMETHANE | 3.704 | 3.759 | -1.5 | 100 | 0.00 | 2.29 |
| 17 | T | ACETONITRILE | 1.391 | 1.228 | 11.7 | 91 | 0.00 | 2.37 |
| 18 | T | ACROLEIN | 0.614 | 0.879 | -43.2# | 111 | 0.00 | 2.42 |
| 19 | T | FREON 123 | 4.117 | 4.491 | -9.1 | 108 | 0.00 | 2.43 |
| 20 | T | FREON 123A | 2.381 | 2.322 | 2.5 | 96 | 0.00 | 2.45 |
| 21 | T | TRICHLOROFLUOROMETHANE | 5.177 | 5.345 | -3.2 | 101 | 0.00 | 2.52 |
| 22 | T | ISOPROPYL ALCOHOL | 4.132 | 3.757 | 9.1 | 97 | 0.00 | 2.53 |
| 23 | T | ACETONE | 1.318 | 1.093 | 17.1 | 101 | 0.00 | 2.46 |
| 24 | T | PENTANE | 2.264 | 2.274 | -0.4 | 105 | 0.00 | 2.63 |
| 25 | T | IODOMETHANE | 5.061 | 5.244 | -3.6 | 103 | 0.00 | 2.69 |
| 26 | T | 1,1-DICHLOROETHYLENE | 1.987 | 2.232 | -12.3 | 111 | 0.00 | 2.71 |
| 27 | T | CARBON DISULFIDE | 5.984 | 7.006 | -17.1 | 115 | 0.00 | 2.84 |
| 28 | T | ETHANOL | 0.813 | 0.600 | 26.2 | 90 | 0.00 | 2.29 |
| 29 | T | BROMOETHENE | 1.606 | 1.594 | 0.7 | 96 | 0.00 | 2.38 |
| 30 | T | ACRYLONITRILE | 1.561 | 1.680 | -7.6 | 104 | 0.00 | 2.60 |
| 31 | T | METHYLENE CHLORIDE | 2.205 | 2.181 | 1.1 | 117 | 0.00 | 2.75 |
| 32 | T | 3-CHLOROPROPENE | 1.020 | 1.063 | -4.2 | 108 | 0.00 | 2.79 |
| 33 | T | FREON 113 | 3.349 | 3.501 | -4.5 | 103 | 0.00 | 2.84 |
| 34 | T | TRANS-1,2-DICHLOROETHENE | 1.655 | 1.642 | 0.8 | 98 | 0.00 | 3.08 |
| 35 | T | TERTIARY BUTYL ALCOHOL | 5.206 | 4.894 | 6.0 | 95 | 0.00 | 2.72 |
| 36 | t | METHYL TERTIARY BUTYL ETH | 4.286 | 3.683 | 14.1 | 87 | 0.00 | 3.19 |
| 37 | T | TETRAHYDROFURAN | 0.723 | 0.740 | -2.4 | 94 | 0.00 | 3.90 |
| 38 | T | HEXANE | 2.890 | 2.898 | -0.3 | 99 | 0.00 | 3.66 |
| 39 | T | VINYL ACETATE | 0.407 | 0.404 | 0.7 | 92 | 0.00 | 3.23 |
| 40 | T | 1,1-DICHLOROETHANE | 2.961 | 3.158 | -6.7 | 106 | 0.00 | 3.16 |
| 41 | T | METHYL ETHYL KETONE | 0.736 | 0.755 | -2.6 | 96 | 0.00 | 3.33 |
| 42 | T | CIS-1,2-DICHLOROETHENE | 1.776 | 1.737 | 2.2 | 97 | 0.00 | 3.53 |

# Continuing Calibration Summary

**Job Number:** JD52620 **Sample:** V2W2735-CC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61633.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 43 | T | DIISOPROPYL ETHER | 0.846 | 0.882 | -4.3 | 103 | 0.00 | 3.67 |
| 44 | T | ETHYL ACETATE | 0.592 | 0.629 | -6.3 | 104 | 0.00 | 3.67 |
| 45 | T | METHYL ACRYLATE | 3.398 | 3.428 | -0.9 | 96 | 0.00 | 3.66 |
| 46 | T | CHLOROFORM | 3.619 | 3.590 | 0.8 | 99 | 0.00 | 3.69 |
| 47 | T | 2,4-DIMETHYLPENTANE | 3.367 | 3.304 | 1.9 | 99 | 0.00 | 4.20 |
| 48 | T | 1,1,1-TRICHLOROETHANE | 3.609 | 3.417 | 5.3 | 93 | 0.00 | 4.28 |
| 49 | T | CARBON TETRACHLORIDE | 3.576 | 3.352 | 6.3 | 89 | 0.00 | 4.71 |
| 50 | T | 1,2-DICHLOROETHANE | 2.451 | 2.484 | -1.3 | 100 | 0.00 | 4.11 |
| 51 | t | BENZENE | 5.167 | 4.987 | 3.5 | 97 | 0.00 | 4.60 |
| 52 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 99 | 0.00 | 4.93 |
| 53 | T | CYCLOHEXANE | 0.422 | 0.415 | 1.7 | 95 | 0.00 | 4.81 |
| 54 | T | 2,3-DIMETHYLPENTANE | 0.207 | 0.208 | -0.5 | 96 | 0.00 | 5.07 |
| 55 | T | TRICHLOROETHENE | 0.424 | 0.442 | -4.2 | 96 | 0.00 | 5.52 |
| 56 | T | 1,2-DICHLOROPROPANE | 0.382 | 0.402 | -5.2 | 103 | 0.00 | 5.28 |
| 57 | T | DIBROMOMETHANE | 0.436 | 0.403 | 7.6 | 92 | 0.00 | 5.24 |
| 58 | T | ETHYL ACRYLATE | 0.717 | 0.756 | -5.4 | 95 | 0.00 | 5.40 |
| 59 | T | BROMODICHLOROMETHANE | 0.700 | 0.748 | -6.9 | 99 | 0.00 | 5.46 |
| 60 | T | 2,2,4-TRIMETHYLPENTANE | 1.689 | 1.682 | 0.4 | 98 | 0.00 | 5.61 |
| 61 | T | 1,4-DIOXANE | 0.205 | 0.220 | -7.3 | 104 | 0.00 | 5.52 |
| 62 | T | HEPTANE | 0.532 | 0.456 | 14.3 | 85 | 0.00 | 5.93 |
| 63 | T | METHYL METHACRYLATE | 0.326 | 0.346 | -6.1 | 94 | 0.00 | 5.83 |
| 64 | T | METHYL ISOBUTYL KETONE | 0.272 | 0.320 | -17.6 | 102 | 0.00 | 6.57 |
| 65 | T | CIS-1,3-DICHLOROPROPENE | 0.506 | 0.503 | 0.6 | 91 | 0.00 | 6.47 |
| 66 | T | TOLUENE | 1.206 | 1.167 | 3.2 | 93 | 0.00 | 7.70 |
| 67 | T | 1,3-DICHLOROPROPANE | 0.573 | 0.582 | -1.6 | 96 | 0.00 | 7.76 |
| 68 | T | TRANS-1,3-DICHLOROPROPENE | 0.453 | 0.428 | 5.5 | 84 | 0.00 | 7.16 |
| 69 | T | 1,1,2-TRICHLOROETHANE | 0.353 | 0.363 | -2.8 | 100 | 0.00 | 7.32 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 70 | T | 2-HEXANONE | 10.000 | 11.049 | -10.5 | 109 | 0.00 | 8.26 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 71 | T | ETHYL METHACRYLATE | 0.475 | 0.555 | -16.8 | 96 | 0.00 | 8.40 |
| 72 | T | TETRACHLOROETHENE | 0.483 | 0.454 | 6.0 | 92 | 0.00 | 9.44 |
| 73 | T | DIBROMOCHLOROMETHANE | 0.688 | 0.715 | -3.9 | 92 | 0.00 | 8.24 |
| 74 | T | 1,2-DIBROMOETHANE | 0.643 | 0.647 | -0.6 | 93 | 0.00 | 8.59 |
| 75 | T | OCTANE | 0.715 | 0.622 | 13.0 | 84 | 0.00 | 9.59 |
| 76 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 93 | 0.00 | 10.59 |
| 77 | T | 1,1,1,2-TETRACHLOROETHANE | 0.542 | 0.552 | -1.8 | 90 | 0.00 | 10.67 |
| 78 | T | CHLOROBENZENE | 1.075 | 1.087 | -1.1 | 92 | 0.00 | 10.67 |
| 79 | t | ETHYLBENZENE | 1.713 | 1.793 | -4.7 | 94 | 0.00 | 11.55 |
| 80 | t | M,P-XYLENE | 1.303 | 1.382 | -6.1 | 94 | 0.00 | 11.98 |
| 81 | t | O-XYLENE | 1.332 | 1.416 | -6.3 | 95 | 0.00 | 12.92 |
| 82 | T | STYRENE | 0.953 | 1.070 | -12.3 | 94 | 0.00 | 12.70 |
| 83 | T | NONANE | 0.822 | 0.767 | 6.7 | 85 | 0.00 | 14.04 |
| 84 | T | BROMOFORM | 0.689 | 0.799 | -16.0 | 96 | 0.00 | 11.80 |
| 85 | T | 1,1,2,2-TETRACHLOROETHANE | 0.991 | 1.102 | -11.2 | 100 | 0.00 | 12.93 |
| 86 | T | 1,2,3-TRICHLOROPROPANE | 0.727 | 0.767 | -5.5 | 95 | 0.00 | 13.21 |
| 87 | S | 4-BROMOFLUOROBENZENE | 0.666 | 0.748 | -12.3 | 103 | 0.00 | 13.96 |
| 88 | T | ISOPROPYLBENZENE | 0.565 | 0.522 | 7.6 | 83 | 0.00 | 14.44 |
| 89 | T | BROMOBENZENE | 0.922 | 0.972 | -5.4 | 95 | 0.00 | 14.31 |
| 90 | T | 2-CHLOROTOLUENE | 0.474 | 0.476 | -0.4 | 90 | 0.00 | 15.44 |
| 91 | T | N-PROPYLBENZENE | 0.519 | 0.538 | -3.7 | 90 | 0.00 | 15.78 |
| 92 | T | 4-ETHYLTOLUENE | 1.912 | 2.053 | -7.4 | 94 | 0.00 | 16.15 |
| 93 | T | 1,3,5-TRIMETHYLBENZENE | 1.595 | 1.690 | -6.0 | 93 | 0.00 | 16.30 |
| 94 | T | ALPHA-METHYLSTYRENE | 0.671 | 0.859 | -28.0 | 107 | 0.00 | 16.50 |
| 95 | T | TERT-BUTYLBENZENE | 0.408 | 0.420 | -2.9 | 91 | 0.00 | 16.76 |
| 96 | T | 1,2,4-TRIMETHYLBENZENE | 1.705 | 1.808 | -6.0 | 95 | 0.00 | 16.77 |

# Continuing Calibration Summary

**Job Number:** JD52620 **Sample:** V2W2735-CC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61633.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 97 | T | BENZYL CHLORIDE | 1.056 | 0.879 | 16.8 | 72 | 0.00 | 16.85 |
| 98 | T | M-DICHLOROBENZENE | 1.121 | 1.180 | -5.3 | 94 | 0.00 | 16.83 |
| 99 | T | P-DICHLOROBENZENE | 1.136 | 1.200 | -5.6 | 95 | 0.00 | 16.91 |
| 100 | T | O-DICHLOROBENZENE | 1.103 | 1.164 | -5.5 | 97 | 0.00 | 17.20 |
| 101 | T | SEC-BUTYLBENZENE | 0.507 | 0.521 | -2.8 | 93 | 0.00 | 17.04 |
| 102 | T | 1,2,3-TRIMETHYLBENZENE | 1.613 | 1.733 | -7.4 | 95 | 0.00 | 17.15 |
| 103 | T | P-ISOPROPYLTOLUENE | 0.559 | 0.579 | -3.6 | 94 | 0.00 | 17.22 |
| 104 | T | N-BUTYLBENZENE | 0.517 | 0.542 | -4.8 | 93 | 0.00 | 17.56 |
| 105 | T | HEXACHLOROETHANE | 0.633 | 0.666 | -5.2 | 93 | 0.00 | 17.74 |
| 106 | T | HEXACHLOROBUTADIENE | 0.866 | 0.896 | -3.5 | 104 | -0.01 | 18.78 |
| 107 | T | 1,2,4-TRICHLOROBENZENE | 0.914 | 0.964 | -5.5 | 96 | -0.01 | 18.47 |
| 108 | T | NAPHTHALENE | 2.334 | 2.328 | 0.3 | 93 | -0.01 | 18.52 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2w61016.D M2W2709.M Thu Sep 29 09:14:24 2022

# Continuing Calibration Summary



**Job Number:** JD52620 **Sample:** V2W2736-CC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61653.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\2w61653.D Vial: 2
Acq On : 29 Sep 2022 7:42 am Operator: thomash
Sample : cc2709-10 Inst : MS2W
Misc : MS62557,V2w2736,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Wed Aug 24 16:16:55 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 92 | 0.00 | 3.61 |
| 2 | T | FREON 115 | | ----------NA---------- | | | | |
| 3 | T | FREON 152A | 0.841 | 0.897 | -6.7 | 95 | 0.00 | 1.85 |
| 4 | T | CHLORODIFLUOROMETHANE | 0.373 | 0.391 | -4.8 | 90 | 0.00 | 1.87 |
| 5 | T | CHLOROTRIFLUOROETHENE | 2.160 | 2.008 | 7.0 | 83 | 0.00 | 1.88 |
| 6 | T | DICHLORODIFLUOROMETHANE | 4.975 | 5.087 | -2.3 | 92 | 0.00 | 1.91 |
| 7 | T | PROPYLENE | 0.939 | 0.837 | 10.9 | 83 | 0.00 | 1.88 |
| 8 | T | 1-CHLORO-1,1-DIFLUOROETHA | 3.746 | 4.042 | -7.9 | 96 | 0.00 | 1.96 |
| 9 | T | FREON 114 | 4.481 | 4.765 | -6.3 | 96 | 0.00 | 2.00 |
| 10 | T | CHLOROMETHANE | 0.501 | 0.485 | 3.2 | 91 | 0.00 | 1.96 |
| 11 | T | VINYL CHLORIDE | 1.740 | 2.065 | -18.7 | 105 | 0.00 | 2.04 |
| 12 | t | 1,3-BUTADIENE | 1.344 | 1.404 | -4.5 | 93 | 0.00 | 2.09 |
| 13 | T | N-BUTANE | 2.340 | 2.145 | 8.3 | 87 | 0.00 | 2.12 |
| 14 | T | BROMOMETHANE | 1.572 | 1.649 | -4.9 | 96 | 0.00 | 2.19 |
| 15 | T | CHLOROETHANE | 0.931 | 1.104 | -18.6 | 104 | 0.00 | 2.26 |
| 16 | T | DICHLOROFLUOROMETHANE | 3.704 | 4.088 | -10.4 | 98 | 0.00 | 2.29 |
| 17 | T | ACETONITRILE | 1.391 | 1.351 | 2.9 | 90 | 0.00 | 2.38 |
| 18 | T | ACROLEIN | 0.614 | 0.976 | -59.0# | 111 | 0.00 | 2.42 |
| 19 | T | FREON 123 | 4.117 | 4.883 | -18.6 | 106 | 0.00 | 2.43 |
| 20 | T | FREON 123A | 2.381 | 2.508 | -5.3 | 94 | 0.00 | 2.45 |
| 21 | T | TRICHLOROFLUOROMETHANE | 5.177 | 5.830 | -12.6 | 99 | 0.00 | 2.52 |
| 22 | T | ISOPROPYL ALCOHOL | 4.132 | 4.115 | 0.4 | 96 | 0.00 | 2.53 |
| 23 | T | ACETONE | 1.318 | 1.212 | 8.0 | 101 | 0.00 | 2.46 |
| 24 | T | PENTANE | 2.264 | 2.476 | -9.4 | 103 | 0.00 | 2.63 |
| 25 | T | IODOMETHANE | 5.061 | 5.615 | -10.9 | 99 | 0.00 | 2.69 |
| 26 | T | 1,1-DICHLOROETHYLENE | 1.987 | 2.414 | -21.5 | 108 | 0.00 | 2.71 |
| 27 | T | CARBON DISULFIDE | 5.984 | 7.604 | -27.1 | 112 | 0.00 | 2.84 |
| 28 | T | ETHANOL | 0.813 | 0.655 | 19.4 | 88 | 0.00 | 2.29 |
| 29 | T | BROMOETHENE | 1.606 | 1.741 | -8.4 | 94 | 0.00 | 2.38 |
| 30 | T | ACRYLONITRILE | 1.561 | 1.837 | -17.7 | 103 | 0.00 | 2.60 |
| 31 | T | METHYLENE CHLORIDE | 2.205 | 2.393 | -8.5 | 116 | 0.00 | 2.75 |
| 32 | T | 3-CHLOROPROPENE | 1.020 | 1.177 | -15.4 | 108 | 0.00 | 2.79 |
| 33 | T | FREON 113 | 3.349 | 3.794 | -13.3 | 101 | 0.00 | 2.84 |
| 34 | T | TRANS-1,2-DICHLOROETHENE | 1.655 | 1.775 | -7.3 | 96 | 0.00 | 3.08 |
| 35 | T | TERTIARY BUTYL ALCOHOL | 5.206 | 5.342 | -2.6 | 94 | 0.00 | 2.72 |
| 36 | t | METHYL TERTIARY BUTYL ETH | 4.286 | 3.905 | 8.9 | 83 | 0.00 | 3.19 |
| 37 | T | TETRAHYDROFURAN | 0.723 | 0.816 | -12.9 | 94 | 0.00 | 3.90 |
| 38 | T | HEXANE | 2.890 | 3.140 | -8.7 | 97 | 0.00 | 3.66 |
| 39 | T | VINYL ACETATE | 0.407 | 0.429 | -5.4 | 88 | 0.00 | 3.23 |
| 40 | T | 1,1-DICHLOROETHANE | 2.961 | 3.393 | -14.6 | 102 | 0.00 | 3.16 |
| 41 | T | METHYL ETHYL KETONE | 0.736 | 0.818 | -11.1 | 94 | 0.00 | 3.33 |
| 42 | T | CIS-1,2-DICHLOROETHENE | 1.776 | 1.860 | -4.7 | 94 | 0.00 | 3.53 |

# Continuing Calibration Summary

**Job Number:** JD52620 **Sample:** V2W2736-CC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61653.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 43 | T | DIISOPROPYL ETHER | 0.846 | 0.964 | -13.9 | 102 | 0.00 | 3.67 |
| 44 | T | ETHYL ACETATE | 0.592 | 0.666 | -12.5 | 100 | 0.00 | 3.67 |
| 45 | T | METHYL ACRYLATE | 3.398 | 3.692 | -8.7 | 93 | 0.00 | 3.66 |
| 46 | T | CHLOROFORM | 3.619 | 3.903 | -7.8 | 97 | 0.00 | 3.69 |
| 47 | T | 2,4-DIMETHYLPENTANE | 3.367 | 3.539 | -5.1 | 96 | 0.00 | 4.19 |
| 48 | T | 1,1,1-TRICHLOROETHANE | 3.609 | 3.631 | -0.6 | 89 | 0.00 | 4.28 |
| 49 | T | CARBON TETRACHLORIDE | 3.576 | 3.613 | -1.0 | 87 | 0.00 | 4.71 |
| 50 | T | 1,2-DICHLOROETHANE | 2.451 | 2.715 | -10.8 | 98 | 0.00 | 4.11 |
| 51 | t | BENZENE | 5.167 | 5.400 | -4.5 | 95 | 0.00 | 4.60 |
| 52 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 89 | 0.00 | 4.93 |
| 53 | T | CYCLOHEXANE | 0.422 | 0.457 | -8.3 | 94 | 0.00 | 4.81 |
| 54 | T | 2,3-DIMETHYLPENTANE | 0.207 | 0.224 | -8.2 | 92 | 0.00 | 5.07 |
| 55 | T | TRICHLOROETHENE | 0.424 | 0.480 | -13.2 | 93 | 0.00 | 5.52 |
| 56 | T | 1,2-DICHLOROPROPANE | 0.382 | 0.444 | -16.2 | 102 | 0.00 | 5.28 |
| 57 | T | DIBROMOMETHANE | 0.436 | 0.435 | 0.2 | 89 | 0.00 | 5.24 |
| 58 | T | ETHYL ACRYLATE | 0.717 | 0.823 | -14.8 | 92 | 0.00 | 5.40 |
| 59 | T | BROMODICHLOROMETHANE | 0.700 | 0.806 | -15.1 | 96 | 0.00 | 5.46 |
| 60 | T | 2,2,4-TRIMETHYLPENTANE | 1.689 | 1.830 | -8.3 | 96 | 0.00 | 5.61 |
| 61 | T | 1,4-DIOXANE | 0.205 | 0.242 | -18.0 | 102 | 0.00 | 5.52 |
| 62 | T | HEPTANE | 0.532 | 0.497 | 6.6 | 83 | 0.00 | 5.94 |
| 63 | T | METHYL METHACRYLATE | 0.326 | 0.370 | -13.5 | 91 | 0.00 | 5.83 |
| 64 | T | METHYL ISOBUTYL KETONE | 0.272 | 0.350 | -28.7 | 100 | 0.00 | 6.57 |
| 65 | T | CIS-1,3-DICHLOROPROPENE | 0.506 | 0.545 | -7.7 | 89 | 0.00 | 6.47 |
| 66 | T | TOLUENE | 1.206 | 1.268 | -5.1 | 91 | 0.00 | 7.70 |
| 67 | T | 1,3-DICHLOROPROPANE | 0.573 | 0.631 | -10.1 | 93 | 0.00 | 7.75 |
| 68 | T | TRANS-1,3-DICHLOROPROPENE | 0.453 | 0.465 | -2.6 | 82 | 0.00 | 7.16 |
| 69 | T | 1,1,2-TRICHLOROETHANE | 0.353 | 0.385 | -9.1 | 95 | 0.00 | 7.32 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 70 | T | 2-HEXANONE | 10.000 | 11.972 | -19.7 | 106 | 0.00 | 8.26 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 71 | T | ETHYL METHACRYLATE | 0.475 | 0.598 | -25.9 | 93 | 0.00 | 8.40 |
| 72 | T | TETRACHLOROETHENE | 0.483 | 0.489 | -1.2 | 89 | 0.00 | 9.45 |
| 73 | T | DIBROMOCHLOROMETHANE | 0.688 | 0.774 | -12.5 | 89 | 0.00 | 8.24 |
| 74 | T | 1,2-DIBROMOETHANE | 0.643 | 0.704 | -9.5 | 91 | 0.00 | 8.59 |
| 75 | T | OCTANE | 0.715 | 0.684 | 4.3 | 83 | 0.00 | 9.59 |
| 76 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 84 | 0.00 | 10.59 |
| 77 | T | 1,1,1,2-TETRACHLOROETHANE | 0.542 | 0.595 | -9.8 | 87 | 0.00 | 10.68 |
| 78 | T | CHLOROBENZENE | 1.075 | 1.183 | -10.0 | 91 | 0.00 | 10.66 |
| 79 | t | ETHYLBENZENE | 1.713 | 1.923 | -12.3 | 91 | 0.00 | 11.55 |
| 80 | t | M,P-XYLENE | 1.303 | 1.483 | -13.8 | 91 | 0.00 | 11.98 |
| 81 | t | O-XYLENE | 1.332 | 1.526 | -14.6 | 92 | 0.00 | 12.92 |
| 82 | T | STYRENE | 0.953 | 1.154 | -21.1 | 91 | 0.00 | 12.70 |
| 83 | T | NONANE | 0.822 | 0.831 | -1.1 | 84 | 0.00 | 14.03 |
| 84 | T | BROMOFORM | 0.689 | 0.864 | -25.4 | 94 | 0.00 | 11.79 |
| 85 | T | 1,1,2,2-TETRACHLOROETHANE | 0.991 | 1.200 | -21.1 | 99 | 0.00 | 12.93 |
| 86 | T | 1,2,3-TRICHLOROPROPANE | 0.727 | 0.834 | -14.7 | 94 | 0.00 | 13.21 |
| 87 | S | 4-BROMOFLUOROBENZENE | 0.666 | 0.742 | -11.4 | 93 | 0.00 | 13.96 |
| 88 | T | ISOPROPYLBENZENE | 0.565 | 0.559 | 1.1 | 80 | 0.00 | 14.44 |
| 89 | T | BROMOBENZENE | 0.922 | 1.041 | -12.9 | 92 | 0.00 | 14.31 |
| 90 | T | 2-CHLOROTOLUENE | 0.474 | 0.518 | -9.3 | 89 | 0.00 | 15.44 |
| 91 | T | N-PROPYLBENZENE | 0.519 | 0.587 | -13.1 | 88 | 0.00 | 15.78 |
| 92 | T | 4-ETHYLTOLUENE | 1.912 | 2.230 | -16.6 | 92 | 0.00 | 16.15 |
| 93 | T | 1,3,5-TRIMETHYLBENZENE | 1.595 | 1.834 | -15.0 | 92 | 0.00 | 16.30 |
| 94 | T | ALPHA-METHYLSTYRENE | 0.671 | 0.934 | -39.2# | 105 | 0.00 | 16.50 |
| 95 | T | TERT-BUTYLBENZENE | 0.408 | 0.458 | -12.3 | 90 | 0.00 | 16.76 |
| 96 | T | 1,2,4-TRIMETHYLBENZENE | 1.705 | 1.996 | -17.1 | 95 | 0.00 | 16.77 |

# Continuing Calibration Summary

**Job Number:** JD52620 **Sample:** V2W2736-CC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61653.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 97 | T | BENZYL CHLORIDE | 1.056 | 0.945 | 10.5 | 70 | 0.00 | 16.85 |
| 98 | T | M-DICHLOROBENZENE | 1.121 | 1.295 | -15.5 | 94 | 0.00 | 16.83 |
| 99 | T | P-DICHLOROBENZENE | 1.136 | 1.303 | -14.7 | 93 | 0.00 | 16.91 |
| 100 | T | O-DICHLOROBENZENE | 1.103 | 1.261 | -14.3 | 95 | 0.00 | 17.20 |
| 101 | T | SEC-BUTYLBENZENE | 0.507 | 0.564 | -11.2 | 91 | 0.00 | 17.04 |
| 102 | T | 1,2,3-TRIMETHYLBENZENE | 1.613 | 1.894 | -17.4 | 94 | 0.00 | 17.15 |
| 103 | T | P-ISOPROPYLTOLUENE | 0.559 | 0.631 | -12.9 | 92 | 0.00 | 17.22 |
| 104 | T | N-BUTYLBENZENE | 0.517 | 0.586 | -13.3 | 91 | 0.00 | 17.56 |
| 105 | T | HEXACHLOROETHANE | 0.633 | 0.727 | -14.8 | 92 | 0.00 | 17.74 |
| 106 | T | HEXACHLOROBUTADIENE | 0.866 | 0.977 | -12.8 | 102 | 0.00 | 18.78 |
| 107 | T | 1,2,4-TRICHLOROBENZENE | 0.914 | 1.031 | -12.8 | 93 | 0.00 | 18.48 |
| 108 | T | NAPHTHALENE | 2.334 | 2.537 | -8.7 | 92 | 0.00 | 18.52 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2w61016.D M2W2709.M Thu Sep 29 09:14:28 2022

# Continuing Calibration Summary



**Job Number:** JD52620 **Sample:** V2W2737-CC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61685.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\2w61685.D Vial: 2
Acq On : 30 Sep 2022 7:35 am Operator: thomash
Sample : cc2709-10 Inst : MS2W
Misc : MS62556,V2w2737,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Wed Aug 24 16:16:55 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 106 | 0.00 | 3.61 |
| 2 | T | FREON 115 | | ----------NA---------- | | | | |
| 3 | T | FREON 152A | 0.841 | 0.838 | 0.4 | 103 | 0.00 | 1.86 |
| 4 | T | CHLORODIFLUOROMETHANE | 0.373 | 0.365 | 2.1 | 98 | 0.00 | 1.87 |
| 5 | T | CHLOROTRIFLUOROETHENE | 2.160 | 1.891 | 12.5 | 90 | 0.00 | 1.88 |
| 6 | T | DICHLORODIFLUOROMETHANE | 4.975 | 4.710 | 5.3 | 98 | 0.00 | 1.91 |
| 7 | T | PROPYLENE | 0.939 | 0.770 | 18.0 | 88 | 0.00 | 1.88 |
| 8 | T | 1-CHLORO-1,1-DIFLUOROETHA | 3.746 | 3.833 | -2.3 | 105 | 0.00 | 1.96 |
| 9 | T | FREON 114 | 4.481 | 4.426 | 1.2 | 103 | 0.00 | 2.00 |
| 10 | T | CHLOROMETHANE | 0.501 | 0.458 | 8.6 | 99 | 0.00 | 1.97 |
| 11 | T | VINYL CHLORIDE | 1.740 | 1.916 | -10.1 | 113 | 0.00 | 2.05 |
| 12 | t | 1,3-BUTADIENE | 1.344 | 1.285 | 4.4 | 98 | 0.00 | 2.10 |
| 13 | T | N-BUTANE | 2.340 | 2.018 | 13.8 | 95 | 0.00 | 2.12 |
| 14 | T | BROMOMETHANE | 1.572 | 1.549 | 1.5 | 104 | 0.00 | 2.20 |
| 15 | T | CHLOROETHANE | 0.931 | 1.034 | -11.1 | 113 | 0.00 | 2.26 |
| 16 | T | DICHLOROFLUOROMETHANE | 3.704 | 3.840 | -3.7 | 107 | 0.00 | 2.29 |
| 17 | T | ACETONITRILE | 1.391 | 1.272 | 8.6 | 98 | 0.00 | 2.38 |
| 18 | T | ACROLEIN | 0.614 | 0.901 | -46.7# | 118 | 0.00 | 2.42 |
| 19 | T | FREON 123 | 4.117 | 4.535 | -10.2 | 114 | 0.00 | 2.44 |
| 20 | T | FREON 123A | 2.381 | 2.322 | 2.5 | 101 | 0.00 | 2.46 |
| 21 | T | TRICHLOROFLUOROMETHANE | 5.177 | 5.433 | -4.9 | 107 | 0.00 | 2.52 |
| 22 | T | ISOPROPYL ALCOHOL | 4.132 | 3.830 | 7.3 | 103 | 0.00 | 2.54 |
| 23 | T | ACETONE | 1.318 | 1.132 | 14.1 | 109 | 0.00 | 2.47 |
| 24 | T | PENTANE | 2.264 | 2.307 | -1.9 | 111 | 0.00 | 2.63 |
| 25 | T | IODOMETHANE | 5.061 | 5.295 | -4.6 | 108 | 0.00 | 2.69 |
| 26 | T | 1,1-DICHLOROETHYLENE | 1.987 | 2.258 | -13.6 | 117 | 0.00 | 2.72 |
| 27 | T | CARBON DISULFIDE | 5.984 | 7.079 | -18.3 | 121 | 0.00 | 2.85 |
| 28 | T | ETHANOL | 0.813 | 0.604 | 25.7 | 94 | 0.00 | 2.30 |
| 29 | T | BROMOETHENE | 1.606 | 1.610 | -0.2 | 101 | 0.00 | 2.39 |
| 30 | T | ACRYLONITRILE | 1.561 | 1.719 | -10.1 | 111 | 0.00 | 2.61 |
| 31 | T | METHYLENE CHLORIDE | 2.205 | 2.226 | -1.0 | 124 | 0.00 | 2.75 |
| 32 | T | 3-CHLOROPROPENE | 1.020 | 1.085 | -6.4 | 115 | 0.00 | 2.79 |
| 33 | T | FREON 113 | 3.349 | 3.533 | -5.5 | 109 | 0.00 | 2.85 |
| 34 | T | TRANS-1,2-DICHLOROETHENE | 1.655 | 1.656 | -0.1 | 103 | 0.00 | 3.08 |
| 35 | T | TERTIARY BUTYL ALCOHOL | 5.206 | 5.047 | 3.1 | 102 | 0.00 | 2.72 |
| 36 | t | METHYL TERTIARY BUTYL ETH | 4.286 | 3.681 | 14.1 | 90 | 0.00 | 3.19 |
| 37 | T | TETRAHYDROFURAN | 0.723 | 0.729 | -0.8 | 97 | 0.00 | 3.91 |
| 38 | T | HEXANE | 2.890 | 2.923 | -1.1 | 105 | 0.00 | 3.67 |
| 39 | T | VINYL ACETATE | 0.407 | 0.407 | 0.0 | 96 | 0.00 | 3.23 |
| 40 | T | 1,1-DICHLOROETHANE | 2.961 | 3.220 | -8.7 | 112 | 0.00 | 3.16 |
| 41 | T | METHYL ETHYL KETONE | 0.736 | 0.783 | -6.4 | 104 | 0.00 | 3.33 |
| 42 | T | CIS-1,2-DICHLOROETHENE | 1.776 | 1.719 | 3.2 | 100 | 0.00 | 3.53 |

# Continuing Calibration Summary

**Job Number:** JD52620 **Sample:** V2W2737-CC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61685.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 43 | T | DIISOPROPYL ETHER | 0.846 | 0.892 | -5.4 | 109 | 0.00 | 3.67 |
| 44 | T | ETHYL ACETATE | 0.592 | 0.639 | -7.9 | 110 | 0.00 | 3.68 |
| 45 | T | METHYL ACRYLATE | 3.398 | 3.448 | -1.5 | 101 | 0.00 | 3.66 |
| 46 | T | CHLOROFORM | 3.619 | 3.671 | -1.4 | 106 | 0.00 | 3.69 |
| 47 | T | 2,4-DIMETHYLPENTANE | 3.367 | 3.323 | 1.3 | 104 | 0.00 | 4.20 |
| 48 | T | 1,1,1-TRICHLOROETHANE | 3.609 | 3.403 | 5.7 | 97 | 0.00 | 4.28 |
| 49 | T | CARBON TETRACHLORIDE | 3.576 | 3.379 | 5.5 | 94 | 0.00 | 4.71 |
| 50 | T | 1,2-DICHLOROETHANE | 2.451 | 2.548 | -4.0 | 107 | 0.00 | 4.11 |
| 51 | t | BENZENE | 5.167 | 5.015 | 2.9 | 102 | 0.00 | 4.60 |
| 52 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 4.93 |
| 53 | T | CYCLOHEXANE | 0.422 | 0.423 | -0.2 | 101 | 0.00 | 4.81 |
| 54 | T | 2,3-DIMETHYLPENTANE | 0.207 | 0.205 | 1.0 | 99 | 0.00 | 5.08 |
| 55 | T | TRICHLOROETHENE | 0.424 | 0.444 | -4.7 | 101 | 0.00 | 5.52 |
| 56 | T | 1,2-DICHLOROPROPANE | 0.382 | 0.412 | -7.9 | 110 | 0.00 | 5.28 |
| 57 | T | DIBROMOMETHANE | 0.436 | 0.404 | 7.3 | 97 | 0.00 | 5.24 |
| 58 | T | ETHYL ACRYLATE | 0.717 | 0.751 | -4.7 | 98 | 0.00 | 5.40 |
| 59 | T | BROMODICHLOROMETHANE | 0.700 | 0.737 | -5.3 | 102 | 0.00 | 5.46 |
| 60 | T | 2,2,4-TRIMETHYLPENTANE | 1.689 | 1.698 | -0.5 | 103 | 0.00 | 5.61 |
| 61 | T | 1,4-DIOXANE | 0.205 | 0.224 | -9.3 | 110 | 0.00 | 5.53 |
| 62 | T | HEPTANE | 0.532 | 0.458 | 13.9 | 89 | 0.00 | 5.94 |
| 63 | T | METHYL METHACRYLATE | 0.326 | 0.340 | -4.3 | 97 | 0.00 | 5.83 |
| 64 | T | METHYL ISOBUTYL KETONE | 0.272 | 0.322 | -18.4 | 107 | 0.00 | 6.57 |
| 65 | T | CIS-1,3-DICHLOROPROPENE | 0.506 | 0.502 | 0.8 | 95 | 0.00 | 6.47 |
| 66 | T | TOLUENE | 1.206 | 1.161 | 3.7 | 97 | 0.00 | 7.70 |
| 67 | T | 1,3-DICHLOROPROPANE | 0.573 | 0.583 | -1.7 | 101 | 0.00 | 7.76 |
| 68 | T | TRANS-1,3-DICHLOROPROPENE | 0.453 | 0.428 | 5.5 | 88 | 0.00 | 7.16 |
| 69 | T | 1,1,2-TRICHLOROETHANE | 0.353 | 0.360 | -2.0 | 103 | 0.00 | 7.32 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 70 | T | 2-HEXANONE | 10.000 | 10.943 | -9.4 | 113 | 0.00 | 8.26 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 71 | T | ETHYL METHACRYLATE | 0.475 | 0.549 | -15.6 | 100 | 0.00 | 8.40 |
| 72 | T | TETRACHLOROETHENE | 0.483 | 0.451 | 6.6 | 95 | 0.00 | 9.44 |
| 73 | T | DIBROMOCHLOROMETHANE | 0.688 | 0.716 | -4.1 | 97 | 0.00 | 8.24 |
| 74 | T | 1,2-DIBROMOETHANE | 0.643 | 0.644 | -0.2 | 97 | 0.00 | 8.59 |
| 75 | T | OCTANE | 0.715 | 0.632 | 11.6 | 89 | 0.00 | 9.59 |
| 76 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 96 | 0.00 | 10.59 |
| 77 | T | 1,1,1,2-TETRACHLOROETHANE | 0.542 | 0.563 | -3.9 | 95 | 0.00 | 10.68 |
| 78 | T | CHLOROBENZENE | 1.075 | 1.102 | -2.5 | 97 | 0.00 | 10.67 |
| 79 | t | ETHYLBENZENE | 1.713 | 1.799 | -5.0 | 97 | 0.00 | 11.55 |
| 80 | t | M,P-XYLENE | 1.303 | 1.396 | -7.1 | 99 | 0.00 | 11.98 |
| 81 | t | O-XYLENE | 1.332 | 1.438 | -8.0 | 100 | 0.00 | 12.92 |
| 82 | T | STYRENE | 0.953 | 1.072 | -12.5 | 97 | 0.00 | 12.70 |
| 83 | T | NONANE | 0.822 | 0.791 | 3.8 | 91 | 0.00 | 14.03 |
| 84 | T | BROMOFORM | 0.689 | 0.792 | -14.9 | 99 | 0.00 | 11.79 |
| 85 | T | 1,1,2,2-TETRACHLOROETHANE | 0.991 | 1.121 | -13.1 | 106 | 0.00 | 12.93 |
| 86 | T | 1,2,3-TRICHLOROPROPANE | 0.727 | 0.791 | -8.8 | 102 | 0.00 | 13.21 |
| 87 | S | 4-BROMOFLUOROBENZENE | 0.666 | 0.747 | -12.2 | 107 | 0.00 | 13.96 |
| 88 | T | ISOPROPYLBENZENE | 0.565 | 0.533 | 5.7 | 87 | 0.00 | 14.43 |
| 89 | T | BROMOBENZENE | 0.922 | 0.990 | -7.4 | 100 | 0.00 | 14.31 |
| 90 | T | 2-CHLOROTOLUENE | 0.474 | 0.492 | -3.8 | 96 | 0.00 | 15.45 |
| 91 | T | N-PROPYLBENZENE | 0.519 | 0.546 | -5.2 | 94 | 0.00 | 15.78 |
| 92 | T | 4-ETHYLTOLUENE | 1.912 | 2.091 | -9.4 | 99 | 0.00 | 16.15 |
| 93 | T | 1,3,5-TRIMETHYLBENZENE | 1.595 | 1.732 | -8.6 | 99 | 0.00 | 16.30 |
| 94 | T | ALPHA-METHYLSTYRENE | 0.671 | 0.883 | -31.6# | 114 | 0.00 | 16.50 |
| 95 | T | TERT-BUTYLBENZENE | 0.408 | 0.436 | -6.9 | 98 | 0.00 | 16.76 |
| 96 | T | 1,2,4-TRIMETHYLBENZENE | 1.705 | 1.876 | -10.0 | 102 | 0.00 | 16.77 |

# Continuing Calibration Summary

**Job Number:** JD52620 **Sample:** V2W2737-CC2709
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61685.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 97 | T | BENZYL CHLORIDE | 1.056 | 0.905 | 14.3 | 77 | 0.00 | 16.85 |
| 98 | T | M-DICHLOROBENZENE | 1.121 | 1.231 | -9.8 | 102 | 0.00 | 16.83 |
| 99 | T | P-DICHLOROBENZENE | 1.136 | 1.237 | -8.9 | 101 | 0.00 | 16.91 |
| 100 | T | O-DICHLOROBENZENE | 1.103 | 1.185 | -7.4 | 102 | 0.00 | 17.20 |
| 101 | T | SEC-BUTYLBENZENE | 0.507 | 0.538 | -6.1 | 99 | 0.00 | 17.04 |
| 102 | T | 1,2,3-TRIMETHYLBENZENE | 1.613 | 1.787 | -10.8 | 102 | 0.00 | 17.15 |
| 103 | T | P-ISOPROPYLTOLUENE | 0.559 | 0.598 | -7.0 | 100 | 0.00 | 17.22 |
| 104 | T | N-BUTYLBENZENE | 0.517 | 0.552 | -6.8 | 98 | 0.00 | 17.56 |
| 105 | T | HEXACHLOROETHANE | 0.633 | 0.684 | -8.1 | 99 | 0.00 | 17.74 |
| 106 | T | HEXACHLOROBUTADIENE | 0.866 | 0.913 | -5.4 | 109 | -0.01 | 18.78 |
| 107 | T | 1,2,4-TRICHLOROBENZENE | 0.914 | 0.975 | -6.7 | 101 | -0.01 | 18.47 |
| 108 | T | NAPHTHALENE | 2.334 | 2.372 | -1.6 | 98 | -0.01 | 18.52 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2w61016.D M2W2709.M Fri Sep 30 15:17:43 2022

# Initial Calibration Summary



**Job Number:** JD52620 **Sample:** V6W1105-ICC1105
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26008.D
**Project:** EPT, Ithaca, NY

Response Factor Report GCMS6W

Method : C:\msdchem\1\methods\M6W1105.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

Calibration Files
0.5 =6W26005.D 0.2 =6W26004.D 40 =6W26010.D 0.04=6W26014.D
5 =6W26007.D 10 =6W26008.D 20 =6W26009.D 0.1 =6W26015.D
50 =6W26011.D =

| Compound | 0.5 | 0.2 | 40 | 0.04 | 5 | 10 | 20 | 0.1 | 50 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) I BROMOCHLOROMETHANE | ----------ISTD---------- | | | | | | | | | | |
| 2) FREON 115 | | | | | | | | | | 0.000 | -1.00 |
| 3) FREON 152A | 0.788 | 0.703 | 0.843 | | 0.806 | 0.853 | 0.836 | 0.776 | 0.856 | 0.808 | 6.42 |
| 4) CHLORODIFLUOROMETHANE | 0.383 | 0.329 | 0.402 | | 0.375 | 0.404 | 0.392 | 0.391 | 0.405 | 0.385 | 6.50 |
| 5) CHLOROTRIFLUOROETHENE | 1.528 | 1.481 | 1.694 | | 1.585 | 1.683 | 1.647 | 1.602 | 1.741 | 1.620 | 5.43 |
| 6) DICHLORODIFLUOROMETHANE | 4.207 | 4.813 | 3.963 | 7.733 | 3.965 | 4.120 | 4.010 | 5.085 | 3.965 | 4.651 | 26.35 |
| 7) PROPYLENE | 1.074 | 1.070 | 1.214 | | 1.097 | 1.189 | 1.172 | 1.303 | 1.223 | 1.168 | 7.04 |
| 8) 1-CHLORO-1,1-DIFLUOROETHANE | 3.966 | 3.965 | 3.831 | 5.995 | 3.783 | 3.909 | 3.781 | 3.839 | 3.892 | 4.107 | 17.33 |
| 9) FREON 114 | 4.289 | 4.356 | 4.299 | 6.576 | 4.086 | 4.236 | 4.127 | 4.156 | 4.381 | 4.501 | 17.44 |
| 10) CHLOROMETHANE | 0.573 | 0.630 | 0.527 | | 0.538 | 0.555 | 0.524 | 0.717 | 0.531 | 0.574 | 11.74 |
| 11) VINYL CHLORIDE | 1.829 | 1.754 | 1.744 | 3.090 | 1.723 | 1.785 | 1.723 | 1.911 | 1.755 | 1.924 | 22.94 |
| 12) 1,3-BUTADIENE | 1.424 | 1.845 | 1.409 | | 1.361 | 1.405 | 1.375 | 1.459 | 1.404 | 1.460 | 10.85 |
| 13) N-BUTANE | 3.026 | 3.016 | 2.875 | | 2.833 | 2.925 | 2.828 | 3.503 | 2.872 | 2.985 | 7.46 |
| 14) BROMOMETHANE | 1.518 | 1.489 | 1.403 | | 1.386 | 1.423 | 1.378 | 1.558 | 1.427 | 1.448 | 4.56 |
| 15) CHLOROETHANE | 0.929 | 0.998 | 0.901 | | 0.884 | 0.917 | 0.878 | 1.113 | 0.918 | 0.942 | 8.29 |
| 16) DICHLOROFLUOROMETHANE | 3.828 | 3.716 | 3.813 | 6.897 | 3.732 | 3.848 | 3.728 | 3.773 | 3.888 | 4.136 | 25.07 |
| 17) ACETONITRILE | 2.039 | 1.905 | 1.813 | | 1.780 | 1.879 | 1.792 | 2.255 | 1.814 | 1.910 | 8.54 |
| 18) ACROLEIN | 0.864 | 0.930 | 0.875 | | 0.863 | 0.869 | 0.862 | 0.744 | 0.887 | 0.862 | 6.10 |
| 19) FREON 123 | 3.668 | 3.772 | 3.781 | 5.936 | 3.626 | 3.742 | 3.635 | 3.842 | 3.895 | 3.988 | 18.45 |
| 20) FREON 123A | 1.731 | 2.229 | 1.857 | 3.001 | 1.777 | 1.818 | 1.792 | 1.879 | 1.917 | 2.000 | 20.11 |
| 21) TRICHLOROFLUOROMETHANE | 3.895 | 4.051 | 3.980 | 6.576 | 3.878 | 3.932 | 3.841 | 4.062 | 4.082 | 4.255 | 20.56 |
| 22) ISOPROPYL ALCOHOL | 4.065 | 4.247 | 3.765 | | 3.767 | 3.908 | 3.821 | 5.362 | 3.865 | 4.100 | 13.07 |
| 23) ACETONE | | | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.966 | 1.006 | 0.905 | | 0.873 | 0.892 | 0.874 | 1.194 | 0.919 | 0.954 | 11.27 |
| 24) | PENTANE | | | | | | | | | | |
| | 2.118 | 2.065 | 2.017 | 3.991 | 1.969 | 2.054 | 1.978 | 2.448 | 2.032 | 2.297 | 28.37 |
| 25) | IODOMETHANE | | | | | | | | | | |
| | 3.609 | 3.595 | 3.671 | 5.438 | 3.446 | 3.613 | 3.518 | 3.550 | 3.781 | 3.802 | 16.32 |
| 26) | 1,1-DICHLOROETHYLENE | | | | | | | | | | |
| | 1.469 | 1.543 | 1.512 | | 1.433 | 1.504 | 1.469 | 1.525 | 1.558 | 1.502 | 2.79 |
| 27) | CARBON DISULFIDE | | | | | | | | | | |
| | 4.944 | 4.872 | 5.171 | 8.100 | 4.814 | 5.010 | 4.926 | 4.940 | 5.308 | 5.343 | 19.57 |
| 28) | ETHANOL | | | | | | | | | | |
| | 1.165 | 1.249 | 0.869 | | 0.916 | 0.914 | 0.887 | 1.283 | 0.894 | 1.022 | 17.38 |
| 29) | BROMOETHENE | | | | | | | | | | |
| | 1.437 | 1.321 | 1.402 | | 1.329 | 1.382 | 1.343 | 1.389 | 1.425 | 1.379 | 3.15 |
| 30) | ACRYLONITRILE | | | | | | | | | | |
| | 1.284 | 1.369 | 1.362 | | 1.337 | 1.377 | 1.326 | 1.506 | 1.370 | 1.366 | 4.70 |
| 31) | METHYLENE CHLORIDE | | | | | | | | | | |
| | 1.869 | 2.246 | 1.458 | | 1.473 | 1.495 | 1.423 | | 1.488 | 1.636 | 18.86 |
| 32) | 3-CHLOROPROPENE | | | | | | | | | | |
| | 0.767 | 0.756 | 0.793 | 1.115 | 0.765 | 0.792 | 0.774 | 0.687 | 0.817 | 0.807 | 14.96 |
| 33) | FREON 113 | | | | | | | | | | |
| | 2.412 | 2.386 | 2.466 | 3.772 | 2.288 | 2.384 | 2.352 | 2.292 | 2.554 | 2.545 | 18.36 |
| 34) | TRANS-1,2-DICHLOROETHENE | | | | | | | | | | |
| | 1.639 | 1.681 | 1.623 | | 1.590 | 1.616 | 1.585 | 1.760 | 1.664 | 1.645 | 3.48 |
| 35) | TERTIARY BUTYL ALCOHOL | | | | | | | | | | |
| | 3.403 | 3.524 | 3.583 | 5.669 | 3.388 | 3.554 | 3.543 | 3.211 | 3.735 | 3.734 | 19.82 |
| 36) | METHYL TERTIARY BUTYL ETHER | | | | | | | | | | |
| | 4.368 | 4.493 | 4.506 | 6.909 | 4.165 | 4.381 | 4.317 | 4.252 | 4.646 | 4.671 | 18.23 |
| 37) | TETRAHYDROFURAN | | | | | | | | | | |
| | 0.770 | 0.803 | 0.821 | | 0.792 | 0.815 | 0.796 | 0.732 | 0.841 | 0.796 | 4.22 |
| 38) | HEXANE | | | | | | | | | | |
| | 2.984 | 3.079 | 3.142 | 4.922 | 2.906 | 3.046 | 2.987 | 3.167 | 3.214 | 3.272 | 19.15 |
| 39) | VINYL ACETATE | | | | | | | | | | |
| | 0.438 | 0.476 | 0.461 | | 0.414 | 0.435 | 0.441 | 0.386 | 0.476 | 0.441 | 7.05 |
| 40) | 1,1-DICHLOROETHANE | | | | | | | | | | |
| | 3.154 | 3.195 | 3.169 | 5.551 | 3.155 | 3.236 | 3.100 | 3.209 | 3.226 | 3.444 | 22.97 |
| 41) | METHYL ETHYL KETONE | | | | | | | | | | |
| | 0.843 | 0.872 | 0.864 | | 0.827 | 0.837 | 0.841 | 0.774 | 0.879 | 0.842 | 3.92 |
| 42) | CIS-1,2-DICHLOROETHENE | | | | | | | | | | |
| | 1.714 | 1.689 | 1.640 | 3.113 | 1.601 | 1.652 | 1.606 | 1.642 | 1.676 | 1.815 | 26.91 |
| 43) | DIISOPROPYL ETHER | | | | | | | | | | |
| | 0.842 | 0.822 | 0.943 | | 0.864 | 0.889 | 0.884 | 0.922 | 0.961 | 0.891 | 5.46 |
| 44) | ETHYL ACETATE | | | | | | | | | | |
| | 0.610 | 0.587 | 0.681 | 0.848 | 0.631 | 0.655 | 0.651 | 0.546 | 0.694 | 0.656 | 13.03 |
| 45) | METHYL ACRYLATE | | | | | | | | | | |
| | 3.915 | 3.825 | 4.119 | 6.903 | 3.821 | 3.987 | 3.951 | 4.032 | 4.189 | 4.305 | 22.81 |
| 46) | CHLOROFORM | | | | | | | | | | |
| | 3.672 | 3.775 | 3.727 | 5.539 | 3.559 | 3.708 | 3.619 | 3.904 | 3.802 | 3.923 | 15.67 |
| 47) | 2,4-DIMETHYLPENTANE | | | | | | | | | | |
| | 3.421 | 3.685 | 3.523 | 4.679 | 3.399 | 3.524 | 3.415 | 3.797 | 3.562 | 3.667 | 10.95 |
| 48) | 1,1,1-TRICHLOROETHANE | | | | | | | | | | |
| | 3.483 | 3.569 | 3.434 | 4.471 | 3.326 | 3.434 | 3.344 | 3.268 | 3.488 | 3.535 | 10.27 |
| 49) | CARBON TETRACHLORIDE | | | | | | | | | | |
| | 3.267 | 3.354 | 3.323 | 4.952 | 3.140 | 3.288 | 3.192 | 2.860 | 3.375 | 3.417 | 17.46 |
| 50) | 1,2-DICHLOROETHANE | | | | | | | | | | |
| | 2.701 | 2.504 | 2.592 | 4.050 | 2.573 | 2.660 | 2.563 | 2.633 | 2.641 | 2.769 | 17.49 |
| 51) | BENZENE | | | | | | | | | | |
| | 5.287 | 5.282 | 5.117 | 7.187 | 5.004 | 5.185 | 5.014 | 5.209 | 5.174 | 5.384 | 12.70 |
| 52) | I 1,4-DIFLUOROBENZENE | ----------ISTD---------- | | | | | | | | | |
| 53) | CYCLOHEXANE | | | | | | | | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0.399 | 0.404 | 0.407 | | 0.389 | 0.394 | 0.398 | 0.414 | 0.409 | 0.402 | 2.07 |
| 54) | 2,3-DIMETHYLPENTANE | | | | | | | | | | | |
| | | 0.217 | 0.235 | 0.221 | | 0.209 | 0.212 | 0.213 | 0.231 | 0.221 | 0.220 | 4.21 |
| 55) | TRICHLOROETHENE | | | | | | | | | | | |
| | | 0.399 | 0.420 | 0.422 | 0.573 | 0.395 | 0.402 | 0.406 | 0.318 | 0.420 | 0.417 | 15.90 |
| 56) | 1,2-DICHLOROPROPANE | | | | | | | | | | | |
| | | 0.411 | 0.358 | 0.402 | 0.648 | 0.385 | 0.395 | 0.393 | 0.408 | 0.400 | 0.422 | 20.40 |
| 57) | DIBROMOMETHANE | | | | | | | | | | | |
| | | 0.352 | 0.354 | 0.359 | | 0.338 | 0.346 | 0.346 | 0.389 | 0.357 | 0.355 | 4.29 |
| 58) | ETHYL ACRYLATE | | | | | | | | | | | |
| | | 0.838 | 0.840 | 0.929 | 1.076 | 0.849 | 0.865 | 0.886 | 0.630 | 0.923 | 0.871 | 13.39 |
| 59) | BROMODICHLOROMETHANE | | | | | | | | | | | |
| | | 0.730 | 0.725 | 0.770 | 1.132 | 0.729 | 0.737 | 0.743 | 0.656 | 0.768 | 0.777 | 17.66 |
| 60) | 2,2,4-TRIMETHYLPENTANE | | | | | | | | | | | |
| | | 1.807 | 1.818 | 1.825 | 2.489 | 1.738 | 1.682 | 1.768 | 1.363 | 1.817 | 1.812 | 16.13 |
| 61) | 1,4-DIOXANE | | | | | | | | | | | |
| | | 0.222 | 0.227 | 0.211 | | 0.208 | 0.212 | 0.211 | 0.155 | 0.213 | 0.207 | 10.63 |
| 62) | HEPTANE | | | | | | | | | | | |
| | | 0.467 | 0.495 | 0.725 | 0.960 | 0.508 | 0.523 | 0.535 | 0.514 | 0.724 | 0.606 | 27.06 |
| 63) | METHYL METHACRYLATE | | | | | | | | | | | |
| | | 0.283 | 0.324 | 0.402 | | 0.283 | 0.305 | 0.317 | 0.228 | 0.401 | 0.318 | 18.69 |
| 64) | METHYL ISOBUTYL KETONE | | | | | | | | | | | |
| | | 0.223 | 0.203 | 0.289 | | 0.250 | 0.270 | 0.276 | 0.214 | 0.287 | 0.252 | 13.66 |
| 65) | CIS-1,3-DICHLOROPROPENE | | | | | | | | | | | |
| | | 0.400 | 0.391 | 0.498 | 0.668 | 0.426 | 0.457 | 0.475 | 0.427 | 0.498 | 0.471 | 17.70 |
| 66) | TOLUENE | | | | | | | | | | | |
| | | 0.792 | 0.785 | 0.988 | 1.458 | 0.862 | 0.906 | 0.940 | 0.821 | 0.989 | 0.949 | 21.71 |
| 67) | 1,3-DICHLOROPROPANE | | | | | | | | | | | |
| | | 0.433 | 0.432 | 0.530 | 0.923 | 0.483 | 0.495 | 0.509 | 0.499 | 0.528 | 0.537 | 27.78 |
| 68) | TRANS-1,3-DICHLOROPROPENE | | | | | | | | | | | |
| | | 0.355 | 0.365 | 0.470 | 0.749 | 0.380 | 0.415 | 0.444 | 0.404 | 0.475 | 0.451 | 26.55 |
| 69) | 1,1,2-TRICHLOROETHANE | | | | | | | | | | | |
| | | 0.281 | 0.276 | 0.312 | | 0.287 | 0.300 | 0.305 | 0.278 | 0.310 | 0.294 | 5.10 |
| 70) | 2-HEXANONE | | | | | | | | | | | |
| | | 0.245 | 0.260 | 0.391 | | 0.329 | 0.358 | 0.372 | 0.265 | 0.392 | 0.327 | 18.82 |
| 71) | ETHYL METHACRYLATE | | | | | | | | | | | |
| | | 0.364 | 0.358 | 0.559 | 0.636 | 0.458 | 0.500 | 0.526 | 0.355 | 0.561 | 0.480 | 21.37 |
| 72) | TETRACHLOROETHENE | | | | | | | | | | | |
| | | 0.303 | 0.285 | 0.350 | 0.520 | 0.315 | 0.324 | 0.336 | 0.355 | 0.348 | 0.348 | 19.66 |
| 73) | DIBROMOCHLOROMETHANE | | | | | | | | | | | |
| | | 0.484 | 0.488 | 0.595 | 0.907 | 0.528 | 0.551 | 0.567 | 0.544 | 0.595 | 0.584 | 21.81 |
| 74) | 1,2-DIBROMOETHANE | | | | | | | | | | | |
| | | 0.455 | 0.405 | 0.541 | 0.852 | 0.473 | 0.498 | 0.518 | 0.515 | 0.538 | 0.533 | 23.91 |
| 75) | OCTANE | | | | | | | | | | | |
| | | 0.577 | 0.559 | 0.797 | 1.115 | 0.674 | 0.723 | 0.754 | 0.631 | 0.797 | 0.736 | 22.68 |
| 76) | I CHLOROBENZENE-D5 | ---------- | | | | ISTD | | | | | | |
| 77) | 1,1,1,2-TETRACHLOROETHANE | | | | | | | | | | | |
| | | 0.484 | 0.474 | 0.543 | 0.755 | 0.503 | 0.517 | 0.526 | 0.462 | 0.553 | 0.535 | 16.43 |
| 78) | CHLOROBENZENE | | | | | | | | | | | |
| | | 0.963 | 0.906 | 1.033 | 1.503 | 0.975 | 0.998 | 1.004 | 1.001 | 1.047 | 1.048 | 16.77 |
| 79) | ETHYLBENZENE | | | | | | | | | | | |
| | | 1.463 | 1.497 | 1.773 | 2.308 | 1.589 | 1.666 | 1.713 | 1.349 | 1.801 | 1.684 | 16.48 |
| 80) | M,P-XYLENE | | | | | | | | | | | |
| | | 1.091 | 1.069 | 1.385 | 1.632 | 1.246 | 1.306 | 1.333 | 0.961 | 1.408 | 1.270 | 16.15 |
| 81) | O-XYLENE | | | | | | | | | | | |
| | | 1.075 | 1.150 | 1.426 | 1.693 | 1.281 | 1.321 | 1.362 | 1.014 | 1.451 | 1.308 | 16.04 |
| 82) | STYRENE | | | | | | | | | | | |
| | | 0.739 | 0.782 | 1.043 | 1.167 | 0.899 | 0.950 | 0.990 | 0.689 | 1.068 | 0.925 | 17.49 |
| 83) | NONANE | | | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.020 | 0.987 | 1.147 | 1.841 | 1.065 | 1.092 | 1.107 | 1.043 | 1.159 | 1.162 | 22.43 |
| 84) | BROMOFORM | | | | | | | | | | |
| | 0.692 | 0.740 | 0.799 | 0.953 | 0.719 | 0.743 | 0.765 | 0.620 | 0.815 | 0.761 | 12.15 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | | | | | | | | | | |
| | 1.073 | 1.053 | 1.173 | 1.583 | 1.093 | 1.115 | 1.126 | 1.071 | 1.190 | 1.164 | 14.06 |
| 86) | 1,2,3-TRICHLOROPROPANE | | | | | | | | | | |
| | 0.798 | 0.781 | 0.866 | 1.219 | 0.813 | 0.822 | 0.829 | 0.750 | 0.883 | 0.862 | 16.19 |
| 87) | 4-BROMOFLUOROBENZENE | | | | | | | | | | |
| | 0.713 | 0.705 | 0.764 | 0.705 | 0.733 | 0.737 | 0.748 | 0.702 | 0.770 | 0.731 | 3.58 |
| 88) | ISOPROPYLBENZENE | | | | | | | | | | |
| | 0.391 | 0.382 | 0.505 | | 0.444 | 0.468 | 0.482 | 0.340 | 0.519 | 0.441 | 14.51 |
| 89) | BROMOBENZENE | | | | | | | | | | |
| | 0.919 | 0.946 | 1.081 | 1.346 | 0.966 | 1.005 | 1.018 | 0.905 | 1.104 | 1.032 | 13.18 |
| 90) | 2-CHLOROTOLUENE | | | | | | | | | | |
| | 0.339 | 0.357 | 0.465 | | 0.402 | 0.425 | 0.438 | 0.322 | 0.472 | 0.402 | 14.26 |
| 91) | N-PROPYLBENZENE | | | | | | | | | | |
| | 0.372 | 0.405 | 0.526 | | 0.454 | 0.479 | 0.497 | 0.272 | 0.539 | 0.443 | 20.21 |
| 92) | 4-ETHYLTOLUENE | | | | | | | | | | |
| | 1.382 | 1.390 | 2.070 | 1.939 | 1.764 | 1.865 | 1.926 | 1.181 | 2.110 | 1.736 | 19.31 |
| 93) | 1,3,5-TRIMETHYLBENZENE | | | | | | | | | | |
| | 1.157 | 1.156 | 1.758 | 1.634 | 1.488 | 1.554 | 1.631 | 0.962 | 1.828 | 1.463 | 20.57 |
| 94) | ALPHA-METHYLSTYRENE | | | | | | | | | | |
| | 0.555 | 0.539 | 0.891 | | 0.726 | 0.770 | 0.818 | 0.437 | 0.915 | 0.706 | 24.97 |
| 95) | TERT-BUTYLBENZENE | | | | | | | | | | |
| | 0.273 | 0.349 | 0.429 | | 0.352 | 0.370 | 0.390 | 0.236 | 0.448 | 0.356 | 20.29 |
| 96) | 1,2,4-TRIMETHYLBENZENE | | | | | | | | | | |
| | 1.214 | 1.152 | 1.946 | 1.773 | 1.555 | 1.691 | 1.740 | 0.981 | 2.035 | 1.565 | 23.58 |
| 97) | BENZYL CHLORIDE | | | | | | | | | | |
| | 0.741 | 0.734 | 1.670 | | 1.068 | 1.243 | 1.396 | | 1.772 | 1.232 | 33.58 |
| 98) | M-DICHLOROBENZENE | | | | | | | | | | |
| | 0.934 | 0.878 | 1.218 | 1.358 | 1.029 | 1.088 | 1.135 | 0.875 | 1.272 | 1.087 | 16.01 |
| 99) | P-DICHLOROBENZENE | | | | | | | | | | |
| | 0.907 | 0.901 | 1.284 | 1.296 | 1.035 | 1.099 | 1.142 | 0.790 | 1.327 | 1.087 | 17.85 |
| 100) | O-DICHLOROBENZENE | | | | | | | | | | |
| | 0.904 | 0.872 | 1.260 | 1.333 | 1.003 | 1.073 | 1.132 | 0.829 | 1.320 | 1.081 | 17.92 |
| 101) | SEC-BUTYLBENZENE | | | | | | | | | | |
| | 0.345 | 0.373 | 0.551 | | 0.435 | 0.467 | 0.501 | 0.293 | 0.572 | 0.442 | 22.54 |
| 102) | 1,2,3-TRIMETHYLBENZENE | | | | | | | | | | |
| | 1.231 | 1.193 | 1.900 | 1.549 | 1.524 | 1.622 | 1.736 | 0.995 | 1.995 | 1.527 | 21.88 |
| 103) | P-ISOPROPYLTOLUENE | | | | | | | | | | |
| | 0.403 | 0.375 | 0.640 | | 0.492 | 0.533 | 0.571 | 0.279 | 0.678 | 0.496 | 27.57 |
| 104) | N-BUTYLBENZENE | | | | | | | | | | |
| | 0.339 | 0.343 | 0.614 | | 0.459 | 0.515 | 0.547 | 0.272 | 0.646 | 0.467 | 29.45 |
| 105) | HEXACHLOROETHANE | | | | | | | | | | |
| | 0.549 | 0.566 | 0.844 | 0.992 | 0.624 | 0.681 | 0.733 | 0.523 | 0.899 | 0.713 | 23.47 |
| 106) | HEXACHLOROBUTADIENE | | | | | | | | | | |
| | 0.812 | 0.799 | 1.289 | 1.326 | 0.892 | 0.959 | 1.052 | 0.785 | 1.398 | 1.035 | 23.56 |
| 107) | 1,2,4-TRICHLOROBENZENE | | | | | | | | | | |
| | 0.655 | 0.638 | 1.368 | 1.114 | 0.918 | 1.032 | 1.151 | 0.562 | 1.482 | 0.991 | 32.95 |
| 108) | NAPHTHALENE | | | | | | | | | | |
| | 1.529 | 1.405 | 3.409 | 2.245 | 2.403 | 2.676 | 2.936 | 1.288 | 3.620 | 2.390 | 35.87 |

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

M6W1105.M Wed Sep 21 12:51:54 2022

# Initial Calibration Verification



**Job Number:** JD52620 **Sample:** V6W1105-ICV1105
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26016.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\6W26016.D Vial: 4
Acq On : 16 Sep 2022 8:30 am Operator: thomash
Sample : icv1105-10 Inst : GCMS6W
Misc : MS62094,V6W1105,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1105.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Wed Sep 21 12:48:04 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 3.34 |
| 2 | T | FREON 115 | | ----------NA---------- | | | | |
| 3 | T | FREON 152A | 0.808 | 0.852 | -5.4 | 104 | 0.00 | 1.70 |
| 4 | T | CHLORODIFLUOROMETHANE | 0.385 | 0.392 | -1.8 | 101 | 0.00 | 1.71 |
| 5 | T | CHLOROTRIFLUOROETHENE | 1.620 | 1.626 | -0.4 | 100 | 0.00 | 1.72 |
| 6 | T | DICHLORODIFLUOROMETHANE | 4.651 | 3.882 | 16.5 | 98 | 0.00 | 1.73 |
| 7 | T | PROPYLENE | 1.168 | 1.179 | -0.9 | 103 | 0.00 | 1.72 |
| 8 | T | 1-CHLORO-1,1-DIFLUOROETHA | 4.107 | 3.711 | 9.6 | 99 | 0.00 | 1.77 |
| 9 | T | FREON 114 | 4.501 | 4.013 | 10.8 | 99 | 0.00 | 1.80 |
| 10 | T | CHLOROMETHANE | 0.574 | 0.547 | 4.7 | 103 | 0.00 | 1.78 |
| 11 | T | VINYL CHLORIDE | 1.924 | 1.711 | 11.1 | 100 | 0.00 | 1.83 |
| 12 | t | 1,3-BUTADIENE | 1.460 | 1.348 | 7.7 | 100 | 0.00 | 1.87 |
| 13 | T | N-BUTANE | 2.985 | 2.789 | 6.6 | 99 | 0.00 | 1.88 |
| 14 | T | BROMOMETHANE | 1.448 | 1.375 | 5.0 | 101 | 0.00 | 1.94 |
| 15 | T | CHLOROETHANE | 0.942 | 0.878 | 6.8 | 100 | 0.00 | 1.98 |
| 16 | T | DICHLOROFLUOROMETHANE | 4.136 | 3.577 | 13.5 | 97 | 0.00 | 2.00 |
| 17 | T | ACETONITRILE | 1.910 | 1.763 | 7.7 | 98 | 0.00 | 2.07 |
| 18 | T | ACROLEIN | 0.862 | 0.739 | 14.3 | 88 | 0.00 | 2.10 |
| 19 | T | FREON 123 | 3.988 | 3.666 | 8.1 | 102 | 0.00 | 2.12 |
| 20 | T | FREON 123A | 2.000 | 1.928 | 3.6 | 110 | 0.00 | 2.13 |
| 21 | T | TRICHLOROFLUOROMETHANE | 4.255 | 3.773 | 11.3 | 100 | 0.00 | 2.19 |
| 22 | T | ISOPROPYL ALCOHOL | 4.100 | 4.038 | 1.5 | 107 | 0.00 | 2.21 |
| 23 | T | ACETONE | 0.954 | 0.891 | 6.6 | 104 | 0.00 | 2.14 |
| 24 | T | PENTANE | 2.297 | 1.957 | 14.8 | 99 | 0.00 | 2.30 |
| 25 | T | IODOMETHANE | 3.802 | 3.213 | 15.5 | 93 | 0.00 | 2.36 |
| 26 | T | 1,1-DICHLOROETHYLENE | 1.502 | 1.434 | 4.5 | 99 | 0.00 | 2.39 |
| 27 | T | CARBON DISULFIDE | 5.343 | 4.521 | 15.4 | 94 | 0.00 | 2.52 |
| 28 | T | ETHANOL | 1.022 | 1.192 | -16.6 | 136 | 0.00 | 2.01 |
| 29 | T | BROMOETHENE | 1.379 | 1.345 | 2.5 | 101 | 0.00 | 2.07 |
| 30 | T | ACRYLONITRILE | 1.366 | 1.278 | 6.4 | 97 | 0.00 | 2.27 |
| 31 | T | METHYLENE CHLORIDE | 1.636 | 1.420 | 13.2 | 99 | 0.00 | 2.42 |
| 32 | T | 3-CHLOROPROPENE | 0.807 | 0.757 | 6.2 | 99 | 0.00 | 2.46 |
| 33 | T | FREON 113 | 2.545 | 2.223 | 12.7 | 97 | 0.00 | 2.52 |
| 34 | T | TRANS-1,2-DICHLOROETHENE | 1.645 | 1.517 | 7.8 | 98 | 0.00 | 2.77 |
| 35 | T | TERTIARY BUTYL ALCOHOL | 3.734 | 3.144 | 15.8 | 92 | 0.00 | 2.40 |
| 36 | t | METHYL TERTIARY BUTYL ETH | 4.671 | 4.205 | 10.0 | 100 | 0.00 | 2.89 |
| 37 | T | TETRAHYDROFURAN | 0.796 | 0.747 | 6.2 | 95 | 0.00 | 3.65 |
| 38 | T | HEXANE | 3.272 | 2.939 | 10.2 | 100 | 0.00 | 3.39 |
| 39 | T | VINYL ACETATE | 0.441 | 0.381 | 13.6 | 91 | 0.00 | 2.93 |
| 40 | T | 1,1-DICHLOROETHANE | 3.444 | 3.062 | 11.1 | 98 | 0.00 | 2.85 |
| 41 | T | METHYL ETHYL KETONE | 0.842 | 0.828 | 1.7 | 103 | 0.00 | 3.04 |
| 42 | T | CIS-1,2-DICHLOROETHENE | 1.815 | 1.584 | 12.7 | 100 | 0.00 | 3.25 |

# Initial Calibration Verification

**Job Number:** JD52620 **Sample:** V6W1105-ICV1105
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26016.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 43 | T | DIISOPROPYL ETHER | 0.891 | 0.841 | 5.6 | 98 | 0.00 | 3.40 |
| 44 | T | ETHYL ACETATE | 0.656 | 0.635 | 3.2 | 101 | 0.00 | 3.41 |
| 45 | T | METHYL ACRYLATE | 4.305 | 3.705 | 13.9 | 97 | 0.00 | 3.39 |
| 46 | T | CHLOROFORM | 3.923 | 3.458 | 11.9 | 97 | 0.00 | 3.42 |
| 47 | T | 2,4-DIMETHYLPENTANE | 3.667 | 3.292 | 10.2 | 97 | 0.00 | 3.95 |
| 48 | T | 1,1,1-TRICHLOROETHANE | 3.535 | 3.191 | 9.7 | 97 | 0.00 | 4.04 |
| 49 | T | CARBON TETRACHLORIDE | 3.417 | 3.003 | 12.1 | 95 | 0.00 | 4.50 |
| 50 | T | 1,2-DICHLOROETHANE | 2.769 | 2.486 | 10.2 | 97 | 0.00 | 3.87 |
| 51 | t | BENZENE | 5.384 | 4.881 | 9.3 | 98 | 0.00 | 4.38 |
| 52 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 4.73 |
| 53 | T | CYCLOHEXANE | 0.402 | 0.380 | 5.5 | 98 | 0.00 | 4.60 |
| 54 | T | 2,3-DIMETHYLPENTANE | 0.220 | 0.205 | 6.8 | 98 | 0.00 | 4.87 |
| 55 | T | TRICHLOROETHENE | 0.417 | 0.389 | 6.7 | 99 | 0.00 | 5.34 |
| 56 | T | 1,2-DICHLOROPROPANE | 0.422 | 0.374 | 11.4 | 97 | 0.00 | 5.10 |
| 57 | T | DIBROMOMETHANE | 0.355 | 0.328 | 7.6 | 97 | 0.00 | 5.06 |
| 58 | T | ETHYL ACRYLATE | 0.871 | 0.813 | 6.7 | 96 | 0.00 | 5.23 |
| 59 | T | BROMODICHLOROMETHANE | 0.777 | 0.705 | 9.3 | 97 | 0.00 | 5.30 |
| 60 | T | 2,2,4-TRIMETHYLPENTANE | 1.812 | 1.681 | 7.2 | 102 | 0.00 | 5.44 |
| 61 | T | 1,4-DIOXANE | 0.207 | 0.207 | 0.0 | 100 | 0.00 | 5.37 |
| 62 | T | HEPTANE | 0.606 | 0.661 | -9.1 | 129 | 0.00 | 5.78 |
| 63 | T | METHYL METHACRYLATE | 0.318 | 0.355 | -11.6 | 118 | 0.00 | 5.68 |
| 64 | T | METHYL ISOBUTYL KETONE | 0.252 | 0.267 | -6.0 | 101 | 0.00 | 6.47 |
| 65 | T | CIS-1,3-DICHLOROPROPENE | 0.471 | 0.568 | -20.6 | 127 | 0.00 | 6.34 |
| 66 | T | TOLUENE | 0.949 | 0.880 | 7.3 | 99 | 0.00 | 7.61 |
| 67 | T | 1,3-DICHLOROPROPANE | 0.537 | 0.484 | 9.9 | 100 | 0.00 | 7.68 |
| 68 | T | TRANS-1,3-DICHLOROPROPENE | 0.451 | 0.390 | 13.5 | 96 | 0.00 | 7.06 |
| 69 | T | 1,1,2-TRICHLOROETHANE | 0.294 | 0.287 | 2.4 | 97 | 0.00 | 7.23 |
| 70 | T | 2-HEXANONE | 0.327 | 0.358 | -9.5 | 102 | 0.00 | 8.23 |
| 71 | T | ETHYL METHACRYLATE | 0.480 | 0.470 | 2.1 | 96 | 0.00 | 8.35 |
| 72 | T | TETRACHLOROETHENE | 0.348 | 0.323 | 7.2 | 101 | 0.00 | 9.41 |
| 73 | T | DIBROMOCHLOROMETHANE | 0.584 | 0.525 | 10.1 | 97 | 0.00 | 8.18 |
| 74 | T | 1,2-DIBROMOETHANE | 0.533 | 0.477 | 10.5 | 97 | 0.00 | 8.53 |
| 75 | T | OCTANE | 0.736 | 0.698 | 5.2 | 98 | 0.00 | 9.55 |
| 76 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 10.59 |
| 77 | T | 1,1,1,2-TETRACHLOROETHANE | 0.535 | 0.476 | 11.0 | 96 | 0.00 | 10.68 |
| 78 | T | CHLOROBENZENE | 1.048 | 0.933 | 11.0 | 98 | 0.00 | 10.66 |
| 79 | t | ETHYLBENZENE | 1.684 | 1.536 | 8.8 | 96 | 0.00 | 11.56 |
| 80 | t | M,P-XYLENE | 1.270 | 1.210 | 4.7 | 97 | 0.00 | 12.00 |
| 81 | t | O-XYLENE | 1.308 | 1.246 | 4.7 | 99 | 0.00 | 12.95 |
| 82 | T | STYRENE | 0.925 | 0.829 | 10.4 | 91 | 0.00 | 12.74 |
| 83 | T | NONANE | 1.162 | 1.014 | 12.7 | 97 | 0.00 | 14.08 |
| 84 | T | BROMOFORM | 0.761 | 0.703 | 7.6 | 99 | 0.00 | 11.83 |
| 85 | T | 1,1,2,2-TETRACHLOROETHANE | 1.164 | 1.042 | 10.5 | 98 | 0.00 | 12.99 |
| 86 | T | 1,2,3-TRICHLOROPROPANE | 0.862 | 0.767 | 11.0 | 98 | 0.00 | 13.27 |
| 87 | S | 4-BROMOFLUOROBENZENE | 0.731 | 0.726 | 0.7 | 103 | 0.00 | 14.02 |
| 88 | T | ISOPROPYLBENZENE | 0.441 | 0.428 | 2.9 | 96 | 0.00 | 14.50 |
| 89 | T | BROMOBENZENE | 1.032 | 0.915 | 11.3 | 95 | 0.00 | 14.37 |
| 90 | T | 2-CHLOROTOLUENE | 0.402 | 0.377 | 6.2 | 93 | 0.00 | 15.52 |
| 91 | T | N-PROPYLBENZENE | 0.443 | 0.438 | 1.1 | 96 | 0.00 | 15.86 |
| 92 | T | 4-ETHYLTOLUENE | 1.736 | 1.707 | 1.7 | 96 | 0.00 | 16.20 |
| 93 | T | 1,3,5-TRIMETHYLBENZENE | 1.463 | 1.408 | 3.8 | 95 | 0.00 | 16.35 |
| 94 | T | ALPHA-METHYLSTYRENE | 0.706 | 0.592 | 16.1 | 80 | 0.00 | 16.54 |
| 95 | T | TERT-BUTYLBENZENE | 0.356 | 0.335 | 5.9 | 95 | 0.00 | 16.80 |
| 96 | T | 1,2,4-TRIMETHYLBENZENE | 1.565 | 1.510 | 3.5 | 93 | 0.00 | 16.80 |
| 97 | T | BENZYL CHLORIDE | 1.232 | 0.901 | 26.9 | 76 | 0.00 | 16.89 |
| 98 | T | M-DICHLOROBENZENE | 1.087 | 0.975 | 10.3 | 94 | 0.00 | 16.86 |
| 99 | T | P-DICHLOROBENZENE | 1.087 | 0.965 | 11.2 | 92 | 0.00 | 16.95 |
| 100 | T | O-DICHLOROBENZENE | 1.081 | 0.951 | 12.0 | 93 | 0.00 | 17.23 |

# Initial Calibration Verification

**Job Number:** JD52620 **Sample:** V6W1105-ICV1105
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26016.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 101 | T | SEC-BUTYLBENZENE | 0.442 | 0.425 | 3.8 | 95 | 0.00 | 17.07 |
| 102 | T | 1,2,3-TRIMETHYLBENZENE | 1.527 | 1.461 | 4.3 | 94 | 0.00 | 17.18 |
| 103 | T | P-ISOPROPYLTOLUENE | 0.496 | 0.467 | 5.8 | 92 | 0.00 | 17.25 |
| 104 | T | N-BUTYLBENZENE | 0.467 | 0.458 | 1.9 | 93 | 0.00 | 17.59 |
| 105 | T | HEXACHLOROETHANE | 0.713 | 0.536 | 24.8 | 82 | 0.00 | 17.77 |
| 106 | T | HEXACHLOROBUTADIENE | 1.035 | 0.845 | 18.4 | 92 | 0.00 | 18.80 |
| 107 | T | 1,2,4-TRICHLOROBENZENE | 0.991 | 0.877 | 11.5 | 89 | 0.00 | 18.50 |
| 108 | T | NAPHTHALENE | 2.390 | 2.133 | 10.8 | 83 | 0.00 | 18.55 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6W26008.D M6W1105.M Wed Sep 21 12:52:22 2022

# Continuing Calibration Summary



**Job Number:** JD52620 **Sample:** V6W1111-CC1105
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26135.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\6W26135.D Vial: 2
Acq On : 29 Sep 2022 1:13 pm Operator: thomash
Sample : cc1105-10 Inst : GCMS6W
Misc : MS62314,V6W1111,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1105.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Wed Sep 21 12:48:04 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | BROMOCHLOROMETHANE | 1.000 | 1.000 | 0.0 | 93 | 0.00 | 3.34 |
| 2 | T | FREON 115 | 0.000 | 0.305 | 0.0 | 0# | 0.00 | 1.67 |
| 3 | T | FREON 152A | 0.808 | 1.082 | -33.9# | 118 | 0.00 | 1.70 |
| 4 | T | CHLORODIFLUOROMETHANE | 0.385 | 0.501 | -30.1# | 115 | 0.00 | 1.71 |
| 5 | T | CHLOROTRIFLUOROETHENE | 1.620 | 1.991 | -22.9 | 110 | 0.00 | 1.72 |
| 6 | T | DICHLORODIFLUOROMETHANE | 4.651 | 5.680 | -22.1 | 128 | 0.00 | 1.73 |
| 7 | T | PROPYLENE | 1.168 | 1.384 | -18.5 | 108 | 0.00 | 1.71 |
| 8 | T | 1-CHLORO-1,1-DIFLUOROETHA | 4.107 | 4.307 | -4.9 | 102 | 0.00 | 1.77 |
| 9 | T | FREON 114 | 4.501 | 5.030 | -11.8 | 110 | 0.00 | 1.80 |
| 10 | T | CHLOROMETHANE | 0.574 | 0.594 | -3.5 | 99 | 0.00 | 1.77 |
| 11 | T | VINYL CHLORIDE | 1.924 | 2.024 | -5.2 | 105 | 0.00 | 1.83 |
| 12 | t | 1,3-BUTADIENE | 1.460 | 1.550 | -6.2 | 102 | 0.00 | 1.87 |
| 13 | T | N-BUTANE | 2.985 | 2.976 | 0.3 | 94 | 0.00 | 1.88 |
| 14 | T | BROMOMETHANE | 1.448 | 1.600 | -10.5 | 104 | 0.00 | 1.93 |
| 15 | T | CHLOROETHANE | 0.942 | 1.036 | -10.0 | 105 | 0.00 | 1.98 |
| 16 | T | DICHLOROFLUOROMETHANE | 4.136 | 4.466 | -8.0 | 108 | 0.00 | 2.00 |
| 17 | T | ACETONITRILE | 1.910 | 2.006 | -5.0 | 99 | 0.00 | 2.07 |
| 18 | T | ACROLEIN | 0.862 | 0.695 | 19.4 | 74 | 0.00 | 2.10 |
| 19 | T | FREON 123 | 3.988 | 4.257 | -6.7 | 105 | 0.00 | 2.12 |
| 20 | T | FREON 123A | 2.000 | 2.081 | -4.0 | 106 | 0.00 | 2.13 |
| 21 | T | TRICHLOROFLUOROMETHANE | 4.255 | 4.371 | -2.7 | 103 | 0.00 | 2.19 |
| 22 | T | ISOPROPYL ALCOHOL | 4.100 | 5.082 | -24.0 | 121 | 0.00 | 2.21 |
| 23 | T | ACETONE | 0.954 | 1.167 | -22.3 | 121 | 0.00 | 2.14 |
| 24 | T | PENTANE | 2.297 | 2.140 | 6.8 | 97 | 0.00 | 2.30 |
| 25 | T | IODOMETHANE | 3.802 | 3.435 | 9.7 | 88 | 0.00 | 2.36 |
| 26 | T | 1,1-DICHLOROETHYLENE | 1.502 | 1.760 | -17.2 | 109 | 0.00 | 2.38 |
| 27 | T | CARBON DISULFIDE | 5.343 | 5.905 | -10.5 | 109 | 0.00 | 2.52 |
| 28 | T | ETHANOL | 1.022 | 1.090 | -6.7 | 111 | 0.00 | 2.01 |
| 29 | T | BROMOETHENE | 1.379 | 1.605 | -16.4 | 108 | 0.00 | 2.07 |
| 30 | T | ACRYLONITRILE | 1.366 | 1.467 | -7.4 | 99 | 0.00 | 2.27 |
| 31 | T | METHYLENE CHLORIDE | 1.636 | 1.755 | -7.3 | 109 | 0.00 | 2.42 |
| 32 | T | 3-CHLOROPROPENE | 0.807 | 0.924 | -14.5 | 108 | 0.00 | 2.46 |
| 33 | T | FREON 113 | 2.545 | 2.448 | 3.8 | 95 | 0.00 | 2.52 |
| 34 | T | TRANS-1,2-DICHLOROETHENE | 1.645 | 1.884 | -14.5 | 108 | 0.00 | 2.77 |
| 35 | T | TERTIARY BUTYL ALCOHOL | 3.734 | 4.066 | -8.9 | 106 | 0.00 | 2.40 |
| 36 | t | METHYL TERTIARY BUTYL ETH | 4.671 | 5.195 | -11.2 | 110 | 0.00 | 2.89 |
| 37 | T | TETRAHYDROFURAN | 0.796 | 0.982 | -23.4 | 112 | 0.00 | 3.65 |
| 38 | T | HEXANE | 3.272 | 3.301 | -0.9 | 100 | 0.00 | 3.39 |
| 39 | T | VINYL ACETATE | 0.441 | 0.486 | -10.2 | 103 | 0.00 | 2.93 |
| 40 | T | 1,1-DICHLOROETHANE | 3.444 | 3.537 | -2.7 | 101 | 0.00 | 2.85 |
| 41 | T | METHYL ETHYL KETONE | 0.842 | 1.024 | -21.6 | 113 | 0.00 | 3.04 |
| 42 | T | CIS-1,2-DICHLOROETHENE | 1.815 | 1.909 | -5.2 | 107 | 0.00 | 3.25 |

# Continuing Calibration Summary

**Job Number:** JD52620 **Sample:** V6W1111-CC1105
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26135.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 43 | T | DIISOPROPYL ETHER | 0.891 | 1.015 | -13.9 | 106 | 0.00 | 3.40 |
| 44 | T | ETHYL ACETATE | 0.656 | 0.737 | -12.3 | 104 | 0.00 | 3.41 |
| 45 | T | METHYL ACRYLATE | 4.305 | 4.286 | 0.4 | 100 | 0.00 | 3.39 |
| 46 | T | CHLOROFORM | 3.923 | 4.268 | -8.8 | 107 | 0.00 | 3.42 |
| 47 | T | 2,4-DIMETHYLPENTANE | 3.667 | 3.737 | -1.9 | 98 | 0.00 | 3.95 |
| 48 | T | 1,1,1-TRICHLOROETHANE | 3.535 | 3.818 | -8.0 | 103 | 0.00 | 4.04 |
| 49 | T | CARBON TETRACHLORIDE | 3.417 | 3.484 | -2.0 | 98 | 0.00 | 4.50 |
| 50 | T | 1,2-DICHLOROETHANE | 2.769 | 2.925 | -5.6 | 102 | 0.00 | 3.87 |
| 51 | t | BENZENE | 5.384 | 6.410 | -19.1 | 115 | 0.00 | 4.38 |
| 52 | I | 1,4-DIFLUOROBENZENE | 1.000 | 1.000 | 0.0 | 97 | 0.00 | 4.73 |
| 53 | T | CYCLOHEXANE | 0.402 | 0.445 | -10.7 | 109 | 0.00 | 4.60 |
| 54 | T | 2,3-DIMETHYLPENTANE | 0.220 | 0.248 | -12.7 | 113 | 0.00 | 4.87 |
| 55 | T | TRICHLOROETHENE | 0.417 | 0.457 | -9.6 | 110 | 0.00 | 5.34 |
| 56 | T | 1,2-DICHLOROPROPANE | 0.422 | 0.440 | -4.3 | 108 | 0.00 | 5.10 |
| 57 | T | DIBROMOMETHANE | 0.355 | 0.363 | -2.3 | 102 | 0.00 | 5.05 |
| 58 | T | ETHYL ACRYLATE | 0.871 | 0.929 | -6.7 | 104 | 0.00 | 5.23 |
| 59 | T | BROMODICHLOROMETHANE | 0.777 | 0.829 | -6.7 | 109 | 0.00 | 5.29 |
| 60 | T | 2,2,4-TRIMETHYLPENTANE | 1.812 | 1.915 | -5.7 | 110 | 0.00 | 5.44 |
| 61 | T | 1,4-DIOXANE | 0.207 | 0.252 | -21.7 | 115 | 0.00 | 5.37 |
| 62 | T | HEPTANE | 0.606 | 0.734 | -21.1 | 136 | 0.00 | 5.78 |
| 63 | T | METHYL METHACRYLATE | 0.318 | 0.437 | -37.4# | 139 | 0.00 | 5.69 |
| 64 | T | METHYL ISOBUTYL KETONE | 0.252 | 0.300 | -19.0 | 108 | 0.00 | 6.47 |
| 65 | T | CIS-1,3-DICHLOROPROPENE | 0.471 | 0.569 | -20.8 | 121 | 0.00 | 6.34 |
| 66 | T | TOLUENE | 0.949 | 1.053 | -11.0 | 113 | 0.00 | 7.61 |
| 67 | T | 1,3-DICHLOROPROPANE | 0.537 | 0.584 | -8.8 | 114 | 0.00 | 7.68 |
| 68 | T | TRANS-1,3-DICHLOROPROPENE | 0.451 | 0.461 | -2.2 | 108 | 0.00 | 7.06 |
| 69 | T | 1,1,2-TRICHLOROETHANE | 0.294 | 0.347 | -18.0 | 112 | 0.00 | 7.23 |
| 70 | T | 2-HEXANONE | 0.327 | 0.369 | -12.8 | 100 | 0.00 | 8.23 |
| 71 | T | ETHYL METHACRYLATE | 0.480 | 0.559 | -16.5 | 108 | 0.00 | 8.35 |
| 72 | T | TETRACHLOROETHENE | 0.348 | 0.337 | 3.2 | 101 | 0.00 | 9.41 |
| 73 | T | DIBROMOCHLOROMETHANE | 0.584 | 0.539 | 7.7 | 95 | 0.00 | 8.18 |
| 74 | T | 1,2-DIBROMOETHANE | 0.533 | 0.537 | -0.8 | 104 | 0.00 | 8.53 |
| 75 | T | OCTANE | 0.736 | 0.812 | -10.3 | 109 | 0.00 | 9.55 |
| 76 | I | CHLOROBENZENE-D5 | 1.000 | 1.000 | 0.0 | 99 | 0.00 | 10.58 |
| 77 | T | 1,1,1,2-TETRACHLOROETHANE | 0.535 | 0.499 | 6.7 | 95 | 0.00 | 10.68 |
| 78 | T | CHLOROBENZENE | 1.048 | 1.050 | -0.2 | 104 | 0.00 | 10.66 |
| 79 | t | ETHYLBENZENE | 1.684 | 1.874 | -11.3 | 111 | 0.00 | 11.56 |
| 80 | t | M,P-XYLENE | 1.270 | 1.444 | -13.7 | 109 | 0.00 | 12.00 |
| 81 | t | O-XYLENE | 1.308 | 1.471 | -12.5 | 110 | 0.00 | 12.96 |
| 82 | T | STYRENE | 0.925 | 1.001 | -8.2 | 104 | 0.00 | 12.74 |
| 83 | T | NONANE | 1.162 | 1.193 | -2.7 | 108 | 0.00 | 14.08 |
| 84 | T | BROMOFORM | 0.761 | 0.689 | 9.5 | 92 | 0.00 | 11.82 |
| 85 | T | 1,1,2,2-TETRACHLOROETHANE | 1.164 | 1.255 | -7.8 | 111 | 0.00 | 12.98 |
| 86 | T | 1,2,3-TRICHLOROPROPANE | 0.862 | 0.956 | -10.9 | 115 | 0.00 | 13.27 |
| 87 | S | 4-BROMOFLUOROBENZENE | 0.731 | 0.781 | -6.8 | 105 | 0.00 | 14.02 |
| 88 | T | ISOPROPYLBENZENE | 0.441 | 0.499 | -13.2 | 105 | 0.00 | 14.50 |
| 89 | T | BROMOBENZENE | 1.032 | 1.133 | -9.8 | 112 | 0.00 | 14.37 |
| 90 | T | 2-CHLOROTOLUENE | 0.402 | 0.402 | 0.0 | 94 | 0.00 | 15.52 |
| 91 | T | N-PROPYLBENZENE | 0.443 | 0.487 | -9.9 | 101 | 0.00 | 15.86 |
| 92 | T | 4-ETHYLTOLUENE | 1.736 | 1.989 | -14.6 | 106 | 0.00 | 16.20 |
| 93 | T | 1,3,5-TRIMETHYLBENZENE | 1.463 | 1.643 | -12.3 | 105 | 0.00 | 16.35 |
| 94 | T | ALPHA-METHYLSTYRENE | 0.706 | 0.709 | -0.4 | 91 | 0.00 | 16.54 |
| 95 | T | TERT-BUTYLBENZENE | 0.356 | 0.354 | 0.6 | 95 | 0.00 | 16.80 |
| 96 | T | 1,2,4-TRIMETHYLBENZENE | 1.565 | 1.779 | -13.7 | 104 | 0.00 | 16.80 |
| 97 | T | BENZYL CHLORIDE | 1.232 | 1.168 | 5.2 | 93 | 0.00 | 16.89 |
| 98 | T | M-DICHLOROBENZENE | 1.087 | 1.045 | 3.9 | 95 | 0.00 | 16.87 |
| 99 | T | P-DICHLOROBENZENE | 1.087 | 1.048 | 3.6 | 94 | 0.00 | 16.95 |
| 100 | T | O-DICHLOROBENZENE | 1.081 | 1.024 | 5.3 | 94 | 0.00 | 17.24 |

# Continuing Calibration Summary

**Job Number:** JD52620 **Sample:** V6W1111-CC1105
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26135.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 101 | T | SEC-BUTYLBENZENE | 0.442 | 0.448 | -1.4 | 95 | 0.00 | 17.07 |
| 102 | T | 1,2,3-TRIMETHYLBENZENE | 1.527 | 1.720 | -12.6 | 105 | 0.00 | 17.18 |
| 103 | T | P-ISOPROPYLTOLUENE | 0.496 | 0.502 | -1.2 | 93 | 0.00 | 17.25 |
| 104 | T | N-BUTYLBENZENE | 0.467 | 0.478 | -2.4 | 92 | 0.00 | 17.60 |
| 105 | T | HEXACHLOROETHANE | 0.713 | 0.643 | 9.8 | 93 | 0.00 | 17.78 |
| 106 | T | HEXACHLOROBUTADIENE | 1.035 | 0.857 | 17.2 | 88 | 0.00 | 18.81 |
| 107 | T | 1,2,4-TRICHLOROBENZENE | 0.991 | 0.856 | 13.6 | 82 | 0.00 | 18.50 |
| 108 | T | NAPHTHALENE | 2.390 | 2.411 | -0.9 | 89 | 0.00 | 18.55 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6W26008.D M6W1105.M Fri Sep 30 13:53:55 2022

# Run Sequence Report



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Run ID:** V2W2619 **Method:** TO-15 **Instrument ID:** GCMS2W

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2W2619-BFB | 2W58805.D | 04/26/22 12:38 | n/a | BFB Tune |
| V2W2619-IC2619 | 2W58806.D | 04/26/22 13:14 | n/a | Initial cal 0.04 |
| V2W2619-IC2619 | 2W58807.D | 04/26/22 13:50 | n/a | Initial cal 0.1 |
| V2W2619-IC2619 | 2W58808.D | 04/26/22 14:27 | n/a | Initial cal 0.2 |
| V2W2619-IC2619 | 2W58809.D | 04/26/22 15:05 | n/a | Initial cal 0.5 |
| V2W2619-IC2619 | 2W58810.D | 04/26/22 15:42 | n/a | Initial cal 5 |
| V2W2619-ICC2619 | 2W58811.D | 04/26/22 16:18 | n/a | Initial cal 10 |
| V2W2619-IC2619 | 2W58812.D | 04/26/22 16:55 | n/a | Initial cal 20 |
| V2W2619-IC2619 | 2W58813.D | 04/26/22 17:37 | n/a | Initial cal 40 |
| V2W2619-IC2619 | 2W58814.D | 04/26/22 18:20 | n/a | Initial cal 50 |
| V2W2619-ICV2619 | 2W58819.D | 04/27/22 10:06 | n/a | Initial cal verification 10 |

# Run Sequence Report



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Run ID:** V2W2637 **Method:** TO-15 **Instrument ID:** GCMS2W

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2W2637-BFB | 2W59296.D | 05/14/22 14:24 | n/a | BFB Tune |
| V2W2637-CC2619 | 2W59298.D | 05/14/22 15:47 | n/a | Continuing cal 10 |
| V2W2637-BS | 2W59299.D | 05/14/22 16:25 | n/a | Blank Spike |
| V2W2637-BSD | 2W59300.D | 05/14/22 17:05 | n/a | Blank Spike Duplicate |
| V2W2637-MB | 2W59302.D | 05/14/22 18:25 | n/a | Method Blank |
| ZZZZZZ | 2W59303.D | 05/14/22 19:01 | n/a | (unrelated sample) |
| ZZZZZZ | 2W59304.D | 05/14/22 19:39 | n/a | (unrelated sample) |
| ZZZZZZ | 2W59305.D | 05/14/22 20:15 | n/a | (unrelated sample) |
| JD44674-1 | 2W59306.D | 05/14/22 20:53 | n/a | (used for QC only; not part of job JD52620) |
| JD44674-1DUP | 2W59307.D | 05/14/22 21:31 | n/a | Duplicate |
| ZZZZZZ | 2W59309.D | 05/14/22 22:44 | n/a | (unrelated sample) |
| ZZZZZZ | 2W59311.D | 05/14/22 23:57 | n/a | (unrelated sample) |
| ZZZZZZ | 2W59313.D | 05/15/22 01:10 | n/a | (unrelated sample) |
| V2W2637-SCC | 2W59315.D | 05/15/22 02:37 | n/a | Summa Cleaning Certification |
| V2W2637-SCC | 2W59316.D | 05/15/22 10:04 | n/a | Summa Cleaning Certification |
| V2W2637-SCC | 2W59317.D | 05/15/22 10:47 | n/a | Summa Cleaning Certification |
| V2W2637-SCC | 2W59319.D | 05/15/22 12:26 | n/a | Summa Cleaning Certification |

# Run Sequence Report



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V2W2709 | **Method:** TO-15 | **Instrument ID:** GCMS2W |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2W2709-BFB | 2W61009.D | 08/19/22 10:50 | n/a | BFB Tune |
| V2W2709-IC2709 | 2W61010.D | 08/19/22 11:22 | n/a | Initial cal 0.04 |
| V2W2709-IC2709 | 2W61011.D | 08/19/22 11:55 | n/a | Initial cal 0.1 |
| V2W2709-IC2709 | 2W61012.D | 08/19/22 12:27 | n/a | Initial cal 0.2 |
| V2W2709-IC2709 | 2W61013.D | 08/19/22 12:59 | n/a | Initial cal 0.5 |
| V2W2709-IC2709 | 2W61015.D | 08/19/22 14:02 | n/a | Initial cal 5 |
| V2W2709-ICC2709 | 2W61016.D | 08/19/22 14:34 | n/a | Initial cal 10 |
| V2W2709-IC2709 | 2W61017.D | 08/19/22 15:08 | n/a | Initial cal 20 |
| V2W2709-IC2709 | 2W61018.D | 08/19/22 15:45 | n/a | Initial cal 40 |
| V2W2709-IC2709 | 2W61019.D | 08/19/22 16:25 | n/a | Initial cal 50 |
| V2W2709-ICV2709 | 2W61022.D | 08/19/22 18:00 | n/a | Initial cal verification 10 |

# Run Sequence Report



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Run ID:** V2W2710 **Method:** TO-15 **Instrument ID:** GCMS2W

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2W2710-BFB | 2W61023.D | 08/24/22 19:28 | n/a | BFB Tune |
| V2W2710-CC2709 | 2W61024.D | 08/24/22 20:00 | n/a | Continuing cal 10 |
| V2W2710-BS | 2W61025.D | 08/24/22 20:49 | n/a | Blank Spike |
| V2W2710-BSD | 2W61026.D | 08/24/22 21:22 | n/a | Blank Spike Duplicate |
| V2W2710-MB | 2W61028.D | 08/24/22 22:32 | n/a | Method Blank |
| V2W2710-SCC | 2W61030.D | 08/24/22 23:48 | n/a | Summa Cleaning Certification |
| V2W2710-SCC | 2W61031.D | 08/25/22 00:26 | n/a | Summa Cleaning Certification |
| V2W2710-SCC | 2W61032.D | 08/25/22 01:04 | n/a | Summa Cleaning Certification |
| V2W2710-SCC | 2W61033.D | 08/25/22 01:42 | n/a | Summa Cleaning Certification |
| V2W2710-SCC | 2W61034.D | 08/25/22 02:20 | n/a | Summa Cleaning Certification |
| V2W2710-SCC | 2W61035.D | 08/25/22 02:57 | n/a | Summa Cleaning Certification |
| V2W2710-SCC | 2W61036.D | 08/25/22 03:34 | n/a | Summa Cleaning Certification |
| V2W2710-SCC | 2W61037.D | 08/25/22 04:06 | n/a | Summa Cleaning Certification |
| V2W2710-SCC | 2W61038.D | 08/25/22 04:38 | n/a | Summa Cleaning Certification |
| V2W2710-SCC | 2W61039.D | 08/25/22 05:09 | n/a | Summa Cleaning Certification |
| V2W2710-SCC | 2W61040.D | 08/25/22 05:40 | n/a | Summa Cleaning Certification |
| V2W2710-SCC | 2W61041.D | 08/25/22 06:13 | n/a | Summa Cleaning Certification |
| V2W2710-SCC | 2W61042.D | 08/25/22 06:44 | n/a | Summa Cleaning Certification |

# Run Sequence Report



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V2W2714 | **Method:** TO-15 | **Instrument ID:** GCMS2W |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2W2714-BFB | 2W61139.D | 08/30/22 08:49 | n/a | BFB Tune |
| V2W2714-CC2709 | 2W61140.D | 08/30/22 09:21 | n/a | Continuing cal 10 |
| V2W2714-BS | 2W61141.D | 08/30/22 10:20 | n/a | Blank Spike |
| V2W2714-BSD | 2W61142.D | 08/30/22 10:52 | n/a | Blank Spike Duplicate |
| V2W2714-MB | 2W61144.D | 08/30/22 12:13 | n/a | Method Blank |
| ZZZZZZ | 2W61145.D | 08/30/22 12:44 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61146.D | 08/30/22 13:24 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61147.D | 08/30/22 14:03 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61148.D | 08/30/22 14:42 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61152.D | 08/30/22 16:59 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61153.D | 08/30/22 17:39 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61154.D | 08/30/22 18:19 | n/a | (unrelated sample) |
| JD50792-4 | 2W61155.D | 08/30/22 18:58 | n/a | (used for QC only; not part of job JD52620) |
| JD50792-4DUP | 2W61156.D | 08/30/22 19:38 | n/a | Duplicate |
| ZZZZZZ | 2W61157.D | 08/30/22 20:19 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61158.D | 08/30/22 21:00 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61159.D | 08/30/22 21:43 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61162.D | 08/30/22 23:29 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61164.D | 08/31/22 00:49 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61165.D | 08/31/22 01:27 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61166.D | 08/31/22 02:00 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61167.D | 08/31/22 02:32 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61168.D | 08/31/22 03:04 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61169.D | 08/31/22 03:36 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61170.D | 08/31/22 04:11 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61171.D | 08/31/22 04:44 | n/a | (unrelated sample) |
| V2W2714-SCC | 2W61172.D | 08/31/22 05:16 | n/a | Summa Cleaning Certification |
| V2W2714-SCC | 2W61173.D | 08/31/22 05:48 | n/a | Summa Cleaning Certification |
| V2W2714-SCC | 2W61174.D | 08/31/22 06:20 | n/a | Summa Cleaning Certification |
| V2W2714-SCC | 2W61176.D | 08/31/22 07:34 | n/a | Summa Cleaning Certification |

# Run Sequence Report



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Run ID:** V2W2735 **Method:** TO-15 **Instrument ID:** GCMS2W

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2W2735-BFB | 2W61632.D | 09/28/22 07:23 | n/a | BFB Tune |
| V2W2735-CC2709 | 2W61633.D | 09/28/22 07:54 | n/a | Continuing cal 10 |
| V2W2735-BS | 2W61634.D | 09/28/22 08:44 | n/a | Blank Spike |
| V2W2735-BSD | 2W61635.D | 09/28/22 09:16 | n/a | Blank Spike Duplicate |
| V2W2735-MB | 2W61637.D | 09/28/22 10:50 | n/a | Method Blank |
| ZZZZZZ | 2W61638.D | 09/28/22 12:40 | n/a | (unrelated sample) |
| JD52482-2 | 2W61639.D | 09/28/22 13:12 | n/a | (used for QC only; not part of job JD52620) |
| JD52482-2DUP | 2W61640.D | 09/28/22 13:44 | n/a | Duplicate |
| ZZZZZZ | 2W61642.D | 09/28/22 14:48 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61643.D | 09/28/22 15:19 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61644.D | 09/28/22 15:52 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61645.D | 09/28/22 16:23 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61646.D | 09/28/22 17:02 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61647.D | 09/28/22 17:34 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61648.D | 09/28/22 18:06 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61649.D | 09/28/22 18:44 | n/a | (unrelated sample) |
| JD52620-1 | 2W61650.D | 09/28/22 19:16 | n/a | EW-1-62C |
| JD52620-2 | 2W61651.D | 09/28/22 19:49 | n/a | EW-2-62C |

# Run Sequence Report



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Run ID:** V2W2736 **Method:** TO-15 **Instrument ID:** GCMS2W

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2W2736-BFB | 2W61652.D | 09/29/22 07:11 | n/a | BFB Tune |
| V2W2736-CC2709 | 2W61653.D | 09/29/22 07:42 | n/a | Continuing cal 10 |
| V2W2736-BS | 2W61654.D | 09/29/22 08:23 | n/a | Blank Spike |
| V2W2736-BSD | 2W61655.D | 09/29/22 08:55 | n/a | Blank Spike Duplicate |
| V2W2736-MB | 2W61657.D | 09/29/22 10:25 | n/a | Method Blank |
| JD52620-13 | 2W61658.D | 09/29/22 12:44 | n/a | TRIP BLANK |
| JD52620-3 | 2W61659.D | 09/29/22 13:15 | n/a | EW-3-60C |
| JD52620-4 | 2W61660.D | 09/29/22 13:47 | n/a | EW-4-25B |
| JD52620-5 | 2W61661.D | 09/29/22 14:39 | n/a | EW-5-25B |
| JD52620-6 | 2W61662.D | 09/29/22 15:12 | n/a | EW-6-60C |
| JD52620-7 | 2W61663.D | 09/29/22 15:44 | n/a | EW-7-25B |
| JD52620-8 | 2W61664.D | 09/29/22 16:16 | n/a | EW-8-62C |
| JD52620-8DUP | 2W61665.D | 09/29/22 16:48 | n/a | Duplicate |
| JD52620-9 | 2W61666.D | 09/29/22 17:19 | n/a | EW-9R-72C |
| JD52620-10 | 2W61667.D | 09/29/22 17:52 | n/a | EW-10-25B |
| JD52620-12 | 2W61669.D | 09/29/22 18:55 | n/a | EW-12-45C |
| ZZZZZZ | 2W61670.D | 09/29/22 19:33 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61671.D | 09/29/22 20:05 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61672.D | 09/29/22 20:37 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61673.D | 09/29/22 21:09 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61674.D | 09/29/22 21:41 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61675.D | 09/29/22 22:13 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61676.D | 09/29/22 22:46 | n/a | (unrelated sample) |
| V2W2736-SCC | 2W61679.D | 09/30/22 00:26 | n/a | Summa Cleaning Certification |
| V2W2736-SCC | 2W61680.D | 09/30/22 00:57 | n/a | Summa Cleaning Certification |
| V2W2736-SCC | 2W61681.D | 09/30/22 01:29 | n/a | Summa Cleaning Certification |
| V2W2736-SCC | 2W61682.D | 09/30/22 02:00 | n/a | Summa Cleaning Certification |
| V2W2736-SCC | 2W61683.D | 09/30/22 02:32 | n/a | Summa Cleaning Certification |

# Run Sequence Report



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V2W2737 | **Method:** TO-15 | **Instrument ID:** GCMS2W |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2W2737-BFB | 2W61684.D | 09/30/22 07:04 | n/a | BFB Tune |
| V2W2737-CC2709 | 2W61685.D | 09/30/22 07:35 | n/a | Continuing cal 10 |
| V2W2737-BS | 2W61686.D | 09/30/22 08:44 | n/a | Blank Spike |
| V2W2737-BSD | 2W61687.D | 09/30/22 09:16 | n/a | Blank Spike Duplicate |
| V2W2737-MB | 2W61689.D | 09/30/22 10:47 | n/a | Method Blank |
| V2W2737-SCC | 2W61690.D | 09/30/22 11:34 | n/a | Summa Cleaning Certification |
| JD52620-11 | 2W61692.D | 09/30/22 12:43 | n/a | EW-11-43C |
| JD52620-9 | 2W61693.D | 09/30/22 13:15 | n/a | EW-9R-72C |
| ZZZZZZ | 2W61694.D | 09/30/22 13:47 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61695.D | 09/30/22 14:20 | n/a | (unrelated sample) |
| JD52638-1 | 2W61696.D | 09/30/22 14:58 | n/a | (used for QC only; not part of job JD52620) |
| JD52638-1DUP | 2W61697.D | 09/30/22 15:37 | n/a | Duplicate |
| ZZZZZZ | 2W61698.D | 09/30/22 16:08 | n/a | (unrelated sample) |
| ZZZZZZ | 2W61699.D | 09/30/22 16:41 | n/a | (unrelated sample) |

# Run Sequence Report



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V6W1105 | **Method:** TO-15 | **Instrument ID:** GCMS6W |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V6W1105-BFB | 6W26001.D | 09/15/22 09:18 | n/a | BFB Tune |
| V6W1105-IC1105 | 6W26004.D | 09/15/22 11:32 | n/a | Initial cal 0.2 |
| V6W1105-IC1105 | 6W26005.D | 09/15/22 12:06 | n/a | Initial cal 0.5 |
| V6W1105-IC1105 | 6W26007.D | 09/15/22 13:12 | n/a | Initial cal 5 |
| V6W1105-ICC1105 | 6W26008.D | 09/15/22 13:46 | n/a | Initial cal 10 |
| V6W1105-IC1105 | 6W26009.D | 09/15/22 14:22 | n/a | Initial cal 20 |
| V6W1105-IC1105 | 6W26010.D | 09/15/22 15:01 | n/a | Initial cal 40 |
| V6W1105-IC1105 | 6W26011.D | 09/15/22 15:43 | n/a | Initial cal 50 |
| V6W1105-IC1105 | 6W26014.D | 09/15/22 17:22 | n/a | Initial cal 0.04 |
| V6W1105-IC1105 | 6W26015.D | 09/15/22 17:55 | n/a | Initial cal 0.1 |
| V6W1105-ICV1105 | 6W26016.D | 09/16/22 08:30 | n/a | Initial cal verification 10 |

# Run Sequence Report



**Job Number:** JD52620
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V6W1111 | **Method:** TO-15 | **Instrument ID:** GCMS6W |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V6W1111-BFB | 6W26133.D | 09/29/22 09:55 | n/a | BFB Tune |
| V6W1111-CC1105 | 6W26135.D | 09/29/22 13:13 | n/a | Continuing cal 10 |
| V6W1111-BS | 6W26138.D | 09/29/22 15:45 | n/a | Blank Spike |
| V6W1111-BSD | 6W26139.D | 09/29/22 16:28 | n/a | Blank Spike Duplicate |
| V6W1111-MB | 6W26141.D | 09/29/22 18:06 | n/a | Method Blank |
| ZZZZZZ | 6W26142.D | 09/29/22 18:53 | n/a | (unrelated sample) |
| JD52615-1 | 6W26143.D | 09/29/22 19:34 | n/a | (used for QC only; not part of job JD52620) |
| JD52615-1DUP | 6W26144.D | 09/29/22 20:17 | n/a | Duplicate |
| ZZZZZZ | 6W26145.D | 09/29/22 20:57 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26146.D | 09/29/22 21:40 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26147.D | 09/29/22 22:21 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26148.D | 09/29/22 23:03 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26149.D | 09/29/22 23:44 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26150.D | 09/30/22 00:26 | n/a | (unrelated sample) |
| ZZZZZZ | 6W26151.D | 09/30/22 01:07 | n/a | (unrelated sample) |
| JD52620-3 | 6W26152.D | 09/30/22 01:51 | n/a | EW-3-60C |
| JD52620-5 | 6W26153.D | 09/30/22 02:34 | n/a | EW-5-25B |
| JD52620-6 | 6W26154.D | 09/30/22 03:18 | n/a | EW-6-60C |
| JD52620-7 | 6W26155.D | 09/30/22 04:00 | n/a | EW-7-25B |
| JD52620-8 | 6W26156.D | 09/30/22 04:43 | n/a | EW-8-62C |

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61650.D
Acq On : 28 Sep 2022 7:16 pm
Operator : thomash
Sample : jd52620-1
Misc : MS62557,V2w2735,100,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 30 17:07:56 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

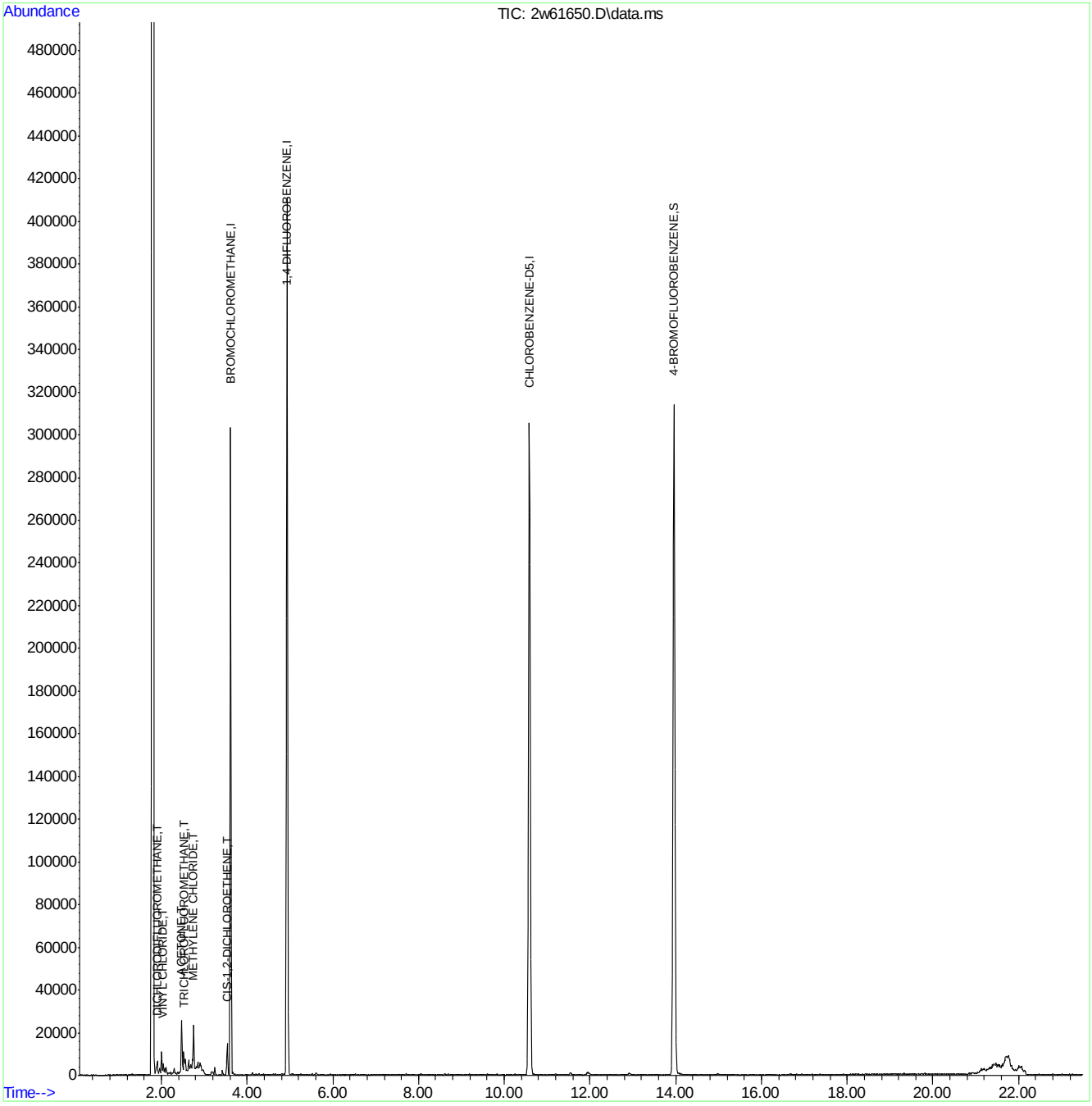
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.615 | 128 | 62115 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.933 | 114 | 321757 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.589 | 117 | 266070 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.962 | 95 | 186384 | 10.52 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 6) DICHLORODIFLUOROMETHANE | 1.904 | 85 | 3142 | 0.10 | PPBV | # 85 |
| 11) VINYL CHLORIDE | 2.042 | 62 | 3414 | 0.32 | PPBV | # 91 |
| 21) TRICHLOROFLUOROMETHANE | 2.525 | 101 | 4182 | 0.13 | PPBV | # 94 |
| 23) ACETONE | 2.467 | 58 | 6593 | 0.81 | PPBV | 95 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 5154 | 0.38 | PPBV | 86 |
| 42) CIS-1,2-DICHLOROETHENE | 3.531 | 96 | 4455 | 0.40 | PPBV | 93 |

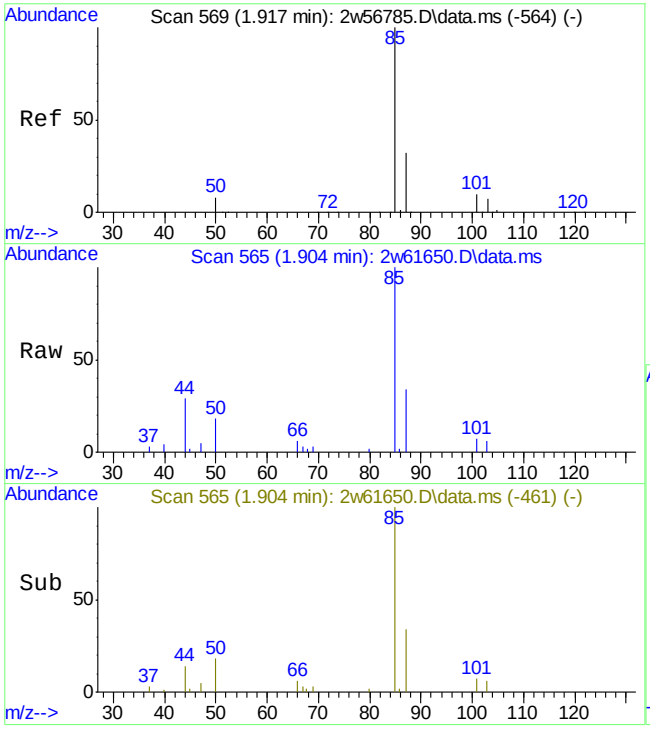
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61650.D
Acq On : 28 Sep 2022 7:16 pm
Operator : thomash
Sample : jd52620-1
Misc : MS62557,V2w2735,100,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 30 17:07:56 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

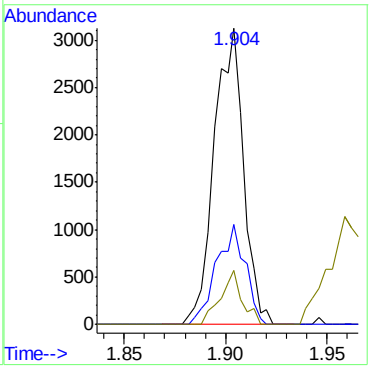


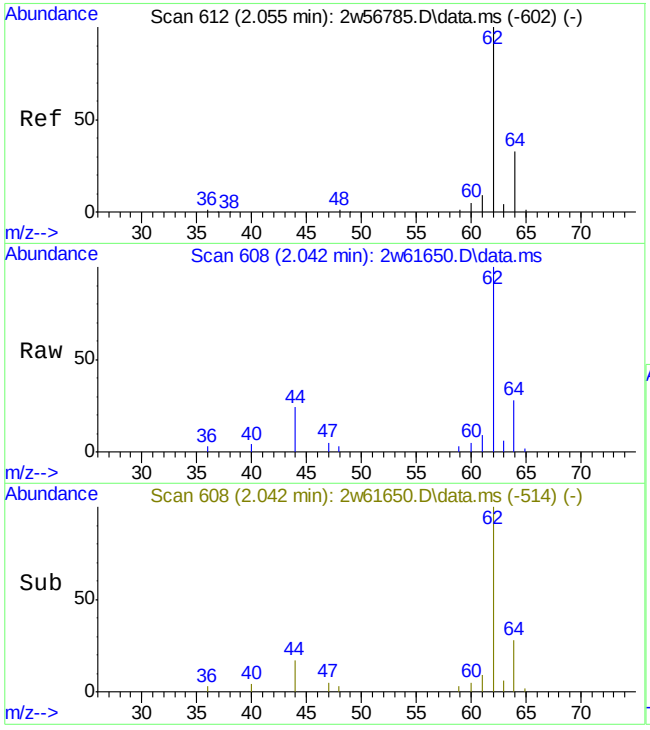



#6
DICHLORODIFLUOROMETHANE
Concen: 0.10 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.003 min
Lab File: 2w61650.D
Acq: 28 Sep 2022 7:16 pm

Tgt Ion: 85 Resp: 3142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.9 | 25.9 | 38.9 |
| 50 | 0.0 | 14.6 | 21.8# |

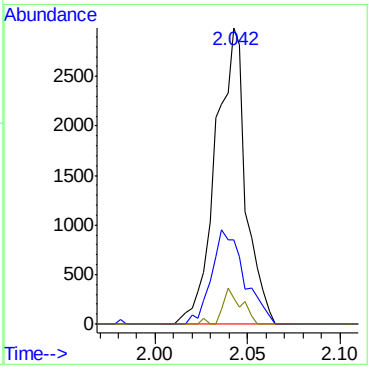


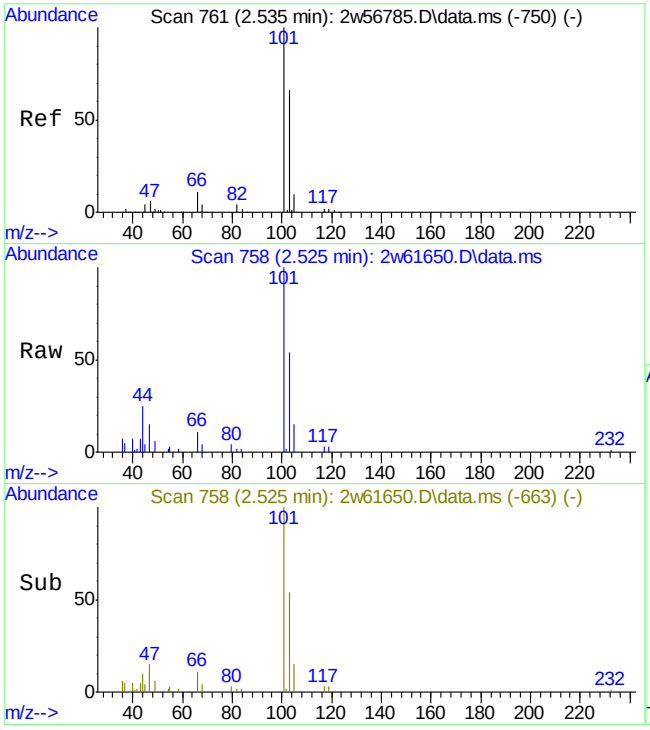




#11
VINYL CHLORIDE
Concen: 0.32 PPBV
RT: 2.042 min Scan# 608
Delta R.T. 0.003 min
Lab File: 2w61650.D
Acq: 28 Sep 2022 7:16 pm

Tgt Ion: 62 Resp: 3414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 34.3 | 25.2 | 37.8 |
| 61 | 0.0 | 7.0 | 10.4# |

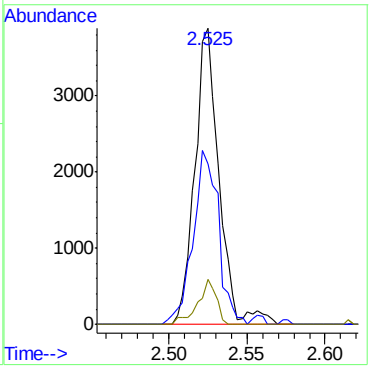


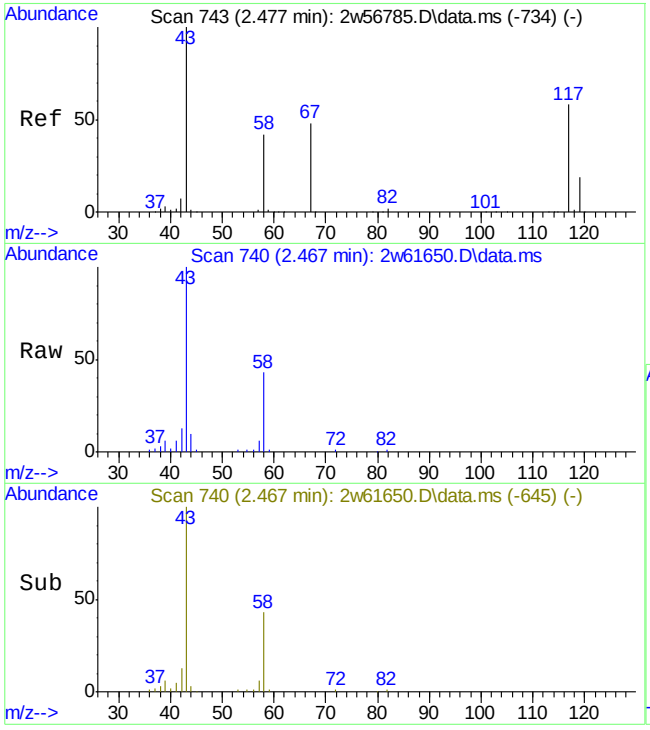



#21
TRICHLOROFLUOROMETHANE
Concen: 0.13 PPBV
RT: 2.525 min Scan# 758
Delta R.T. 0.006 min
Lab File: 2w61650.D
Acq: 28 Sep 2022 7:16 pm

Tgt Ion:101 Resp: 4182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.3 | 52.1 | 78.1 |
| 105 | 0.0 | 8.3 | 12.5# |

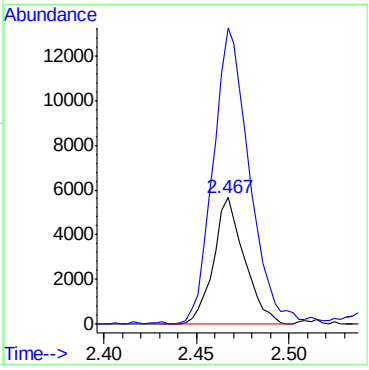


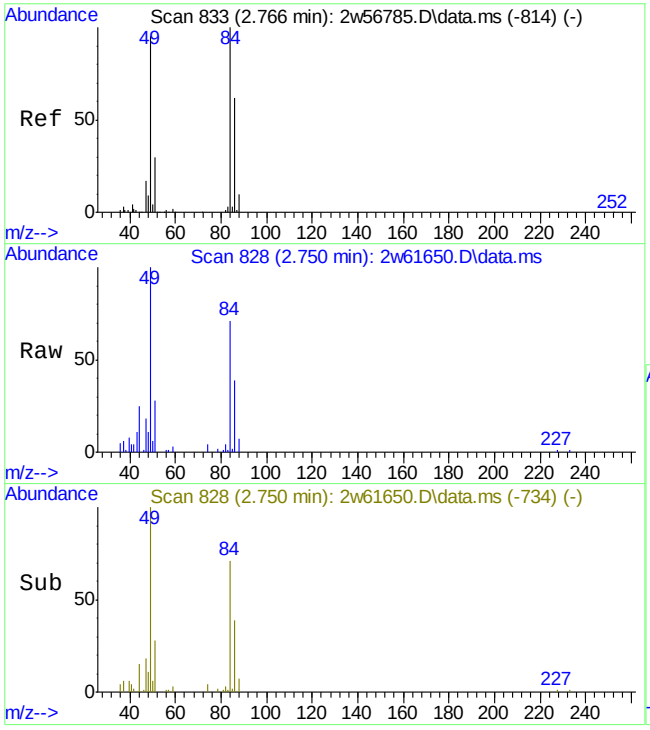




#23
ACETONE
Concen: 0.81 PPBV
RT: 2.467 min Scan# 740
Delta R.T. 0.006 min
Lab File: 2w61650.D
Acq: 28 Sep 2022 7:16 pm

Tgt Ion: 58 Resp: 6593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 278.1 | 229.9 | 344.9 |

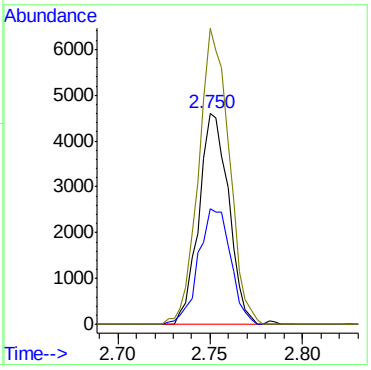


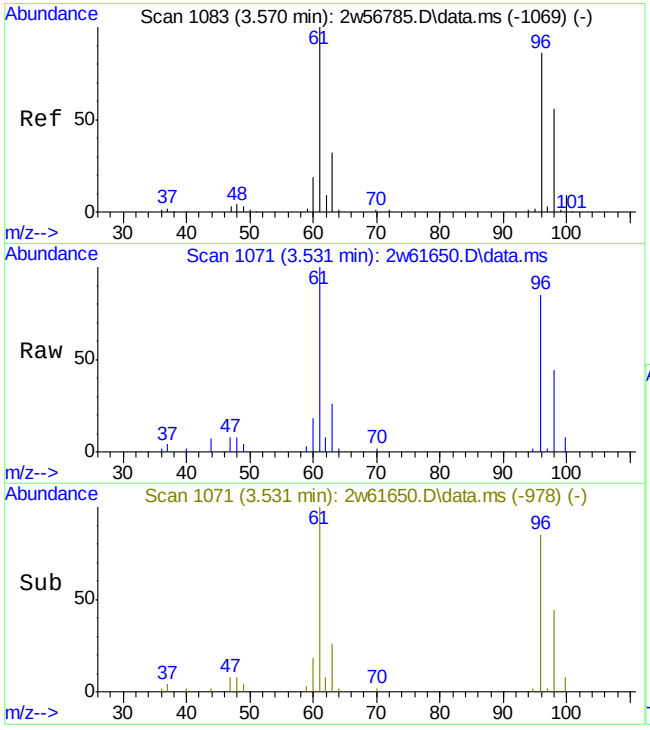



#31
METHYLENE CHLORIDE
Concen: 0.38 PPBV
RT: 2.750 min Scan# 828
Delta R.T. 0.003 min
Lab File: 2w61650.D
Acq: 28 Sep 2022 7:16 pm

Tgt Ion: 84 Resp: 5154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 59.1 | 51.3 | 76.9 |
| 49 | 143.0 | 133.3 | 199.9 |

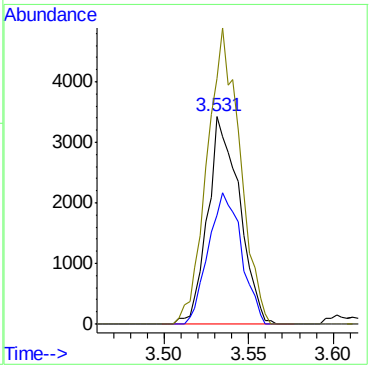



#42
CIS-1,2-DICHLOROETHENE
Concen: 0.40 PPBV
RT: 3.531 min Scan# 1071
Delta R.T. -0.000 min
Lab File: 2w61650.D
Acq: 28 Sep 2022 7:16 pm

Tgt Ion: 96 Resp: 4455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 65.9 | 51.0 | 76.6 |
| 61 | 148.1 | 109.5 | 164.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61651.D
Acq On : 28 Sep 2022 7:49 pm
Operator : thomash
Sample : jd52620-2
Misc : MS62557,V2w2735,100,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 30 17:10:53 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

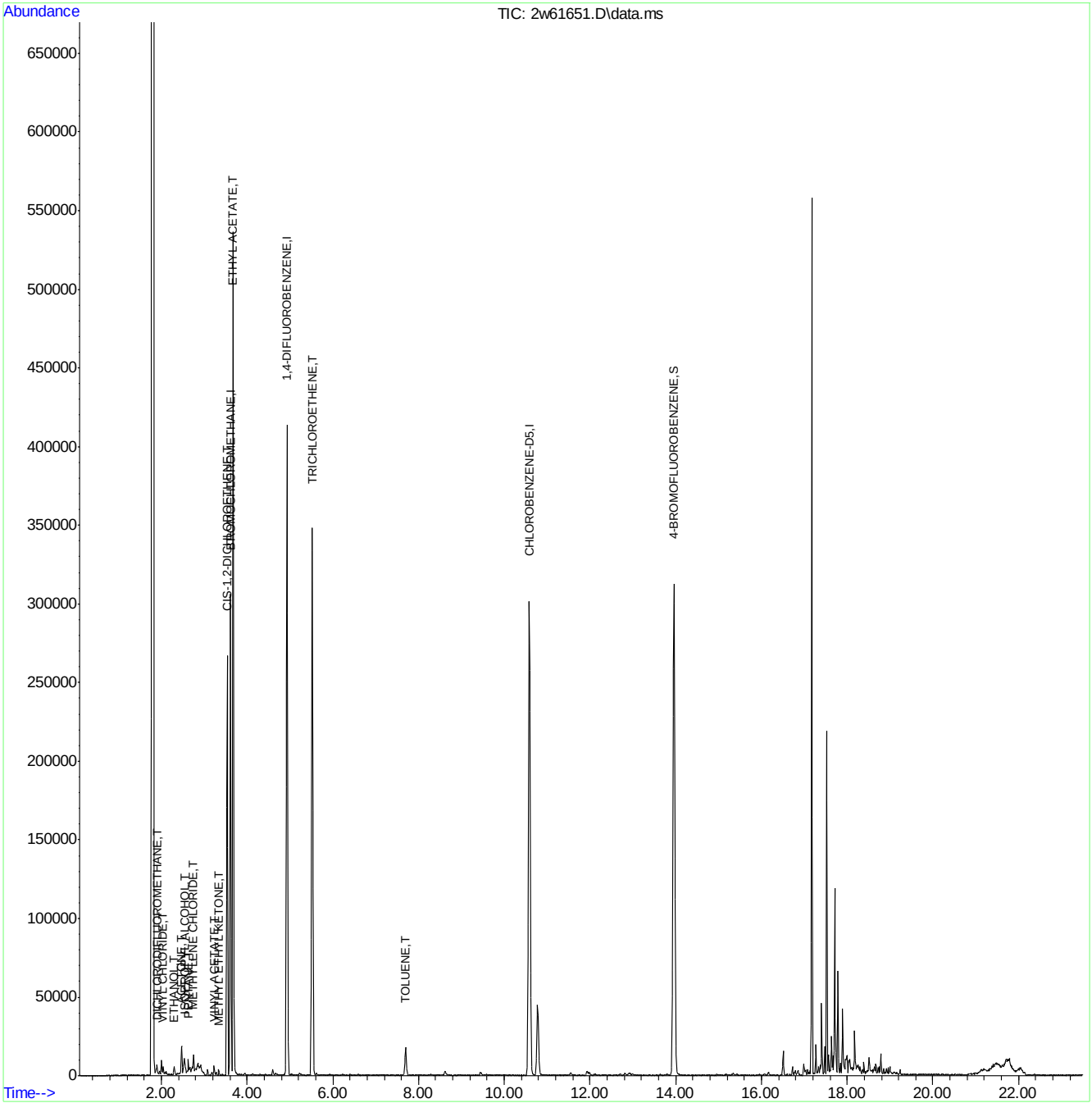
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.612 | 128 | 61947 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 323041 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 265444 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.959 | 95 | 189786 | 10.74 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 6) DICHLORODIFLUOROMETHANE | 1.901 | 85 | 3278 | 0.11 | PPBV | # | 83 |
| 11) VINYL CHLORIDE | 2.039 | 62 | 3612 | 0.34 | PPBV | # | 95 |
| 22) ISOPROPYL ALCOHOL | 2.538 | 45 | 7003 | 0.27 | PPBV | # | 85 |
| 23) ACETONE | 2.464 | 58 | 5277 | 0.65 | PPBV | # | 69 |
| 24) PENTANE | 2.625 | 42 | 1843 | 0.13 | PPBV | # | 84 |
| 28) ETHANOL | 2.297 | 45 | 4295 | 0.85 | PPBV | # | 92 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 2682 | 0.20 | PPBV | | 86 |
| 39) VINYL ACETATE | 3.229 | 86 | 615 | 0.24 | PPBV | # | 85 |
| 41) METHYL ETHYL KETONE | 3.332 | 72 | 1006 | 0.22 | PPBV | # | 86 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 81402 | 7.40 | PPBV | | 95 |
| 44) ETHYL ACETATE | 3.673 | 61 | 82865 | 22.59 | PPBV | # | 1 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 120969 | 8.84 | PPBV | | 95 |
| 66) TOLUENE | 7.702 | 91 | 17472 | 0.45 | PPBV | | 97 |

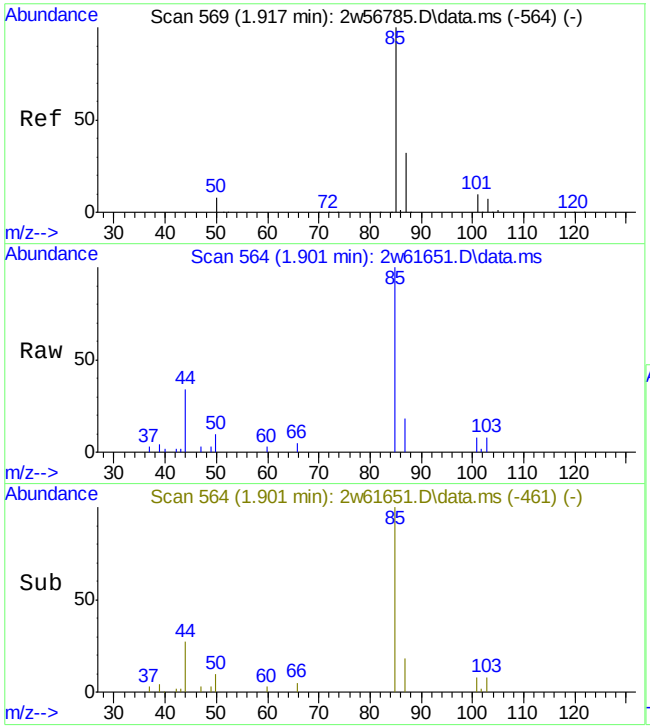
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61651.D
Acq On : 28 Sep 2022 7:49 pm
Operator : thomash
Sample : jd52620-2
Misc : MS62557,V2w2735,100,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 30 17:10:53 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

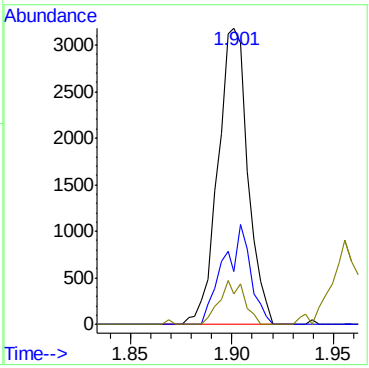


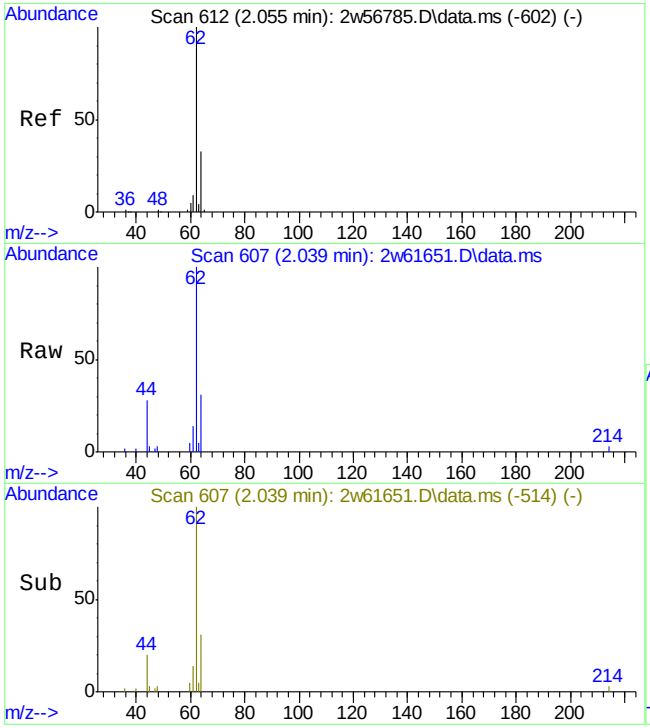



#6
DICHLORODIFLUOROMETHANE
Concen: 0.11 PPBV
RT: 1.901 min Scan# 564
Delta R.T. -0.000 min
Lab File: 2w61651.D
Acq: 28 Sep 2022 7:49 pm

Tgt Ion: 85 Resp: 3278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 30.3 | 25.9 | 38.9 |
| 50 | 0.0 | 14.6 | 21.8# |

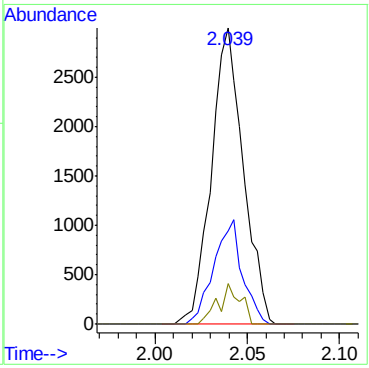


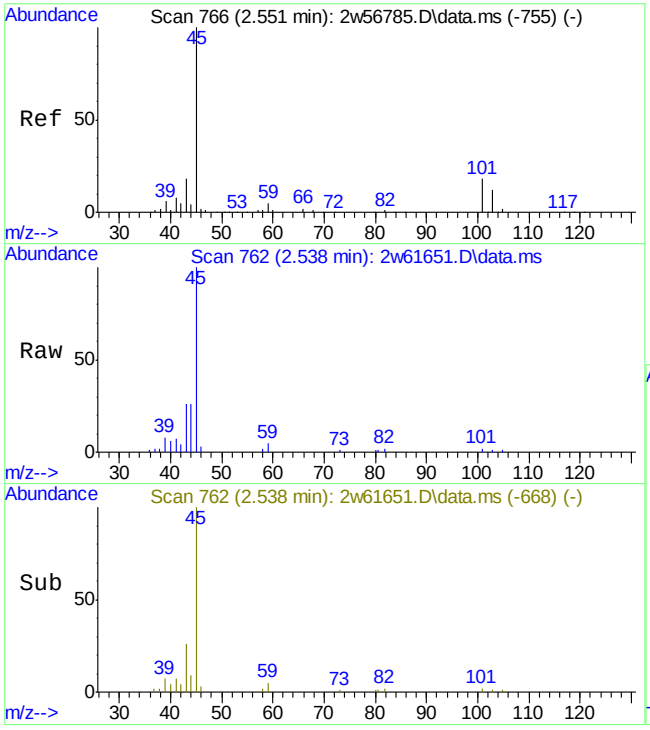




#11
VINYL CHLORIDE
Concen: 0.34 PPBV
RT: 2.039 min Scan# 607
Delta R.T. -0.000 min
Lab File: 2w61651.D
Acq: 28 Sep 2022 7:49 pm

Tgt Ion: 62 Resp: 3612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.4 | 25.2 | 37.8 |
| 61 | 0.0 | 7.0 | 10.4# |

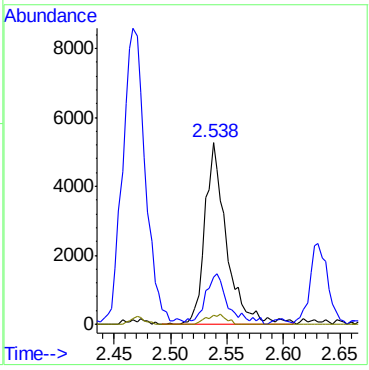


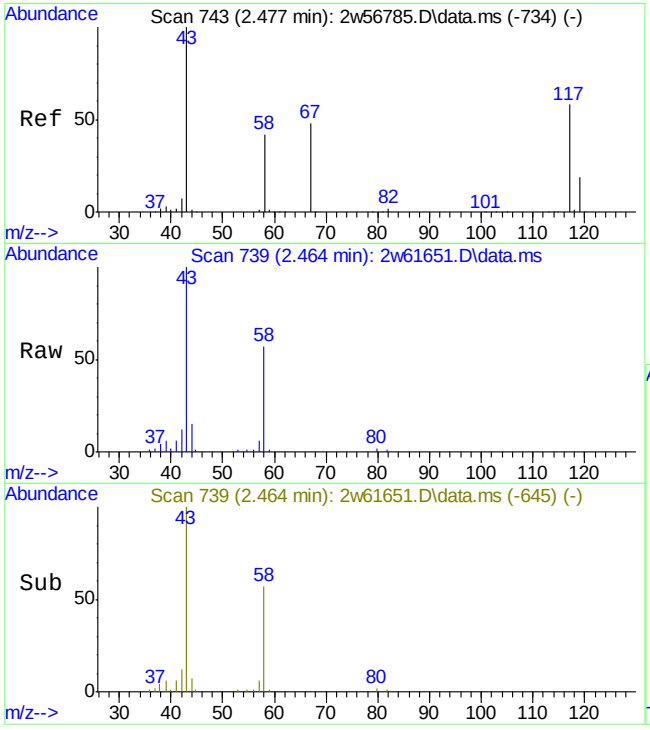



#22
ISOPROPYL ALCOHOL
Concen: 0.27 PPBV
RT: 2.538 min Scan# 762
Delta R.T. 0.003 min
Lab File: 2w61651.D
Acq: 28 Sep 2022 7:49 pm

Tgt Ion: 45 Resp: 7003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 29.5 | 17.8 | 26.6# |
| 59 | 0.0 | 3.6 | 5.4# |

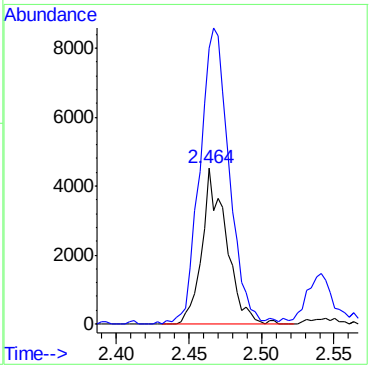


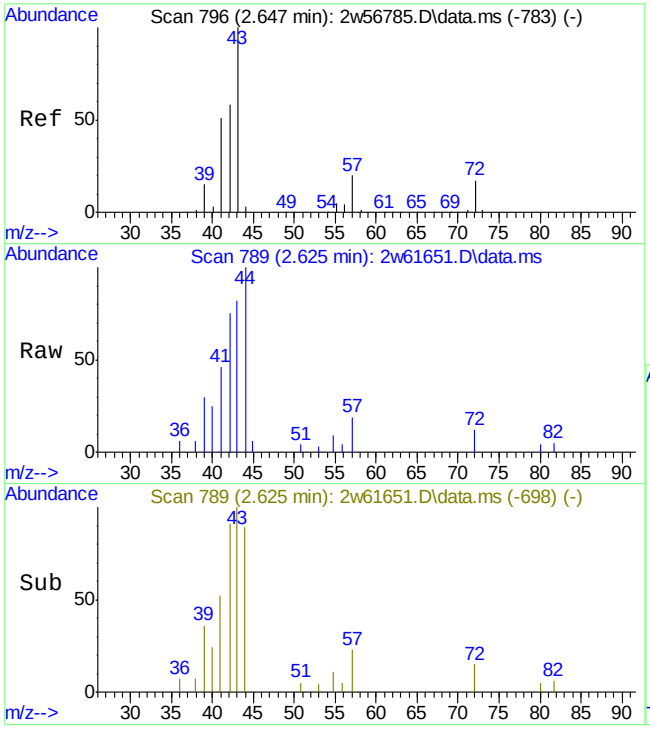




#23
ACETONE
Concen: 0.65 PPBV
RT: 2.464 min Scan# 739
Delta R.T. 0.003 min
Lab File: 2w61651.D
Acq: 28 Sep 2022 7:49 pm

Tgt Ion: 58 Resp: 5277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 228.6 | 229.9 | 344.9# |

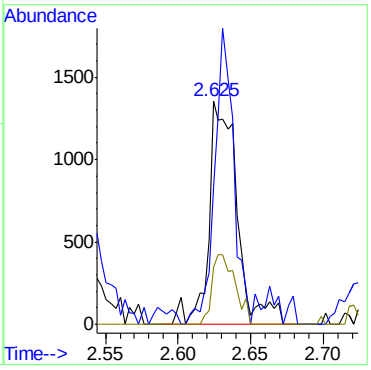


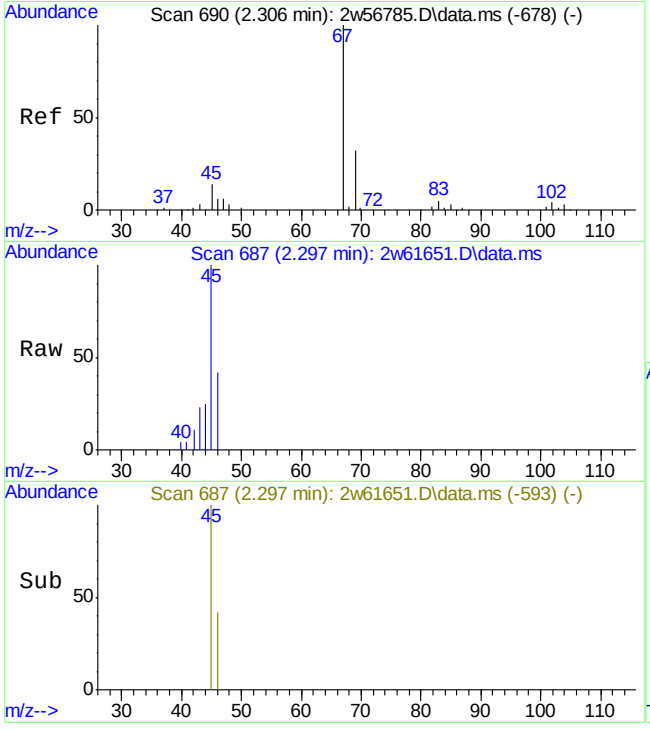



#24
PENTANE
Concen: 0.13 PPBV
RT: 2.625 min Scan# 789
Delta R.T. -0.007 min
Lab File: 2w61651.D
Acq: 28 Sep 2022 7:49 pm

Tgt Ion: 42 Resp: 1843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 41 | 97.4 | 75.7 | 113.5 |
| 57 | 0.0 | 25.0 | 37.6# |

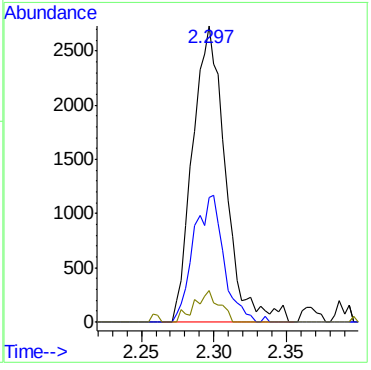


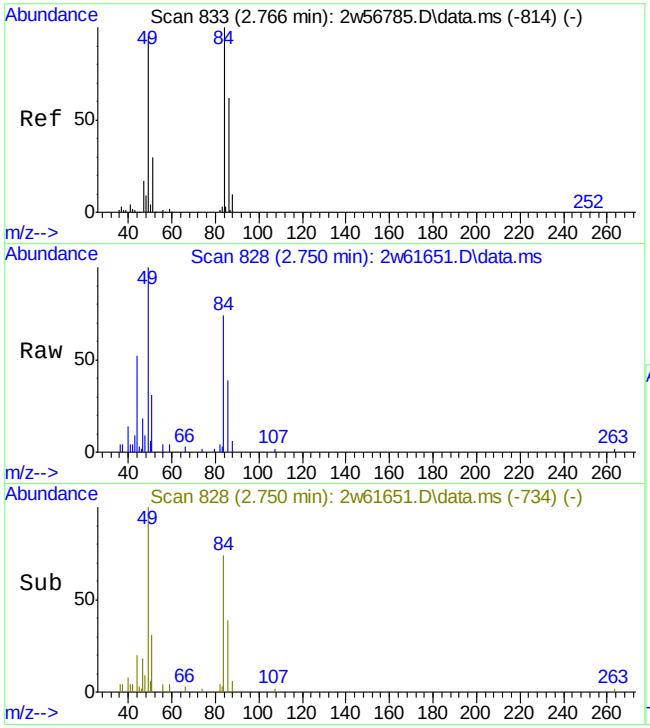




#28
ETHANOL
Concen: 0.85 PPBV
RT: 2.297 min Scan# 687
Delta R.T. 0.003 min
Lab File: 2w61651.D
Acq: 28 Sep 2022 7:49 pm

Tgt Ion: 45 Resp: 4295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 39.5 | 33.4 | 50.2 |
| 42 | 0.0 | 7.4 | 11.2# |

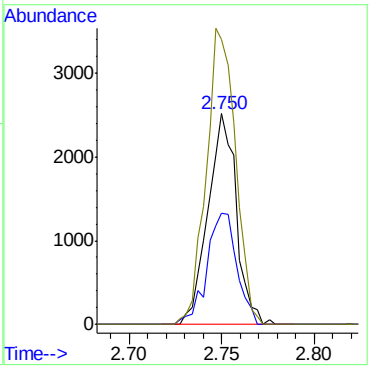


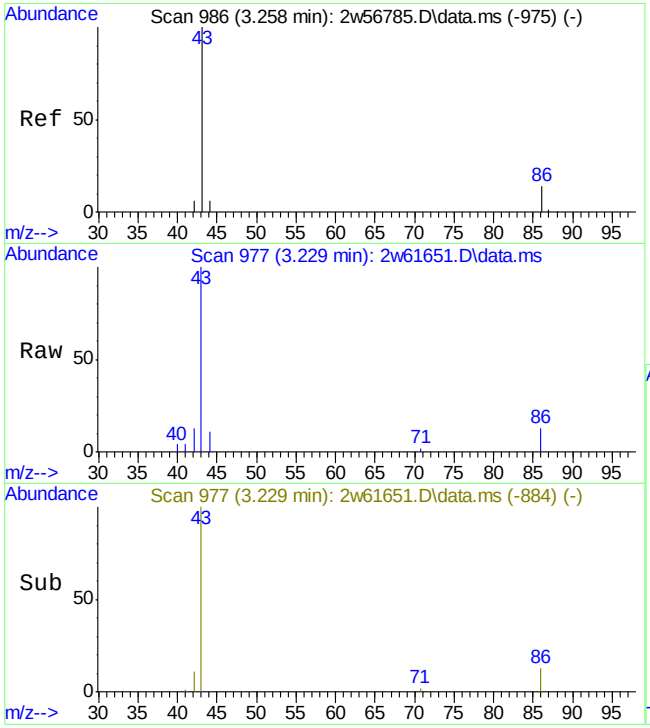



#31
METHYLENE CHLORIDE
Concen: 0.20 PPBV
RT: 2.750 min Scan# 828
Delta R.T. 0.003 min
Lab File: 2w61651.D
Acq: 28 Sep 2022 7:49 pm

Tgt Ion: 84 Resp: 2682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 55.8 | 51.3 | 76.9 |
| 49 | 145.3 | 133.3 | 199.9 |

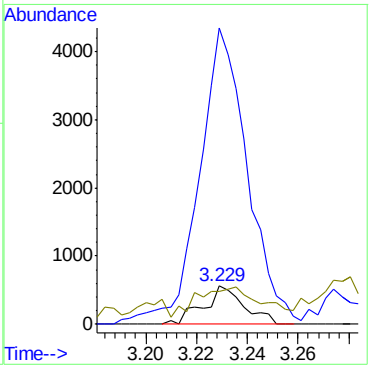


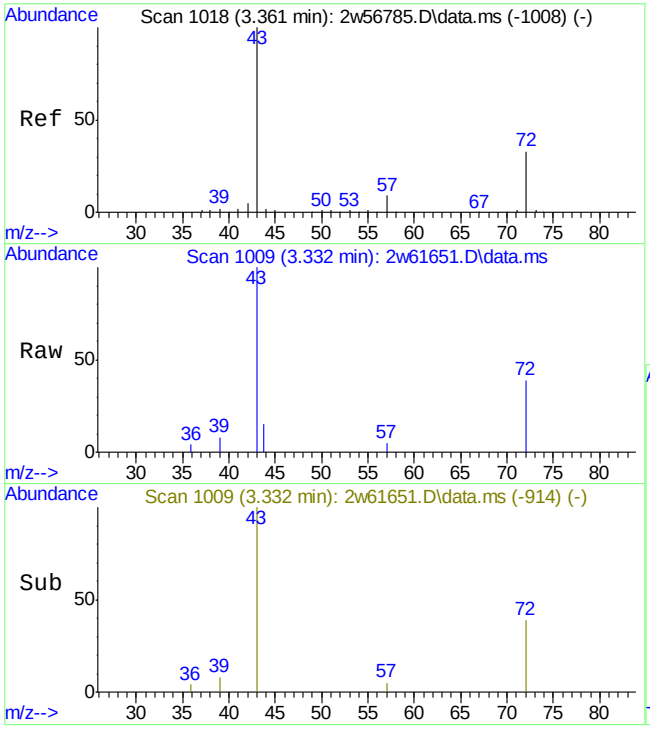




#39
VINYL ACETATE
Concen: 0.24 PPBV
RT: 3.229 min Scan# 977
Delta R.T. -0.000 min
Lab File: 2w61651.D
Acq: 28 Sep 2022 7:49 pm

Tgt Ion: 86 Resp: 615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 86 | 100 | | |
| 43 | 928.3 | 766.9 | 1150.3 |
| 44 | 163.7 | 41.8 | 62.6# |

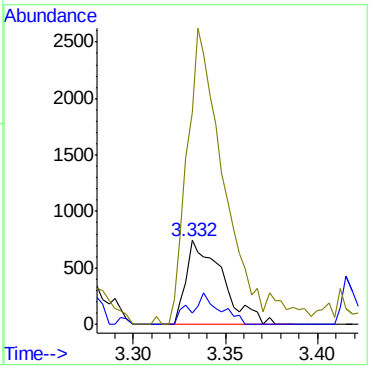


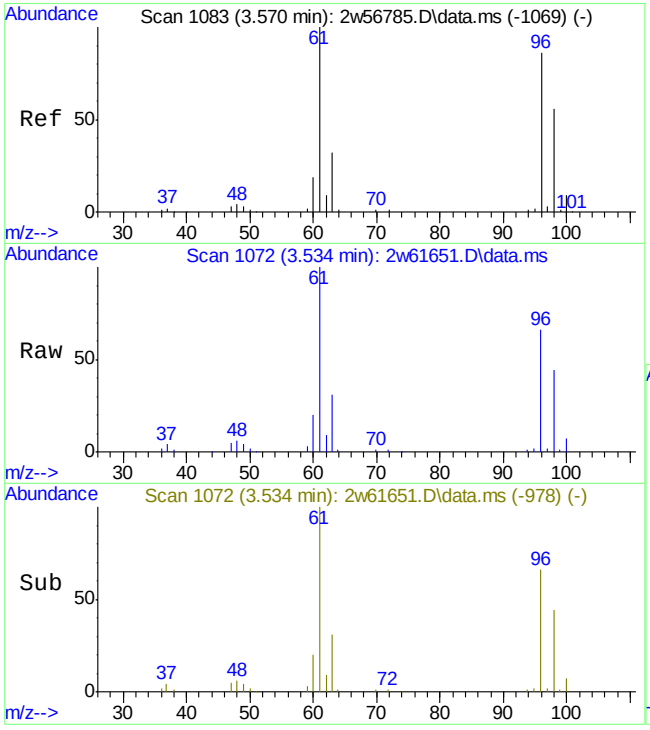



#41
METHYL ETHYL KETONE
Concen: 0.22 PPBV
RT: 3.332 min Scan# 1009
Delta R.T. 0.006 min
Lab File: 2w61651.D
Acq: 28 Sep 2022 7:49 pm

Tgt Ion: 72 Resp: 1006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 72 | 100 | | |
| 57 | 0.0 | 29.1 | 43.7# |
| 43 | 378.1 | 321.0 | 481.4 |

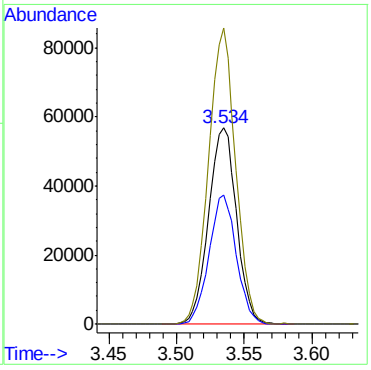


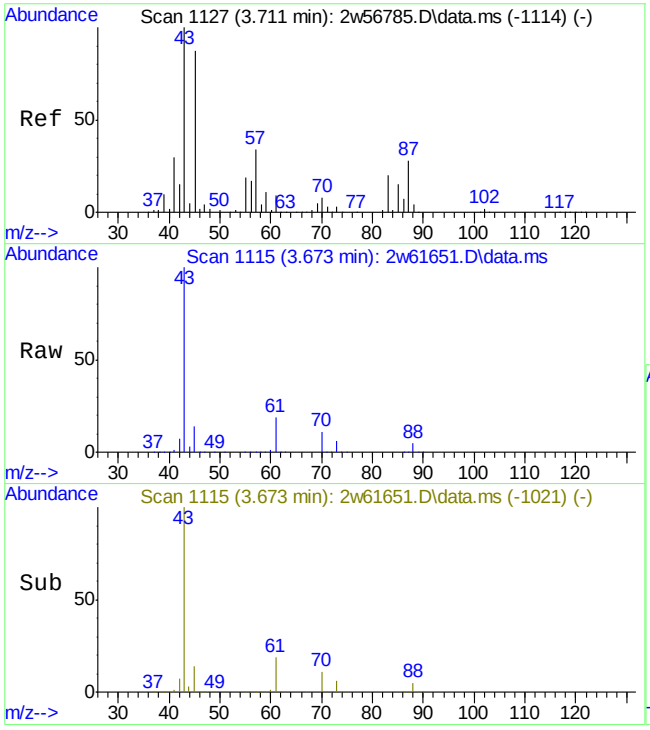




#42
CIS-1,2-DICHLOROETHENE
Concen: 7.40 PPBV
RT: 3.534 min Scan# 1072
Delta R.T. 0.003 min
Lab File: 2w61651.D
Acq: 28 Sep 2022 7:49 pm

Tgt Ion: 96 Resp: 81402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 64.2 | 51.0 | 76.6 |
| 61 | 146.3 | 109.5 | 164.3 |

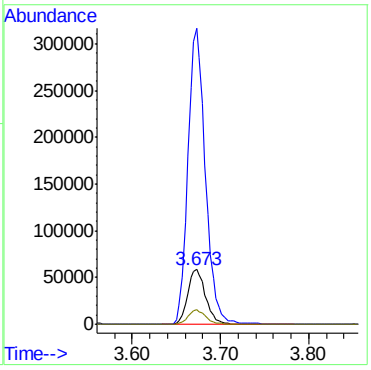


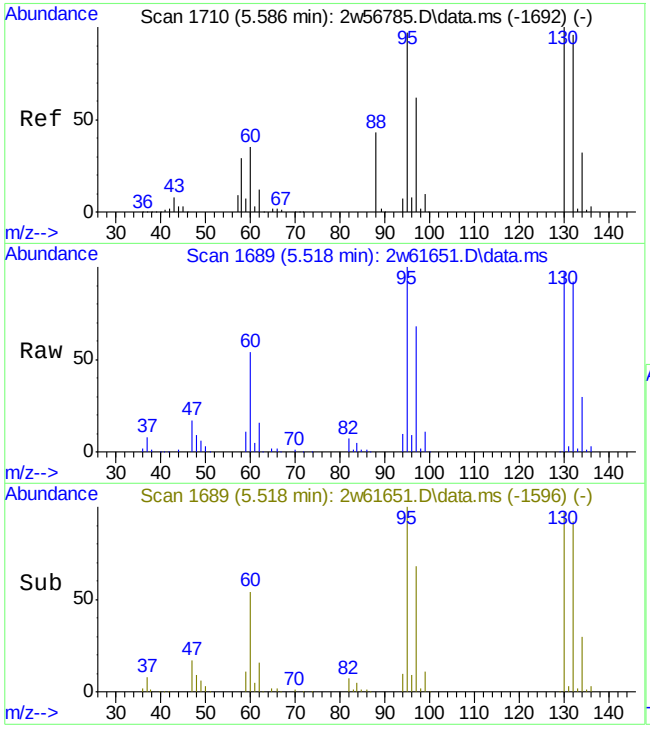



#44
ETHYL ACETATE
Concen: 22.59 PPBV
RT: 3.673 min Scan# 1115
Delta R.T. 0.003 min
Lab File: 2w61651.D
Acq: 28 Sep 2022 7:49 pm

Tgt Ion: 61 Resp: 82865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 527.2 | 1054.2 | 1581.2# |
| 88 | 26.2 | 34.4 | 51.6# |

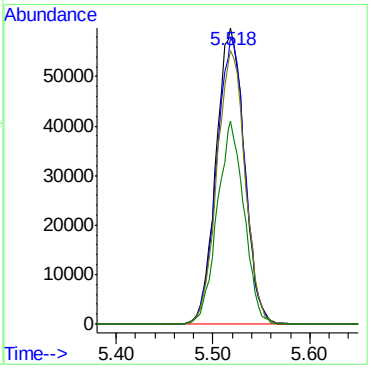


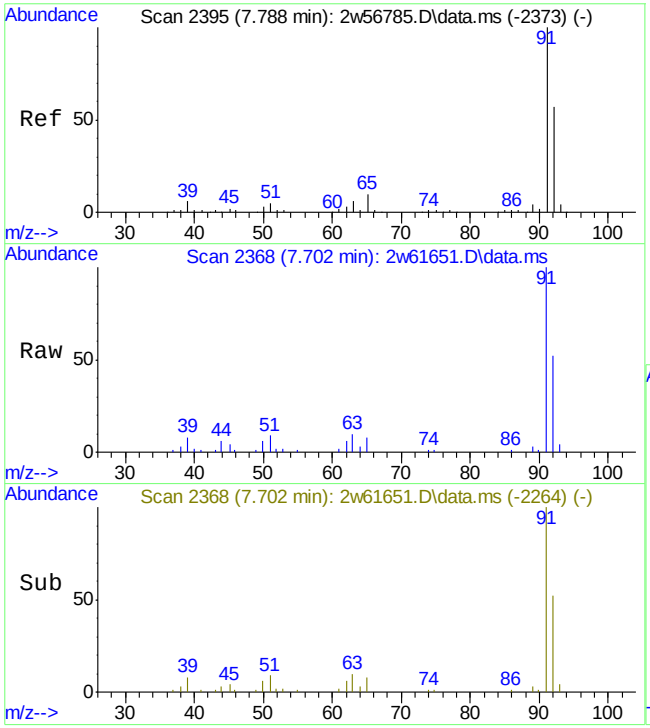




#55
TRICHLOROETHENE
Concen: 8.84 PPBV
RT: 5.518 min Scan# 1689
Delta R.T. -0.000 min
Lab File: 2w61651.D
Acq: 28 Sep 2022 7:49 pm

Tgt Ion: 95 Resp: 120969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 97.1 | 82.8 | 124.2 |
| 132 | 92.3 | 79.3 | 118.9 |
| 97 | 65.3 | 52.0 | 78.0 |

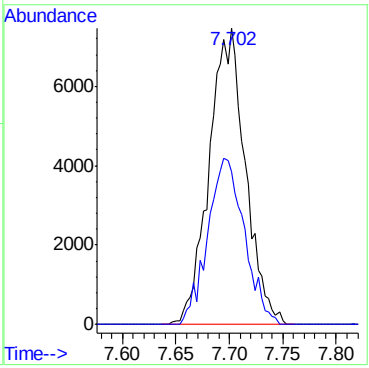





#66
TOLUENE
Concen: 0.45 PPBV
RT: 7.702 min Scan# 2368
Delta R.T. 0.003 min
Lab File: 2w61651.D
Acq: 28 Sep 2022 7:49 pm

Tgt Ion: 91 Resp: 17472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 56.8 | 39.3 | 79.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61659.D
Acq On : 29 Sep 2022 1:15 pm
Operator : thomash
Sample : jd52620-3
Misc : MS62557,V2w2736,20,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 03 09:10:25 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

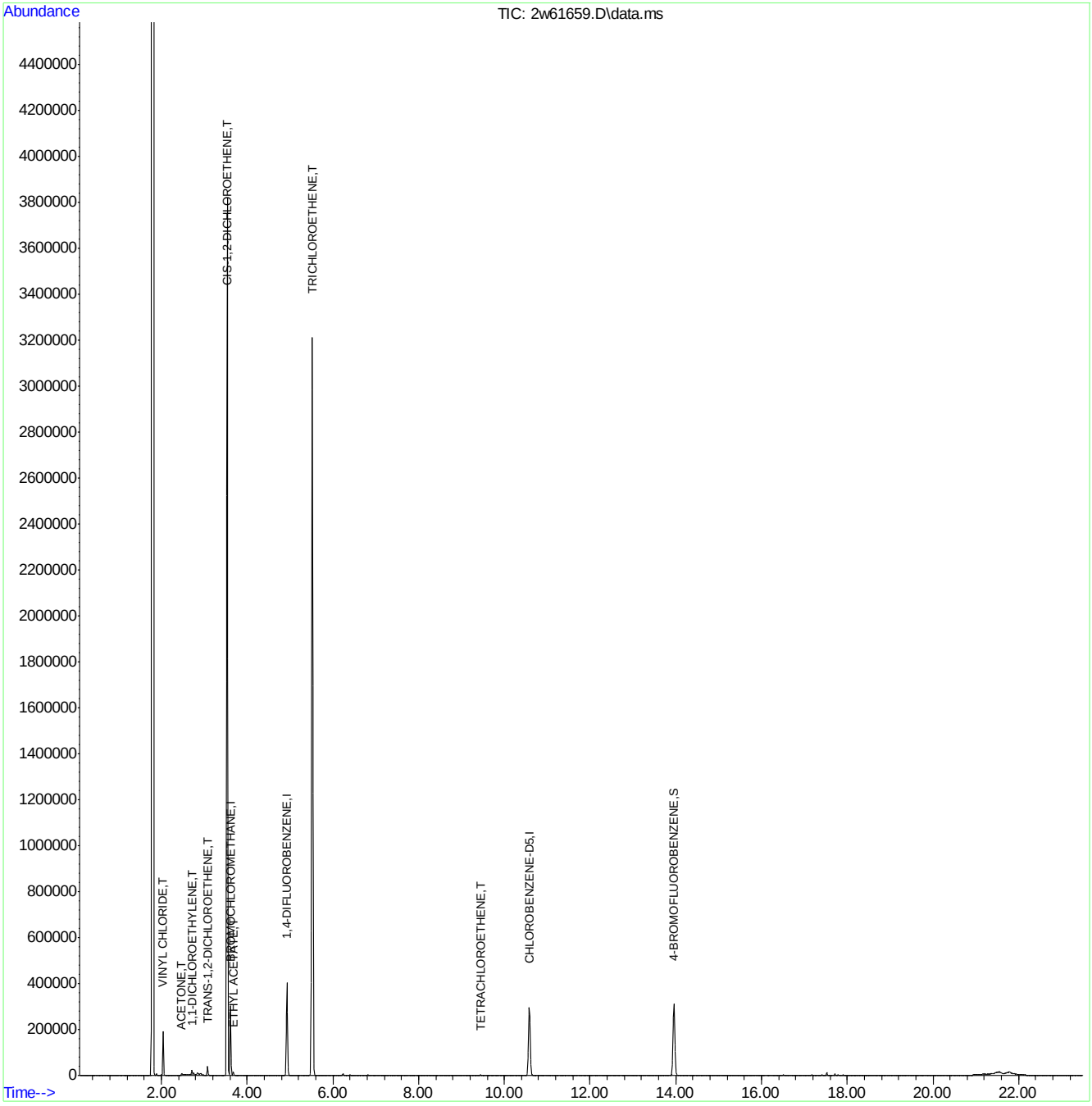
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.611 | 128 | 60403 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.926 | 114 | 314817 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 265639 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.961 | 95 | 185603 | 10.49 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 11) VINYL CHLORIDE | 2.039 | 62 | 146485 | 13.93 | PPBV | 99 |
| 23) ACETONE | 2.470 | 58 | 1596 | 0.20 | PPBV | 70 |
| 26) 1,1-DICHLOROETHYLENE | 2.718 | 96 | 4247 | 0.35 | PPBV | 93 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.074 | 96 | 9016 | 0.90 | PPBV | 94 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 1141686 | 106.41 | PPBV | 96 |
| 44) ETHYL ACETATE | 3.679 | 61 | 3050 | 0.85 | PPBV # | 1 |
| 55) TRICHLOROETHENE | 5.521 | 95 | 1102594 | 82.63 | PPBV | 95 |
| 72) TETRACHLOROETHENE | 9.444 | 164 | 554 | 0.04 | PPBV # | 8 |

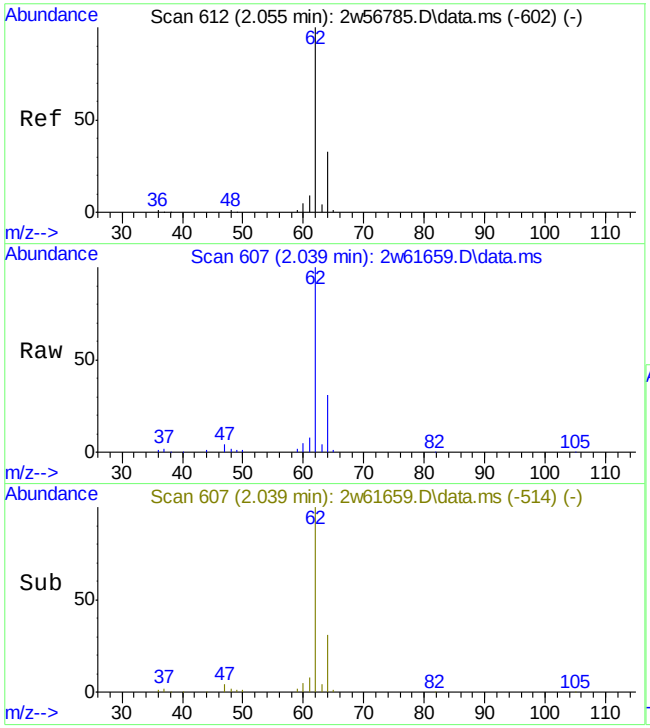
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61659.D
Acq On : 29 Sep 2022 1:15 pm
Operator : thomash
Sample : jd52620-3
Misc : MS62557,V2w2736,20,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 03 09:10:25 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

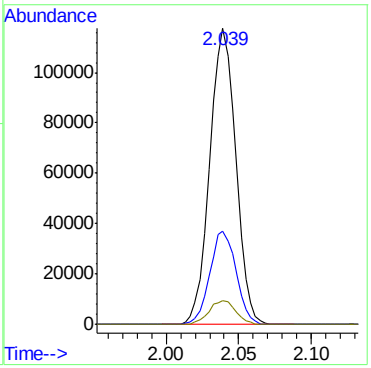


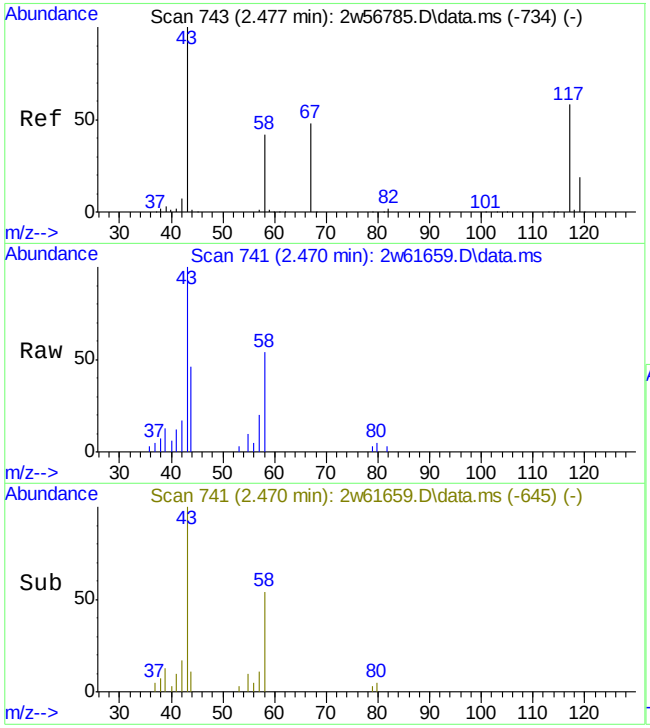



#11
VINYL CHLORIDE
Concen: 13.93 PPBV
RT: 2.039 min Scan# 607
Delta R.T. -0.000 min
Lab File: 2w61659.D
Acq: 29 Sep 2022 1:15 pm

Tgt Ion: 62 Resp: 146485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.7 | 25.2 | 37.8 |
| 61 | 8.3 | 7.0 | 10.4 |

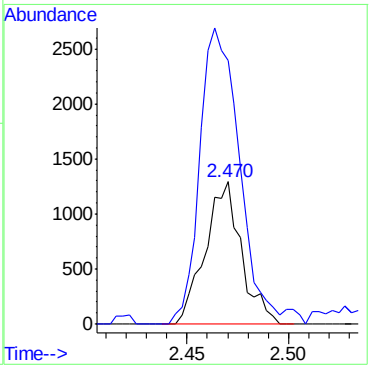


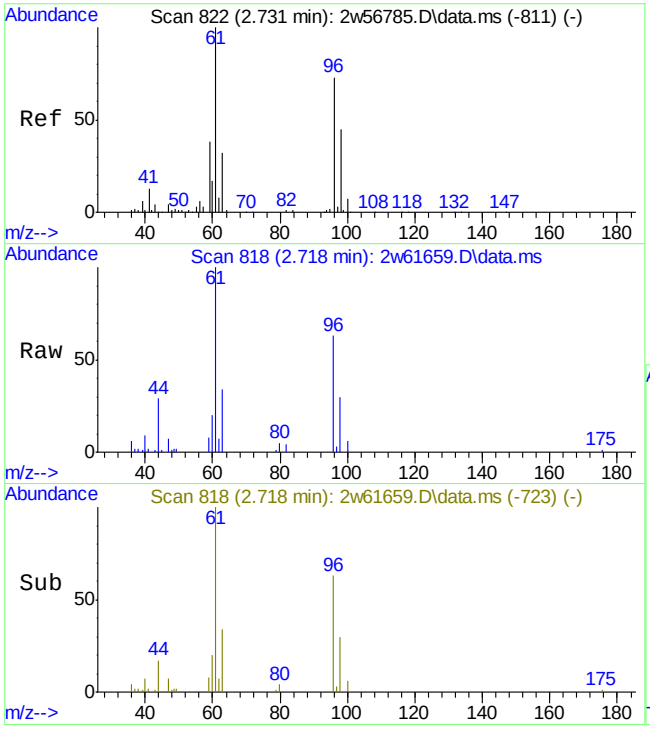




#23
ACETONE
Concen: 0.20 PPBV
RT: 2.470 min Scan# 741
Delta R.T. 0.009 min
Lab File: 2w61659.D
Acq: 29 Sep 2022 1:15 pm

Tgt Ion: 58 Resp: 1596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 230.6 | 229.9 | 344.9 |

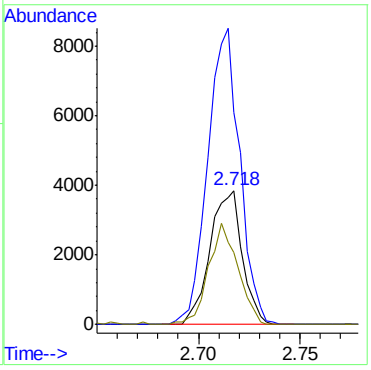


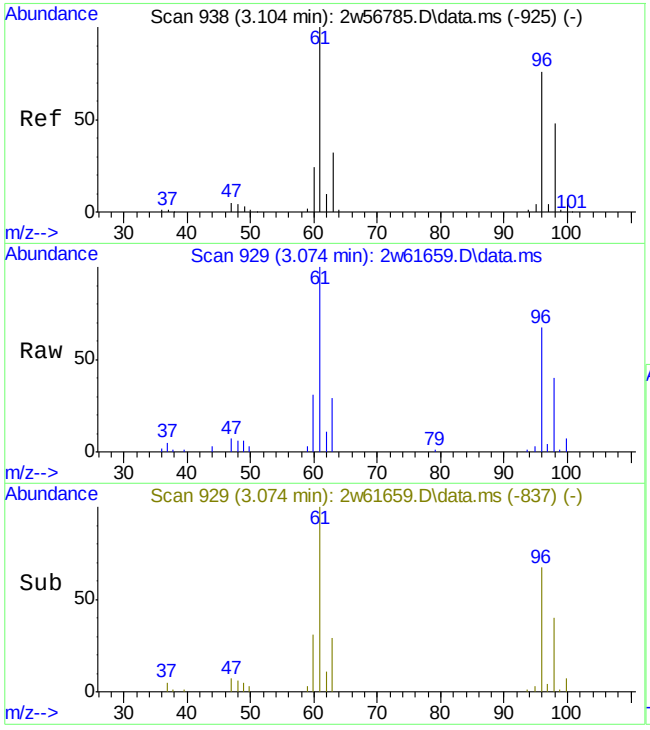



#26
1,1-DICHLOROETHYLENE
Concen: 0.35 PPBV
RT: 2.718 min Scan# 818
Delta R.T. 0.006 min
Lab File: 2w61659.D
Acq: 29 Sep 2022 1:15 pm

Tgt Ion: 96 Resp: 4247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 219.7 | 166.0 | 249.0 |
| 63 | 68.7 | 52.0 | 78.0 |

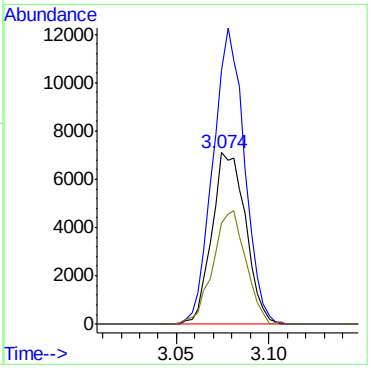


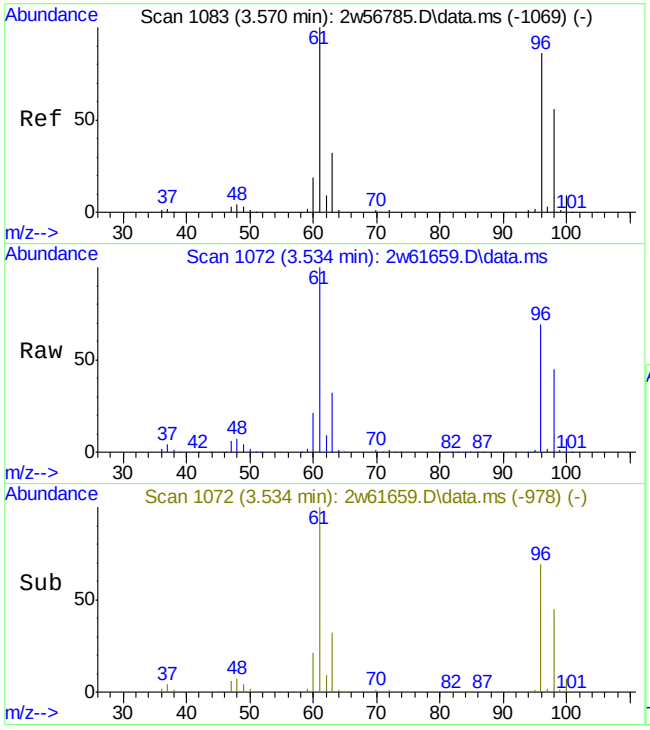




#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.90 PPBV
RT: 3.074 min Scan# 929
Delta R.T. -0.004 min
Lab File: 2w61659.D
Acq: 29 Sep 2022 1:15 pm

Tgt Ion: 96 Resp: 9016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 162.0 | 121.8 | 182.8 |
| 98 | 64.8 | 51.4 | 77.0 |

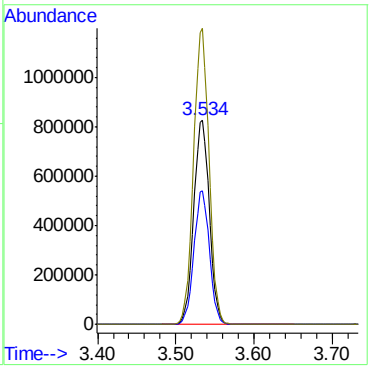


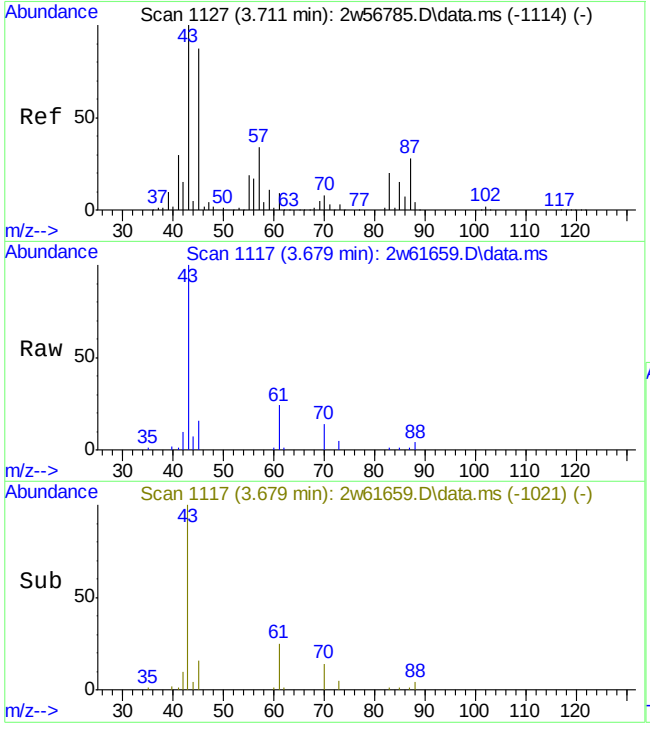



#42
CIS-1,2-DICHLOROETHENE
Concen: 106.41 PPBV
RT: 3.534 min Scan# 1072
Delta R.T. 0.003 min
Lab File: 2w61659.D
Acq: 29 Sep 2022 1:15 pm

Tgt Ion: 96 Resp: 1141686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 64.6 | 51.0 | 76.6 |
| 61 | 143.9 | 109.5 | 164.3 |

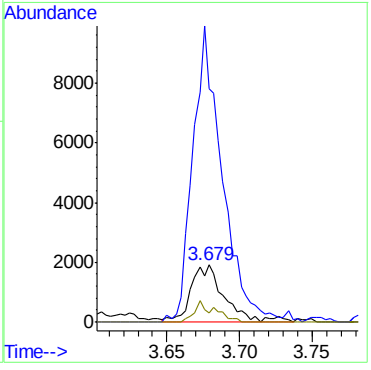


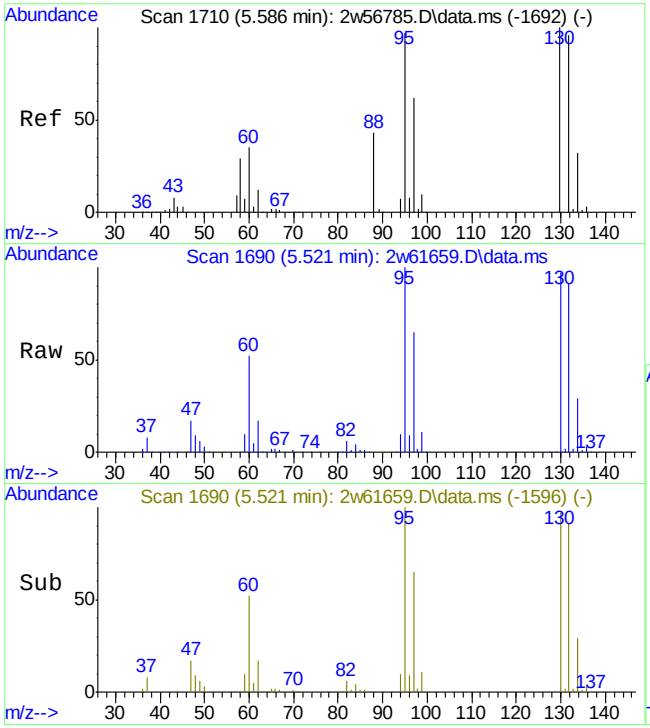




#44
ETHYL ACETATE
Concen: 0.85 PPBV
RT: 3.679 min Scan# 1117
Delta R.T. 0.009 min
Lab File: 2w61659.D
Acq: 29 Sep 2022 1:15 pm

Tgt Ion: 61 Resp: 3050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 461.0 | 1054.2 | 1581.2# |
| 88 | 22.8 | 34.4 | 51.6# |

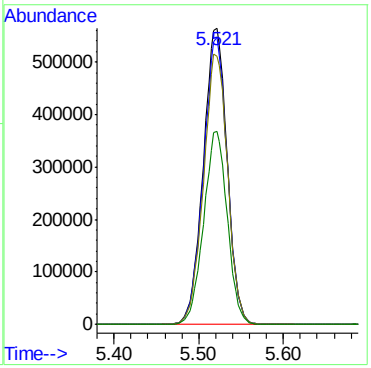


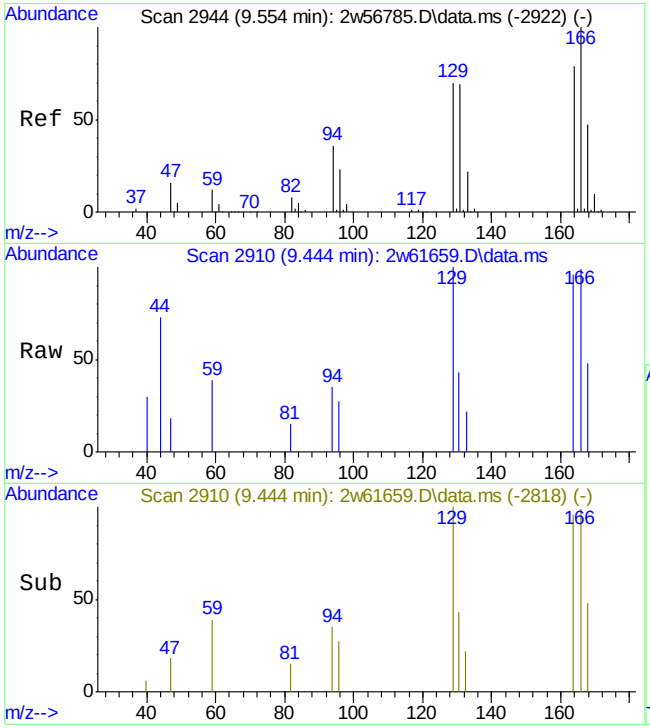



#55
TRICHLOROETHENE
Concen: 82.63 PPBV
RT: 5.521 min Scan# 1690
Delta R.T. 0.003 min
Lab File: 2w61659.D
Acq: 29 Sep 2022 1:15 pm

Tgt Ion: 95 Resp: 1102594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 96.4 | 82.8 | 124.2 |
| 132 | 92.0 | 79.3 | 118.9 |
| 97 | 64.5 | 52.0 | 78.0 |

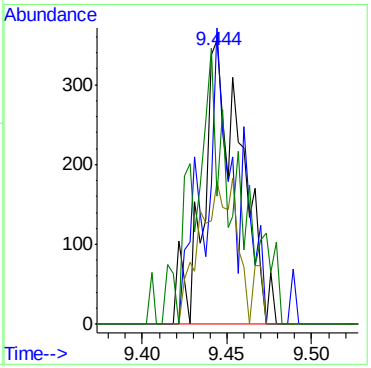



#72
TETRACHLOROETHENE
Concen: 0.04 PPBV
RT: 9.444 min Scan# 2910
Delta R.T. -0.004 min
Lab File: 2w61659.D
Acq: 29 Sep 2022 1:15 pm

Tgt Ion:164 Resp: 554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 129 | 0.0 | 73.6 | 110.4# |
| 168 | 0.0 | 48.6 | 72.8# |
| 131 | 0.0 | 71.4 | 107.2# |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26152.D
Acq On : 30 Sep 2022 1:51 am
Operator : thomash
Sample : jd52620-3
Misc : MS62557,V6W1111,5,,,,1.30
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 03 14:00:09 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

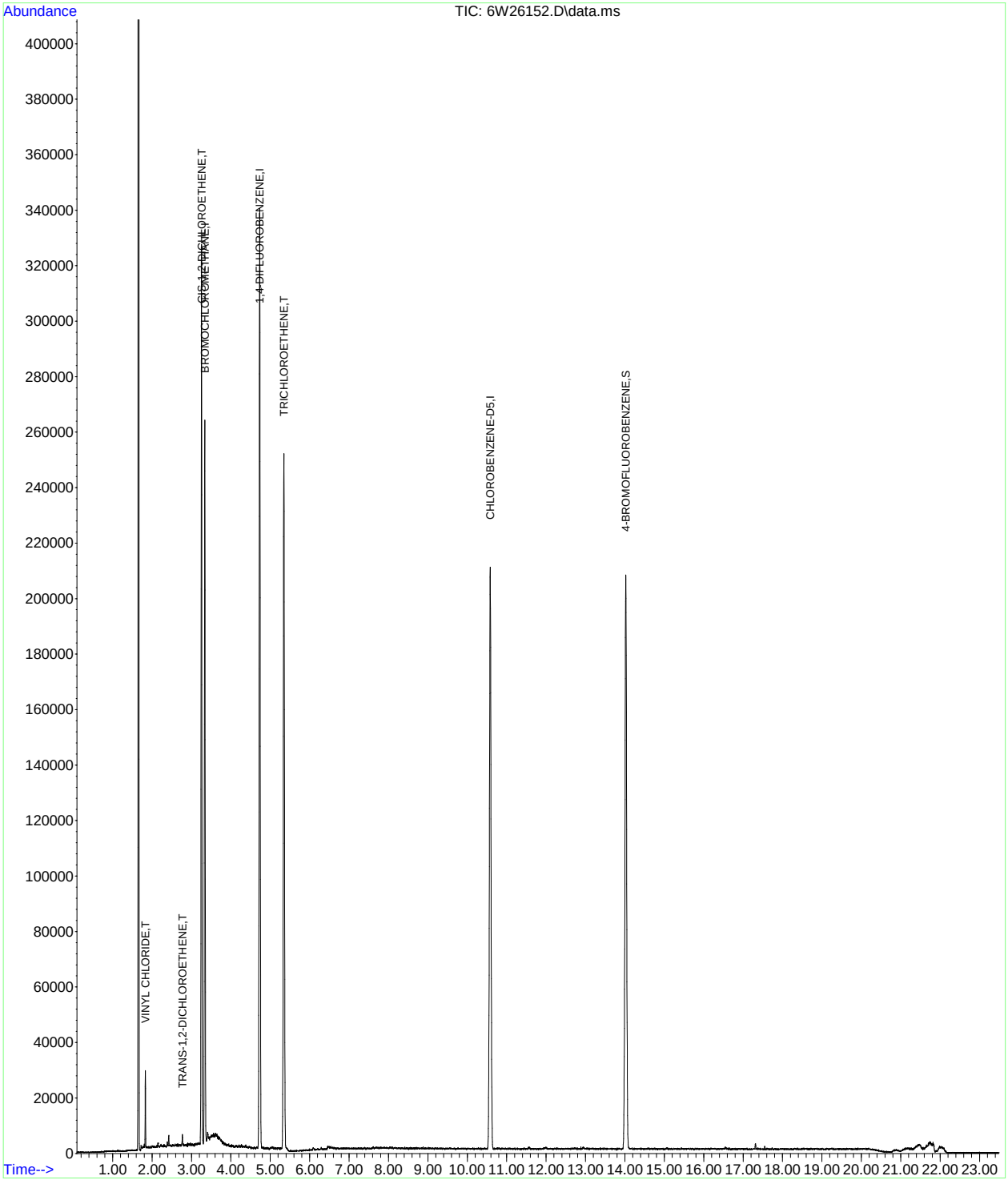
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 40450 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.731 | 114 | 228036 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.583 | 117 | 169706 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.020 | 95 | 118459 | 9.55 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 11) VINYL CHLORIDE | 1.830 | 62 | 11905 | 1.53 | PPBV | 98 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.773 | 96 | 875 | 0.13 | PPBV # | 48 |
| 42) CIS-1,2-DICHLOROETHENE | 3.255 | 96 | 92483 | 12.60 | PPBV # | 79 |
| 55) TRICHLOROETHENE | 5.348 | 95 | 90744 | 9.54 | PPBV | 85 |

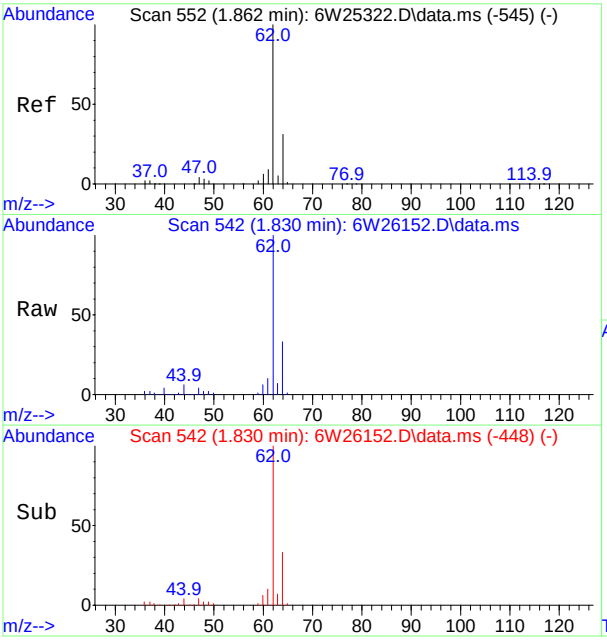
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26152.D
Acq On : 30 Sep 2022 1:51 am
Operator : thomash
Sample : jd52620-3
Misc : MS62557,V6W1111,5,,,,1.30
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 03 14:00:09 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

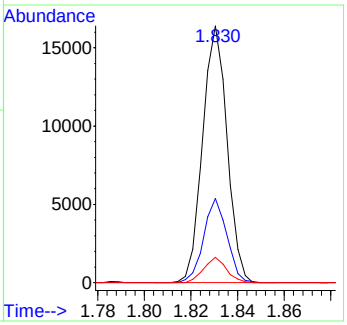


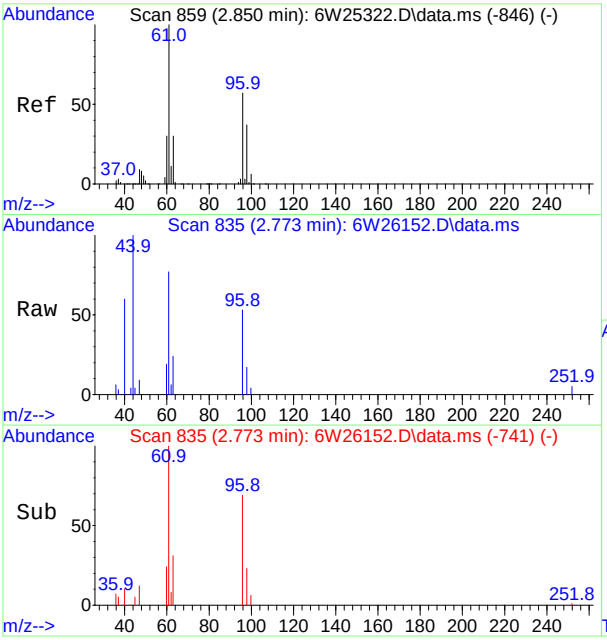



#11
VINYL CHLORIDE
Concen: 1.53 PPBV
RT: 1.830 min Scan# 542
Delta R.T. 0.004 min
Lab File: 6W26152.D
Acq: 30 Sep 2022 1:51 am

Tgt Ion: 62 Resp: 11905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.3 | 25.7 | 38.5 |
| 61 | 9.1 | 6.7 | 10.1 |

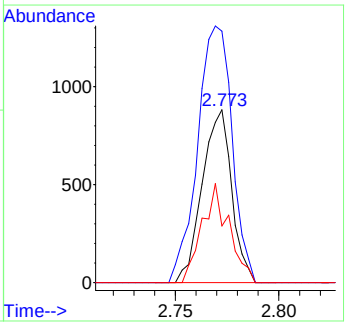


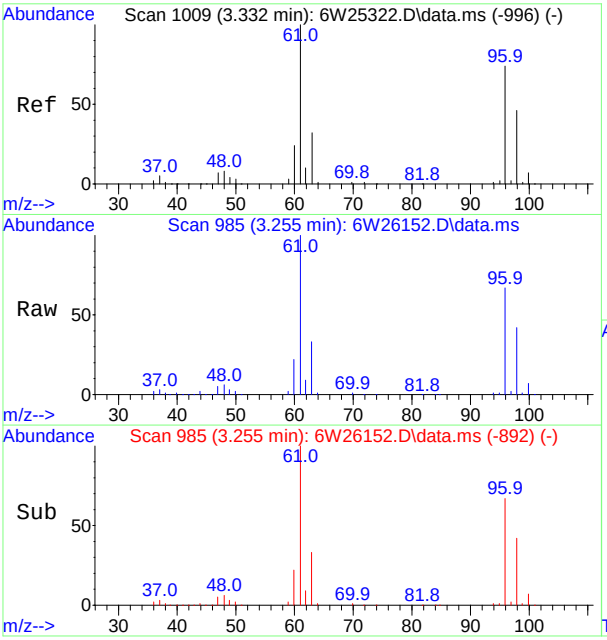




#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.13 PPBV
RT: 2.773 min Scan# 835
Delta R.T. 0.004 min
Lab File: 6W26152.D
Acq: 30 Sep 2022 1:51 am

Tgt Ion: 96 Resp: 875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 173.8 | 104.3 | 156.5# |
| 98 | 0.0 | 50.6 | 76.0# |

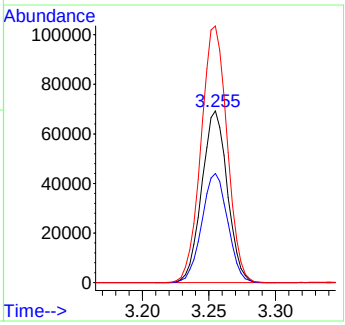


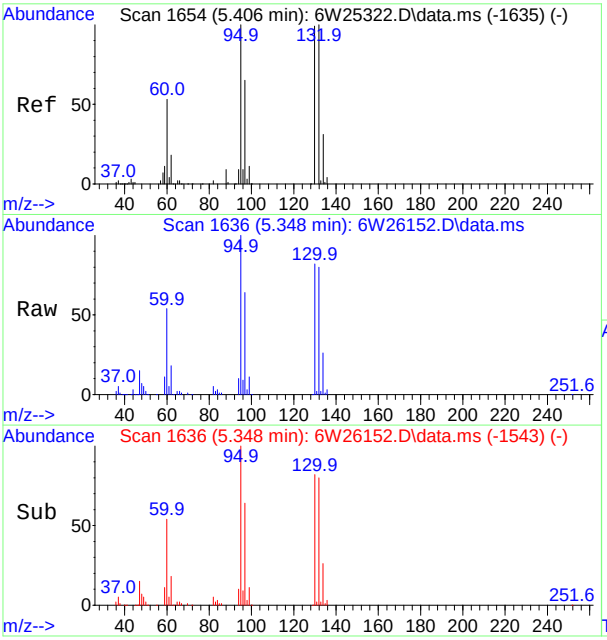



#42
CIS-1,2-DICHLOROETHENE
Concen: 12.60 PPBV
RT: 3.255 min Scan# 985
Delta R.T. 0.000 min
Lab File: 6W26152.D
Acq: 30 Sep 2022 1:51 am

Tgt Ion: 96 Resp: 92483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 64.4 | 51.1 | 76.7 |
| 61 | 152.1 | 93.9 | 140.9# |

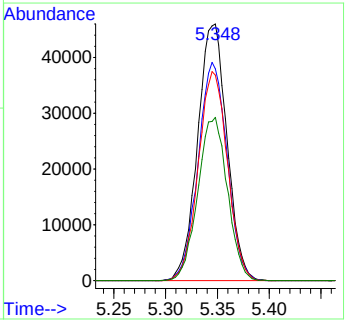



#55
TRICHLOROETHENE
Concen: 9.54 PPBV
RT: 5.348 min Scan# 1636
Delta R.T. 0.000 min
Lab File: 6W26152.D
Acq: 30 Sep 2022 1:51 am

Tgt Ion: 95 Resp: 90744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 84.2 | 83.2 | 124.8 |
| 132 | 80.7 | 79.8 | 119.6 |
| 97 | 64.0 | 51.3 | 76.9 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61660.D
Acq On : 29 Sep 2022 1:47 pm
Operator : thomash
Sample : jd52620-4
Misc : MS62557,V2w2736,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 03 09:12:01 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

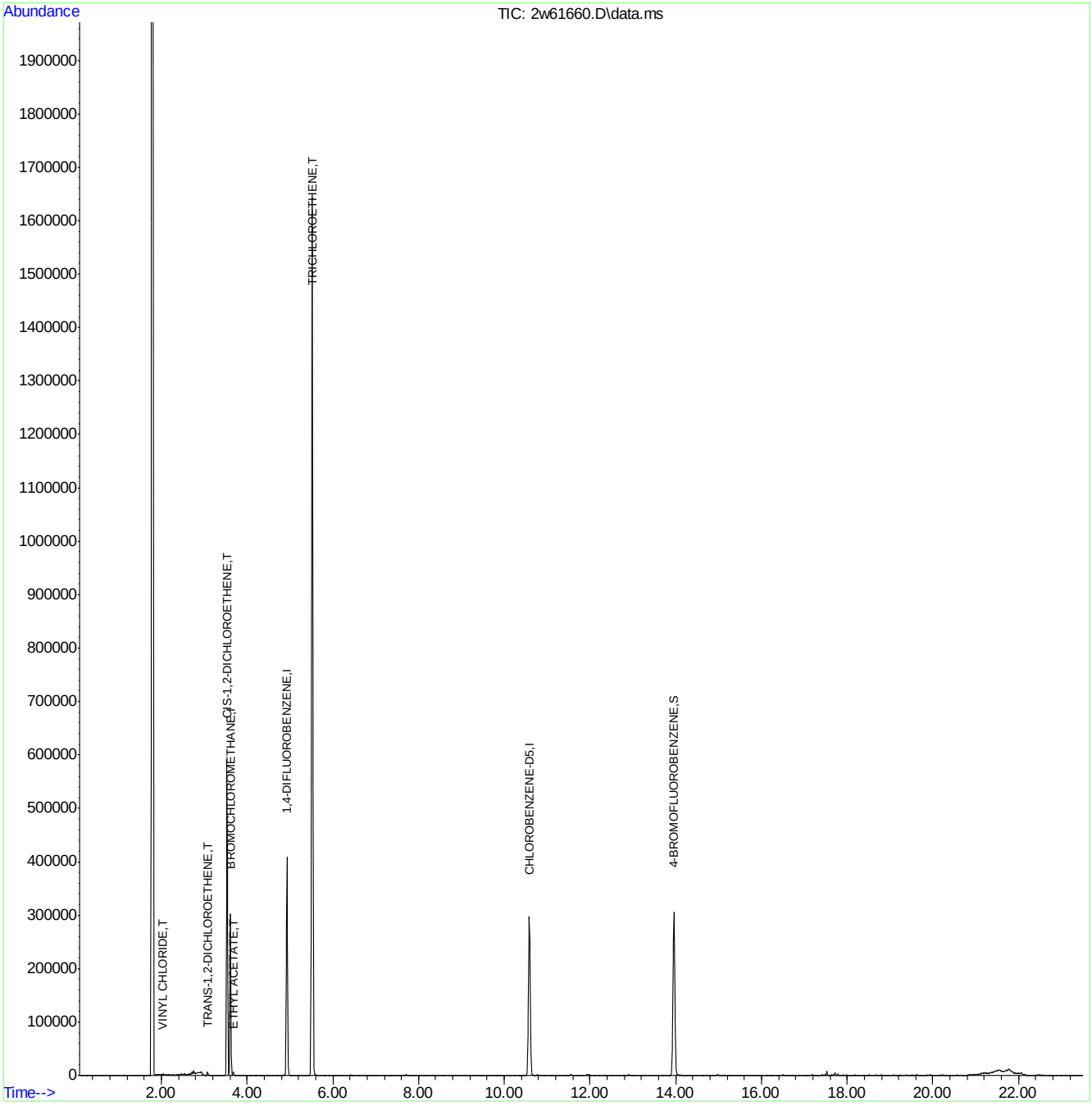
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.612 | 128 | 61641 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 318219 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 263160 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.962 | 95 | 183644 | 10.48 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 11) VINYL CHLORIDE | 2.039 | 62 | 1404 | 0.13 | PPBV # | 50 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 1555 | 0.15 | PPBV | 93 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 182562 | 16.67 | PPBV | 95 |
| 44) ETHYL ACETATE | 3.686 | 61 | 985 | 0.27 | PPBV # | 1 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 568724 | 42.17 | PPBV | 95 |

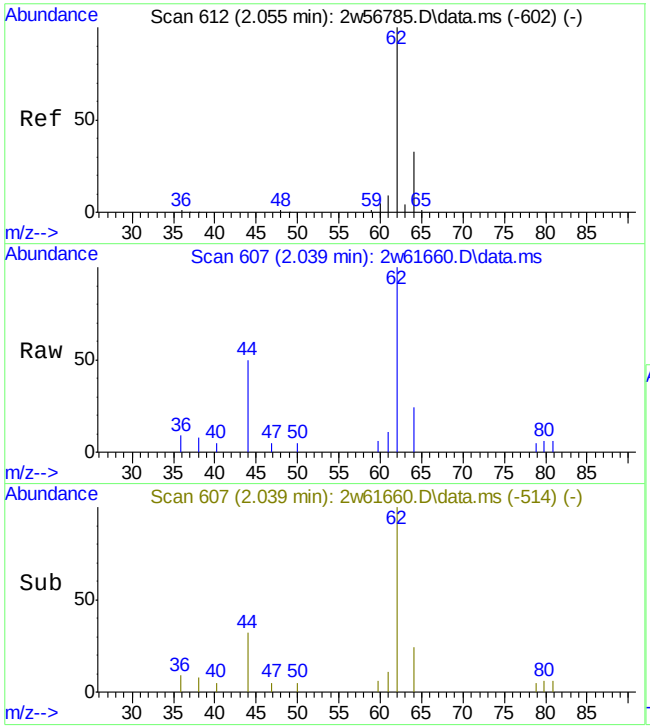
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61660.D
Acq On : 29 Sep 2022 1:47 pm
Operator : thomash
Sample : jd52620-4
Misc : MS62557,V2w2736,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 03 09:12:01 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

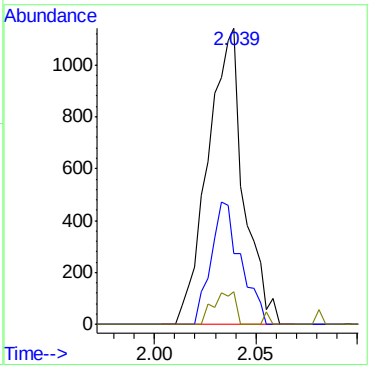


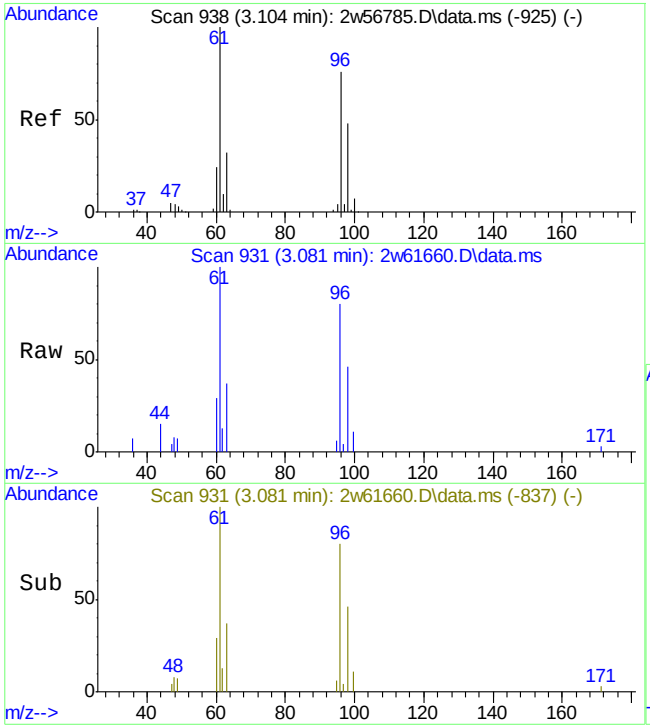



#11
VINYL CHLORIDE
Concen: 0.13 PPBV
RT: 2.039 min Scan# 607
Delta R.T. -0.000 min
Lab File: 2w61660.D
Acq: 29 Sep 2022 1:47 pm

Tgt Ion: 62 Resp: 1404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 0.0 | 25.2 | 37.8# |
| 61 | 0.0 | 7.0 | 10.4# |

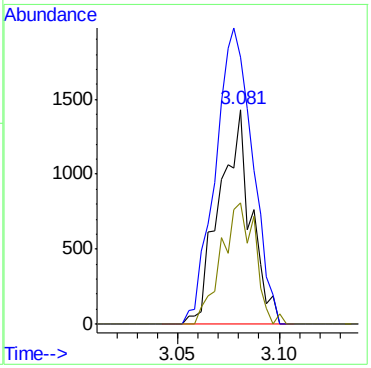


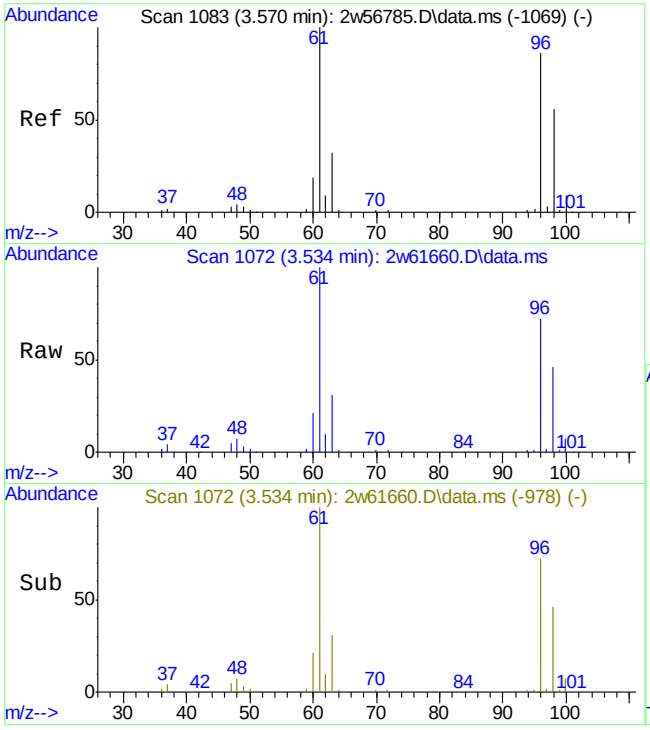




#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.15 PPBV
RT: 3.081 min Scan# 931
Delta R.T. 0.003 min
Lab File: 2w61660.D
Acq: 29 Sep 2022 1:47 pm

Tgt Ion: 96 Resp: 1555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 162.4 | 121.8 | 182.8 |
| 98 | 59.7 | 51.4 | 77.0 |

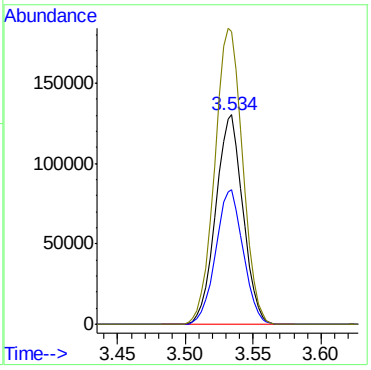


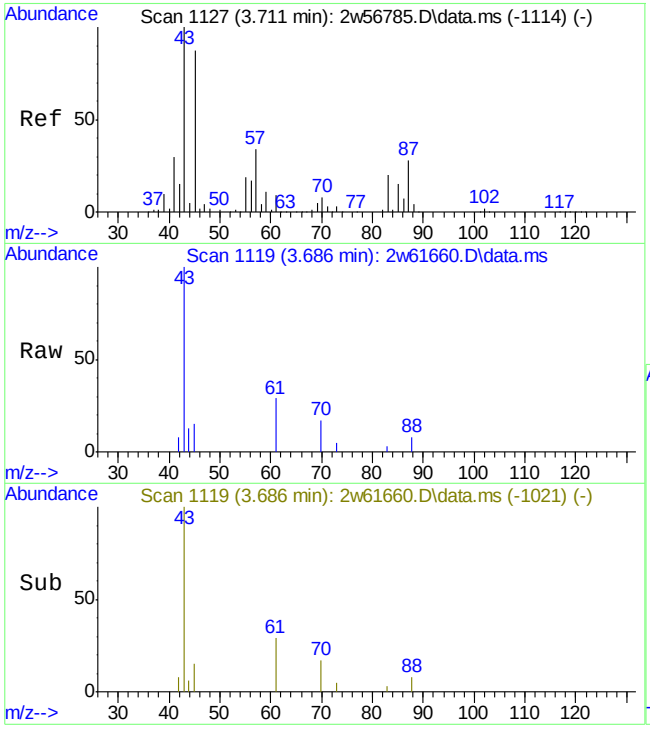



#42
CIS-1,2-DICHLOROETHENE
Concen: 16.67 PPBV
RT: 3.534 min Scan# 1072
Delta R.T. 0.003 min
Lab File: 2w61660.D
Acq: 29 Sep 2022 1:47 pm

Tgt Ion: 96 Resp: 182562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 64.8 | 51.0 | 76.6 |
| 61 | 145.1 | 109.5 | 164.3 |

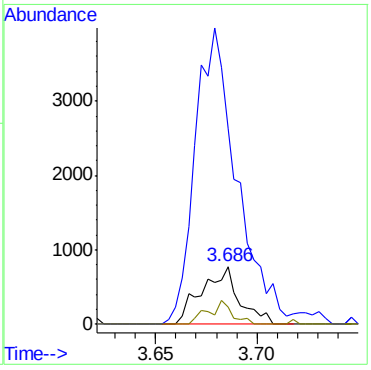


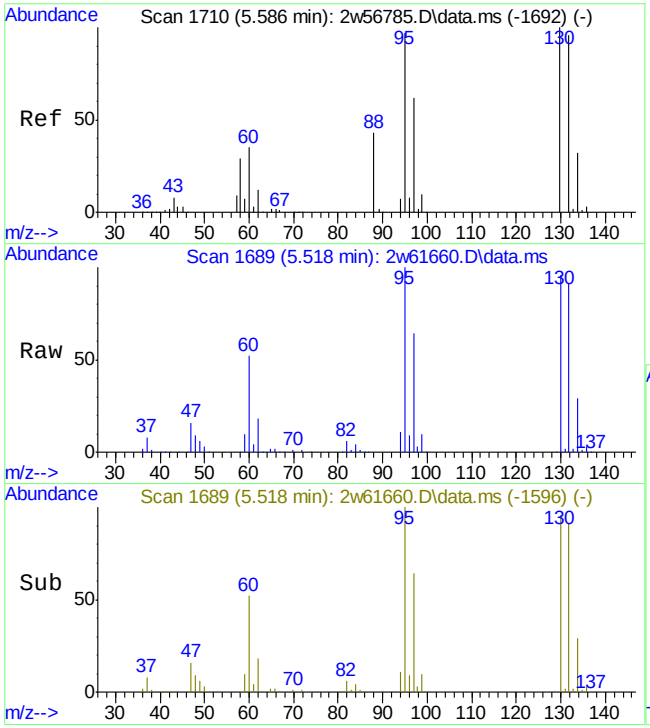




#44
ETHYL ACETATE
Concen: 0.27 PPBV
RT: 3.686 min Scan# 1119
Delta R.T. 0.016 min
Lab File: 2w61660.D
Acq: 29 Sep 2022 1:47 pm

Tgt Ion: 61 Resp: 985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 590.5 | 1054.2 | 1581.2# |
| 88 | 0.0 | 34.4 | 51.6# |

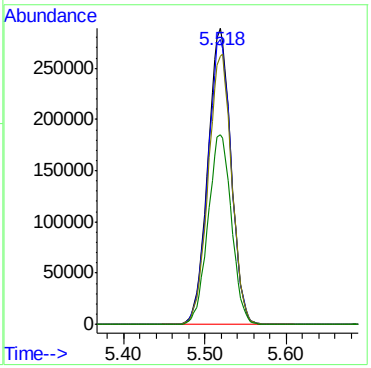





#55
TRICHLOROETHENE
Concen: 42.17 PPBV
RT: 5.518 min Scan# 1689
Delta R.T. -0.000 min
Lab File: 2w61660.D
Acq: 29 Sep 2022 1:47 pm

Tgt Ion: 95 Resp: 568724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 97.2 | 82.8 | 124.2 |
| 132 | 92.5 | 79.3 | 118.9 |
| 97 | 64.9 | 52.0 | 78.0 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61661.D
Acq On : 29 Sep 2022 2:39 pm
Operator : thomash
Sample : jd52620-5
Misc : MS62557,V2w2736,10,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 03 12:25:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

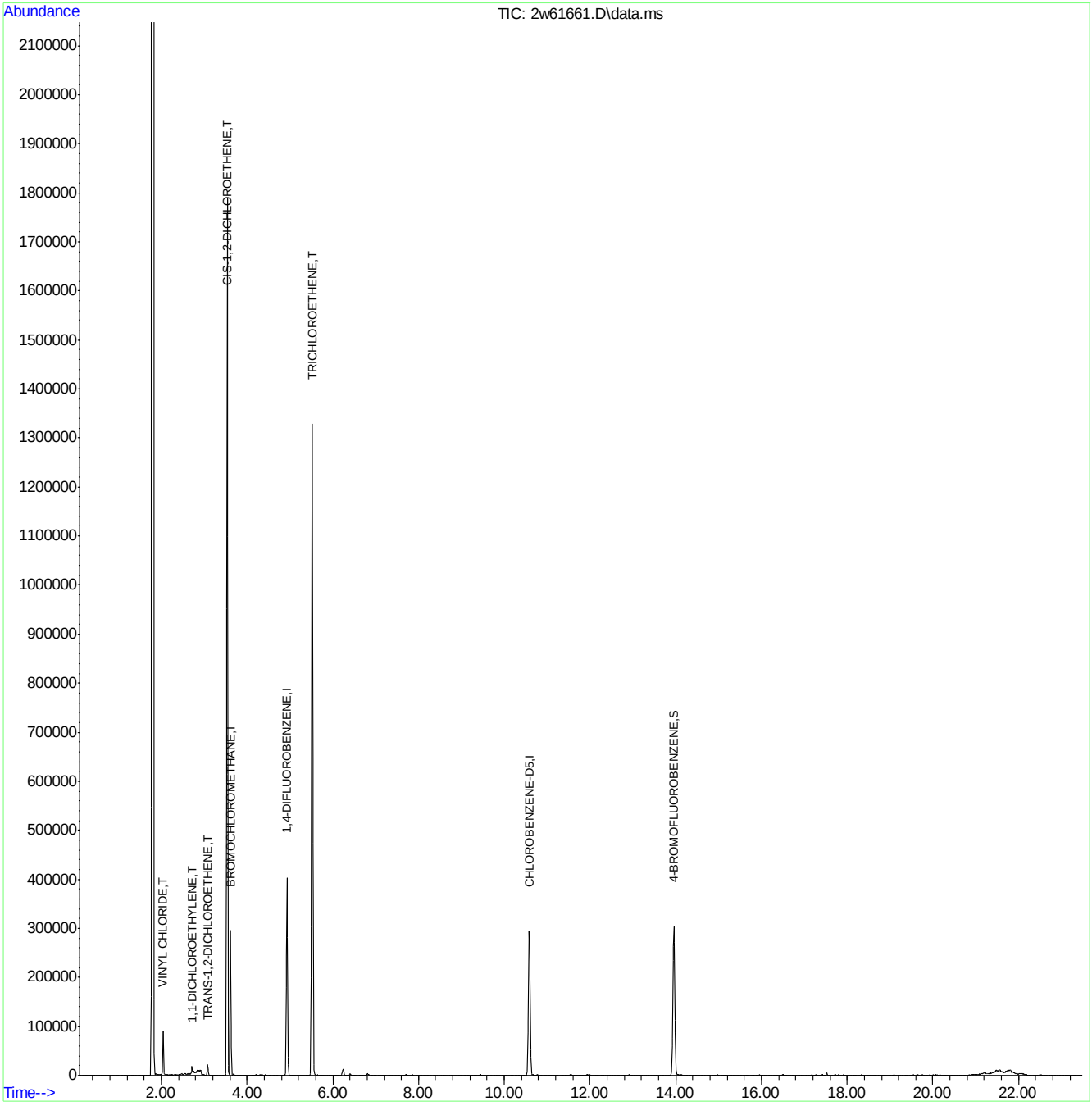
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.615 | 128 | 59066 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 312847 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 258844 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.955 | 95 | 180862 | 10.49 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 11) VINYL CHLORIDE | 2.039 | 62 | 67801 | 6.60 | PPBV | 99 |
| 26) 1,1-DICHLOROETHYLENE | 2.714 | 96 | 2988 | 0.25 | PPBV | 94 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 5299 | 0.54 | PPBV | 91 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 532673 | 50.77 | PPBV | 94 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 461048 | 34.77 | PPBV | 95 |

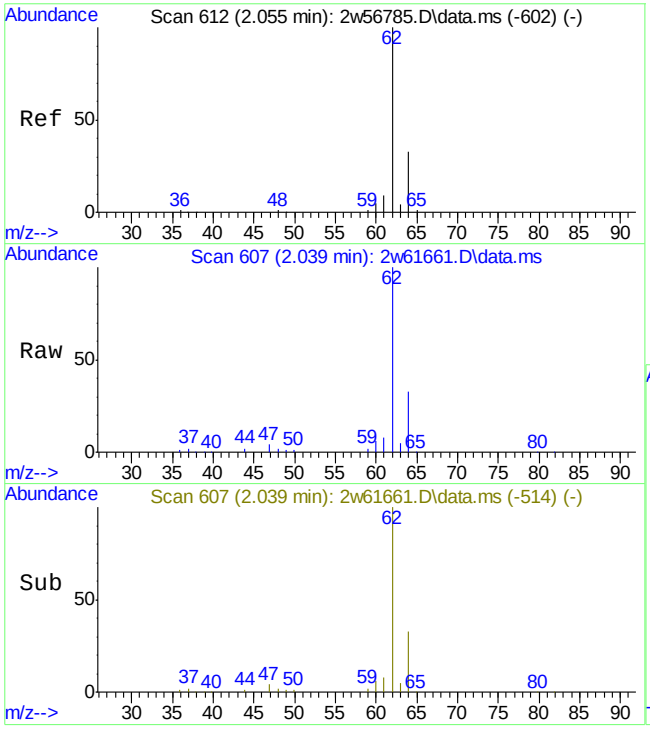
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61661.D
Acq On : 29 Sep 2022 2:39 pm
Operator : thomash
Sample : jd52620-5
Misc : MS62557,V2w2736,10,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 03 12:25:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

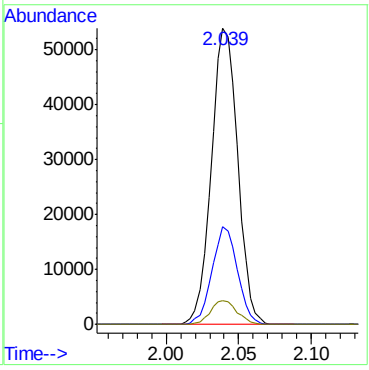


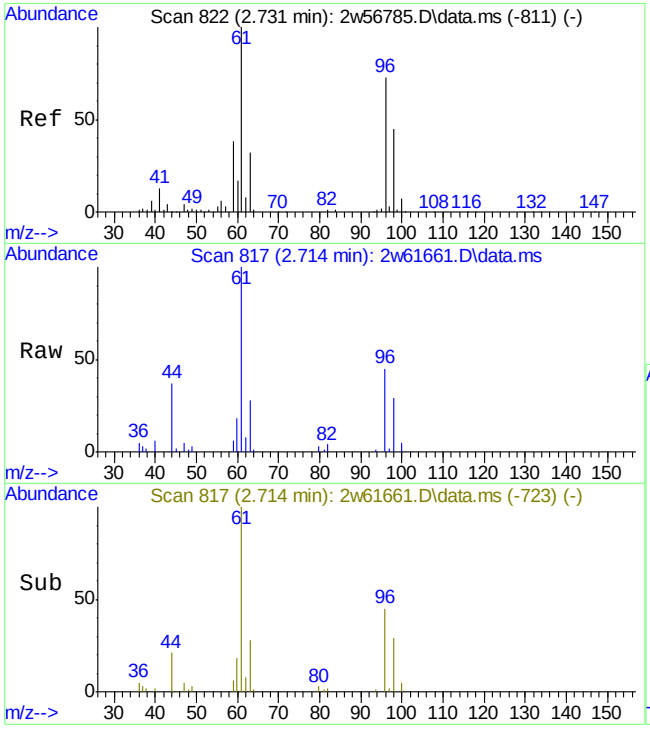



#11
VINYL CHLORIDE
Concen: 6.60 PPBV
RT: 2.039 min Scan# 607
Delta R.T. -0.000 min
Lab File: 2w61661.D
Acq: 29 Sep 2022 2:39 pm

Tgt Ion: 62 Resp: 67801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.9 | 25.2 | 37.8 |
| 61 | 8.1 | 7.0 | 10.4 |

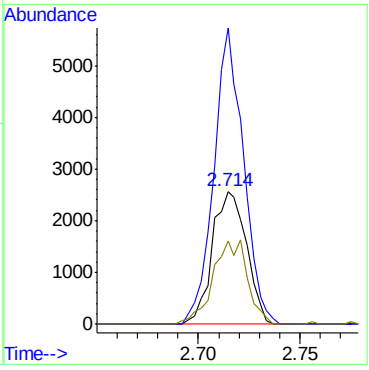


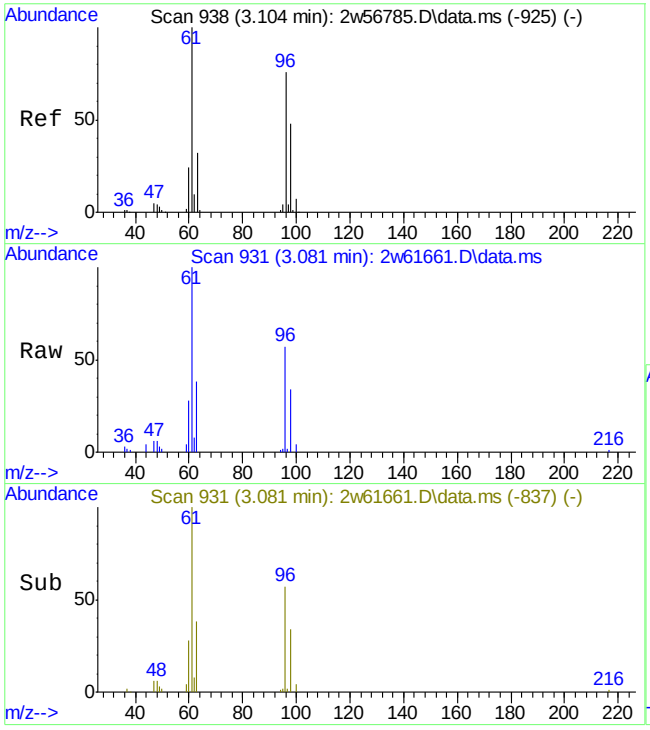




#26
1,1-DICHLOROETHYLENE
Concen: 0.25 PPBV
RT: 2.714 min Scan# 817
Delta R.T. 0.003 min
Lab File: 2w61661.D
Acq: 29 Sep 2022 2:39 pm

Tgt Ion: 96 Resp: 2988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 195.2 | 166.0 | 249.0 |
| 63 | 64.0 | 52.0 | 78.0 |

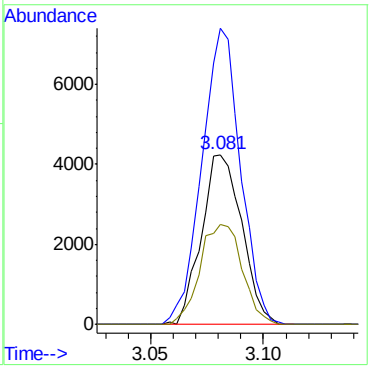


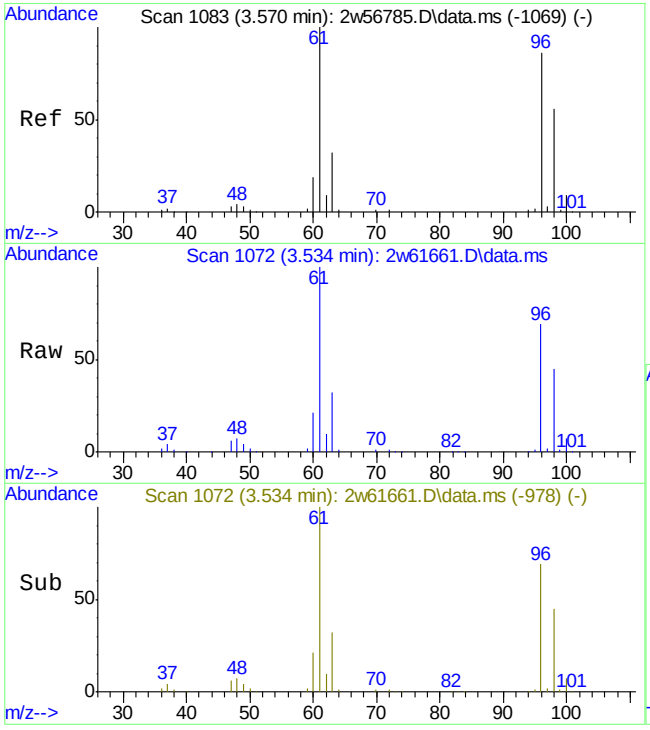



#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.54 PPBV
RT: 3.081 min Scan# 931
Delta R.T. 0.003 min
Lab File: 2w61661.D
Acq: 29 Sep 2022 2:39 pm

Tgt Ion: 96 Resp: 5299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 166.8 | 121.8 | 182.8 |
| 98 | 61.4 | 51.4 | 77.0 |

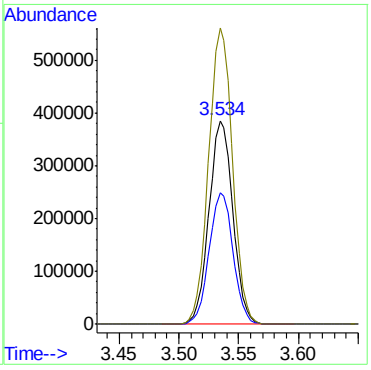


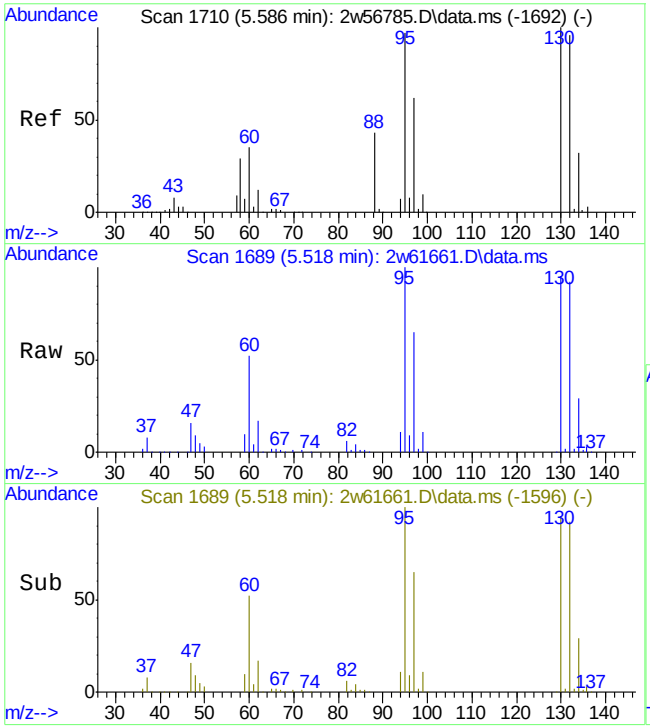




#42
CIS-1,2-DICHLOROETHENE
Concen: 50.77 PPBV
RT: 3.534 min Scan# 1072
Delta R.T. 0.003 min
Lab File: 2w61661.D
Acq: 29 Sep 2022 2:39 pm

Tgt Ion: 96 Resp: 532673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 64.9 | 51.0 | 76.6 |
| 61 | 145.9 | 109.5 | 164.3 |

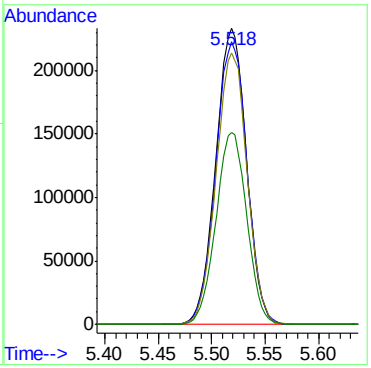





#55
TRICHLOROETHENE
Concen: 34.77 PPBV
RT: 5.518 min Scan# 1689
Delta R.T. -0.000 min
Lab File: 2w61661.D
Acq: 29 Sep 2022 2:39 pm

Tgt Ion: 95 Resp: 461048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 97.7 | 82.8 | 124.2 |
| 132 | 92.8 | 79.3 | 118.9 |
| 97 | 65.2 | 52.0 | 78.0 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26153.D
Acq On : 30 Sep 2022 2:34 am
Operator : thomash
Sample : jd52620-5
Misc : MS62557,V6W1111,5,,,,1.23
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 03 14:00:22 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

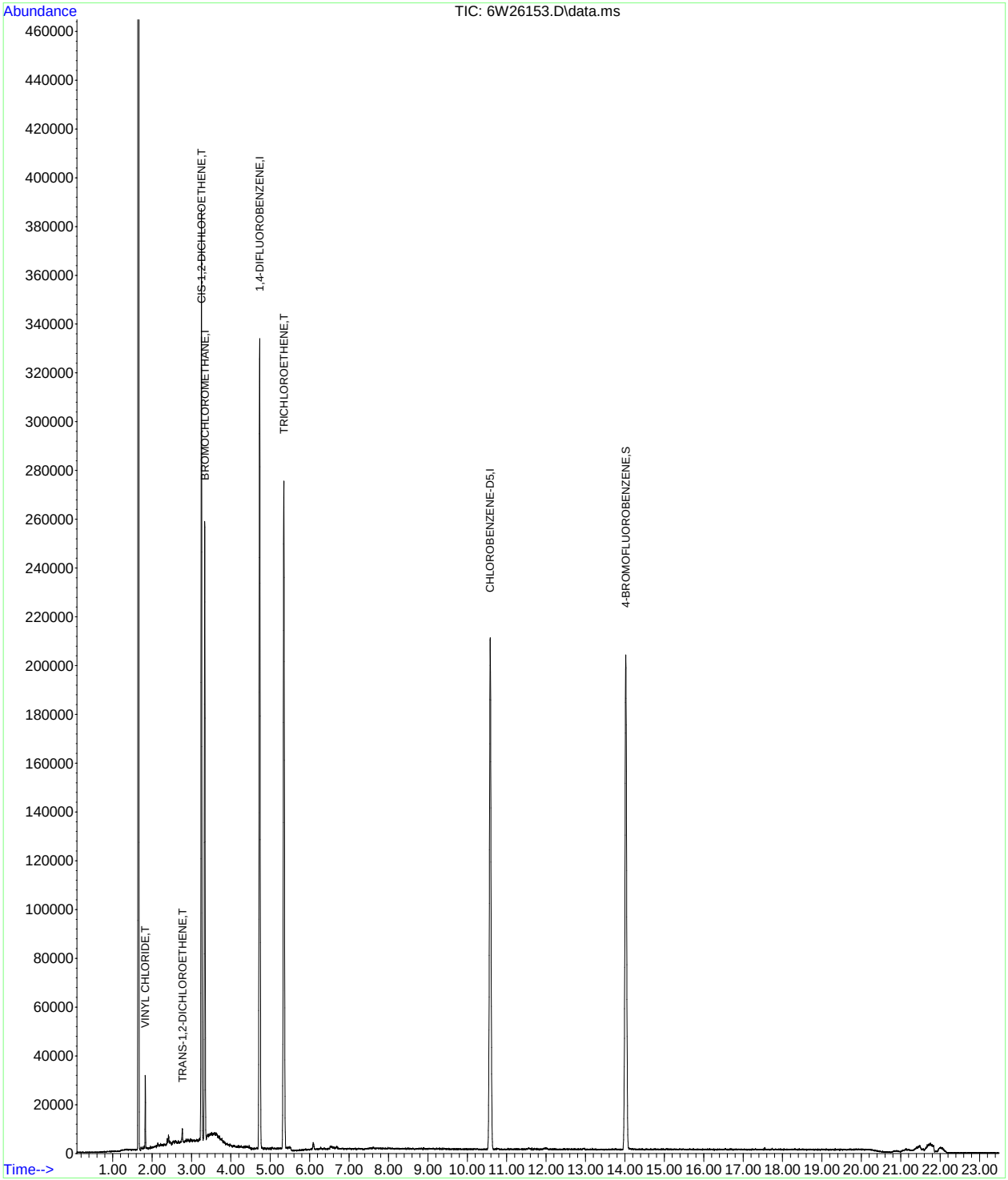
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.339 | 128 | 40042 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.731 | 114 | 225725 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.579 | 117 | 169595 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.020 | 95 | 119066 | 9.61 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 11) VINYL CHLORIDE | 1.827 | 62 | 13483 | 1.75 | PPBV | 99 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 1214 | 0.18 | PPBV # | 78 |
| 42) CIS-1,2-DICHLOROETHENE | 3.252 | 96 | 109844 | 15.12 | PPBV # | 79 |
| 55) TRICHLOROETHENE | 5.345 | 95 | 97866 | 10.39 | PPBV | 86 |

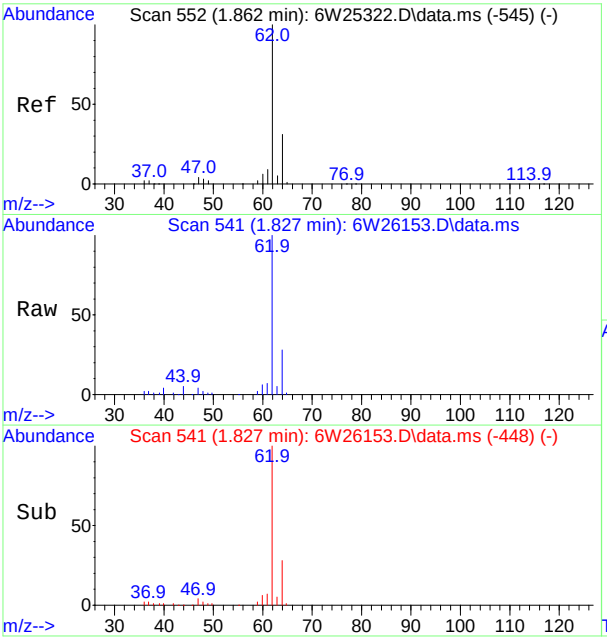
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26153.D
Acq On : 30 Sep 2022 2:34 am
Operator : thomash
Sample : jd52620-5
Misc : MS62557,V6W1111,5,,,,1.23
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 03 14:00:22 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

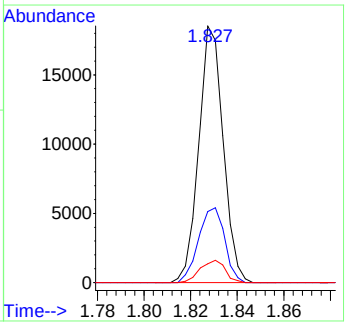


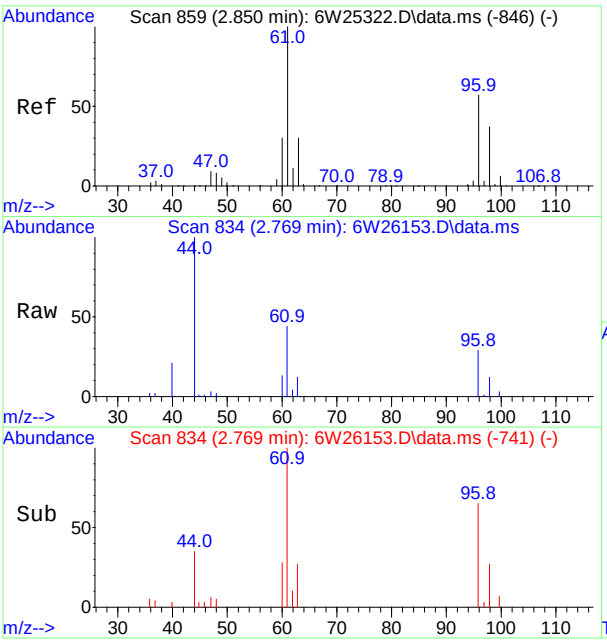



#11
VINYL CHLORIDE
Concen: 1.75 PPBV
RT: 1.827 min Scan# 541
Delta R.T. 0.000 min
Lab File: 6W26153.D
Acq: 30 Sep 2022 2:34 am

Tgt Ion: 62 Resp: 13483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.3 | 25.7 | 38.5 |
| 61 | 8.9 | 6.7 | 10.1 |

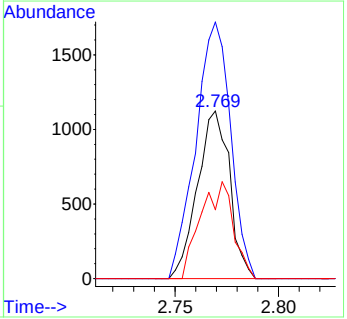


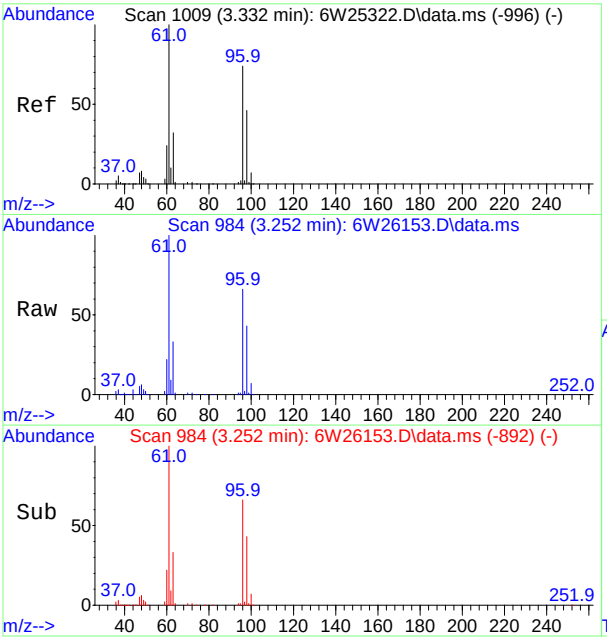




#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.18 PPBV
RT: 2.769 min Scan# 834
Delta R.T. 0.001 min
Lab File: 6W26153.D
Acq: 30 Sep 2022 2:34 am

Tgt Ion: 96 Resp: 1214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 165.8 | 104.3 | 156.5# |
| 98 | 59.1 | 50.6 | 76.0 |

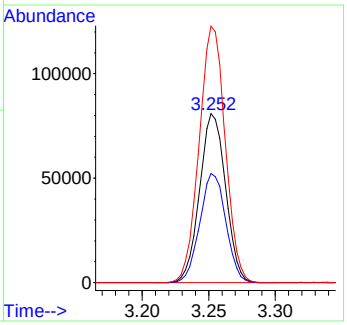


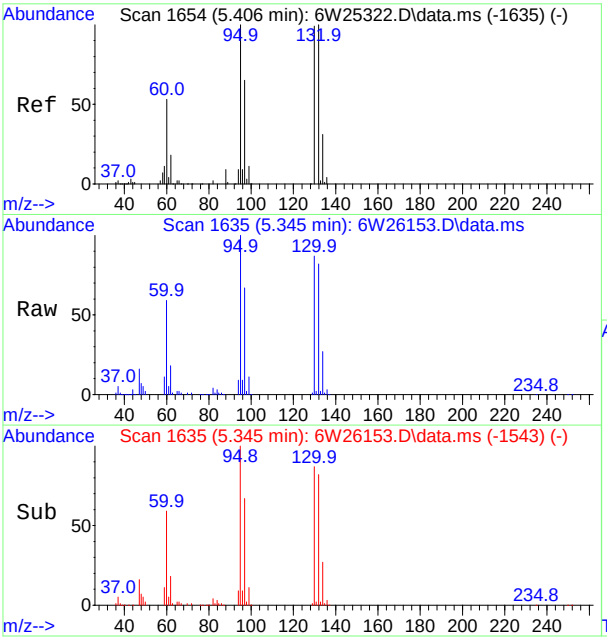



#42
CIS-1,2-DICHLOROETHENE
Concen: 15.12 PPBV
RT: 3.252 min Scan# 984
Delta R.T. -0.003 min
Lab File: 6W26153.D
Acq: 30 Sep 2022 2:34 am

Tgt Ion: 96 Resp: 109844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 64.6 | 51.1 | 76.7 |
| 61 | 152.1 | 93.9 | 140.9# |

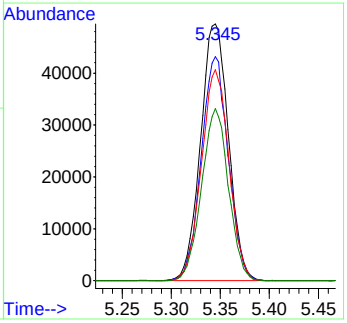



#55
TRICHLOROETHENE
Concen: 10.39 PPBV
RT: 5.345 min Scan# 1635
Delta R.T. -0.003 min
Lab File: 6W26153.D
Acq: 30 Sep 2022 2:34 am

Tgt Ion: 95 Resp: 97866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 84.6 | 83.2 | 124.8 |
| 132 | 81.0 | 79.8 | 119.6 |
| 97 | 64.6 | 51.3 | 76.9 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61662.D
Acq On : 29 Sep 2022 3:12 pm
Operator : thomash
Sample : jd52620-6
Misc : MS62557,V2w2736,20,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 03 12:27:49 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

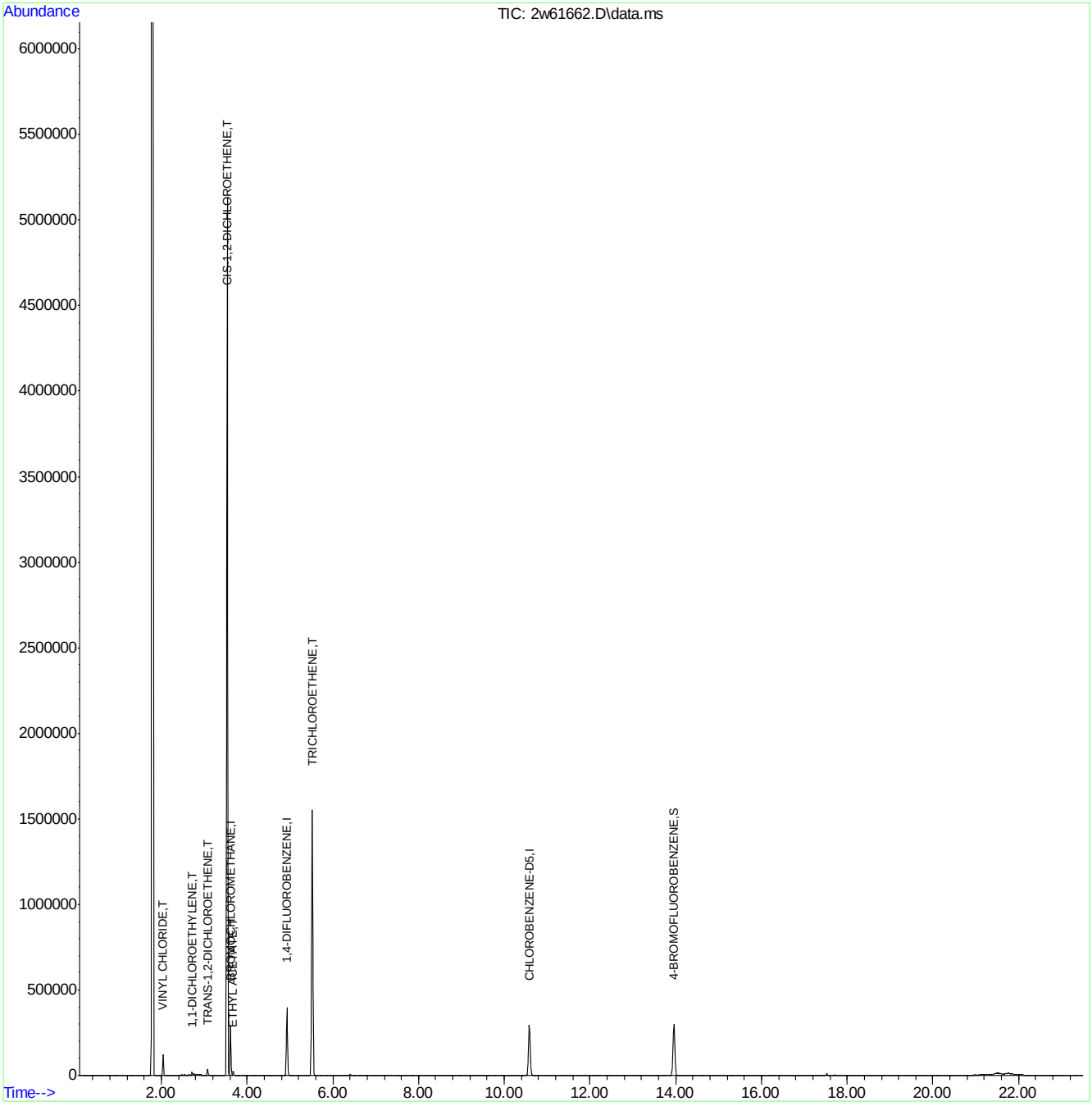
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.612 | 128 | 59802 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 309887 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 259770 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.962 | 95 | 178507 | 10.32 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 11) VINYL CHLORIDE | 2.039 | 62 | 95462 | 9.17 | PPBV | 99 |
| 26) 1,1-DICHLOROETHYLENE | 2.714 | 96 | 3811 | 0.32 | PPBV | 94 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 8809 | 0.89 | PPBV | 90 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 1499299 | 141.15 | PPBV | 95 |
| 44) ETHYL ACETATE | 3.673 | 61 | 4260 | 1.20 | PPBV # | 1 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 536650 | 40.86 | PPBV | 95 |

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

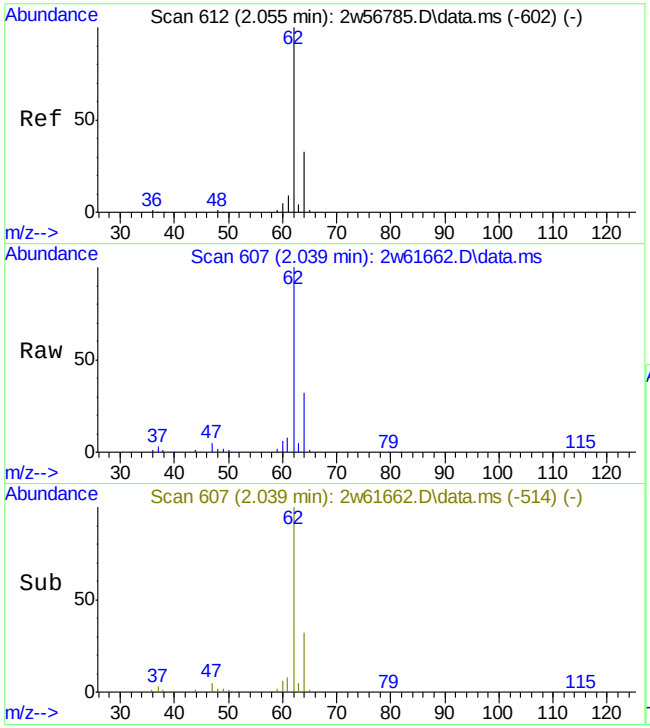
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61662.D
Acq On : 29 Sep 2022 3:12 pm
Operator : thomash
Sample : jd52620-6
Misc : MS62557,V2w2736,20,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 03 12:27:49 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



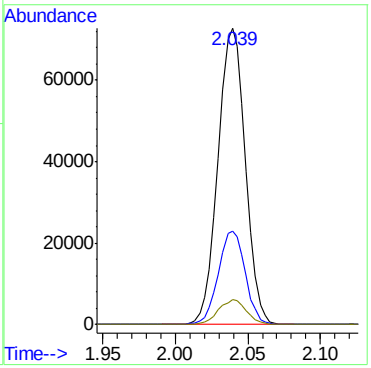

M2W2709.M Mon Oct 03 13:16:25 2022 GCMS2W Page: 2

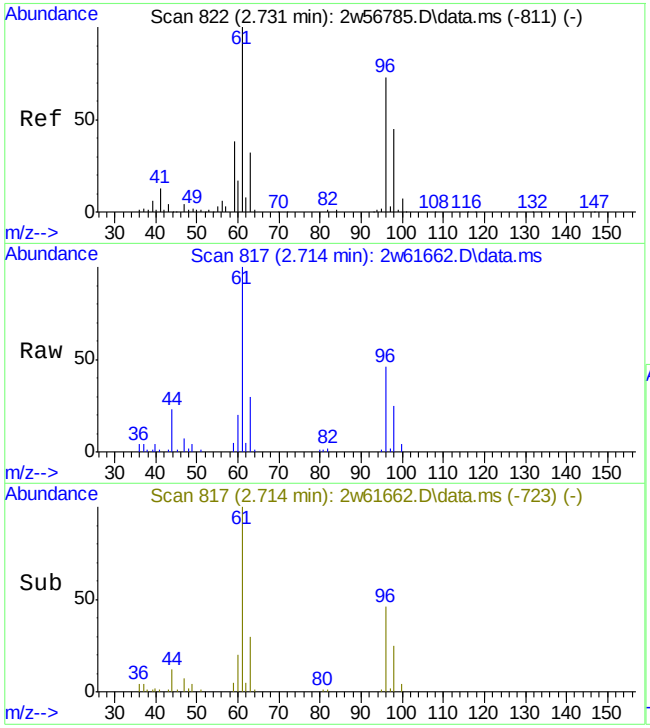



#11
VINYL CHLORIDE
Concen: 9.17 PPBV
RT: 2.039 min Scan# 607
Delta R.T. -0.000 min
Lab File: 2w61662.D
Acq: 29 Sep 2022 3:12 pm

Tgt Ion: 62 Resp: 95462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.0 | 25.2 | 37.8 |
| 61 | 8.4 | 7.0 | 10.4 |

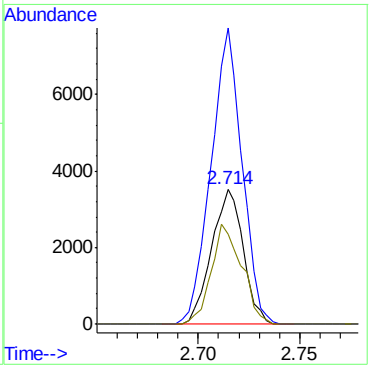


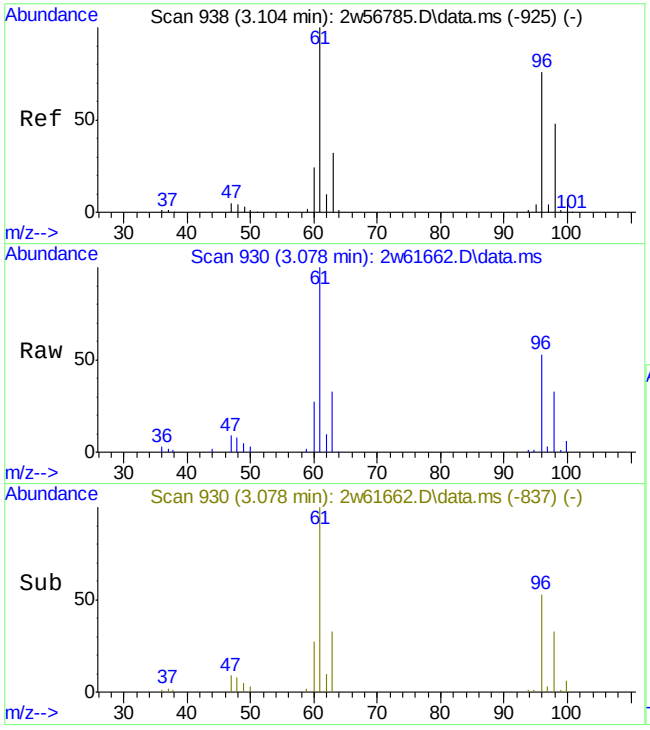




#26
1,1-DICHLOROETHYLENE
Concen: 0.32 PPBV
RT: 2.714 min Scan# 817
Delta R.T. 0.003 min
Lab File: 2w61662.D
Acq: 29 Sep 2022 3:12 pm

Tgt Ion: 96 Resp: 3811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 215.5 | 166.0 | 249.0 |
| 63 | 71.3 | 52.0 | 78.0 |

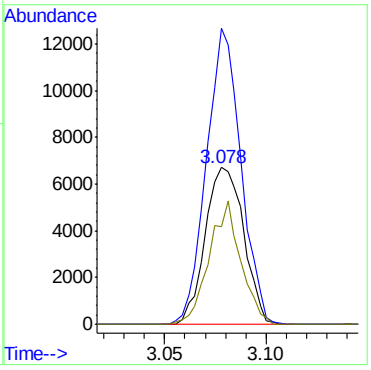


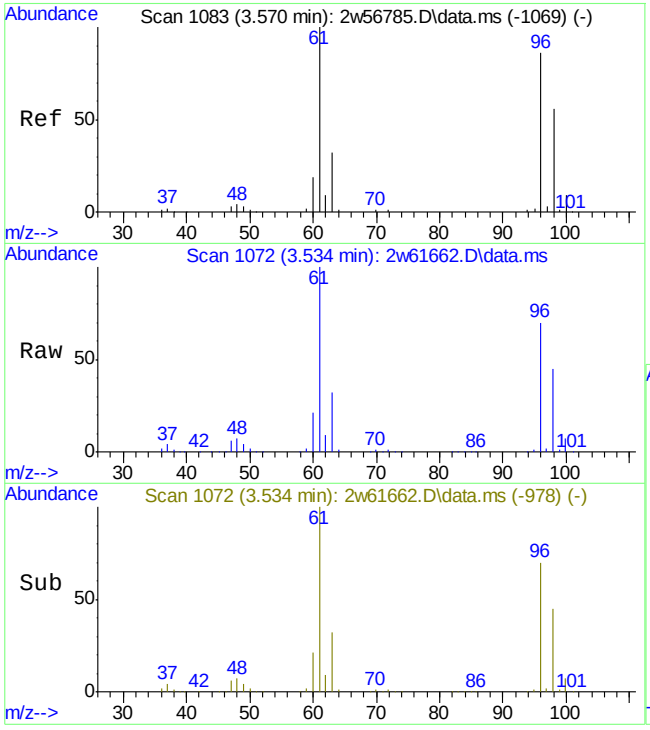



#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.89 PPBV
RT: 3.078 min Scan# 930
Delta R.T. -0.000 min
Lab File: 2w61662.D
Acq: 29 Sep 2022 3:12 pm

Tgt Ion: 96 Resp: 8809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 170.1 | 121.8 | 182.8 |
| 98 | 64.9 | 51.4 | 77.0 |

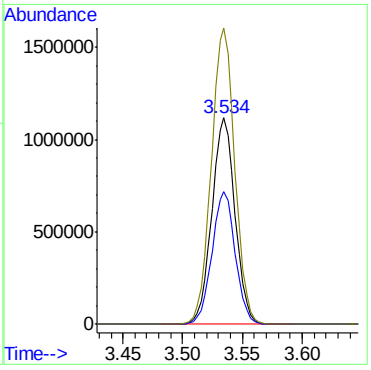


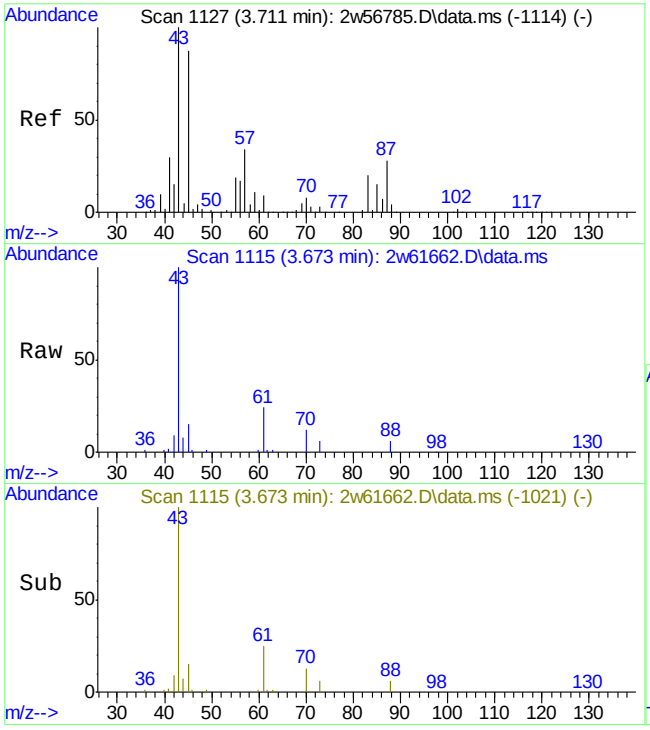




#42
CIS-1,2-DICHLOROETHENE
Concen: 141.15 PPBV
RT: 3.534 min Scan# 1072
Delta R.T. 0.003 min
Lab File: 2w61662.D
Acq: 29 Sep 2022 3:12 pm

Tgt Ion: 96 Resp: 1499299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 64.2 | 51.0 | 76.6 |
| 61 | 145.1 | 109.5 | 164.3 |

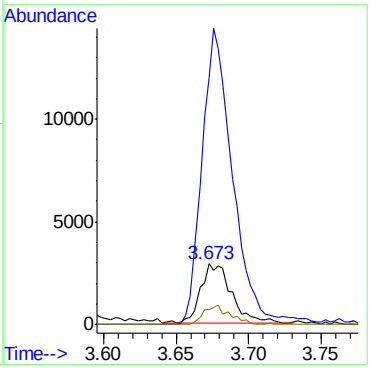


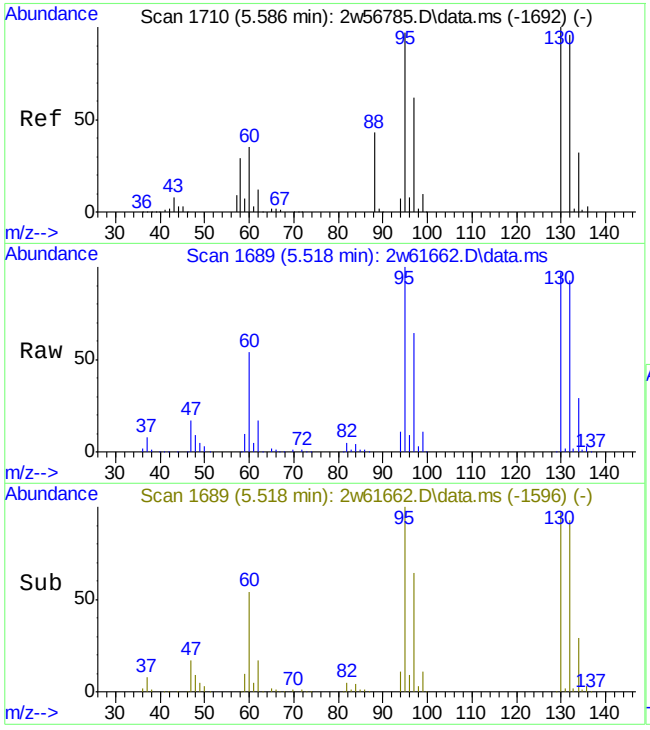



#44
ETHYL ACETATE
Concen: 1.20 PPBV
RT: 3.673 min Scan# 1115
Delta R.T. 0.003 min
Lab File: 2w61662.D
Acq: 29 Sep 2022 3:12 pm

Tgt Ion: 61 Resp: 4260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 500.4 | 1054.2 | 1581.2# |
| 88 | 26.8 | 34.4 | 51.6# |

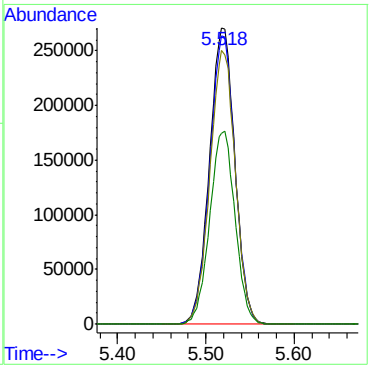



#55
TRICHLOROETHENE
Concen: 40.86 PPBV
RT: 5.518 min Scan# 1689
Delta R.T. -0.000 min
Lab File: 2w61662.D
Acq: 29 Sep 2022 3:12 pm

Tgt Ion: 95 Resp: 536650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 96.8 | 82.8 | 124.2 |
| 132 | 92.4 | 79.3 | 118.9 |
| 97 | 65.0 | 52.0 | 78.0 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26154.D
Acq On : 30 Sep 2022 3:18 am
Operator : thomash
Sample : jd52620-6
Misc : MS62557,V6W1111,5,,,,1.15
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 03 14:00:35 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

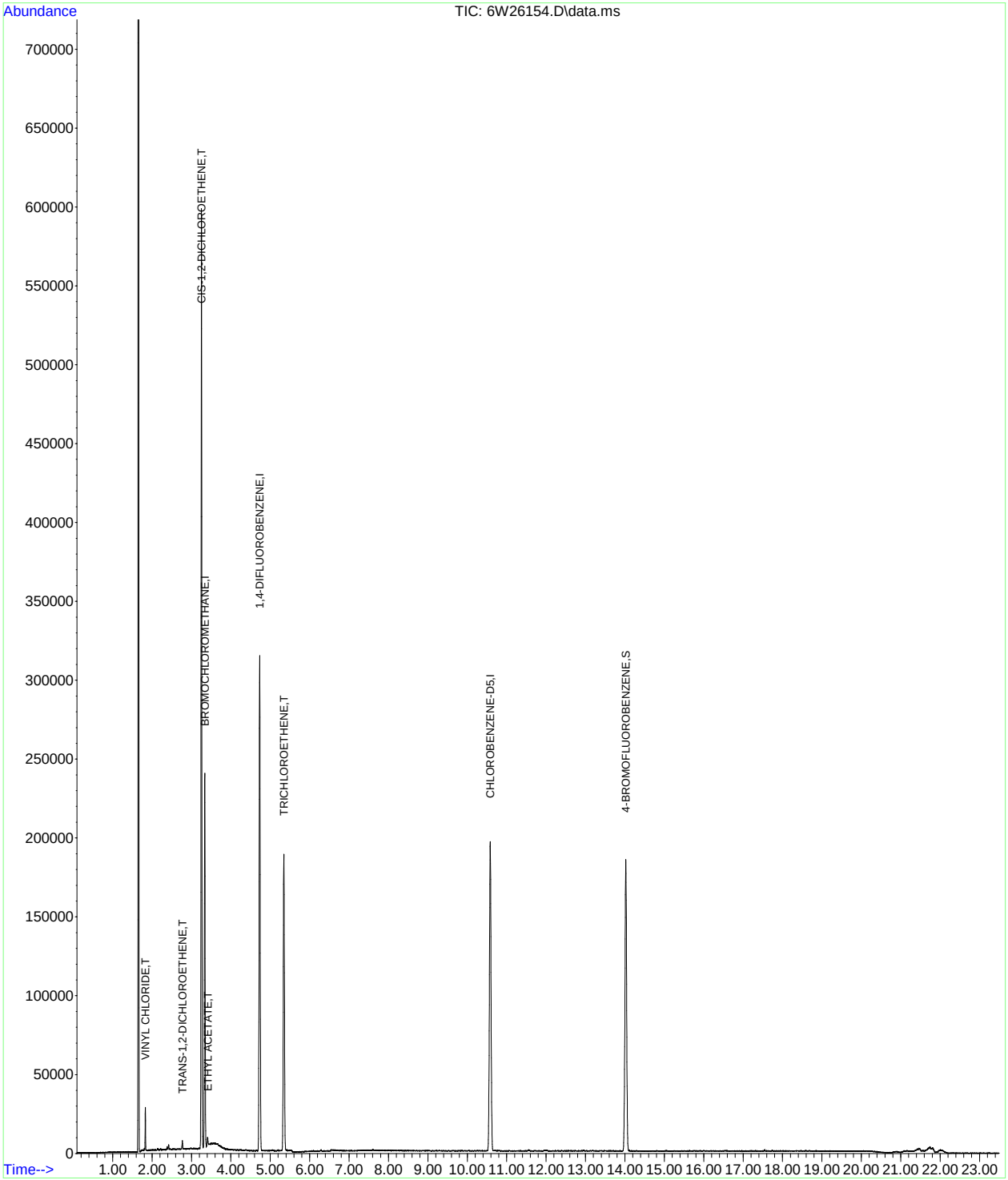
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 37766 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.731 | 114 | 213412 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 159103 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.023 | 95 | 106410 | 9.15 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 11) VINYL CHLORIDE | 1.831 | 62 | 11579 | 1.59 | PPBV | 99 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 1196 | 0.19 | PPBV # | 76 |
| 42) CIS-1,2-DICHLOROETHENE | 3.252 | 96 | 171826 | 25.07 | PPBV # | 80 |
| 44) ETHYL ACETATE | 3.416 | 61 | 653 | 0.26 | PPBV # | 15 |
| 55) TRICHLOROETHENE | 5.348 | 95 | 66870 | 7.51 | PPBV | 85 |

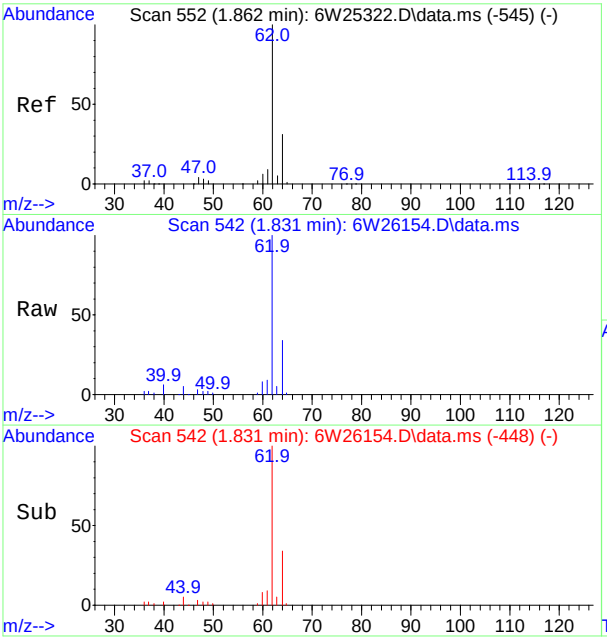
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26154.D
Acq On : 30 Sep 2022 3:18 am
Operator : thomash
Sample : jd52620-6
Misc : MS62557,V6W1111,5,,,,1.15
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 03 14:00:35 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

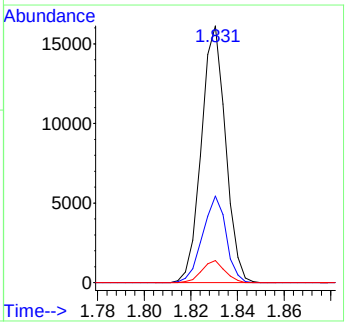


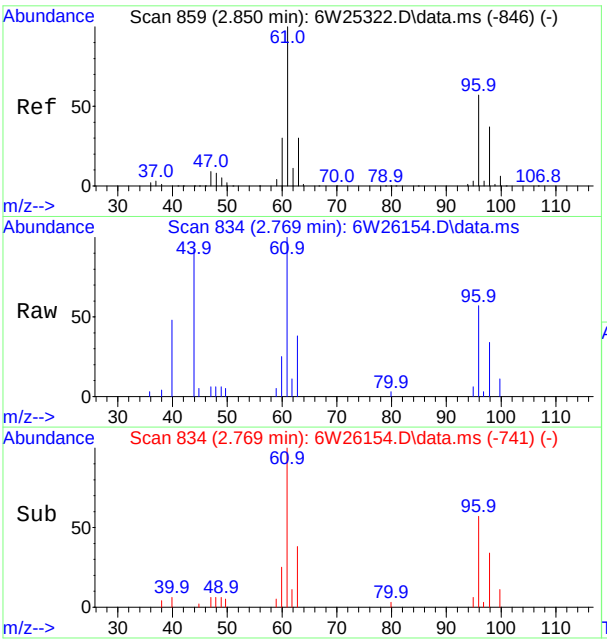



#11
VINYL CHLORIDE
Concen: 1.59 PPBV
RT: 1.831 min Scan# 542
Delta R.T. 0.004 min
Lab File: 6W26154.D
Acq: 30 Sep 2022 3:18 am

Tgt Ion: 62 Resp: 11579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.8 | 25.7 | 38.5 |
| 61 | 8.2 | 6.7 | 10.1 |

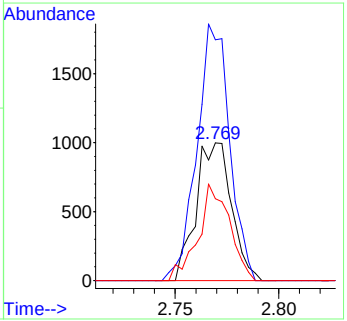


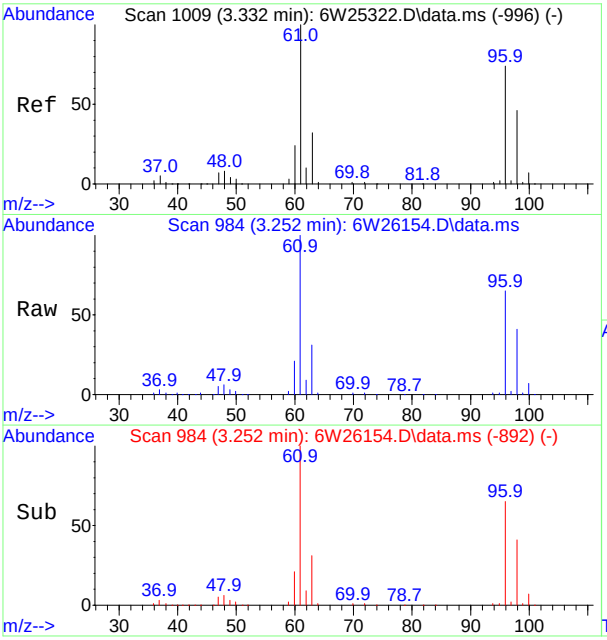




#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.19 PPBV
RT: 2.769 min Scan# 834
Delta R.T. 0.000 min
Lab File: 6W26154.D
Acq: 30 Sep 2022 3:18 am

Tgt Ion: 96 Resp: 1196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 170.8 | 104.3 | 156.5# |
| 98 | 61.6 | 50.6 | 76.0 |

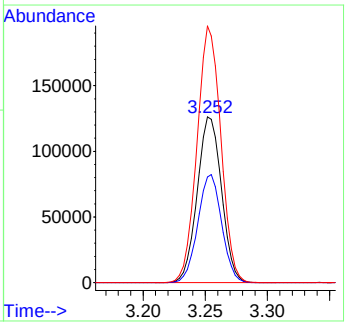


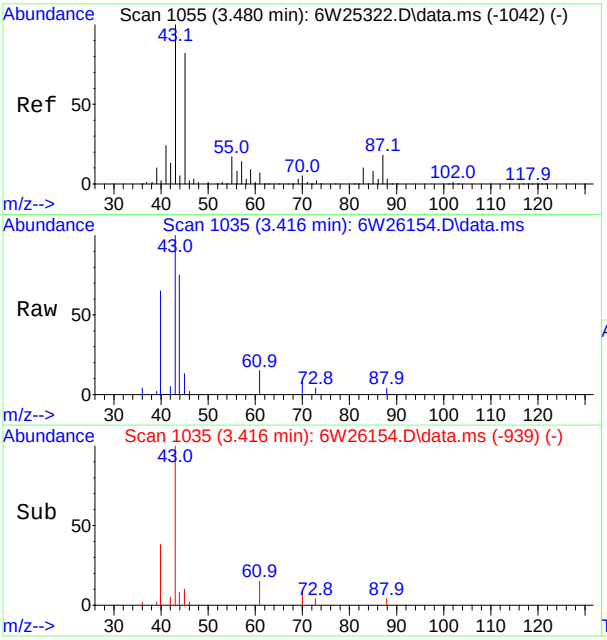



#42
CIS-1,2-DICHLOROETHENE
Concen: 25.07 PPBV
RT: 3.252 min Scan# 984
Delta R.T. -0.003 min
Lab File: 6W26154.D
Acq: 30 Sep 2022 3:18 am

Tgt Ion: 96 Resp: 171826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 64.0 | 51.1 | 76.7 |
| 61 | 151.8 | 93.9 | 140.9# |

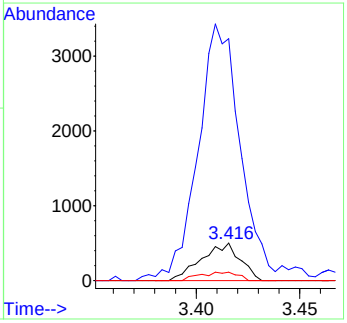


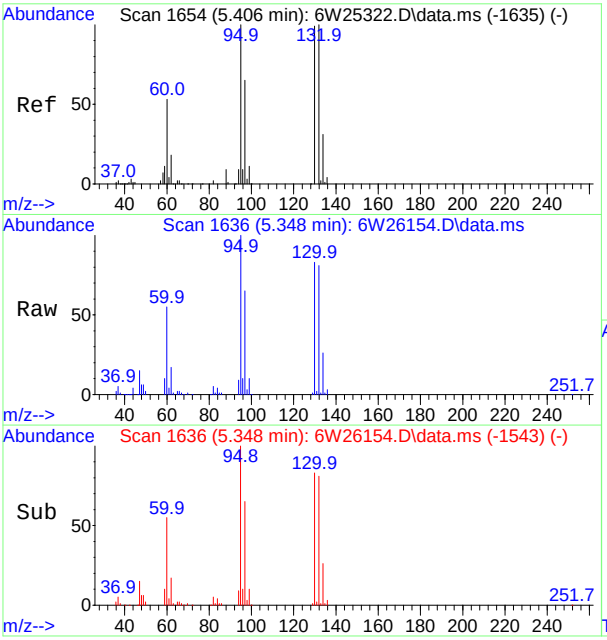




#44
ETHYL ACETATE
Concen: 0.26 PPBV
RT: 3.416 min Scan# 1035
Delta R.T. 0.010 min
Lab File: 6W26154.D
Acq: 30 Sep 2022 3:18 am

Tgt Ion: 61 Resp: 653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 788.2 | 986.2 | 1479.2# |
| 88 | 0.0 | 38.8 | 58.2# |

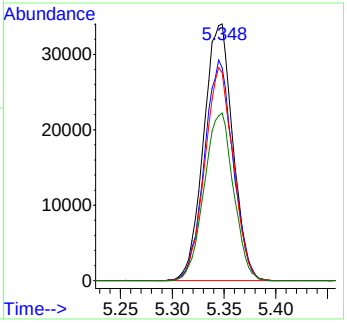





#55
TRICHLOROETHENE
Concen: 7.51 PPBV
RT: 5.348 min Scan# 1636
Delta R.T. 0.000 min
Lab File: 6W26154.D
Acq: 30 Sep 2022 3:18 am

Tgt Ion: 95 Resp: 66870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 84.0 | 83.2 | 124.8 |
| 132 | 81.0 | 79.8 | 119.6 |
| 97 | 65.5 | 51.3 | 76.9 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61663.D
Acq On : 29 Sep 2022 3:44 pm
Operator : thomash
Sample : jd52620-7
Misc : MS62557,V2w2736,100,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 03 12:31:19 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

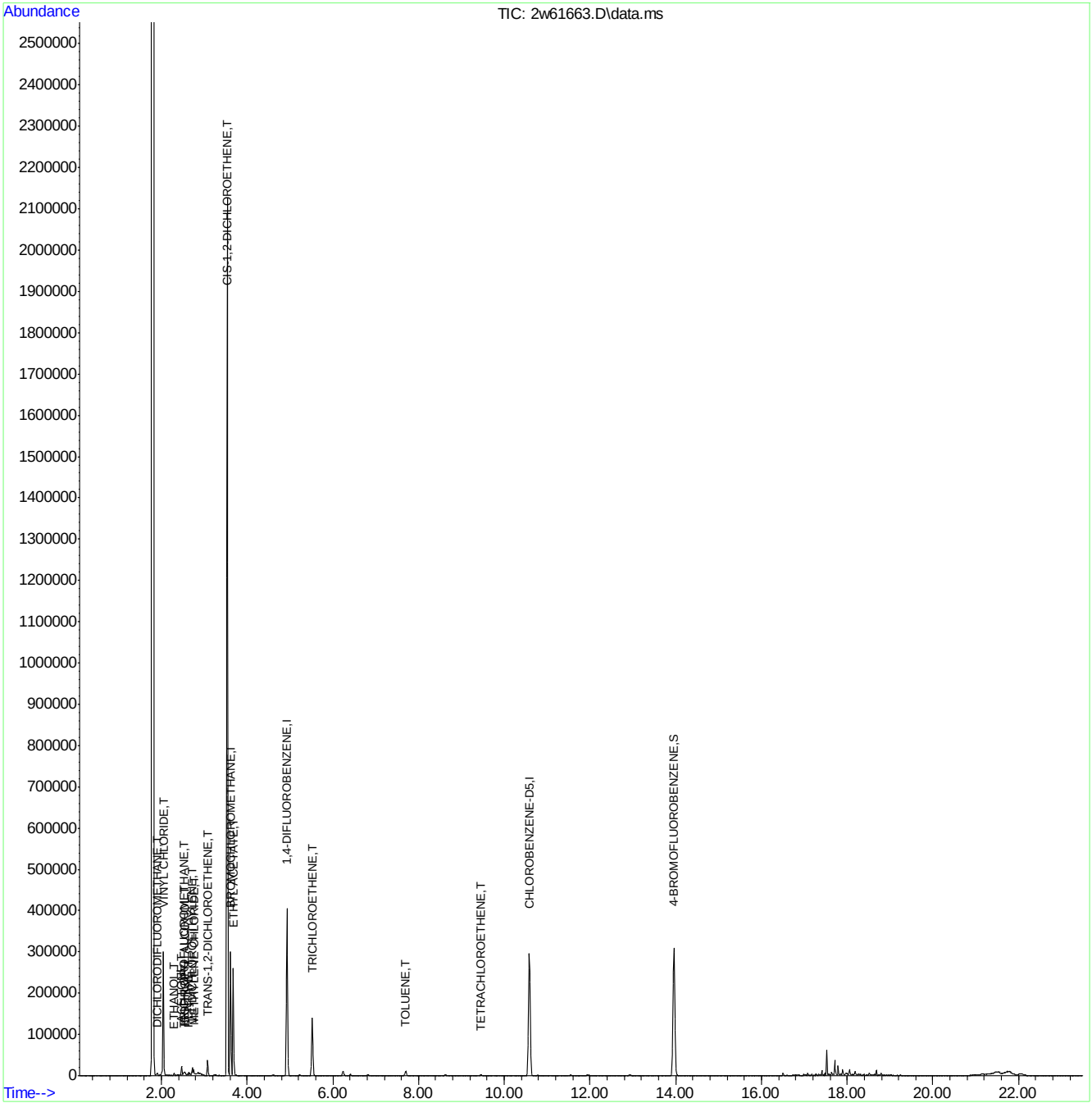
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.612 | 128 | 60578 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 318076 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 261635 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.962 | 95 | 184600 | 10.60 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 6) DICHLORODIFLUOROMETHANE | 1.908 | 85 | 3166 | 0.11 | PPBV | # | 83 |
| 11) VINYL CHLORIDE | 2.046 | 62 | 235756 | 22.36 | PPBV | | 99 |
| 21) TRICHLOROFLUOROMETHANE | 2.522 | 101 | 3068 | 0.10 | PPBV | # | 94 |
| 22) ISOPROPYL ALCOHOL | 2.541 | 45 | 5422 | 0.22 | PPBV | # | 95 |
| 23) ACETONE | 2.470 | 58 | 5656 | 0.71 | PPBV | | 78 |
| 24) PENTANE | 2.634 | 42 | 1639 | 0.12 | PPBV | # | 84 |
| 26) 1,1-DICHLOROETHYLENE | 2.718 | 96 | 3043 | 0.25 | PPBV | | 85 |
| 28) ETHANOL | 2.297 | 45 | 3866 | 0.78 | PPBV | # | 94 |
| 31) METHYLENE CHLORIDE | 2.753 | 84 | 2751 | 0.21 | PPBV | | 97 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 9024 | 0.90 | PPBV | | 91 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 642103 | 59.68 | PPBV | | 95 |
| 44) ETHYL ACETATE | 3.676 | 61 | 41116 | 11.46 | PPBV | # | 1 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 48543 | 3.60 | PPBV | | 95 |
| 66) TOLUENE | 7.702 | 91 | 10876 | 0.28 | PPBV | | 96 |
| 72) TETRACHLOROETHENE | 9.444 | 164 | 558 | 0.04 | PPBV | # | 8 |

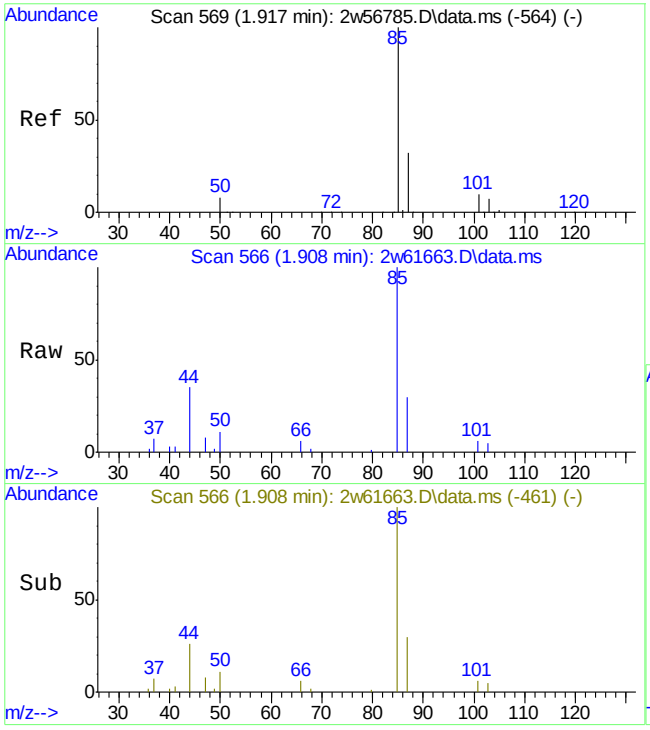
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61663.D
Acq On : 29 Sep 2022 3:44 pm
Operator : thomash
Sample : jd52620-7
Misc : MS62557,V2w2736,100,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 03 12:31:19 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

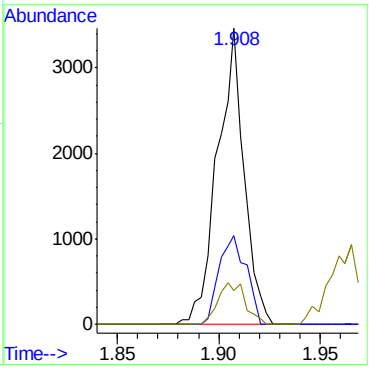


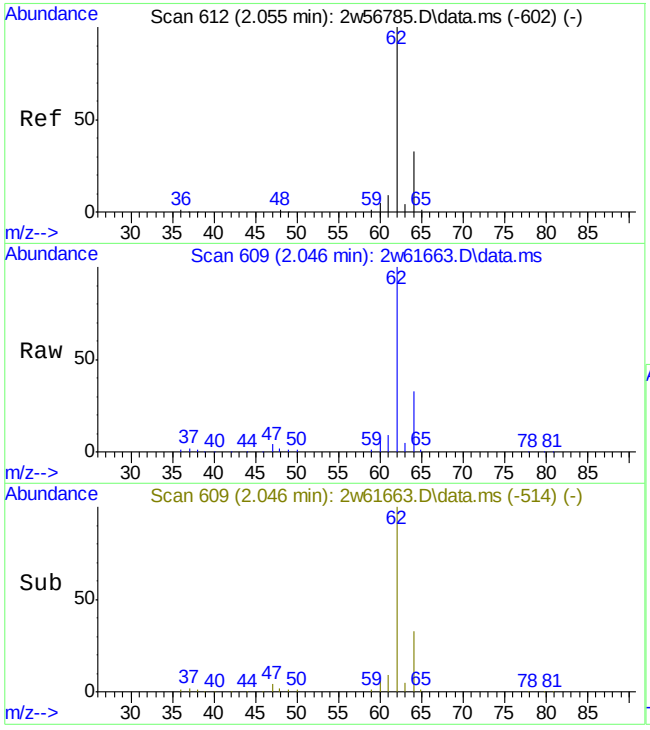



#6
DICHLORODIFLUOROMETHANE
Concen: 0.11 PPBV
RT: 1.908 min Scan# 566
Delta R.T. 0.006 min
Lab File: 2w61663.D
Acq: 29 Sep 2022 3:44 pm

Tgt Ion: 85 Resp: 3166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 30.4 | 25.9 | 38.9 |
| 50 | 0.0 | 14.6 | 21.8# |

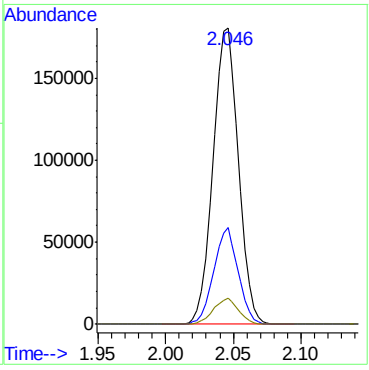


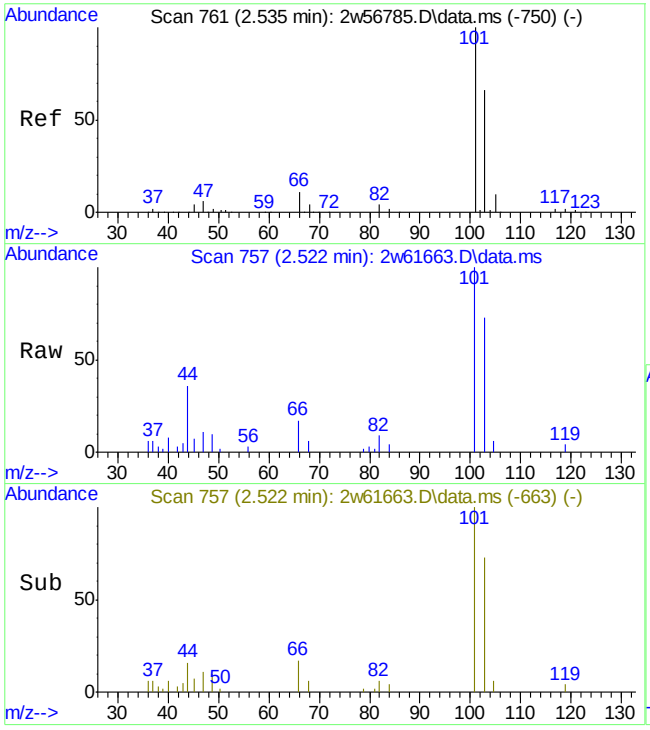




#11
VINYL CHLORIDE
Concen: 22.36 PPBV
RT: 2.046 min Scan# 609
Delta R.T. 0.006 min
Lab File: 2w61663.D
Acq: 29 Sep 2022 3:44 pm

Tgt Ion: 62 Resp: 235756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.2 | 25.2 | 37.8 |
| 61 | 8.5 | 7.0 | 10.4 |

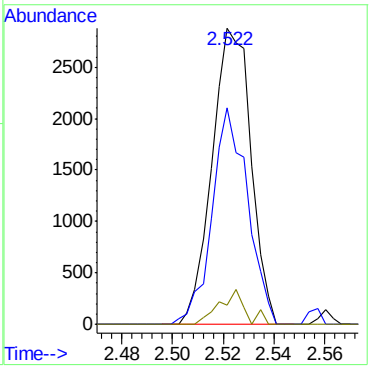


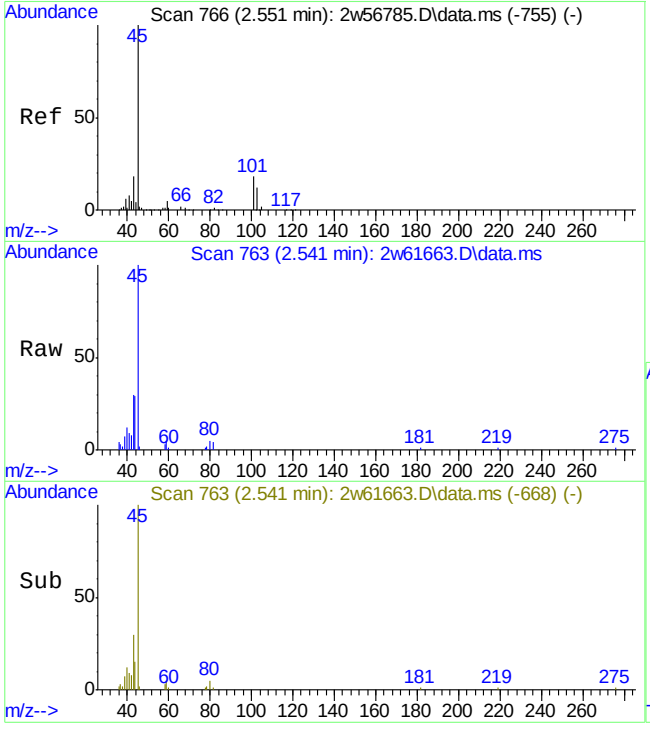



#21
TRICHLOROFLUOROMETHANE
Concen: 0.10 PPBV
RT: 2.522 min Scan# 757
Delta R.T. 0.003 min
Lab File: 2w61663.D
Acq: 29 Sep 2022 3:44 pm

Tgt Ion:101 Resp: 3068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.8 | 52.1 | 78.1 |
| 105 | 0.0 | 8.3 | 12.5# |

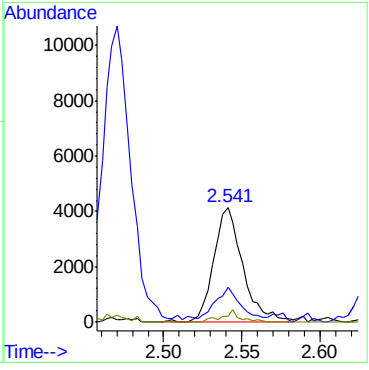


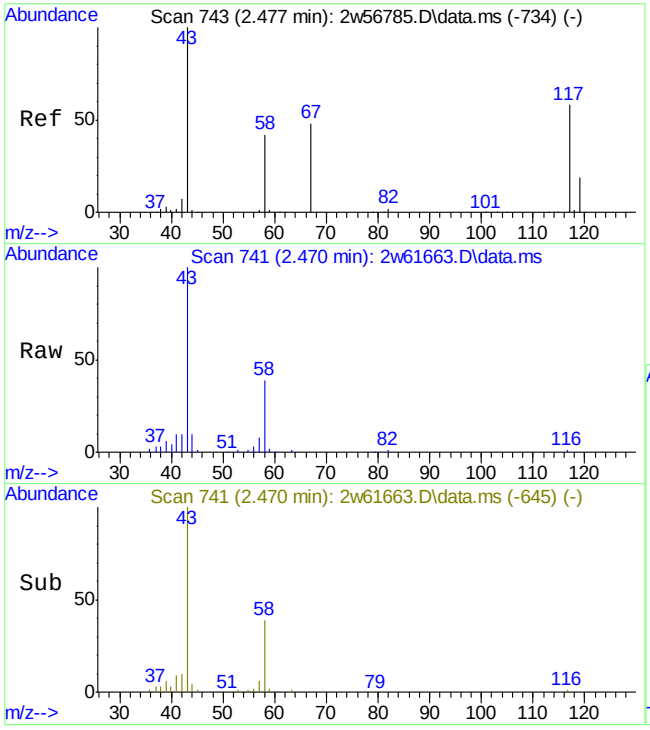




#22
ISOPROPYL ALCOHOL
Concen: 0.22 PPBV
RT: 2.541 min Scan# 763
Delta R.T. 0.006 min
Lab File: 2w61663.D
Acq: 29 Sep 2022 3:44 pm

Tgt Ion: 45 Resp: 5422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 23.7 | 17.8 | 26.6 |
| 59 | 0.0 | 3.6 | 5.4# |

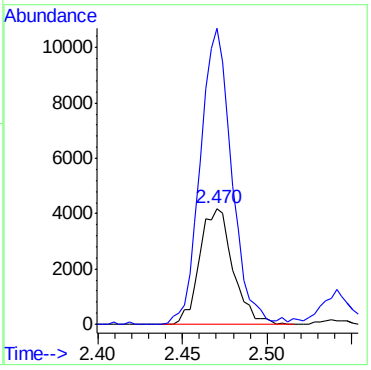


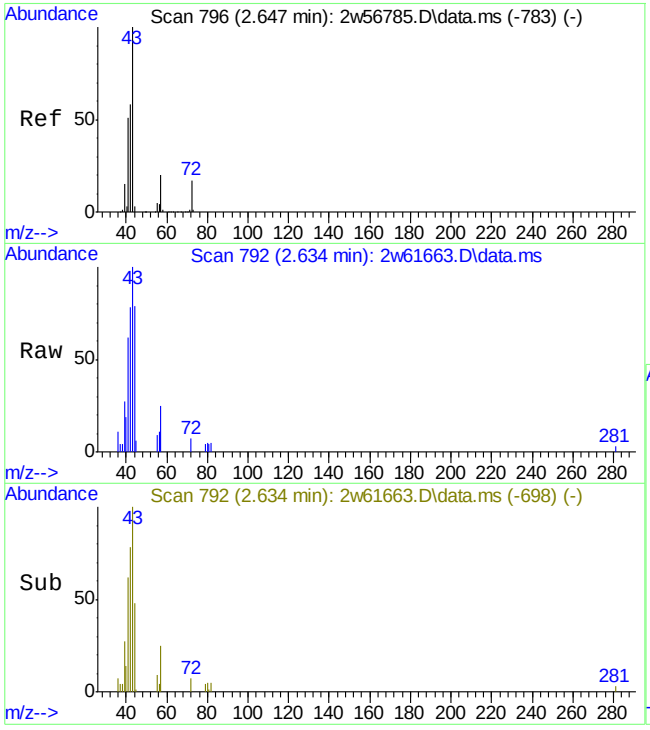



#23
ACETONE
Concen: 0.71 PPBV
RT: 2.470 min Scan# 741
Delta R.T. 0.010 min
Lab File: 2w61663.D
Acq: 29 Sep 2022 3:44 pm

Tgt Ion: 58 Resp: 5656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 245.0 | 229.9 | 344.9 |

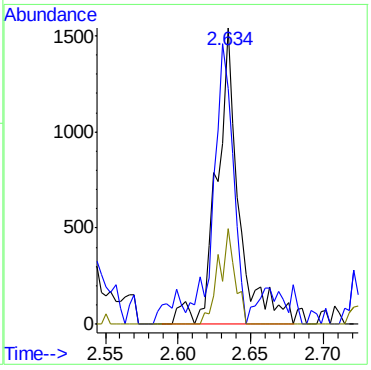


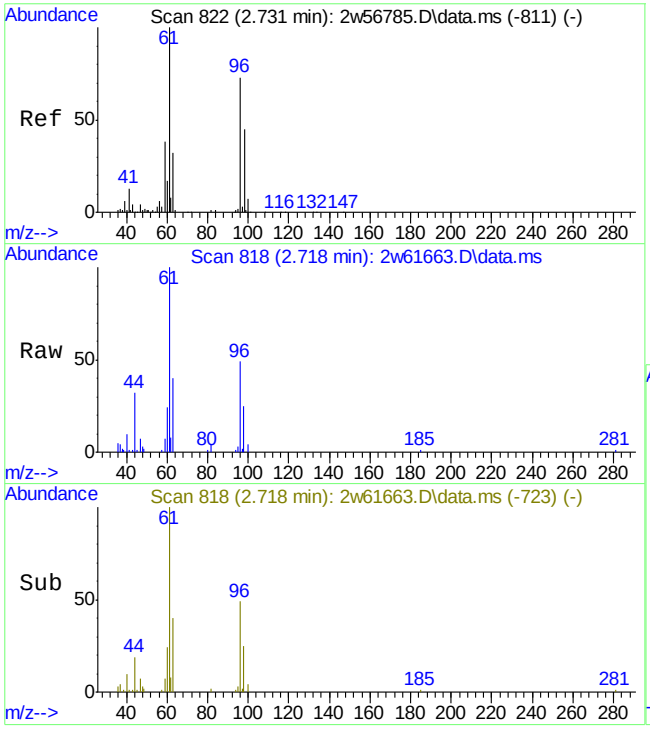




#24
PENTANE
Concen: 0.12 PPBV
RT: 2.634 min Scan# 792
Delta R.T. 0.003 min
Lab File: 2w61663.D
Acq: 29 Sep 2022 3:44 pm

Tgt Ion: 42 Resp: 1639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 41 | 91.5 | 75.7 | 113.5 |
| 57 | 0.0 | 25.0 | 37.6# |

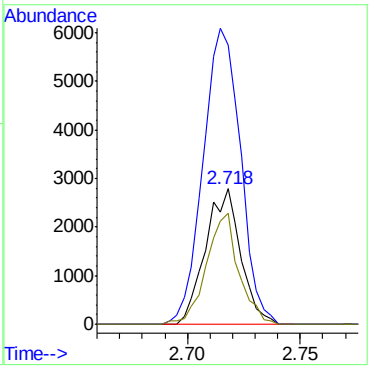


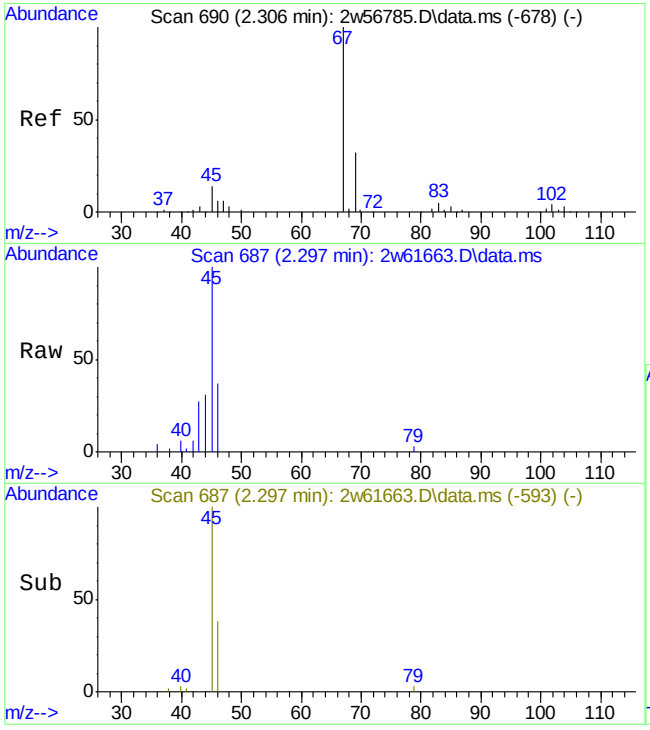



#26
1,1-DICHLOROETHYLENE
Concen: 0.25 PPBV
RT: 2.718 min Scan# 818
Delta R.T. 0.006 min
Lab File: 2w61663.D
Acq: 29 Sep 2022 3:44 pm

Tgt Ion: 96 Resp: 3043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 232.2 | 166.0 | 249.0 |
| 63 | 75.2 | 52.0 | 78.0 |

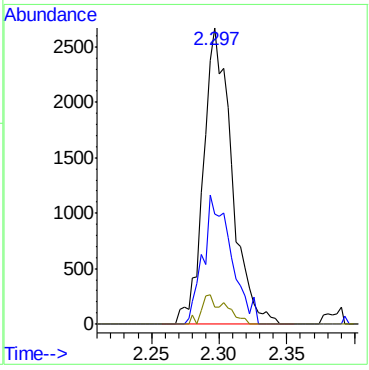


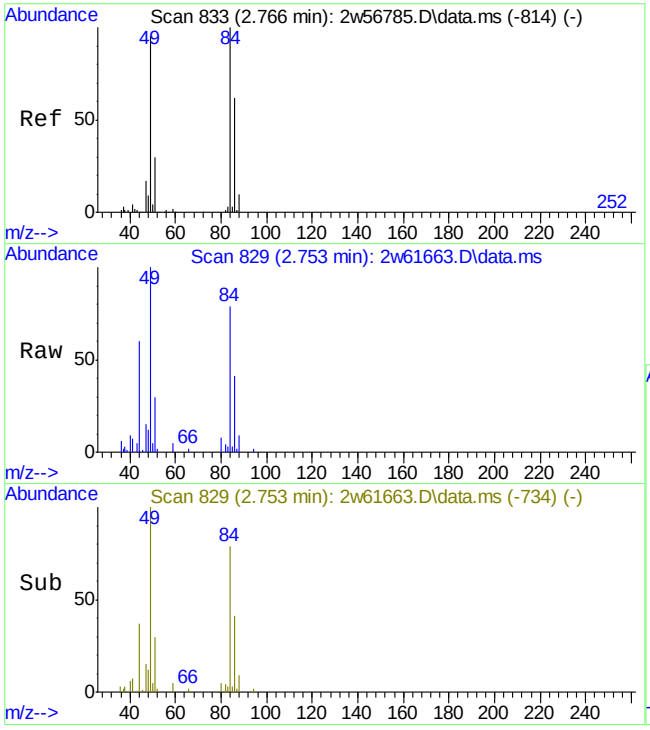




#28
ETHANOL
Concen: 0.78 PPBV
RT: 2.297 min Scan# 687
Delta R.T. 0.003 min
Lab File: 2w61663.D
Acq: 29 Sep 2022 3:44 pm

Tgt Ion: 45 Resp: 3866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 43.0 | 33.4 | 50.2 |
| 42 | 0.0 | 7.4 | 11.2# |

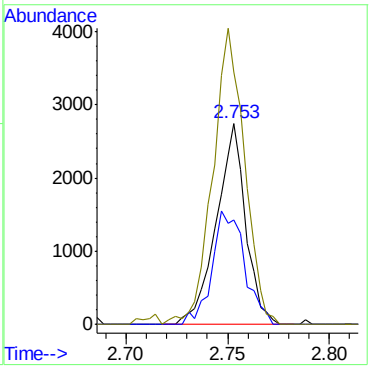


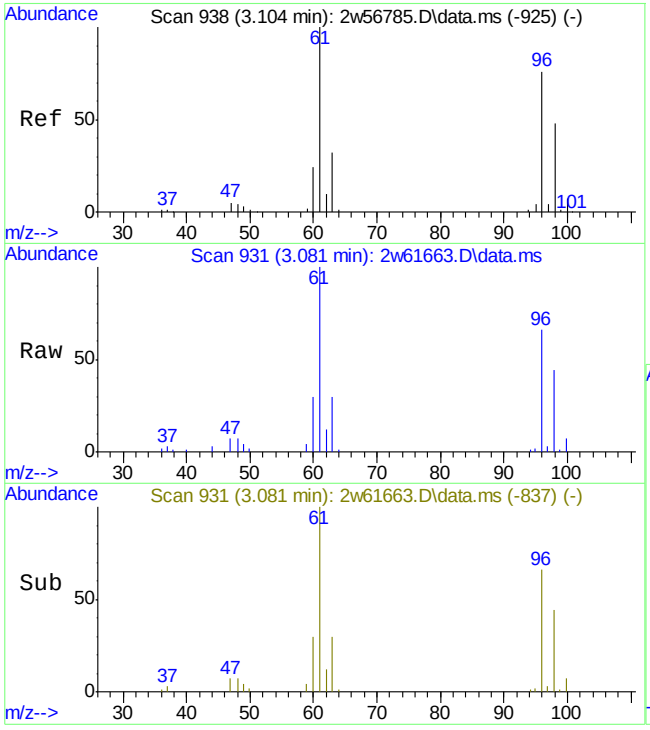



#31
METHYLENE CHLORIDE
Concen: 0.21 PPBV
RT: 2.753 min Scan# 829
Delta R.T. 0.006 min
Lab File: 2w61663.D
Acq: 29 Sep 2022 3:44 pm

Tgt Ion: 84 Resp: 2751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 62.8 | 51.3 | 76.9 |
| 49 | 162.6 | 133.3 | 199.9 |

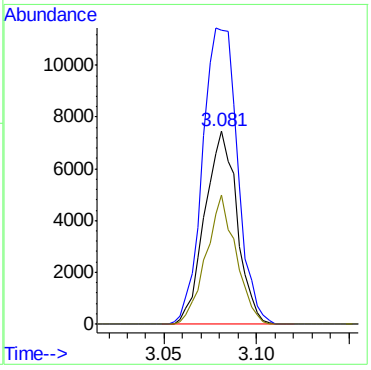


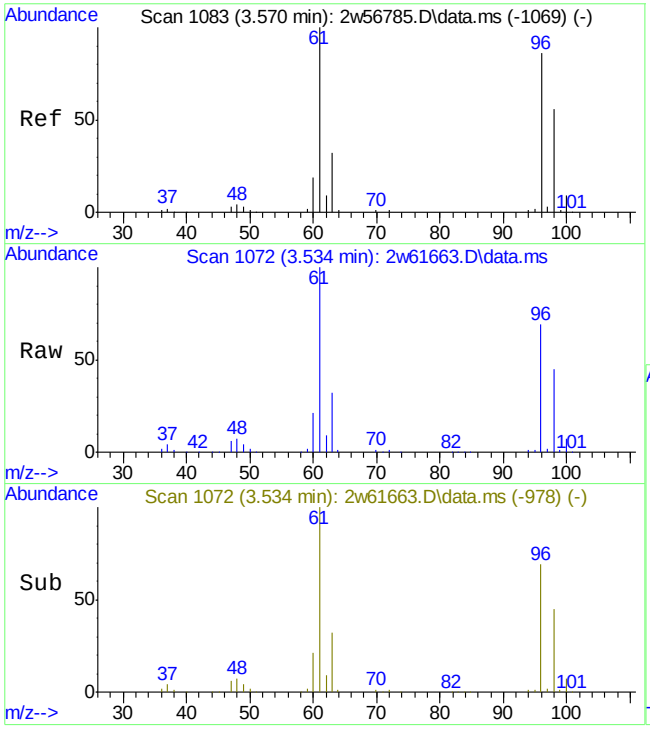




#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.90 PPBV
RT: 3.081 min Scan# 931
Delta R.T. 0.003 min
Lab File: 2w61663.D
Acq: 29 Sep 2022 3:44 pm

Tgt Ion: 96 Resp: 9024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 166.3 | 121.8 | 182.8 |
| 98 | 62.0 | 51.4 | 77.0 |

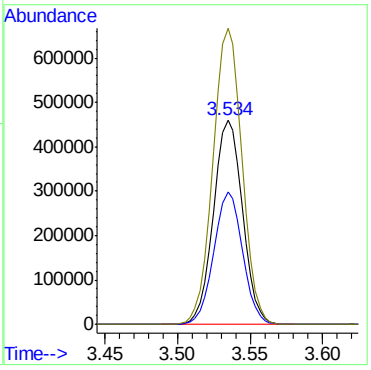


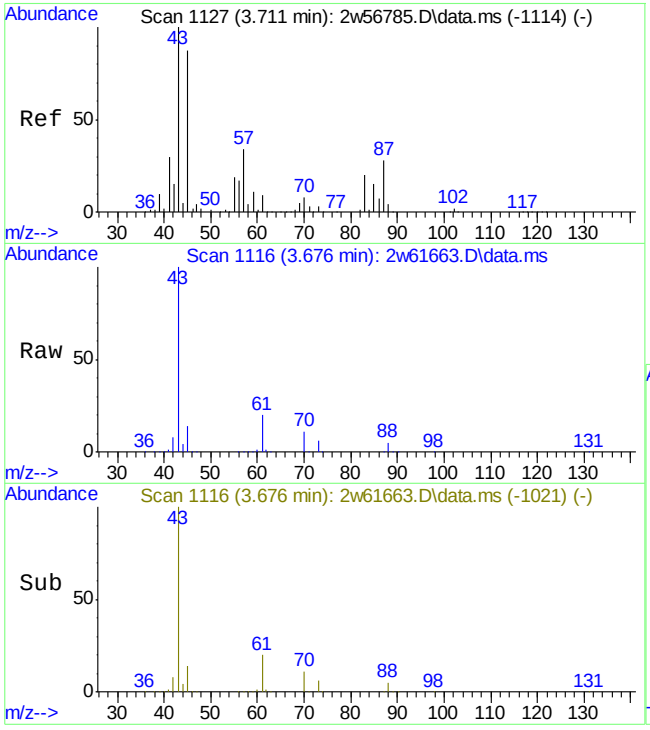



#42
CIS-1,2-DICHLOROETHENE
Concen: 59.68 PPBV
RT: 3.534 min Scan# 1072
Delta R.T. 0.003 min
Lab File: 2w61663.D
Acq: 29 Sep 2022 3:44 pm

Tgt Ion: 96 Resp: 642103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 64.1 | 51.0 | 76.6 |
| 61 | 144.8 | 109.5 | 164.3 |

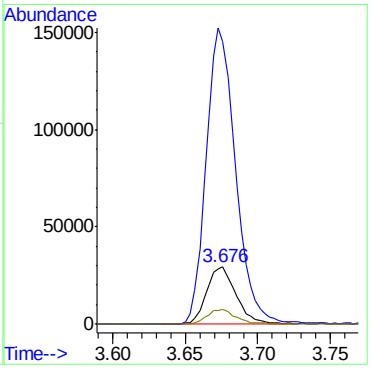


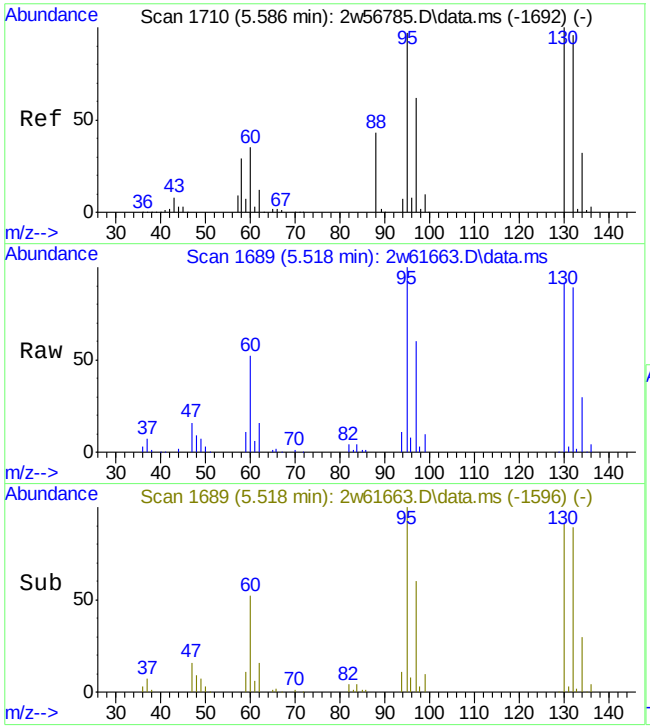




#44
ETHYL ACETATE
Concen: 11.46 PPBV
RT: 3.676 min Scan# 1116
Delta R.T. 0.006 min
Lab File: 2w61663.D
Acq: 29 Sep 2022 3:44 pm

Tgt Ion: 61 Resp: 41116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 524.2 | 1054.2 | 1581.2# |
| 88 | 25.2 | 34.4 | 51.6# |

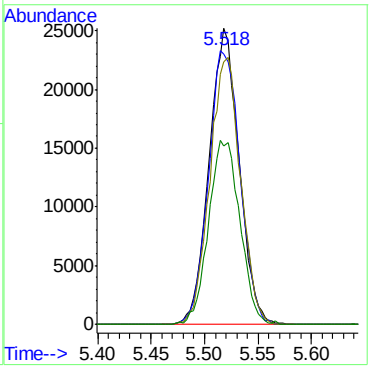


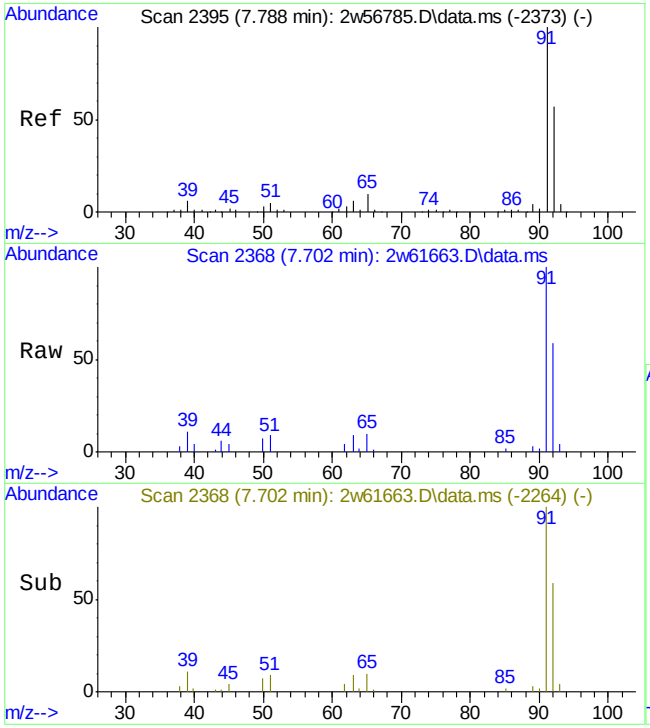



#55
TRICHLOROETHENE
Concen: 3.60 PPBV
RT: 5.518 min Scan# 1689
Delta R.T. -0.000 min
Lab File: 2w61663.D
Acq: 29 Sep 2022 3:44 pm

Tgt Ion: 95 Resp: 48543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 97.4 | 82.8 | 124.2 |
| 132 | 92.6 | 79.3 | 118.9 |
| 97 | 65.1 | 52.0 | 78.0 |

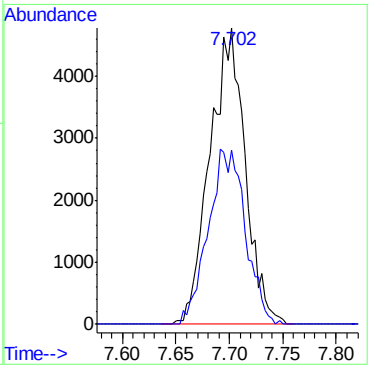


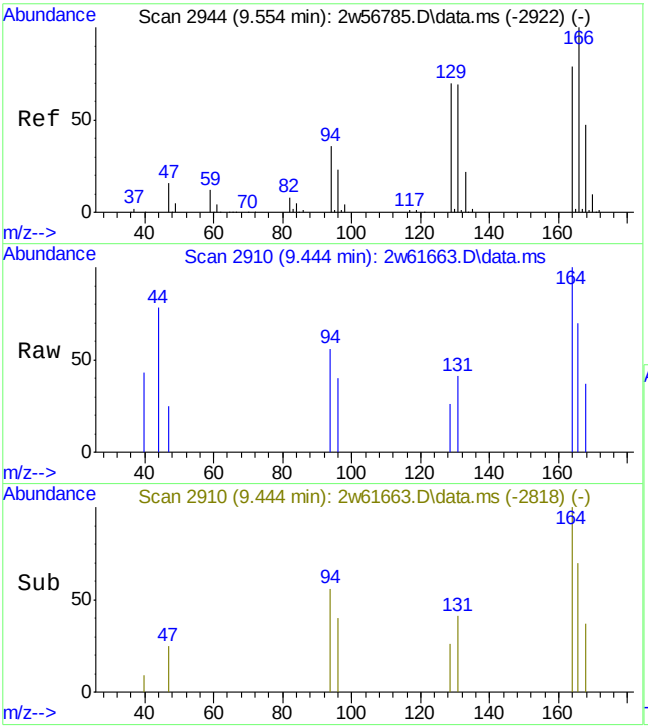




#66
TOLUENE
Concen: 0.28 PPBV
RT: 7.702 min Scan# 2368
Delta R.T. 0.003 min
Lab File: 2w61663.D
Acq: 29 Sep 2022 3:44 pm

Tgt Ion: 91 Resp: 10876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 62.2 | 39.3 | 79.3 |

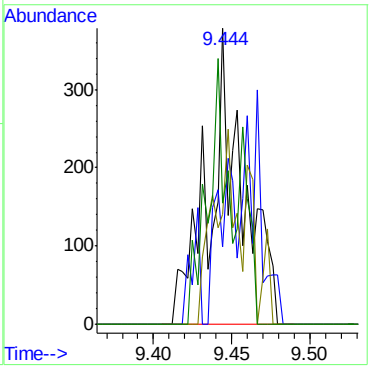





#72
TETRACHLOROETHENE
Concen: 0.04 PPBV
RT: 9.444 min Scan# 2910
Delta R.T. -0.003 min
Lab File: 2w61663.D
Acq: 29 Sep 2022 3:44 pm

Tgt Ion:164 Resp: 558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 129 | 0.0 | 73.6 | 110.4# |
| 168 | 0.0 | 48.6 | 72.8# |
| 131 | 0.0 | 71.4 | 107.2# |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26155.D
Acq On : 30 Sep 2022 4:00 am
Operator : thomash
Sample : jd52620-7
Misc : MS62557,V6W1111,50,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 03 08:44:04 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

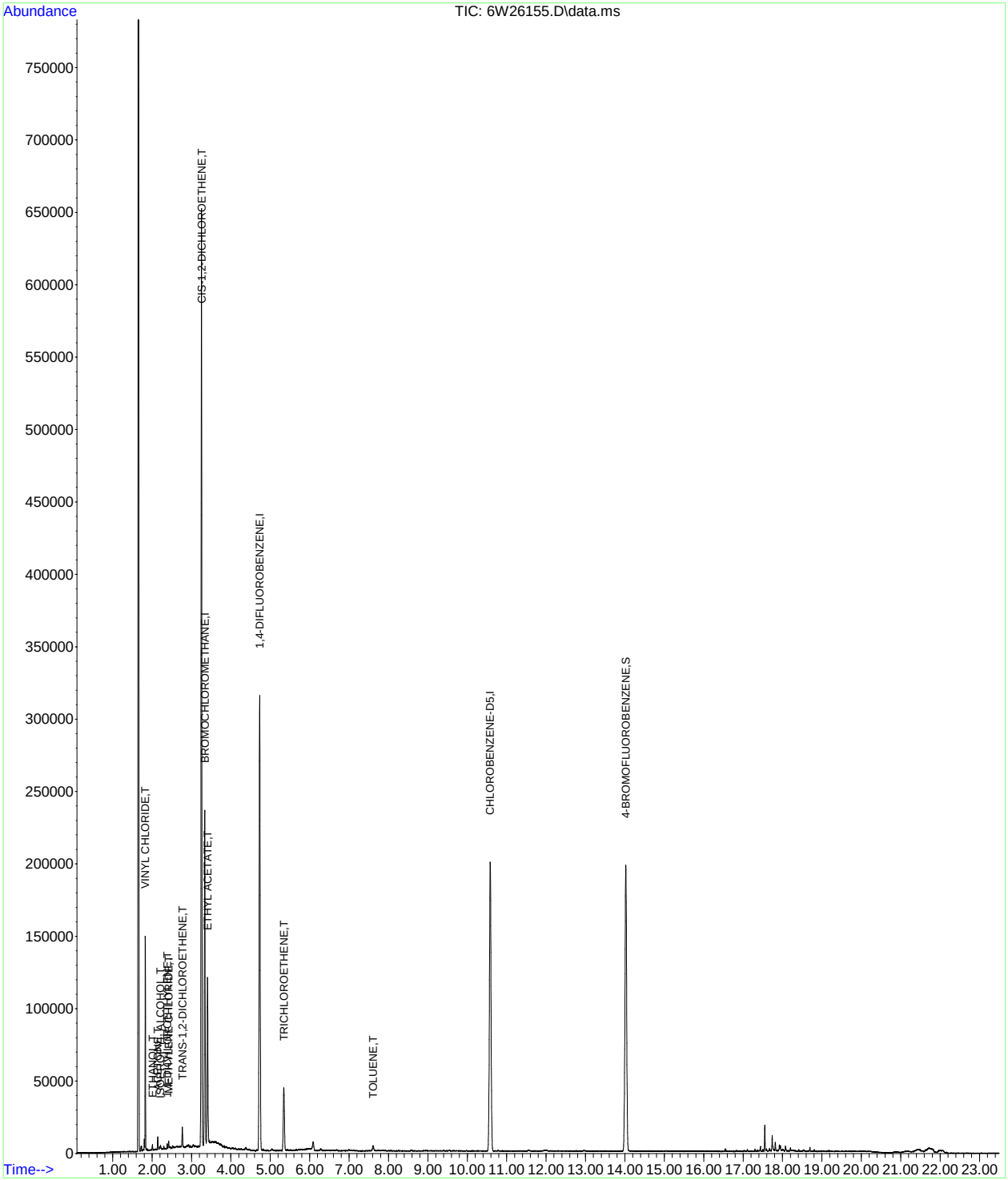
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.339 | 128 | 36402 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.731 | 114 | 214214 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.579 | 117 | 162470 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.023 | 95 | 113707 | 9.58 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 11) VINYL CHLORIDE | 1.827 | 62 | 67155 | 9.59 | PPBV | 100 |
| 22) ISOPROPYL ALCOHOL | 2.213 | 45 | 1937 | 0.13 | PPBV # | 63 |
| 23) ACETONE | 2.146 | 58 | 1655 | 0.48 | PPBV | 73 |
| 26) 1,1-DICHLOROETHYLENE | 2.387 | 96 | 715 | 0.13 | PPBV # | 50 |
| 28) ETHANOL | 2.011 | 45 | 1708 | 0.46 | PPBV # | 97 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 1111 | 0.19 | PPBV # | 74 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 2971 | 0.50 | PPBV # | 77 |
| 42) CIS-1,2-DICHLOROETHENE | 3.255 | 96 | 187192 | 28.34 | PPBV # | 79 |
| 44) ETHYL ACETATE | 3.409 | 61 | 13316 | 5.58 | PPBV # | 12 |
| 55) TRICHLOROETHENE | 5.345 | 95 | 15673 | 1.75 | PPBV | 86 |
| 66) TOLUENE | 7.609 | 91 | 3396 | 0.17 | PPBV | 97 |

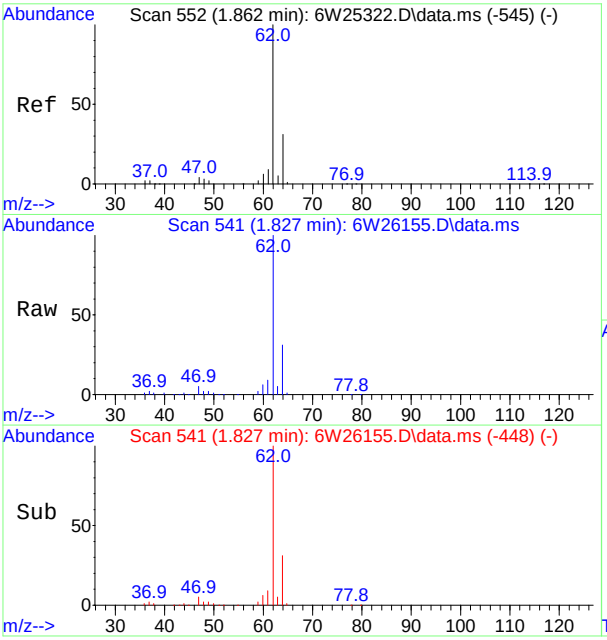
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26155.D
Acq On : 30 Sep 2022 4:00 am
Operator : thomash
Sample : jd52620-7
Misc : MS62557,V6W1111,50,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 03 08:44:04 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

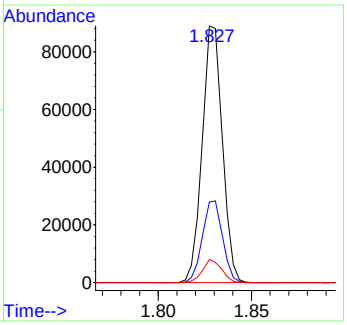


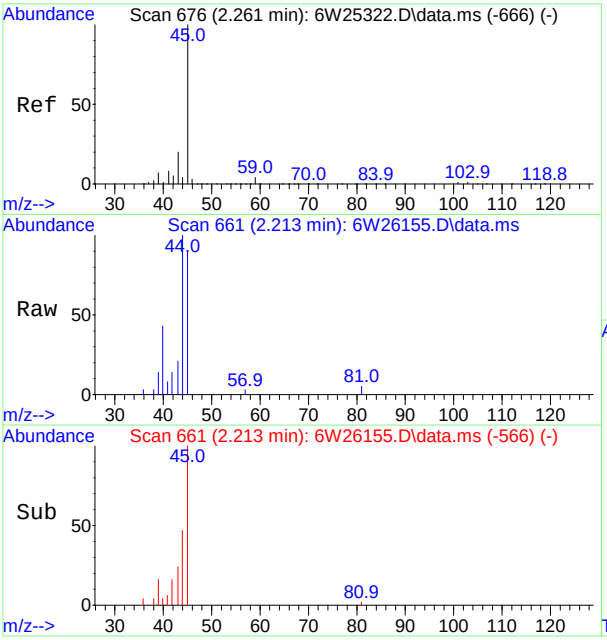



#11
VINYL CHLORIDE
Concen: 9.59 PPBV
RT: 1.827 min Scan# 541
Delta R.T. 0.000 min
Lab File: 6W26155.D
Acq: 30 Sep 2022 4:00 am

Tgt Ion: 62 Resp: 67155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.9 | 25.7 | 38.5 |
| 61 | 8.6 | 6.7 | 10.1 |

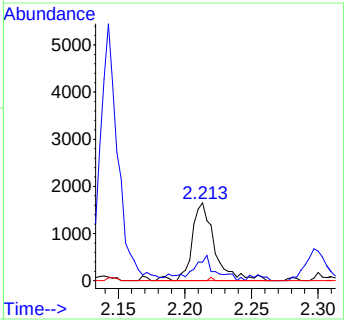


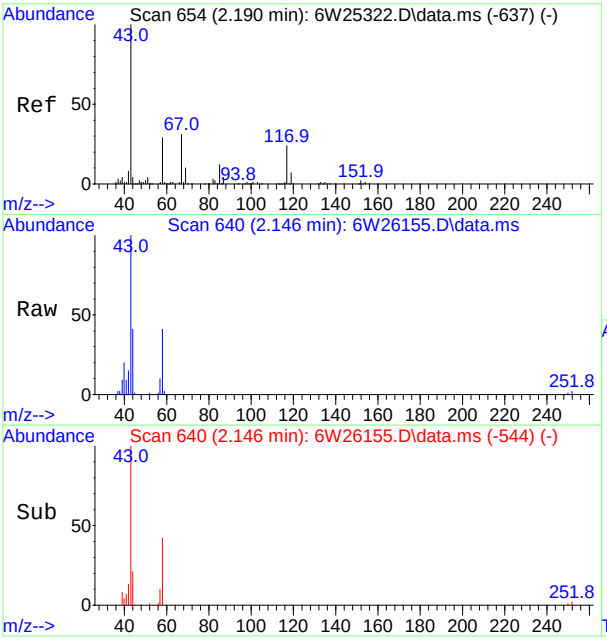




#22
ISOPROPYL ALCOHOL
Concen: 0.13 PPBV
RT: 2.213 min Scan# 661
Delta R.T. 0.007 min
Lab File: 6W26155.D
Acq: 30 Sep 2022 4:00 am

Tgt Ion: 45 Resp: 1937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 0.0 | 15.5 | 23.3# |
| 59 | 0.0 | 4.1 | 6.1# |

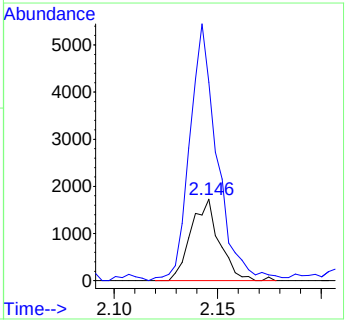


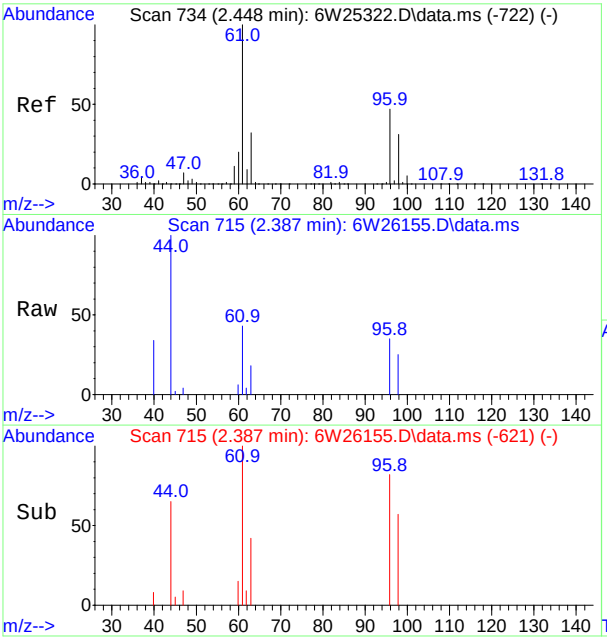



#23
ACETONE
Concen: 0.48 PPBV
RT: 2.146 min Scan# 640
Delta R.T. 0.010 min
Lab File: 6W26155.D
Acq: 30 Sep 2022 4:00 am

Tgt Ion: 58 Resp: 1655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 291.4 | 195.9 | 293.9 |

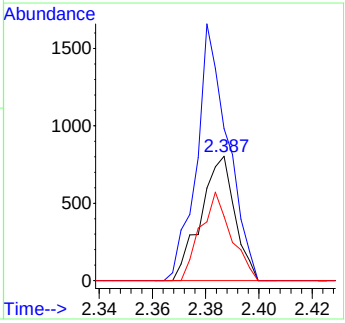


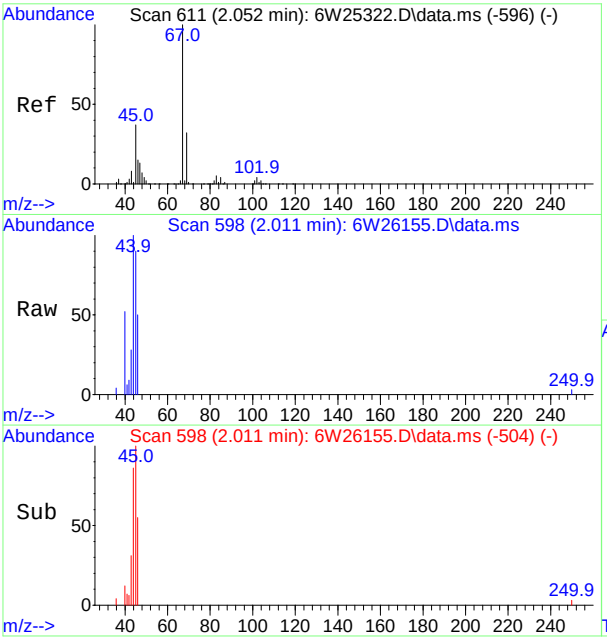




#26
1,1-DICHLOROETHYLENE
Concen: 0.13 PPBV
RT: 2.387 min Scan# 715
Delta R.T. 0.004 min
Lab File: 6W26155.D
Acq: 30 Sep 2022 4:00 am

Tgt Ion: 96 Resp: 715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 189.2 | 109.4 | 164.2# |
| 63 | 0.0 | 36.2 | 54.2# |

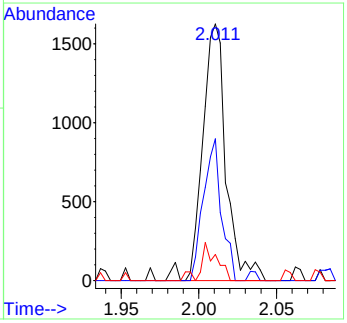


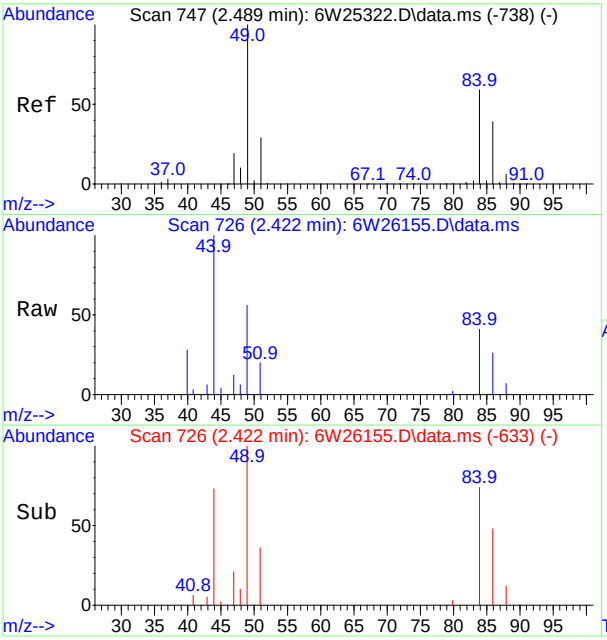



#28
ETHANOL
Concen: 0.46 PPBV
RT: 2.011 min Scan# 598
Delta R.T. 0.004 min
Lab File: 6W26155.D
Acq: 30 Sep 2022 4:00 am

Tgt Ion: 45 Resp: 1708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 42.7 | 34.1 | 51.1 |
| 42 | 0.0 | 6.1 | 9.1# |

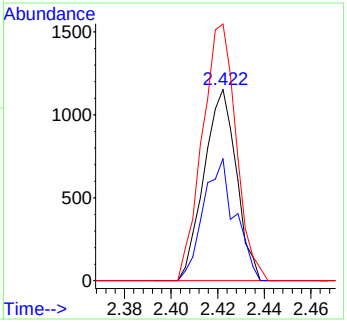


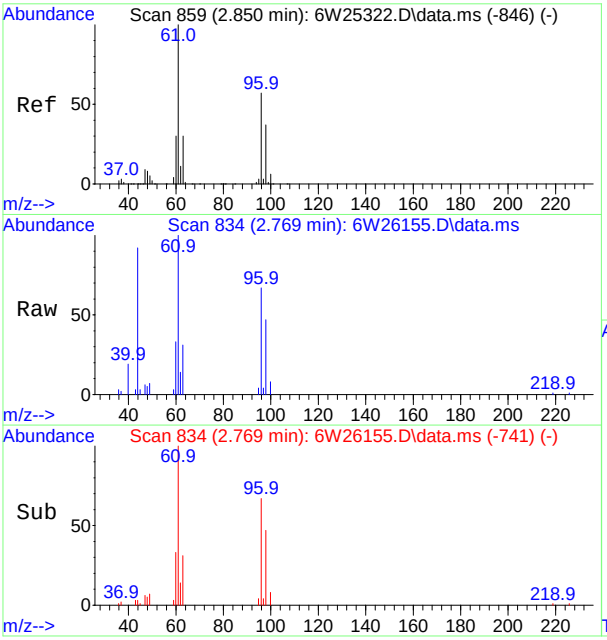




#31
METHYLENE CHLORIDE
Concen: 0.19 PPBV
RT: 2.422 min Scan# 726
Delta R.T. 0.000 min
Lab File: 6W26155.D
Acq: 30 Sep 2022 4:00 am

Tgt Ion: 84 Resp: 1111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 62.7 | 50.9 | 76.3 |
| 49 | 140.3 | 78.6 | 118.0# |

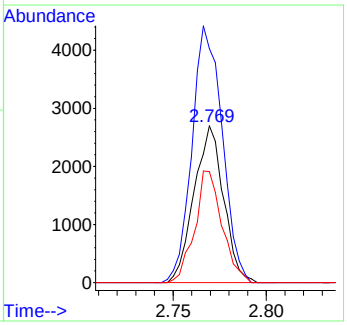


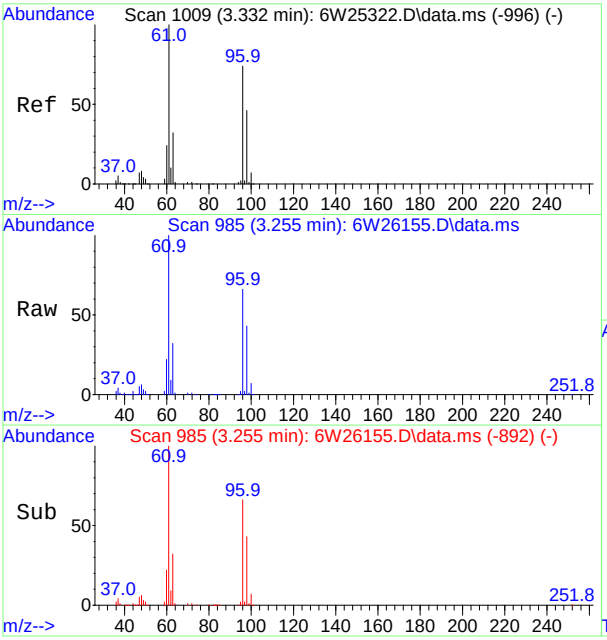



#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.50 PPBV
RT: 2.769 min Scan# 834
Delta R.T. 0.000 min
Lab File: 6W26155.D
Acq: 30 Sep 2022 4:00 am

Tgt Ion: 96 Resp: 2971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 167.7 | 104.3 | 156.5# |
| 98 | 66.0 | 50.6 | 76.0 |

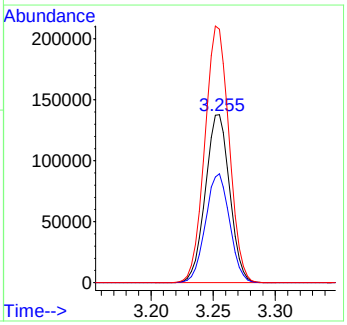


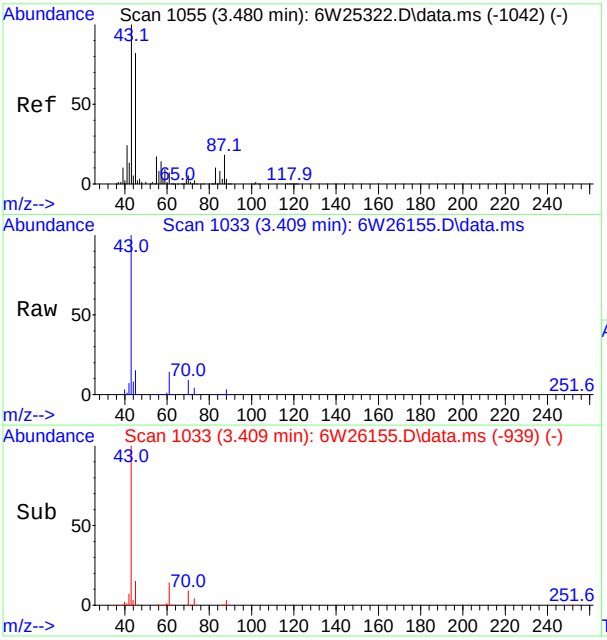




#42
CIS-1,2-DICHLOROETHENE
Concen: 28.34 PPBV
RT: 3.255 min Scan# 985
Delta R.T. 0.000 min
Lab File: 6W26155.D
Acq: 30 Sep 2022 4:00 am

Tgt Ion: 96 Resp: 187192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 64.4 | 51.1 | 76.7 |
| 61 | 152.6 | 93.9 | 140.9# |

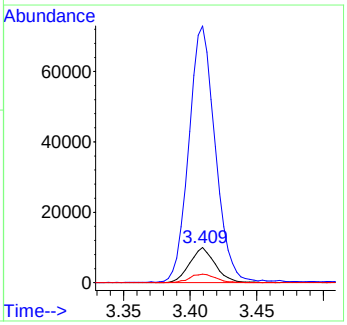


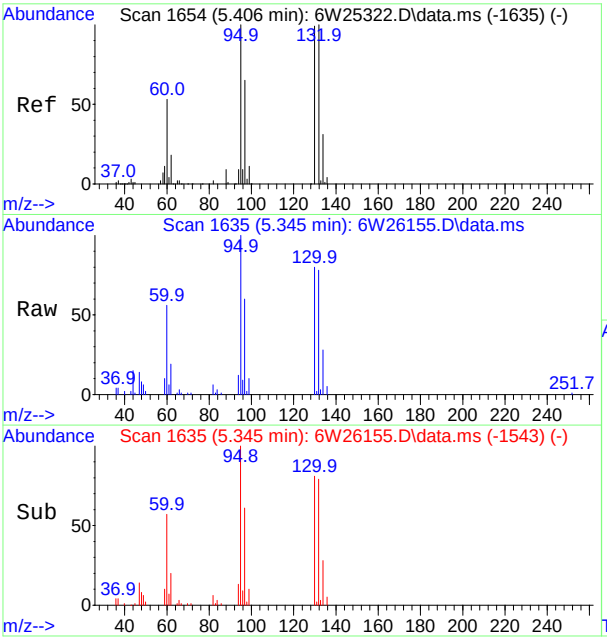



#44
ETHYL ACETATE
Concen: 5.58 PPBV
RT: 3.409 min Scan# 1033
Delta R.T. 0.004 min
Lab File: 6W26155.D
Acq: 30 Sep 2022 4:00 am

Tgt Ion: 61 Resp: 13316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 763.3 | 986.2 | 1479.2# |
| 88 | 24.8 | 38.8 | 58.2# |

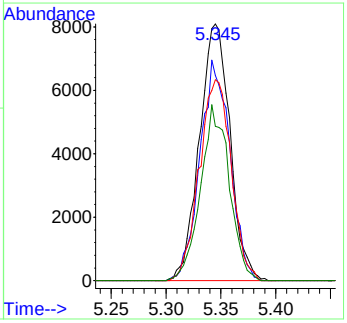


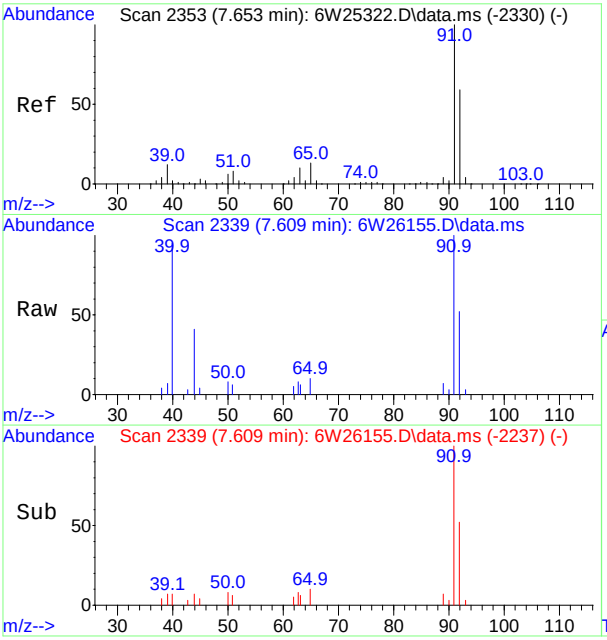




#55
TRICHLOROETHENE
Concen: 1.75 PPBV
RT: 5.345 min Scan# 1635
Delta R.T. -0.003 min
Lab File: 6W26155.D
Acq: 30 Sep 2022 4:00 am

Tgt Ion: 95 Resp: 15673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 84.2 | 83.2 | 124.8 |
| 132 | 81.7 | 79.8 | 119.6 |
| 97 | 64.0 | 51.3 | 76.9 |

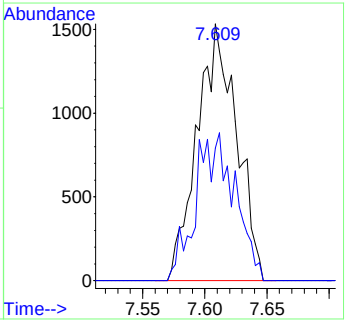





#66
TOLUENE
Concen: 0.17 PPBV
RT: 7.609 min Scan# 2339
Delta R.T. -0.003 min
Lab File: 6W26155.D
Acq: 30 Sep 2022 4:00 am

Tgt Ion: 91 Resp: 3396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.0 | 38.9 | 78.9 |




7.1.11

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61664.D
Acq On : 29 Sep 2022 4:16 pm
Operator : thomash
Sample : jd52620-8
Misc : MS62557,V2w2736,100,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 03 12:34:59 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

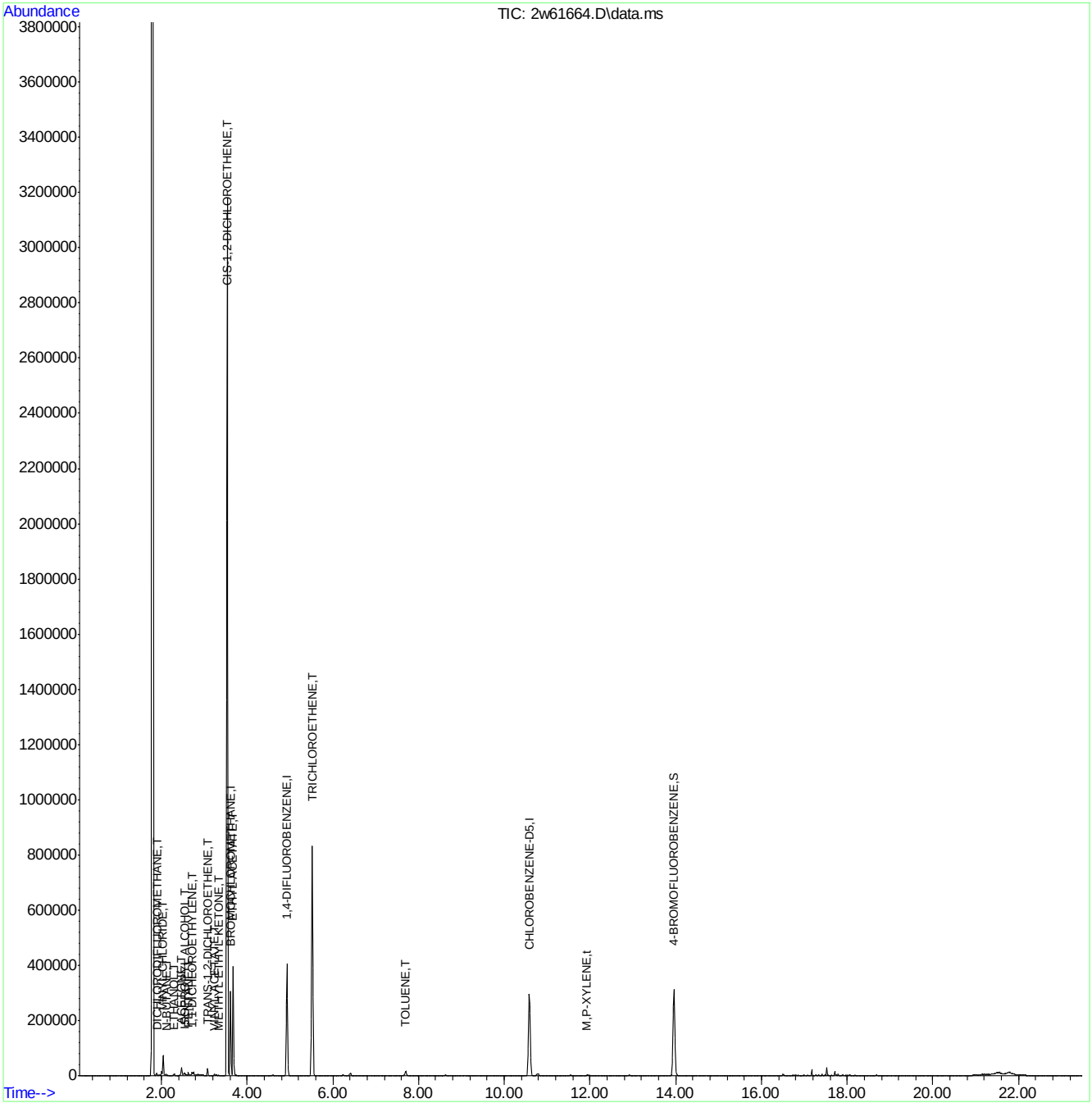
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.612 | 128 | 61526 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 318261 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 264554 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 184581 | 10.48 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 6) DICHLORODIFLUOROMETHANE | 1.901 | 85 | 2989 | 0.10 | PPBV | # | 83 |
| 11) VINYL CHLORIDE | 2.039 | 62 | 59133 | 5.52 | PPBV | | 98 |
| 13) N-BUTANE | 2.107 | 43 | 2066 | 0.14 | PPBV | # | 64 |
| 22) ISOPROPYL ALCOHOL | 2.538 | 45 | 5472 | 0.22 | PPBV | # | 77 |
| 23) ACETONE | 2.467 | 58 | 8773 | 1.08 | PPBV | # | 63 |
| 24) PENTANE | 2.631 | 42 | 2292 | 0.16 | PPBV | | 98 |
| 26) 1,1-DICHLOROETHYLENE | 2.711 | 96 | 2009 | 0.16 | PPBV | | 99 |
| 28) ETHANOL | 2.293 | 45 | 3852 | 0.77 | PPBV | # | 88 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 5801 | 0.57 | PPBV | | 95 |
| 39) VINYL ACETATE | 3.223 | 86 | 517 | 0.21 | PPBV | # | 88 |
| 41) METHYL ETHYL KETONE | 3.338 | 72 | 649 | 0.14 | PPBV | # | 72 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 953740 | 87.27 | PPBV | | 95 |
| 44) ETHYL ACETATE | 3.673 | 61 | 61396 | 16.85 | PPBV | # | 1 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 289120 | 21.43 | PPBV | | 95 |
| 66) TOLUENE | 7.695 | 91 | 16242 | 0.42 | PPBV | | 98 |
| 80) M,P-XYLENE | 11.923 | 91 | 4038 | 0.12 | PPBV | # | 76 |

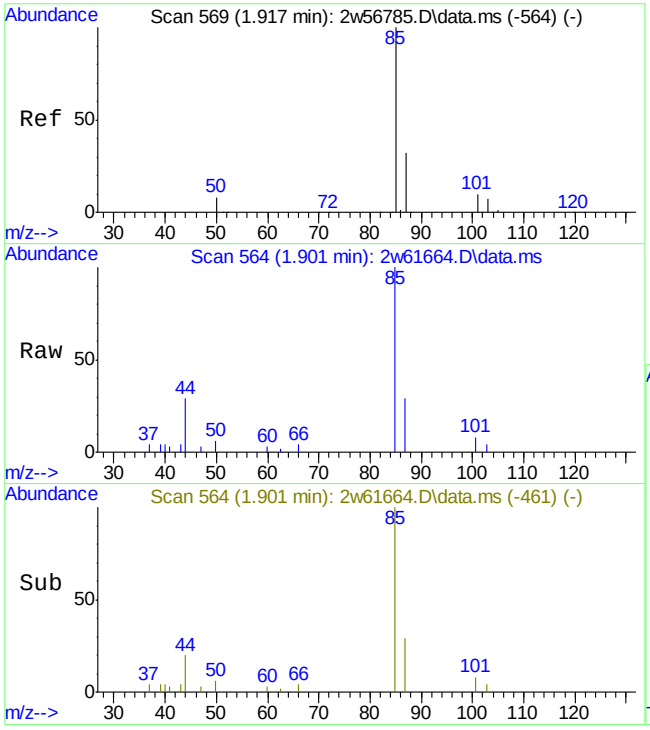
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61664.D
Acq On : 29 Sep 2022 4:16 pm
Operator : thomash
Sample : jd52620-8
Misc : MS62557,V2w2736,100,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 03 12:34:59 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

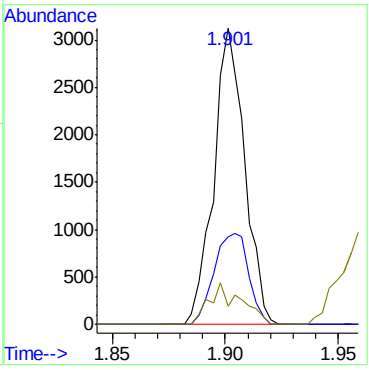


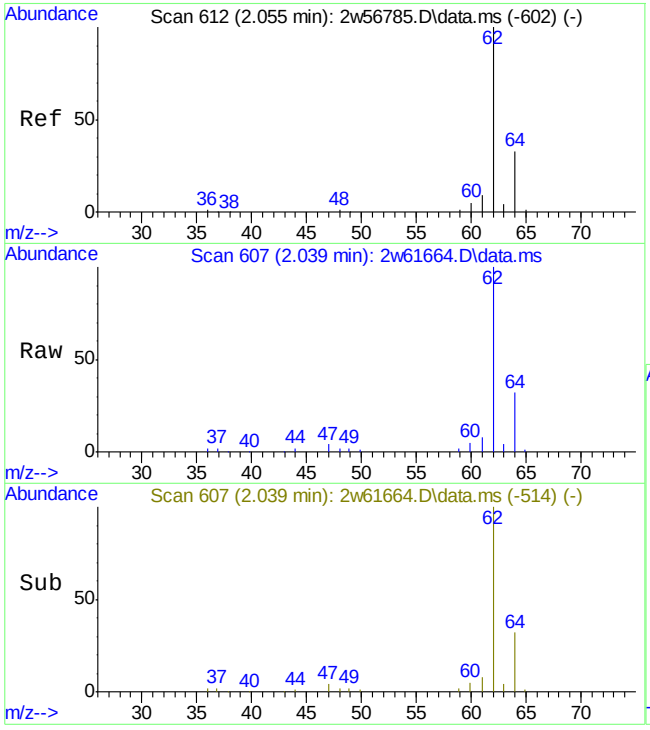



#6
DICHLORODIFLUOROMETHANE
Concen: 0.10 PPBV
RT: 1.901 min Scan# 564
Delta R.T. -0.000 min
Lab File: 2w61664.D
Acq: 29 Sep 2022 4:16 pm

Tgt Ion: 85 Resp: 2989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.3 | 25.9 | 38.9 |
| 50 | 0.0 | 14.6 | 21.8# |

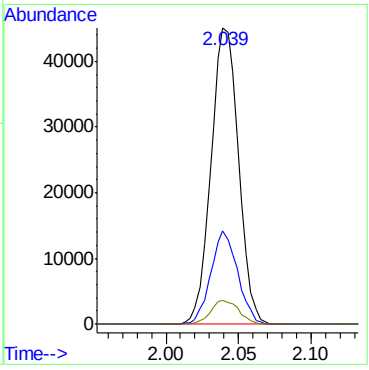


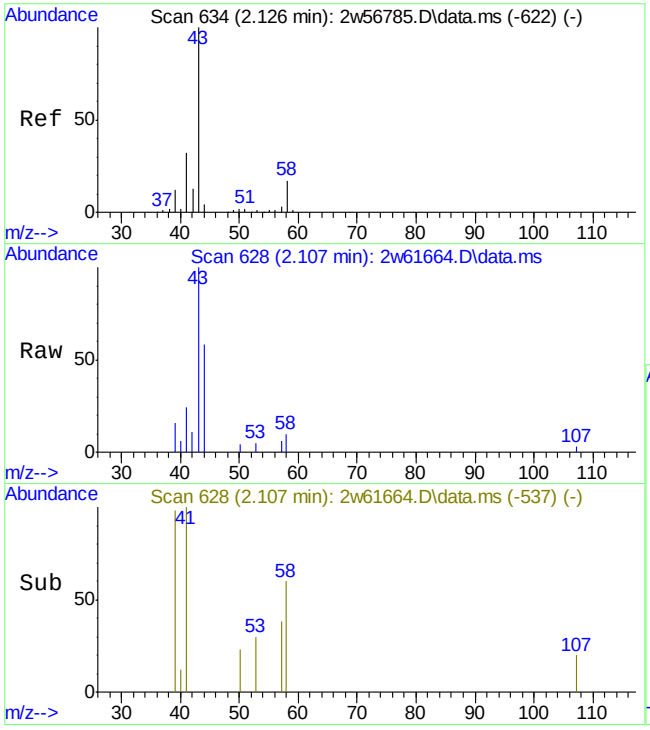




#11
VINYL CHLORIDE
Concen: 5.52 PPBV
RT: 2.039 min Scan# 607
Delta R.T. -0.000 min
Lab File: 2w61664.D
Acq: 29 Sep 2022 4:16 pm

Tgt Ion: 62 Resp: 59133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.6 | 25.2 | 37.8 |
| 61 | 8.2 | 7.0 | 10.4 |

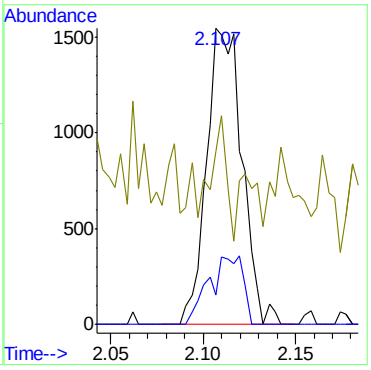


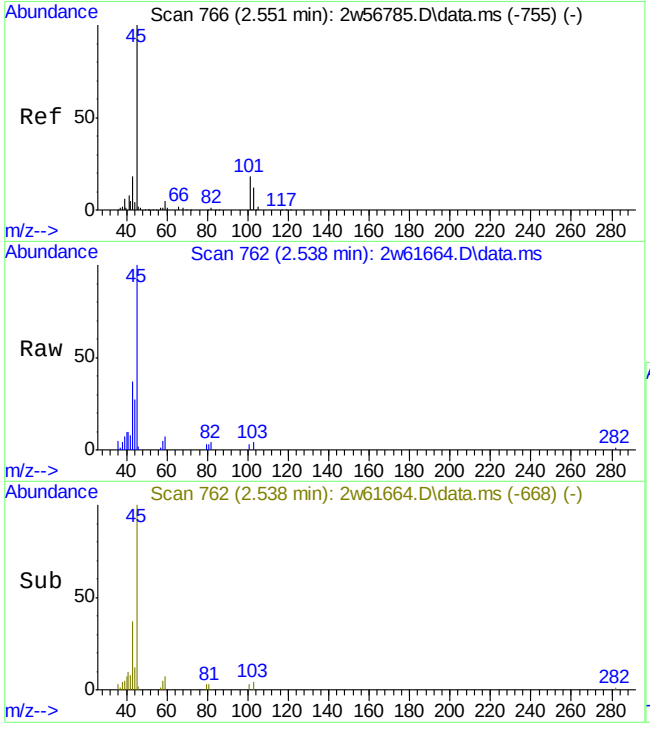



#13
N-BUTANE
Concen: 0.14 PPBV
RT: 2.107 min Scan# 628
Delta R.T. -0.007 min
Lab File: 2w61664.D
Acq: 29 Sep 2022 4:16 pm

Tgt Ion: 43 Resp: 2066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 15.0 | 22.4# |
| 44 | 0.0 | 3.4 | 5.2# |

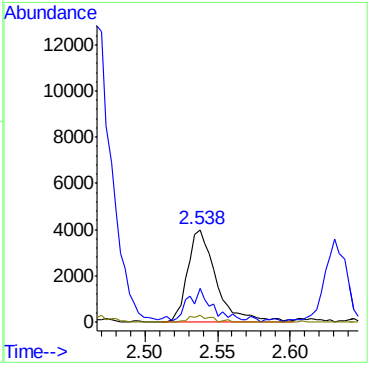


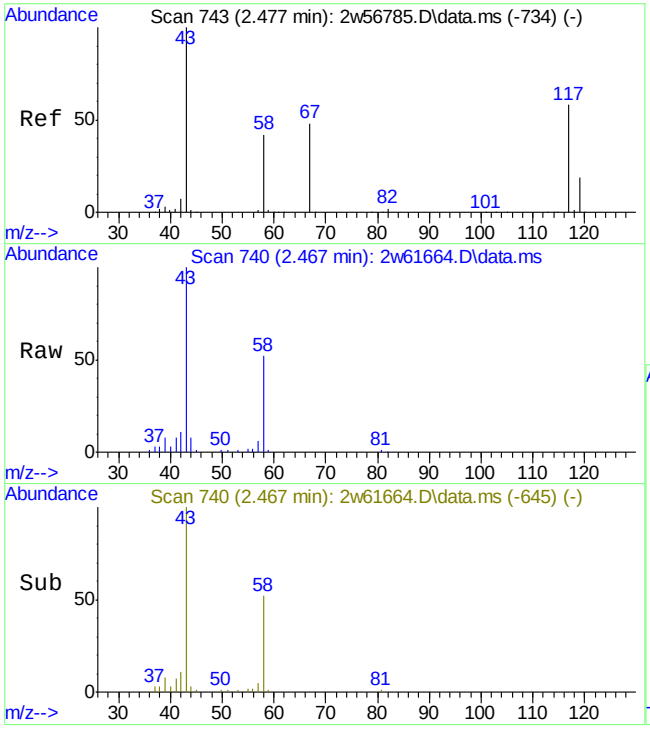




#22
ISOPROPYL ALCOHOL
Concen: 0.22 PPBV
RT: 2.538 min Scan# 762
Delta R.T. 0.003 min
Lab File: 2w61664.D
Acq: 29 Sep 2022 4:16 pm

Tgt Ion: 45 Resp: 5472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 34.3 | 17.8 | 26.6# |
| 59 | 0.0 | 3.6 | 5.4# |

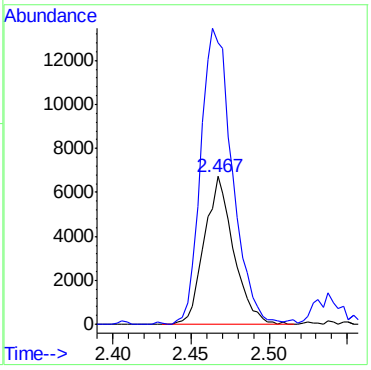


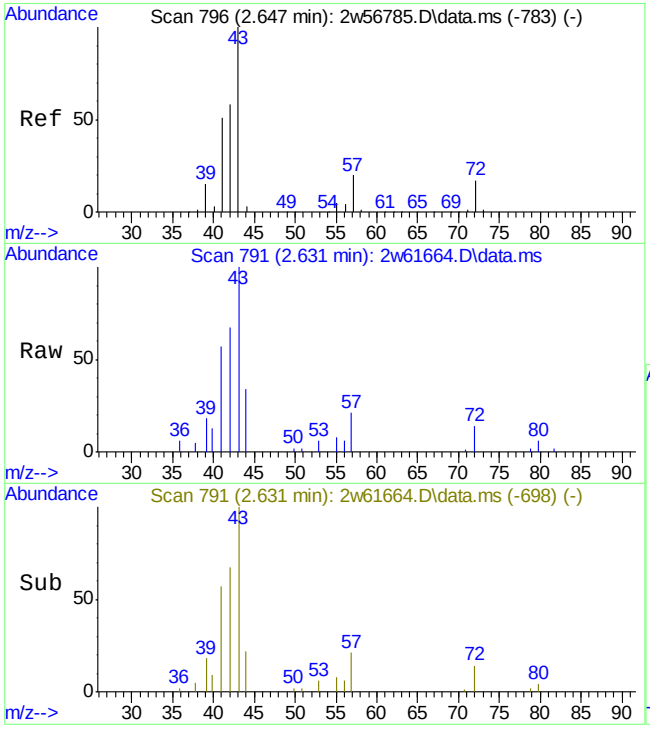



#23
ACETONE
Concen: 1.08 PPBV
RT: 2.467 min Scan# 740
Delta R.T. 0.006 min
Lab File: 2w61664.D
Acq: 29 Sep 2022 4:16 pm

Tgt Ion: 58 Resp: 8773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 216.5 | 229.9 | 344.9# |

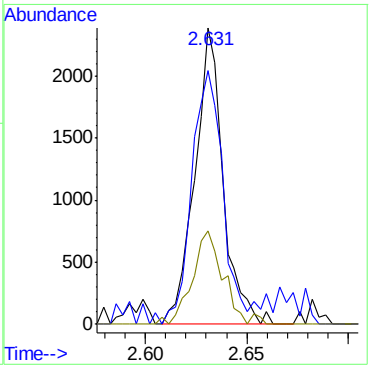


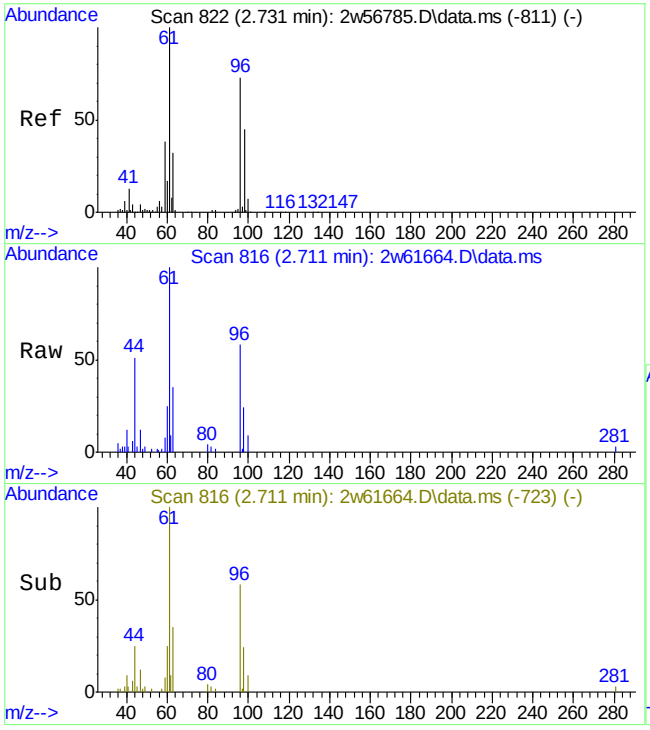




#24
PENTANE
Concen: 0.16 PPBV
RT: 2.631 min Scan# 791
Delta R.T. -0.000 min
Lab File: 2w61664.D
Acq: 29 Sep 2022 4:16 pm

Tgt Ion: 42 Resp: 2292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 41 | 95.9 | 75.7 | 113.5 |
| 57 | 34.5 | 25.0 | 37.6 |

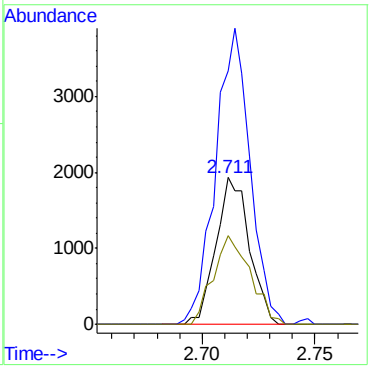


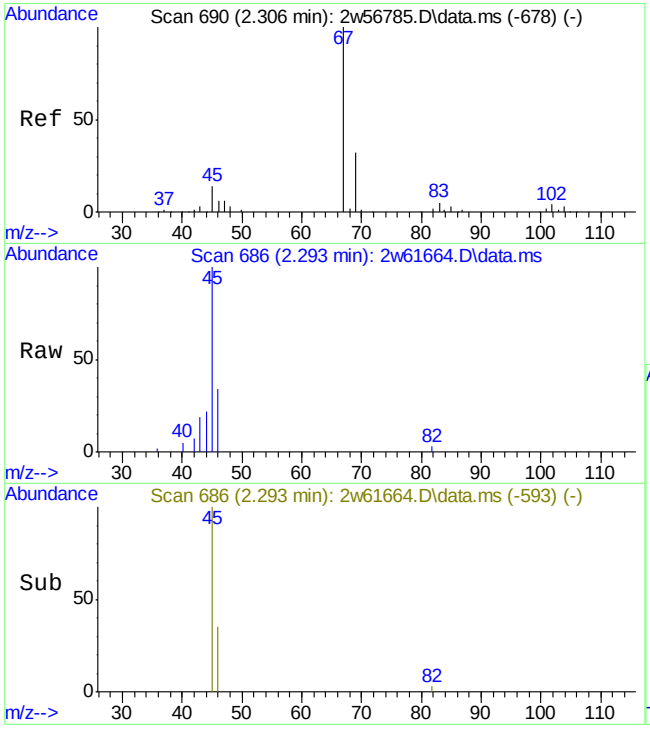



#26
1,1-DICHLOROETHYLENE
Concen: 0.16 PPBV
RT: 2.711 min Scan# 816
Delta R.T. -0.000 min
Lab File: 2w61664.D
Acq: 29 Sep 2022 4:16 pm

Tgt Ion: 96 Resp: 2009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 208.7 | 166.0 | 249.0 |
| 63 | 66.5 | 52.0 | 78.0 |

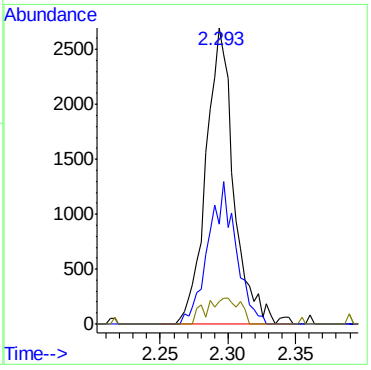


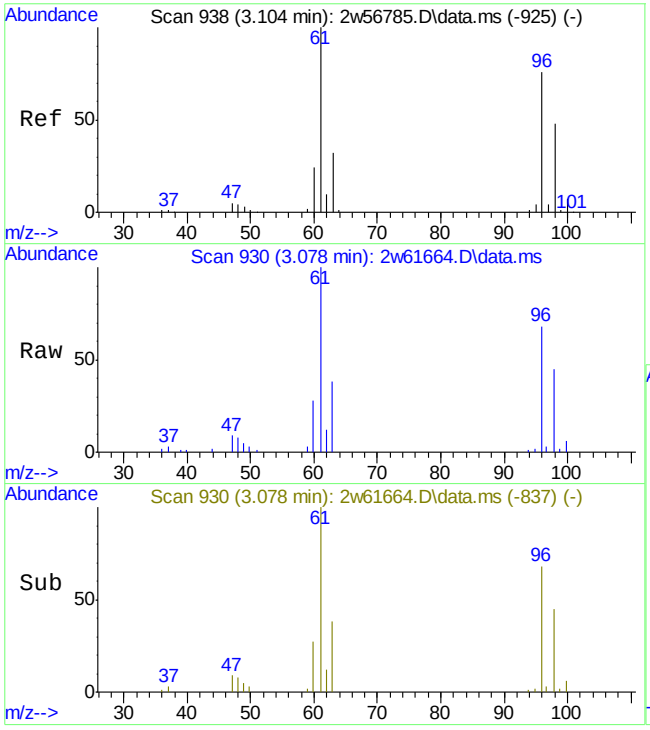




#28
ETHANOL
Concen: 0.77 PPBV
RT: 2.293 min Scan# 686
Delta R.T. -0.000 min
Lab File: 2w61664.D
Acq: 29 Sep 2022 4:16 pm

Tgt Ion: 45 Resp: 3852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 47.8 | 33.4 | 50.2 |
| 42 | 0.0 | 7.4 | 11.2# |

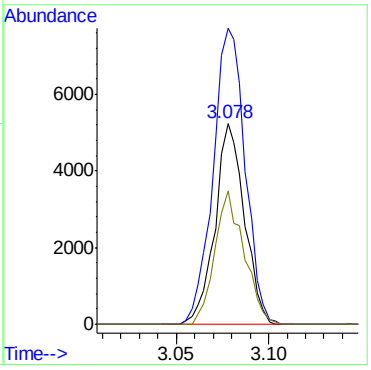


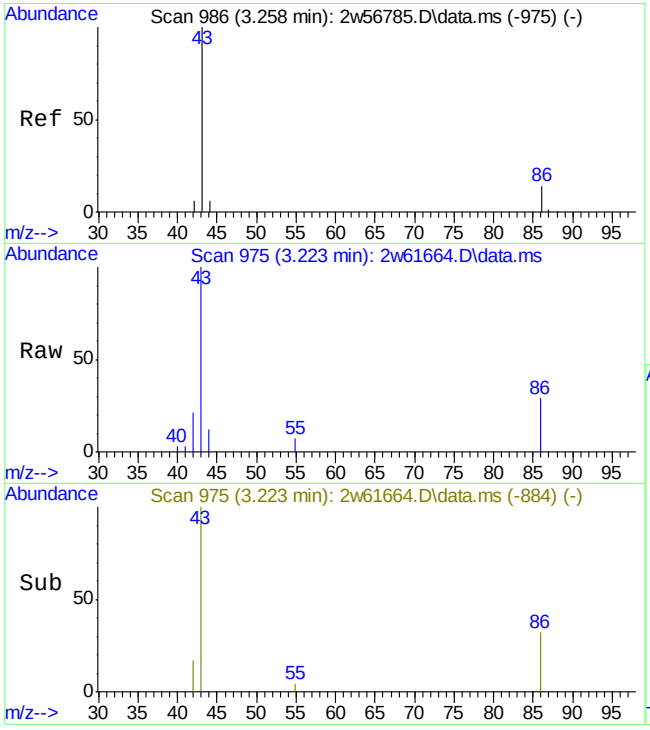



#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.57 PPBV
RT: 3.078 min Scan# 930
Delta R.T. -0.000 min
Lab File: 2w61664.D
Acq: 29 Sep 2022 4:16 pm

Tgt Ion: 96 Resp: 5801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 160.5 | 121.8 | 182.8 |
| 98 | 66.1 | 51.4 | 77.0 |

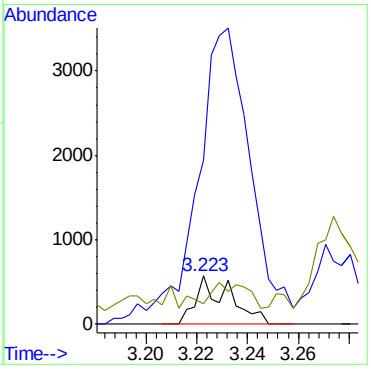


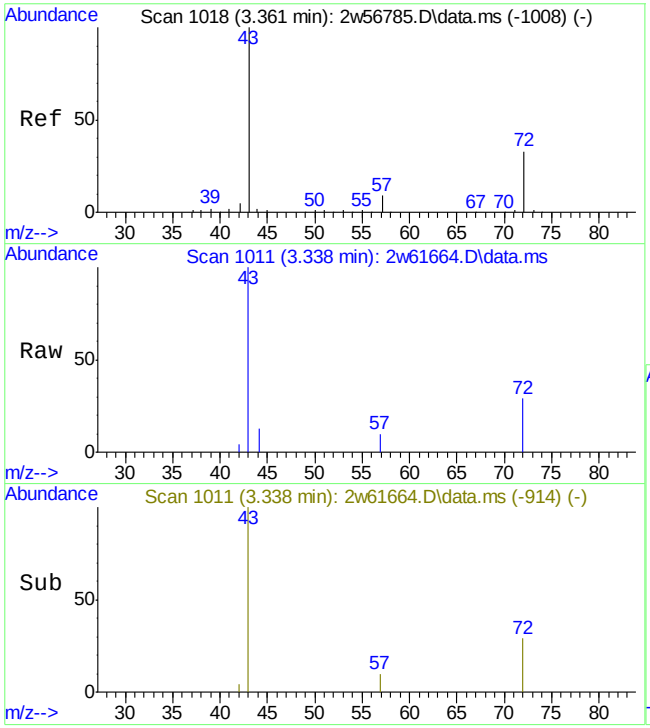




#39
VINYL ACETATE
Concen: 0.21 PPBV
RT: 3.223 min Scan# 975
Delta R.T. -0.007 min
Lab File: 2w61664.D
Acq: 29 Sep 2022 4:16 pm

Tgt Ion: 86 Resp: 517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 86 | 100 | | |
| 43 | 997.3 | 766.9 | 1150.3 |
| 44 | 0.0 | 41.8 | 62.6# |

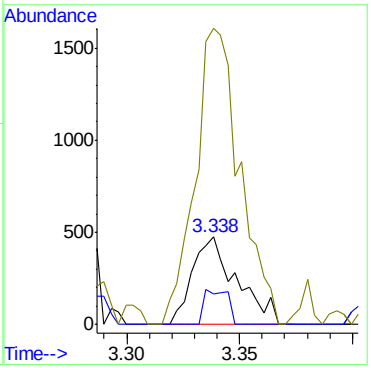


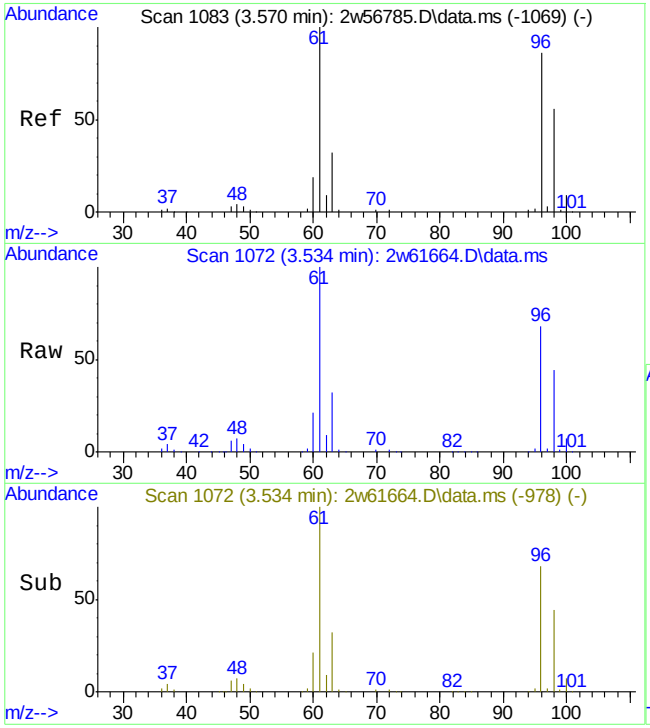



#41
METHYL ETHYL KETONE
Concen: 0.14 PPBV
RT: 3.338 min Scan# 1011
Delta R.T. 0.013 min
Lab File: 2w61664.D
Acq: 29 Sep 2022 4:16 pm

Tgt Ion: 72 Resp: 649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 72 | 100 | | |
| 57 | 0.0 | 29.1 | 43.7# |
| 43 | 341.6 | 321.0 | 481.4 |

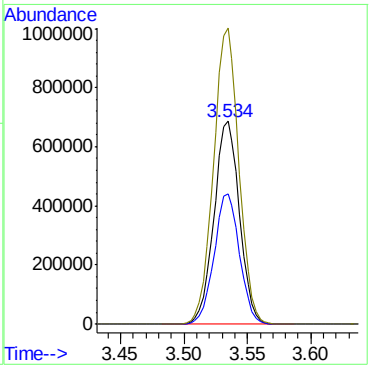


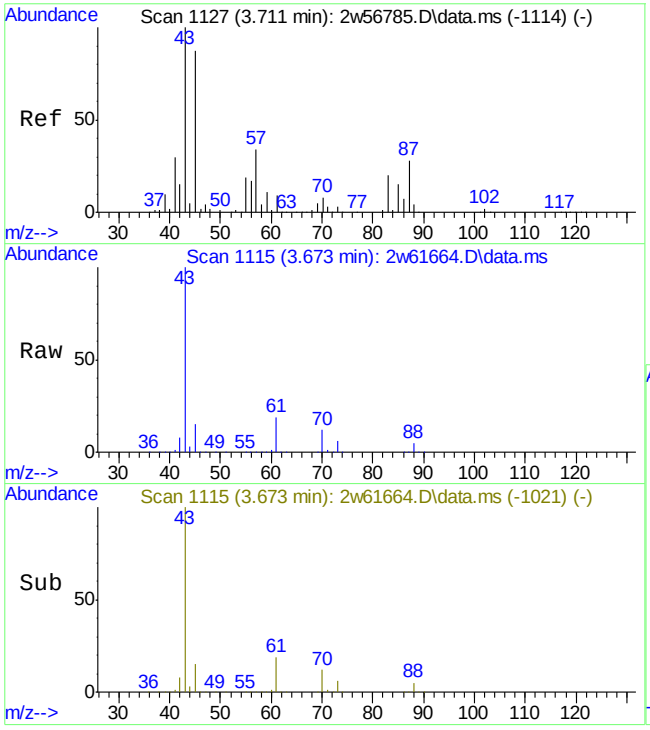




#42
CIS-1,2-DICHLOROETHENE
Concen: 87.27 PPBV
RT: 3.534 min Scan# 1072
Delta R.T. 0.003 min
Lab File: 2w61664.D
Acq: 29 Sep 2022 4:16 pm

Tgt Ion: 96 Resp: 953740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 64.0 | 51.0 | 76.6 |
| 61 | 145.8 | 109.5 | 164.3 |

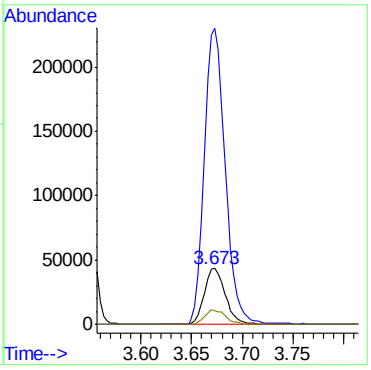


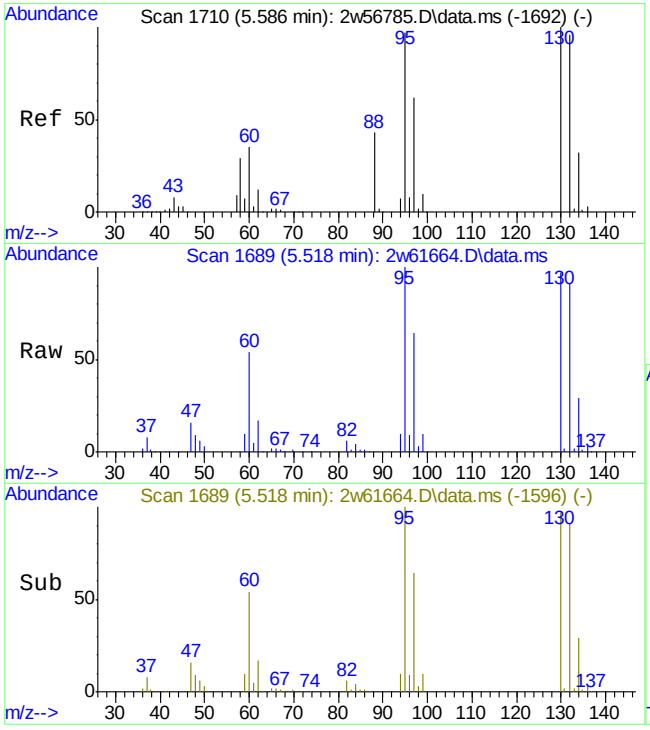



#44
ETHYL ACETATE
Concen: 16.85 PPBV
RT: 3.673 min Scan# 1115
Delta R.T. 0.003 min
Lab File: 2w61664.D
Acq: 29 Sep 2022 4:16 pm

Tgt Ion: 61 Resp: 61396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 532.0 | 1054.2 | 1581.2# |
| 88 | 25.6 | 34.4 | 51.6# |

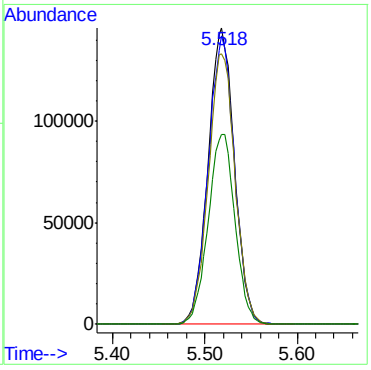


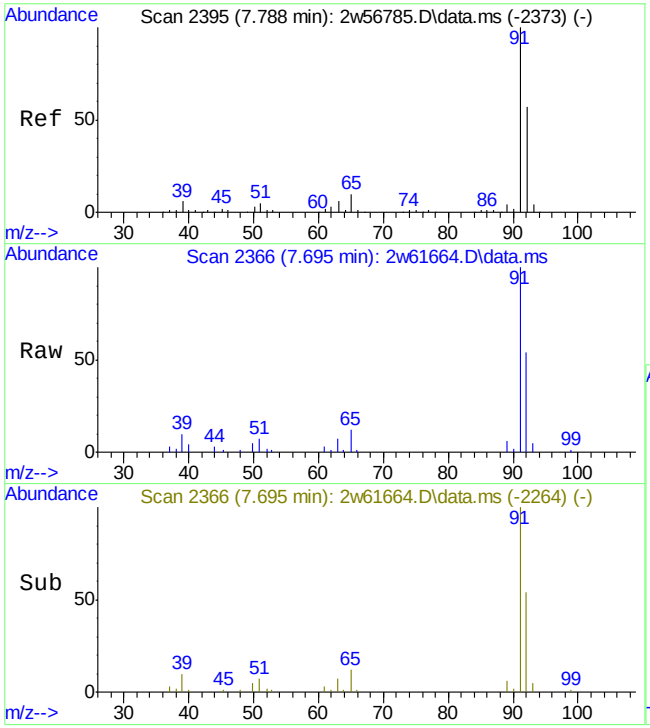




#55
TRICHLOROETHENE
Concen: 21.43 PPBV
RT: 5.518 min Scan# 1689
Delta R.T. -0.000 min
Lab File: 2w61664.D
Acq: 29 Sep 2022 4:16 pm

Tgt Ion: 95 Resp: 289120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 97.1 | 82.8 | 124.2 |
| 132 | 92.6 | 79.3 | 118.9 |
| 97 | 65.2 | 52.0 | 78.0 |

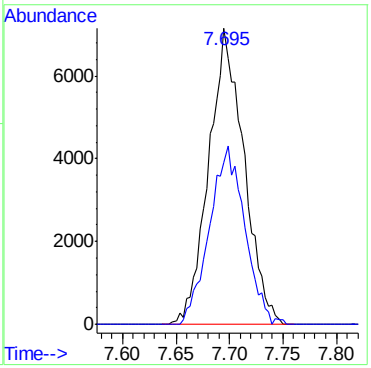


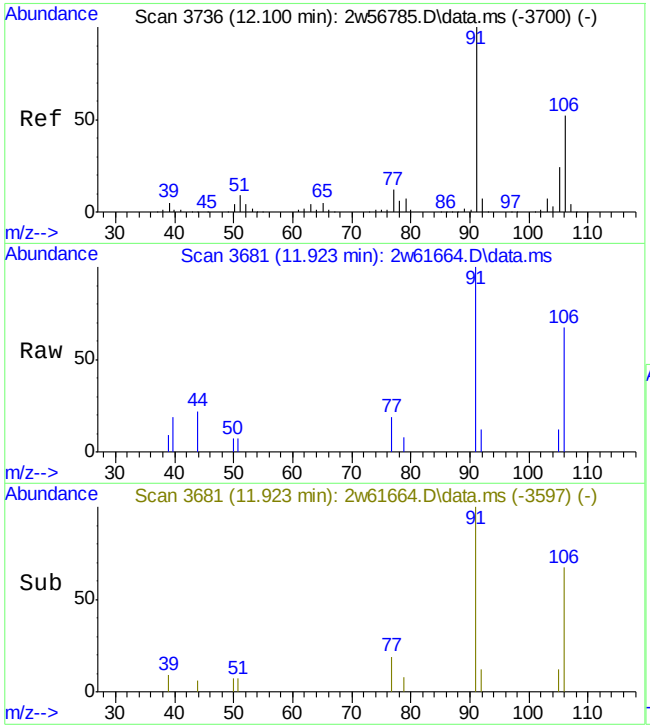



#66
TOLUENE
Concen: 0.42 PPBV
RT: 7.695 min Scan# 2366
Delta R.T. -0.003 min
Lab File: 2w61664.D
Acq: 29 Sep 2022 4:16 pm

Tgt Ion: 91 Resp: 16242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.5 | 39.3 | 79.3 |

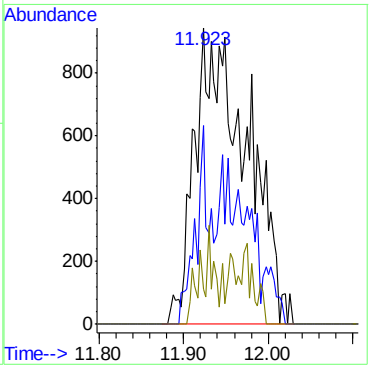



#80
M,P-XYLENE
Concen: 0.12 PPBV
RT: 11.923 min Scan# 3681
Delta R.T. -0.061 min
Lab File: 2w61664.D
Acq: 29 Sep 2022 4:16 pm

Tgt Ion: 91 Resp: 4038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 12.6 | 3.0 | 43.0 |
| 105 | 0.0 | 0.0 | 30.9 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26156.D
Acq On : 30 Sep 2022 4:43 am
Operator : thomash
Sample : jd52620-8
Misc : MS62557,V6W1111,20,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 14:00:53 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

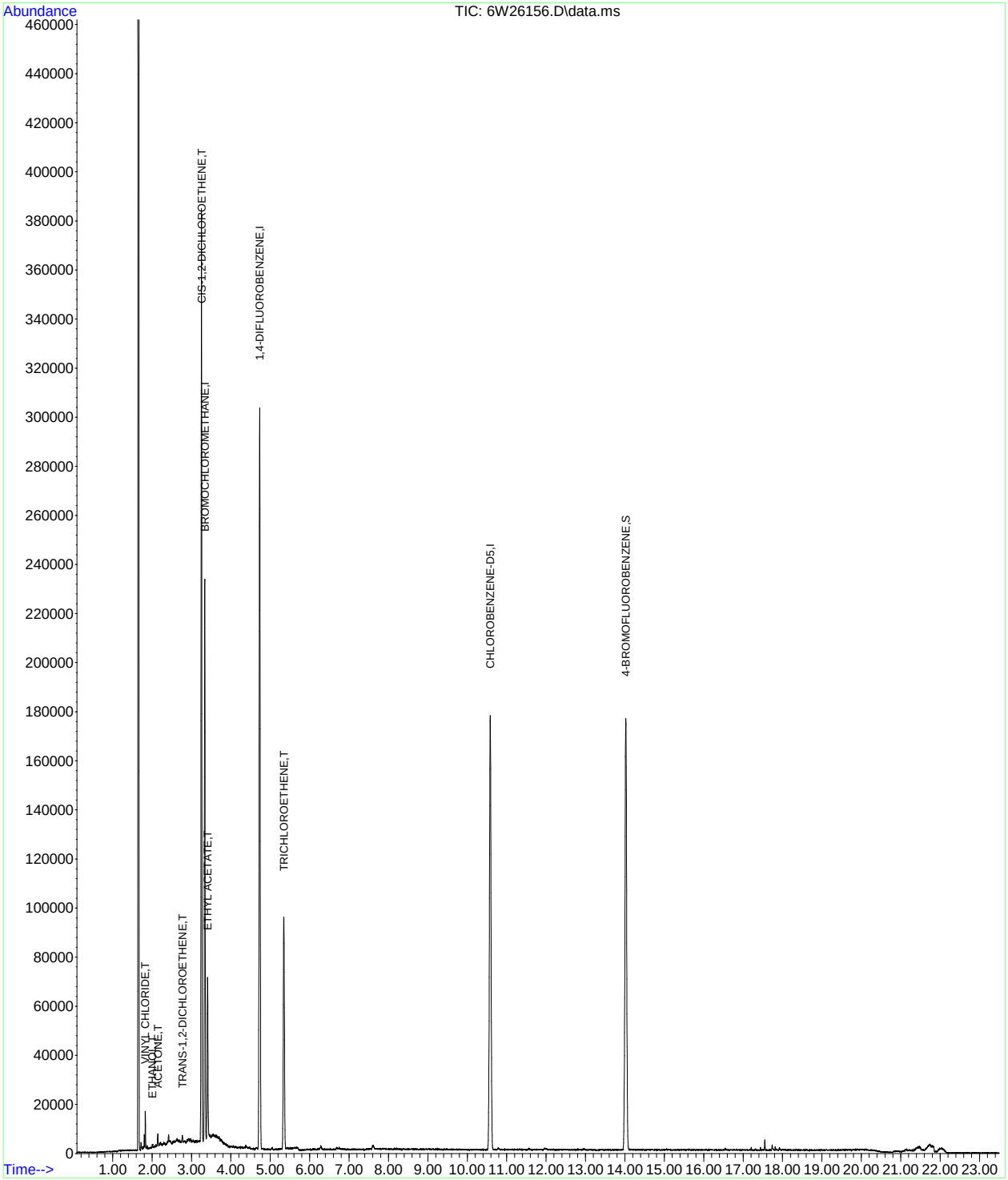
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.339 | 128 | 35756 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.731 | 114 | 205827 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.583 | 117 | 142488 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.020 | 95 | 102429 | 9.84 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 11) VINYL CHLORIDE | 1.827 | 62 | 6660 | 0.97 | PPBV | 98 |
| 23) ACETONE | 2.149 | 58 | 992 | 0.29 | PPBV # | 59 |
| 28) ETHANOL | 2.007 | 45 | 817 | 0.22 | PPBV # | 40 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.773 | 96 | 702 | 0.12 | PPBV # | 49 |
| 42) CIS-1,2-DICHLOROETHENE | 3.255 | 96 | 109833 | 16.93 | PPBV # | 81 |
| 44) ETHYL ACETATE | 3.409 | 61 | 7960 | 3.39 | PPBV # | 10 |
| 55) TRICHLOROETHENE | 5.345 | 95 | 33869 | 3.94 | PPBV | 85 |

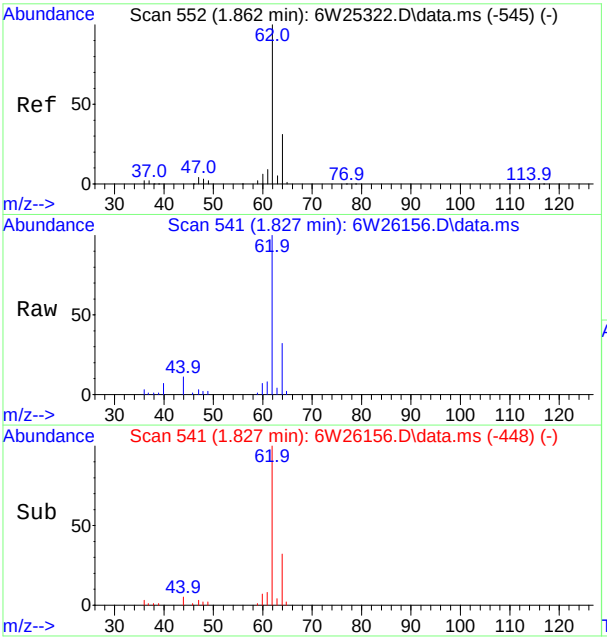
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26156.D
Acq On : 30 Sep 2022 4:43 am
Operator : thomash
Sample : jd52620-8
Misc : MS62557,V6W1111,20,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 03 14:00:53 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

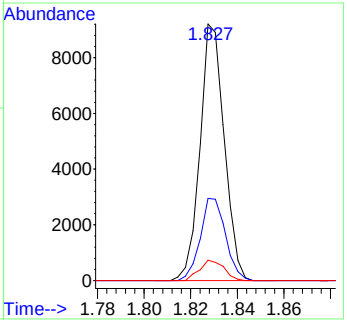


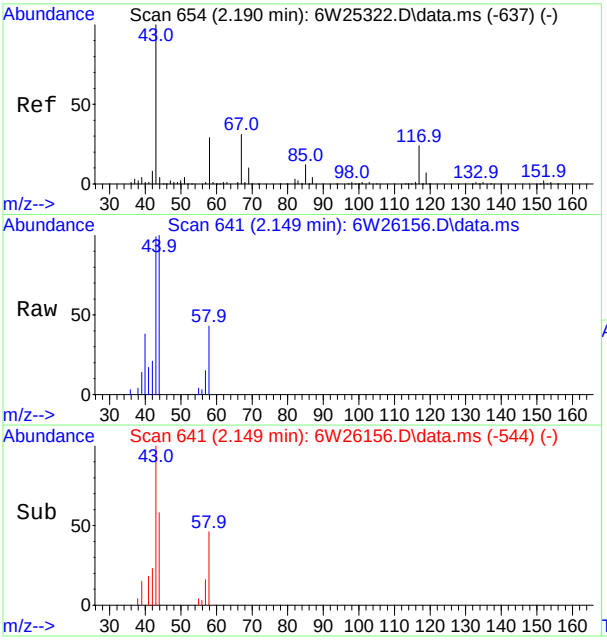



#11
VINYL CHLORIDE
Concen: 0.97 PPBV
RT: 1.827 min Scan# 541
Delta R.T. 0.000 min
Lab File: 6W26156.D
Acq: 30 Sep 2022 4:43 am

Tgt Ion: 62 Resp: 6660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.4 | 25.7 | 38.5 |
| 61 | 8.0 | 6.7 | 10.1 |

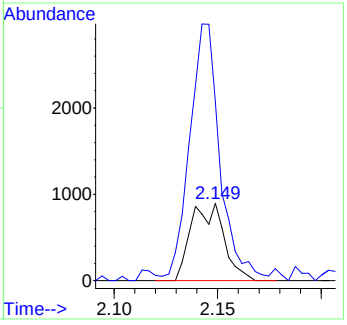


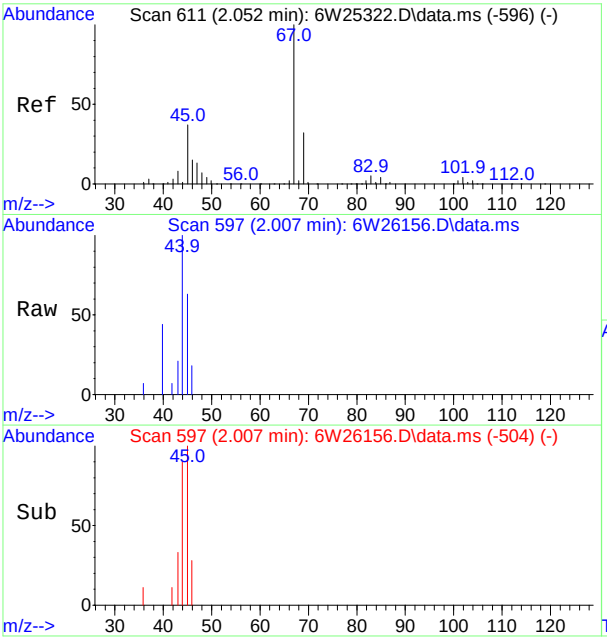




#23
ACETONE
Concen: 0.29 PPBV
RT: 2.149 min Scan# 641
Delta R.T. 0.013 min
Lab File: 6W26156.D
Acq: 30 Sep 2022 4:43 am

Tgt Ion: 58 Resp: 992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 316.3 | 195.9 | 293.9# |

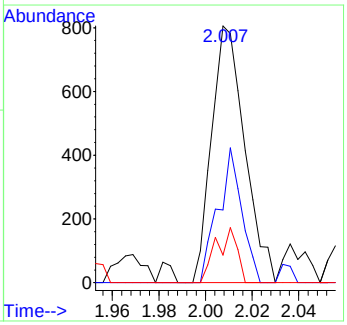


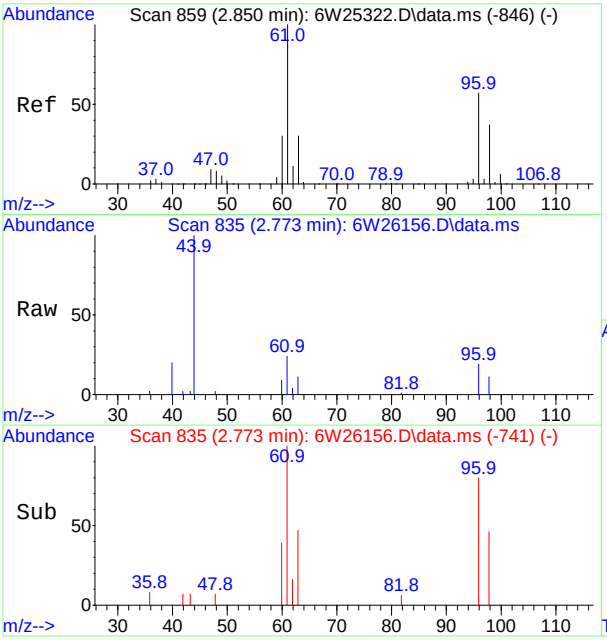



#28
ETHANOL
Concen: 0.22 PPBV
RT: 2.007 min Scan# 597
Delta R.T. 0.000 min
Lab File: 6W26156.D
Acq: 30 Sep 2022 4:43 am

Tgt Ion: 45 Resp: 817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 0.0 | 34.1 | 51.1# |
| 42 | 0.0 | 6.1 | 9.1# |

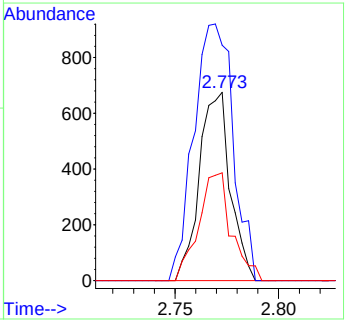


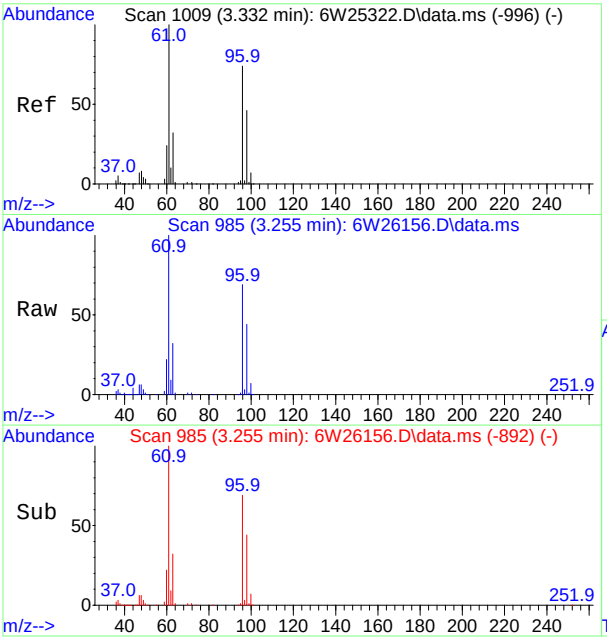




#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.12 PPBV
RT: 2.773 min Scan# 835
Delta R.T. 0.004 min
Lab File: 6W26156.D
Acq: 30 Sep 2022 4:43 am

Tgt Ion: 96 Resp: 702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 173.4 | 104.3 | 156.5# |
| 98 | 0.0 | 50.6 | 76.0# |

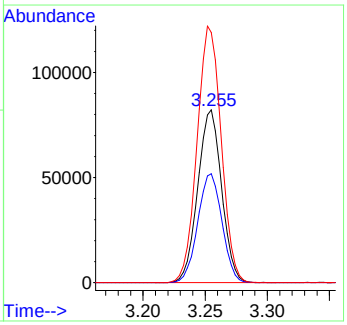


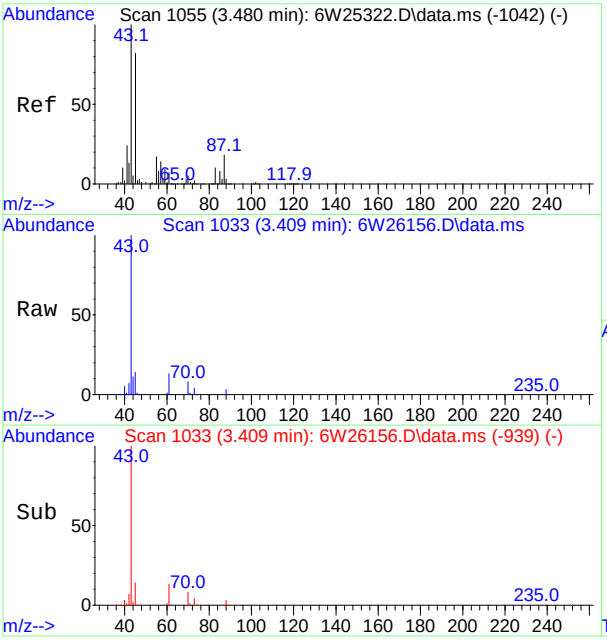



#42
CIS-1,2-DICHLOROETHENE
Concen: 16.93 PPBV
RT: 3.255 min Scan# 985
Delta R.T. 0.000 min
Lab File: 6W26156.D
Acq: 30 Sep 2022 4:43 am

Tgt Ion: 96 Resp: 109833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 63.8 | 51.1 | 76.7 |
| 61 | 150.2 | 93.9 | 140.9# |

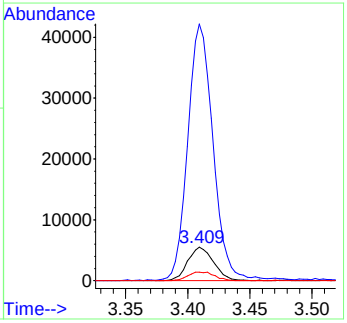


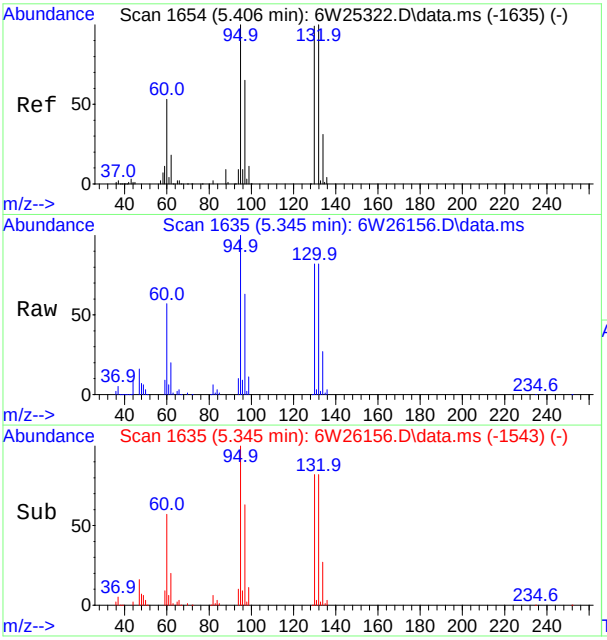




#44
ETHYL ACETATE
Concen: 3.39 PPBV
RT: 3.409 min Scan# 1033
Delta R.T. 0.004 min
Lab File: 6W26156.D
Acq: 30 Sep 2022 4:43 am

Tgt Ion: 61 Resp: 7960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 757.0 | 986.2 | 1479.2# |
| 88 | 26.1 | 38.8 | 58.2# |

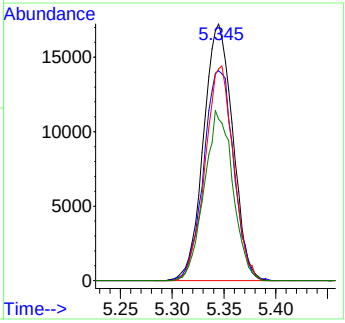





#55
TRICHLOROETHENE
Concen: 3.94 PPBV
RT: 5.345 min Scan# 1635
Delta R.T. -0.003 min
Lab File: 6W26156.D
Acq: 30 Sep 2022 4:43 am

Tgt Ion: 95 Resp: 33869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 84.0 | 83.2 | 124.8 |
| 132 | 81.2 | 79.8 | 119.6 |
| 97 | 64.8 | 51.3 | 76.9 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61666.D
Acq On : 29 Sep 2022 5:19 pm
Operator : thomash
Sample : jd52620-9
Misc : MS62557,V2w2736,40,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 03 12:40:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

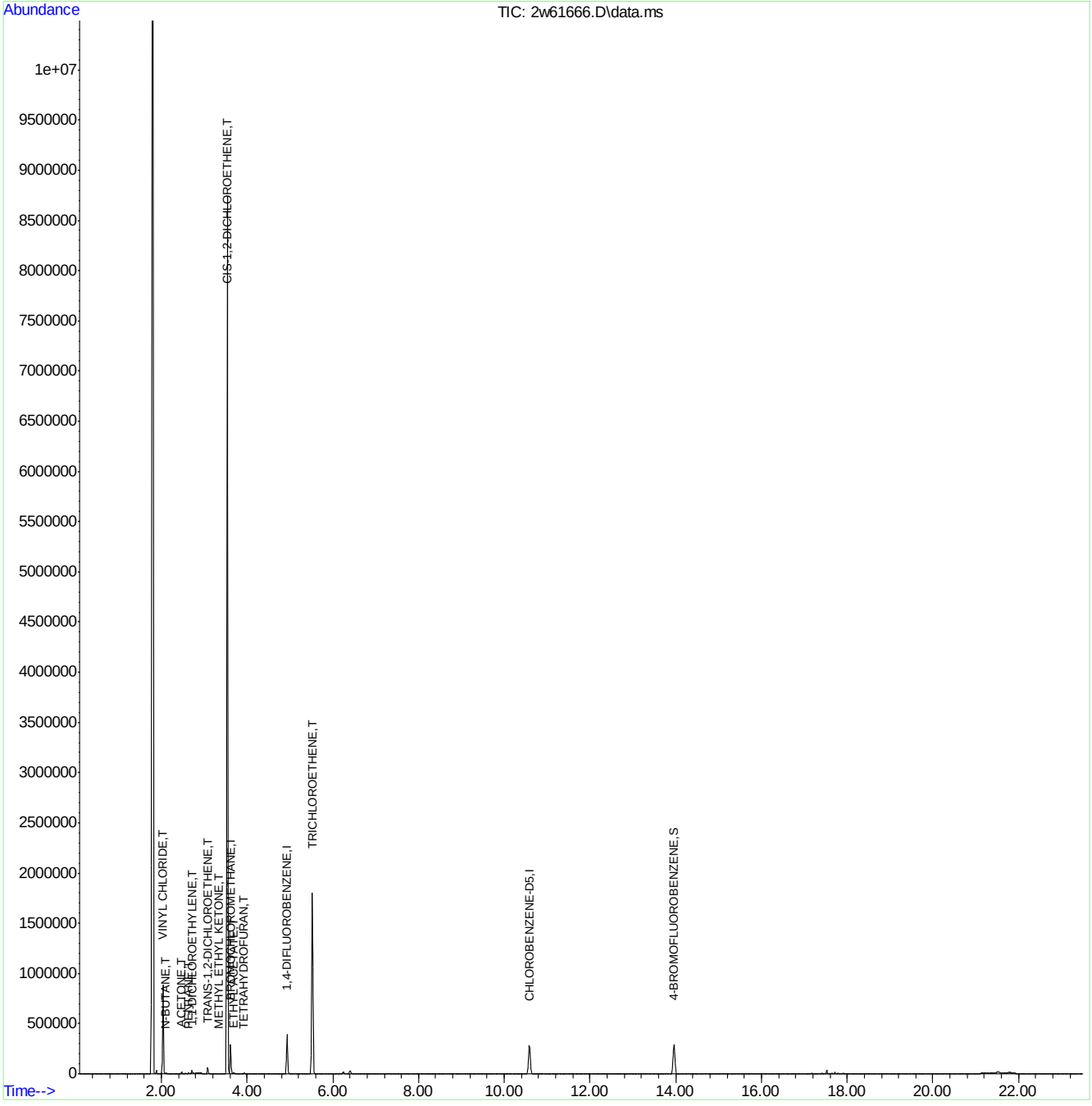
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.615 | 128 | 58921 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.933 | 114 | 304403 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 250840 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.955 | 95 | 174639 | 10.46 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 11) VINYL CHLORIDE | 2.036 | 62 | 670458 | 65.38 | PPBV | | 100 |
| 13) N-BUTANE | 2.104 | 43 | 4749 | 0.34 | PPBV | # | 92 |
| 23) ACETONE | 2.470 | 58 | 5448 | 0.70 | PPBV | | 81 |
| 24) PENTANE | 2.634 | 42 | 1533 | 0.11 | PPBV | # | 75 |
| 26) 1,1-DICHLOROETHYLENE | 2.714 | 96 | 6557 | 0.56 | PPBV | | 98 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 14581 | 1.50 | PPBV | | 94 |
| 37) TETRAHYDROFURAN | 3.920 | 72 | 1332 | 0.31 | PPBV | # | 83 |
| 41) METHYL ETHYL KETONE | 3.345 | 72 | 903 | 0.21 | PPBV | # | 94 |
| 42) CIS-1,2-DICHLOROETHENE | 3.538 | 96 | 2482165 | 237.18 | PPBV | | 95 |
| 44) ETHYL ACETATE | 3.676 | 61 | 2399 | 0.69 | PPBV | # | 1 |
| 55) TRICHLOROETHENE | 5.521 | 95 | 614942 | 47.66 | PPBV | | 95 |

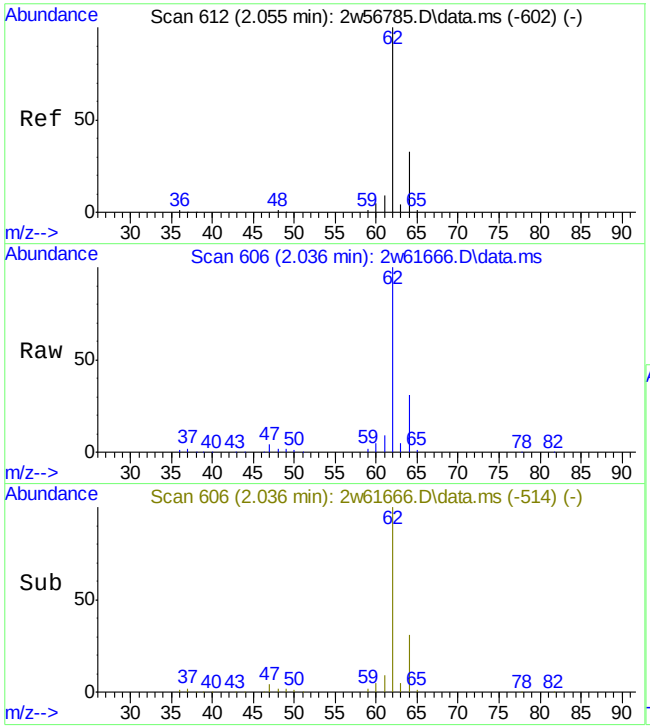
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61666.D
Acq On : 29 Sep 2022 5:19 pm
Operator : thomash
Sample : jd52620-9
Misc : MS62557,V2w2736,40,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 03 12:40:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

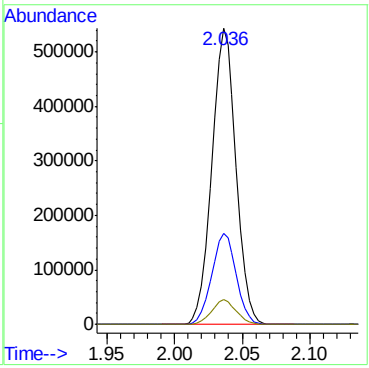


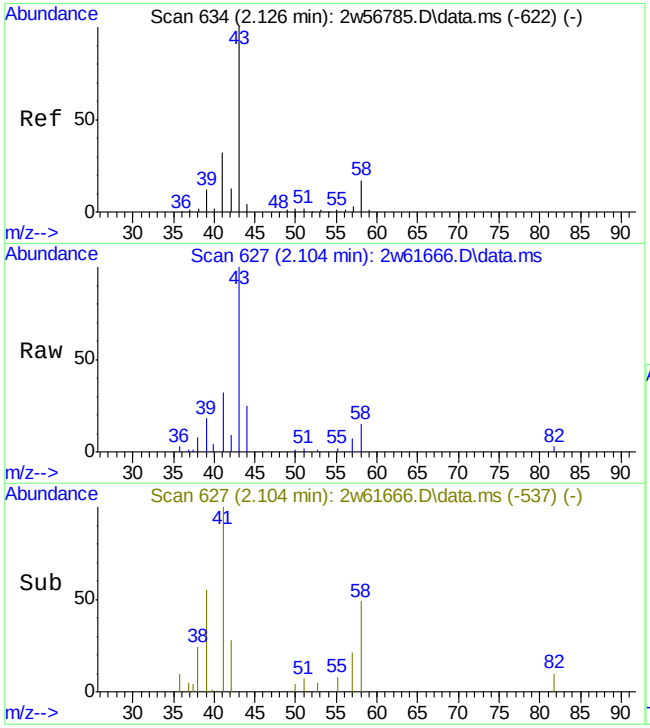



#11
VINYL CHLORIDE
Concen: 65.38 PPBV
RT: 2.036 min Scan# 606
Delta R.T. -0.003 min
Lab File: 2w61666.D
Acq: 29 Sep 2022 5:19 pm

Tgt Ion: 62 Resp: 670458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.3 | 25.2 | 37.8 |
| 61 | 8.5 | 7.0 | 10.4 |

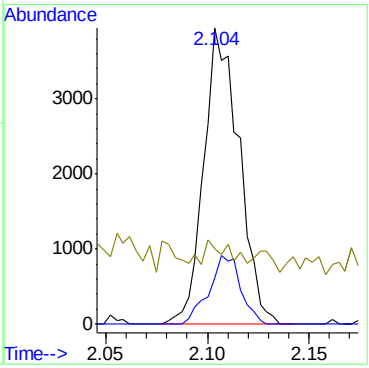


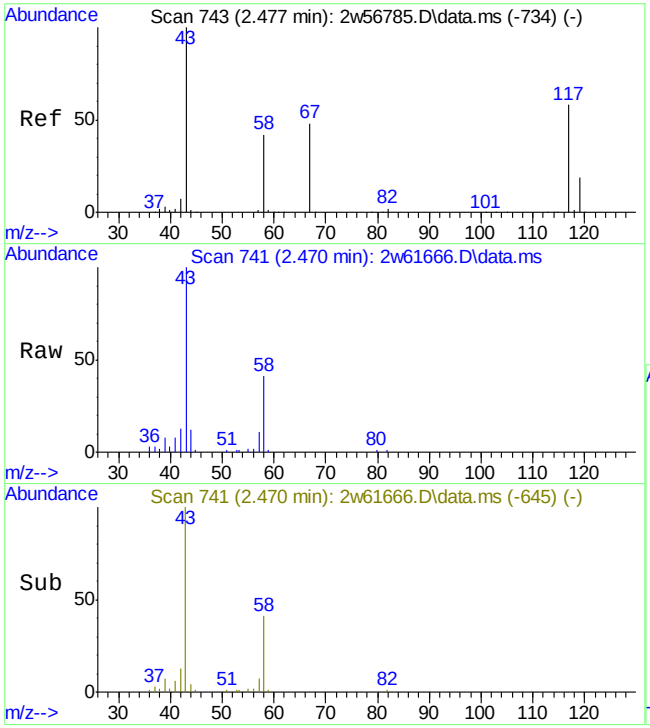




#13
N-BUTANE
Concen: 0.34 PPBV
RT: 2.104 min Scan# 627
Delta R.T. -0.010 min
Lab File: 2w61666.D
Acq: 29 Sep 2022 5:19 pm

Tgt Ion: 43 Resp: 4749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 20.8 | 15.0 | 22.4 |
| 44 | 11.6 | 3.4 | 5.2# |

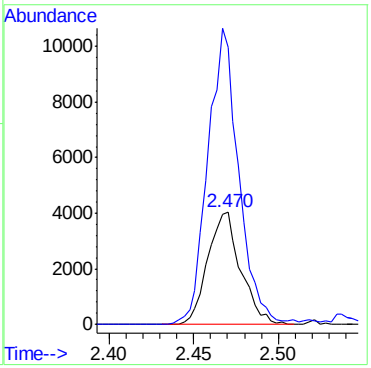


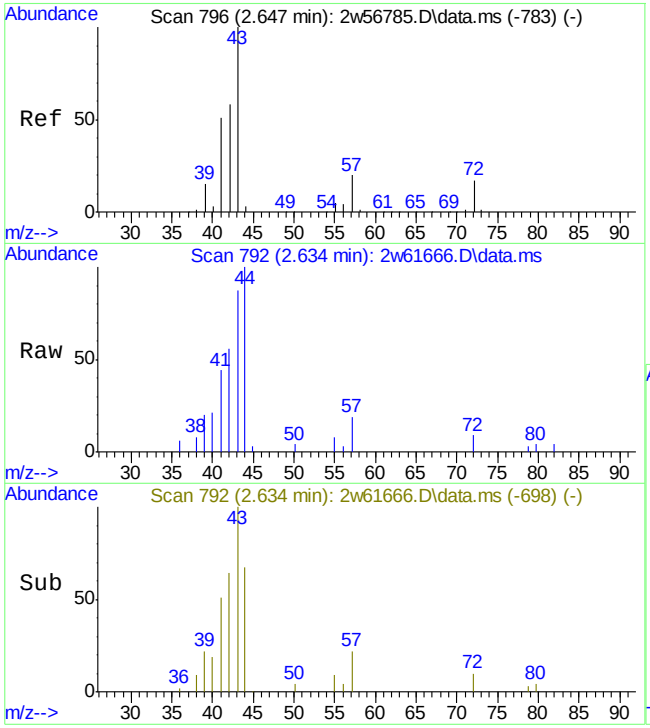



#23
ACETONE
Concen: 0.70 PPBV
RT: 2.470 min Scan# 741
Delta R.T. 0.009 min
Lab File: 2w61666.D
Acq: 29 Sep 2022 5:19 pm

Tgt Ion: 58 Resp: 5448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 250.2 | 229.9 | 344.9 |

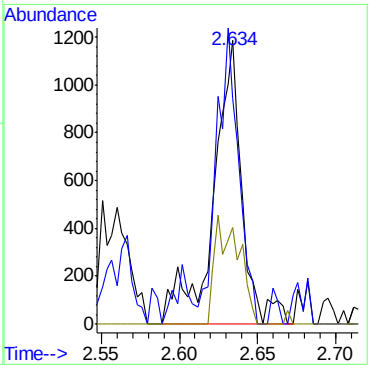


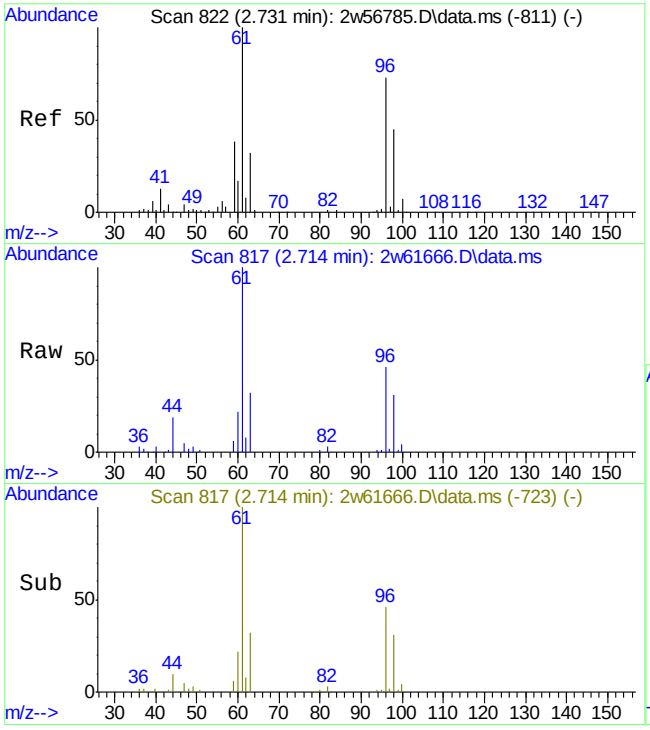




#24
PENTANE
Concen: 0.11 PPBV
RT: 2.634 min Scan# 792
Delta R.T. 0.003 min
Lab File: 2w61666.D
Acq: 29 Sep 2022 5:19 pm

Tgt Ion: 42 Resp: 1533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 41 | 81.0 | 75.7 | 113.5 |
| 57 | 0.0 | 25.0 | 37.6# |

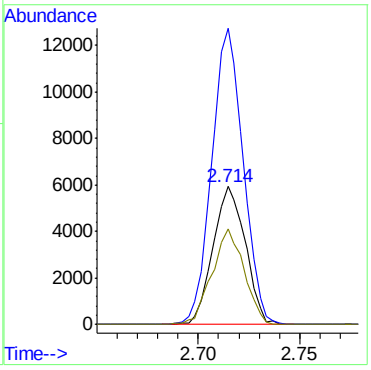


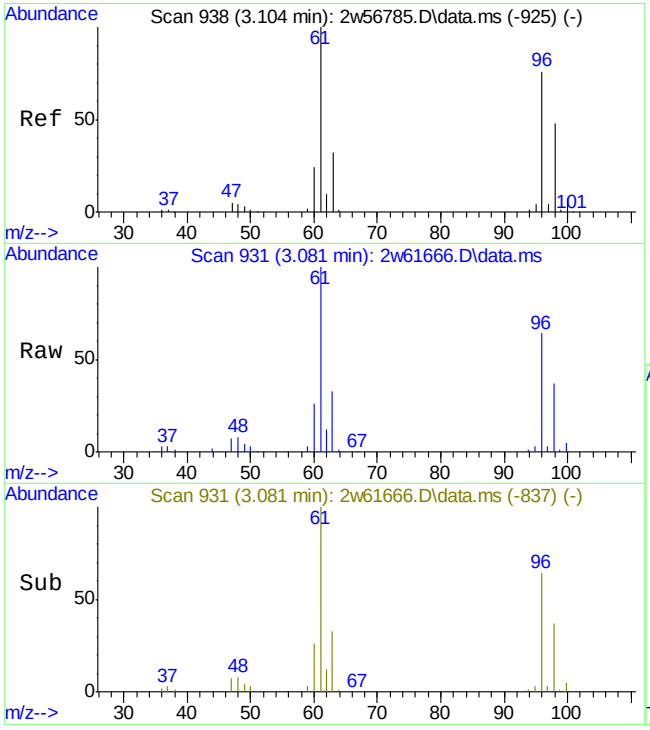



#26
1,1-DICHLOROETHYLENE
Concen: 0.56 PPBV
RT: 2.714 min Scan# 817
Delta R.T. 0.003 min
Lab File: 2w61666.D
Acq: 29 Sep 2022 5:19 pm

Tgt Ion: 96 Resp: 6557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 209.4 | 166.0 | 249.0 |
| 63 | 68.9 | 52.0 | 78.0 |

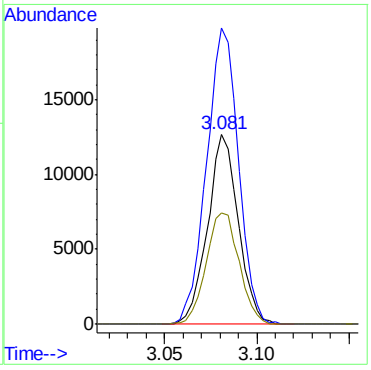


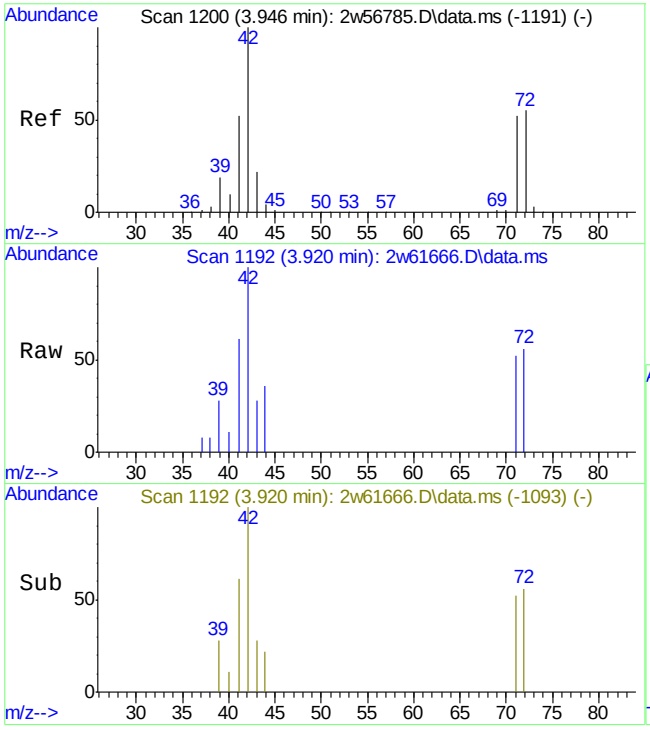




#34
TRANS-1,2-DICHLOROETHENE
Concen: 1.50 PPBV
RT: 3.081 min Scan# 931
Delta R.T. 0.003 min
Lab File: 2w61666.D
Acq: 29 Sep 2022 5:19 pm

Tgt Ion: 96 Resp: 14581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 162.7 | 121.8 | 182.8 |
| 98 | 62.7 | 51.4 | 77.0 |

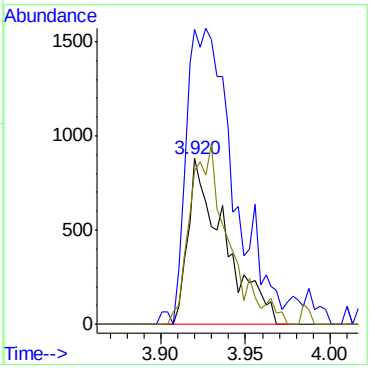


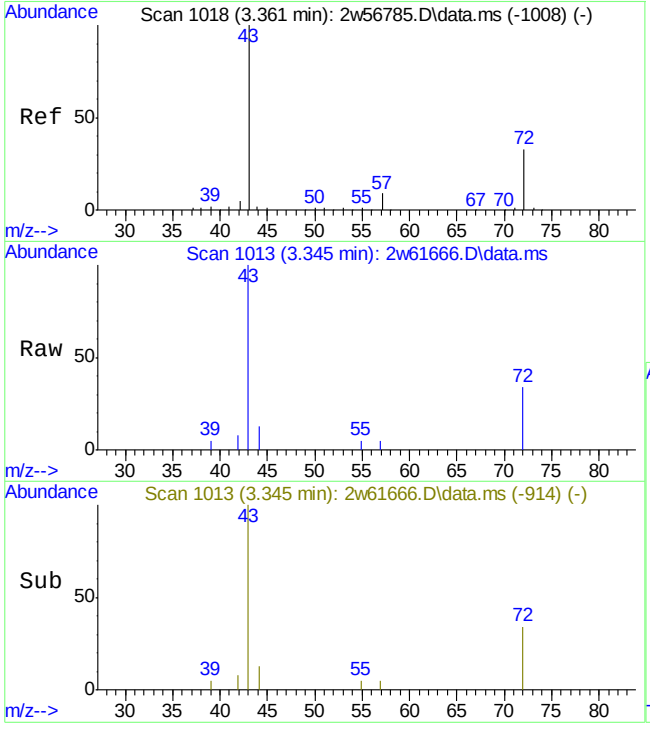



#37
TETRAHYDROFURAN
Concen: 0.31 PPBV
RT: 3.920 min Scan# 1192
Delta R.T. 0.019 min
Lab File: 2w61666.D
Acq: 29 Sep 2022 5:19 pm

Tgt Ion: 72 Resp: 1332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 72 | 100 | | |
| 42 | 244.4 | 175.8 | 263.6 |
| 71 | 113.2 | 74.0 | 111.0# |

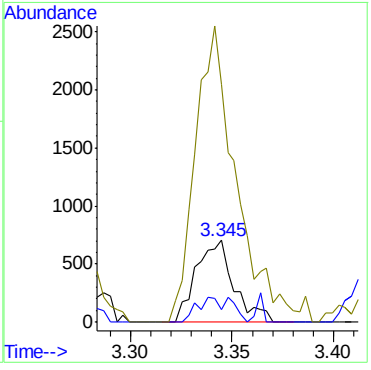


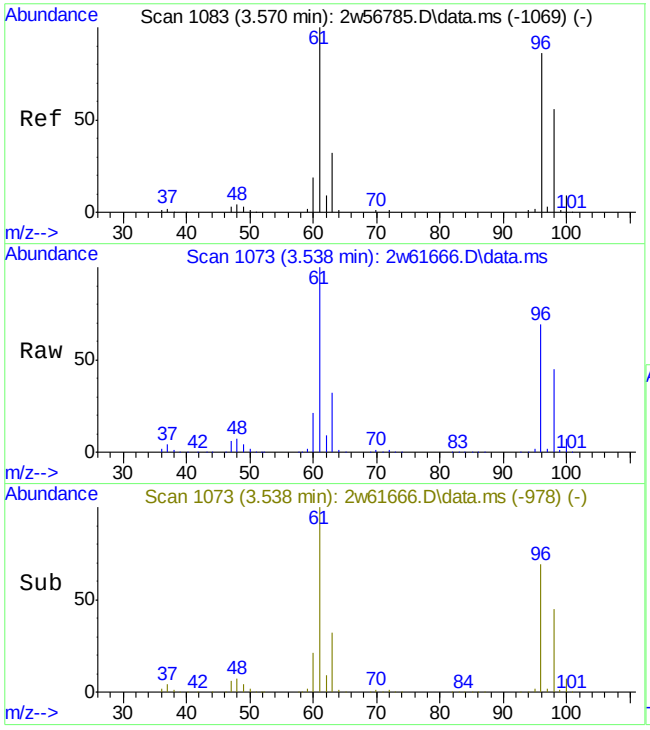




#41
METHYL ETHYL KETONE
Concen: 0.21 PPBV
RT: 3.345 min Scan# 1013
Delta R.T. 0.019 min
Lab File: 2w61666.D
Acq: 29 Sep 2022 5:19 pm

Tgt Ion: 72 Resp: 903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 72 | 100 | | |
| 57 | 0.0 | 29.1 | 43.7# |
| 43 | 398.1 | 321.0 | 481.4 |

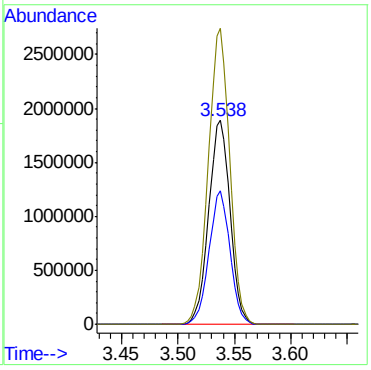


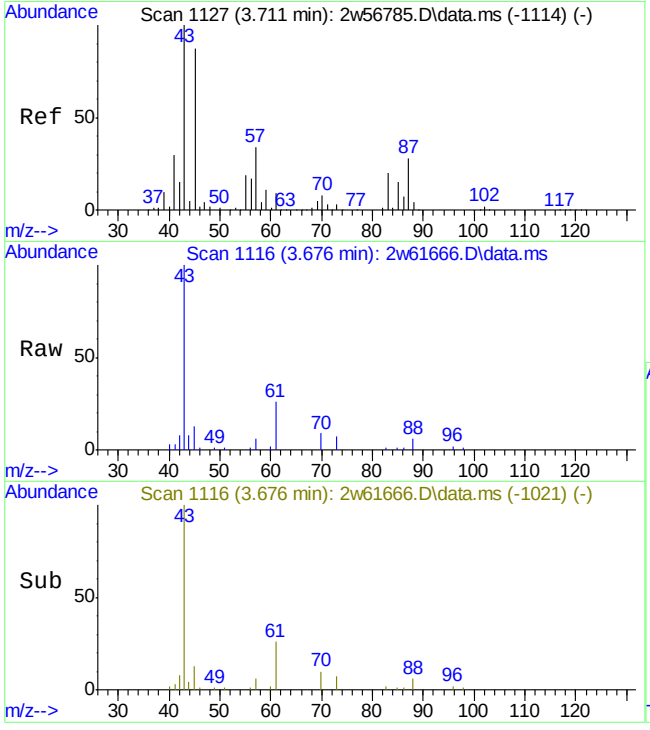



#42
CIS-1,2-DICHLOROETHENE
Concen: 237.18 PPBV
RT: 3.538 min Scan# 1073
Delta R.T. 0.006 min
Lab File: 2w61666.D
Acq: 29 Sep 2022 5:19 pm

Tgt Ion: 96 Resp: 2482165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 64.1 | 51.0 | 76.6 |
| 61 | 144.9 | 109.5 | 164.3 |

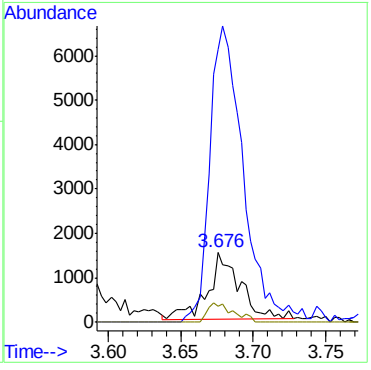


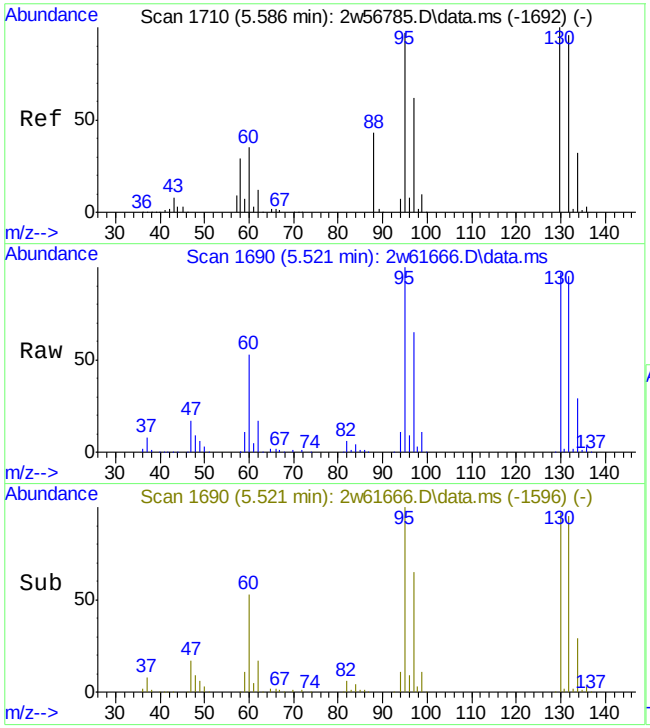




#44
ETHYL ACETATE
Concen: 0.69 PPBV
RT: 3.676 min Scan# 1116
Delta R.T. 0.006 min
Lab File: 2w61666.D
Acq: 29 Sep 2022 5:19 pm

Tgt Ion: 61 Resp: 2399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 454.8 | 1054.2 | 1581.2# |
| 88 | 22.1 | 34.4 | 51.6# |

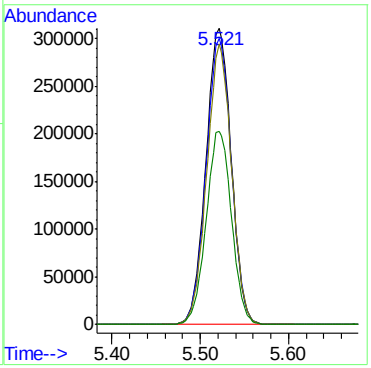





#55
TRICHLOROETHENE
Concen: 47.66 PPBV
RT: 5.521 min Scan# 1690
Delta R.T. 0.003 min
Lab File: 2w61666.D
Acq: 29 Sep 2022 5:19 pm

Tgt Ion: 95 Resp: 614942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 96.5 | 82.8 | 124.2 |
| 132 | 92.3 | 79.3 | 118.9 |
| 97 | 65.2 | 52.0 | 78.0 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61693.D
Acq On : 30 Sep 2022 1:15 pm
Operator : thomash
Sample : jd52620-9
Misc : MS62557,V2w2737,5,,,,1.13
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 03 13:14:31 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

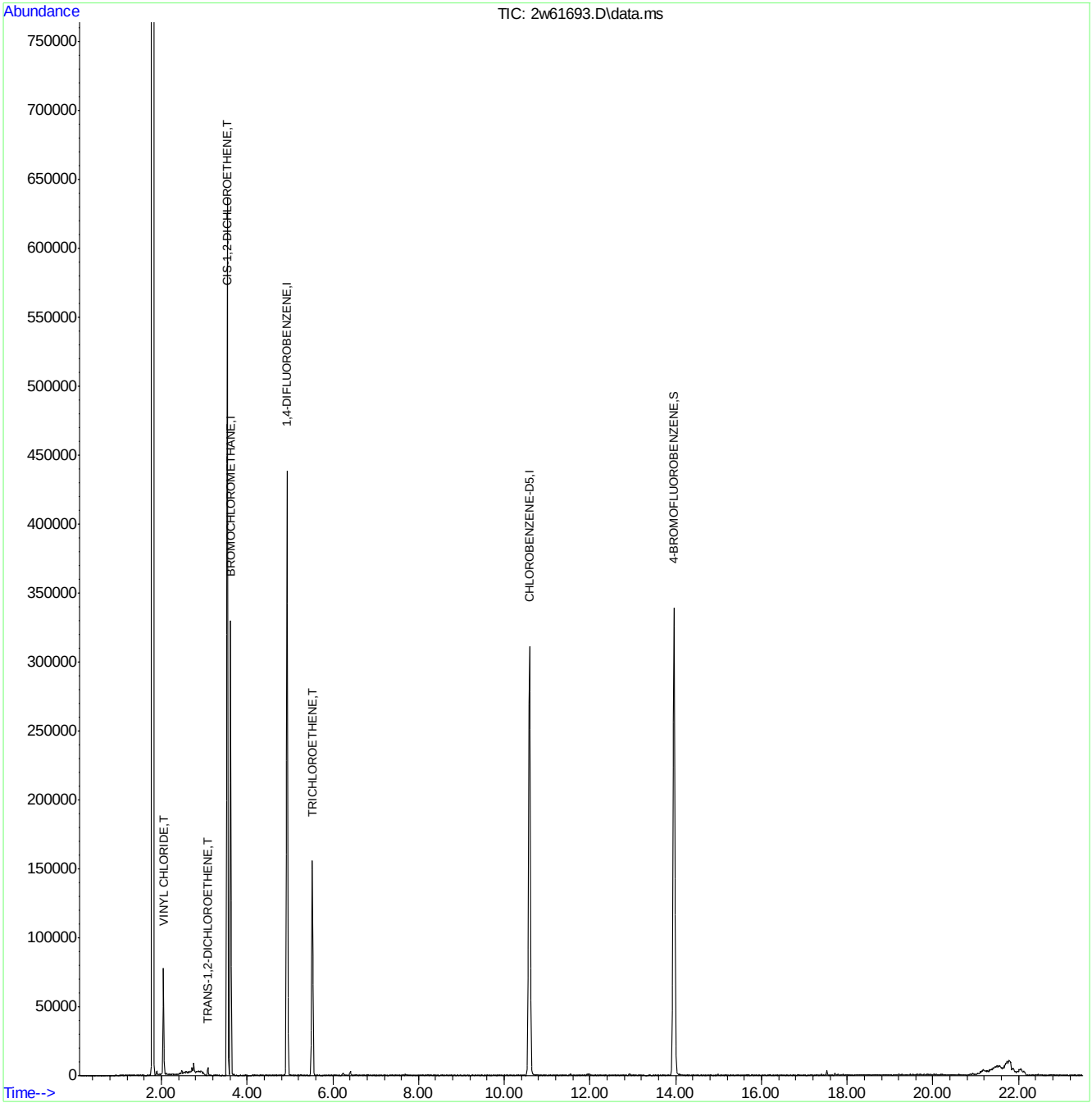
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.615 | 128 | 65766 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 340075 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.589 | 117 | 276756 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 196454 | 10.66 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 11) VINYL CHLORIDE | 2.049 | 62 | 61166 | 5.34 | PPBV | 99 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 1425 | 0.13 | PPBV | 93 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 196572 | 16.83 | PPBV | 95 |
| 55) TRICHLOROETHENE | 5.521 | 95 | 55185 | 3.83 | PPBV | 96 |

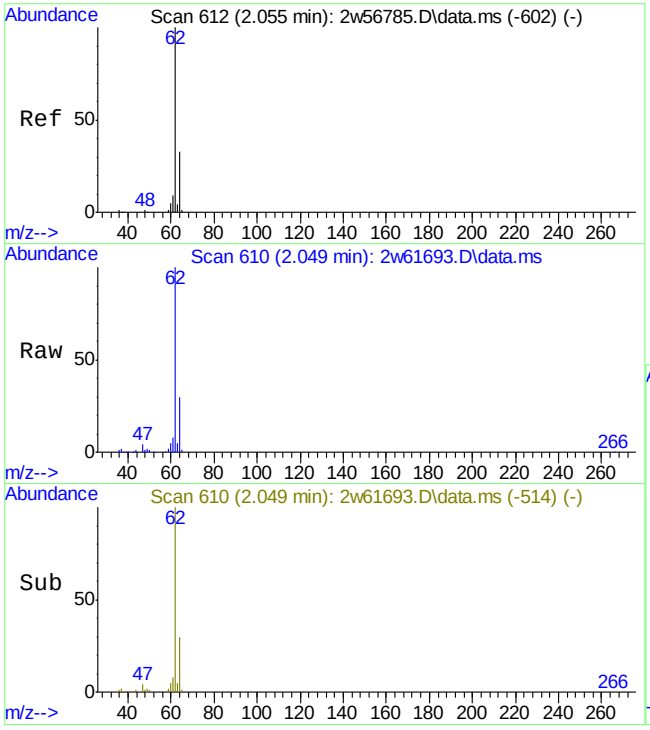
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61693.D
Acq On : 30 Sep 2022 1:15 pm
Operator : thomash
Sample : jd52620-9
Misc : MS62557,V2w2737,5,,,,1.13
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 03 13:14:31 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

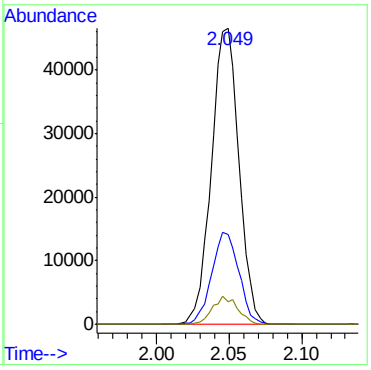


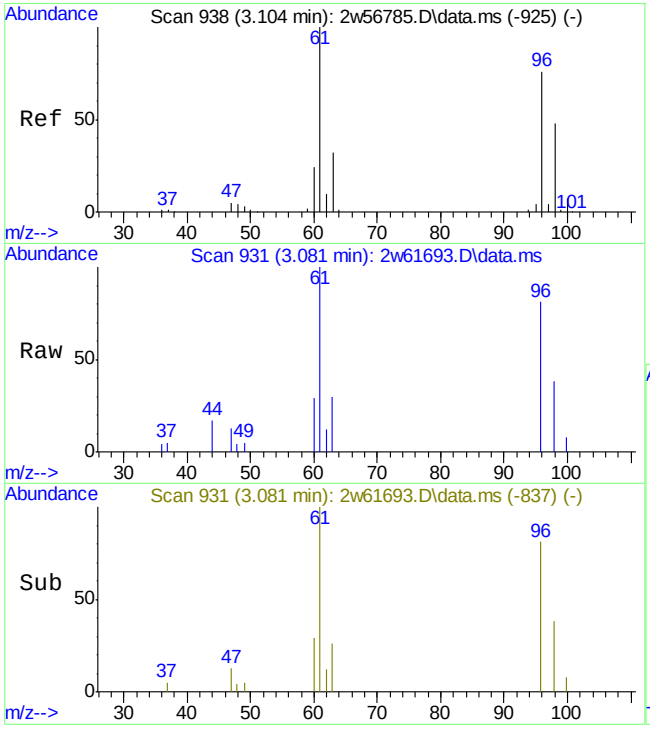



#11
VINYL CHLORIDE
Concen: 5.34 PPBV
RT: 2.049 min Scan# 610
Delta R.T. 0.009 min
Lab File: 2w61693.D
Acq: 30 Sep 2022 1:15 pm

Tgt Ion: 62 Resp: 61166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.6 | 25.2 | 37.8 |
| 61 | 8.6 | 7.0 | 10.4 |

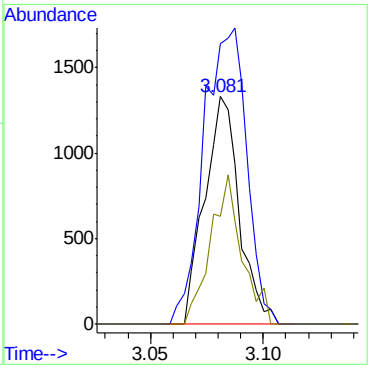


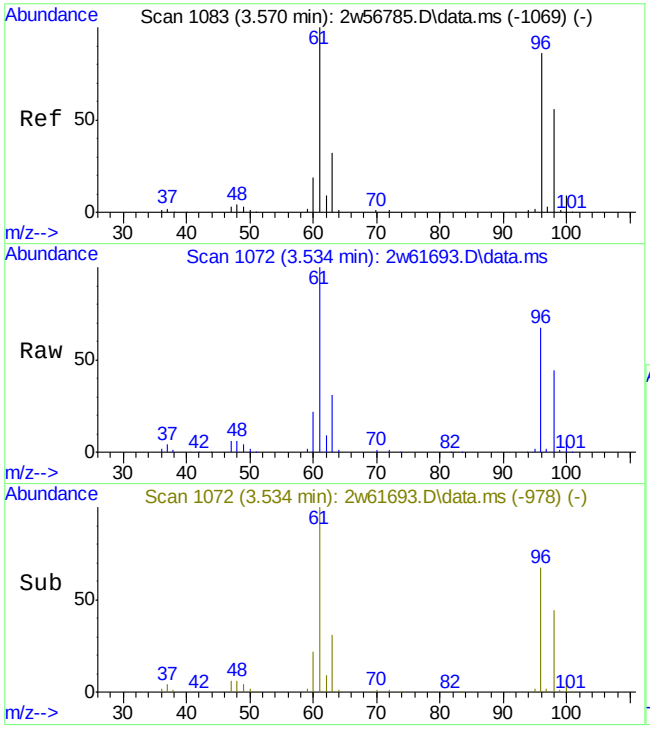




#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.13 PPBV
RT: 3.081 min Scan# 931
Delta R.T. 0.003 min
Lab File: 2w61693.D
Acq: 30 Sep 2022 1:15 pm

Tgt Ion: 96 Resp: 1425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.3 | 121.8 | 182.8 |
| 98 | 59.2 | 51.4 | 77.0 |

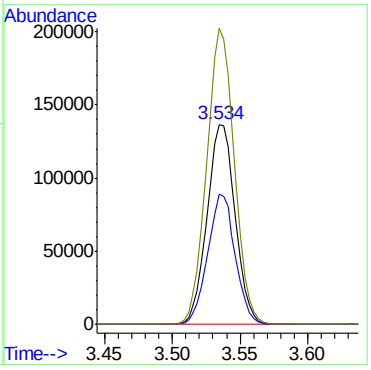


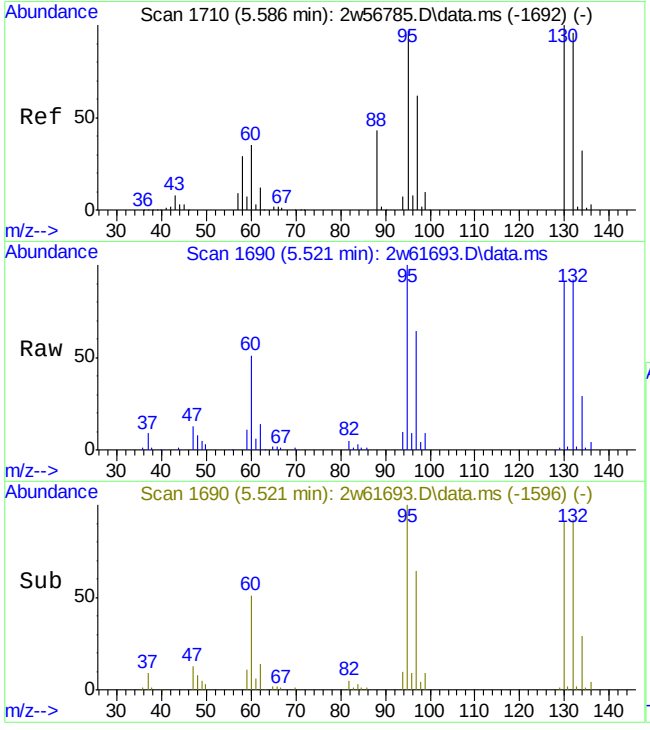



#42
CIS-1,2-DICHLOROETHENE
Concen: 16.83 PPBV
RT: 3.534 min Scan# 1072
Delta R.T. 0.003 min
Lab File: 2w61693.D
Acq: 30 Sep 2022 1:15 pm

Tgt Ion: 96 Resp: 196572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 63.5 | 51.0 | 76.6 |
| 61 | 145.8 | 109.5 | 164.3 |

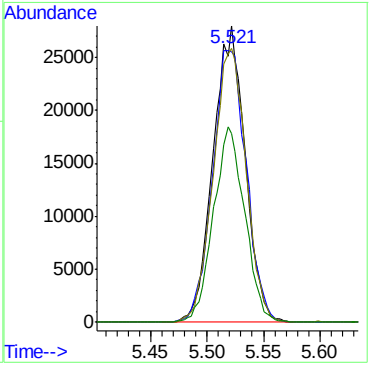



#55
TRICHLOROETHENE
Concen: 3.83 PPBV
RT: 5.521 min Scan# 1690
Delta R.T. 0.003 min
Lab File: 2w61693.D
Acq: 30 Sep 2022 1:15 pm

Tgt Ion: 95 Resp: 55185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 96.9 | 82.8 | 124.2 |
| 132 | 94.8 | 79.3 | 118.9 |
| 97 | 64.2 | 52.0 | 78.0 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61667.D
Acq On : 29 Sep 2022 5:52 pm
Operator : thomash
Sample : jd52620-10
Misc : MS62557,V2w2736,20,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 03 12:44:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

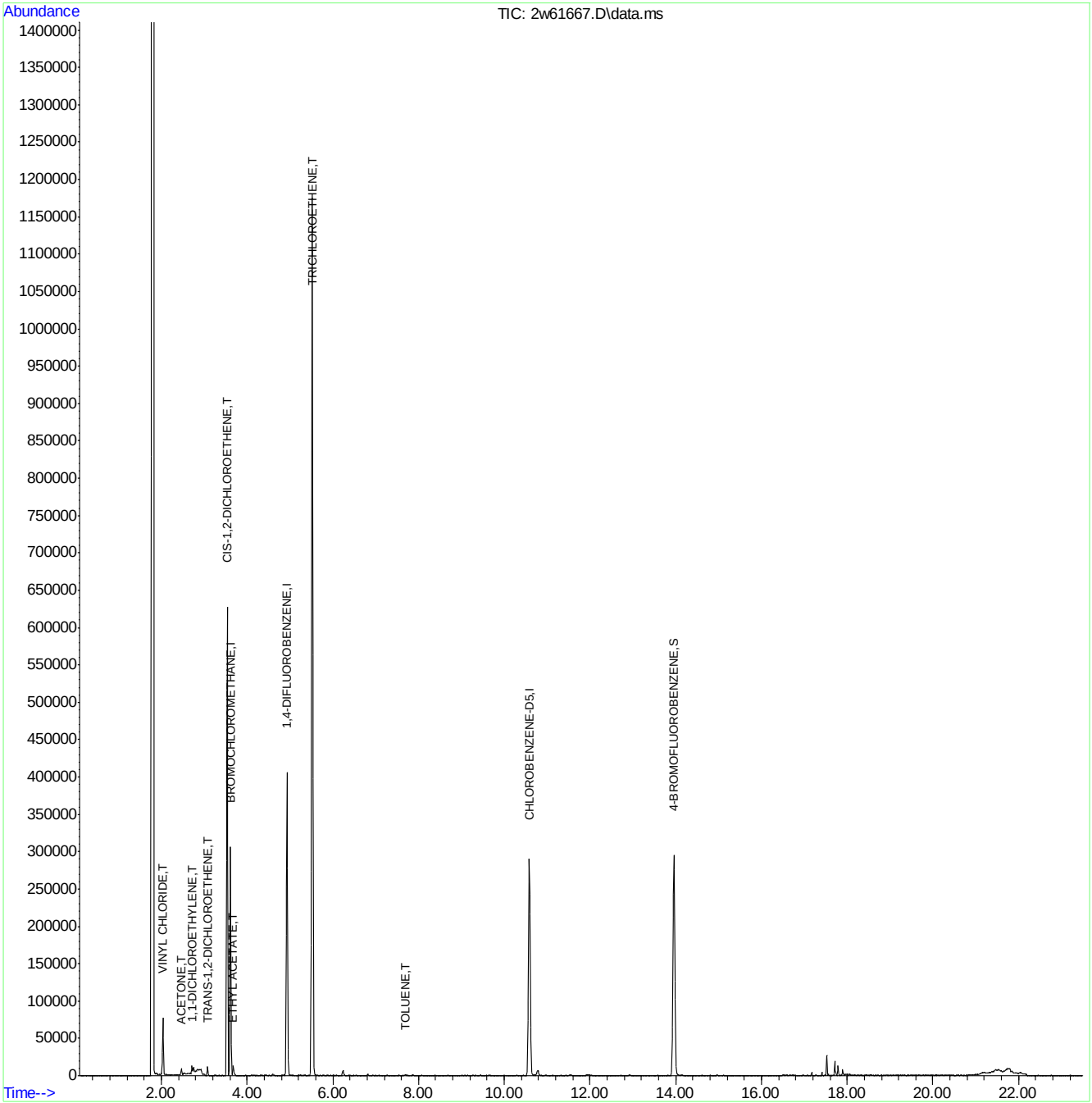
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.611 | 128 | 61241 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 314285 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.589 | 117 | 255519 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 177168 | 10.41 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 11) VINYL CHLORIDE | 2.033 | 62 | 59594 | 5.59 | PPBV | | 98 |
| 23) ACETONE | 2.460 | 58 | 2296 | 0.28 | PPBV | | 90 |
| 26) 1,1-DICHLOROETHYLENE | 2.714 | 96 | 1740 | 0.14 | PPBV | # | 75 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 2691 | 0.27 | PPBV | | 94 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 189984 | 17.47 | PPBV | | 95 |
| 44) ETHYL ACETATE | 3.673 | 61 | 2412 | 0.67 | PPBV | # | 1 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 402321 | 30.20 | PPBV | | 95 |
| 66) TOLUENE | 7.698 | 91 | 1305 | 0.03 | PPBV | | 93 |

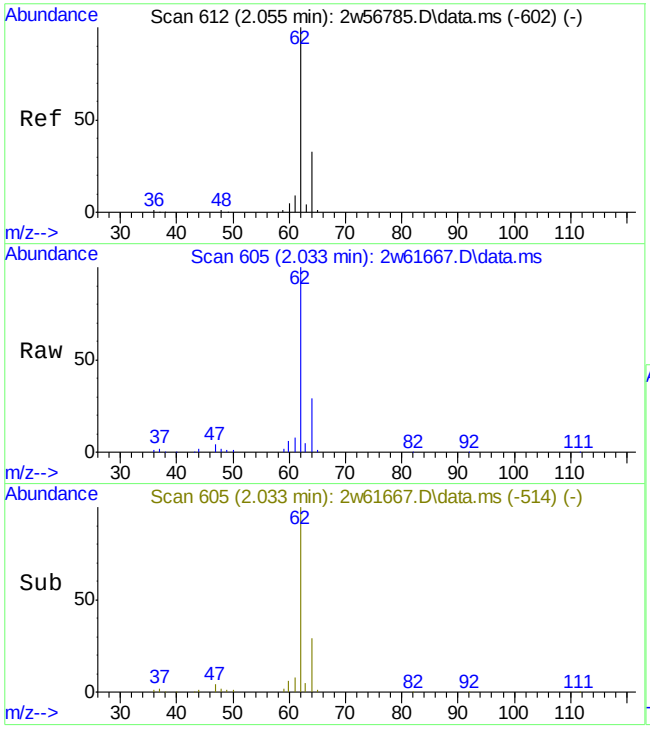
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61667.D
Acq On : 29 Sep 2022 5:52 pm
Operator : thomash
Sample : jd52620-10
Misc : MS62557,V2w2736,20,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 03 12:44:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

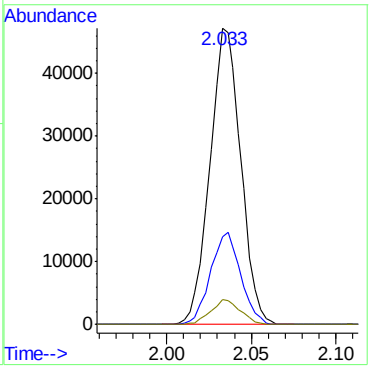


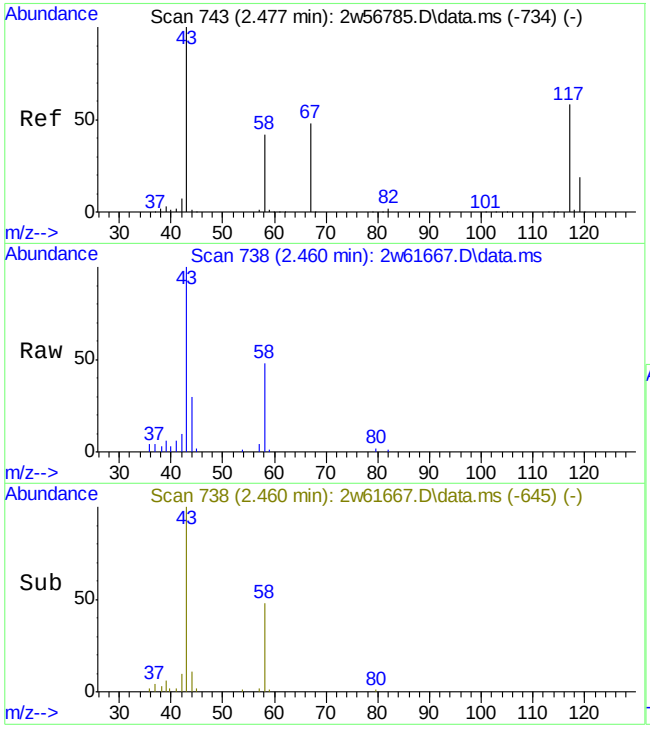



#11
VINYL CHLORIDE
Concen: 5.59 PPBV
RT: 2.033 min Scan# 605
Delta R.T. -0.007 min
Lab File: 2w61667.D
Acq: 29 Sep 2022 5:52 pm

Tgt Ion: 62 Resp: 59594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.4 | 25.2 | 37.8 |
| 61 | 8.0 | 7.0 | 10.4 |

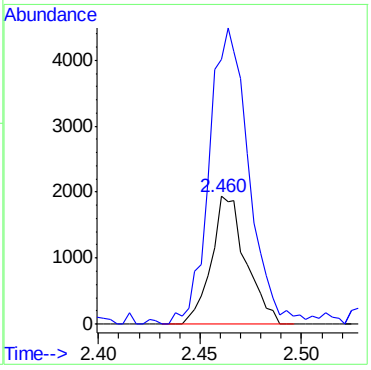


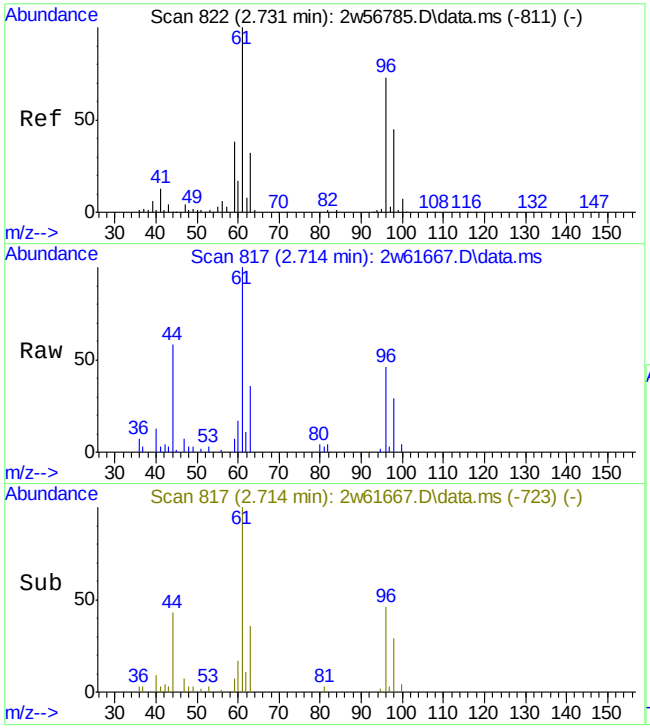




#23
ACETONE
Concen: 0.28 PPBV
RT: 2.460 min Scan# 738
Delta R.T. -0.000 min
Lab File: 2w61667.D
Acq: 29 Sep 2022 5:52 pm

Tgt Ion: 58 Resp: 2296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 268.5 | 229.9 | 344.9 |

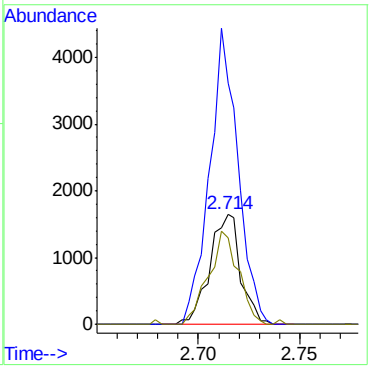


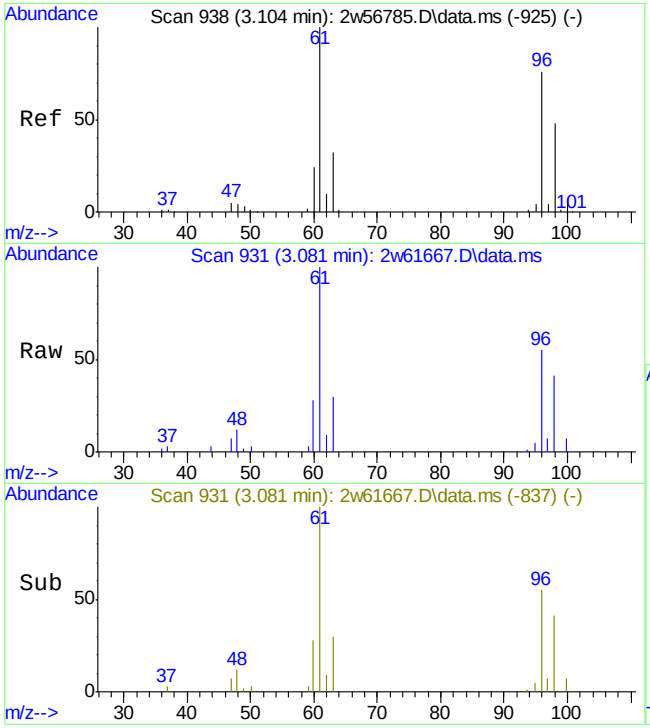



#26
1,1-DICHLOROETHYLENE
Concen: 0.14 PPBV
RT: 2.714 min Scan# 817
Delta R.T. 0.003 min
Lab File: 2w61667.D
Acq: 29 Sep 2022 5:52 pm

Tgt Ion: 96 Resp: 1740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 247.9 | 166.0 | 249.0 |
| 63 | 82.8 | 52.0 | 78.0# |

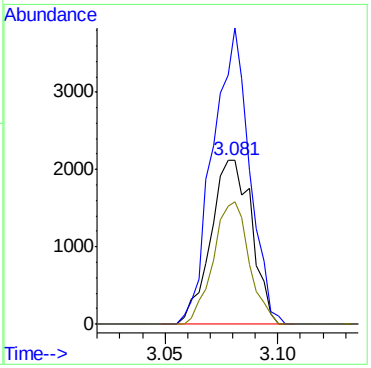


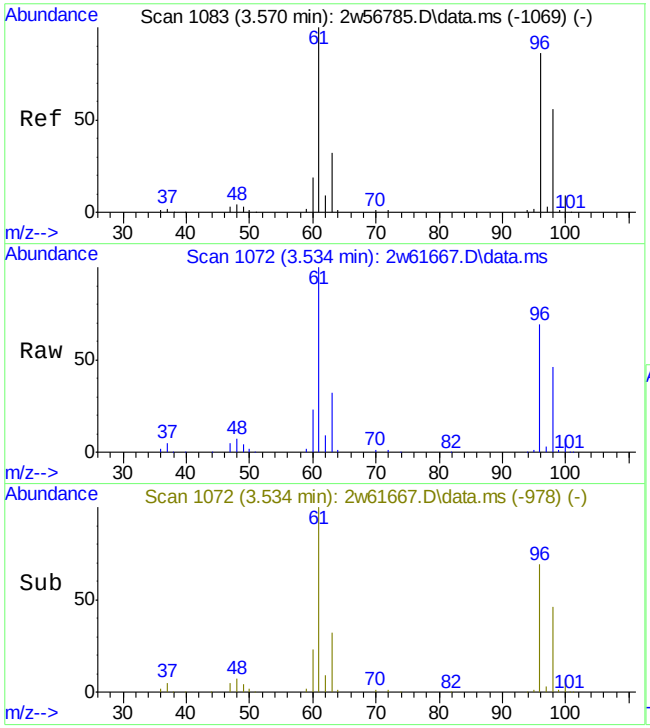




#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.27 PPBV
RT: 3.081 min Scan# 931
Delta R.T. 0.003 min
Lab File: 2w61667.D
Acq: 29 Sep 2022 5:52 pm

Tgt Ion: 96 Resp: 2691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 162.8 | 121.8 | 182.8 |
| 98 | 65.4 | 51.4 | 77.0 |

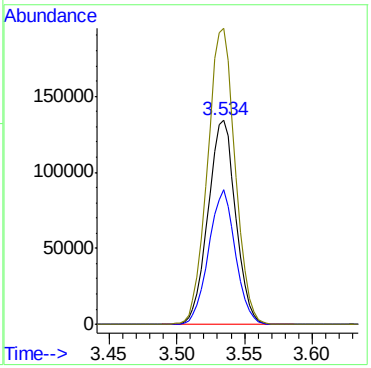


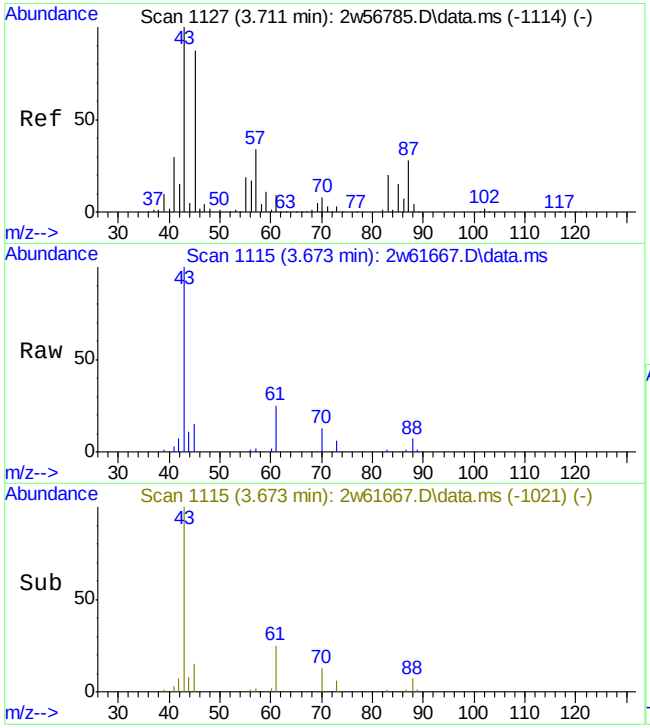



#42
CIS-1,2-DICHLOROETHENE
Concen: 17.47 PPBV
RT: 3.534 min Scan# 1072
Delta R.T. 0.003 min
Lab File: 2w61667.D
Acq: 29 Sep 2022 5:52 pm

Tgt Ion: 96 Resp: 189984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 63.9 | 51.0 | 76.6 |
| 61 | 145.4 | 109.5 | 164.3 |

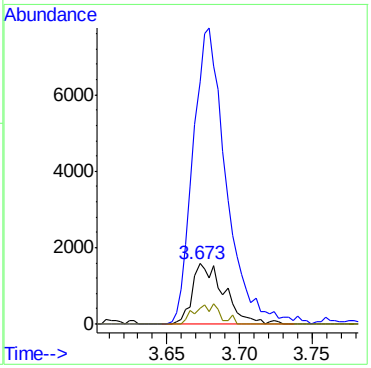


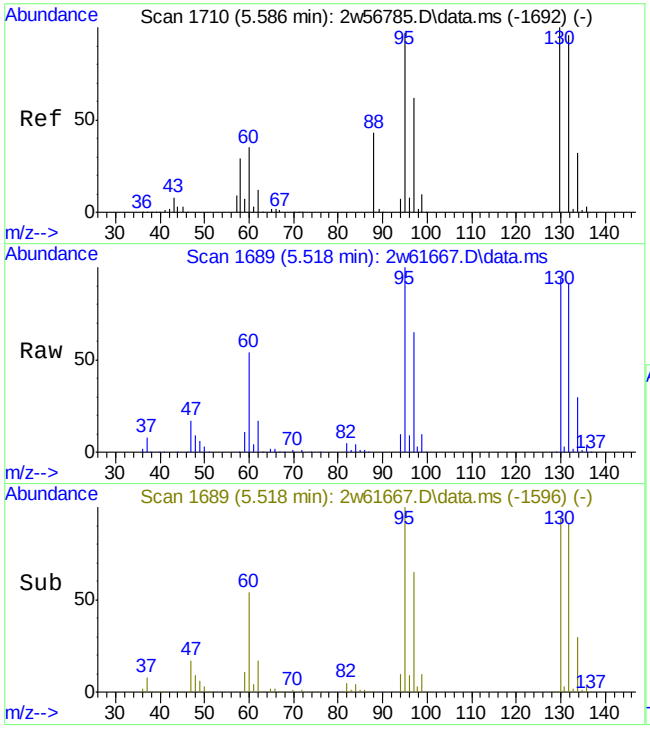




#44
ETHYL ACETATE
Concen: 0.67 PPBV
RT: 3.673 min Scan# 1115
Delta R.T. 0.003 min
Lab File: 2w61667.D
Acq: 29 Sep 2022 5:52 pm

Tgt Ion: 61 Resp: 2412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 513.8 | 1054.2 | 1581.2# |
| 88 | 26.9 | 34.4 | 51.6# |

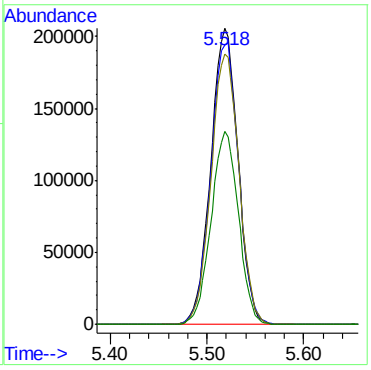


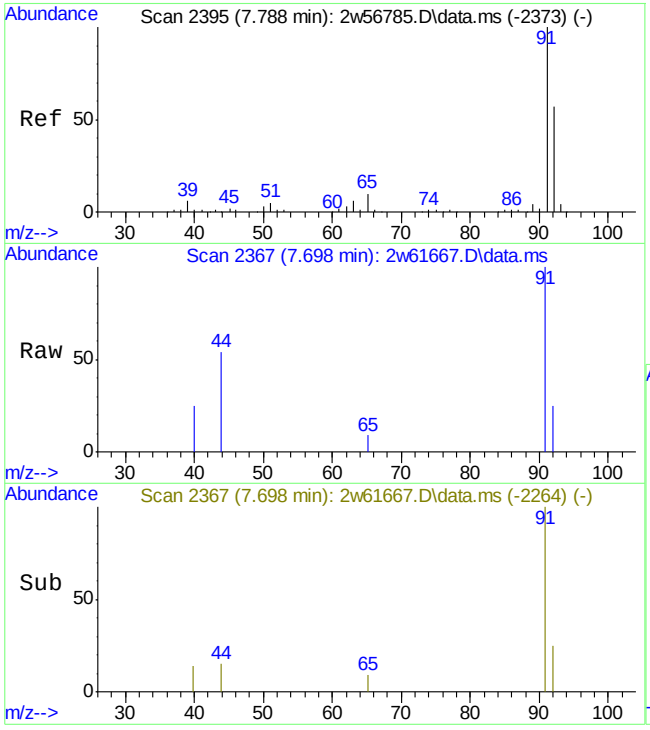



#55
TRICHLOROETHENE
Concen: 30.20 PPBV
RT: 5.518 min Scan# 1689
Delta R.T. -0.000 min
Lab File: 2w61667.D
Acq: 29 Sep 2022 5:52 pm

Tgt Ion: 95 Resp: 402321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 97.0 | 82.8 | 124.2 |
| 132 | 93.7 | 79.3 | 118.9 |
| 97 | 65.5 | 52.0 | 78.0 |

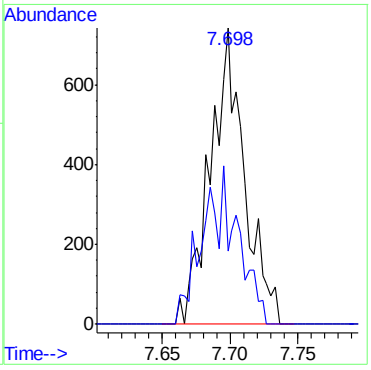



#66
TOLUENE
Concen: 0.03 PPBV
RT: 7.698 min Scan# 2367
Delta R.T. -0.000 min
Lab File: 2w61667.D
Acq: 29 Sep 2022 5:52 pm

Tgt Ion: 91 Resp: 1305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.8 | 39.3 | 79.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61692.D
Acq On : 30 Sep 2022 12:43 pm
Operator : thomash
Sample : jd52620-11(a791,m230)
Misc : MS62557,V2w2737,400,,,,1120
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 03 13:11:04 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

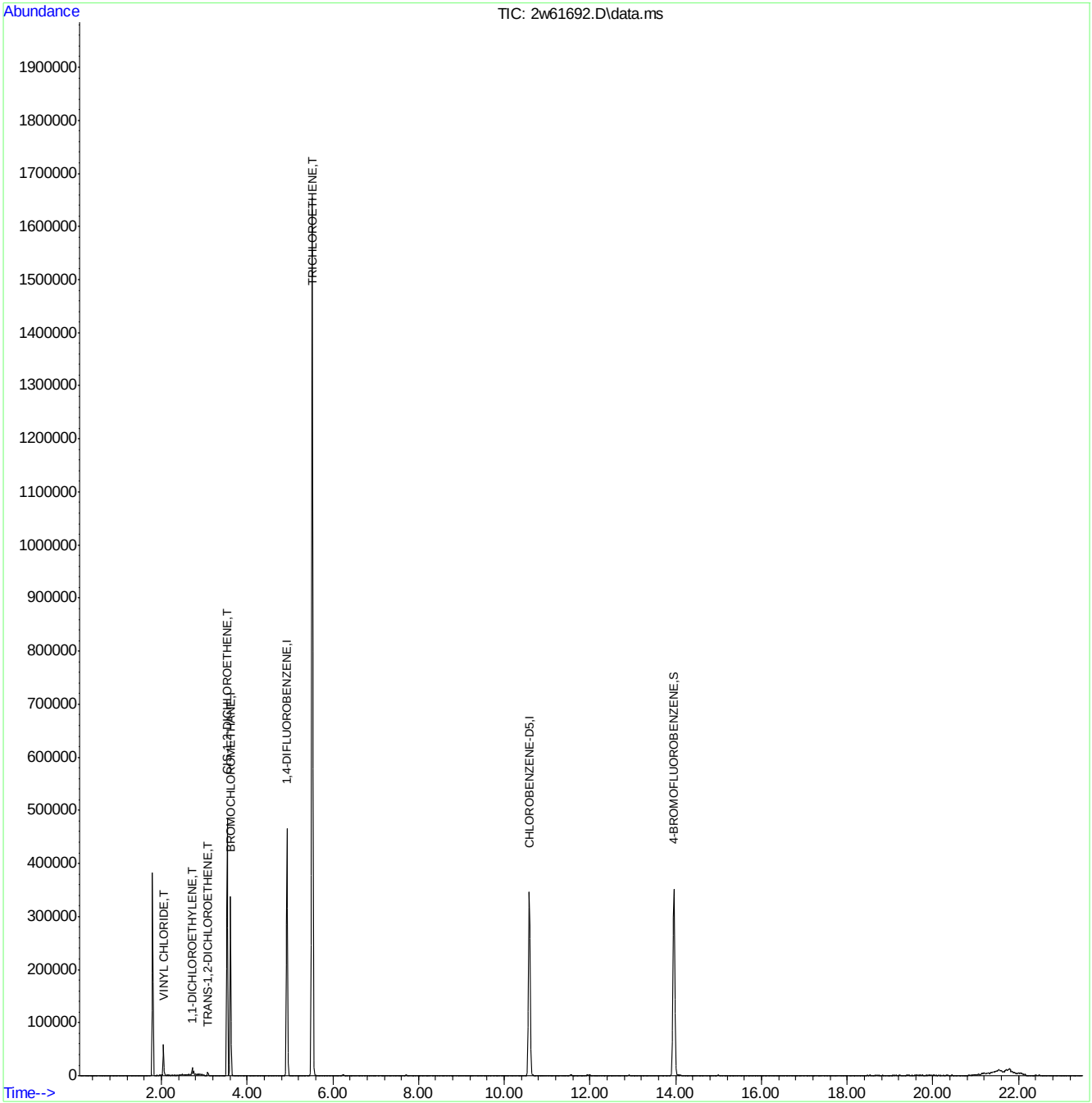
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.612 | 128 | 68493 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 355679 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 308446 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.955 | 95 | 215361 | 10.49 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 11) VINYL CHLORIDE | 2.046 | 62 | 45254 | 3.80 | PPBV | 99 |
| 26) 1,1-DICHLOROETHYLENE | 2.718 | 96 | 2447 | 0.18 | PPBV | 95 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 1758 | 0.16 | PPBV | 96 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 149243 | 12.27 | PPBV | 94 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 568220 | 37.69 | PPBV | 95 |

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

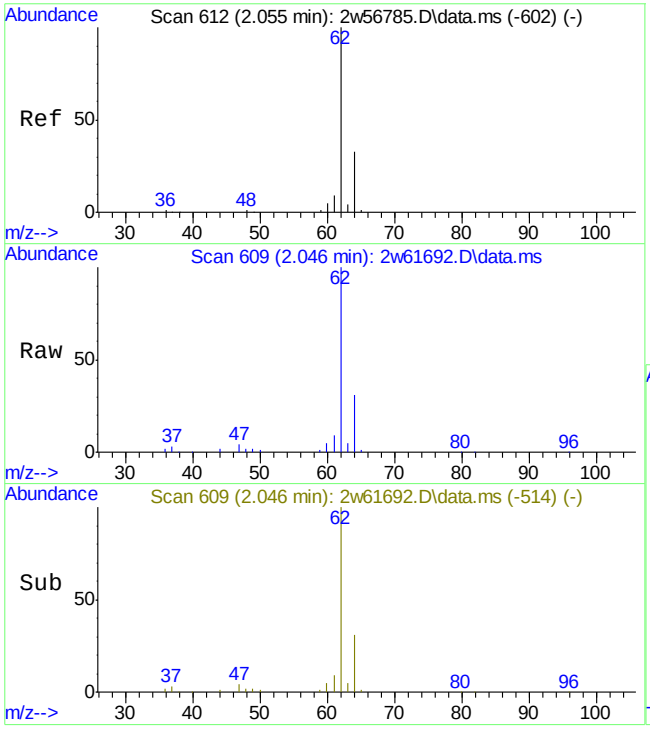
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61692.D
Acq On : 30 Sep 2022 12:43 pm
Operator : thomash
Sample : jd52620-11(a791,m230)
Misc : MS62557,V2w2737,400,,,,1120
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 03 13:11:04 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



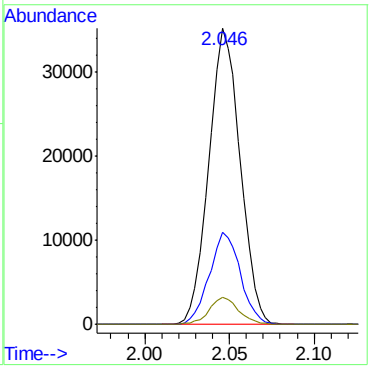

M2W2709.M Mon Oct 03 13:16:43 2022 GCMS2W Page: 2

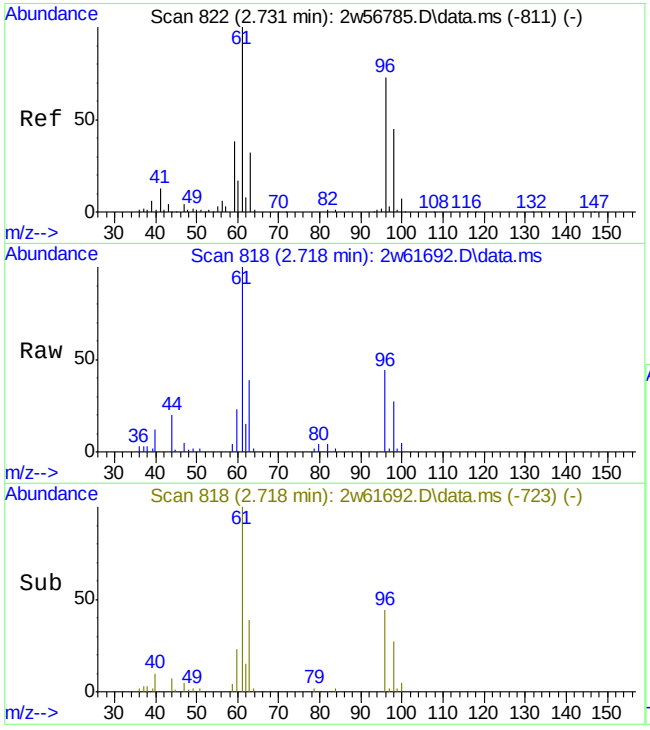



#11
VINYL CHLORIDE
Concen: 3.80 PPBV
RT: 2.046 min Scan# 609
Delta R.T. 0.006 min
Lab File: 2w61692.D
Acq: 30 Sep 2022 12:43 pm

Tgt Ion: 62 Resp: 45254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.8 | 25.2 | 37.8 |
| 61 | 8.6 | 7.0 | 10.4 |

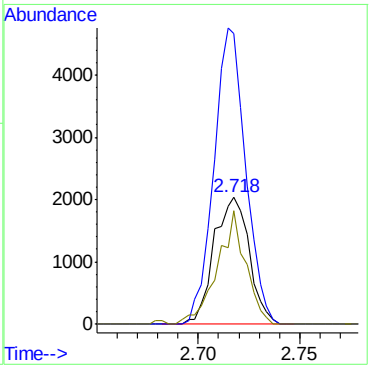


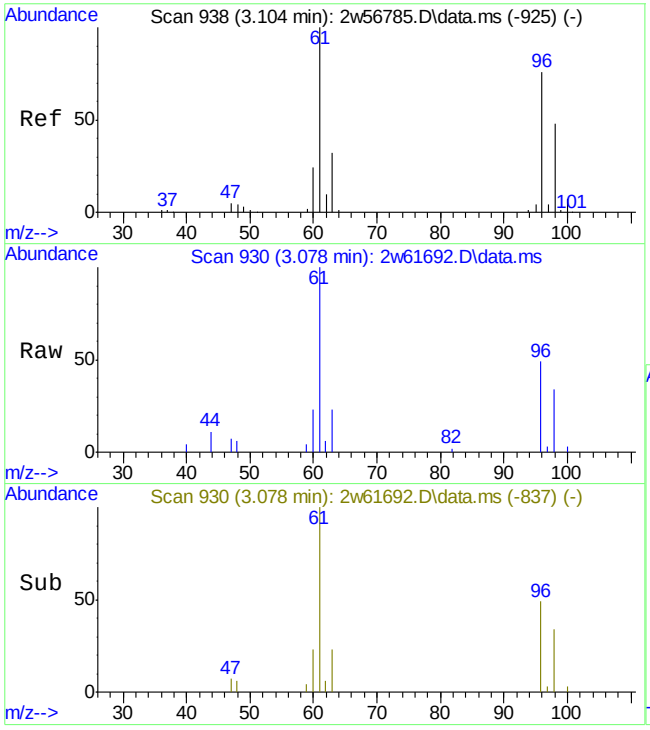




#26
1,1-DICHLOROETHYLENE
Concen: 0.18 PPBV
RT: 2.718 min Scan# 818
Delta R.T. 0.006 min
Lab File: 2w61692.D
Acq: 30 Sep 2022 12:43 pm

Tgt Ion: 96 Resp: 2447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 211.8 | 166.0 | 249.0 |
| 63 | 73.0 | 52.0 | 78.0 |

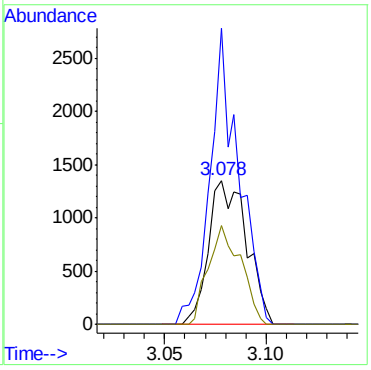


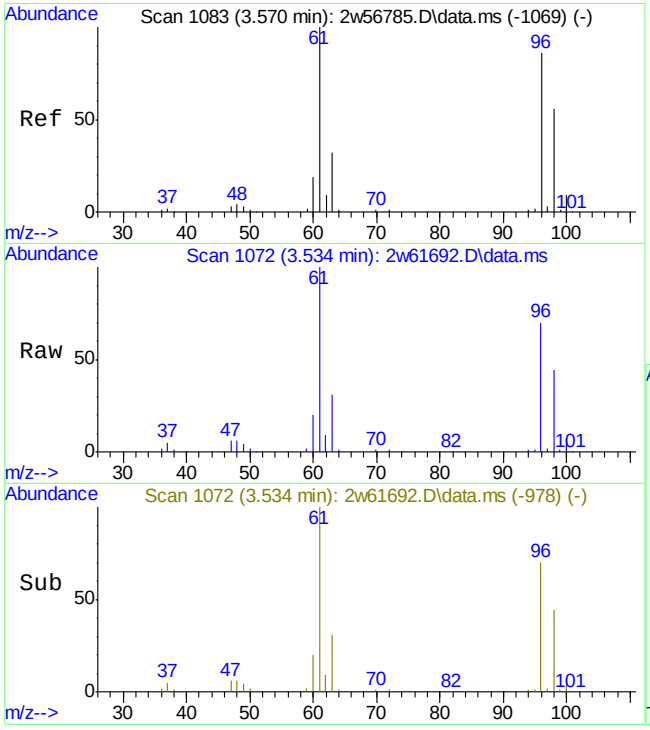



#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.16 PPBV
RT: 3.078 min Scan# 930
Delta R.T. -0.000 min
Lab File: 2w61692.D
Acq: 30 Sep 2022 12:43 pm

Tgt Ion: 96 Resp: 1758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 155.1 | 121.8 | 182.8 |
| 98 | 58.6 | 51.4 | 77.0 |

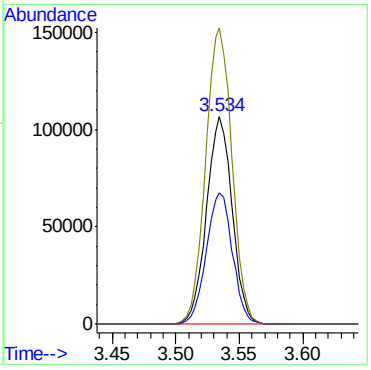


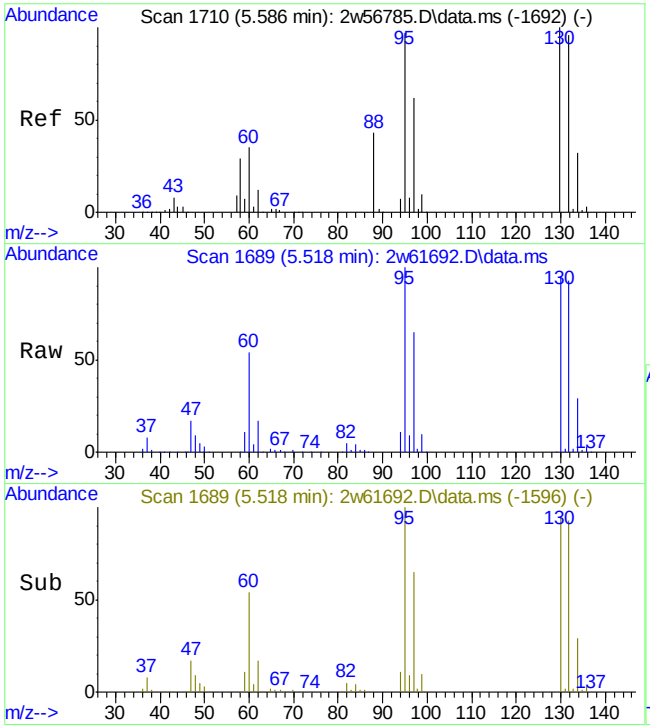




#42
CIS-1,2-DICHLOROETHENE
Concen: 12.27 PPBV
RT: 3.534 min Scan# 1072
Delta R.T. 0.003 min
Lab File: 2w61692.D
Acq: 30 Sep 2022 12:43 pm

Tgt Ion: 96 Resp: 149243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 64.6 | 51.0 | 76.6 |
| 61 | 146.6 | 109.5 | 164.3 |

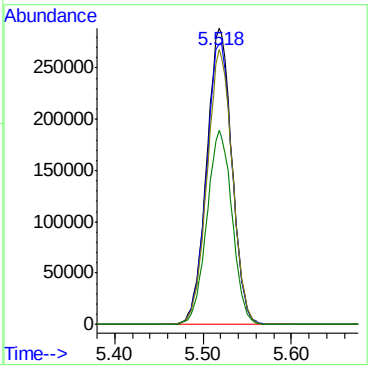





#55
TRICHLOROETHENE
Concen: 37.69 PPBV
RT: 5.518 min Scan# 1689
Delta R.T. -0.000 min
Lab File: 2w61692.D
Acq: 30 Sep 2022 12:43 pm

Tgt Ion: 95 Resp: 568220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 96.7 | 82.8 | 124.2 |
| 132 | 92.7 | 79.3 | 118.9 |
| 97 | 65.5 | 52.0 | 78.0 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61669.D
Acq On : 29 Sep 2022 6:55 pm
Operator : thomash
Sample : jd52620-12
Misc : MS62557,V2w2736,100,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 03 13:08:59 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

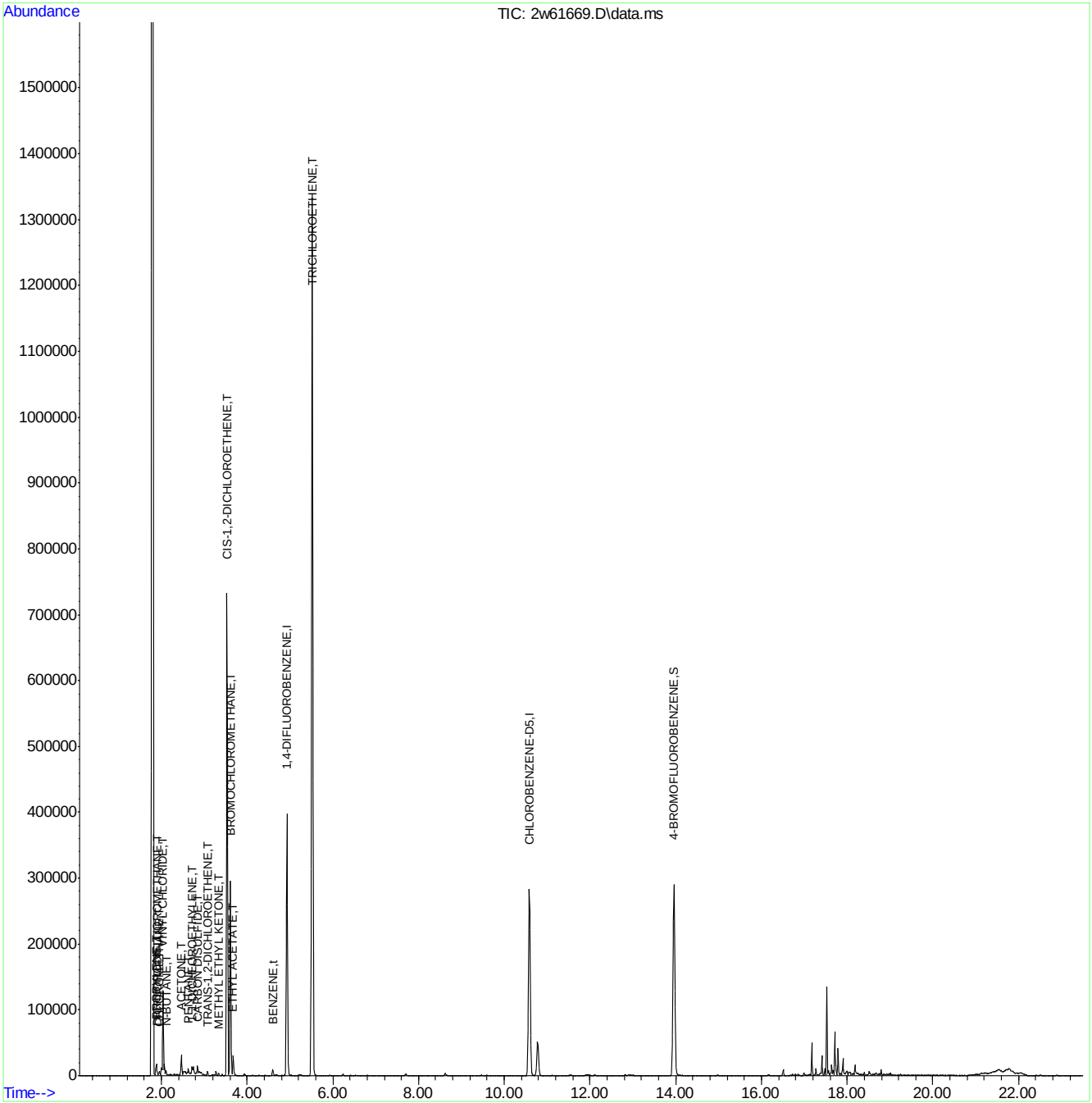
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.612 | 128 | 59188 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 304865 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 251451 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 175413 | 10.48 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 6) DICHLORODIFLUOROMETHANE | 1.898 | 85 | 2951 | 0.10 | PPBV | # | 85 |
| 7) PROPYLENE | 1.875 | 41 | 3407 | 0.61 | PPBV | # | 80 |
| 10) CHLOROMETHANE | 1.956 | 52 | 1589 | 0.54 | PPBV | # | 67 |
| 11) VINYL CHLORIDE | 2.036 | 62 | 98187 | 9.53 | PPBV | | 100 |
| 13) N-BUTANE | 2.107 | 43 | 4134 | 0.30 | PPBV | # | 96 |
| 23) ACETONE | 2.461 | 58 | 10725 | 1.38 | PPBV | # | 61 |
| 24) PENTANE | 2.628 | 42 | 2365 | 0.18 | PPBV | | 96 |
| 26) 1,1-DICHLOROETHYLENE | 2.715 | 96 | 2077 | 0.18 | PPBV | | 97 |
| 27) CARBON DISULFIDE | 2.843 | 76 | 7036 | 0.20 | PPBV | # | 75 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 1567 | 0.16 | PPBV | | 85 |
| 41) METHYL ETHYL KETONE | 3.332 | 72 | 902 | 0.21 | PPBV | # | 82 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 222897 | 21.20 | PPBV | | 94 |
| 44) ETHYL ACETATE | 3.673 | 61 | 4621 | 1.32 | PPBV | # | 1 |
| 51) BENZENE | 4.599 | 78 | 7738 | 0.25 | PPBV | | 96 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 456868 | 35.36 | PPBV | | 95 |

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

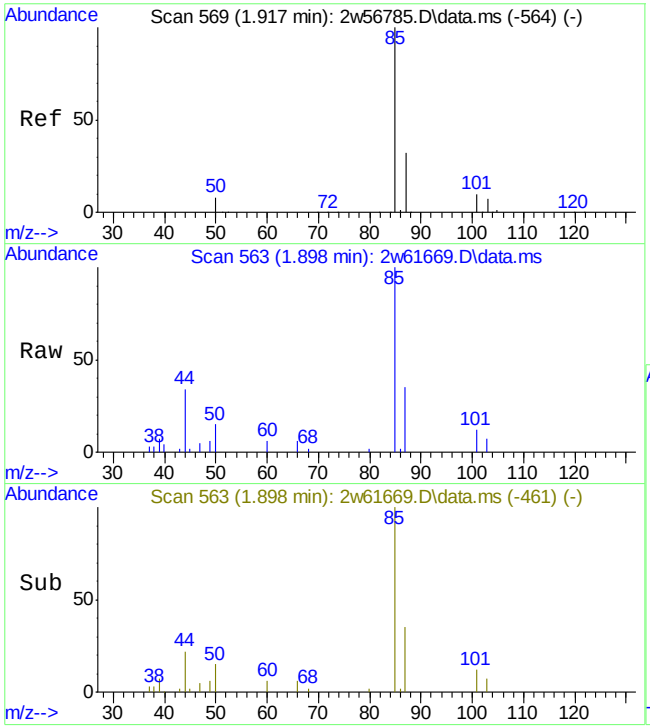
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61669.D
Acq On : 29 Sep 2022 6:55 pm
Operator : thomash
Sample : jd52620-12
Misc : MS62557,V2w2736,100,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 03 13:08:59 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



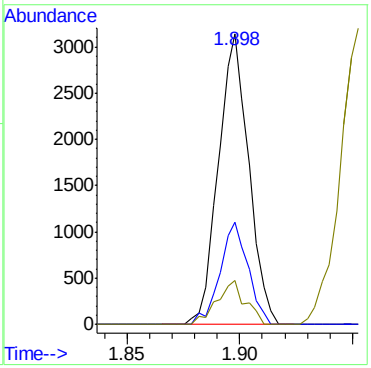

M2W2709.M Mon Oct 03 13:16:40 2022 GCMS2W Page: 2

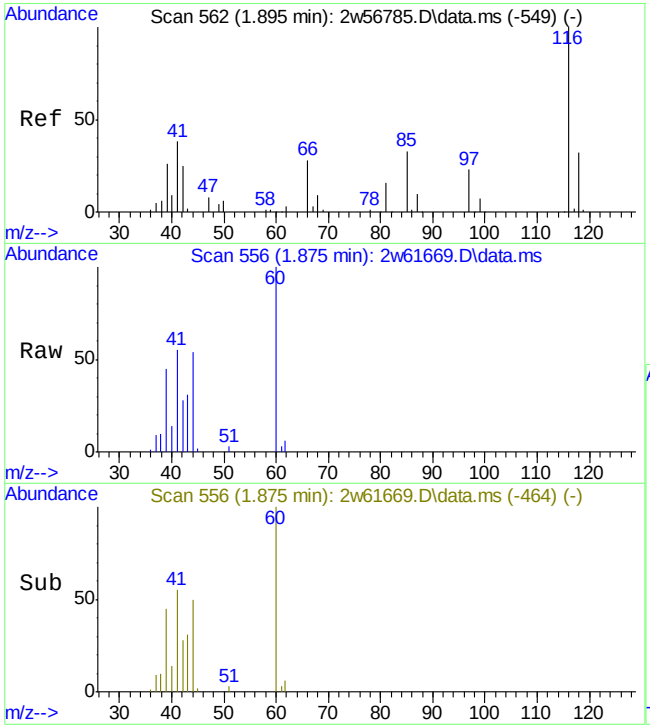



#6
DICHLORODIFLUOROMETHANE
Concen: 0.10 PPBV
RT: 1.898 min Scan# 563
Delta R.T. -0.003 min
Lab File: 2w61669.D
Acq: 29 Sep 2022 6:55 pm

Tgt Ion: 85 Resp: 2951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 25.9 | 38.9 |
| 50 | 0.0 | 14.6 | 21.8# |

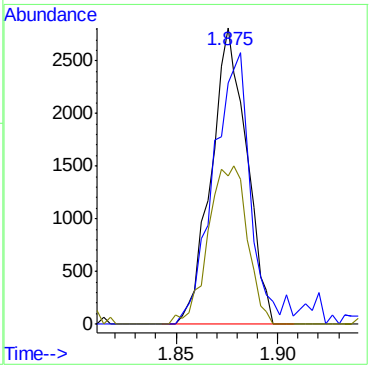


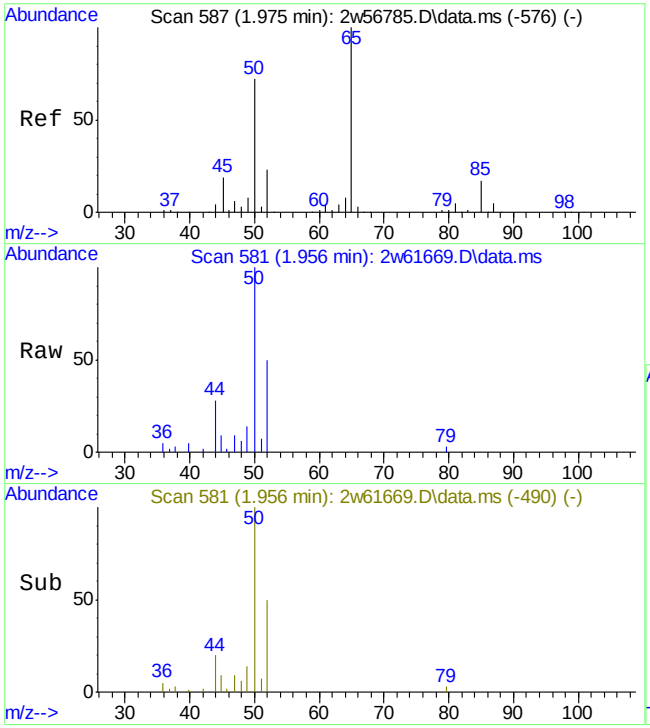




#7
PROPYLENE
Concen: 0.61 PPBV
RT: 1.875 min Scan# 556
Delta R.T. -0.003 min
Lab File: 2w61669.D
Acq: 29 Sep 2022 6:55 pm

Tgt Ion: 41 Resp: 3407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 96.3 | 57.7 | 86.5# |
| 42 | 58.9 | 53.5 | 80.3 |

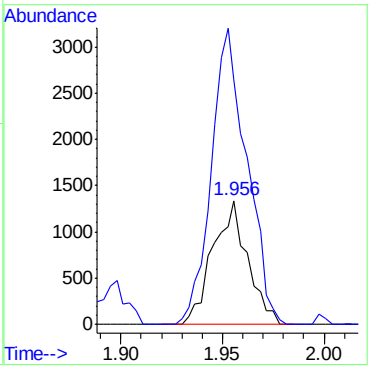


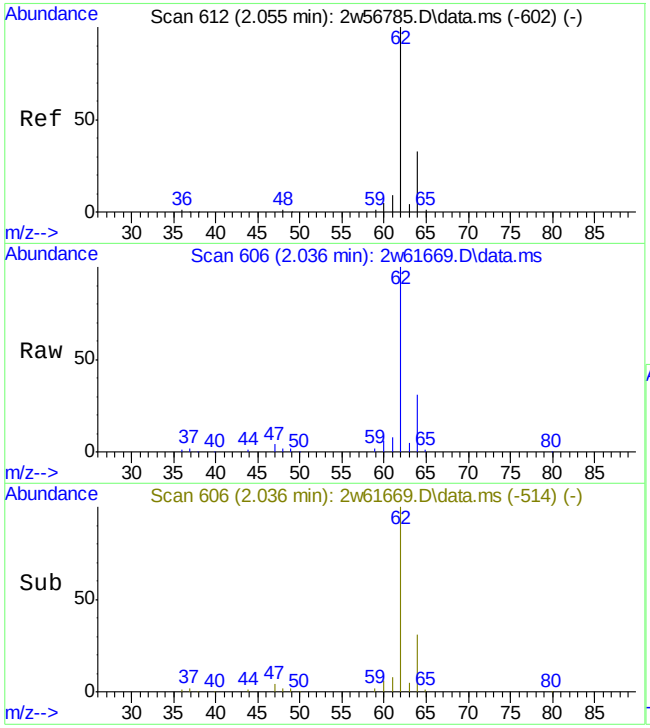



#10
CHLOROMETHANE
Concen: 0.54 PPBV
RT: 1.956 min Scan# 581
Delta R.T. -0.007 min
Lab File: 2w61669.D
Acq: 29 Sep 2022 6:55 pm

Tgt Ion: 52 Resp: 1589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 52 | 100 | | |
| 50 | 245.7 | 249.6 | 374.4# |

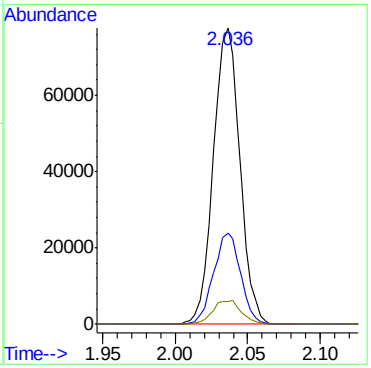


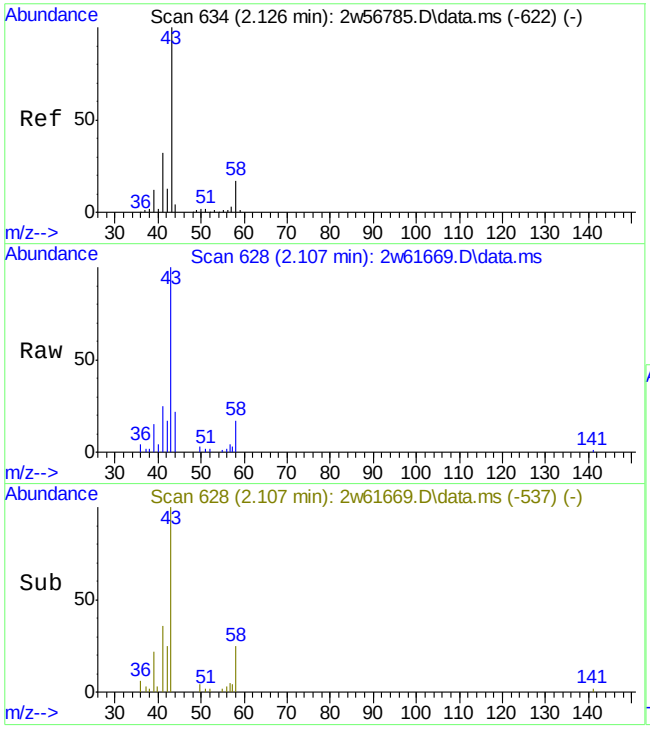




#11
VINYL CHLORIDE
Concen: 9.53 PPBV
RT: 2.036 min Scan# 606
Delta R.T. -0.003 min
Lab File: 2w61669.D
Acq: 29 Sep 2022 6:55 pm

Tgt Ion: 62 Resp: 98187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.3 | 25.2 | 37.8 |
| 61 | 8.4 | 7.0 | 10.4 |

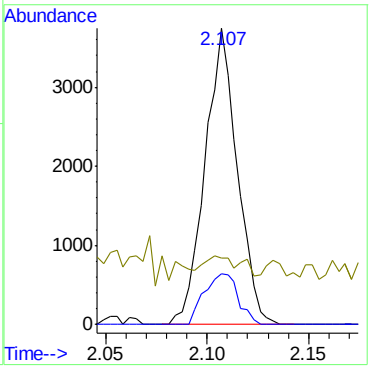


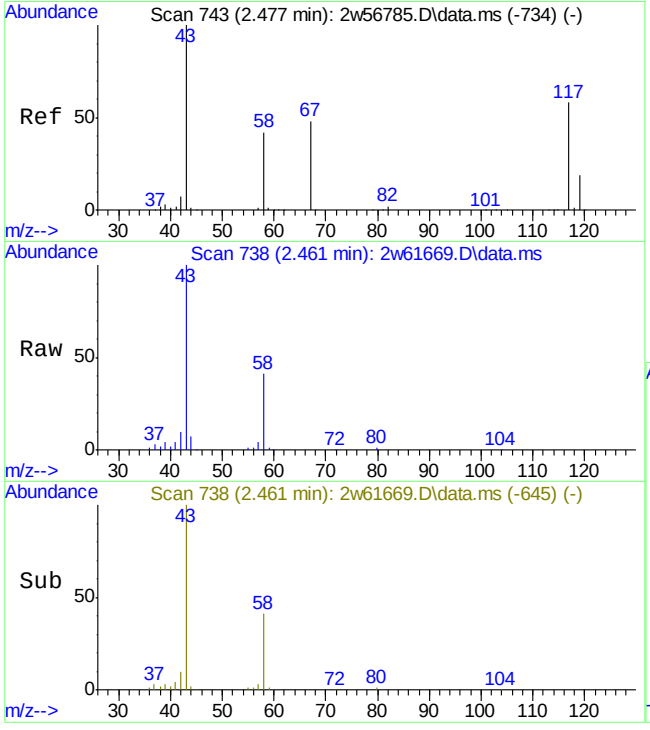



#13
N-BUTANE
Concen: 0.30 PPBV
RT: 2.107 min Scan# 628
Delta R.T. -0.007 min
Lab File: 2w61669.D
Acq: 29 Sep 2022 6:55 pm

Tgt Ion: 43 Resp: 4134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 17.8 | 15.0 | 22.4 |
| 44 | 0.0 | 3.4 | 5.2# |

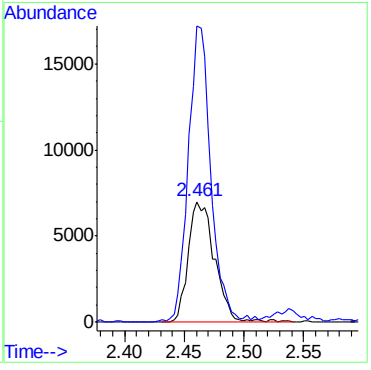


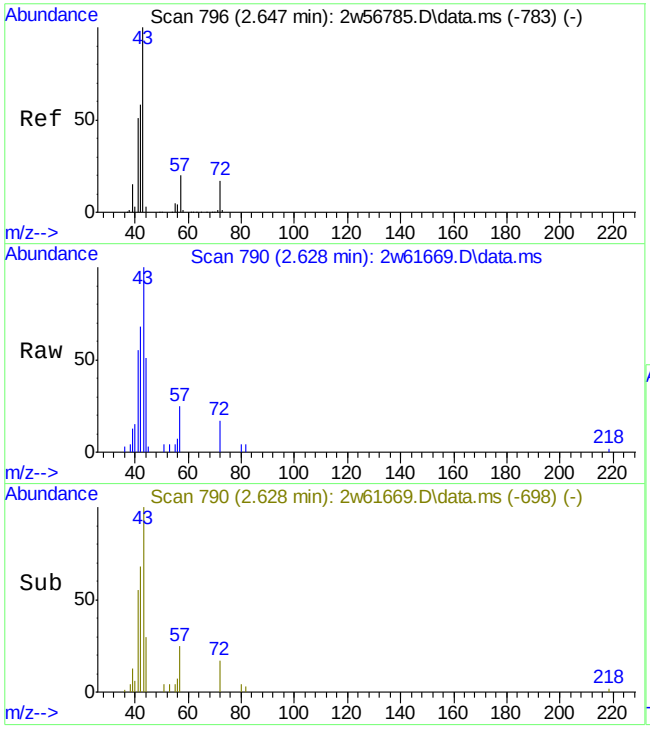




#23
ACETONE
Concen: 1.38 PPBV
RT: 2.461 min Scan# 738
Delta R.T. -0.000 min
Lab File: 2w61669.D
Acq: 29 Sep 2022 6:55 pm

Tgt Ion: 58 Resp: 10725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 212.3 | 229.9 | 344.9# |

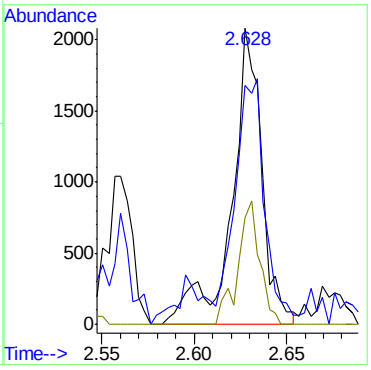


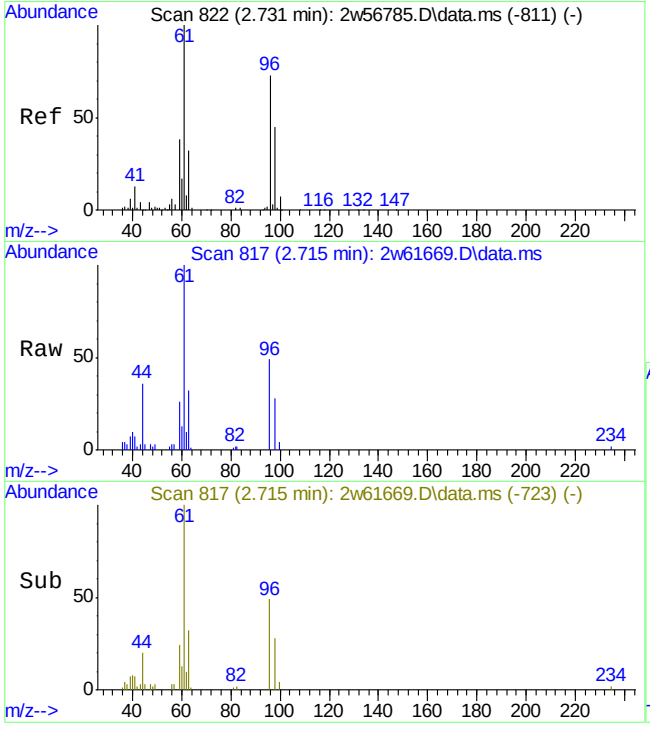



#24
PENTANE
Concen: 0.18 PPBV
RT: 2.628 min Scan# 790
Delta R.T. -0.003 min
Lab File: 2w61669.D
Acq: 29 Sep 2022 6:55 pm

Tgt Ion: 42 Resp: 2365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 41 | 90.3 | 75.7 | 113.5 |
| 57 | 30.1 | 25.0 | 37.6 |

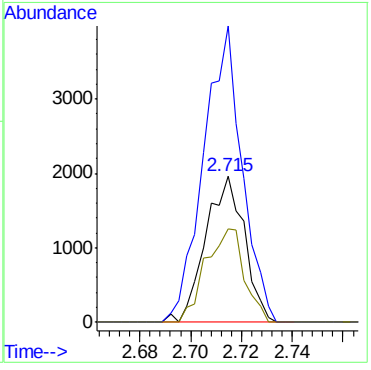


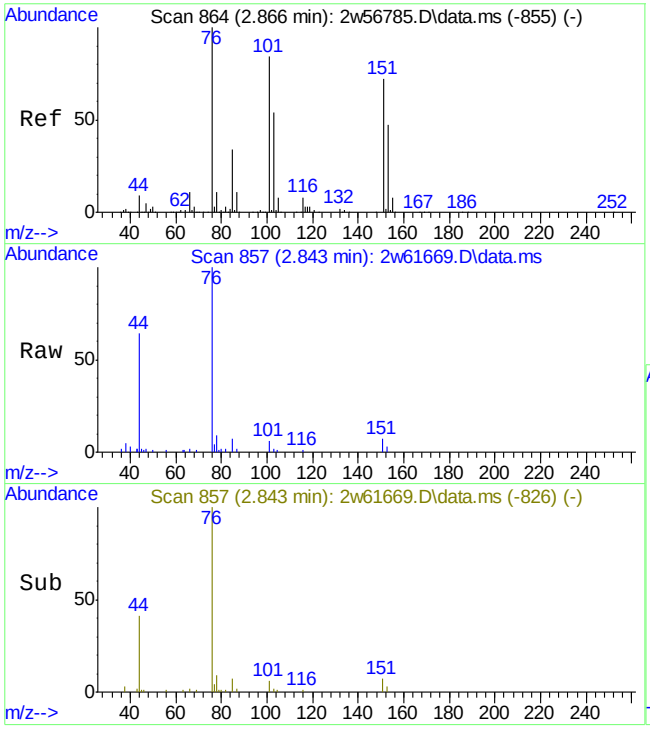




#26
1,1-DICHLOROETHYLENE
Concen: 0.18 PPBV
RT: 2.715 min Scan# 817
Delta R.T. 0.003 min
Lab File: 2w61669.D
Acq: 29 Sep 2022 6:55 pm

Tgt Ion: 96 Resp: 2077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 202.0 | 166.0 | 249.0 |
| 63 | 63.6 | 52.0 | 78.0 |

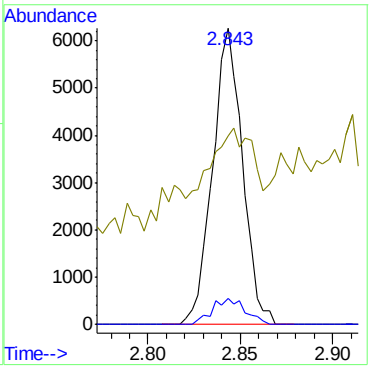


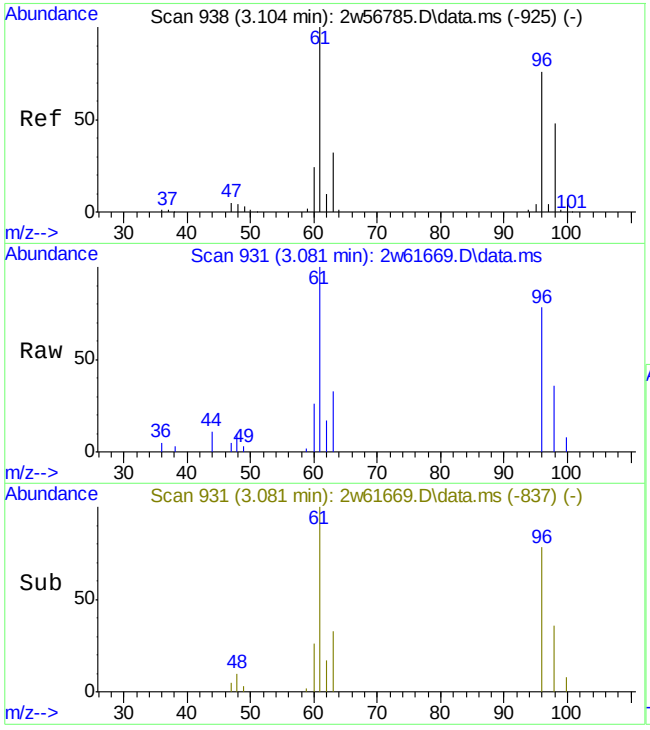



#27
CARBON DISULFIDE
Concen: 0.20 PPBV
RT: 2.843 min Scan# 857
Delta R.T. -0.000 min
Lab File: 2w61669.D
Acq: 29 Sep 2022 6:55 pm

Tgt Ion: 76 Resp: 7036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.5 | 8.9 | 13.3 |
| 44 | 34.8 | 14.4 | 21.6# |

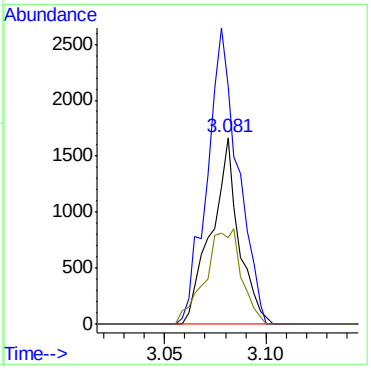


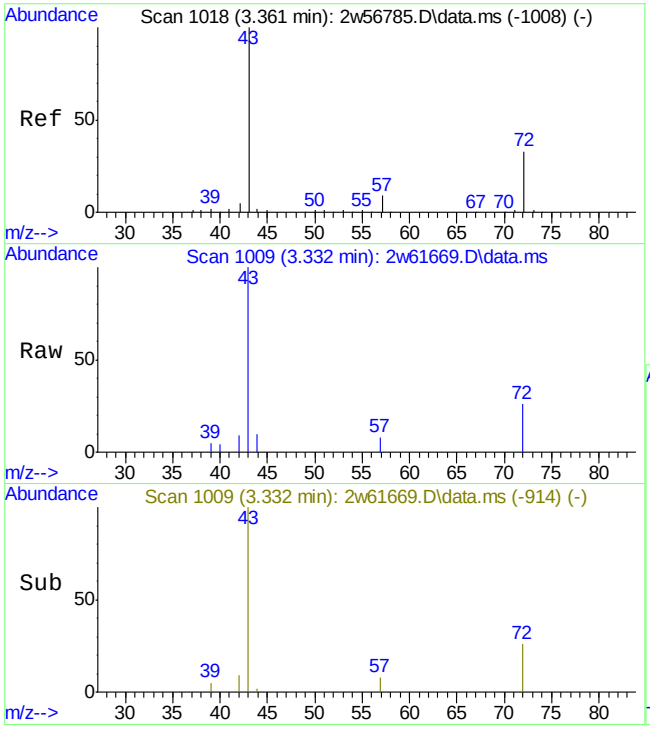




#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.16 PPBV
RT: 3.081 min Scan# 931
Delta R.T. 0.003 min
Lab File: 2w61669.D
Acq: 29 Sep 2022 6:55 pm

Tgt Ion: 96 Resp: 1567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 177.7 | 121.8 | 182.8 |
| 98 | 67.0 | 51.4 | 77.0 |

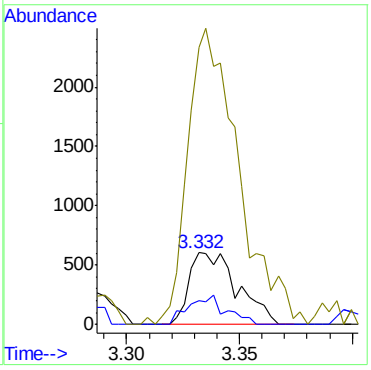


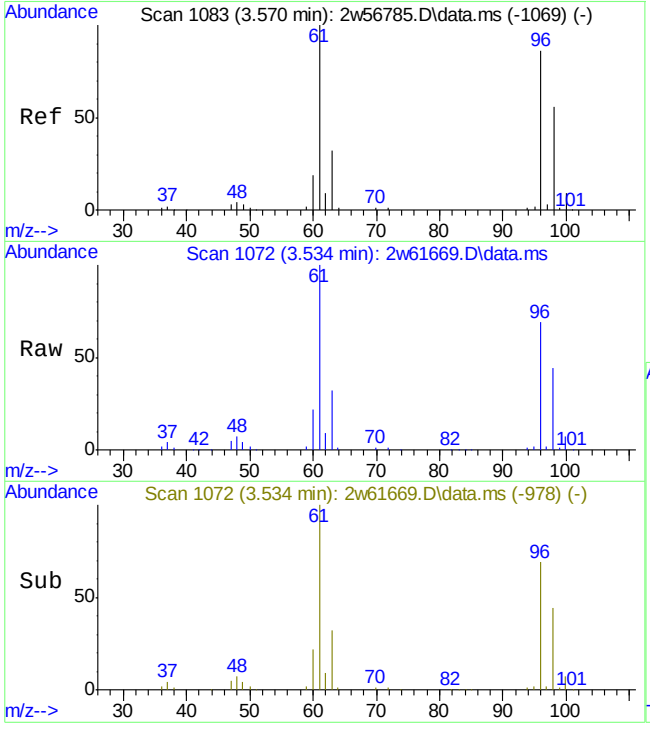



#41
METHYL ETHYL KETONE
Concen: 0.21 PPBV
RT: 3.332 min Scan# 1009
Delta R.T. 0.006 min
Lab File: 2w61669.D
Acq: 29 Sep 2022 6:55 pm

Tgt Ion: 72 Resp: 902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 72 | 100 | | |
| 57 | 0.0 | 29.1 | 43.7# |
| 43 | 435.8 | 321.0 | 481.4 |

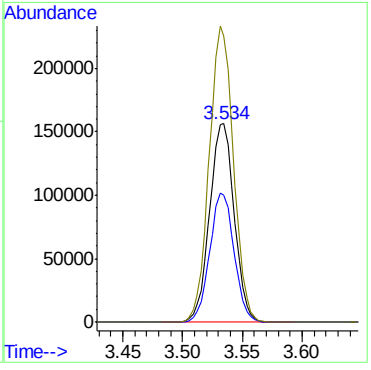


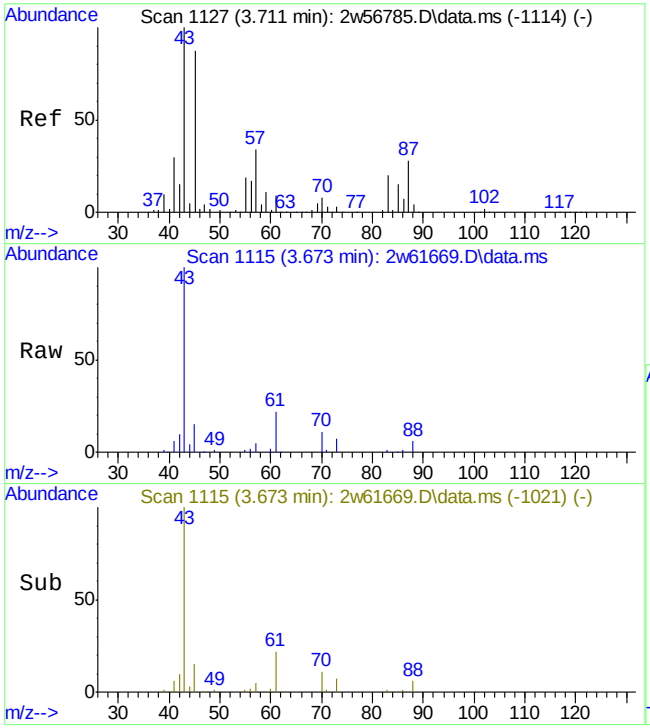




#42
CIS-1,2-DICHLOROETHENE
Concen: 21.20 PPBV
RT: 3.534 min Scan# 1072
Delta R.T. 0.003 min
Lab File: 2w61669.D
Acq: 29 Sep 2022 6:55 pm

Tgt Ion: 96 Resp: 222897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 64.2 | 51.0 | 76.6 |
| 61 | 146.8 | 109.5 | 164.3 |

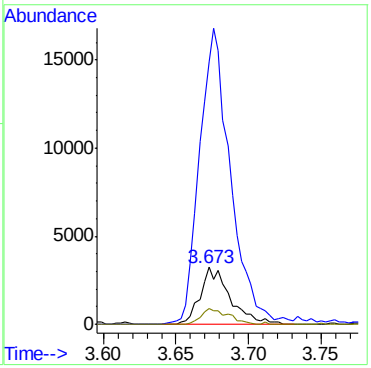


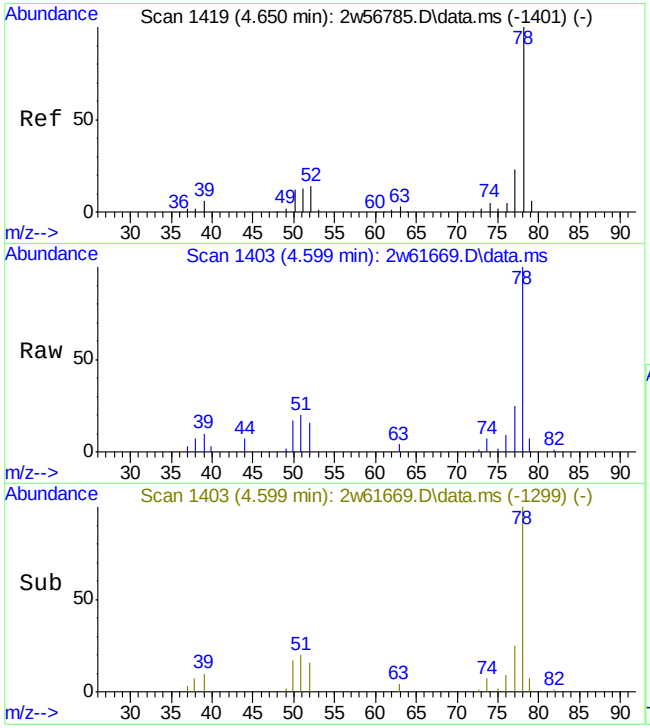



#44
ETHYL ACETATE
Concen: 1.32 PPBV
RT: 3.673 min Scan# 1115
Delta R.T. 0.003 min
Lab File: 2w61669.D
Acq: 29 Sep 2022 6:55 pm

Tgt Ion: 61 Resp: 4621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 551.5 | 1054.2 | 1581.2# |
| 88 | 25.5 | 34.4 | 51.6# |

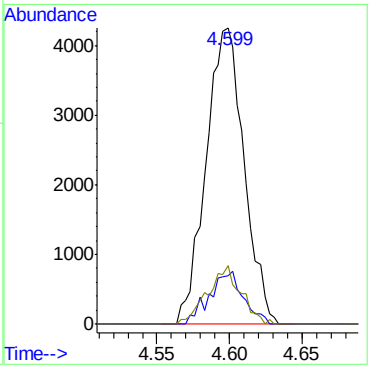


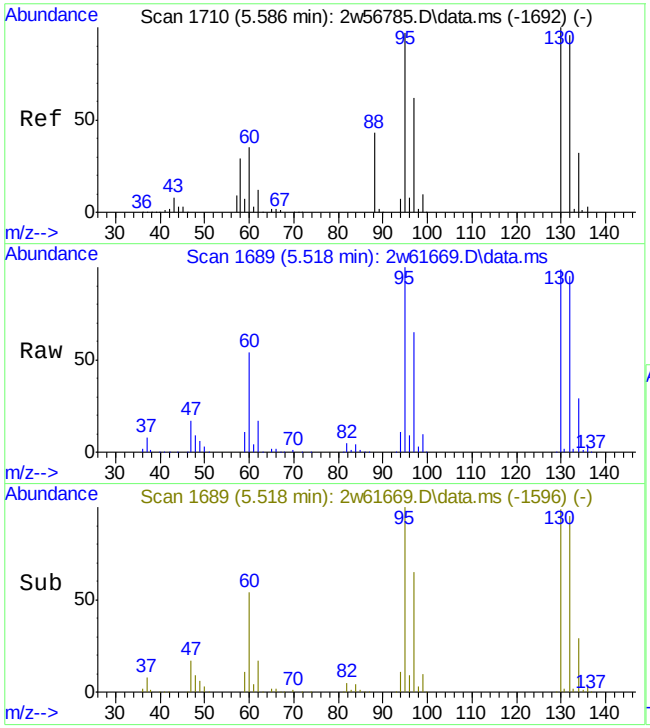




#51
BENZENE
Concen: 0.25 PPBV
RT: 4.599 min Scan# 1403
Delta R.T. 0.003 min
Lab File: 2w61669.D
Acq: 29 Sep 2022 6:55 pm

Tgt Ion: 78 Resp: 7738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 52 | 15.7 | 0.0 | 37.3 |
| 51 | 17.1 | 0.0 | 38.9 |

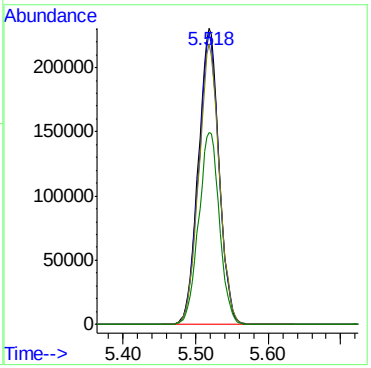





#55
TRICHLOROETHENE
Concen: 35.36 PPBV
RT: 5.518 min Scan# 1689
Delta R.T. -0.000 min
Lab File: 2w61669.D
Acq: 29 Sep 2022 6:55 pm

Tgt Ion: 95 Resp: 456868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 96.5 | 82.8 | 124.2 |
| 132 | 93.4 | 79.3 | 118.9 |
| 97 | 65.2 | 52.0 | 78.0 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61658.D
Acq On : 29 Sep 2022 12:44 pm
Operator : thomash
Sample : jd52620-13
Misc : MS62557,V2w2736,100,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 03 09:02:19 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

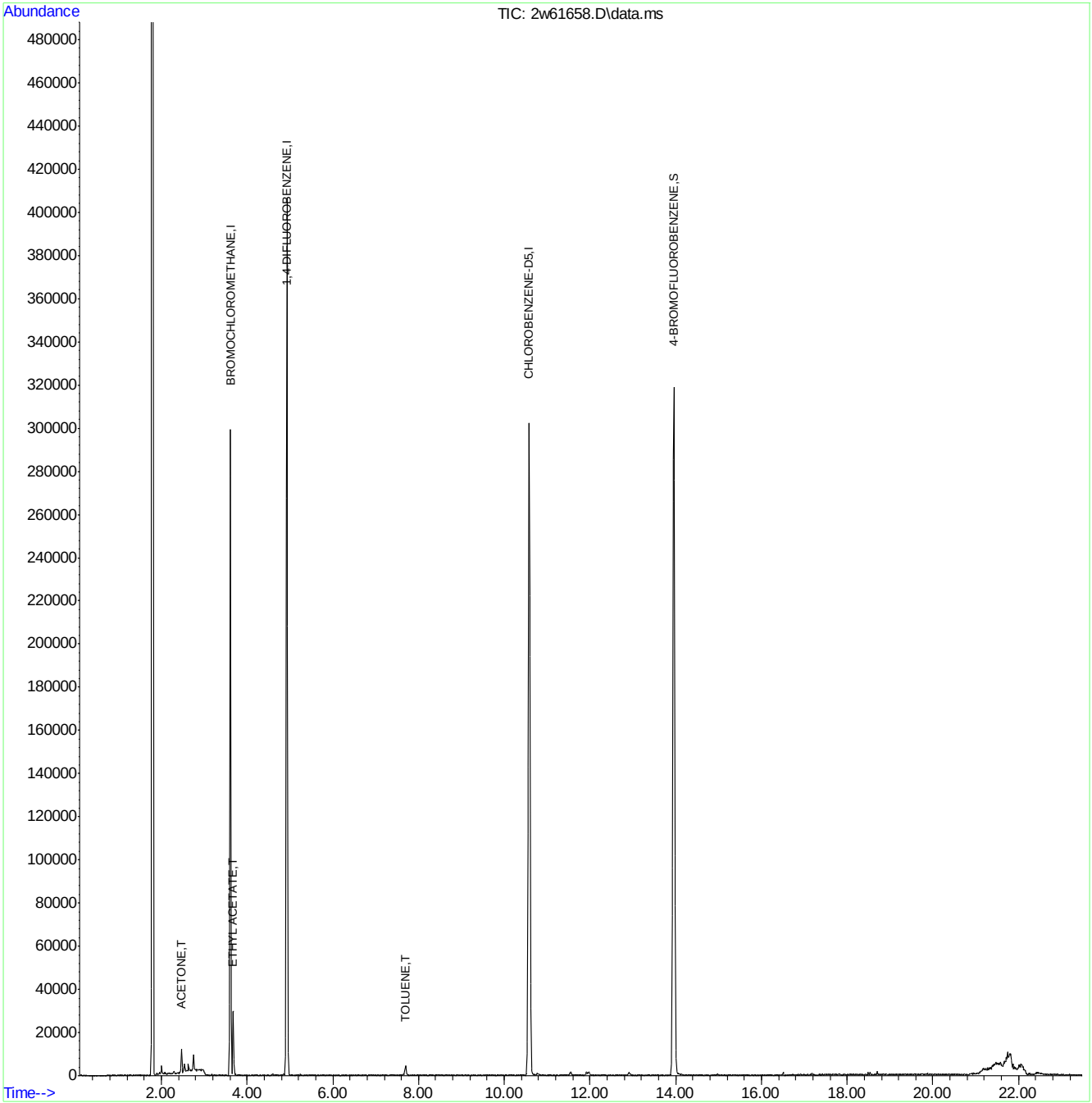
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.608 | 128 | 62557 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.923 | 114 | 321800 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.576 | 117 | 274731 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.955 | 95 | 192277 | 10.51 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 23) ACETONE | 2.464 | 58 | 2193 | 0.27 | PPBV # | 69 |
| 44) ETHYL ACETATE | 3.673 | 61 | 5077 | 1.37 | PPBV # | 1 |
| 66) TOLUENE | 7.698 | 91 | 4372 | 0.11 | PPBV | 94 |

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

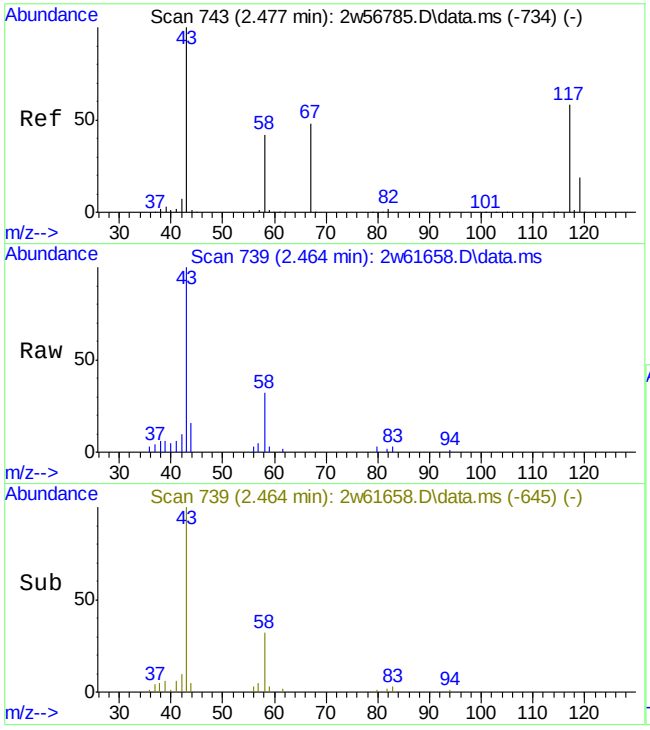
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61658.D
Acq On : 29 Sep 2022 12:44 pm
Operator : thomash
Sample : jd52620-13
Misc : MS62557,V2w2736,100,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 03 09:02:19 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



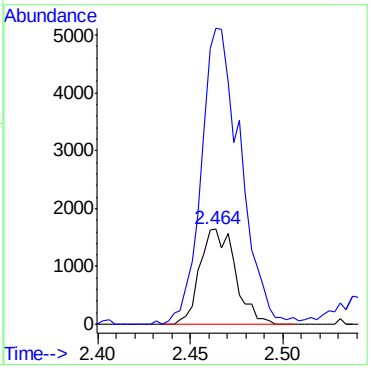

M2W2709.M Mon Oct 03 13:16:16 2022 GCMS2W Page: 2

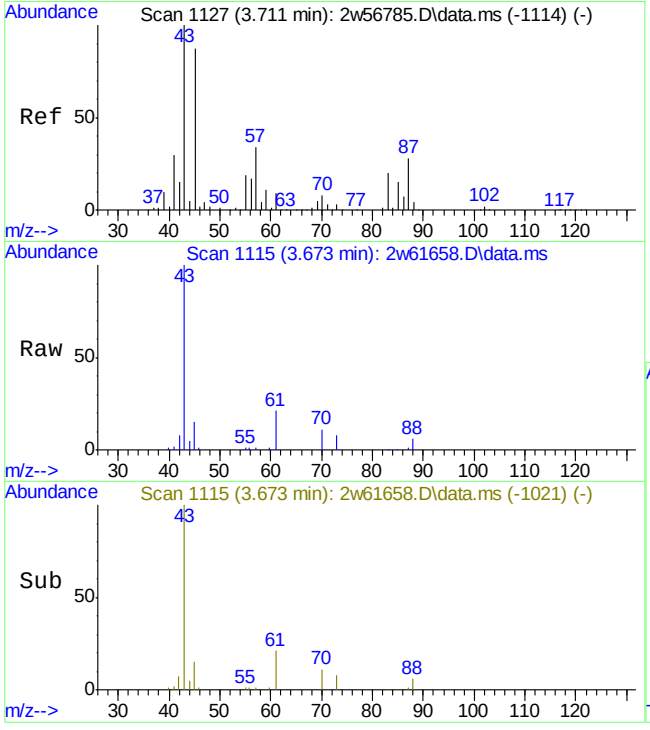



#23
ACETONE
Concen: 0.27 PPBV
RT: 2.464 min Scan# 739
Delta R.T. 0.003 min
Lab File: 2w61658.D
Acq: 29 Sep 2022 12:44 pm

Tgt Ion: 58 Resp: 2193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 346.1 | 229.9 | 344.9# |

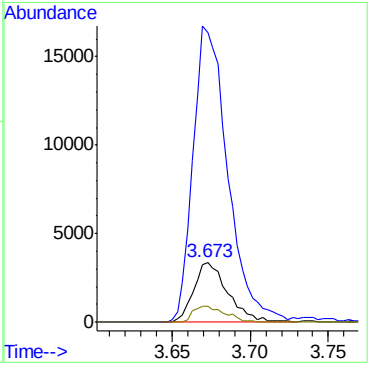


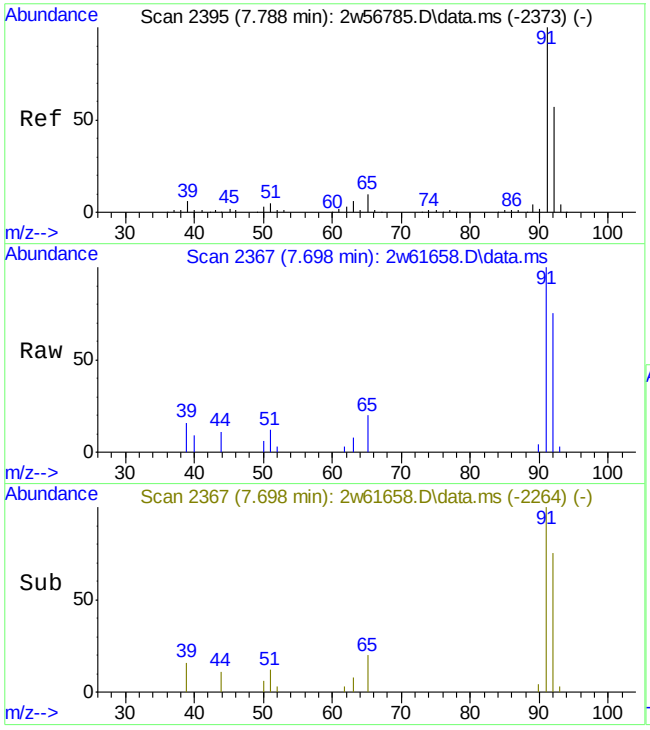




#44
ETHYL ACETATE
Concen: 1.37 PPBV
RT: 3.673 min Scan# 1115
Delta R.T. 0.003 min
Lab File: 2w61658.D
Acq: 29 Sep 2022 12:44 pm

Tgt Ion: 61 Resp: 5077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 518.9 | 1054.2 | 1581.2# |
| 88 | 24.8 | 34.4 | 51.6# |

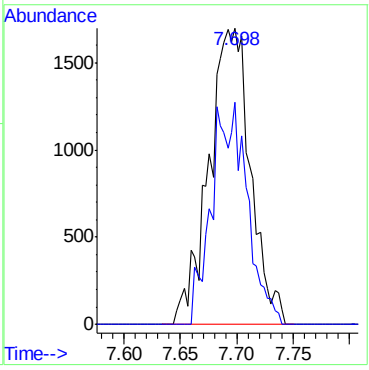





#66
TOLUENE
Concen: 0.11 PPBV
RT: 7.698 min Scan# 2367
Delta R.T. -0.000 min
Lab File: 2w61658.D
Acq: 29 Sep 2022 12:44 pm

Tgt Ion: 91 Resp: 4372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 64.0 | 39.3 | 79.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61637.D
Acq On : 28 Sep 2022 10:50 am
Operator : thomash
Sample : mb
Misc : MS62371,V2w2735,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 29 08:00:17 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

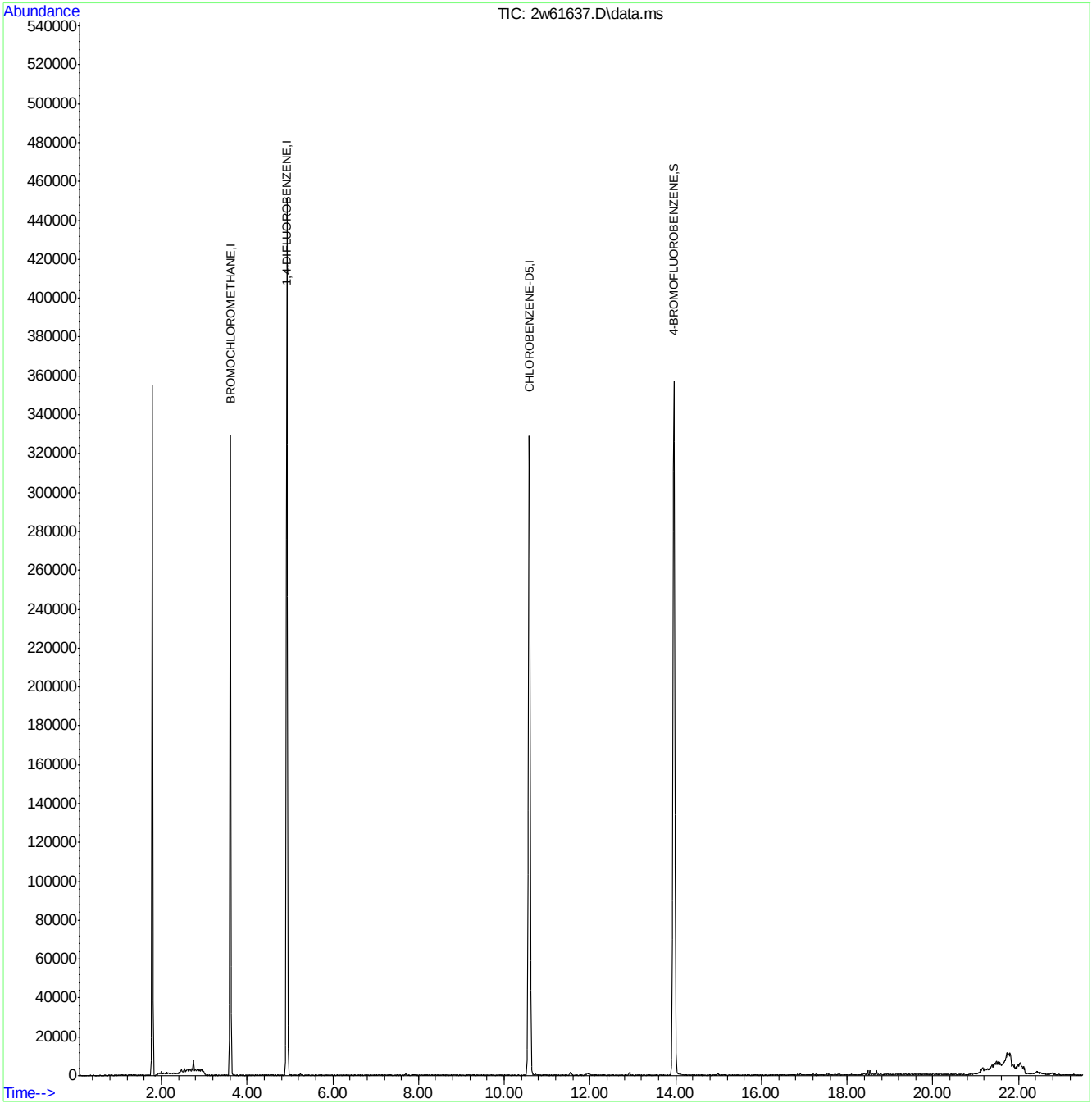
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.611 | 128 | 67250 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 357264 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 300667 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.955 | 95 | 215983 | 10.79 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61637.D
Acq On : 28 Sep 2022 10:50 am
Operator : thomash
Sample : mb
Misc : MS62371,V2w2735,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 29 08:00:17 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61657.D
Acq On : 29 Sep 2022 10:25 am
Operator : thomash
Sample : mb
Misc : MS62557,V2w2736,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 30 15:20:15 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

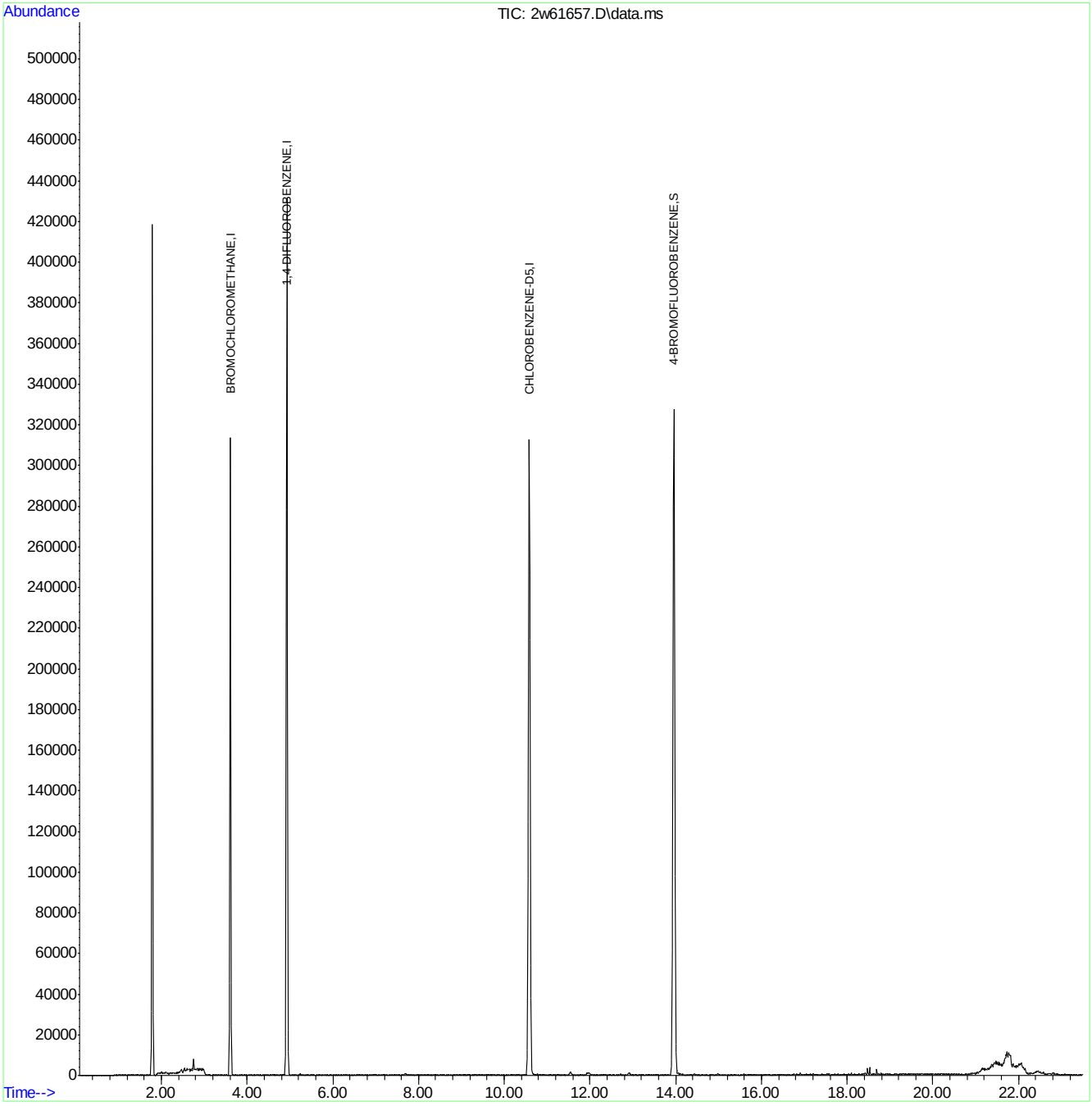
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.608 | 128 | 64927 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 338162 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 278029 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.955 | 95 | 197219 | 10.65 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61657.D
Acq On : 29 Sep 2022 10:25 am
Operator : thomash
Sample : mb
Misc : MS62557,V2w2736,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 30 15:20:15 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26141.D
Acq On : 29 Sep 2022 6:06 pm
Operator : thomash
Sample : mb
Misc : MS62314,V6W1111,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 30 13:42:37 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

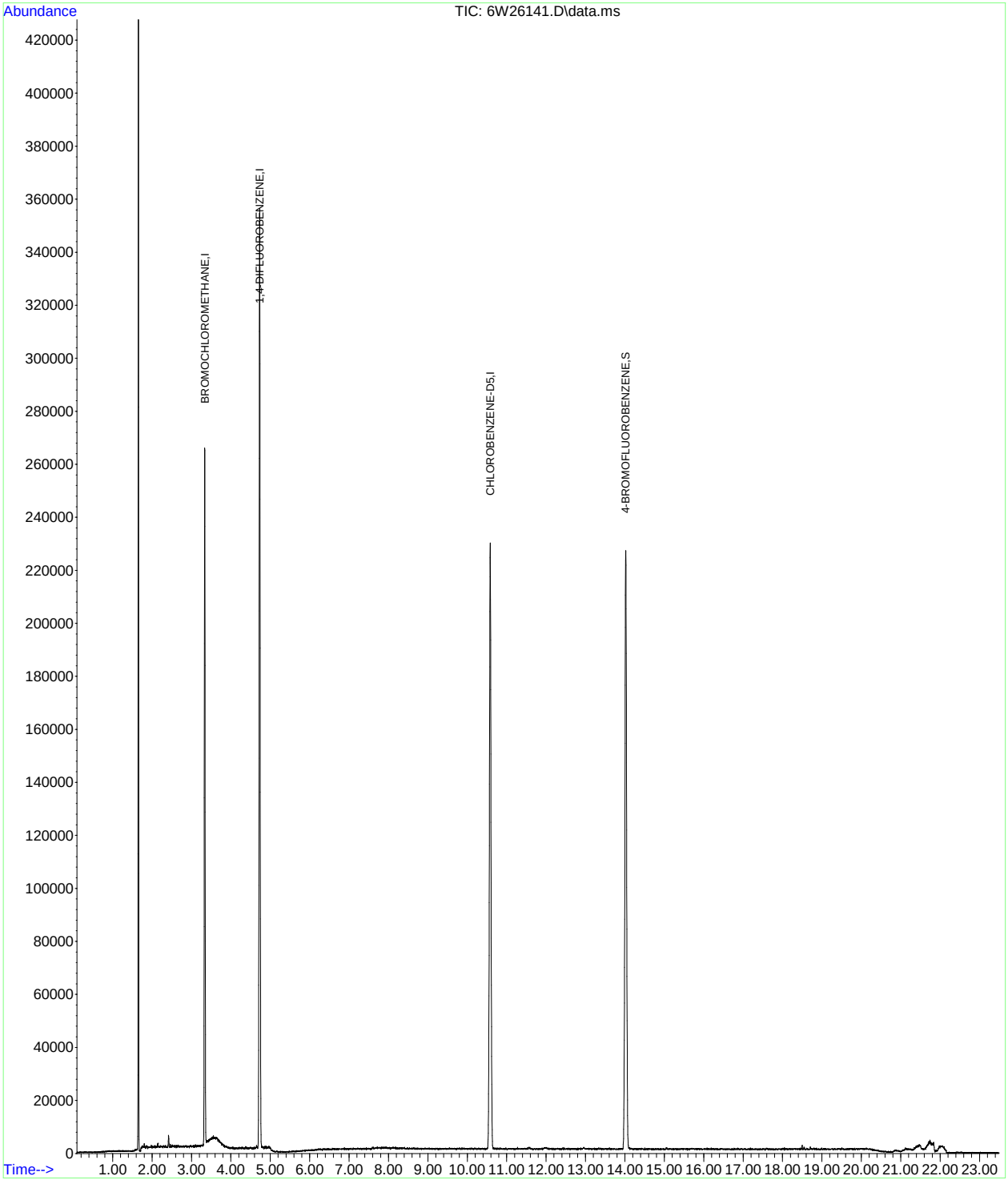
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 42284 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.731 | 114 | 242632 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.583 | 117 | 185206 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.016 | 95 | 131416 | 9.71 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26141.D
Acq On : 29 Sep 2022 6:06 pm
Operator : thomash
Sample : mb
Misc : MS62314,V6W1111,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 30 13:42:37 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61689.D
Acq On : 30 Sep 2022 10:47 am
Operator : thomash
Sample : mb
Misc : MS62556,V2w2737,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 30 15:22:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

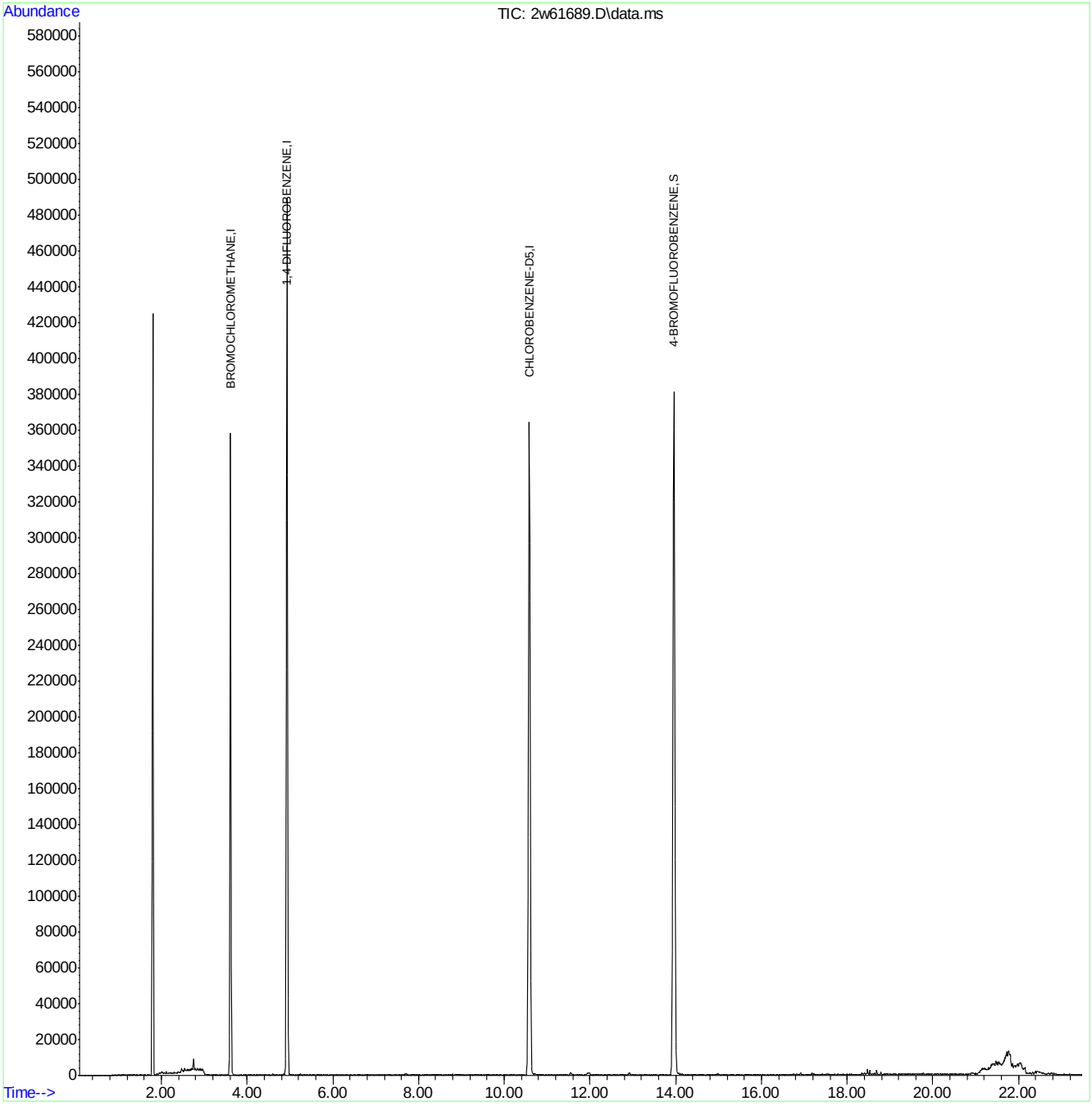
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.612 | 128 | 74416 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 386070 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 321362 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 227430 | 10.63 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61689.D
Acq On : 30 Sep 2022 10:47 am
Operator : thomash
Sample : mb
Misc : MS62556,V2w2737,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 30 15:22:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w59302.D
Acq On : 14 May 2022 6:25 pm
Operator : thomash
Sample : mb
Misc : MS58854,V2w2637,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 14 18:50:28 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration

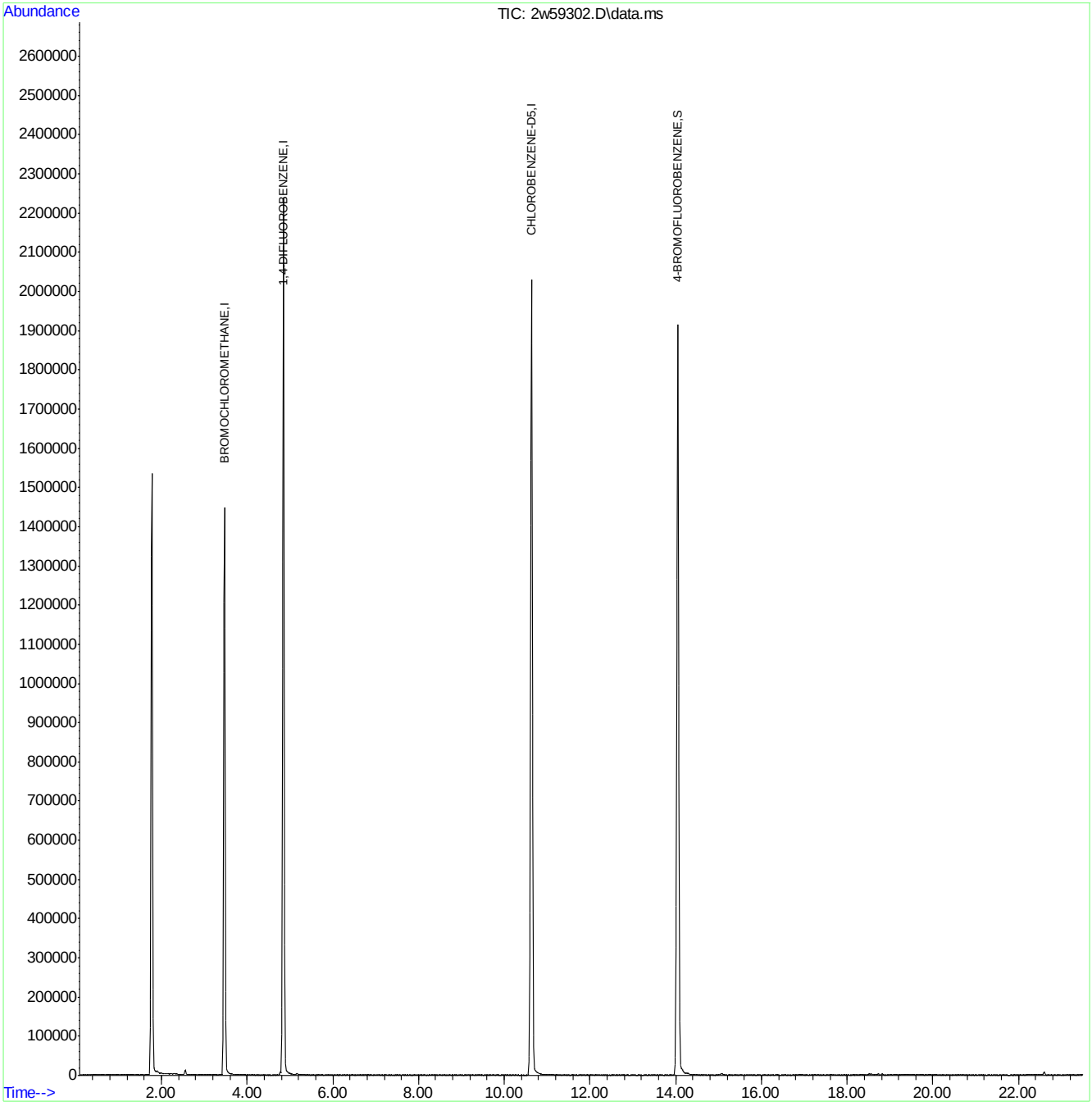
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.470 | 128 | 367313 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.846 | 114 | 1982883 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.634 | 117 | 1736178 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.049 | 95 | 1215258 | 9.66 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w59302.D
Acq On : 14 May 2022 6:25 pm
Operator : thomash
Sample : mb
Misc : MS58854,V2w2637,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 14 18:50:28 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61028.D
Acq On : 24 Aug 2022 10:32 pm
Operator : thomash
Sample : mb
Misc : MS61038,V2w2710,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 25 19:47:23 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

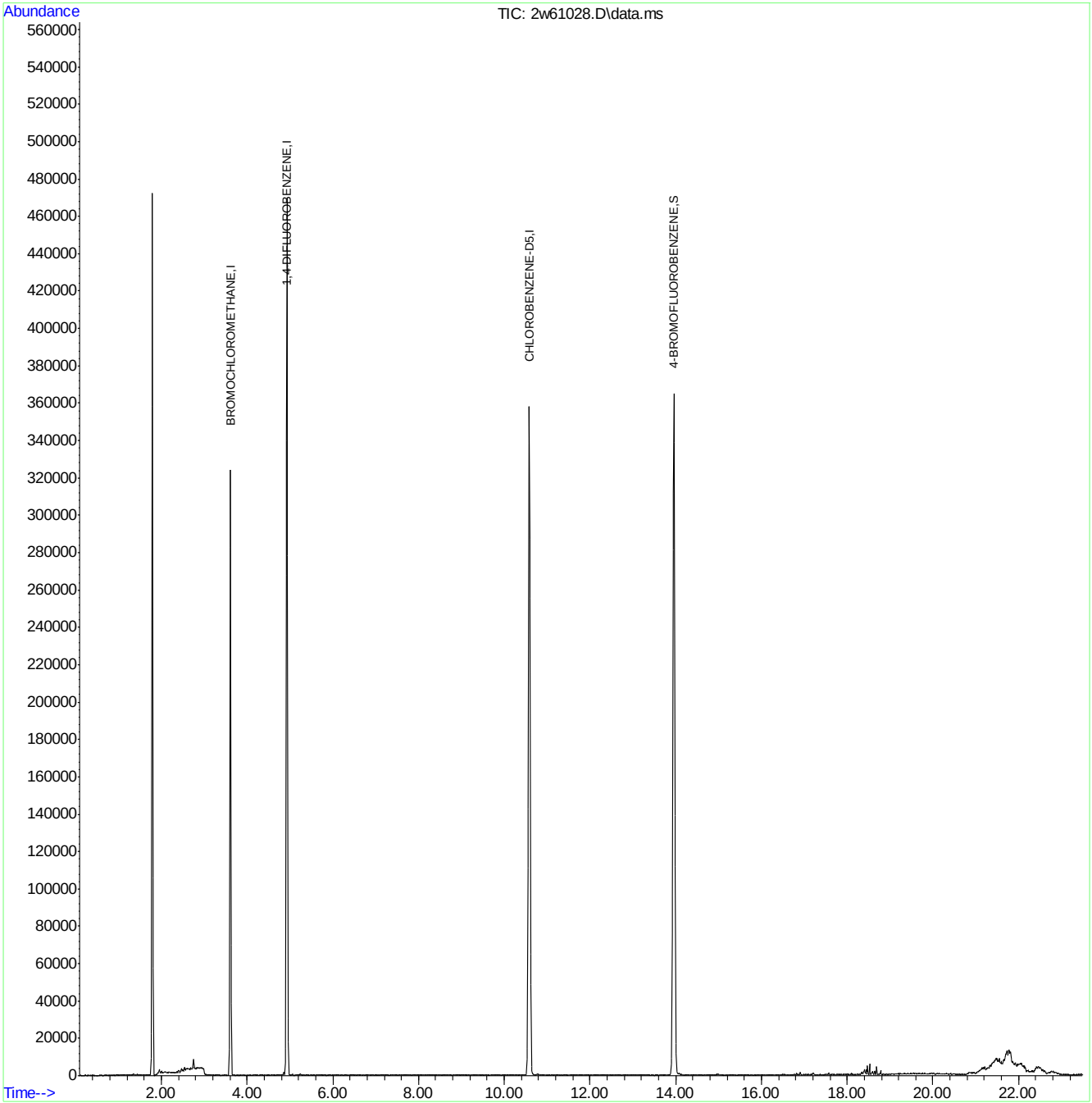
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.609 | 128 | 69994 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 386625 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.583 | 117 | 342388 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.959 | 95 | 221888 | 9.73 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61028.D
Acq On : 24 Aug 2022 10:32 pm
Operator : thomash
Sample : mb
Misc : MS61038,V2w2710,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 25 19:47:23 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61144.D
Acq On : 30 Aug 2022 12:13 pm
Operator : williamc
Sample : mb
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 10:58:37 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

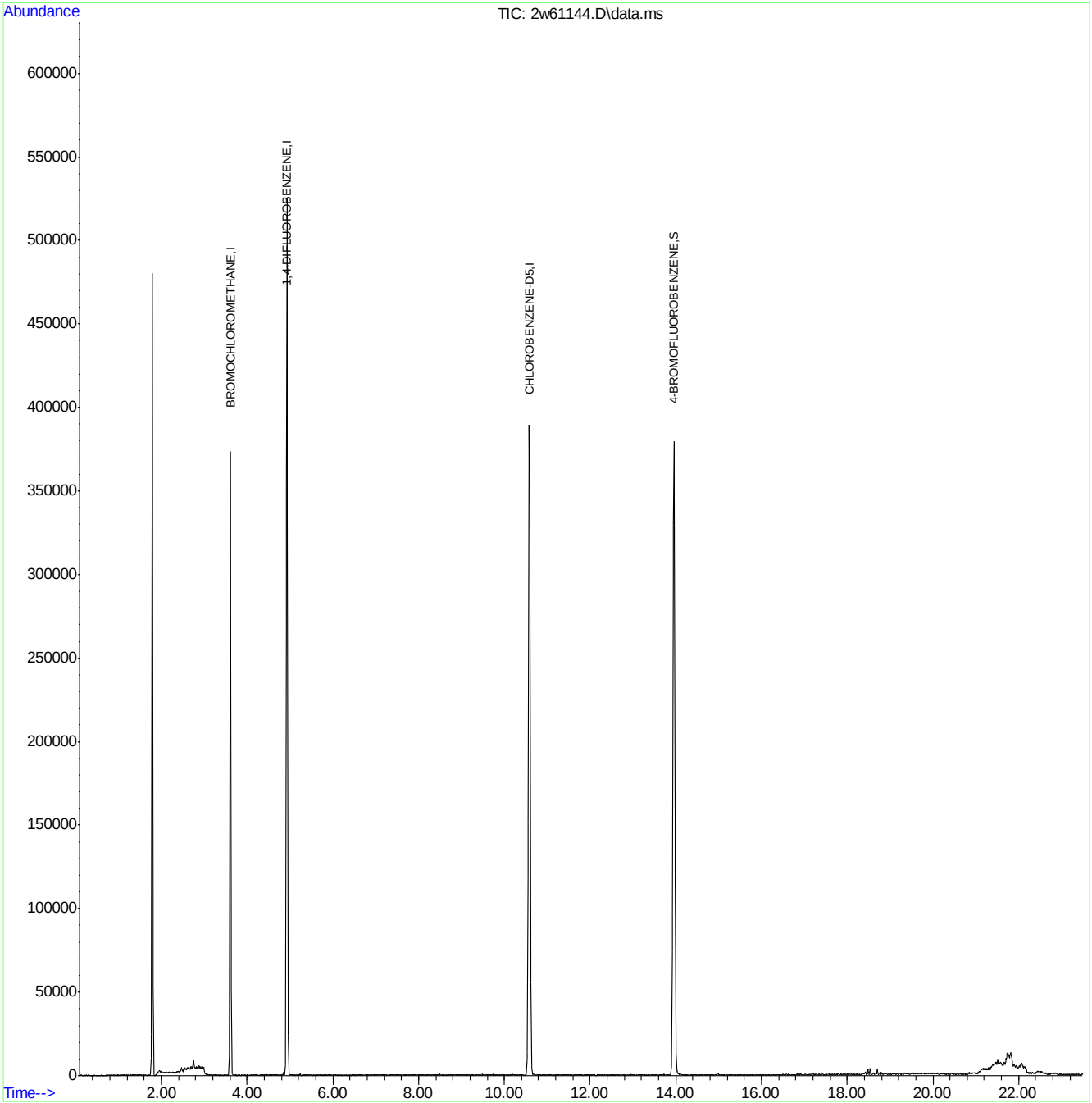
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.611 | 128 | 77018 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 415866 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.589 | 117 | 362740 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 230072 | 9.53 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61144.D
Acq On : 30 Aug 2022 12:13 pm
Operator : williamc
Sample : mb
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 10:58:37 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/22 11:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61634.D
Acq On : 28 Sep 2022 8:44 am
Operator : thomash
Sample : bs
Misc : MS62371,V2w2735,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 07:57:46 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.612 | 128 | 70966 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 361937 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 312957 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.962 | 95 | 234023 | 11.23 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.850 | 65 | 59030m | 9.89 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.866 | 67 | 25805 | 9.74 | PPBV | | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.882 | 116 | 138207 | 9.02 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.904 | 85 | 338911 | 9.60 | PPBV | | 99 |
| 7) PROPYLENE | 1.879 | 41 | 53225 | 7.99 | PPBV | | 98 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.953 | 65 | 267907 | 10.08 | PPBV | | 96 |
| 9) FREON 114 | 2.001 | 85 | 317108 | 9.97 | PPBV | | 98 |
| 10) CHLOROMETHANE | 1.962 | 52 | 30681 | 8.63 | PPBV | | 99 |
| 11) VINYL CHLORIDE | 2.043 | 62 | 132460 | 10.72 | PPBV | | 99 |
| 12) 1,3-BUTADIENE | 2.094 | 54 | 88218 | 9.25 | PPBV | | 97 |
| 13) N-BUTANE | 2.117 | 43 | 137389 | 8.27 | PPBV | | 96 |
| 14) BROMOMETHANE | 2.194 | 94 | 112764 | 10.11 | PPBV | | 100 |
| 15) CHLOROETHANE | 2.258 | 64 | 73224 | 11.08 | PPBV | | 94 |
| 16) DICHLOROFLUOROMETHANE | 2.290 | 67 | 272101 | 10.35 | PPBV | | 98 |
| 17) ACETONITRILE | 2.377 | 41 | 85745 | 8.68 | PPBV | | 100 |
| 18) ACROLEIN | 2.422 | 56 | 62608 | 14.37 | PPBV | | 98 |
| 19) FREON 123 | 2.438 | 83 | 322603 | 11.04 | PPBV | | 95 |
| 20) FREON 123A | 2.457 | 117 | 168597 | 9.98 | PPBV | | 90 |
| 21) TRICHLOROFLUOROMETHANE | 2.522 | 101 | 387034 | 10.53 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.538 | 45 | 269193 | 9.18 | PPBV | | 98 |
| 23) ACETONE | 2.464 | 58 | 77293 | 8.27 | PPBV | | 90 |
| 24) PENTANE | 2.634 | 42 | 156932 | 9.77 | PPBV | | 99 |
| 25) IODOMETHANE | 2.689 | 142 | 379514 | 10.57 | PPBV | | 99 |
| 26) 1,1-DICHLOROETHYLENE | 2.715 | 96 | 161262 | 11.44 | PPBV | | 97 |
| 27) CARBON DISULFIDE | 2.846 | 76 | 502646 | 11.84 | PPBV | | 97 |
| 28) ETHANOL | 2.297 | 45 | 42486 | 7.36 | PPBV | | 99 |
| 29) BROMOETHENE | 2.387 | 106 | 116902 | 10.26 | PPBV | | 98 |
| 30) ACRYLONITRILE | 2.605 | 52 | 116397 | 10.51 | PPBV | | 98 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 156428 | 10.00 | PPBV | | 88 |
| 32) 3-CHLOROPROPENE | 2.792 | 76 | 77397 | 10.70 | PPBV | | 87 |
| 33) FREON 113 | 2.846 | 151 | 253340 | 10.66 | PPBV | | 97 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 118825 | 10.12 | PPBV | | 96 |
| 35) TERTIARY BUTYL ALCOHOL | 2.724 | 59 | 352910 | 9.55 | PPBV | # | 90 |
| 36) METHYL TERTIARY BUTYL ... | 3.190 | 73 | 270633 | 8.90 | PPBV | | 99 |
| 37) TETRAHYDROFURAN | 3.904 | 72 | 53394 | 10.41 | PPBV | | 89 |
| 38) HEXANE | 3.666 | 57 | 201122 | 9.81 | PPBV | | 93 |
| 39) VINYL ACETATE | 3.232 | 86 | 30029 | 10.39 | PPBV | | 72 |
| 40) 1,1-DICHLOROETHANE | 3.158 | 63 | 226886 | 10.80 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.329 | 72 | 56075 | 10.73 | PPBV | | 77 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 123863 | 9.83 | PPBV | | 96 |
| 43) DIISOPROPYL ETHER | 3.670 | 59 | 62961 | 10.48 | PPBV | | 62 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61634.D
Acq On : 28 Sep 2022 8:44 am
Operator : thomash
Sample : bs
Misc : MS62371,V2w2735,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 07:57:46 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.673 | 61 | 43594 | 10.37 | PPBV | | 65 |
| 45) METHYL ACRYLATE | 3.660 | 55 | 237146 | 9.83 | PPBV | # | 98 |
| 46) CHLOROFORM | 3.689 | 83 | 260900 | 10.16 | PPBV | | 96 |
| 47) 2,4-DIMETHYLPENTANE | 4.197 | 57 | 230707 | 9.66 | PPBV | | 98 |
| 48) 1,1,1-TRICHLOROETHANE | 4.277 | 97 | 243902 | 9.52 | PPBV | | 96 |
| 49) CARBON TETRACHLORIDE | 4.711 | 117 | 242710 | 9.56 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 4.110 | 62 | 177664 | 10.21 | PPBV | | 99 |
| 51) BENZENE | 4.599 | 78 | 358070 | 9.77 | PPBV | | 96 |
| 53) CYCLOHEXANE | 4.811 | 84 | 158405 | 10.37 | PPBV | | 97 |
| 54) 2,3-DIMETHYLPENTANE | 5.071 | 71 | 78122 | 10.41 | PPBV | | 96 |
| 55) TRICHLOROETHENE | 5.515 | 95 | 164614 | 10.73 | PPBV | | 96 |
| 56) 1,2-DICHLOROPROPANE | 5.280 | 63 | 150152 | 10.87 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.239 | 174 | 151228 | 9.58 | PPBV | | 97 |
| 58) ETHYL ACRYLATE | 5.393 | 55 | 279608 | 10.77 | PPBV | | 99 |
| 59) BROMODICHLOROMETHANE | 5.460 | 83 | 276168 | 10.90 | PPBV | | 98 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.612 | 57 | 613167 | 10.03 | PPBV | | 99 |
| 61) 1,4-DIOXANE | 5.528 | 88 | 83766 | 11.30 | PPBV | | 98 |
| 62) HEPTANE | 5.936 | 43 | 168316 | 8.74 | PPBV | | 89 |
| 63) METHYL METHACRYLATE | 5.827 | 69 | 130267 | 11.04 | PPBV | | 91 |
| 64) METHYL ISOBUTYL KETONE | 6.573 | 58 | 118007 | 11.98 | PPBV | | 89 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.470 | 75 | 189915 | 10.37 | PPBV | | 95 |
| 66) TOLUENE | 7.695 | 91 | 438007 | 10.04 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.750 | 76 | 217968 | 10.51 | PPBV | | 99 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.158 | 75 | 162667 | 9.91 | PPBV | | 96 |
| 69) 1,1,2-TRICHLOROETHANE | 7.322 | 83 | 134391 | 10.51 | PPBV | | 97 |
| 70) 2-HEXANONE | 8.261 | 58 | 155384 | 11.27 | PPBV | | 88 |
| 71) ETHYL METHACRYLATE | 8.399 | 69 | 209794 | 12.20 | PPBV | | 94 |
| 72) TETRACHLOROETHENE | 9.444 | 164 | 171823 | 9.83 | PPBV | | 98 |
| 73) DIBROMOCHLOROMETHANE | 8.242 | 129 | 269710 | 10.83 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.586 | 107 | 242559 | 10.42 | PPBV | | 100 |
| 75) OCTANE | 9.586 | 43 | 232019 | 8.97 | PPBV | | 92 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.672 | 131 | 181368 | 10.70 | PPBV | | 96 |
| 78) CHLOROBENZENE | 10.663 | 112 | 354042 | 10.53 | PPBV | | 98 |
| 79) ETHYLBENZENE | 11.547 | 91 | 580038 | 10.82 | PPBV | | 99 |
| 80) M,P-XYLENE | 11.978 | 91 | 896884 | 21.99 | PPBV | | 97 |
| 81) O-XYLENE | 12.917 | 91 | 459030 | 11.01 | PPBV | | 96 |
| 82) STYRENE | 12.701 | 104 | 348171 | 11.67 | PPBV | | 99 |
| 83) NONANE | 14.026 | 43 | 245515 | 9.54 | PPBV | | 89 |
| 84) BROMOFORM | 11.791 | 173 | 262111 | 12.15 | PPBV | | 100 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.926 | 83 | 356488 | 11.49 | PPBV | | 97 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.206 | 75 | 253136 | 11.12 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.431 | 120 | 169154 | 9.57 | PPBV | | 96 |
| 89) BROMOBENZENE | 14.309 | 77 | 317910 | 11.02 | PPBV | | 96 |
| 90) 2-CHLOROTOLUENE | 15.444 | 126 | 156884 | 10.57 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.778 | 120 | 172779 | 10.64 | PPBV | | 99 |
| 92) 4-ETHYLTOLUENE | 16.145 | 105 | 663246 | 11.09 | PPBV | | 98 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.302 | 105 | 546690 | 10.95 | PPBV | | 98 |
| 94) ALPHA-METHYLSTYRENE | 16.502 | 118 | 279869 | 13.33 | PPBV | | 98 |
| 95) TERT-BUTYLBENZENE | 16.759 | 134 | 136664 | 10.70 | PPBV | | 99 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.765 | 105 | 589766 | 11.05 | PPBV | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61634.D
Acq On : 28 Sep 2022 8:44 am
Operator : thomash
Sample : bs
Misc : MS62371,V2w2735,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 07:57:46 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

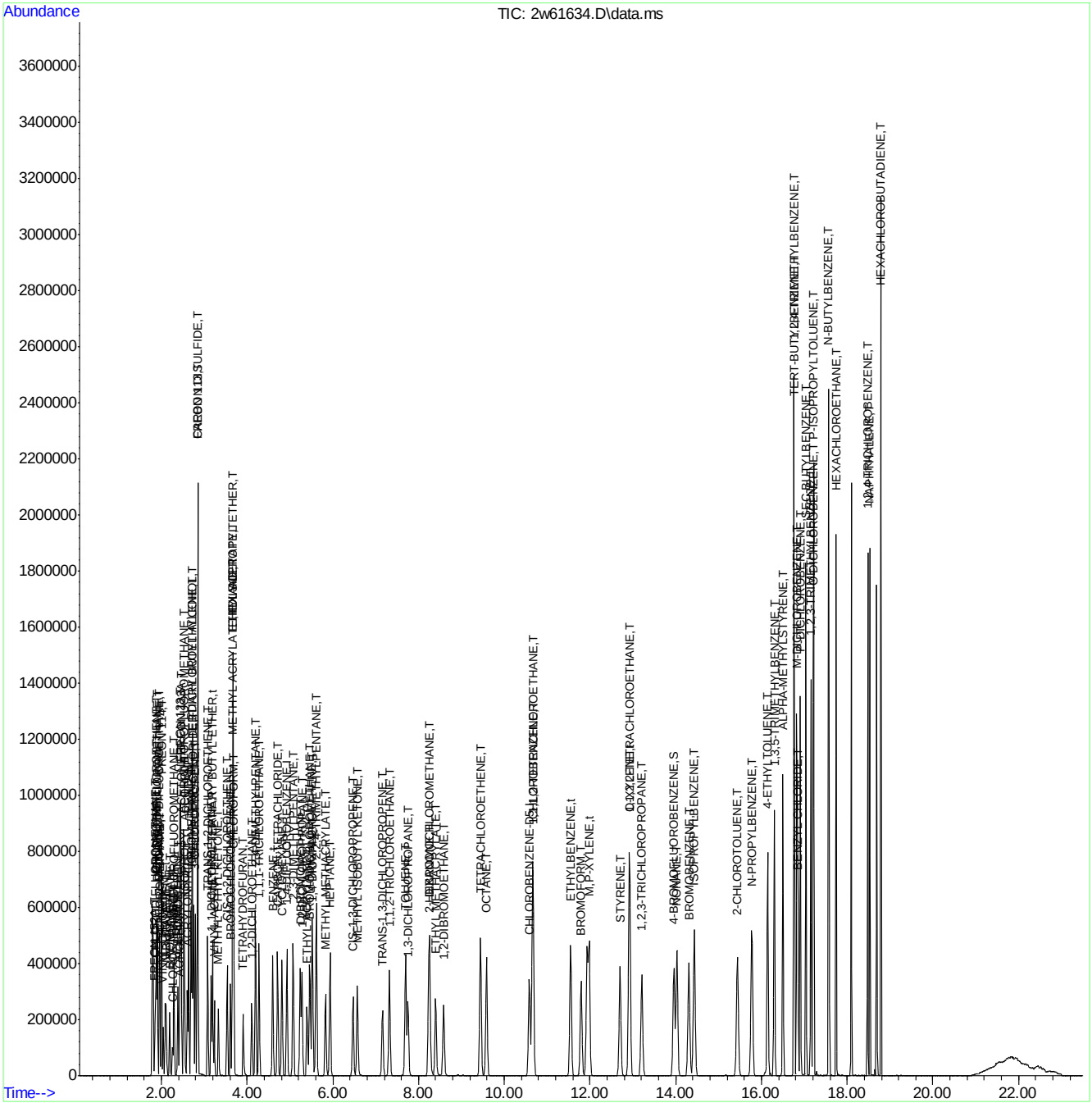
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.852 | 91 | 291879 | 8.83 | PPBV | 98 |
| 98) | M-DICHLOROBENZENE | 16.827 | 146 | 382625 | 10.91 | PPBV | 99 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 389983 | 10.97 | PPBV | 99 |
| 100) | O-DICHLOROBENZENE | 17.203 | 146 | 373787 | 10.82 | PPBV | 99 |
| 101) | SEC-BUTYLBENZENE | 17.039 | 134 | 166941 | 10.52 | PPBV | 93 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 557774 | 11.05 | PPBV | 98 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 186774 | 10.68 | PPBV | 100 |
| 104) | N-BUTYLBENZENE | 17.566 | 134 | 172280 | 10.66 | PPBV | 89 |
| 105) | HEXACHLOROETHANE | 17.743 | 117 | 215512 | 10.88 | PPBV | 98 |
| 106) | HEXACHLOROBUTADIENE | 18.788 | 225 | 287183 | 10.60 | PPBV | 100 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.479 | 180 | 318739 | 11.15 | PPBV | 99 |
| 108) | NAPHTHALENE | 18.527 | 128 | 774283 | 10.60 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61634.D
Acq On : 28 Sep 2022 8:44 am
Operator : thomash
Sample : bs
Misc : MS62371,V2w2735,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 07:57:46 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



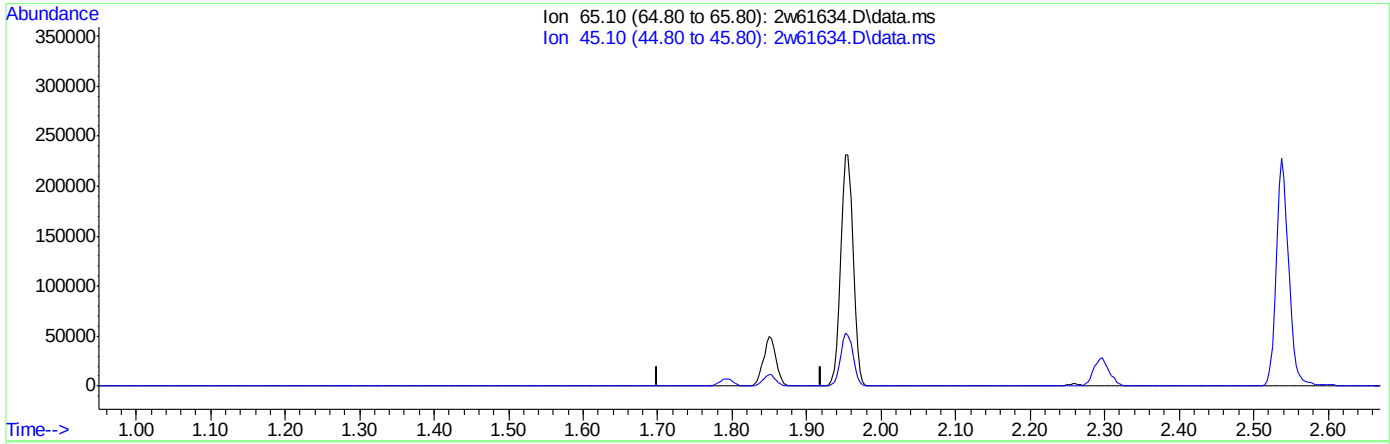
**Sample Number:** V2W2735-BS
**Lab FileID:** 2W61634.D
**Injection Time:** 09/28/22 08:44
**Method:** TO-15
**Analyst approved:** 09/29/22 09:19 Thomas Hilbig
**Supervisor approved:** 09/29/22 11:12 Kanya Veerawat

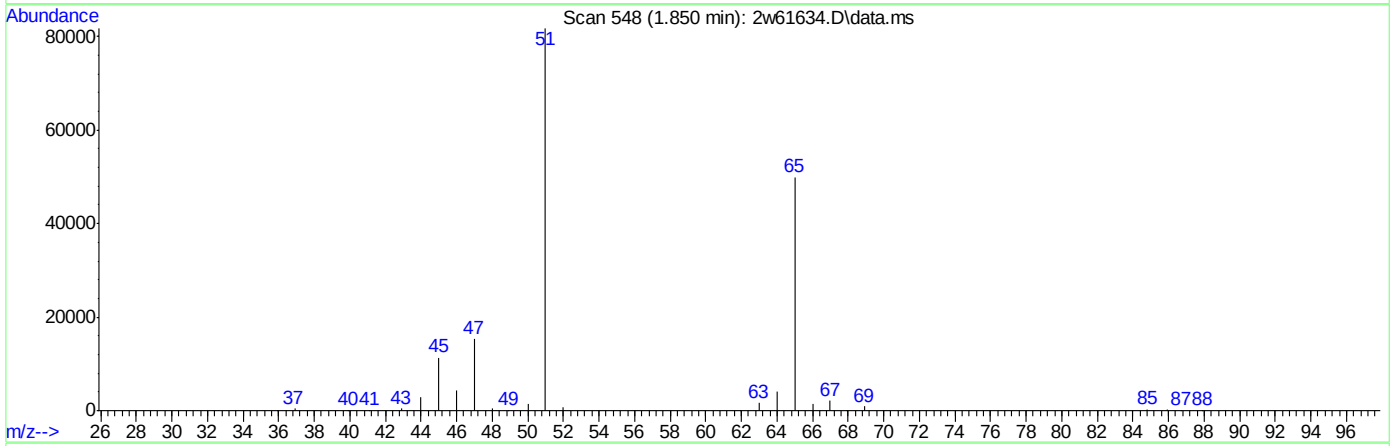
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.85 | Missed peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61634.D
Acq On : 28 Sep 2022 8:44 am
Operator : thomash
Sample : bs
Misc : MS62371,V2w2735,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 28 09:12:45 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61634.D\data.ms

(3) FREON 152A (T)

1.850min (-1.850) 0.00PPBV

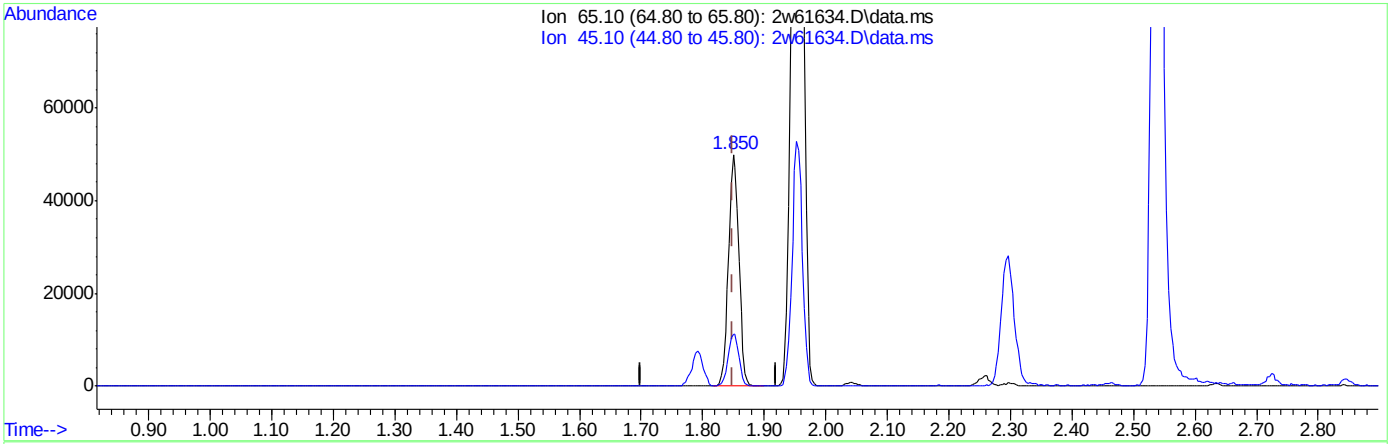
response 0

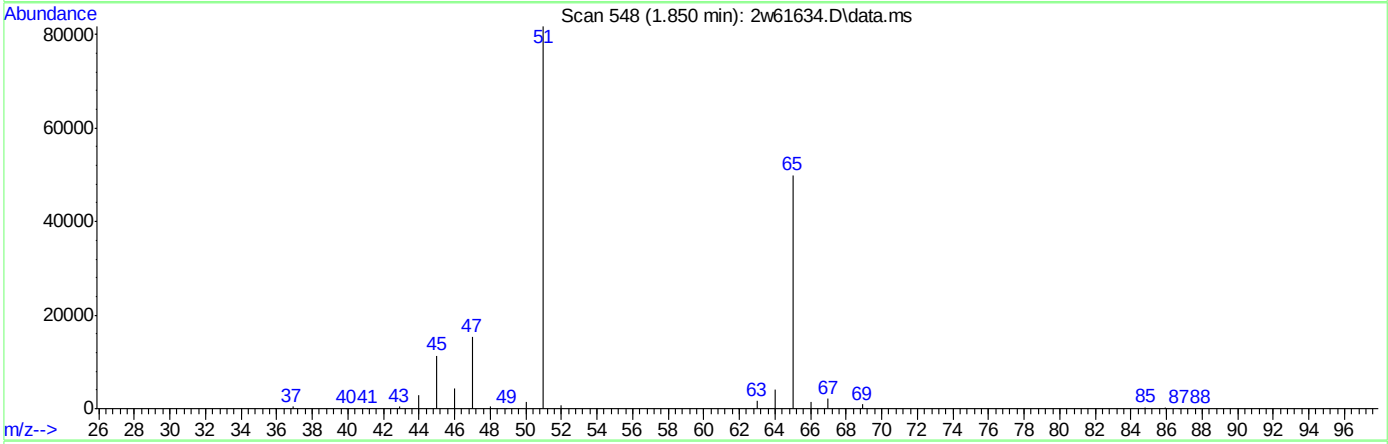
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 0.00 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61634.D
Acq On : 28 Sep 2022 8:44 am
Operator : thomash
Sample : bs
Misc : MS62371,V2w2735,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 28 09:12:45 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61634.D\data.ms

(3) FREON 152A (T)

1.850min (-0.000) 9.89PPBV m

response 59030

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61635.D
Acq On : 28 Sep 2022 9:16 am
Operator : thomash
Sample : bsd
Misc : MS62371,V2w2735,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 07:58:24 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.615 | 128 | 72997 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 384116 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 328631 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.965 | 95 | 243124 | 11.11 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.853 | 65 | 60894 | 9.92 | PPBV | # | 100 |
| 4) CHLORODIFLUOROMETHANE | 1.869 | 67 | 27189 | 9.97 | PPBV | | 98 |
| 5) CHLOROTRIFLUOROETHENE | 1.885 | 116 | 141932 | 9.00 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.904 | 85 | 346577 | 9.54 | PPBV | | 99 |
| 7) PROPYLENE | 1.878 | 41 | 54796 | 7.99 | PPBV | | 98 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.956 | 65 | 275978 | 10.09 | PPBV | | 97 |
| 9) FREON 114 | 2.001 | 85 | 324616 | 9.92 | PPBV | | 98 |
| 10) CHLOROMETHANE | 1.962 | 52 | 31839 | 8.71 | PPBV | | 97 |
| 11) VINYL CHLORIDE | 2.042 | 62 | 139805 | 11.00 | PPBV | | 99 |
| 12) 1,3-BUTADIENE | 2.094 | 54 | 91969 | 9.37 | PPBV | | 95 |
| 13) N-BUTANE | 2.116 | 43 | 141688 | 8.29 | PPBV | | 96 |
| 14) BROMOMETHANE | 2.194 | 94 | 115347 | 10.05 | PPBV | | 98 |
| 15) CHLOROETHANE | 2.258 | 64 | 74695 | 10.99 | PPBV | # | 93 |
| 16) DICHLOROFLUOROMETHANE | 2.290 | 67 | 275702 | 10.20 | PPBV | | 99 |
| 17) ACETONITRILE | 2.377 | 41 | 88461 | 8.71 | PPBV | | 100 |
| 18) ACROLEIN | 2.422 | 56 | 63553 | 14.18 | PPBV | | 97 |
| 19) FREON 123 | 2.438 | 83 | 330253 | 10.99 | PPBV | | 94 |
| 20) FREON 123A | 2.457 | 117 | 171276 | 9.85 | PPBV | | 89 |
| 21) TRICHLOROFLUOROMETHANE | 2.525 | 101 | 390860 | 10.34 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.538 | 45 | 278541 | 9.23 | PPBV | | 98 |
| 23) ACETONE | 2.464 | 58 | 78159 | 8.13 | PPBV | | 92 |
| 24) PENTANE | 2.634 | 42 | 161462 | 9.77 | PPBV | | 99 |
| 25) IODOMETHANE | 2.689 | 142 | 388884 | 10.53 | PPBV | | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.718 | 96 | 162758 | 11.22 | PPBV | | 93 |
| 27) CARBON DISULFIDE | 2.846 | 76 | 504834 | 11.56 | PPBV | | 97 |
| 28) ETHANOL | 2.296 | 45 | 42923 | 7.23 | PPBV | | 99 |
| 29) BROMOETHENE | 2.386 | 106 | 119995 | 10.24 | PPBV | | 99 |
| 30) ACRYLONITRILE | 2.605 | 52 | 120313 | 10.56 | PPBV | | 100 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 158022 | 9.82 | PPBV | | 89 |
| 32) 3-CHLOROPROPENE | 2.792 | 76 | 80096 | 10.76 | PPBV | | 86 |
| 33) FREON 113 | 2.846 | 151 | 258865 | 10.59 | PPBV | | 97 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 123304 | 10.21 | PPBV | | 96 |
| 35) TERTIARY BUTYL ALCOHOL | 2.724 | 59 | 368609 | 9.70 | PPBV | # | 90 |
| 36) METHYL TERTIARY BUTYL ... | 3.194 | 73 | 278663 | 8.91 | PPBV | | 98 |
| 37) TETRAHYDROFURAN | 3.907 | 72 | 56747 | 10.75 | PPBV | | 86 |
| 38) HEXANE | 3.666 | 57 | 210920 | 10.00 | PPBV | | 92 |
| 39) VINYL ACETATE | 3.232 | 86 | 31627 | 10.64 | PPBV | | 69 |
| 40) 1,1-DICHLOROETHANE | 3.161 | 63 | 227770 | 10.54 | PPBV | | 100 |
| 41) METHYL ETHYL KETONE | 3.332 | 72 | 57217 | 10.64 | PPBV | | 77 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 128988 | 9.95 | PPBV | | 97 |
| 43) DIISOPROPYL ETHER | 3.673 | 59 | 63670 | 10.31 | PPBV | | 66 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61635.D
Acq On : 28 Sep 2022 9:16 am
Operator : thomash
Sample : bsd
Misc : MS62371,V2w2735,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 07:58:24 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.676 | 61 | 46426 | 10.74 | PPBV | | 59 |
| 45) METHYL ACRYLATE | 3.660 | 55 | 245273 | 9.89 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.689 | 83 | 267912 | 10.14 | PPBV | | 97 |
| 47) 2,4-DIMETHYLPENTANE | 4.200 | 57 | 238942 | 9.72 | PPBV | | 99 |
| 48) 1,1,1-TRICHLOROETHANE | 4.280 | 97 | 255723 | 9.71 | PPBV | | 97 |
| 49) CARBON TETRACHLORIDE | 4.711 | 117 | 254787 | 9.76 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 4.110 | 62 | 183196 | 10.24 | PPBV | | 99 |
| 51) BENZENE | 4.599 | 78 | 373009 | 9.89 | PPBV | | 95 |
| 53) CYCLOHEXANE | 4.814 | 84 | 166081 | 10.25 | PPBV | | 96 |
| 54) 2,3-DIMETHYLPENTANE | 5.074 | 71 | 81127 | 10.19 | PPBV | | 98 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 170933 | 10.50 | PPBV | | 97 |
| 56) 1,2-DICHLOROPROPANE | 5.283 | 63 | 155620 | 10.61 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.242 | 174 | 159904 | 9.55 | PPBV | | 98 |
| 58) ETHYL ACRYLATE | 5.399 | 55 | 290370 | 10.54 | PPBV | | 99 |
| 59) BROMODICHLOROMETHANE | 5.464 | 83 | 285140 | 10.61 | PPBV | | 98 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 636673 | 9.81 | PPBV | | 99 |
| 61) 1,4-DIOXANE | 5.528 | 88 | 88030 | 11.19 | PPBV | | 97 |
| 62) HEPTANE | 5.936 | 43 | 174690 | 8.55 | PPBV | | 89 |
| 63) METHYL METHACRYLATE | 5.830 | 69 | 134891 | 10.77 | PPBV | | 91 |
| 64) METHYL ISOBUTYL KETONE | 6.573 | 58 | 123487 | 11.82 | PPBV | | 87 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.473 | 75 | 198840 | 10.23 | PPBV | | 95 |
| 66) TOLUENE | 7.698 | 91 | 453309 | 9.79 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.759 | 76 | 224993 | 10.22 | PPBV | | 99 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.161 | 75 | 171173 | 9.83 | PPBV | | 96 |
| 69) 1,1,2-TRICHLOROETHANE | 7.319 | 83 | 140360 | 10.35 | PPBV | | 96 |
| 70) 2-HEXANONE | 8.261 | 58 | 160814 | 11.00 | PPBV | | 89 |
| 71) ETHYL METHACRYLATE | 8.402 | 69 | 220015 | 12.06 | PPBV | | 94 |
| 72) TETRACHLOROETHENE | 9.447 | 164 | 177923 | 9.60 | PPBV | | 98 |
| 73) DIBROMOCHLOROMETHANE | 8.245 | 129 | 279788 | 10.59 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.589 | 107 | 252626 | 10.23 | PPBV | | 99 |
| 75) OCTANE | 9.589 | 43 | 237966 | 8.67 | PPBV | | 91 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.676 | 131 | 187719 | 10.55 | PPBV | | 97 |
| 78) CHLOROBENZENE | 10.666 | 112 | 368151 | 10.42 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.550 | 91 | 603290 | 10.72 | PPBV | | 99 |
| 80) M,P-XYLENE | 11.981 | 91 | 928039 | 21.67 | PPBV | | 97 |
| 81) O-XYLENE | 12.917 | 91 | 472258 | 10.79 | PPBV | | 96 |
| 82) STYRENE | 12.704 | 104 | 357986 | 11.43 | PPBV | | 99 |
| 83) NONANE | 14.032 | 43 | 253398 | 9.38 | PPBV | | 89 |
| 84) BROMOFORM | 11.798 | 173 | 270157 | 11.93 | PPBV | | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.929 | 83 | 368023 | 11.30 | PPBV | | 97 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.216 | 75 | 259482 | 10.86 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.441 | 120 | 171720 | 9.25 | PPBV | | 93 |
| 89) BROMOBENZENE | 14.312 | 77 | 324437 | 10.71 | PPBV | | 97 |
| 90) 2-CHLOROTOLUENE | 15.447 | 126 | 161315 | 10.35 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.785 | 120 | 177939 | 10.44 | PPBV | | 99 |
| 92) 4-ETHYLTOLUENE | 16.148 | 105 | 676536 | 10.77 | PPBV | | 98 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.302 | 105 | 558355 | 10.65 | PPBV | | 98 |
| 94) ALPHA-METHYLSTYRENE | 16.505 | 118 | 285926 | 12.97 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.759 | 134 | 139107 | 10.37 | PPBV | | 99 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.765 | 105 | 605602 | 10.81 | PPBV | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61635.D
Acq On : 28 Sep 2022 9:16 am
Operator : thomash
Sample : bsd
Misc : MS62371,V2w2735,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 07:58:24 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

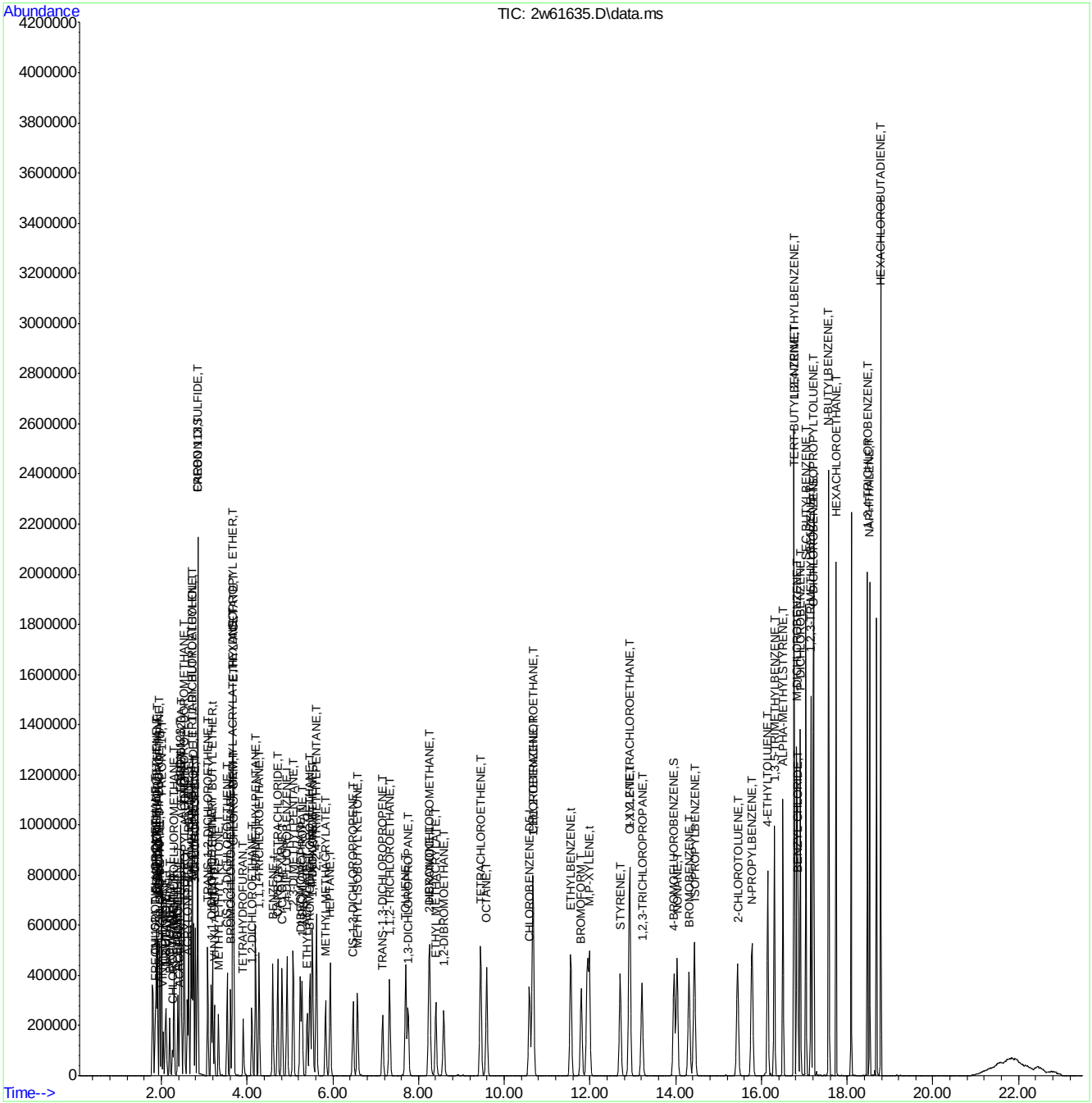
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.852 | 91 | 302601 | 8.72 | PPBV | 98 |
| 98) | M-DICHLOROBENZENE | 16.826 | 146 | 394341 | 10.71 | PPBV | 100 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 397162 | 10.64 | PPBV | 100 |
| 100) | O-DICHLOROBENZENE | 17.203 | 146 | 385331 | 10.63 | PPBV | 98 |
| 101) | SEC-BUTYLBENZENE | 17.039 | 134 | 171084 | 10.26 | PPBV | 93 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 580992 | 10.96 | PPBV | 98 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 193498 | 10.54 | PPBV | 98 |
| 104) | N-BUTYLBENZENE | 17.563 | 134 | 180976 | 10.66 | PPBV | 94 |
| 105) | HEXACHLOROETHANE | 17.743 | 117 | 220177 | 10.58 | PPBV | 98 |
| 106) | HEXACHLOROBUTADIENE | 18.781 | 225 | 301493 | 10.60 | PPBV | 99 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.476 | 180 | 336301 | 11.20 | PPBV | 99 |
| 108) | NAPHTHALENE | 18.524 | 128 | 829873 | 10.82 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61635.D
Acq On : 28 Sep 2022 9:16 am
Operator : thomash
Sample : bsd
Misc : MS62371,V2w2735,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 07:58:24 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61654.D
Acq On : 29 Sep 2022 8:23 am
Operator : thomash
Sample : bs
Misc : MS62557,V2w2736,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:19:11 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.608 | 128 | 65760 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 342332 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 293659 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 217157 | 11.11 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.853 | 65 | 58226 | 10.53 | PPBV | # | 100 |
| 4) CHLORODIFLUOROMETHANE | 1.869 | 67 | 26032 | 10.60 | PPBV | | 97 |
| 5) CHLOROTRIFLUOROETHENE | 1.885 | 116 | 135206 | 9.52 | PPBV | | 90 |
| 6) DICHLORODIFLUOROMETHANE | 1.904 | 85 | 335570 | 10.26 | PPBV | | 99 |
| 7) PROPYLENE | 1.878 | 41 | 52257 | 8.46 | PPBV | | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.956 | 65 | 267769 | 10.87 | PPBV | | 96 |
| 9) FREON 114 | 2.001 | 85 | 314795 | 10.68 | PPBV | | 97 |
| 10) CHLOROMETHANE | 1.965 | 52 | 30450 | 9.24 | PPBV | | 98 |
| 11) VINYL CHLORIDE | 2.042 | 62 | 133330 | 11.65 | PPBV | | 99 |
| 12) 1,3-BUTADIENE | 2.094 | 54 | 89324 | 10.11 | PPBV | | 96 |
| 13) N-BUTANE | 2.113 | 43 | 136402 | 8.86 | PPBV | | 97 |
| 14) BROMOMETHANE | 2.190 | 94 | 109241 | 10.57 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.258 | 64 | 71915 | 11.75 | PPBV | # | 93 |
| 16) DICHLOROFLUOROMETHANE | 2.290 | 67 | 267750 | 10.99 | PPBV | | 99 |
| 17) ACETONITRILE | 2.377 | 41 | 85319 | 9.32 | PPBV | | 99 |
| 18) ACROLEIN | 2.419 | 56 | 61623 | 15.26 | PPBV | | 99 |
| 19) FREON 123 | 2.438 | 83 | 318953 | 11.78 | PPBV | | 95 |
| 20) FREON 123A | 2.454 | 117 | 166992 | 10.66 | PPBV | | 88 |
| 21) TRICHLOROFLUOROMETHANE | 2.522 | 101 | 381679 | 11.21 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.534 | 45 | 271748 | 10.00 | PPBV | | 99 |
| 23) ACETONE | 2.460 | 58 | 77737 | 8.97 | PPBV | | 87 |
| 24) PENTANE | 2.631 | 42 | 159668 | 10.72 | PPBV | | 98 |
| 25) IODOMETHANE | 2.685 | 142 | 373254 | 11.22 | PPBV | | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.711 | 96 | 156717 | 11.99 | PPBV | | 93 |
| 27) CARBON DISULFIDE | 2.843 | 76 | 495162 | 12.58 | PPBV | | 98 |
| 28) ETHANOL | 2.293 | 45 | 42340 | 7.92 | PPBV | | 99 |
| 29) BROMOETHENE | 2.383 | 106 | 115752 | 10.96 | PPBV | | 100 |
| 30) ACRYLONITRILE | 2.602 | 52 | 116552 | 11.36 | PPBV | | 98 |
| 31) METHYLENE CHLORIDE | 2.747 | 84 | 153372 | 10.58 | PPBV | | 88 |
| 32) 3-CHLOROPROPENE | 2.788 | 76 | 75970 | 11.33 | PPBV | | 88 |
| 33) FREON 113 | 2.843 | 151 | 250225 | 11.36 | PPBV | | 96 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 119901 | 11.02 | PPBV | | 98 |
| 35) TERTIARY BUTYL ALCOHOL | 2.721 | 59 | 344259 | 10.06 | PPBV | # | 90 |
| 36) METHYL TERTIARY BUTYL ... | 3.187 | 73 | 264193 | 9.37 | PPBV | | 99 |
| 37) TETRAHYDROFURAN | 3.904 | 72 | 51671 | 10.87 | PPBV | | 89 |
| 38) HEXANE | 3.663 | 57 | 200312 | 10.54 | PPBV | | 93 |
| 39) VINYL ACETATE | 3.229 | 86 | 28700 | 10.72 | PPBV | | 76 |
| 40) 1,1-DICHLOROETHANE | 3.158 | 63 | 220924 | 11.35 | PPBV | | 100 |
| 41) METHYL ETHYL KETONE | 3.329 | 72 | 54182 | 11.19 | PPBV | | 77 |
| 42) CIS-1,2-DICHLOROETHENE | 3.531 | 96 | 123081 | 10.54 | PPBV | | 97 |
| 43) DIISOPROPYL ETHER | 3.666 | 59 | 61594 | 11.07 | PPBV | | 63 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61654.D
Acq On : 29 Sep 2022 8:23 am
Operator : thomash
Sample : bs
Misc : MS62557,V2w2736,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:19:11 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.669 | 61 | 44230 | 11.36 | PPBV | | 60 |
| 45) METHYL ACRYLATE | 3.660 | 55 | 236680 | 10.59 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.685 | 83 | 257806 | 10.83 | PPBV | | 96 |
| 47) 2,4-DIMETHYLPENTANE | 4.193 | 57 | 226544 | 10.23 | PPBV | | 99 |
| 48) 1,1,1-TRICHLOROETHANE | 4.277 | 97 | 242579 | 10.22 | PPBV | | 97 |
| 49) CARBON TETRACHLORIDE | 4.711 | 117 | 240369 | 10.22 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 4.107 | 62 | 173836 | 10.78 | PPBV | | 100 |
| 51) BENZENE | 4.595 | 78 | 351404 | 10.34 | PPBV | | 96 |
| 53) CYCLOHEXANE | 4.811 | 84 | 155447 | 10.76 | PPBV | | 98 |
| 54) 2,3-DIMETHYLPENTANE | 5.071 | 71 | 76869 | 10.83 | PPBV | | 98 |
| 55) TRICHLOROETHENE | 5.515 | 95 | 164794 | 11.36 | PPBV | | 95 |
| 56) 1,2-DICHLOROPROPANE | 5.280 | 63 | 147660 | 11.30 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.235 | 174 | 150317 | 10.07 | PPBV | | 98 |
| 58) ETHYL ACRYLATE | 5.396 | 55 | 276794 | 11.27 | PPBV | | 99 |
| 59) BROMODICHLOROMETHANE | 5.460 | 83 | 273772 | 11.43 | PPBV | | 98 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.611 | 57 | 609068 | 10.53 | PPBV | | 100 |
| 61) 1,4-DIOXANE | 5.521 | 88 | 81205 | 11.58 | PPBV | | 96 |
| 62) HEPTANE | 5.933 | 43 | 167111 | 9.18 | PPBV | | 90 |
| 63) METHYL METHACRYLATE | 5.827 | 69 | 129786 | 11.63 | PPBV | | 90 |
| 64) METHYL ISOBUTYL KETONE | 6.566 | 58 | 117841 | 12.65 | PPBV | | 88 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.467 | 75 | 184989 | 10.68 | PPBV | | 96 |
| 66) TOLUENE | 7.698 | 91 | 431017 | 10.44 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.756 | 76 | 215359 | 10.98 | PPBV | | 99 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.158 | 75 | 157259 | 10.13 | PPBV | | 97 |
| 69) 1,1,2-TRICHLOROETHANE | 7.316 | 83 | 132940 | 11.00 | PPBV | | 97 |
| 70) 2-HEXANONE | 8.261 | 58 | 154950 | 11.86 | PPBV | | 87 |
| 71) ETHYL METHACRYLATE | 8.396 | 69 | 208698 | 12.83 | PPBV | | 94 |
| 72) TETRACHLOROETHENE | 9.447 | 164 | 169202 | 10.24 | PPBV | | 98 |
| 73) DIBROMOCHLOROMETHANE | 8.238 | 129 | 265048 | 11.26 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.586 | 107 | 238403 | 10.83 | PPBV | | 100 |
| 75) OCTANE | 9.586 | 43 | 228126 | 9.33 | PPBV | | 92 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.669 | 131 | 179810 | 11.30 | PPBV | | 97 |
| 78) CHLOROBENZENE | 10.663 | 112 | 351512 | 11.14 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.547 | 91 | 574590 | 11.42 | PPBV | | 99 |
| 80) M,P-XYLENE | 11.981 | 91 | 886112 | 23.16 | PPBV | | 97 |
| 81) O-XYLENE | 12.920 | 91 | 449842 | 11.50 | PPBV | | 96 |
| 82) STYRENE | 12.701 | 104 | 342295 | 12.23 | PPBV | | 99 |
| 83) NONANE | 14.032 | 43 | 242161 | 10.03 | PPBV | | 88 |
| 84) BROMOFORM | 11.791 | 173 | 259607 | 12.83 | PPBV | | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.926 | 83 | 355314 | 12.21 | PPBV | | 97 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.212 | 75 | 250243 | 11.72 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.441 | 120 | 168115 | 10.14 | PPBV | | 97 |
| 89) BROMOBENZENE | 14.306 | 77 | 308137 | 11.38 | PPBV | | 98 |
| 90) 2-CHLOROTOLUENE | 15.444 | 126 | 153431 | 11.01 | PPBV | | 100 |
| 91) N-PROPYLBENZENE | 15.778 | 120 | 172858 | 11.34 | PPBV | | 99 |
| 92) 4-ETHYLTOLUENE | 16.145 | 105 | 655098 | 11.67 | PPBV | | 98 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.299 | 105 | 543891 | 11.61 | PPBV | | 98 |
| 94) ALPHA-METHYLSTYRENE | 16.505 | 118 | 275142 | 13.96 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.762 | 134 | 133402 | 11.13 | PPBV | | 100 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.769 | 105 | 579425 | 11.57 | PPBV | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61654.D
Acq On : 29 Sep 2022 8:23 am
Operator : thomash
Sample : bs
Misc : MS62557,V2w2736,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:19:11 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

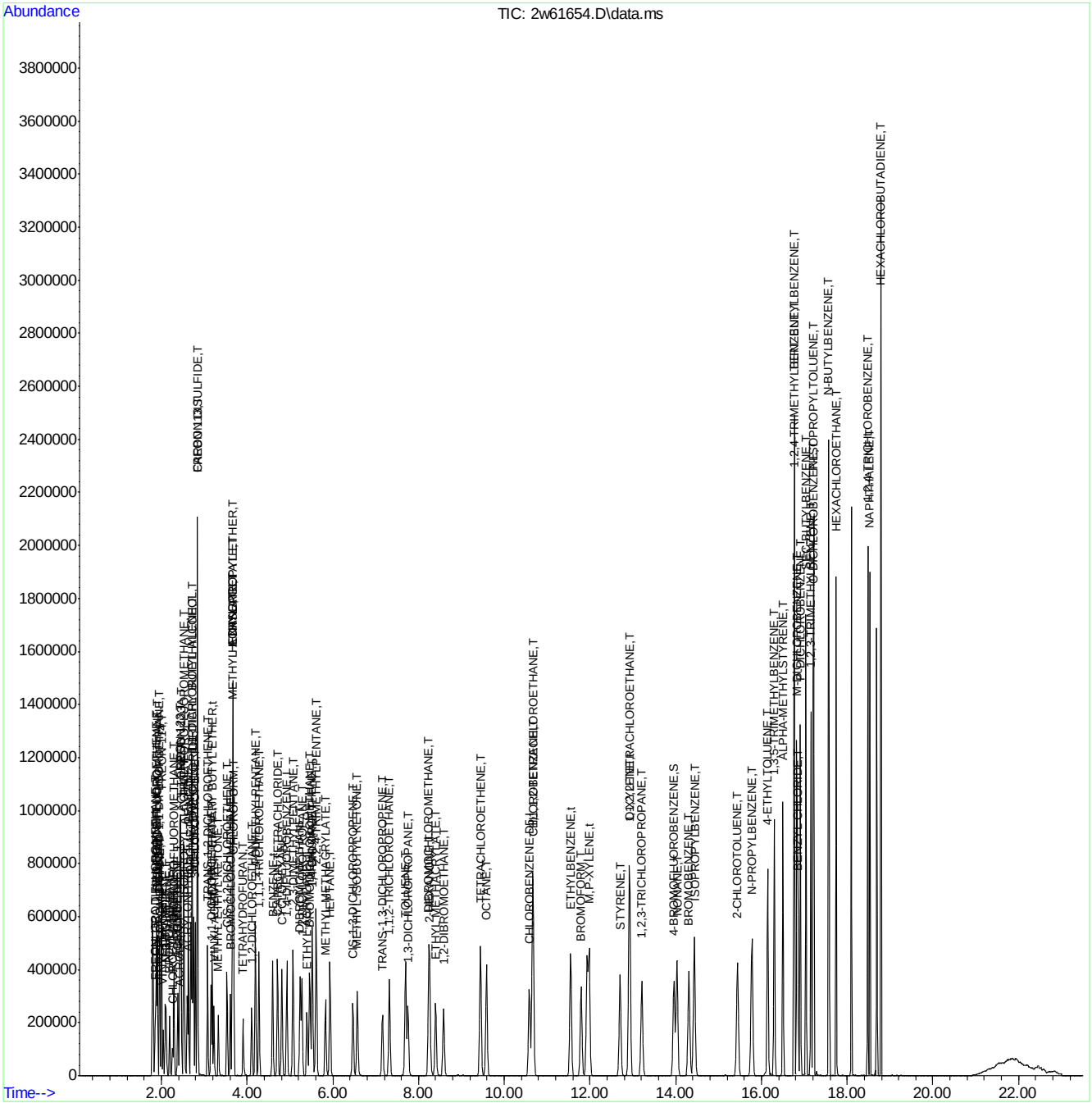
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.852 | 91 | 287480 | 9.27 | PPBV | 98 |
| 98) | M-DICHLOROBENZENE | 16.826 | 146 | 376128 | 11.43 | PPBV | 99 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 384459 | 11.53 | PPBV | 100 |
| 100) | O-DICHLOROBENZENE | 17.206 | 146 | 370732 | 11.44 | PPBV | 100 |
| 101) | SEC-BUTYLBENZENE | 17.039 | 134 | 166453 | 11.18 | PPBV | 95 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.154 | 105 | 552283 | 11.66 | PPBV | 99 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 184678 | 11.26 | PPBV | 100 |
| 104) | N-BUTYLBENZENE | 17.566 | 134 | 176036 | 11.60 | PPBV | 94 |
| 105) | HEXACHLOROETHANE | 17.746 | 117 | 212970 | 11.46 | PPBV | 98 |
| 106) | HEXACHLOROBUTADIENE | 18.788 | 225 | 293632 | 11.55 | PPBV | 100 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.479 | 180 | 320929 | 11.96 | PPBV | 99 |
| 108) | NAPHTHALENE | 18.527 | 128 | 778732 | 11.36 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61654.D
Acq On : 29 Sep 2022 8:23 am
Operator : thomash
Sample : bs
Misc : MS62557,V2w2736,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:19:11 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/03/22 15:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61655.D
Acq On : 29 Sep 2022 8:55 am
Operator : thomash
Sample : bsd
Misc : MS62557,V2w2736,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:19:35 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.612 | 128 | 69414 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 361827 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 313302 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.959 | 95 | 231519 | 11.10 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.856 | 65 | 60721m | 10.41 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.872 | 67 | 26882 | 10.37 | PPBV | | 97 |
| 5) CHLOROTRIFLUOROETHENE | 1.885 | 116 | 138497 | 9.24 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.908 | 85 | 345956 | 10.02 | PPBV | | 99 |
| 7) PROPYLENE | 1.882 | 41 | 53697 | 8.24 | PPBV | | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.959 | 65 | 275490 | 10.60 | PPBV | | 96 |
| 9) FREON 114 | 2.004 | 85 | 323799 | 10.41 | PPBV | | 97 |
| 10) CHLOROMETHANE | 1.962 | 52 | 32170 | 9.25 | PPBV | | 96 |
| 11) VINYL CHLORIDE | 2.046 | 62 | 138153 | 11.44 | PPBV | | 99 |
| 12) 1,3-BUTADIENE | 2.094 | 54 | 90305 | 9.68 | PPBV | | 97 |
| 13) N-BUTANE | 2.117 | 43 | 139628 | 8.60 | PPBV | | 97 |
| 14) BROMOMETHANE | 2.194 | 94 | 113015 | 10.36 | PPBV | | 100 |
| 15) CHLOROETHANE | 2.258 | 64 | 75008 | 11.61 | PPBV | # | 93 |
| 16) DICHLOROFLUOROMETHANE | 2.290 | 67 | 271875 | 10.57 | PPBV | | 99 |
| 17) ACETONITRILE | 2.377 | 41 | 89902 | 9.31 | PPBV | | 98 |
| 18) ACROLEIN | 2.422 | 56 | 62850 | 14.75 | PPBV | | 99 |
| 19) FREON 123 | 2.438 | 83 | 326586 | 11.43 | PPBV | | 95 |
| 20) FREON 123A | 2.454 | 117 | 170487 | 10.31 | PPBV | | 88 |
| 21) TRICHLOROFLUOROMETHANE | 2.522 | 101 | 394308 | 10.97 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.535 | 45 | 280375 | 9.78 | PPBV | | 99 |
| 23) ACETONE | 2.461 | 58 | 79045 | 8.64 | PPBV | | 91 |
| 24) PENTANE | 2.631 | 42 | 162177 | 10.32 | PPBV | | 98 |
| 25) IODOMETHANE | 2.686 | 142 | 383539 | 10.92 | PPBV | | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.715 | 96 | 162903 | 11.81 | PPBV | | 93 |
| 27) CARBON DISULFIDE | 2.843 | 76 | 506609 | 12.20 | PPBV | | 97 |
| 28) ETHANOL | 2.297 | 45 | 43243 | 7.66 | PPBV | | 99 |
| 29) BROMOETHENE | 2.383 | 106 | 118642 | 10.64 | PPBV | | 99 |
| 30) ACRYLONITRILE | 2.602 | 52 | 119776 | 11.06 | PPBV | | 99 |
| 31) METHYLENE CHLORIDE | 2.747 | 84 | 161017 | 10.52 | PPBV | | 88 |
| 32) 3-CHLOROPROPENE | 2.789 | 76 | 78726 | 11.12 | PPBV | | 87 |
| 33) FREON 113 | 2.843 | 151 | 255520 | 10.99 | PPBV | | 96 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 123171 | 10.72 | PPBV | | 97 |
| 35) TERTIARY BUTYL ALCOHOL | 2.721 | 59 | 360499 | 9.98 | PPBV | # | 89 |
| 36) METHYL TERTIARY BUTYL ... | 3.190 | 73 | 273482 | 9.19 | PPBV | | 99 |
| 37) TETRAHYDROFURAN | 3.901 | 72 | 54904 | 10.94 | PPBV | | 87 |
| 38) HEXANE | 3.663 | 57 | 205654 | 10.25 | PPBV | | 93 |
| 39) VINYL ACETATE | 3.229 | 86 | 30934 | 10.94 | PPBV | | 68 |
| 40) 1,1-DICHLOROETHANE | 3.155 | 63 | 226043 | 11.00 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.325 | 72 | 57529 | 11.25 | PPBV | | 75 |
| 42) CIS-1,2-DICHLOROETHENE | 3.531 | 96 | 127663 | 10.35 | PPBV | | 97 |
| 43) DIISOPROPYL ETHER | 3.666 | 59 | 63387 | 10.79 | PPBV | | 64 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61655.D
Acq On : 29 Sep 2022 8:55 am
Operator : thomash
Sample : bsd
Misc : MS62557,V2w2736,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:19:35 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.673 | 61 | 45459 | 11.06 | PPBV | | 60 |
| 45) METHYL ACRYLATE | 3.660 | 55 | 244235 | 10.35 | PPBV | # | 98 |
| 46) CHLOROFORM | 3.686 | 83 | 264087 | 10.51 | PPBV | | 96 |
| 47) 2,4-DIMETHYLPENTANE | 4.194 | 57 | 236251 | 10.11 | PPBV | | 99 |
| 48) 1,1,1-TRICHLOROETHANE | 4.277 | 97 | 251439 | 10.04 | PPBV | | 97 |
| 49) CARBON TETRACHLORIDE | 4.711 | 117 | 249240 | 10.04 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 4.107 | 62 | 181339 | 10.66 | PPBV | | 99 |
| 51) BENZENE | 4.596 | 78 | 366625 | 10.22 | PPBV | | 96 |
| 53) CYCLOHEXANE | 4.811 | 84 | 161139 | 10.55 | PPBV | | 96 |
| 54) 2,3-DIMETHYLPENTANE | 5.071 | 71 | 80132 | 10.69 | PPBV | | 96 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 168726 | 11.00 | PPBV | | 97 |
| 56) 1,2-DICHLOROPROPANE | 5.277 | 63 | 154809 | 11.21 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.235 | 174 | 157037 | 9.95 | PPBV | | 98 |
| 58) ETHYL ACRYLATE | 5.396 | 55 | 285990 | 11.02 | PPBV | | 99 |
| 59) BROMODICHLOROMETHANE | 5.460 | 83 | 281741 | 11.13 | PPBV | | 98 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 627853 | 10.27 | PPBV | | 99 |
| 61) 1,4-DIOXANE | 5.525 | 88 | 86241 | 11.64 | PPBV | | 98 |
| 62) HEPTANE | 5.933 | 43 | 170949 | 8.88 | PPBV | | 89 |
| 63) METHYL METHACRYLATE | 5.827 | 69 | 133848 | 11.35 | PPBV | | 91 |
| 64) METHYL ISOBUTYL KETONE | 6.570 | 58 | 121967 | 12.39 | PPBV | | 88 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.473 | 75 | 195032 | 10.66 | PPBV | | 95 |
| 66) TOLUENE | 7.698 | 91 | 448323 | 10.28 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.756 | 76 | 223610 | 10.79 | PPBV | | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.158 | 75 | 167550 | 10.21 | PPBV | | 96 |
| 69) 1,1,2-TRICHLOROETHANE | 7.322 | 83 | 139131 | 10.89 | PPBV | | 96 |
| 70) 2-HEXANONE | 8.258 | 58 | 160079 | 11.60 | PPBV | | 87 |
| 71) ETHYL METHACRYLATE | 8.402 | 69 | 214361 | 12.47 | PPBV | | 94 |
| 72) TETRACHLOROETHENE | 9.444 | 164 | 176229 | 10.09 | PPBV | | 98 |
| 73) DIBROMOCHLOROMETHANE | 8.242 | 129 | 275048 | 11.05 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.586 | 107 | 248549 | 10.68 | PPBV | | 100 |
| 75) OCTANE | 9.592 | 43 | 234366 | 9.06 | PPBV | | 90 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.676 | 131 | 186639 | 11.00 | PPBV | | 98 |
| 78) CHLOROBENZENE | 10.666 | 112 | 362818 | 10.77 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.550 | 91 | 592112 | 11.03 | PPBV | | 99 |
| 80) M,P-XYLENE | 11.984 | 91 | 909145 | 22.27 | PPBV | | 98 |
| 81) O-XYLENE | 12.917 | 91 | 462624 | 11.08 | PPBV | | 97 |
| 82) STYRENE | 12.705 | 104 | 351129 | 11.76 | PPBV | | 99 |
| 83) NONANE | 14.032 | 43 | 248264 | 9.64 | PPBV | | 88 |
| 84) BROMOFORM | 11.791 | 173 | 266167 | 12.33 | PPBV | | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.926 | 83 | 359548 | 11.58 | PPBV | | 97 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.213 | 75 | 256331 | 11.25 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.434 | 120 | 170973 | 9.67 | PPBV | | 95 |
| 89) BROMOBENZENE | 14.312 | 77 | 318514 | 11.03 | PPBV | | 98 |
| 90) 2-CHLOROTOLUENE | 15.441 | 126 | 159748 | 10.75 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.778 | 120 | 177356 | 10.91 | PPBV | | 99 |
| 92) 4-ETHYLTOLUENE | 16.148 | 105 | 669560 | 11.18 | PPBV | | 98 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.302 | 105 | 557827 | 11.16 | PPBV | | 98 |
| 94) ALPHA-METHYLSTYRENE | 16.505 | 118 | 282345 | 13.43 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.759 | 134 | 136887 | 10.71 | PPBV | | 98 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.769 | 105 | 595735 | 11.15 | PPBV | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61655.D
Acq On : 29 Sep 2022 8:55 am
Operator : thomash
Sample : bsd
Misc : MS62557,V2w2736,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:19:35 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

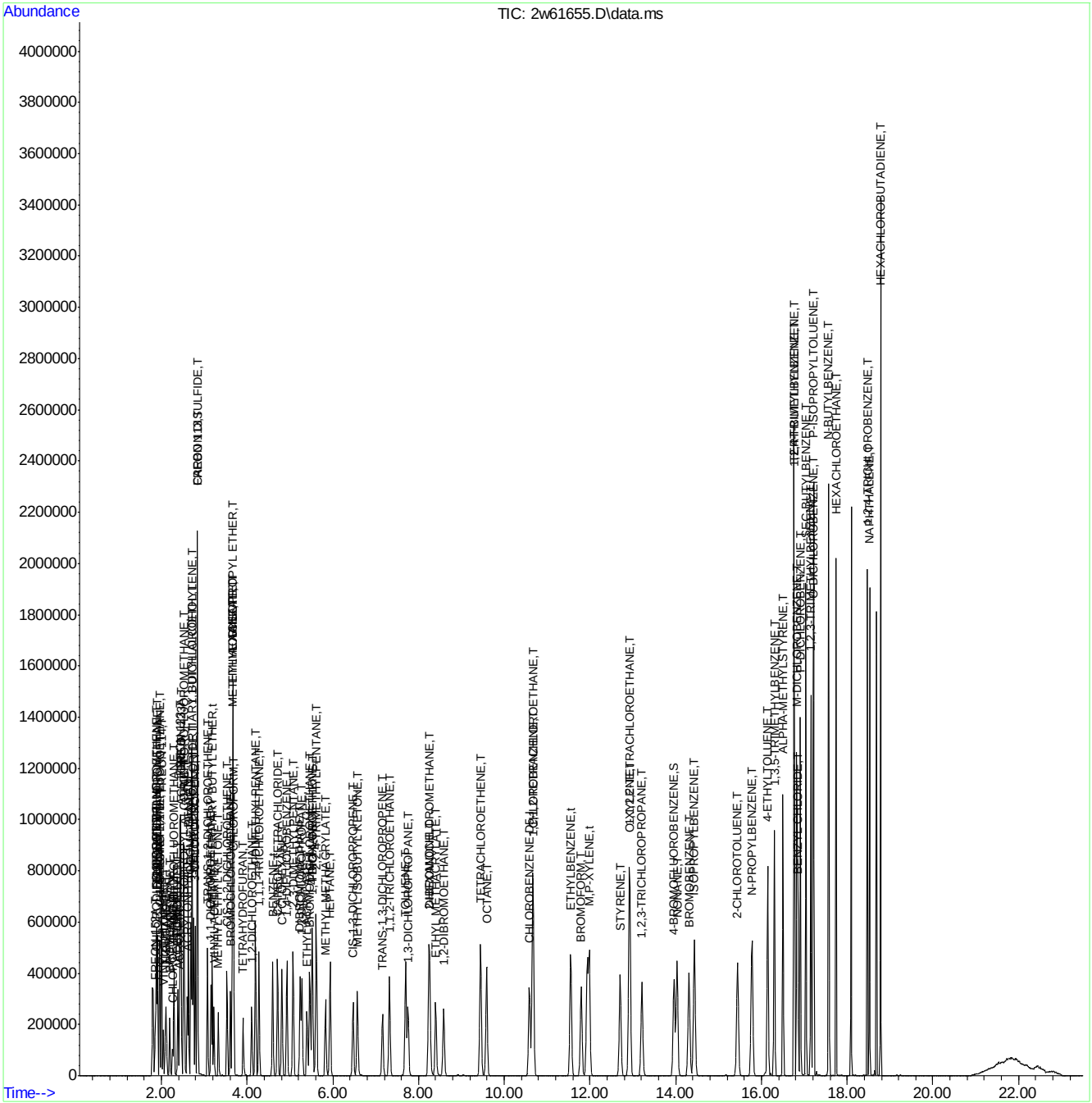
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.852 | 91 | 300109 | 9.07 | PPBV | 97 |
| 98) | M-DICHLOROBENZENE | 16.827 | 146 | 388899 | 11.08 | PPBV | 99 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 391504 | 11.00 | PPBV | 99 |
| 100) | O-DICHLOROBENZENE | 17.203 | 146 | 381953 | 11.05 | PPBV | 99 |
| 101) | SEC-BUTYLBENZENE | 17.039 | 134 | 172936 | 10.88 | PPBV | 95 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 573136 | 11.34 | PPBV | 99 |
| 103) | P-ISOPROPYLTOLUENE | 17.216 | 134 | 190659 | 10.89 | PPBV | 99 |
| 104) | N-BUTYLBENZENE | 17.563 | 134 | 176560 | 10.91 | PPBV | 92 |
| 105) | HEXACHLOROETHANE | 17.743 | 117 | 220286 | 11.11 | PPBV | 98 |
| 106) | HEXACHLOROBUTADIENE | 18.778 | 225 | 298985 | 11.02 | PPBV | 99 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.473 | 180 | 323725 | 11.31 | PPBV | 99 |
| 108) | NAPHTHALENE | 18.521 | 128 | 786263 | 10.75 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61655.D
Acq On : 29 Sep 2022 8:55 am
Operator : thomash
Sample : bsd
Misc : MS62557,V2w2736,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:19:35 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



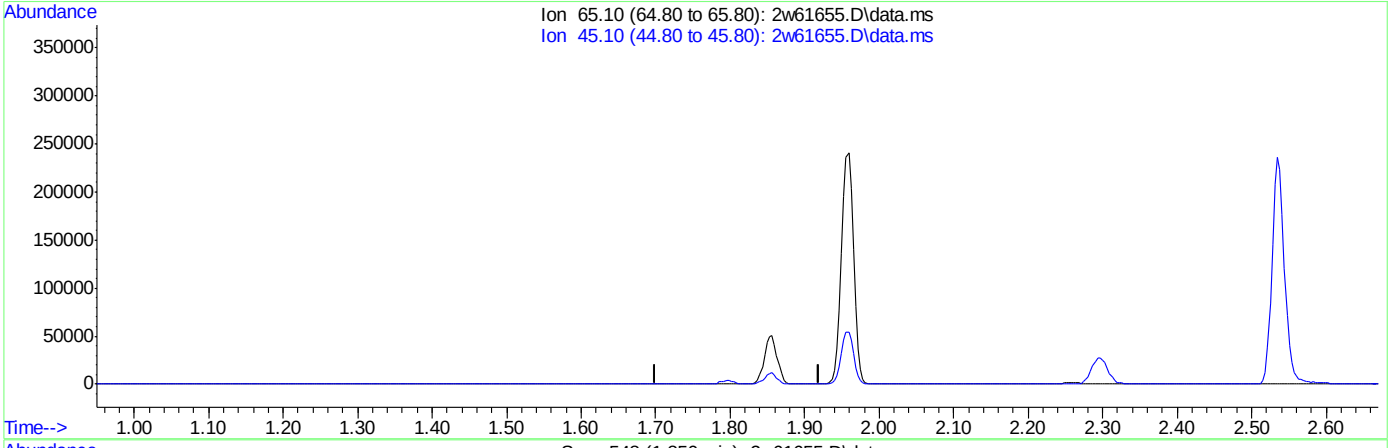
**Sample Number:** V2W2736-BSD
**Lab FileID:** 2W61655.D
**Injection Time:** 09/29/22 08:55
**Method:** TO-15
**Analyst approved:** 09/30/22 15:26 Thomas Hilbig
**Supervisor approved:** 10/03/22 15:22 Kanya Veerawat

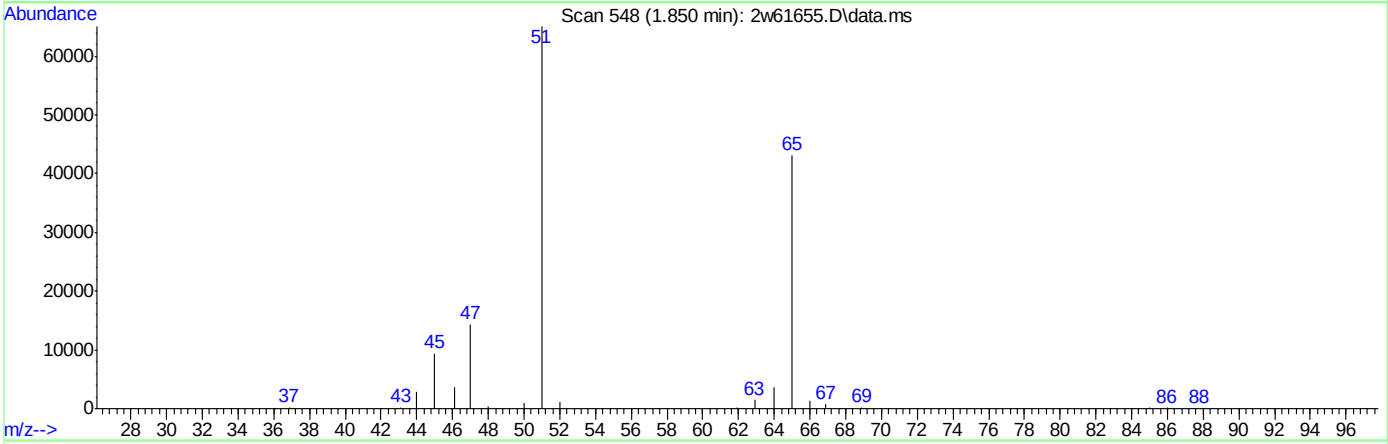
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.86 | Missed peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61655.D
Acq On : 29 Sep 2022 8:55 am
Operator : thomash
Sample : bsd
Misc : MS62557,V2w2736,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 09:37:18 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61655.D\data.ms

(3) FREON 152A (T)

1.850min (-1.850) 0.00PPBV

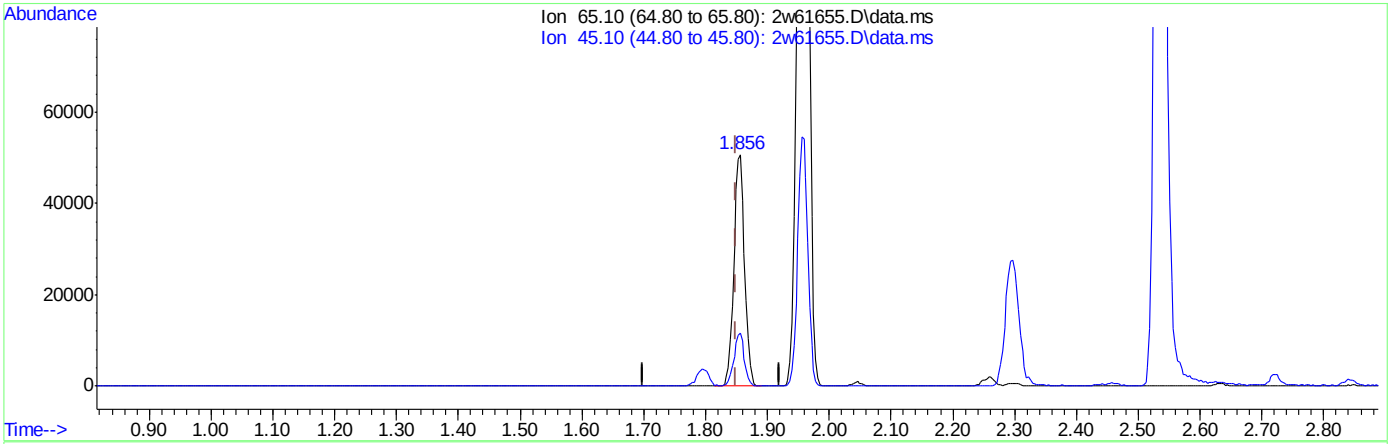
response 0

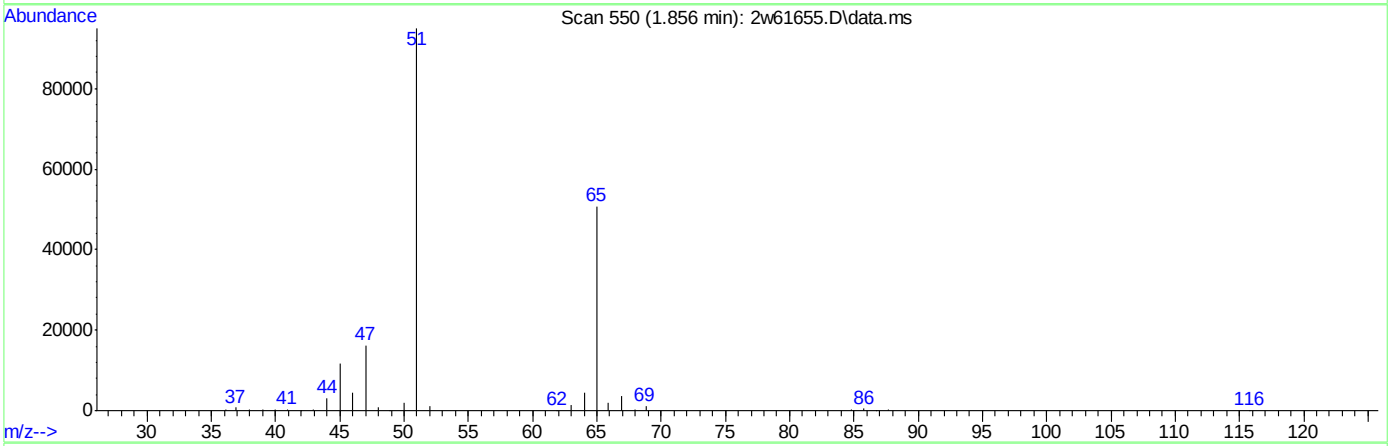
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 0.00 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61655.D
Acq On : 29 Sep 2022 8:55 am
Operator : thomash
Sample : bsd
Misc : MS62557,V2w2736,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 09:37:18 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61655.D\data.ms

(3) FREON 152A (T)

1.856min (+0.006) 10.41PPBV m

response 60721

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26138.D
Acq On : 29 Sep 2022 3:45 pm
Operator : thomash
Sample : bs
Misc : MS62314,V6W1111,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:33:28 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.335 | 128 | 43578 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.731 | 114 | 242843 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.579 | 117 | 185817 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.016 | 95 | 143558 | 10.57 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 43300 | 12.30 | PPBV | # | 85 |
| 4) CHLORODIFLUOROMETHANE | 1.705 | 67 | 19592 | 11.67 | PPBV | | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.718 | 116 | 78285 | 11.09 | PPBV | # | 99 |
| 6) DICHLORODIFLUOROMETHANE | 1.798 | 85 | 193203 | 9.53 | PPBV | | 100 |
| 7) PROPYLENE | 1.715 | 41 | 56611 | 11.13 | PPBV | | 95 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 169384 | 9.46 | PPBV | # | 90 |
| 9) FREON 114 | 1.798 | 85 | 199656 | 10.18 | PPBV | # | 85 |
| 10) CHLOROMETHANE | 1.773 | 52 | 24437 | 9.76 | PPBV | | 95 |
| 11) VINYL CHLORIDE | 1.827 | 62 | 80871 | 9.65 | PPBV | | 98 |
| 12) 1,3-BUTADIENE | 1.863 | 54 | 63071 | 9.91 | PPBV | # | 77 |
| 13) N-BUTANE | 1.879 | 43 | 121934 | 9.37 | PPBV | # | 93 |
| 14) BROMOMETHANE | 1.933 | 94 | 64903 | 10.29 | PPBV | | 100 |
| 15) CHLOROETHANE | 1.978 | 64 | 41301 | 10.06 | PPBV | | 100 |
| 16) DICHLOROFLUOROMETHANE | 2.001 | 67 | 174761 | 9.70 | PPBV | # | 97 |
| 17) ACETONITRILE | 2.065 | 41 | 82162 | 9.87 | PPBV | | 98 |
| 18) ACROLEIN | 2.101 | 56 | 28783 | 7.66 | PPBV | | 98 |
| 19) FREON 123 | 2.113 | 83 | 171776 | 9.88 | PPBV | | 99 |
| 20) FREON 123A | 2.130 | 117 | 82725 | 9.49 | PPBV | # | 59 |
| 21) TRICHLOROFLUOROMETHANE | 2.191 | 101 | 170106 | 9.17 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.207 | 45 | 206951 | 11.58 | PPBV | # | 98 |
| 23) ACETONE | 2.139 | 58 | 47767 | 11.49 | PPBV | # | 69 |
| 24) PENTANE | 2.297 | 42 | 87572 | 8.75 | PPBV | # | 96 |
| 25) IODOMETHANE | 2.355 | 142 | 140449 | 8.48 | PPBV | | 90 |
| 26) 1,1-DICHLOROETHYLENE | 2.384 | 96 | 70120 | 10.72 | PPBV | # | 60 |
| 27) CARBON DISULFIDE | 2.519 | 76 | 239184 | 10.27 | PPBV | # | 92 |
| 28) ETHANOL | 2.007 | 45 | 40887 | 9.18 | PPBV | # | 98 |
| 29) BROMOETHENE | 2.072 | 106 | 64488 | 10.73 | PPBV | # | 94 |
| 30) ACRYLONITRILE | 2.271 | 52 | 60000 | 10.08 | PPBV | | 98 |
| 31) METHYLENE CHLORIDE | 2.419 | 84 | 70432 | 9.88 | PPBV | # | 70 |
| 32) 3-CHLOROPROPENE | 2.461 | 76 | 37779 | 10.74 | PPBV | # | 26 |
| 33) FREON 113 | 2.519 | 151 | 99215 | 8.95 | PPBV | # | 76 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.766 | 96 | 77247 | 10.78 | PPBV | # | 83 |
| 35) TERTIARY BUTYL ALCOHOL | 2.396 | 59 | 163435 | 10.04 | PPBV | # | 88 |
| 36) METHYL TERTIARY BUTYL ... | 2.885 | 73 | 210624 | 10.35 | PPBV | # | 95 |
| 37) TETRAHYDROFURAN | 3.650 | 72 | 41574 | 11.98 | PPBV | # | 66 |
| 38) HEXANE | 3.390 | 57 | 139839 | 9.81 | PPBV | # | 80 |
| 39) VINYL ACETATE | 2.927 | 86 | 20121 | 10.47 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.850 | 63 | 147478 | 9.83 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.036 | 72 | 42558 | 11.60 | PPBV | # | 36 |
| 42) CIS-1,2-DICHLOROETHENE | 3.252 | 96 | 79192 | 10.01 | PPBV | # | 82 |
| 43) DIISOPROPYL ETHER | 3.396 | 59 | 42767 | 11.02 | PPBV | | 61 |
| 44) ETHYL ACETATE | 3.406 | 61 | 31123 | 10.89 | PPBV | # | 49 |
| 45) METHYL ACRYLATE | 3.390 | 55 | 183579 | 9.79 | PPBV | # | 99 |
| 46) CHLOROFORM | 3.419 | 83 | 173101 | 10.13 | PPBV | # | 95 |
| 47) 2,4-DIMETHYLPENTANE | 3.949 | 57 | 160883 | 10.07 | PPBV | | 93 |
| 48) 1,1,1-TRICHLOROETHANE | 4.039 | 97 | 151492 | 9.83 | PPBV | # | 93 |
| 49) CARBON TETRACHLORIDE | 4.496 | 117 | 134418 | 9.03 | PPBV | | 96 |
| 50) 1,2-DICHLOROETHANE | 3.866 | 62 | 117110 | 9.71 | PPBV | # | 97 |
| 51) BENZENE | 4.377 | 78 | 251816 | 10.73 | PPBV | | 88 |
| 53) CYCLOHEXANE | 4.599 | 84 | 102426 | 10.50 | PPBV | # | 82 |
| 54) 2,3-DIMETHYLPENTANE | 4.872 | 71 | 56518 | 10.58 | PPBV | # | 71 |
| 55) TRICHLOROETHENE | 5.342 | 95 | 103333 | 10.20 | PPBV | | 86 |
| 56) 1,2-DICHLOROPROPANE | 5.100 | 63 | 101899 | 9.93 | PPBV | | 98 |
| 57) DIBROMOMETHANE | 5.055 | 174 | 82065 | 9.52 | PPBV | # | 78 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26138.D
Acq On : 29 Sep 2022 3:45 pm
Operator : thomash
Sample : bs
Misc : MS62314,V6W1111,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:33:28 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

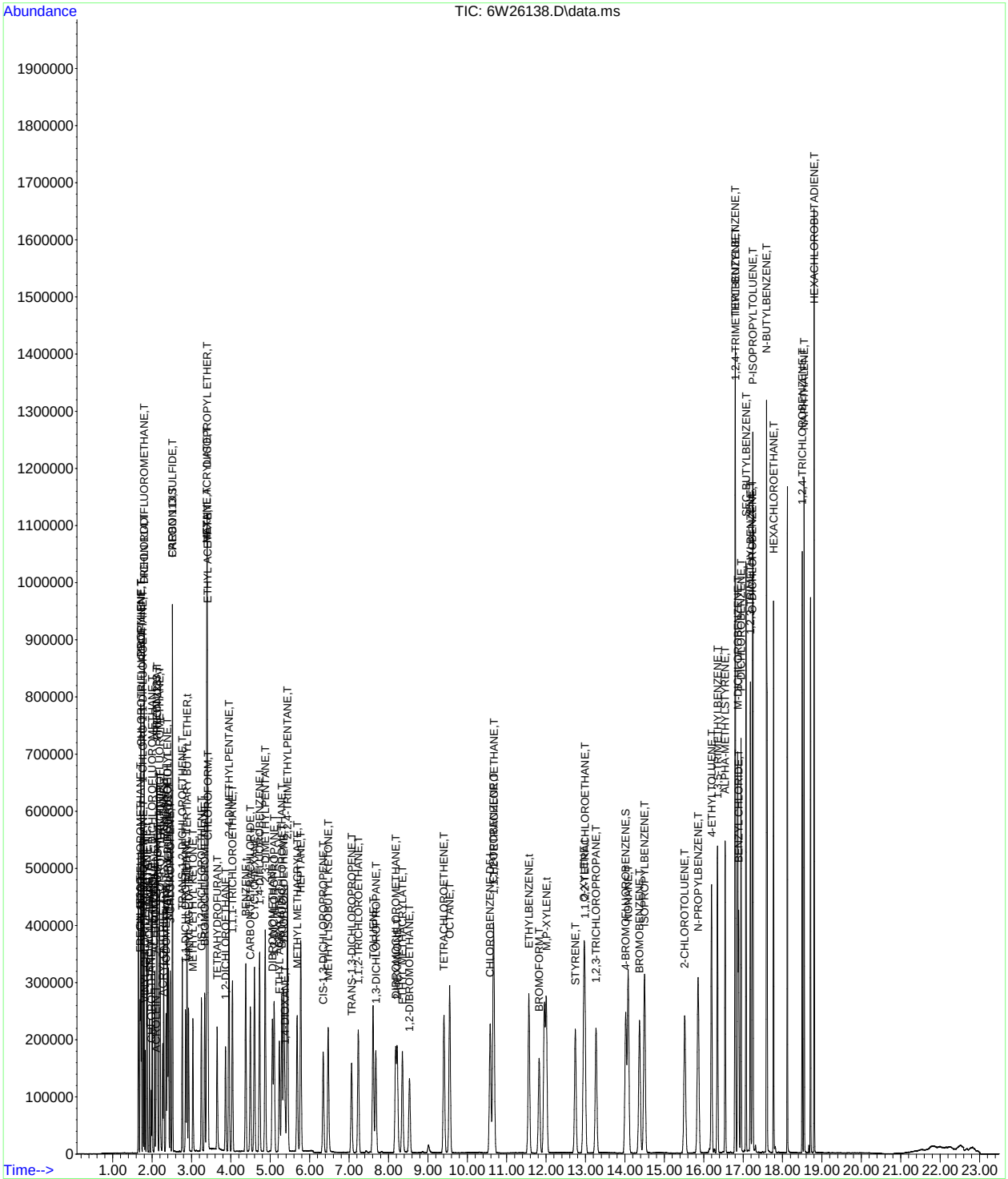
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.232 | 55 | 215085 | 10.17 | PPBV | # | 97 |
| 59) BROMODICHLOROMETHANE | 5.293 | 83 | 187253 | 9.93 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.435 | 57 | 440381 | 10.01 | PPBV | # | 98 |
| 61) 1,4-DIOXANE | 5.374 | 88 | 57900 | 11.50 | PPBV | # | 81 |
| 62) HEPTANE | 5.772 | 43 | 169604 | 11.53 | PPBV | # | 80 |
| 63) METHYL METHACRYLATE | 5.682 | 69 | 100564 | 13.03 | PPBV | # | 63 |
| 64) METHYL ISOBUTYL KETONE | 6.470 | 58 | 70488 | 11.53 | PPBV | # | 66 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.345 | 75 | 118708 | 10.38 | PPBV | # | 80 |
| 66) TOLUENE | 7.612 | 91 | 244581 | 10.61 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.679 | 76 | 135739 | 10.41 | PPBV | # | 97 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.065 | 75 | 107749 | 9.84 | PPBV | # | 81 |
| 69) 1,1,2-TRICHLOROETHANE | 7.232 | 83 | 80328 | 11.26 | PPBV | | 95 |
| 70) 2-HEXANONE | 8.223 | 58 | 87349 | 11.01 | PPBV | # | 65 |
| 71) ETHYL METHACRYLATE | 8.354 | 69 | 131594 | 11.30 | PPBV | # | 78 |
| 72) TETRACHLOROETHENE | 9.406 | 164 | 78774 | 9.31 | PPBV | | 100 |
| 73) DIBROMOCHLOROMETHANE | 8.184 | 129 | 125951 | 8.88 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.534 | 107 | 126052 | 9.74 | PPBV | # | 99 |
| 75) OCTANE | 9.550 | 43 | 189571 | 10.60 | PPBV | # | 79 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.676 | 131 | 87395 | 8.79 | PPBV | # | 81 |
| 78) CHLOROBENZENE | 10.663 | 112 | 182668 | 9.38 | PPBV | # | 89 |
| 79) ETHYLBENZENE | 11.560 | 91 | 325818 | 10.41 | PPBV | | 93 |
| 80) M,P-XYLENE | 12.007 | 91 | 499528 | 21.17 | PPBV | # | 64 |
| 81) O-XYLENE | 12.962 | 91 | 254979 | 10.49 | PPBV | | 92 |
| 82) STYRENE | 12.737 | 104 | 173990 | 10.12 | PPBV | | 95 |
| 83) NONANE | 14.081 | 43 | 211065 | 9.77 | PPBV | # | 77 |
| 84) BROMOFORM | 11.820 | 173 | 119348 | 8.44 | PPBV | | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.984 | 83 | 217016 | 10.03 | PPBV | # | 99 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.264 | 75 | 165236 | 10.31 | PPBV | | 100 |
| 88) ISOPROPYLBENZENE | 14.499 | 120 | 86236 | 10.51 | PPBV | # | 68 |
| 89) BROMOBENZENE | 14.373 | 77 | 196540 | 10.25 | PPBV | # | 78 |
| 90) 2-CHLOROTOLUENE | 15.515 | 126 | 69893 | 9.35 | PPBV | | 98 |
| 91) N-PROPYLBENZENE | 15.859 | 120 | 83700 | 10.17 | PPBV | | 95 |
| 92) 4-ETHYLTOLUENE | 16.200 | 105 | 350366 | 10.86 | PPBV | | 94 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.348 | 105 | 287374 | 10.57 | PPBV | # | 92 |
| 94) ALPHA-METHYLSTYRENE | 16.544 | 118 | 125384 | 9.55 | PPBV | | 95 |
| 95) TERT-BUTYLBENZENE | 16.798 | 134 | 63562 | 9.62 | PPBV | | 92 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.804 | 105 | 311709 | 10.72 | PPBV | | 85 |
| 97) BENZYL CHLORIDE | 16.888 | 91 | 204007 | 8.91 | PPBV | # | 92 |
| 98) M-DICHLOROBENZENE | 16.865 | 146 | 185087 | 9.16 | PPBV | | 97 |
| 99) P-DICHLOROBENZENE | 16.946 | 146 | 186180 | 9.22 | PPBV | | 97 |
| 100) O-DICHLOROBENZENE | 17.235 | 146 | 182910 | 9.11 | PPBV | | 97 |
| 101) SEC-BUTYLBENZENE | 17.074 | 134 | 79651 | 9.70 | PPBV | | 64 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.184 | 105 | 306062 | 10.78 | PPBV | | 93 |
| 103) P-ISOPROPYLTOLUENE | 17.248 | 134 | 90979 | 9.86 | PPBV | | 92 |
| 104) N-BUTYLBENZENE | 17.595 | 134 | 86057 | 9.92 | PPBV | # | 44 |
| 105) HEXACHLOROETHANE | 17.772 | 117 | 116361 | 8.79 | PPBV | | 89 |
| 106) HEXACHLOROBUTADIENE | 18.804 | 225 | 152877 | 7.95 | PPBV | | 100 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.499 | 180 | 156548 | 8.50 | PPBV | | 99 |
| 108) NAPHTHALENE | 18.547 | 128 | 440666 | 9.92 | PPBV | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26138.D
Acq On : 29 Sep 2022 3:45 pm
Operator : thomash
Sample : bs
Misc : MS62314,V6W1111,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:33:28 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/30/22 16:36

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26139.D
Acq On : 29 Sep 2022 4:28 pm
Operator : thomash
Sample : bsd
Misc : MS62314,V6W1111,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 13:41:48 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 42826 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.731 | 114 | 239033 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 186339 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.020 | 95 | 146569 | 10.76 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 42968 | 12.42 | PPBV | # | 83 |
| 4) CHLORODIFLUOROMETHANE | 1.708 | 67 | 19868 | 12.04 | PPBV | | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.718 | 116 | 77762 | 11.21 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.734 | 85 | 221623 | 11.13 | PPBV | # | 94 |
| 7) PROPYLENE | 1.718 | 41 | 54643 | 10.93 | PPBV | | 95 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.769 | 65 | 169142 | 9.62 | PPBV | # | 91 |
| 9) FREON 114 | 1.802 | 85 | 195621 | 10.15 | PPBV | # | 85 |
| 10) CHLOROMETHANE | 1.773 | 52 | 23940 | 9.73 | PPBV | | 97 |
| 11) VINYL CHLORIDE | 1.831 | 62 | 79040 | 9.59 | PPBV | | 99 |
| 12) 1,3-BUTADIENE | 1.866 | 54 | 61476 | 9.83 | PPBV | # | 76 |
| 13) N-BUTANE | 1.882 | 43 | 118885 | 9.30 | PPBV | | 94 |
| 14) BROMOMETHANE | 1.937 | 94 | 63754 | 10.28 | PPBV | | 99 |
| 15) CHLOROETHANE | 1.982 | 64 | 41938 | 10.39 | PPBV | | 96 |
| 16) DICHLOROFLUOROMETHANE | 2.004 | 67 | 173634 | 9.80 | PPBV | # | 97 |
| 17) ACETONITRILE | 2.068 | 41 | 78296 | 9.57 | PPBV | | 97 |
| 18) ACROLEIN | 2.104 | 56 | 27757 | 7.52 | PPBV | | 98 |
| 19) FREON 123 | 2.117 | 83 | 169555 | 9.93 | PPBV | | 98 |
| 20) FREON 123A | 2.133 | 117 | 81085 | 9.47 | PPBV | # | 58 |
| 21) TRICHLOROFLUOROMETHANE | 2.194 | 101 | 169647 | 9.31 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.210 | 45 | 202442 | 11.53 | PPBV | # | 96 |
| 23) ACETONE | 2.139 | 58 | 46393 | 11.36 | PPBV | # | 66 |
| 24) PENTANE | 2.300 | 42 | 86828 | 8.83 | PPBV | # | 95 |
| 25) IODOMETHANE | 2.358 | 142 | 135245 | 8.31 | PPBV | | 88 |
| 26) 1,1-DICHLOROETHYLENE | 2.384 | 96 | 68962 | 10.72 | PPBV | # | 58 |
| 27) CARBON DISULFIDE | 2.522 | 76 | 235682 | 10.30 | PPBV | # | 92 |
| 28) ETHANOL | 2.007 | 45 | 41160 | 9.40 | PPBV | # | 95 |
| 29) BROMOETHENE | 2.075 | 106 | 62777 | 10.63 | PPBV | # | 95 |
| 30) ACRYLONITRILE | 2.274 | 52 | 59454 | 10.16 | PPBV | | 97 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 68113 | 9.72 | PPBV | # | 70 |
| 32) 3-CHLOROPROPENE | 2.464 | 76 | 36550 | 10.57 | PPBV | # | 22 |
| 33) FREON 113 | 2.522 | 151 | 96859 | 8.89 | PPBV | # | 74 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 74609 | 10.59 | PPBV | # | 82 |
| 35) TERTIARY BUTYL ALCOHOL | 2.400 | 59 | 161248 | 10.08 | PPBV | # | 88 |
| 36) METHYL TERTIARY BUTYL ... | 2.888 | 73 | 206200 | 10.31 | PPBV | # | 94 |
| 37) TETRAHYDROFURAN | 3.654 | 72 | 39967 | 11.72 | PPBV | # | 66 |
| 38) HEXANE | 3.393 | 57 | 134757 | 9.62 | PPBV | # | 79 |
| 39) VINYL ACETATE | 2.933 | 86 | 19182 | 10.16 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.853 | 63 | 143695 | 9.74 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.039 | 72 | 40236 | 11.16 | PPBV | # | 33 |
| 42) CIS-1,2-DICHLOROETHENE | 3.255 | 96 | 75358 | 9.70 | PPBV | # | 79 |
| 43) DIISOPROPYL ETHER | 3.400 | 59 | 40736 | 10.68 | PPBV | # | 60 |
| 44) ETHYL ACETATE | 3.406 | 61 | 29693 | 10.57 | PPBV | # | 46 |
| 45) METHYL ACRYLATE | 3.393 | 55 | 177688 | 9.64 | PPBV | # | 98 |
| 46) CHLOROFORM | 3.422 | 83 | 167824 | 9.99 | PPBV | # | 95 |
| 47) 2,4-DIMETHYLPENTANE | 3.953 | 57 | 156709 | 9.98 | PPBV | | 94 |
| 48) 1,1,1-TRICHLOROETHANE | 4.043 | 97 | 151090 | 9.98 | PPBV | # | 92 |
| 49) CARBON TETRACHLORIDE | 4.499 | 117 | 135239 | 9.24 | PPBV | | 96 |
| 50) 1,2-DICHLOROETHANE | 3.869 | 62 | 117700 | 9.93 | PPBV | # | 95 |
| 51) BENZENE | 4.380 | 78 | 252851 | 10.97 | PPBV | | 88 |
| 53) CYCLOHEXANE | 4.602 | 84 | 102333 | 10.65 | PPBV | # | 83 |
| 54) 2,3-DIMETHYLPENTANE | 4.875 | 71 | 56895 | 10.82 | PPBV | # | 72 |
| 55) TRICHLOROETHENE | 5.345 | 95 | 105074 | 10.54 | PPBV | | 86 |
| 56) 1,2-DICHLOROPROPANE | 5.100 | 63 | 102602 | 10.16 | PPBV | | 98 |
| 57) DIBROMOMETHANE | 5.055 | 174 | 83169 | 9.80 | PPBV | # | 78 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26139.D
Acq On : 29 Sep 2022 4:28 pm
Operator : thomash
Sample : bsd
Misc : MS62314,V6W1111,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 13:41:48 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

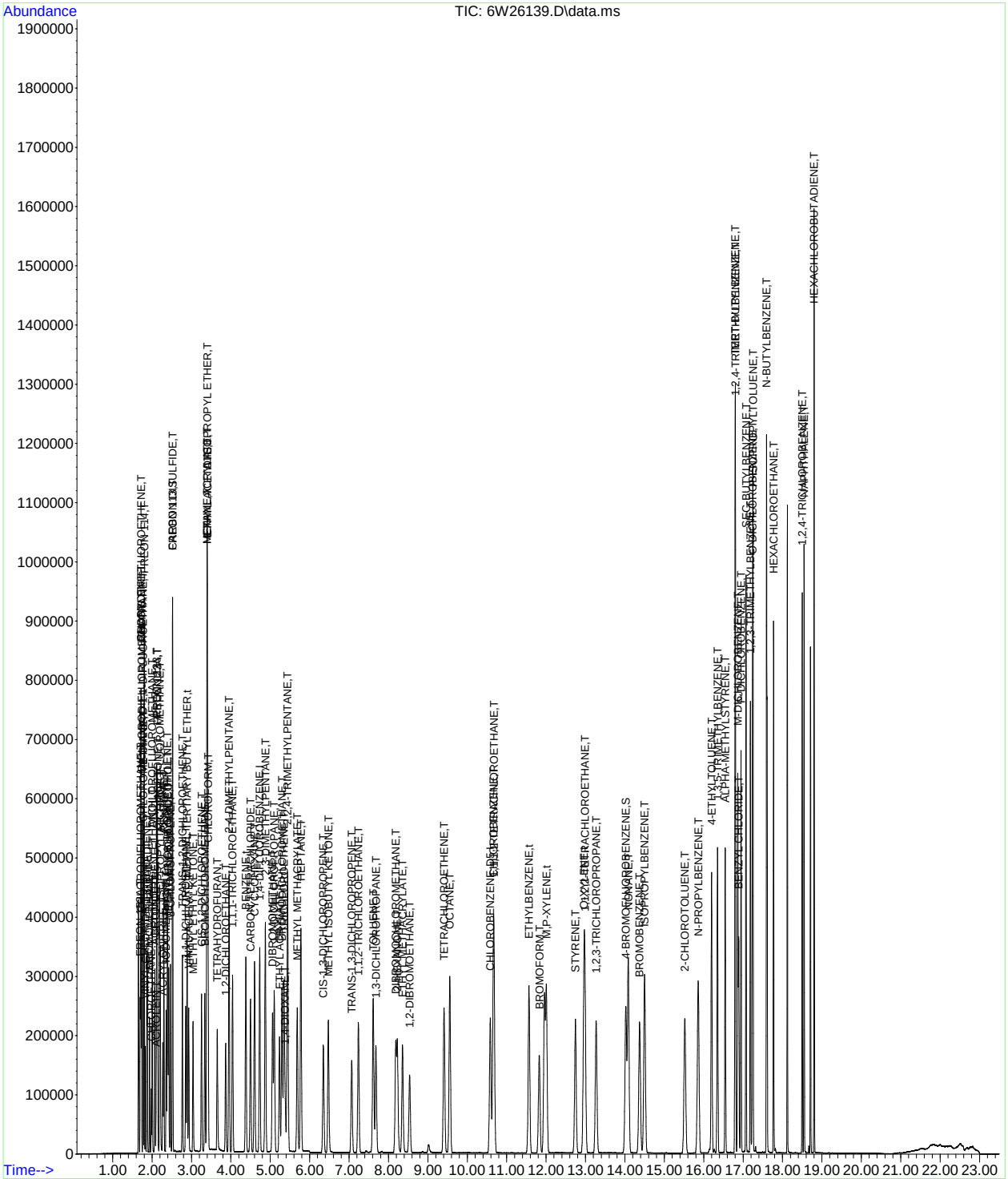
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 58) | ETHYL ACRYLATE | 5.236 | 55 | 216473 | 10.40 | PPBV | # | 97 |
| 59) | BROMODICHLOROMETHANE | 5.297 | 83 | 188213 | 10.14 | PPBV | | 98 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.438 | 57 | 444028 | 10.25 | PPBV | # | 98 |
| 61) | 1,4-DIOXANE | 5.377 | 88 | 58473 | 11.80 | PPBV | # | 81 |
| 62) | HEPTANE | 5.776 | 43 | 174759 | 12.07 | PPBV | # | 78 |
| 63) | METHYL METHACRYLATE | 5.686 | 69 | 100562 | 13.24 | PPBV | # | 61 |
| 64) | METHYL ISOBUTYL KETONE | 6.477 | 58 | 73055 | 12.14 | PPBV | # | 68 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.345 | 75 | 123157 | 10.94 | PPBV | # | 80 |
| 66) | TOLUENE | 7.612 | 91 | 248356 | 10.95 | PPBV | | 100 |
| 67) | 1,3-DICHLOROPROPANE | 7.682 | 76 | 138315 | 10.78 | PPBV | # | 98 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.065 | 75 | 110322 | 10.24 | PPBV | # | 82 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.235 | 83 | 81912 | 11.66 | PPBV | | 94 |
| 70) | 2-HEXANONE | 8.223 | 58 | 89807 | 11.50 | PPBV | # | 69 |
| 71) | ETHYL METHACRYLATE | 8.354 | 69 | 132966 | 11.60 | PPBV | # | 77 |
| 72) | TETRACHLOROETHENE | 9.409 | 164 | 80156 | 9.63 | PPBV | | 99 |
| 73) | DIBROMOCHLOROMETHANE | 8.184 | 129 | 127354 | 9.12 | PPBV | | 99 |
| 74) | 1,2-DIBROMOETHANE | 8.538 | 107 | 126952 | 9.97 | PPBV | | 99 |
| 75) | OCTANE | 9.554 | 43 | 191626 | 10.89 | PPBV | # | 79 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.676 | 131 | 87549 | 8.78 | PPBV | # | 81 |
| 78) | CHLOROBENZENE | 10.663 | 112 | 188003 | 9.63 | PPBV | | 91 |
| 79) | ETHYLBENZENE | 11.563 | 91 | 331602 | 10.57 | PPBV | | 94 |
| 80) | M,P-XYLENE | 12.007 | 91 | 507132m | 21.43 | PPBV | | |
| 81) | O-XYLENE | 12.959 | 91 | 257779 | 10.58 | PPBV | | 93 |
| 82) | STYRENE | 12.743 | 104 | 177508 | 10.30 | PPBV | | 94 |
| 83) | NONANE | 14.087 | 43 | 222791 | 10.29 | PPBV | # | 77 |
| 84) | BROMOFORM | 11.830 | 173 | 119527 | 8.43 | PPBV | | 99 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 12.988 | 83 | 219456 | 10.12 | PPBV | # | 99 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.271 | 75 | 168765 | 10.50 | PPBV | | 100 |
| 88) | ISOPROPYLBENZENE | 14.499 | 120 | 81275 | 9.88 | PPBV | # | 65 |
| 89) | BROMOBENZENE | 14.370 | 77 | 189664 | 9.86 | PPBV | # | 77 |
| 90) | 2-CHLOROTOLUENE | 15.521 | 126 | 65641 | 8.75 | PPBV | | 99 |
| 91) | N-PROPYLBENZENE | 15.862 | 120 | 78768 | 9.54 | PPBV | | 95 |
| 92) | 4-ETHYLTOLUENE | 16.200 | 105 | 326954 | 10.11 | PPBV | | 94 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.351 | 105 | 272038 | 9.98 | PPBV | # | 90 |
| 94) | ALPHA-METHYLSTYRENE | 16.547 | 118 | 115433 | 8.77 | PPBV | | 95 |
| 95) | TERT-BUTYLBENZENE | 16.798 | 134 | 57877 | 8.73 | PPBV | | 90 |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.804 | 105 | 292498 | 10.03 | PPBV | | 84 |
| 97) | BENZYL CHLORIDE | 16.888 | 91 | 187325 | 8.16 | PPBV | # | 91 |
| 98) | M-DICHLOROBENZENE | 16.865 | 146 | 167149 | 8.25 | PPBV | | 96 |
| 99) | P-DICHLOROBENZENE | 16.946 | 146 | 168334 | 8.31 | PPBV | | 96 |
| 100) | O-DICHLOROBENZENE | 17.238 | 146 | 165435 | 8.21 | PPBV | | 97 |
| 101) | SEC-BUTYLBENZENE | 17.074 | 134 | 73415 | 8.91 | PPBV | | 65 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.184 | 105 | 280539 | 9.86 | PPBV | # | 93 |
| 103) | P-ISOPROPYLTOLUENE | 17.251 | 134 | 81733 | 8.84 | PPBV | | 90 |
| 104) | N-BUTYLBENZENE | 17.595 | 134 | 77619 | 8.92 | PPBV | # | 44 |
| 105) | HEXACHLOROETHANE | 17.772 | 117 | 104902 | 7.90 | PPBV | # | 89 |
| 106) | HEXACHLOROBUTADIENE | 18.801 | 225 | 139621 | 7.24 | PPBV | | 99 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.499 | 180 | 137531 | 7.45 | PPBV | | 98 |
| 108) | NAPHTHALENE | 18.547 | 128 | 388886 | 8.73 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26139.D
Acq On : 29 Sep 2022 4:28 pm
Operator : thomash
Sample : bsd
Misc : MS62314,V6W1111,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 13:41:48 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



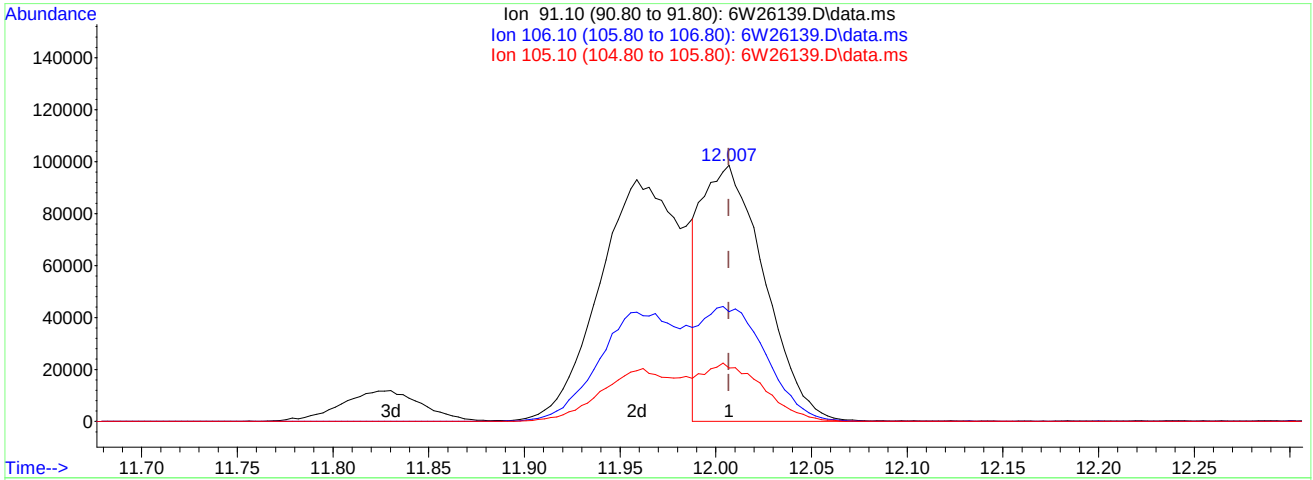
| | | | |
|---|---|---|---|
| **Sample Number:** | V6W1111-BSD | **Method:** | TO-15 |
| **Lab FileID:** | 6W26139.D | **Analyst approved:** | 09/30/22 13:56 William Cruser |
| **Injection Time:** | 09/29/22 16:28 | **Supervisor approved:** | 09/30/22 16:36 Kanya Veerawat |

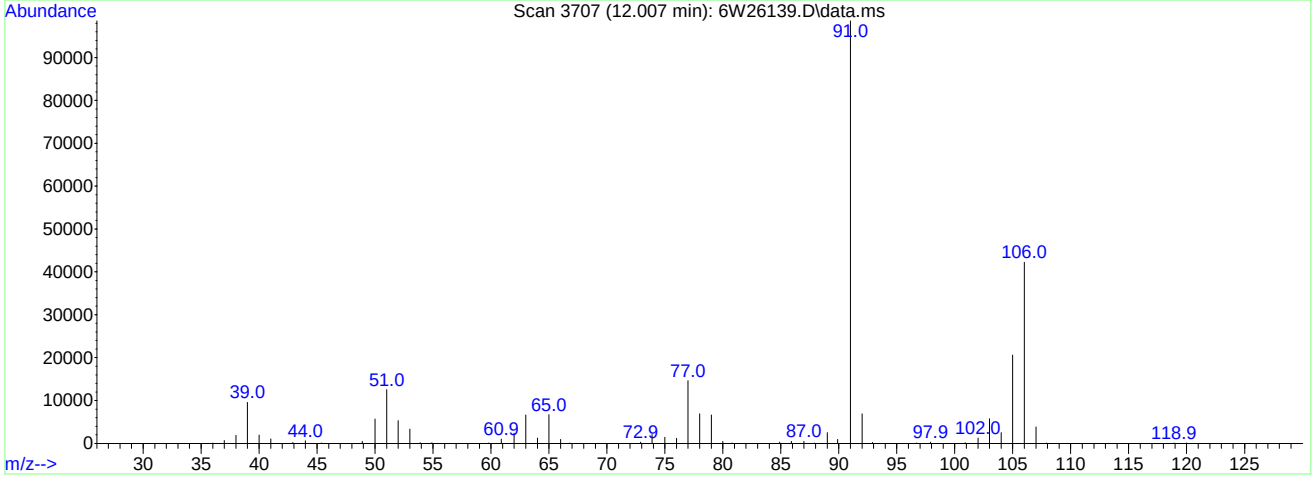
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| m,p-Xylene | | | 12.01 | Split peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26139.D
Acq On : 29 Sep 2022 4:28 pm
Operator : thomash
Sample : bsd
Misc : MS62314,V6W1111,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:53:32 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration




TIC: 6W26139.D\data.ms

(80) M,P-XYLENE (t)

12.007min (+0.000) 9.55PPBV

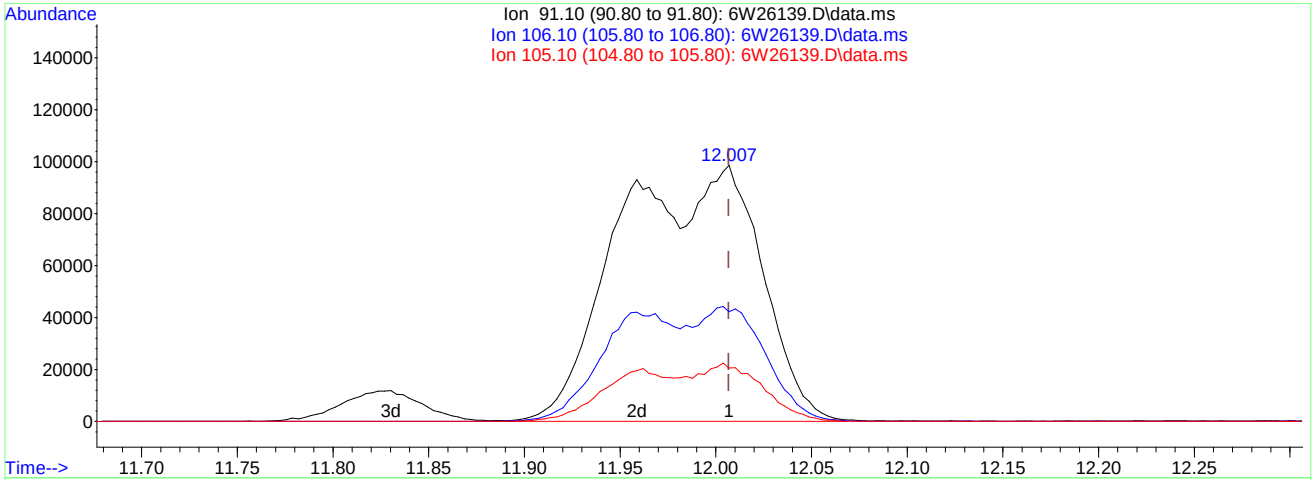
response 226122

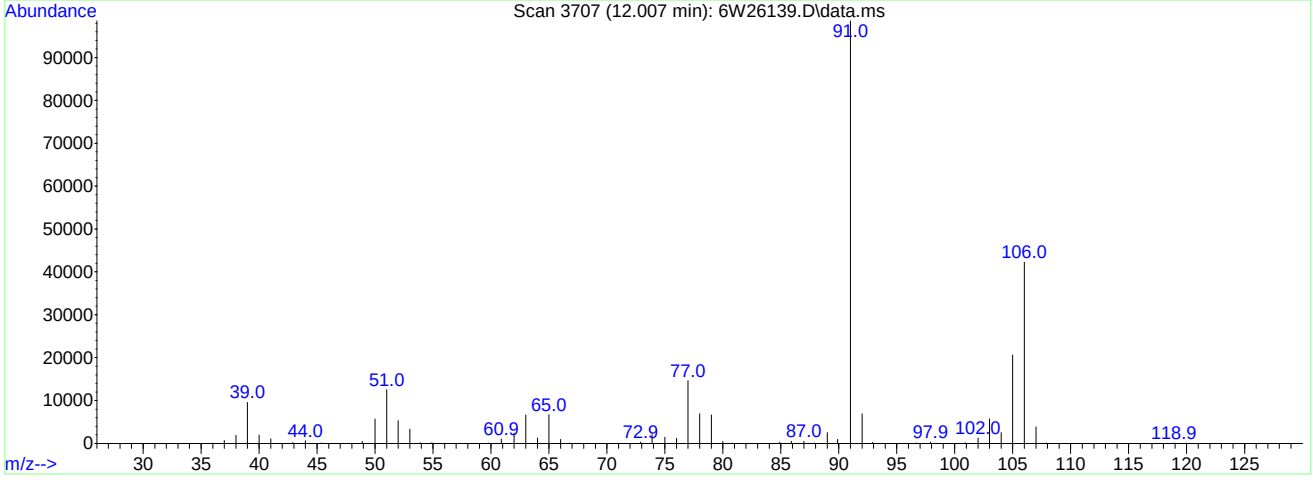
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 52.38 |
| 105.10 | 23.60 | 22.14 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26139.D
Acq On : 29 Sep 2022 4:28 pm
Operator : thomash
Sample : bsd
Misc : MS62314,V6W1111,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 16:53:32 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration




TIC: 6W26139.D\data.ms

(80) M,P-XYLENE (t)

12.007min (+0.000) 21.43PPBV m

response 507132

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 23.36# |
| 105.10 | 23.60 | 9.87 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61686.D
Acq On : 30 Sep 2022 8:44 am
Operator : thomash
Sample : bs
Misc : MS62556,V2w2737,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:21:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.615 | 128 | 75863 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.933 | 114 | 391798 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.589 | 117 | 334087 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.959 | 95 | 249508 | 11.22 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.853 | 65 | 62003 | 9.72 | PPBV | # | 100 |
| 4) CHLORODIFLUOROMETHANE | 1.869 | 67 | 27983 | 9.88 | PPBV | | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.885 | 116 | 145972 | 8.91 | PPBV | | 90 |
| 6) DICHLORODIFLUOROMETHANE | 1.904 | 85 | 362128 | 9.59 | PPBV | | 99 |
| 7) PROPYLENE | 1.879 | 41 | 56677 | 7.96 | PPBV | | 100 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.956 | 65 | 286088 | 10.07 | PPBV | | 96 |
| 9) FREON 114 | 2.001 | 85 | 338001 | 9.94 | PPBV | | 98 |
| 10) CHLOROMETHANE | 1.962 | 52 | 33250 | 8.75 | PPBV | | 97 |
| 11) VINYL CHLORIDE | 2.046 | 62 | 142155 | 10.77 | PPBV | | 99 |
| 12) 1,3-BUTADIENE | 2.094 | 54 | 94265 | 9.25 | PPBV | | 97 |
| 13) N-BUTANE | 2.117 | 43 | 148924 | 8.39 | PPBV | | 98 |
| 14) BROMOMETHANE | 2.194 | 94 | 119871 | 10.05 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.258 | 64 | 76375 | 10.81 | PPBV | | 96 |
| 16) DICHLOROFLUOROMETHANE | 2.290 | 67 | 286648 | 10.20 | PPBV | | 99 |
| 17) ACETONITRILE | 2.380 | 41 | 90058 | 8.53 | PPBV | | 99 |
| 18) ACROLEIN | 2.425 | 56 | 63928 | 13.72 | PPBV | | 96 |
| 19) FREON 123 | 2.441 | 83 | 340680 | 10.91 | PPBV | | 95 |
| 20) FREON 123A | 2.457 | 117 | 174904 | 9.68 | PPBV | | 86 |
| 21) TRICHLOROFLUOROMETHANE | 2.525 | 101 | 407668 | 10.38 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.541 | 45 | 283574 | 9.05 | PPBV | | 98 |
| 23) ACETONE | 2.467 | 58 | 82301 | 8.23 | PPBV | | 86 |
| 24) PENTANE | 2.637 | 42 | 167682 | 9.76 | PPBV | | 99 |
| 25) IODOMETHANE | 2.692 | 142 | 401109 | 10.45 | PPBV | | 99 |
| 26) 1,1-DICHLOROETHYLENE | 2.718 | 96 | 171568 | 11.38 | PPBV | | 95 |
| 27) CARBON DISULFIDE | 2.850 | 76 | 536605 | 11.82 | PPBV | | 97 |
| 28) ETHANOL | 2.297 | 45 | 44629 | 7.23 | PPBV | | 100 |
| 29) BROMOETHENE | 2.387 | 106 | 124101 | 10.19 | PPBV | | 99 |
| 30) ACRYLONITRILE | 2.608 | 52 | 124223 | 10.49 | PPBV | | 99 |
| 31) METHYLENE CHLORIDE | 2.753 | 84 | 165581 | 9.90 | PPBV | | 88 |
| 32) 3-CHLOROPROPENE | 2.795 | 76 | 83767 | 10.83 | PPBV | | 85 |
| 33) FREON 113 | 2.850 | 151 | 270756 | 10.66 | PPBV | | 96 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.084 | 96 | 126348 | 10.07 | PPBV | | 95 |
| 35) TERTIARY BUTYL ALCOHOL | 2.727 | 59 | 372975 | 9.44 | PPBV | # | 90 |
| 36) METHYL TERTIARY BUTYL ... | 3.194 | 73 | 287192 | 8.83 | PPBV | | 98 |
| 37) TETRAHYDROFURAN | 3.907 | 72 | 56126 | 10.23 | PPBV | | 88 |
| 38) HEXANE | 3.670 | 57 | 215549 | 9.83 | PPBV | | 92 |
| 39) VINYL ACETATE | 3.235 | 86 | 31941 | 10.34 | PPBV | | 70 |
| 40) 1,1-DICHLOROETHANE | 3.162 | 63 | 239156 | 10.65 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.335 | 72 | 59760 | 10.70 | PPBV | | 76 |
| 42) CIS-1,2-DICHLOROETHENE | 3.538 | 96 | 132823 | 9.86 | PPBV | | 97 |
| 43) DIISOPROPYL ETHER | 3.673 | 59 | 64461 | 10.04 | PPBV | | 68 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61686.D
Acq On : 30 Sep 2022 8:44 am
Operator : thomash
Sample : bs
Misc : MS62556,V2w2737,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:21:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.676 | 61 | 46486 | 10.35 | PPBV | | 65 |
| 45) METHYL ACRYLATE | 3.663 | 55 | 251566 | 9.76 | PPBV | # | 98 |
| 46) CHLOROFORM | 3.692 | 83 | 275178 | 10.02 | PPBV | | 96 |
| 47) 2,4-DIMETHYLPENTANE | 4.197 | 57 | 245466 | 9.61 | PPBV | | 99 |
| 48) 1,1,1-TRICHLOROETHANE | 4.280 | 97 | 261885 | 9.56 | PPBV | | 97 |
| 49) CARBON TETRACHLORIDE | 4.715 | 117 | 257121 | 9.48 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 4.113 | 62 | 190413 | 10.24 | PPBV | | 99 |
| 51) BENZENE | 4.599 | 78 | 378396 | 9.65 | PPBV | | 96 |
| 53) CYCLOHEXANE | 4.814 | 84 | 168397 | 10.19 | PPBV | | 97 |
| 54) 2,3-DIMETHYLPENTANE | 5.078 | 71 | 82900 | 10.21 | PPBV | | 99 |
| 55) TRICHLOROETHENE | 5.522 | 95 | 174816 | 10.53 | PPBV | | 96 |
| 56) 1,2-DICHLOROPROPANE | 5.280 | 63 | 160018 | 10.70 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.242 | 174 | 160397 | 9.39 | PPBV | | 97 |
| 58) ETHYL ACRYLATE | 5.399 | 55 | 297177 | 10.57 | PPBV | | 99 |
| 59) BROMODICHLOROMETHANE | 5.464 | 83 | 293021 | 10.69 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 655381 | 9.90 | PPBV | | 99 |
| 61) 1,4-DIOXANE | 5.525 | 88 | 85527 | 10.66 | PPBV | | 97 |
| 62) HEPTANE | 5.936 | 43 | 178607 | 8.57 | PPBV | | 88 |
| 63) METHYL METHACRYLATE | 5.830 | 69 | 137006 | 10.73 | PPBV | | 91 |
| 64) METHYL ISOBUTYL KETONE | 6.573 | 58 | 126595 | 11.88 | PPBV | | 86 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.473 | 75 | 201235 | 10.15 | PPBV | | 95 |
| 66) TOLUENE | 7.698 | 91 | 460479 | 9.75 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.753 | 76 | 230822 | 10.28 | PPBV | | 99 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.158 | 75 | 172421 | 9.71 | PPBV | | 96 |
| 69) 1,1,2-TRICHLOROETHANE | 7.325 | 83 | 140415 | 10.15 | PPBV | | 99 |
| 70) 2-HEXANONE | 8.258 | 58 | 163812 | 10.98 | PPBV | | 88 |
| 71) ETHYL METHACRYLATE | 8.399 | 69 | 220566 | 11.85 | PPBV | | 95 |
| 72) TETRACHLOROETHENE | 9.447 | 164 | 180217 | 9.53 | PPBV | | 98 |
| 73) DIBROMOCHLOROMETHANE | 8.242 | 129 | 283192 | 10.51 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.589 | 107 | 256407 | 10.18 | PPBV | | 99 |
| 75) OCTANE | 9.586 | 43 | 243079 | 8.68 | PPBV | | 91 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.672 | 131 | 191383 | 10.58 | PPBV | | 96 |
| 78) CHLOROBENZENE | 10.660 | 112 | 376876 | 10.50 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.547 | 91 | 609059 | 10.64 | PPBV | | 99 |
| 80) M,P-XYLENE | 11.981 | 91 | 943436 | 21.67 | PPBV | | 100 |
| 81) O-XYLENE | 12.917 | 91 | 484202 | 10.88 | PPBV | | 97 |
| 82) STYRENE | 12.701 | 104 | 361741 | 11.36 | PPBV | | 99 |
| 83) NONANE | 14.026 | 43 | 260973 | 9.50 | PPBV | | 89 |
| 84) BROMOFORM | 11.791 | 173 | 271070 | 11.77 | PPBV | | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.926 | 83 | 379424 | 11.46 | PPBV | | 97 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.209 | 75 | 265908 | 10.95 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.431 | 120 | 181513 | 9.62 | PPBV | | 97 |
| 89) BROMOBENZENE | 14.306 | 77 | 328427 | 10.66 | PPBV | | 98 |
| 90) 2-CHLOROTOLUENE | 15.444 | 126 | 164723 | 10.39 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.775 | 120 | 184736 | 10.66 | PPBV | | 99 |
| 92) 4-ETHYLTOLUENE | 16.148 | 105 | 696472 | 10.90 | PPBV | | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.302 | 105 | 581394 | 10.91 | PPBV | | 97 |
| 94) ALPHA-METHYLSTYRENE | 16.502 | 118 | 296156 | 13.21 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.762 | 134 | 143263 | 10.51 | PPBV | | 100 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.769 | 105 | 622282 | 10.92 | PPBV | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61686.D
Acq On : 30 Sep 2022 8:44 am
Operator : thomash
Sample : bs
Misc : MS62556,V2w2737,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:21:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

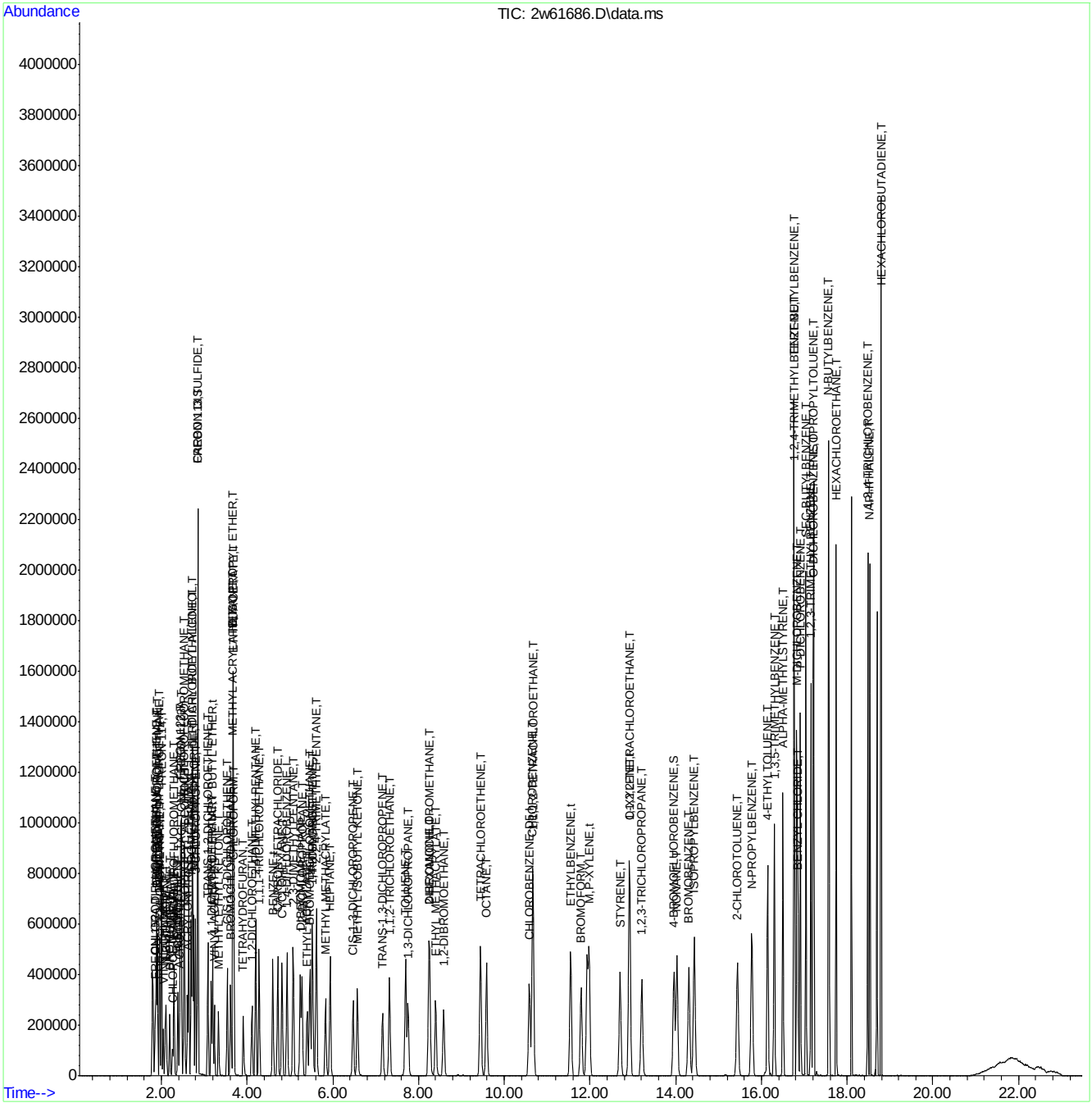
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.852 | 91 | 310699 | 8.81 | PPBV | 98 |
| 98) | M-DICHLOROBENZENE | 16.827 | 146 | 411229 | 10.98 | PPBV | 99 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 414919 | 10.93 | PPBV | 100 |
| 100) | O-DICHLOROBENZENE | 17.206 | 146 | 400754 | 10.87 | PPBV | 99 |
| 101) | SEC-BUTYLBENZENE | 17.042 | 134 | 179899 | 10.62 | PPBV | 95 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 599767 | 11.13 | PPBV | 98 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 202466 | 10.85 | PPBV | 97 |
| 104) | N-BUTYLBENZENE | 17.566 | 134 | 189783 | 11.00 | PPBV | 94 |
| 105) | HEXACHLOROETHANE | 17.746 | 117 | 229284 | 10.84 | PPBV | 98 |
| 106) | HEXACHLOROBUTADIENE | 18.791 | 225 | 312396 | 10.80 | PPBV | 100 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.479 | 180 | 337178 | 11.05 | PPBV | 98 |
| 108) | NAPHTHALENE | 18.531 | 128 | 826357 | 10.60 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61686.D
Acq On : 30 Sep 2022 8:44 am
Operator : thomash
Sample : bs
Misc : MS62556,V2w2737,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:21:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61687.D
Acq On : 30 Sep 2022 9:16 am
Operator : thomash
Sample : bsd
Misc : MS62556,V2w2737,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:21:28 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.615 | 128 | 79697 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 414059 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 356338 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.962 | 95 | 265492 | 11.19 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.846 | 65 | 65471 | 9.77 | PPBV | # | 100 |
| 4) CHLORODIFLUOROMETHANE | 1.862 | 67 | 28592 | 9.61 | PPBV | | 100 |
| 5) CHLOROTRIFLUOROETHENE | 1.878 | 116 | 151356 | 8.79 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.901 | 85 | 370766 | 9.35 | PPBV | | 99 |
| 7) PROPYLENE | 1.875 | 41 | 59677 | 7.97 | PPBV | | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.949 | 65 | 296059 | 9.92 | PPBV | | 96 |
| 9) FREON 114 | 1.997 | 85 | 346831 | 9.71 | PPBV | | 97 |
| 10) CHLOROMETHANE | 1.956 | 52 | 34644 | 8.68 | PPBV | | 95 |
| 11) VINYL CHLORIDE | 2.039 | 62 | 147137 | 10.61 | PPBV | | 100 |
| 12) 1,3-BUTADIENE | 2.091 | 54 | 100182 | 9.35 | PPBV | | 94 |
| 13) N-BUTANE | 2.110 | 43 | 152942 | 8.20 | PPBV | | 97 |
| 14) BROMOMETHANE | 2.187 | 94 | 120156 | 9.59 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.251 | 64 | 80818 | 10.89 | PPBV | # | 94 |
| 16) DICHLOROFLUOROMETHANE | 2.287 | 67 | 297892 | 10.09 | PPBV | | 99 |
| 17) ACETONITRILE | 2.374 | 41 | 92934 | 8.38 | PPBV | | 99 |
| 18) ACROLEIN | 2.419 | 56 | 65962 | 13.48 | PPBV | | 98 |
| 19) FREON 123 | 2.435 | 83 | 345571 | 10.53 | PPBV | | 95 |
| 20) FREON 123A | 2.454 | 117 | 179500 | 9.46 | PPBV | | 87 |
| 21) TRICHLOROFLUOROMETHANE | 2.521 | 101 | 415910 | 10.08 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.538 | 45 | 289849 | 8.80 | PPBV | | 100 |
| 23) ACETONE | 2.460 | 58 | 82334 | 7.84 | PPBV | | 89 |
| 24) PENTANE | 2.631 | 42 | 174468 | 9.67 | PPBV | | 97 |
| 25) IODOMETHANE | 2.689 | 142 | 409378 | 10.15 | PPBV | | 99 |
| 26) 1,1-DICHLOROETHYLENE | 2.714 | 96 | 174614 | 11.03 | PPBV | | 93 |
| 27) CARBON DISULFIDE | 2.846 | 76 | 545975 | 11.45 | PPBV | | 97 |
| 28) ETHANOL | 2.290 | 45 | 47166 | 7.28 | PPBV | | 99 |
| 29) BROMOETHENE | 2.383 | 106 | 129266 | 10.10 | PPBV | | 99 |
| 30) ACRYLONITRILE | 2.605 | 52 | 126717 | 10.19 | PPBV | | 98 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 171825 | 9.78 | PPBV | | 88 |
| 32) 3-CHLOROPROPENE | 2.792 | 76 | 85851 | 10.57 | PPBV | | 85 |
| 33) FREON 113 | 2.846 | 151 | 274822 | 10.30 | PPBV | | 96 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 130480 | 9.89 | PPBV | | 95 |
| 35) TERTIARY BUTYL ALCOHOL | 2.724 | 59 | 395971 | 9.54 | PPBV | # | 91 |
| 36) METHYL TERTIARY BUTYL ... | 3.190 | 73 | 297151 | 8.70 | PPBV | | 98 |
| 37) TETRAHYDROFURAN | 3.907 | 72 | 58746 | 10.20 | PPBV | | 88 |
| 38) HEXANE | 3.666 | 57 | 223821 | 9.72 | PPBV | | 92 |
| 39) VINYL ACETATE | 3.229 | 86 | 33051 | 10.18 | PPBV | | 71 |
| 40) 1,1-DICHLOROETHANE | 3.158 | 63 | 245017 | 10.38 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.329 | 72 | 61283 | 10.44 | PPBV | | 77 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 136310 | 9.63 | PPBV | | 97 |
| 43) DIISOPROPYL ETHER | 3.666 | 59 | 68385 | 10.14 | PPBV | | 64 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61687.D
Acq On : 30 Sep 2022 9:16 am
Operator : thomash
Sample : bsd
Misc : MS62556,V2w2737,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:21:28 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.673 | 61 | 48945 | 10.37 | PPBV | | 61 |
| 45) METHYL ACRYLATE | 3.660 | 55 | 262755 | 9.70 | PPBV | # | 98 |
| 46) CHLOROFORM | 3.689 | 83 | 283911 | 9.84 | PPBV | | 96 |
| 47) 2,4-DIMETHYLPENTANE | 4.197 | 57 | 248972 | 9.28 | PPBV | | 100 |
| 48) 1,1,1-TRICHLOROETHANE | 4.277 | 97 | 270610 | 9.41 | PPBV | | 98 |
| 49) CARBON TETRACHLORIDE | 4.711 | 117 | 266433 | 9.35 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 4.107 | 62 | 196185 | 10.04 | PPBV | | 99 |
| 51) BENZENE | 4.599 | 78 | 391894 | 9.52 | PPBV | | 95 |
| 53) CYCLOHEXANE | 4.814 | 84 | 175119 | 10.02 | PPBV | | 97 |
| 54) 2,3-DIMETHYLPENTANE | 5.074 | 71 | 85350 | 9.95 | PPBV | | 100 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 180967 | 10.31 | PPBV | | 96 |
| 56) 1,2-DICHLOROPROPANE | 5.280 | 63 | 166846 | 10.56 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.238 | 174 | 166393 | 9.21 | PPBV | | 97 |
| 58) ETHYL ACRYLATE | 5.396 | 55 | 312130 | 10.51 | PPBV | | 99 |
| 59) BROMODICHLOROMETHANE | 5.460 | 83 | 301268 | 10.40 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 676394 | 9.67 | PPBV | | 99 |
| 61) 1,4-DIOXANE | 5.528 | 88 | 91565 | 10.80 | PPBV | | 97 |
| 62) HEPTANE | 5.939 | 43 | 186768 | 8.48 | PPBV | | 89 |
| 63) METHYL METHACRYLATE | 5.830 | 69 | 143868 | 10.66 | PPBV | | 90 |
| 64) METHYL ISOBUTYL KETONE | 6.573 | 58 | 130675 | 11.60 | PPBV | | 88 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.473 | 75 | 208075 | 9.94 | PPBV | | 96 |
| 66) TOLUENE | 7.698 | 91 | 476127 | 9.54 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.756 | 76 | 238926 | 10.07 | PPBV | | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.161 | 75 | 177917 | 9.48 | PPBV | | 96 |
| 69) 1,1,2-TRICHLOROETHANE | 7.325 | 83 | 146236 | 10.00 | PPBV | | 98 |
| 70) 2-HEXANONE | 8.264 | 58 | 171367 | 10.87 | PPBV | | 88 |
| 71) ETHYL METHACRYLATE | 8.402 | 69 | 229884 | 11.69 | PPBV | | 94 |
| 72) TETRACHLOROETHENE | 9.450 | 164 | 187058 | 9.36 | PPBV | | 99 |
| 73) DIBROMOCHLOROMETHANE | 8.238 | 129 | 292214 | 10.26 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.586 | 107 | 269176 | 10.11 | PPBV | | 99 |
| 75) OCTANE | 9.592 | 43 | 255656 | 8.64 | PPBV | | 92 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.675 | 131 | 198542 | 10.29 | PPBV | | 97 |
| 78) CHLOROBENZENE | 10.659 | 112 | 388372 | 10.14 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.550 | 91 | 640545 | 10.49 | PPBV | | 98 |
| 80) M,P-XYLENE | 11.981 | 91 | 980682 | 21.12 | PPBV | | 97 |
| 81) O-XYLENE | 12.917 | 91 | 501887 | 10.57 | PPBV | | 97 |
| 82) STYRENE | 12.704 | 104 | 382768 | 11.27 | PPBV | | 99 |
| 83) NONANE | 14.032 | 43 | 271465 | 9.26 | PPBV | | 89 |
| 84) BROMOFORM | 11.791 | 173 | 284445 | 11.58 | PPBV | | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.926 | 83 | 395887 | 11.21 | PPBV | | 97 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.212 | 75 | 278294 | 10.74 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.434 | 120 | 186343 | 9.26 | PPBV | | 96 |
| 89) BROMOBENZENE | 14.309 | 77 | 345050 | 10.51 | PPBV | | 97 |
| 90) 2-CHLOROTOLUENE | 15.441 | 126 | 173613 | 10.27 | PPBV | | 98 |
| 91) N-PROPYLBENZENE | 15.781 | 120 | 191466 | 10.36 | PPBV | | 99 |
| 92) 4-ETHYLTOLUENE | 16.148 | 105 | 728196 | 10.69 | PPBV | | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.302 | 105 | 604173 | 10.63 | PPBV | | 98 |
| 94) ALPHA-METHYLSTYRENE | 16.502 | 118 | 307119 | 12.84 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.759 | 134 | 150277 | 10.33 | PPBV | | 99 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.769 | 105 | 652290 | 10.74 | PPBV | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61687.D
Acq On : 30 Sep 2022 9:16 am
Operator : thomash
Sample : bsd
Misc : MS62556,V2w2737,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:21:28 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

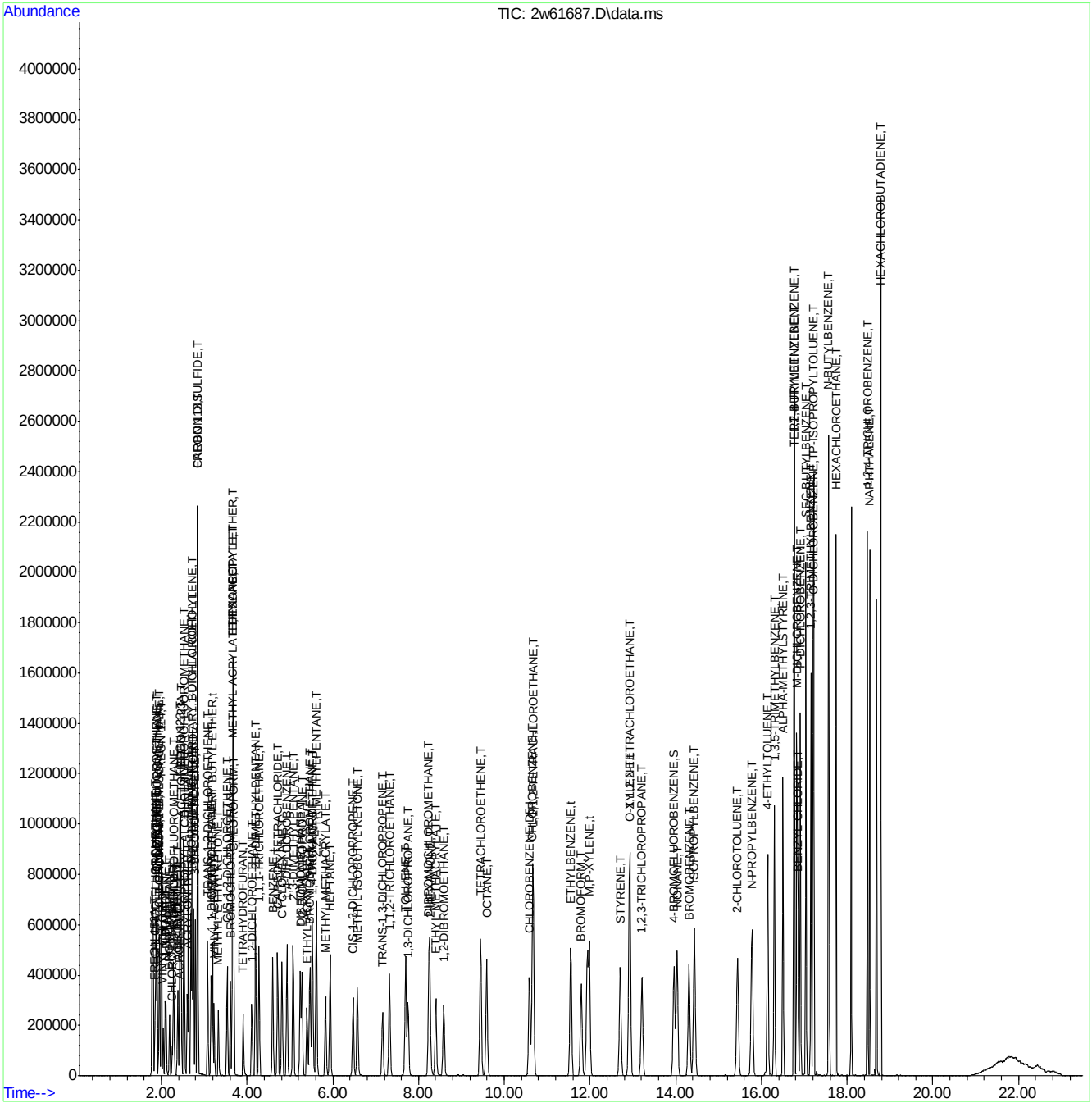
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.852 | 91 | 321147 | 8.54 | PPBV | 97 |
| 98) | M-DICHLOROBENZENE | 16.826 | 146 | 423619 | 10.61 | PPBV | 100 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 425355 | 10.51 | PPBV | 100 |
| 100) | O-DICHLOROBENZENE | 17.203 | 146 | 412917 | 10.50 | PPBV | 99 |
| 101) | SEC-BUTYLBENZENE | 17.039 | 134 | 184292 | 10.20 | PPBV | 93 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 623574 | 10.85 | PPBV | 98 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 207004 | 10.40 | PPBV | 99 |
| 104) | N-BUTYLBENZENE | 17.563 | 134 | 189200 | 10.28 | PPBV | 91 |
| 105) | HEXACHLOROETHANE | 17.743 | 117 | 236033 | 10.46 | PPBV | 98 |
| 106) | HEXACHLOROBUTADIENE | 18.784 | 225 | 319788 | 10.37 | PPBV | 100 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.476 | 180 | 344837 | 10.59 | PPBV | 98 |
| 108) | NAPHTHALENE | 18.524 | 128 | 847558 | 10.19 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61687.D
Acq On : 30 Sep 2022 9:16 am
Operator : thomash
Sample : bsd
Misc : MS62556,V2w2737,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:21:28 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w59299.D
Acq On : 14 May 2022 4:25 pm
Operator : thomash
Sample : bs
Misc : MS58854,V2w2637,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 17:07:29 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.470 | 128 | 264009 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.849 | 114 | 1659308 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.640 | 117 | 1512777 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.055 | 95 | 1190566 | 10.86 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) FREON 115 | 1.785 | 119 | 271894 | 5.17 | PPBV | # | 100 |
| 3) FREON 152A | 1.817 | 65 | 338386 | 10.88 | PPBV | # | 59 |
| 4) CHLORODIFLUOROMETHANE | 1.827 | 67 | 177457 | 12.58 | PPBV | # | 83 |
| 5) CHLOROTRIFLUOROETHENE | 1.837 | 116 | 663043 | 10.69 | PPBV | # | 99 |
| 6) DICHLORODIFLUOROMETHANE | 1.853 | 85 | 1500822 | 10.73 | PPBV | # | 93 |
| 7) PROPYLENE | 1.833 | 41 | 657804 | 11.56 | PPBV | | 98 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.891 | 65 | 1292140 | 13.14 | PPBV | # | 71 |
| 9) FREON 114 | 1.924 | 85 | 1300448 | 11.26 | PPBV | | 89 |
| 10) CHLOROMETHANE | 1.898 | 52 | 191981 | 10.25 | PPBV | # | 53 |
| 11) VINYL CHLORIDE | 1.956 | 62 | 529116 | 10.71 | PPBV | | 95 |
| 12) 1,3-BUTADIENE | 1.991 | 54 | 524243 | 11.08 | PPBV | # | 74 |
| 13) N-BUTANE | 2.004 | 43 | 1045920 | 10.77 | PPBV | # | 88 |
| 14) BROMOMETHANE | 2.062 | 94 | 388917 | 10.31 | PPBV | | 100 |
| 15) CHLOROETHANE | 2.107 | 64 | 253175 | 10.53 | PPBV | # | 65 |
| 16) DICHLOROFLUOROMETHANE | 2.129 | 67 | 1035526 | 11.11 | PPBV | # | 92 |
| 17) ACETONITRILE | 2.197 | 41 | 574168 | 11.11 | PPBV | # | 96 |
| 18) ACROLEIN | 2.235 | 56 | 229434 | 9.72 | PPBV | | 95 |
| 19) FREON 123 | 2.248 | 83 | 980221 | 10.73 | PPBV | | 98 |
| 20) FREON 123A | 2.264 | 117 | 579843 | 11.11 | PPBV | | 89 |
| 21) TRICHLOROFLUOROMETHANE | 2.322 | 101 | 1358617 | 12.49 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.338 | 45 | 1397708 | 11.09 | PPBV | # | 98 |
| 23) ACETONE | 2.268 | 58 | 288093 | 9.69 | PPBV | # | 8 |
| 24) PENTANE | 2.435 | 42 | 727951 | 11.25 | PPBV | # | 91 |
| 25) IODOMETHANE | 2.493 | 142 | 992948 | 10.70 | PPBV | # | 67 |
| 26) 1,1-DICHLOROETHYLENE | 2.518 | 96 | 402154 | 10.62 | PPBV | # | 22 |
| 27) CARBON DISULFIDE | 2.657 | 76 | 1162549 | 10.54 | PPBV | # | 78 |
| 28) ETHANOL | 2.136 | 45 | 304423 | 10.89 | PPBV | | 97 |
| 29) BROMOETHENE | 2.203 | 106 | 400703 | 10.66 | PPBV | # | 97 |
| 30) ACRYLONITRILE | 2.406 | 52 | 476462 | 11.07 | PPBV | | 94 |
| 31) METHYLENE CHLORIDE | 2.557 | 84 | 360210 | 8.63 | PPBV | # | 1 |
| 32) 3-CHLOROPROPENE | 2.599 | 76 | 176116 | 10.11 | PPBV | # | 1 |
| 33) FREON 113 | 2.657 | 151 | 661389 | 11.15 | PPBV | | 83 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.907 | 96 | 403043 | 10.23 | PPBV | # | 58 |
| 35) TERTIARY BUTYL ALCOHOL | 2.531 | 59 | 1277982 | 11.99 | PPBV | # | 83 |
| 36) METHYL TERTIARY BUTYL ... | 3.023 | 73 | 1262502 | 10.99 | PPBV | # | 80 |
| 37) TETRAHYDROFURAN | 3.782 | 72 | 170002 | 9.93 | PPBV | # | 1 |
| 38) HEXANE | 3.525 | 57 | 952677 | 10.73 | PPBV | # | 64 |
| 39) VINYL ACETATE | 3.071 | 86 | 95713 | 10.82 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.991 | 63 | 911836 | 11.27 | PPBV | | 95 |
| 41) METHYL ETHYL KETONE | 3.174 | 72 | 179624 | 9.84 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.386 | 96 | 399700 | 10.41 | PPBV | # | 58 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w59299.D
Acq On : 14 May 2022 4:25 pm
Operator : thomash
Sample : bs
Misc : MS58854,V2w2637,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 17:07:29 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 43) DIISOPROPYL ETHER | 3.534 | 59 | 263743 | 10.67 | PPBV | # | 7 |
| 44) ETHYL ACETATE | 3.541 | 61 | 162109 | 10.10 | PPBV | # | 1 |
| 45) METHYL ACRYLATE | 3.522 | 55 | 1245796 | 10.96 | PPBV | # | 96 |
| 46) CHLOROFORM | 3.554 | 83 | 977638 | 11.31 | PPBV | # | 86 |
| 47) 2,4-DIMETHYLPENTANE | 4.081 | 57 | 1103311 | 10.75 | PPBV | # | 89 |
| 48) 1,1,1-TRICHLOROETHANE | 4.168 | 97 | 1072561 | 12.04 | PPBV | # | 92 |
| 49) CARBON TETRACHLORIDE | 4.618 | 117 | 1214406 | 12.92 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.994 | 62 | 849412 | 12.75 | PPBV | # | 91 |
| 51) BENZENE | 4.499 | 78 | 1364977 | 11.39 | PPBV | # | 53 |
| 53) CYCLOHEXANE | 4.721 | 84 | 608453 | 10.51 | PPBV | # | 31 |
| 54) 2,3-DIMETHYLPENTANE | 4.997 | 71 | 321212 | 10.18 | PPBV | # | 1 |
| 55) TRICHLOROETHENE | 5.460 | 95 | 693039 | 11.14 | PPBV | | 91 |
| 56) 1,2-DICHLOROPROPANE | 5.213 | 63 | 691238 | 10.54 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.171 | 174 | 550231 | 10.00 | PPBV | # | 82 |
| 58) ETHYL ACRYLATE | 5.341 | 55 | 1919480 | 11.55 | PPBV | # | 95 |
| 59) BROMODICHLOROMETHANE | 5.406 | 83 | 1245166 | 11.67 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.554 | 57 | 3833615 | 11.35 | PPBV | # | 97 |
| 61) 1,4-DIOXANE | 5.476 | 88 | 313278 | 10.00 | PPBV | # | 47 |
| 62) HEPTANE | 5.888 | 43 | 1712042 | 12.21 | PPBV | # | 60 |
| 63) METHYL METHACRYLATE | 5.785 | 69 | 552568 | 10.25 | PPBV | # | 1 |
| 64) METHYL ISOBUTYL KETONE | 6.557 | 58 | 698916 | 10.95 | PPBV | # | 45 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.444 | 75 | 850707 | 10.55 | PPBV | # | 49 |
| 66) TOLUENE | 7.698 | 91 | 1858597 | 10.67 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.759 | 76 | 938934 | 10.94 | PPBV | # | 96 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.152 | 75 | 780541 | 10.39 | PPBV | # | 57 |
| 69) 1,1,2-TRICHLOROETHANE | 7.319 | 83 | 545675 | 10.76 | PPBV | | 99 |
| 70) 2-HEXANONE | 8.287 | 58 | 877944 | 10.70 | PPBV | # | 48 |
| 71) ETHYL METHACRYLATE | 8.428 | 69 | 964306 | 10.61 | PPBV | # | 34 |
| 72) TETRACHLOROETHENE | 9.483 | 164 | 690966 | 11.63 | PPBV | | 90 |
| 73) DIBROMOCHLOROMETHANE | 8.258 | 129 | 1240843 | 11.48 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.611 | 107 | 1005898 | 10.87 | PPBV | | 99 |
| 75) OCTANE | 9.627 | 43 | 2455367 | 12.68 | PPBV | # | 64 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.733 | 131 | 853089 | 11.39 | PPBV | # | 87 |
| 78) CHLOROBENZENE | 10.721 | 112 | 1491504 | 10.59 | PPBV | | 95 |
| 79) ETHYLBENZENE | 11.618 | 91 | 2548565 | 11.03 | PPBV | | 96 |
| 80) M,P-XYLENE | 12.055 | 91 | 4121565 | 23.40 | PPBV | # | 65 |
| 81) O-XYLENE | 13.003 | 91 | 2102597 | 11.80 | PPBV | | 96 |
| 82) STYRENE | 12.788 | 104 | 1420089 | 10.95 | PPBV | | 94 |
| 83) NONANE | 14.129 | 43 | 2632800 | 12.88 | PPBV | # | 66 |
| 84) BROMOFORM | 11.868 | 173 | 1092781 | 12.18 | PPBV | # | 95 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 13.020 | 83 | 1488674 | 11.85 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.306 | 75 | 1142335 | 11.87 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.537 | 120 | 765804 | 11.45 | PPBV | # | 72 |
| 89) BROMOBENZENE | 14.412 | 77 | 1344181 | 11.01 | PPBV | | 89 |
| 90) 2-CHLOROTOLUENE | 15.550 | 126 | 641174 | 11.24 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.888 | 120 | 774980 | 11.72 | PPBV | | 98 |
| 92) 4-ETHYLTOLUENE | 16.216 | 105 | 2971642 | 12.07 | PPBV | | 97 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.363 | 105 | 2552820 | 12.41 | PPBV | # | 94 |
| 94) ALPHA-METHYLSTYRENE | 16.553 | 118 | 1202605 | 11.91 | PPBV | | 97 |
| 95) TERT-BUTYLBENZENE | 16.807 | 134 | 522321 | 11.61 | PPBV | | 74 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w59299.D
Acq On : 14 May 2022 4:25 pm
Operator : thomash
Sample : bs
Misc : MS58854,V2w2637,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 17:07:29 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration

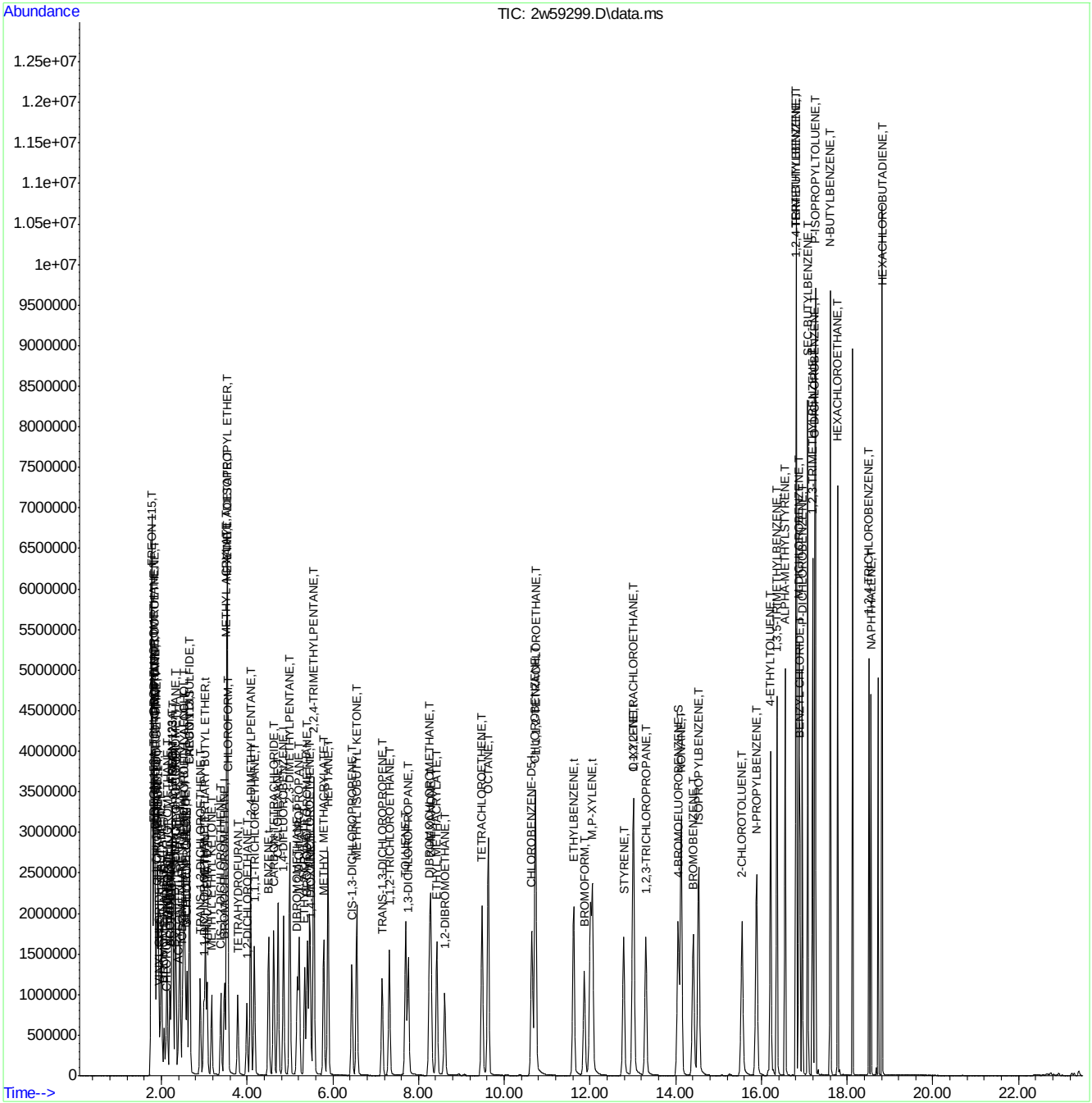
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 96) 1,2,4-TRIMETHYLBENZENE | 16.817 | 105 | 2507404 | 12.55 | PPBV | | 94 |
| 97) BENZYL CHLORIDE | 16.897 | 91 | 1654259 | 10.44 | PPBV | # | 94 |
| 98) M-DICHLOROBENZENE | 16.875 | 146 | 1318996 | 11.90 | PPBV | | 96 |
| 99) P-DICHLOROBENZENE | 16.955 | 146 | 1247368 | 11.41 | PPBV | | 96 |
| 100) O-DICHLOROBENZENE | 17.244 | 146 | 1265095 | 12.23 | PPBV | | 96 |
| 101) SEC-BUTYLBENZENE | 17.080 | 134 | 641794 | 11.88 | PPBV | | 72 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.193 | 105 | 2390721 | 12.44 | PPBV | # | 94 |
| 103) P-ISOPROPYLTOLUENE | 17.257 | 134 | 679408 | 12.03 | PPBV | | 73 |
| 104) N-BUTYLBENZENE | 17.601 | 134 | 612933 | 11.95 | PPBV | # | 64 |
| 105) HEXACHLOROETHANE | 17.778 | 117 | 940644 | 11.91 | PPBV | # | 88 |
| 106) HEXACHLOROBUTADIENE | 18.817 | 225 | 916966 | 13.48 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.508 | 180 | 735812 | 10.12 | PPBV | | 97 |
| 108) NAPHTHALENE | 18.556 | 128 | 1863663 | 10.98 | PPBV | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w59299.D
Acq On : 14 May 2022 4:25 pm
Operator : thomash
Sample : bs
Misc : MS58854,V2w2637,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 17:07:29 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w59300.D
Acq On : 14 May 2022 5:05 pm
Operator : thomash
Sample : bsd
Misc : MS58854,V2w2637,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 17:53:16 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.470 | 128 | 263806 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.849 | 114 | 1667235 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.643 | 117 | 1491993 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.055 | 95 | 1179878 | 10.91 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) FREON 115 | 1.788 | 119 | 393044 | 7.48 | PPBV | # | 100 |
| 3) FREON 152A | 1.817 | 65 | 341037 | 10.97 | PPBV | # | 53 |
| 4) CHLORODIFLUOROMETHANE | 1.827 | 67 | 172325 | 12.22 | PPBV | # | 88 |
| 5) CHLOROTRIFLUOROETHENE | 1.837 | 116 | 666896 | 10.76 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.856 | 85 | 1463805 | 10.47 | PPBV | # | 92 |
| 7) PROPYLENE | 1.833 | 41 | 658916 | 11.59 | PPBV | | 97 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.891 | 65 | 1301818 | 13.25 | PPBV | # | 71 |
| 9) FREON 114 | 1.923 | 85 | 1325402 | 11.49 | PPBV | | 89 |
| 10) CHLOROMETHANE | 1.898 | 52 | 193000 | 10.31 | PPBV | # | 53 |
| 11) VINYL CHLORIDE | 1.956 | 62 | 528359 | 10.70 | PPBV | | 95 |
| 12) 1,3-BUTADIENE | 1.991 | 54 | 535501 | 11.32 | PPBV | # | 75 |
| 13) N-BUTANE | 2.004 | 43 | 1054256 | 10.87 | PPBV | # | 88 |
| 14) BROMOMETHANE | 2.062 | 94 | 392472 | 10.41 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.107 | 64 | 252849 | 10.53 | PPBV | # | 63 |
| 16) DICHLOROFLUOROMETHANE | 2.129 | 67 | 1051497 | 11.29 | PPBV | # | 92 |
| 17) ACETONITRILE | 2.197 | 41 | 575511 | 11.15 | PPBV | # | 95 |
| 18) ACROLEIN | 2.232 | 56 | 229514 | 9.73 | PPBV | | 94 |
| 19) FREON 123 | 2.245 | 83 | 988522 | 10.83 | PPBV | | 98 |
| 20) FREON 123A | 2.261 | 117 | 584840 | 11.22 | PPBV | | 89 |
| 21) TRICHLOROFLUOROMETHANE | 2.325 | 101 | 1377185 | 12.67 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.338 | 45 | 1413128 | 11.22 | PPBV | # | 99 |
| 23) ACETONE | 2.271 | 58 | 290453 | 9.78 | PPBV | # | 9 |
| 24) PENTANE | 2.435 | 42 | 728767 | 11.28 | PPBV | # | 91 |
| 25) IODOMETHANE | 2.489 | 142 | 1017102 | 10.97 | PPBV | # | 69 |
| 26) 1,1-DICHLOROETHYLENE | 2.518 | 96 | 409712 | 10.83 | PPBV | # | 23 |
| 27) CARBON DISULFIDE | 2.657 | 76 | 1183058 | 10.74 | PPBV | # | 79 |
| 28) ETHANOL | 2.136 | 45 | 307224 | 11.00 | PPBV | | 98 |
| 29) BROMOETHENE | 2.203 | 106 | 402892 | 10.73 | PPBV | # | 96 |
| 30) ACRYLONITRILE | 2.406 | 52 | 481453 | 11.20 | PPBV | | 94 |
| 31) METHYLENE CHLORIDE | 2.557 | 84 | 369174 | 8.85 | PPBV | # | 1 |
| 32) 3-CHLOROPROPENE | 2.599 | 76 | 176210 | 10.12 | PPBV | # | 1 |
| 33) FREON 113 | 2.657 | 151 | 667507 | 11.26 | PPBV | | 82 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.907 | 96 | 414153 | 10.52 | PPBV | # | 58 |
| 35) TERTIARY BUTYL ALCOHOL | 2.531 | 59 | 1302444 | 12.23 | PPBV | # | 83 |
| 36) METHYL TERTIARY BUTYL ... | 3.026 | 73 | 1277519 | 11.13 | PPBV | # | 81 |
| 37) TETRAHYDROFURAN | 3.779 | 72 | 170158 | 9.94 | PPBV | # | 1 |
| 38) HEXANE | 3.525 | 57 | 975861 | 11.00 | PPBV | # | 65 |
| 39) VINYL ACETATE | 3.068 | 86 | 98651 | 11.16 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.991 | 63 | 926514 | 11.46 | PPBV | | 95 |
| 41) METHYL ETHYL KETONE | 3.174 | 72 | 184416 | 10.11 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.386 | 96 | 409446 | 10.68 | PPBV | # | 59 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w59300.D
Acq On : 14 May 2022 5:05 pm
Operator : thomash
Sample : bsd
Misc : MS58854,V2w2637,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 17:53:16 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 43) DIISOPROPYL ETHER | 3.534 | 59 | 266772 | 10.80 | PPBV | # | 7 |
| 44) ETHYL ACETATE | 3.541 | 61 | 167566 | 10.45 | PPBV | # | 1 |
| 45) METHYL ACRYLATE | 3.525 | 55 | 1268919 | 11.17 | PPBV | # | 95 |
| 46) CHLOROFORM | 3.550 | 83 | 1002353 | 11.61 | PPBV | # | 86 |
| 47) 2,4-DIMETHYLPENTANE | 4.081 | 57 | 1121550 | 10.94 | PPBV | # | 89 |
| 48) 1,1,1-TRICHLOROETHANE | 4.168 | 97 | 1093845 | 12.29 | PPBV | # | 92 |
| 49) CARBON TETRACHLORIDE | 4.621 | 117 | 1211182 | 12.90 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.994 | 62 | 860217 | 12.93 | PPBV | # | 91 |
| 51) BENZENE | 4.502 | 78 | 1368714 | 11.43 | PPBV | # | 53 |
| 53) CYCLOHEXANE | 4.721 | 84 | 609075 | 10.47 | PPBV | # | 32 |
| 54) 2,3-DIMETHYLPENTANE | 4.994 | 71 | 323815 | 10.21 | PPBV | # | 1 |
| 55) TRICHLOROETHENE | 5.460 | 95 | 705137 | 11.28 | PPBV | | 92 |
| 56) 1,2-DICHLOROPROPANE | 5.216 | 63 | 695094 | 10.55 | PPBV | | 95 |
| 57) DIBROMOMETHANE | 5.168 | 174 | 552616 | 10.00 | PPBV | # | 82 |
| 58) ETHYL ACRYLATE | 5.341 | 55 | 1938819 | 11.61 | PPBV | # | 95 |
| 59) BROMODICHLOROMETHANE | 5.406 | 83 | 1258188 | 11.74 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.554 | 57 | 3876844 | 11.42 | PPBV | # | 97 |
| 61) 1,4-DIOXANE | 5.476 | 88 | 317804 | 10.10 | PPBV | # | 46 |
| 62) HEPTANE | 5.888 | 43 | 1728728 | 12.27 | PPBV | # | 60 |
| 63) METHYL METHACRYLATE | 5.785 | 69 | 560136 | 10.34 | PPBV | # | 1 |
| 64) METHYL ISOBUTYL KETONE | 6.557 | 58 | 711671 | 11.09 | PPBV | # | 47 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.444 | 75 | 853885 | 10.53 | PPBV | # | 49 |
| 66) TOLUENE | 7.698 | 91 | 1868952 | 10.68 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.762 | 76 | 951155 | 11.03 | PPBV | # | 96 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.152 | 75 | 786111 | 10.41 | PPBV | # | 56 |
| 69) 1,1,2-TRICHLOROETHANE | 7.319 | 83 | 558366 | 10.96 | PPBV | | 100 |
| 70) 2-HEXANONE | 8.287 | 58 | 890536 | 10.80 | PPBV | # | 49 |
| 71) ETHYL METHACRYLATE | 8.428 | 69 | 971485 | 10.64 | PPBV | # | 33 |
| 72) TETRACHLOROETHENE | 9.483 | 164 | 698007 | 11.69 | PPBV | | 89 |
| 73) DIBROMOCHLOROMETHANE | 8.254 | 129 | 1264927 | 11.64 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.611 | 107 | 1010716 | 10.87 | PPBV | | 100 |
| 75) OCTANE | 9.627 | 43 | 2479149 | 12.74 | PPBV | # | 64 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.733 | 131 | 859532 | 11.64 | PPBV | # | 87 |
| 78) CHLOROBENZENE | 10.724 | 112 | 1517814 | 10.93 | PPBV | | 95 |
| 79) ETHYLBENZENE | 11.618 | 91 | 2592875 | 11.38 | PPBV | | 96 |
| 80) M,P-XYLENE | 12.055 | 91 | 4176681 | 24.04 | PPBV | # | 67 |
| 81) O-XYLENE | 13.003 | 91 | 2131693 | 12.13 | PPBV | | 93 |
| 82) STYRENE | 12.785 | 104 | 1437975 | 11.24 | PPBV | | 94 |
| 83) NONANE | 14.126 | 43 | 2649300 | 13.14 | PPBV | # | 66 |
| 84) BROMOFORM | 11.872 | 173 | 1117341 | 12.63 | PPBV | # | 96 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 13.016 | 83 | 1513301 | 12.21 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.306 | 75 | 1157813 | 12.20 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.537 | 120 | 778214 | 11.80 | PPBV | # | 71 |
| 89) BROMOBENZENE | 14.408 | 77 | 1351409 | 11.22 | PPBV | | 90 |
| 90) 2-CHLOROTOLUENE | 15.550 | 126 | 653935 | 11.62 | PPBV | | 98 |
| 91) N-PROPYLBENZENE | 15.891 | 120 | 784703 | 12.03 | PPBV | | 98 |
| 92) 4-ETHYLTOLUENE | 16.212 | 105 | 3019773 | 12.43 | PPBV | | 97 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.360 | 105 | 2574403 | 12.68 | PPBV | # | 94 |
| 94) ALPHA-METHYLSTYRENE | 16.553 | 118 | 1212427 | 12.18 | PPBV | | 97 |
| 95) TERT-BUTYLBENZENE | 16.810 | 134 | 528801 | 11.92 | PPBV | | 71 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w59300.D
Acq On : 14 May 2022 5:05 pm
Operator : thomash
Sample : bsd
Misc : MS58854,V2w2637,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 17:53:16 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration

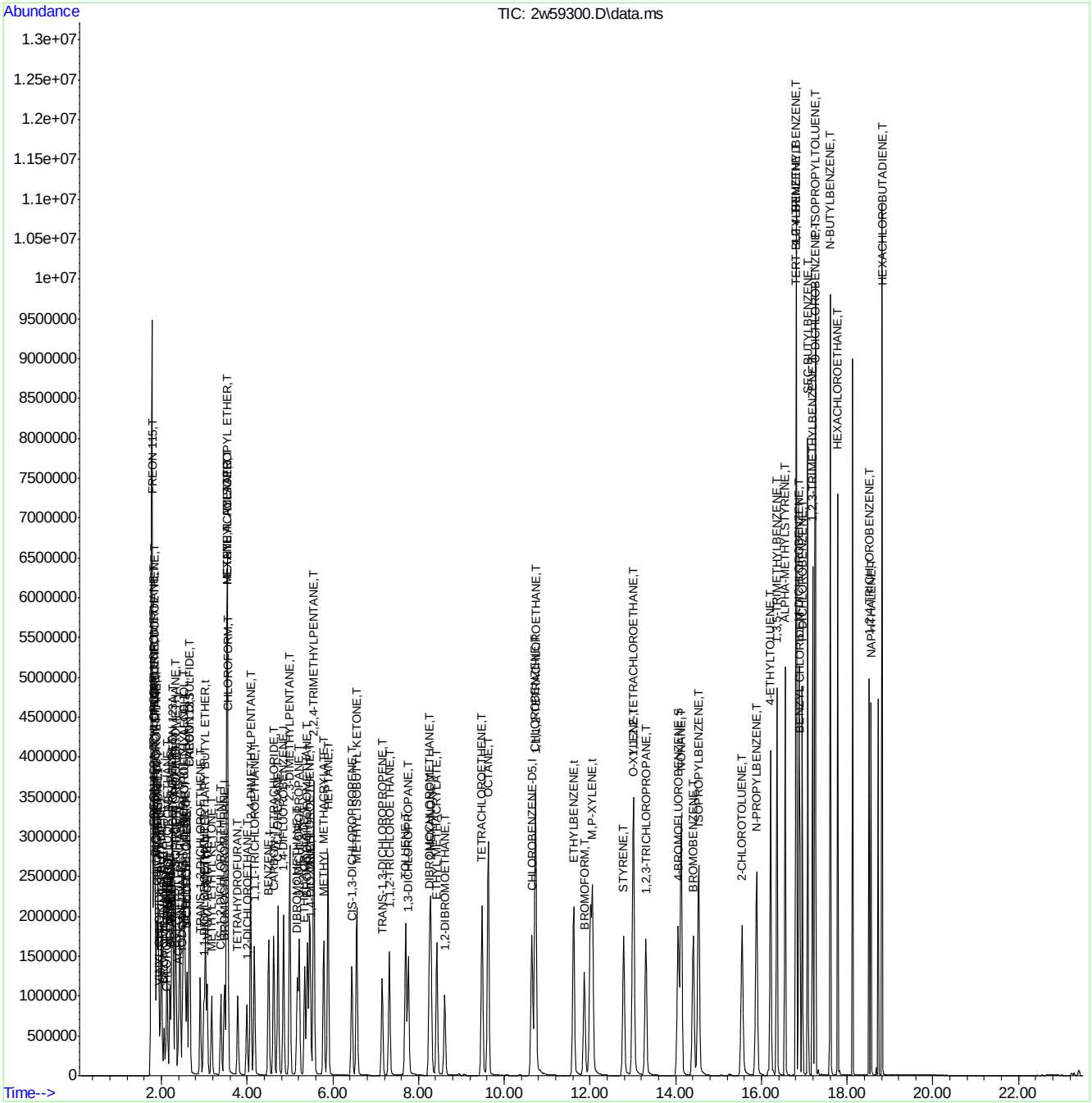
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 96) 1,2,4-TRIMETHYLBENZENE | 16.817 | 105 | 2554769 | 12.96 | PPBV | | 94 |
| 97) BENZYL CHLORIDE | 16.894 | 91 | 1683144 | 10.77 | PPBV | # | 93 |
| 98) M-DICHLOROBENZENE | 16.875 | 146 | 1338243 | 12.24 | PPBV | | 96 |
| 99) P-DICHLOROBENZENE | 16.955 | 146 | 1267415 | 11.76 | PPBV | | 96 |
| 100) O-DICHLOROBENZENE | 17.248 | 146 | 1286742 | 12.61 | PPBV | | 95 |
| 101) SEC-BUTYLBENZENE | 17.080 | 134 | 646687 | 12.14 | PPBV | | 70 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.193 | 105 | 2419748 | 12.76 | PPBV | # | 94 |
| 103) P-ISOPROPYLTOLUENE | 17.257 | 134 | 686137 | 12.32 | PPBV | | 73 |
| 104) N-BUTYLBENZENE | 17.601 | 134 | 619328 | 12.24 | PPBV | # | 64 |
| 105) HEXACHLOROETHANE | 17.778 | 117 | 954760 | 12.26 | PPBV | # | 88 |
| 106) HEXACHLOROBUTADIENE | 18.817 | 225 | 913305 | 13.62 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.511 | 180 | 743640 | 10.37 | PPBV | | 98 |
| 108) NAPHTHALENE | 18.556 | 128 | 1849171 | 11.04 | PPBV | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w59300.D
Acq On : 14 May 2022 5:05 pm
Operator : thomash
Sample : bsd
Misc : MS58854,V2w2637,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 17:53:16 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61025.D
Acq On : 24 Aug 2022 8:49 pm
Operator : thomash
Sample : bs
Misc : MS61038,V2w2710,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 08:04:07 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.615 | 128 | 74166 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 390179 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 358568 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.959 | 95 | 237144 | 9.93 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 3) FREON 152A | 1.853 | 65 | 62391 | 10.01 | PPBV | # 100 |
| 4) CHLORODIFLUOROMETHANE | 1.869 | 67 | 27982 | 10.10 | PPBV | 100 |
| 5) CHLOROTRIFLUOROETHENE | 1.882 | 116 | 166692 | 10.40 | PPBV | # 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.904 | 85 | 371220 | 10.06 | PPBV | 100 |
| 7) PROPYLENE | 1.879 | 41 | 64658 | 9.28 | PPBV | 100 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.956 | 65 | 272123 | 9.80 | PPBV | 100 |
| 9) FREON 114 | 2.001 | 85 | 332123 | 9.99 | PPBV | 99 |
| 10) CHLOROMETHANE | 1.962 | 52 | 33291 | 8.96 | PPBV | 97 |
| 11) VINYL CHLORIDE | 2.043 | 62 | 126943 | 9.83 | PPBV | 100 |
| 12) 1,3-BUTADIENE | 2.094 | 54 | 95657 | 9.60 | PPBV | 99 |
| 13) N-BUTANE | 2.117 | 43 | 155859 | 8.98 | PPBV | 99 |
| 14) BROMOMETHANE | 2.194 | 94 | 115747 | 9.93 | PPBV | 100 |
| 15) CHLOROETHANE | 2.258 | 64 | 69100 | 10.01 | PPBV | 97 |
| 16) DICHLOROFLUOROMETHANE | 2.290 | 67 | 270577 | 9.85 | PPBV | 99 |
| 17) ACETONITRILE | 2.377 | 41 | 94187 | 9.13 | PPBV | 100 |
| 18) ACROLEIN | 2.422 | 56 | 54093 | 11.88 | PPBV | 97 |
| 19) FREON 123 | 2.438 | 83 | 306626 | 10.04 | PPBV | 99 |
| 20) FREON 123A | 2.457 | 117 | 178940 | 10.13 | PPBV | 95 |
| 21) TRICHLOROFLUOROMETHANE | 2.525 | 101 | 388913 | 10.13 | PPBV | 100 |
| 22) ISOPROPYL ALCOHOL | 2.538 | 45 | 271126 | 8.85 | PPBV | 98 |
| 23) ACETONE | 2.467 | 58 | 77835 | 7.96 | PPBV | 94 |
| 24) PENTANE | 2.634 | 42 | 146457 | 8.72 | PPBV | 100 |
| 25) IODOMETHANE | 2.689 | 142 | 377937 | 10.07 | PPBV | 99 |
| 26) 1,1-DICHLOROETHYLENE | 2.715 | 96 | 144528 | 9.81 | PPBV | 96 |
| 27) CARBON DISULFIDE | 2.846 | 76 | 441017 | 9.94 | PPBV | 99 |
| 28) ETHANOL | 2.297 | 45 | 47348 | 7.85 | PPBV | 99 |
| 29) BROMOETHENE | 2.387 | 106 | 123928 | 10.41 | PPBV | 99 |
| 30) ACRYLONITRILE | 2.605 | 52 | 108478 | 9.37 | PPBV | 98 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 134121 | 8.20 | PPBV | 95 |
| 32) 3-CHLOROPROPENE | 2.792 | 76 | 72410 | 9.58 | PPBV | 92 |
| 33) FREON 113 | 2.846 | 151 | 249933 | 10.06 | PPBV | 99 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 125101 | 10.19 | PPBV | 96 |
| 35) TERTIARY BUTYL ALCOHOL | 2.724 | 59 | 368279 | 9.54 | PPBV | 97 |
| 36) METHYL TERTIARY BUTYL ... | 3.191 | 73 | 320991 | 10.10 | PPBV | 100 |
| 37) TETRAHYDROFURAN | 3.904 | 72 | 56483 | 10.54 | PPBV | 95 |
| 38) HEXANE | 3.666 | 57 | 203552 | 9.50 | PPBV | 100 |
| 39) VINYL ACETATE | 3.229 | 86 | 32949 | 10.91 | PPBV | 89 |
| 40) 1,1-DICHLOROETHANE | 3.158 | 63 | 215370 | 9.81 | PPBV | 99 |
| 41) METHYL ETHYL KETONE | 3.332 | 72 | 58290 | 10.67 | PPBV | 92 |
| 42) CIS-1,2-DICHLOROETHENE | 3.535 | 96 | 132735 | 10.08 | PPBV | 97 |
| 43) DIISOPROPYL ETHER | 3.670 | 59 | 60949 | 9.71 | PPBV | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61025.D
Acq On : 24 Aug 2022 8:49 pm
Operator : thomash
Sample : bs
Misc : MS61038,V2w2710,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 08:04:07 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.673 | 61 | 43052 | 9.80 | PPBV | | 95 |
| 45) METHYL ACRYLATE | 3.660 | 55 | 247367 | 9.82 | PPBV | # | 99 |
| 46) CHLOROFORM | 3.689 | 83 | 264457 | 9.85 | PPBV | | 99 |
| 47) 2,4-DIMETHYLPENTANE | 4.197 | 57 | 236475 | 9.47 | PPBV | | 99 |
| 48) 1,1,1-TRICHLOROETHANE | 4.277 | 97 | 271193 | 10.13 | PPBV | | 99 |
| 49) CARBON TETRACHLORIDE | 4.711 | 117 | 278335 | 10.49 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 4.110 | 62 | 176035 | 9.68 | PPBV | | 99 |
| 51) BENZENE | 4.599 | 78 | 377463 | 9.85 | PPBV | | 98 |
| 53) CYCLOHEXANE | 4.814 | 84 | 166713 | 10.13 | PPBV | | 96 |
| 54) 2,3-DIMETHYLPENTANE | 5.075 | 71 | 82617 | 10.22 | PPBV | | 95 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 177145 | 10.71 | PPBV | | 98 |
| 56) 1,2-DICHLOROPROPANE | 5.281 | 63 | 145861 | 9.79 | PPBV | | 98 |
| 57) DIBROMOMETHANE | 5.239 | 174 | 172950 | 10.16 | PPBV | | 98 |
| 58) ETHYL ACRYLATE | 5.396 | 55 | 294420 | 10.52 | PPBV | | 100 |
| 59) BROMODICHLOROMETHANE | 5.464 | 83 | 287695 | 10.54 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.612 | 57 | 627790 | 9.52 | PPBV | | 100 |
| 61) 1,4-DIOXANE | 5.525 | 88 | 82257 | 10.29 | PPBV | | 97 |
| 62) HEPTANE | 5.933 | 43 | 195929 | 9.44 | PPBV | | 98 |
| 63) METHYL METHACRYLATE | 5.827 | 69 | 137690 | 10.83 | PPBV | | 97 |
| 64) METHYL ISOBUTYL KETONE | 6.567 | 58 | 115769 | 10.91 | PPBV | | 99 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.470 | 75 | 214800 | 10.88 | PPBV | | 98 |
| 66) TOLUENE | 7.698 | 91 | 478145 | 10.17 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.753 | 76 | 229632 | 10.27 | PPBV | | 100 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.155 | 75 | 195553 | 11.05 | PPBV | | 99 |
| 69) 1,1,2-TRICHLOROETHANE | 7.322 | 83 | 140658 | 10.21 | PPBV | | 100 |
| 70) 2-HEXANONE | 8.261 | 58 | 141032 | 9.54 | PPBV | | 100 |
| 71) ETHYL METHACRYLATE | 8.399 | 69 | 215764 | 11.64 | PPBV | | 98 |
| 72) TETRACHLOROETHENE | 9.448 | 164 | 194068 | 10.30 | PPBV | | 100 |
| 73) DIBROMOCHLOROMETHANE | 8.239 | 129 | 304197 | 11.33 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.586 | 107 | 268705 | 10.71 | PPBV | | 99 |
| 75) OCTANE | 9.586 | 43 | 267014 | 9.58 | PPBV | | 98 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.673 | 131 | 209101 | 10.77 | PPBV | | 99 |
| 78) CHLOROBENZENE | 10.663 | 112 | 396416 | 10.29 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.547 | 91 | 637591 | 10.38 | PPBV | | 99 |
| 80) M,P-XYLENE | 11.978 | 91 | 973898 | 20.84 | PPBV | | 97 |
| 81) O-XYLENE | 12.917 | 91 | 491587 | 10.29 | PPBV | | 97 |
| 82) STYRENE | 12.701 | 104 | 378799 | 11.08 | PPBV | | 100 |
| 83) NONANE | 14.033 | 43 | 282237 | 9.57 | PPBV | | 99 |
| 84) BROMOFORM | 11.791 | 173 | 288235 | 11.67 | PPBV | | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.923 | 83 | 365630 | 10.29 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.209 | 75 | 266360 | 10.22 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.431 | 120 | 217595 | 10.75 | PPBV | | 100 |
| 89) BROMOBENZENE | 14.306 | 77 | 336210 | 10.17 | PPBV | | 98 |
| 90) 2-CHLOROTOLUENE | 15.444 | 126 | 179852 | 10.57 | PPBV | | 100 |
| 91) N-PROPYLBENZENE | 15.772 | 120 | 202090 | 10.86 | PPBV | | 99 |
| 92) 4-ETHYLTOLUENE | 16.148 | 105 | 737255 | 10.76 | PPBV | | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.303 | 105 | 606069 | 10.60 | PPBV | | 100 |
| 94) ALPHA-METHYLSTYRENE | 16.502 | 118 | 257520 | 10.70 | PPBV | | 100 |
| 95) TERT-BUTYLBENZENE | 16.759 | 134 | 154064 | 10.53 | PPBV | | 99 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.766 | 105 | 637532 | 10.43 | PPBV | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61025.D
Acq On : 24 Aug 2022 8:49 pm
Operator : thomash
Sample : bs
Misc : MS61038,V2w2710,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 08:04:07 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

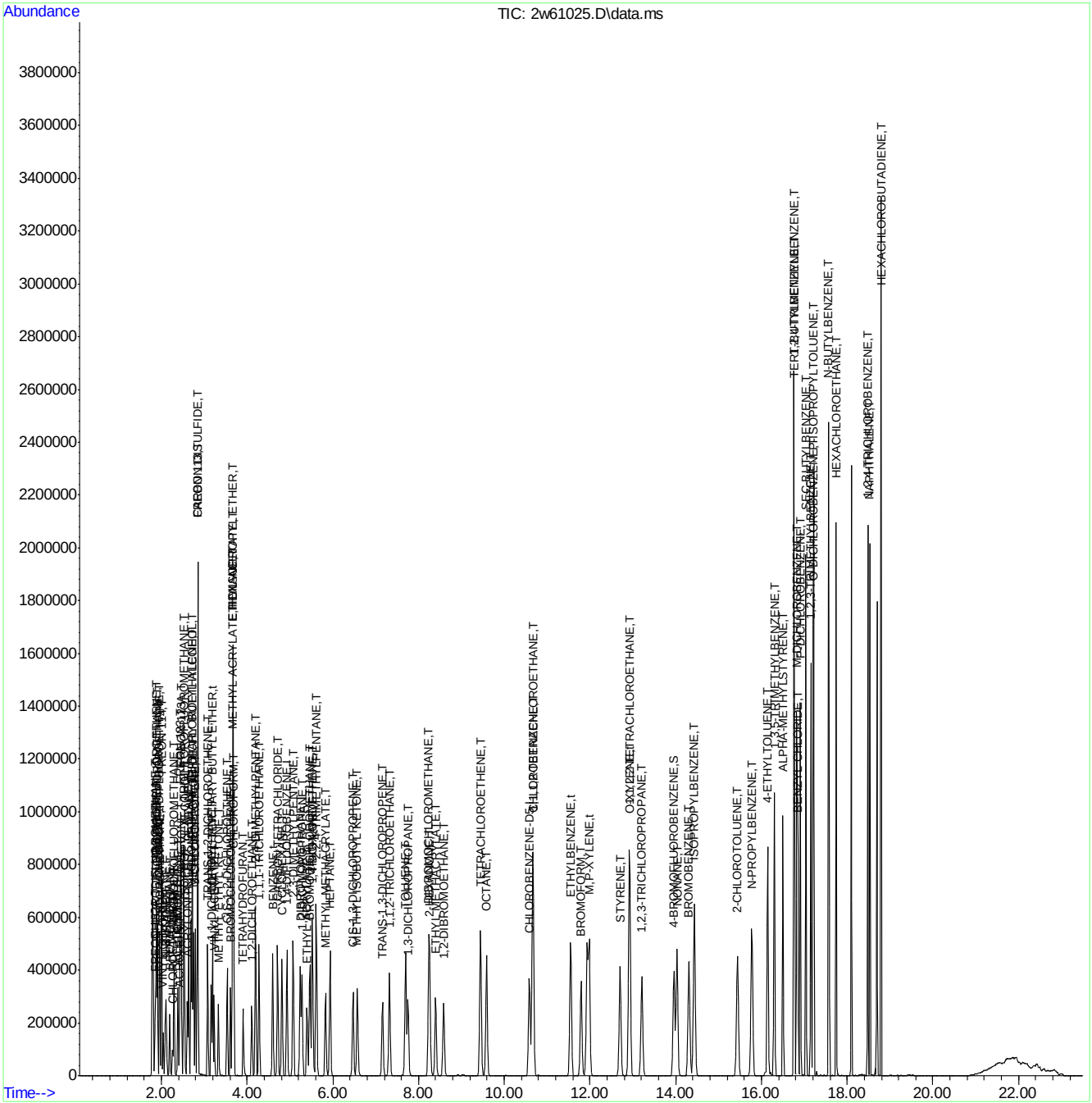
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.849 | 91 | 418667 | 11.06 | PPBV | 99 |
| 98) | M-DICHLOROBENZENE | 16.827 | 146 | 425848 | 10.60 | PPBV | 99 |
| 99) | P-DICHLOROBENZENE | 16.907 | 146 | 428869 | 10.53 | PPBV | 100 |
| 100) | O-DICHLOROBENZENE | 17.203 | 146 | 407471 | 10.30 | PPBV | 99 |
| 101) | SEC-BUTYLBENZENE | 17.039 | 134 | 189286 | 10.41 | PPBV | 98 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 612137 | 10.59 | PPBV | 100 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 206978 | 10.33 | PPBV | 99 |
| 104) | N-BUTYLBENZENE | 17.566 | 134 | 195515 | 10.55 | PPBV | 97 |
| 105) | HEXACHLOROETHANE | 17.743 | 117 | 233962 | 10.31 | PPBV | 99 |
| 106) | HEXACHLOROBUTADIENE | 18.791 | 225 | 295182 | 9.51 | PPBV | 100 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.483 | 180 | 343017 | 10.47 | PPBV | 99 |
| 108) | NAPHTHALENE | 18.528 | 128 | 857103 | 10.24 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61025.D
Acq On : 24 Aug 2022 8:49 pm
Operator : thomash
Sample : bs
Misc : MS61038,V2w2710,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 08:04:07 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61026.D
Acq On : 24 Aug 2022 9:22 pm
Operator : thomash
Sample : bsd
Misc : MS61038,V2w2710,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 08:04:21 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.615 | 128 | 75491 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 403267 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 366769 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.965 | 95 | 243390 | 9.97 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 3) FREON 152A | 1.847 | 65 | 61030 | 9.62 | PPBV | # 100 |
| 4) CHLORODIFLUOROMETHANE | 1.863 | 67 | 27761 | 9.85 | PPBV | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.875 | 116 | 166480 | 10.21 | PPBV | # 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.898 | 85 | 370200 | 9.86 | PPBV | 100 |
| 7) PROPYLENE | 1.875 | 41 | 63307 | 8.93 | PPBV | 98 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.949 | 65 | 274093 | 9.69 | PPBV | 100 |
| 9) FREON 114 | 1.994 | 85 | 332192 | 9.82 | PPBV | 98 |
| 10) CHLOROMETHANE | 1.956 | 52 | 34188 | 9.04 | PPBV | 97 |
| 11) VINYL CHLORIDE | 2.039 | 62 | 126105 | 9.60 | PPBV | 99 |
| 12) 1,3-BUTADIENE | 2.088 | 54 | 95202 | 9.38 | PPBV | 99 |
| 13) N-BUTANE | 2.110 | 43 | 155372 | 8.79 | PPBV | 99 |
| 14) BROMOMETHANE | 2.187 | 94 | 116770 | 9.84 | PPBV | 99 |
| 15) CHLOROETHANE | 2.252 | 64 | 69062 | 9.83 | PPBV | 96 |
| 16) DICHLOROFLUOROMETHANE | 2.284 | 67 | 270657 | 9.68 | PPBV | 99 |
| 17) ACETONITRILE | 2.371 | 41 | 91792 | 8.74 | PPBV | 99 |
| 18) ACROLEIN | 2.419 | 56 | 52978 | 11.43 | PPBV | 99 |
| 19) FREON 123 | 2.435 | 83 | 303160 | 9.76 | PPBV | 99 |
| 20) FREON 123A | 2.454 | 117 | 175962 | 9.79 | PPBV | 96 |
| 21) TRICHLOROFLUOROMETHANE | 2.522 | 101 | 383997 | 9.83 | PPBV | 99 |
| 22) ISOPROPYL ALCOHOL | 2.535 | 45 | 264514 | 8.48 | PPBV | 99 |
| 23) ACETONE | 2.461 | 58 | 75122 | 7.55 | PPBV | 97 |
| 24) PENTANE | 2.631 | 42 | 145917 | 8.54 | PPBV | 100 |
| 25) IODOMETHANE | 2.689 | 142 | 383055 | 10.03 | PPBV | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.715 | 96 | 148573 | 9.91 | PPBV | 93 |
| 27) CARBON DISULFIDE | 2.846 | 76 | 440720 | 9.76 | PPBV | 99 |
| 28) ETHANOL | 2.290 | 45 | 45783 | 7.46 | PPBV | 99 |
| 29) BROMOETHENE | 2.383 | 106 | 123757 | 10.21 | PPBV | 100 |
| 30) ACRYLONITRILE | 2.602 | 52 | 107484 | 9.12 | PPBV | 99 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 135420 | 8.13 | PPBV | 93 |
| 32) 3-CHLOROPROPENE | 2.792 | 76 | 72315 | 9.40 | PPBV | 91 |
| 33) FREON 113 | 2.846 | 151 | 250413 | 9.91 | PPBV | 99 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 124961 | 10.00 | PPBV | 97 |
| 35) TERTIARY BUTYL ALCOHOL | 2.721 | 59 | 368023 | 9.36 | PPBV | 97 |
| 36) METHYL TERTIARY BUTYL ... | 3.191 | 73 | 320744 | 9.91 | PPBV | 100 |
| 37) TETRAHYDROFURAN | 3.904 | 72 | 57212 | 10.48 | PPBV | 96 |
| 38) HEXANE | 3.666 | 57 | 205408 | 9.42 | PPBV | 100 |
| 39) VINYL ACETATE | 3.232 | 86 | 33197 | 10.80 | PPBV | 86 |
| 40) 1,1-DICHLOROETHANE | 3.158 | 63 | 217544 | 9.73 | PPBV | 100 |
| 41) METHYL ETHYL KETONE | 3.329 | 72 | 58134 | 10.46 | PPBV | 90 |
| 42) CIS-1,2-DICHLOROETHENE | 3.535 | 96 | 132987 | 9.92 | PPBV | 97 |
| 43) DIISOPROPYL ETHER | 3.666 | 59 | 62461 | 9.78 | PPBV | 91 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61026.D
Acq On : 24 Aug 2022 9:22 pm
Operator : thomash
Sample : bsd
Misc : MS61038,V2w2710,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 08:04:21 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 44) | ETHYL ACETATE | 3.673 | 61 | 44028 | 9.85 | PPBV | | 90 |
| 45) | METHYL ACRYLATE | 3.660 | 55 | 250103 | 9.75 | PPBV | # | 99 |
| 46) | CHLOROFORM | 3.689 | 83 | 266669 | 9.76 | PPBV | | 99 |
| 47) | 2,4-DIMETHYLPENTANE | 4.197 | 57 | 235856 | 9.28 | PPBV | | 98 |
| 48) | 1,1,1-TRICHLOROETHANE | 4.277 | 97 | 273722 | 10.05 | PPBV | | 99 |
| 49) | CARBON TETRACHLORIDE | 4.715 | 117 | 279061 | 10.34 | PPBV | | 100 |
| 50) | 1,2-DICHLOROETHANE | 4.110 | 62 | 178315 | 9.64 | PPBV | | 99 |
| 51) | BENZENE | 4.599 | 78 | 378908 | 9.71 | PPBV | | 98 |
| 53) | CYCLOHEXANE | 4.814 | 84 | 167131 | 9.82 | PPBV | | 96 |
| 54) | 2,3-DIMETHYLPENTANE | 5.075 | 71 | 83271 | 9.96 | PPBV | | 94 |
| 55) | TRICHLOROETHENE | 5.518 | 95 | 178347 | 10.43 | PPBV | | 98 |
| 56) | 1,2-DICHLOROPROPANE | 5.284 | 63 | 147894 | 9.61 | PPBV | | 100 |
| 57) | DIBROMOMETHANE | 5.239 | 174 | 173973 | 9.89 | PPBV | | 98 |
| 58) | ETHYL ACRYLATE | 5.396 | 55 | 294960 | 10.20 | PPBV | | 100 |
| 59) | BROMODICHLOROMETHANE | 5.464 | 83 | 287336 | 10.18 | PPBV | | 99 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 630651 | 9.26 | PPBV | | 100 |
| 61) | 1,4-DIOXANE | 5.525 | 88 | 83703 | 10.13 | PPBV | | 97 |
| 62) | HEPTANE | 5.936 | 43 | 195536 | 9.12 | PPBV | | 98 |
| 63) | METHYL METHACRYLATE | 5.827 | 69 | 137650 | 10.47 | PPBV | | 98 |
| 64) | METHYL ISOBUTYL KETONE | 6.573 | 58 | 115069 | 10.49 | PPBV | | 98 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.473 | 75 | 214749 | 10.53 | PPBV | | 99 |
| 66) | TOLUENE | 7.702 | 91 | 485904 | 10.00 | PPBV | | 99 |
| 67) | 1,3-DICHLOROPROPANE | 7.759 | 76 | 229781 | 9.95 | PPBV | | 99 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.161 | 75 | 194815 | 10.65 | PPBV | | 99 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.322 | 83 | 141342 | 9.92 | PPBV | | 99 |
| 70) | 2-HEXANONE | 8.261 | 58 | 141276 | 9.25 | PPBV | | 100 |
| 71) | ETHYL METHACRYLATE | 8.403 | 69 | 217412 | 11.35 | PPBV | | 98 |
| 72) | TETRACHLOROETHENE | 9.451 | 164 | 195023 | 10.02 | PPBV | | 100 |
| 73) | DIBROMOCHLOROMETHANE | 8.239 | 129 | 304376 | 10.97 | PPBV | | 100 |
| 74) | 1,2-DIBROMOETHANE | 8.589 | 107 | 270072 | 10.41 | PPBV | | 99 |
| 75) | OCTANE | 9.589 | 43 | 267104 | 9.27 | PPBV | | 97 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.676 | 131 | 208893 | 10.52 | PPBV | | 99 |
| 78) | CHLOROBENZENE | 10.666 | 112 | 395517 | 10.03 | PPBV | | 99 |
| 79) | ETHYLBENZENE | 11.550 | 91 | 638915 | 10.17 | PPBV | | 100 |
| 80) | M,P-XYLENE | 11.984 | 91 | 971909 | 20.34 | PPBV | | 96 |
| 81) | O-XYLENE | 12.923 | 91 | 495952 | 10.15 | PPBV | | 97 |
| 82) | STYRENE | 12.705 | 104 | 377794 | 10.81 | PPBV | | 100 |
| 83) | NONANE | 14.033 | 43 | 283124 | 9.39 | PPBV | | 98 |
| 84) | BROMOFORM | 11.795 | 173 | 285840 | 11.31 | PPBV | | 100 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 12.930 | 83 | 363122 | 9.99 | PPBV | | 100 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.209 | 75 | 264282 | 9.91 | PPBV | # | 100 |
| 88) | ISOPROPYLBENZENE | 14.438 | 120 | 218862 | 10.57 | PPBV | | 98 |
| 89) | BROMOBENZENE | 14.309 | 77 | 335193 | 9.91 | PPBV | | 97 |
| 90) | 2-CHLOROTOLUENE | 15.441 | 126 | 178339 | 10.25 | PPBV | | 99 |
| 91) | N-PROPYLBENZENE | 15.782 | 120 | 201455 | 10.59 | PPBV | | 100 |
| 92) | 4-ETHYLTOLUENE | 16.148 | 105 | 729177 | 10.40 | PPBV | | 99 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.303 | 105 | 602740 | 10.30 | PPBV | | 100 |
| 94) | ALPHA-METHYLSTYRENE | 16.502 | 118 | 255431 | 10.38 | PPBV | | 100 |
| 95) | TERT-BUTYLBENZENE | 16.759 | 134 | 152779 | 10.21 | PPBV | | 100 |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.766 | 105 | 632230 | 10.11 | PPBV | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61026.D
Acq On : 24 Aug 2022 9:22 pm
Operator : thomash
Sample : bsd
Misc : MS61038,V2w2710,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 08:04:21 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

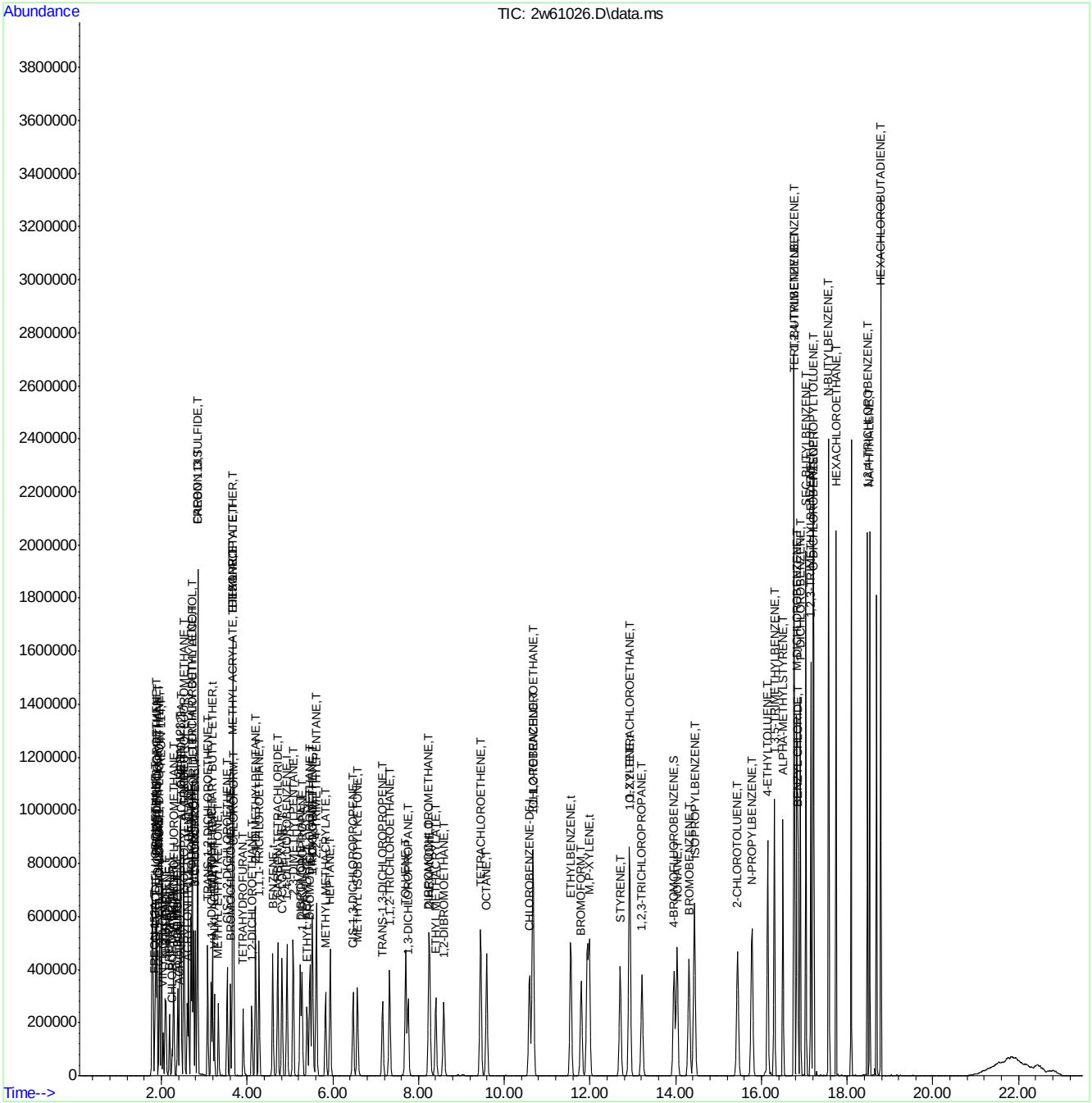
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 97) BENZYL CHLORIDE | 16.849 | 91 | 409652 | 10.58 | PPBV | 99 |
| 98) M-DICHLOROBENZENE | 16.827 | 146 | 424613 | 10.33 | PPBV | 99 |
| 99) P-DICHLOROBENZENE | 16.910 | 146 | 427439 | 10.26 | PPBV | 99 |
| 100) O-DICHLOROBENZENE | 17.203 | 146 | 404495 | 10.00 | PPBV | 99 |
| 101) SEC-BUTYLBENZENE | 17.039 | 134 | 187901 | 10.10 | PPBV | 98 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 609253 | 10.30 | PPBV | 100 |
| 103) P-ISOPROPYLTOLUENE | 17.219 | 134 | 206144 | 10.06 | PPBV | 100 |
| 104) N-BUTYLBENZENE | 17.563 | 134 | 195521 | 10.32 | PPBV | 96 |
| 105) HEXACHLOROETHANE | 17.743 | 117 | 232583 | 10.02 | PPBV | 99 |
| 106) HEXACHLOROBUTADIENE | 18.785 | 225 | 295405 | 9.30 | PPBV | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.476 | 180 | 348131 | 10.39 | PPBV | 99 |
| 108) NAPHTHALENE | 18.524 | 128 | 867551 | 10.13 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61026.D
Acq On : 24 Aug 2022 9:22 pm
Operator : thomash
Sample : bsd
Misc : MS61038,V2w2710,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 08:04:21 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/02/22 15:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61141.D
Acq On : 30 Aug 2022 10:20 am
Operator : williamc
Sample : bs
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:49:55 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.611 | 128 | 80060 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 427447 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 386452 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 259239 | 10.08 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 3) FREON 152A | 1.846 | 65 | 67270m | 10.00 | PPBV | |
| 4) CHLORODIFLUOROMETHANE | 1.862 | 67 | 28770 | 9.62 | PPBV | 98 |
| 5) CHLOROTRIFLUOROETHENE | 1.878 | 116 | 173017 | 10.00 | PPBV | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.897 | 85 | 394877 | 9.91 | PPBV | 100 |
| 7) PROPYLENE | 1.872 | 41 | 64816 | 8.62 | PPBV | 98 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.949 | 65 | 307757 | 10.26 | PPBV | 99 |
| 9) FREON 114 | 1.994 | 85 | 354540 | 9.88 | PPBV | 98 |
| 10) CHLOROMETHANE | 1.955 | 52 | 37694 | 9.40 | PPBV | 98 |
| 11) VINYL CHLORIDE | 2.039 | 62 | 146537 | 10.52 | PPBV | 99 |
| 12) 1,3-BUTADIENE | 2.090 | 54 | 109386 | 10.17 | PPBV | 98 |
| 13) N-BUTANE | 2.110 | 43 | 165482 | 8.83 | PPBV | 98 |
| 14) BROMOMETHANE | 2.190 | 94 | 123185 | 9.79 | PPBV | 100 |
| 15) CHLOROETHANE | 2.251 | 64 | 78266 | 10.50 | PPBV | 96 |
| 16) DICHLOROFLUOROMETHANE | 2.287 | 67 | 294281 | 9.92 | PPBV | 100 |
| 17) ACETONITRILE | 2.373 | 41 | 98564 | 8.85 | PPBV | 100 |
| 18) ACROLEIN | 2.418 | 56 | 59843 | 12.17 | PPBV | 97 |
| 19) FREON 123 | 2.434 | 83 | 327616 | 9.94 | PPBV | 100 |
| 20) FREON 123A | 2.454 | 117 | 193244 | 10.14 | PPBV | 97 |
| 21) TRICHLOROFLUOROMETHANE | 2.521 | 101 | 425154 | 10.26 | PPBV | 100 |
| 22) ISOPROPYL ALCOHOL | 2.537 | 45 | 306230 | 9.26 | PPBV | 98 |
| 23) ACETONE | 2.463 | 58 | 93440 | 8.86 | PPBV | 87 |
| 24) PENTANE | 2.631 | 42 | 176581 | 9.74 | PPBV | 100 |
| 25) IODOMETHANE | 2.688 | 142 | 392509 | 9.69 | PPBV | 96 |
| 26) 1,1-DICHLOROETHYLENE | 2.714 | 96 | 165536 | 10.41 | PPBV | 94 |
| 27) CARBON DISULFIDE | 2.846 | 76 | 495393 | 10.34 | PPBV | 98 |
| 28) ETHANOL | 2.290 | 45 | 49503 | 7.60 | PPBV | 99 |
| 29) BROMOETHENE | 2.383 | 106 | 131604 | 10.24 | PPBV | 100 |
| 30) ACRYLONITRILE | 2.605 | 52 | 130794 | 10.47 | PPBV | 98 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 153449 | 8.69 | PPBV | 98 |
| 32) 3-CHLOROPROPENE | 2.791 | 76 | 80099 | 9.81 | PPBV | 94 |
| 33) FREON 113 | 2.846 | 151 | 261678 | 9.76 | PPBV | 93 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 129847 | 9.80 | PPBV | 96 |
| 35) TERTIARY BUTYL ALCOHOL | 2.724 | 59 | 423392 | 10.16 | PPBV | 98 |
| 36) METHYL TERTIARY BUTYL ... | 3.190 | 73 | 312748 | 9.11 | PPBV | 100 |
| 37) TETRAHYDROFURAN | 3.907 | 72 | 58656 | 10.14 | PPBV | 99 |
| 38) HEXANE | 3.666 | 57 | 236907 | 10.24 | PPBV | 96 |
| 39) VINYL ACETATE | 3.232 | 86 | 31687 | 9.72 | PPBV | 98 |
| 40) 1,1-DICHLOROETHANE | 3.158 | 63 | 245530 | 10.36 | PPBV | 99 |
| 41) METHYL ETHYL KETONE | 3.328 | 72 | 59752 | 10.13 | PPBV | 96 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 138957 | 9.77 | PPBV | 96 |
| 43) DIISOPROPYL ETHER | 3.669 | 59 | 71453 | 10.55 | PPBV | 80 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61141.D
Acq On : 30 Aug 2022 10:20 am
Operator : williamc
Sample : bs
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:49:55 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.672 | 61 | 49745 | 10.49 | PPBV | | 80 |
| 45) METHYL ACRYLATE | 3.659 | 55 | 280430 | 10.31 | PPBV | # | 99 |
| 46) CHLOROFORM | 3.688 | 83 | 279650 | 9.65 | PPBV | | 100 |
| 47) 2,4-DIMETHYLPENTANE | 4.196 | 57 | 272486 | 10.11 | PPBV | | 98 |
| 48) 1,1,1-TRICHLOROETHANE | 4.277 | 97 | 276053 | 9.55 | PPBV | | 97 |
| 49) CARBON TETRACHLORIDE | 4.714 | 117 | 277569 | 9.69 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 4.106 | 62 | 201203 | 10.25 | PPBV | | 99 |
| 51) BENZENE | 4.598 | 78 | 393219 | 9.51 | PPBV | | 99 |
| 53) CYCLOHEXANE | 4.814 | 84 | 173011 | 9.59 | PPBV | | 94 |
| 54) 2,3-DIMETHYLPENTANE | 5.071 | 71 | 86850 | 9.80 | PPBV | | 92 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 184505 | 10.18 | PPBV | | 98 |
| 56) 1,2-DICHLOROPROPANE | 5.277 | 63 | 166785 | 10.22 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.235 | 174 | 168362 | 9.03 | PPBV | | 96 |
| 58) ETHYL ACRYLATE | 5.396 | 55 | 324727 | 10.59 | PPBV | | 99 |
| 59) BROMODICHLOROMETHANE | 5.460 | 83 | 300512 | 10.05 | PPBV | | 100 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.611 | 57 | 716933 | 9.93 | PPBV | | 100 |
| 61) 1,4-DIOXANE | 5.524 | 88 | 82561 | 9.43 | PPBV | | 96 |
| 62) HEPTANE | 5.933 | 43 | 207540 | 9.13 | PPBV | | 97 |
| 63) METHYL METHACRYLATE | 5.827 | 69 | 141770 | 10.18 | PPBV | | 100 |
| 64) METHYL ISOBUTYL KETONE | 6.569 | 58 | 131755 | 11.33 | PPBV | | 93 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.470 | 75 | 210409 | 9.73 | PPBV | | 98 |
| 66) TOLUENE | 7.695 | 91 | 500093 | 9.71 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.756 | 76 | 239630 | 9.79 | PPBV | | 99 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.161 | 75 | 181627 | 9.37 | PPBV | | 97 |
| 69) 1,1,2-TRICHLOROETHANE | 7.322 | 83 | 146096 | 9.68 | PPBV | | 100 |
| 70) 2-HEXANONE | 8.261 | 58 | 155492 | 9.60 | PPBV | | 92 |
| 71) ETHYL METHACRYLATE | 8.399 | 69 | 216533 | 10.66 | PPBV | | 99 |
| 72) TETRACHLOROETHENE | 9.447 | 164 | 190368 | 9.23 | PPBV | | 97 |
| 73) DIBROMOCHLOROMETHANE | 8.235 | 129 | 313406 | 10.66 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.585 | 107 | 276043 | 10.04 | PPBV | | 100 |
| 75) OCTANE | 9.585 | 43 | 284726 | 9.32 | PPBV | | 97 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.672 | 131 | 203183 | 9.71 | PPBV | | 99 |
| 78) CHLOROBENZENE | 10.659 | 112 | 407030 | 9.80 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.547 | 91 | 661357 | 9.99 | PPBV | | 100 |
| 80) M,P-XYLENE | 11.981 | 91 | 1013585 | 20.13 | PPBV | | 99 |
| 81) O-XYLENE | 12.916 | 91 | 516501 | 10.03 | PPBV | | 97 |
| 82) STYRENE | 12.701 | 104 | 391679 | 10.63 | PPBV | | 99 |
| 83) NONANE | 14.032 | 43 | 300180 | 9.44 | PPBV | | 93 |
| 84) BROMOFORM | 11.791 | 173 | 272273 | 10.22 | PPBV | | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.923 | 83 | 383316 | 10.01 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.209 | 75 | 275320 | 9.80 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.434 | 120 | 238291 | 10.92 | PPBV | | 98 |
| 89) BROMOBENZENE | 14.309 | 77 | 351056 | 9.86 | PPBV | | 97 |
| 90) 2-CHLOROTOLUENE | 15.440 | 126 | 184993 | 10.09 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.775 | 120 | 212137 | 10.58 | PPBV | | 99 |
| 92) 4-ETHYLTOLUENE | 16.144 | 105 | 765132 | 10.36 | PPBV | | 100 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.302 | 105 | 637994 | 10.35 | PPBV | | 100 |
| 94) ALPHA-METHYLSTYRENE | 16.501 | 118 | 255191 | 9.84 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.762 | 134 | 152344 | 9.66 | PPBV | | 87 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.768 | 105 | 677928 | 10.29 | PPBV | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61141.D
Acq On : 30 Aug 2022 10:20 am
Operator : williamc
Sample : bs
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:49:55 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

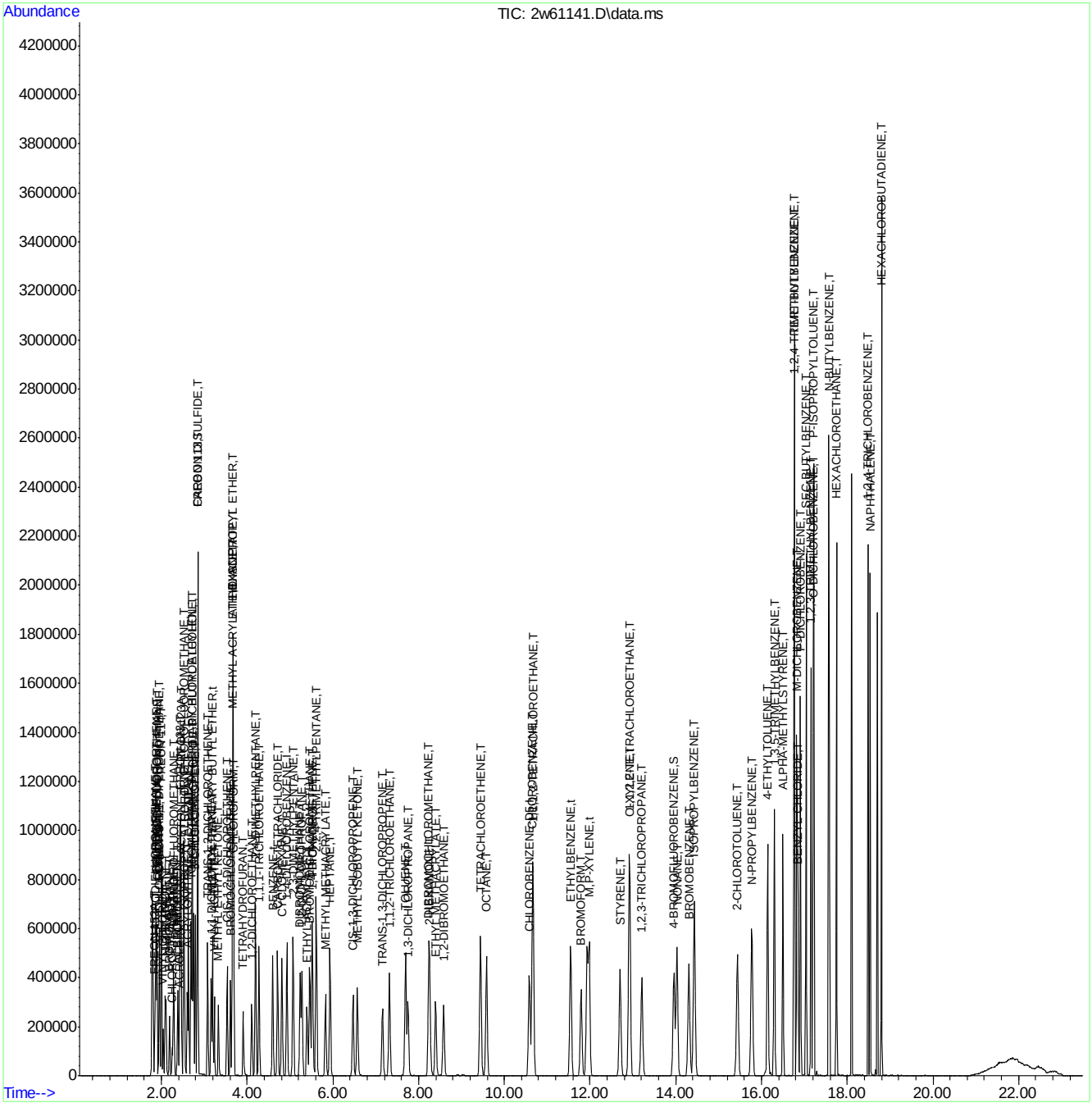
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.852 | 91 | 321528 | 7.88 | PPBV | 99 |
| 98) | M-DICHLOROBENZENE | 16.829 | 146 | 423920 | 9.79 | PPBV | 99 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 428872 | 9.77 | PPBV | 99 |
| 100) | O-DICHLOROBENZENE | 17.206 | 146 | 406223 | 9.53 | PPBV | 97 |
| 101) | SEC-BUTYLBENZENE | 17.042 | 134 | 188687 | 9.63 | PPBV | 90 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.154 | 105 | 643623 | 10.33 | PPBV | 99 |
| 103) | P-ISOPROPYLTOLUENE | 17.222 | 134 | 207114 | 9.59 | PPBV | 87 |
| 104) | N-BUTYLBENZENE | 17.569 | 134 | 194576 | 9.75 | PPBV | 92 |
| 105) | HEXACHLOROETHANE | 17.749 | 117 | 232507 | 9.50 | PPBV | 98 |
| 106) | HEXACHLOROBUTADIENE | 18.800 | 225 | 288731 | 8.63 | PPBV | 100 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.488 | 180 | 339725 | 9.62 | PPBV | 99 |
| 108) | NAPHTHALENE | 18.540 | 128 | 888716 | 9.85 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61141.D
Acq On : 30 Aug 2022 10:20 am
Operator : williamc
Sample : bs
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:49:55 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



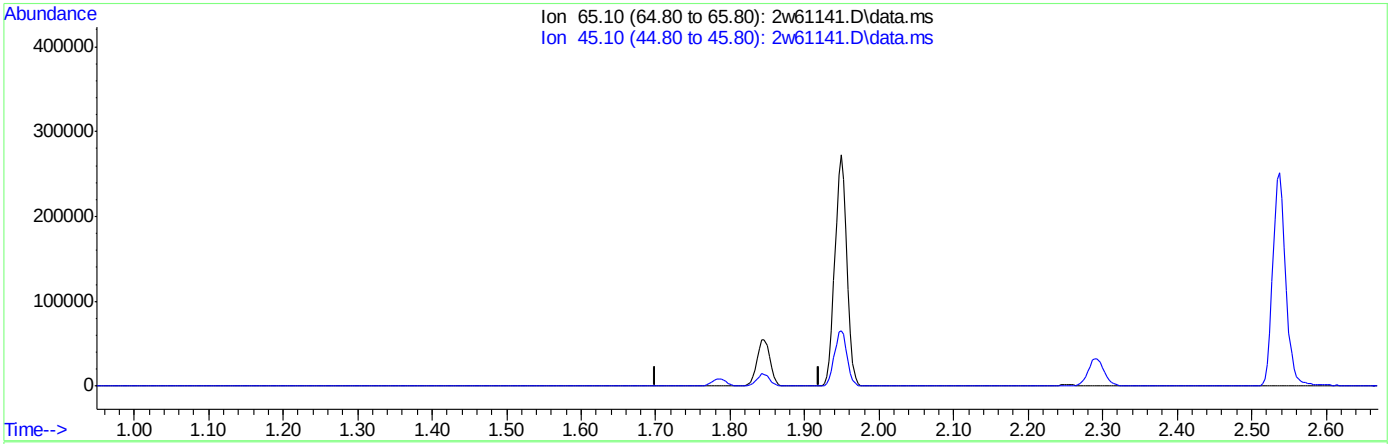
**Sample Number:** V2W2714-BS
**Lab FileID:** 2W61141.D
**Injection Time:** 08/30/22 10:20
**Method:** TO-15
**Analyst approved:** 09/02/22 09:44 William Cruser
**Supervisor approved:** 09/02/22 15:33 Kanya Veerawat

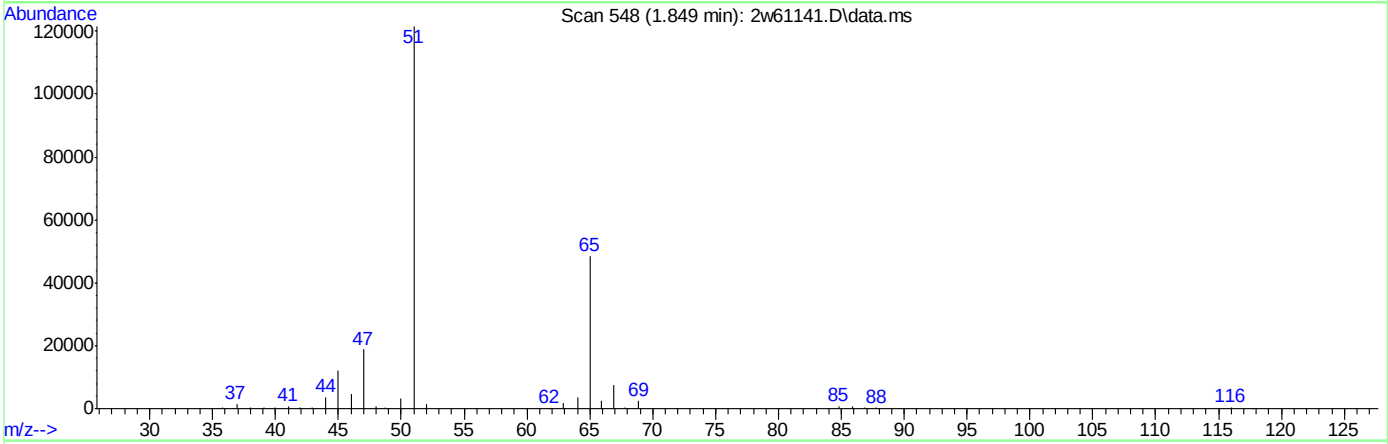
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.85 | Missed peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61141.D
Acq On : 30 Aug 2022 10:20 am
Operator : williamc
Sample : bs
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 30 10:52:49 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61141.D\data.ms

(3) FREON 152A (T)

1.850min (-1.850) 0.00PPBV

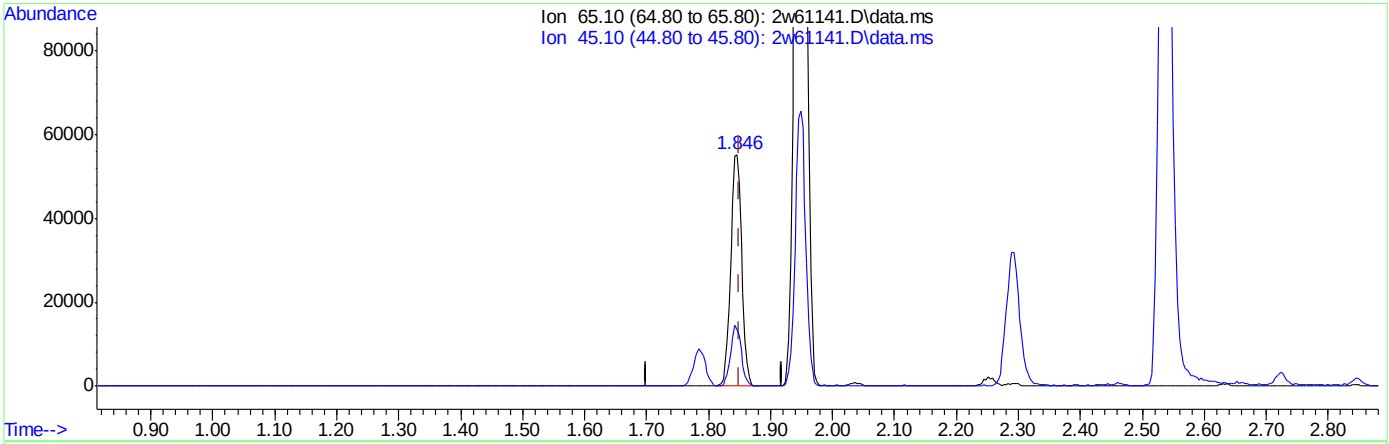
response 0

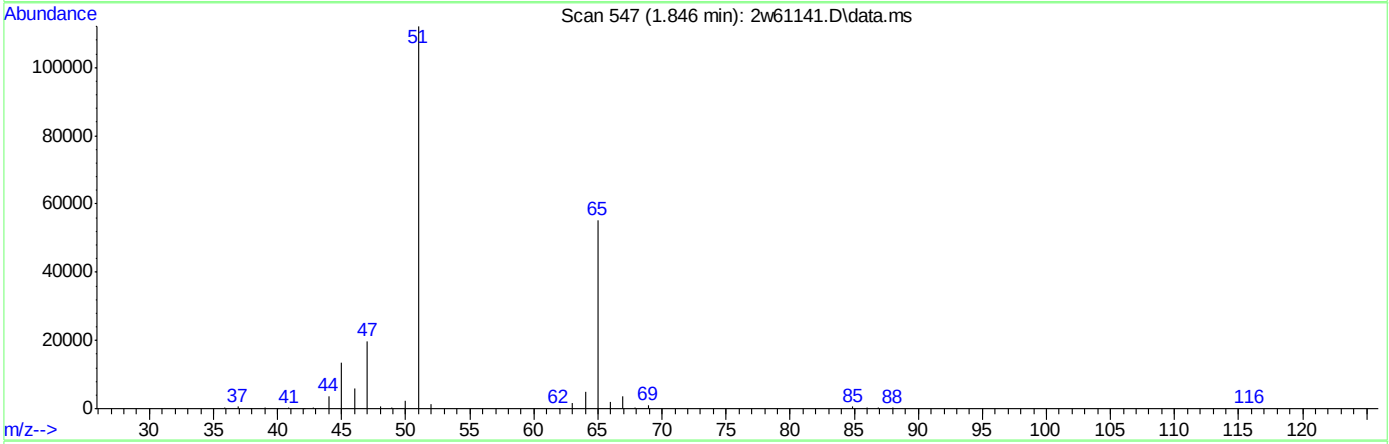
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 0.00 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61141.D
Acq On : 30 Aug 2022 10:20 am
Operator : williamc
Sample : bs
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 30 10:52:49 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61141.D\data.ms

(3) FREON 152A (T)

1.846min (-0.004) 10.00PPBV m

response 67270

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61142.D
Acq On : 30 Aug 2022 10:52 am
Operator : williamc
Sample : bsd
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 30 11:15:56 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.615 | 128 | 85118 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.933 | 114 | 444683 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.589 | 117 | 404229 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 265319 | 9.86 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 3) FREON 152A | 1.849 | 65 | 69578 | 9.72 | PPBV # | 100 |
| 4) CHLORODIFLUOROMETHANE | 1.869 | 67 | 29873 | 9.40 | PPBV | 98 |
| 5) CHLOROTRIFLUOROETHENE | 1.885 | 116 | 173227 | 9.42 | PPBV | 98 |
| 6) DICHLORODIFLUOROMETHANE | 1.904 | 85 | 402103 | 9.49 | PPBV | 99 |
| 7) PROPYLENE | 1.882 | 41 | 67335 | 8.42 | PPBV | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.956 | 65 | 316370 | 9.92 | PPBV | 99 |
| 9) FREON 114 | 2.001 | 85 | 363110 | 9.52 | PPBV | 98 |
| 10) CHLOROMETHANE | 1.962 | 52 | 38072 | 8.93 | PPBV | 100 |
| 11) VINYL CHLORIDE | 2.046 | 62 | 152589 | 10.30 | PPBV | 99 |
| 12) 1,3-BUTADIENE | 2.097 | 54 | 111103 | 9.71 | PPBV | 99 |
| 13) N-BUTANE | 2.116 | 43 | 170722 | 8.57 | PPBV | 98 |
| 14) BROMOMETHANE | 2.193 | 94 | 126729 | 9.47 | PPBV | 98 |
| 15) CHLOROETHANE | 2.261 | 64 | 81826 | 10.33 | PPBV | 96 |
| 16) DICHLOROFLUOROMETHANE | 2.293 | 67 | 299720 | 9.51 | PPBV | 99 |
| 17) ACETONITRILE | 2.380 | 41 | 104386 | 8.81 | PPBV | 99 |
| 18) ACROLEIN | 2.425 | 56 | 63001 | 12.05 | PPBV | 97 |
| 19) FREON 123 | 2.441 | 83 | 335935 | 9.59 | PPBV | 99 |
| 20) FREON 123A | 2.460 | 117 | 198834 | 9.81 | PPBV | 97 |
| 21) TRICHLOROFLUOROMETHANE | 2.525 | 101 | 433507 | 9.84 | PPBV | 99 |
| 22) ISOPROPYL ALCOHOL | 2.541 | 45 | 320429 | 9.11 | PPBV | 99 |
| 23) ACETONE | 2.467 | 58 | 95459 | 8.51 | PPBV | 89 |
| 24) PENTANE | 2.637 | 42 | 184926 | 9.60 | PPBV | 99 |
| 25) IODOMETHANE | 2.692 | 142 | 402211 | 9.34 | PPBV | 96 |
| 26) 1,1-DICHLOROETHYLENE | 2.718 | 96 | 169219 | 10.01 | PPBV | 93 |
| 27) CARBON DISULFIDE | 2.849 | 76 | 504804 | 9.91 | PPBV | 98 |
| 28) ETHANOL | 2.300 | 45 | 51854 | 7.49 | PPBV | 100 |
| 29) BROMOETHENE | 2.390 | 106 | 135267 | 9.90 | PPBV | 99 |
| 30) ACRYLONITRILE | 2.608 | 52 | 136889 | 10.30 | PPBV | 98 |
| 31) METHYLENE CHLORIDE | 2.753 | 84 | 155840 | 8.30 | PPBV | 96 |
| 32) 3-CHLOROPROPENE | 2.795 | 76 | 81726 | 9.42 | PPBV | 91 |
| 33) FREON 113 | 2.846 | 151 | 266325 | 9.34 | PPBV | 93 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.084 | 96 | 132796 | 9.43 | PPBV | 94 |
| 35) TERTIARY BUTYL ALCOHOL | 2.727 | 59 | 438729 | 9.90 | PPBV | 97 |
| 36) METHYL TERTIARY BUTYL ... | 3.193 | 73 | 321983 | 8.83 | PPBV | 99 |
| 37) TETRAHYDROFURAN | 3.907 | 72 | 61302 | 9.96 | PPBV | 99 |
| 38) HEXANE | 3.669 | 57 | 245625 | 9.99 | PPBV | 96 |
| 39) VINYL ACETATE | 3.232 | 86 | 33787 | 9.75 | PPBV | 97 |
| 40) 1,1-DICHLOROETHANE | 3.161 | 63 | 252887 | 10.03 | PPBV | 99 |
| 41) METHYL ETHYL KETONE | 3.332 | 72 | 61135 | 9.75 | PPBV | 99 |
| 42) CIS-1,2-DICHLOROETHENE | 3.537 | 96 | 141325 | 9.35 | PPBV | 96 |
| 43) DIISOPROPYL ETHER | 3.672 | 59 | 73371 | 10.19 | PPBV | 81 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61142.D
Acq On : 30 Aug 2022 10:52 am
Operator : williamc
Sample : bsd
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 30 11:15:56 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 44) | ETHYL ACETATE | 3.676 | 61 | 50773 | 10.07 | PPBV | | 85 |
| 45) | METHYL ACRYLATE | 3.663 | 55 | 293012 | 10.13 | PPBV | # | 99 |
| 46) | CHLOROFORM | 3.692 | 83 | 291260 | 9.45 | PPBV | | 99 |
| 47) | 2,4-DIMETHYLPENTANE | 4.200 | 57 | 282986 | 9.87 | PPBV | | 99 |
| 48) | 1,1,1-TRICHLOROETHANE | 4.280 | 97 | 289408 | 9.42 | PPBV | | 98 |
| 49) | CARBON TETRACHLORIDE | 4.714 | 117 | 287710 | 9.45 | PPBV | | 100 |
| 50) | 1,2-DICHLOROETHANE | 4.113 | 62 | 207171 | 9.93 | PPBV | | 99 |
| 51) | BENZENE | 4.602 | 78 | 407391 | 9.26 | PPBV | | 98 |
| 53) | CYCLOHEXANE | 4.814 | 84 | 179085 | 9.54 | PPBV | | 95 |
| 54) | 2,3-DIMETHYLPENTANE | 5.074 | 71 | 89537 | 9.72 | PPBV | | 89 |
| 55) | TRICHLOROETHENE | 5.521 | 95 | 191781 | 10.18 | PPBV | | 98 |
| 56) | 1,2-DICHLOROPROPANE | 5.283 | 63 | 172284 | 10.15 | PPBV | | 97 |
| 57) | DIBROMOMETHANE | 5.245 | 174 | 175005 | 9.02 | PPBV | | 97 |
| 58) | ETHYL ACRYLATE | 5.399 | 55 | 340945 | 10.69 | PPBV | | 99 |
| 59) | BROMODICHLOROMETHANE | 5.467 | 83 | 312642 | 10.05 | PPBV | | 99 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.618 | 57 | 745239 | 9.92 | PPBV | | 100 |
| 61) | 1,4-DIOXANE | 5.531 | 88 | 88130 | 9.68 | PPBV | | 97 |
| 62) | HEPTANE | 5.936 | 43 | 216494 | 9.15 | PPBV | | 97 |
| 63) | METHYL METHACRYLATE | 5.833 | 69 | 145836 | 10.06 | PPBV | | 98 |
| 64) | METHYL ISOBUTYL KETONE | 6.573 | 58 | 138427 | 11.44 | PPBV | | 92 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.476 | 75 | 218088 | 9.70 | PPBV | | 98 |
| 66) | TOLUENE | 7.701 | 91 | 518681 | 9.68 | PPBV | | 98 |
| 67) | 1,3-DICHLOROPROPANE | 7.762 | 76 | 247283 | 9.71 | PPBV | | 98 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.164 | 75 | 189643 | 9.41 | PPBV | | 97 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.325 | 83 | 152973 | 9.74 | PPBV | | 99 |
| 70) | 2-HEXANONE | 8.264 | 58 | 160983 | 9.55 | PPBV | | 95 |
| 71) | ETHYL METHACRYLATE | 8.402 | 69 | 227100 | 10.75 | PPBV | | 99 |
| 72) | TETRACHLOROETHENE | 9.447 | 164 | 196892 | 9.17 | PPBV | | 97 |
| 73) | DIBROMOCHLOROMETHANE | 8.245 | 129 | 324196 | 10.60 | PPBV | | 99 |
| 74) | 1,2-DIBROMOETHANE | 8.589 | 107 | 286980 | 10.03 | PPBV | | 99 |
| 75) | OCTANE | 9.592 | 43 | 295370 | 9.30 | PPBV | | 97 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.675 | 131 | 209181 | 9.55 | PPBV | | 98 |
| 78) | CHLOROBENZENE | 10.666 | 112 | 421461 | 9.70 | PPBV | | 99 |
| 79) | ETHYLBENZENE | 11.550 | 91 | 681212 | 9.84 | PPBV | | 100 |
| 80) | M,P-XYLENE | 11.978 | 91 | 1047748 | 19.89 | PPBV | | 99 |
| 81) | O-XYLENE | 12.923 | 91 | 532623 | 9.89 | PPBV | | 98 |
| 82) | STYRENE | 12.704 | 104 | 401298 | 10.41 | PPBV | | 99 |
| 83) | NONANE | 14.032 | 43 | 311438 | 9.37 | PPBV | | 94 |
| 84) | BROMOFORM | 11.794 | 173 | 279682 | 10.04 | PPBV | | 98 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 12.926 | 83 | 392470 | 9.80 | PPBV | | 100 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.212 | 75 | 284766 | 9.69 | PPBV | # | 100 |
| 88) | ISOPROPYLBENZENE | 14.437 | 120 | 243360 | 10.66 | PPBV | | 99 |
| 89) | BROMOBENZENE | 14.312 | 77 | 358402 | 9.62 | PPBV | | 98 |
| 90) | 2-CHLOROTOLUENE | 15.440 | 126 | 191388 | 9.98 | PPBV | | 99 |
| 91) | N-PROPYLBENZENE | 15.778 | 120 | 216143 | 10.31 | PPBV | | 100 |
| 92) | 4-ETHYLTOLUENE | 16.148 | 105 | 790989 | 10.24 | PPBV | | 99 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.302 | 105 | 649608 | 10.07 | PPBV | | 100 |
| 94) | ALPHA-METHYLSTYRENE | 16.502 | 118 | 258118 | 9.52 | PPBV | | 99 |
| 95) | TERT-BUTYLBENZENE | 16.759 | 134 | 155150 | 9.40 | PPBV | | 89 |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.768 | 105 | 679072 | 9.85 | PPBV | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61142.D
Acq On : 30 Aug 2022 10:52 am
Operator : williamc
Sample : bsd
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 30 11:15:56 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.852 | 91 | 326803 | 7.66 | PPBV | 98 |
| 98) | M-DICHLOROBENZENE | 16.829 | 146 | 429530 | 9.48 | PPBV | 99 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 431518 | 9.40 | PPBV | 99 |
| 100) | O-DICHLOROBENZENE | 17.206 | 146 | 414543 | 9.29 | PPBV | 99 |
| 101) | SEC-BUTYLBENZENE | 17.042 | 134 | 188574 | 9.20 | PPBV | 87 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 651396 | 9.99 | PPBV | 100 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 206585 | 9.15 | PPBV | 88 |
| 104) | N-BUTYLBENZENE | 17.566 | 134 | 194041 | 9.29 | PPBV | 93 |
| 105) | HEXACHLOROETHANE | 17.746 | 117 | 234556 | 9.17 | PPBV | 98 |
| 106) | HEXACHLOROBUTADIENE | 18.791 | 225 | 292146 | 8.35 | PPBV | 100 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.482 | 180 | 334316 | 9.05 | PPBV | 98 |
| 108) | NAPHTHALENE | 18.530 | 128 | 889655 | 9.43 | PPBV | 100 |

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

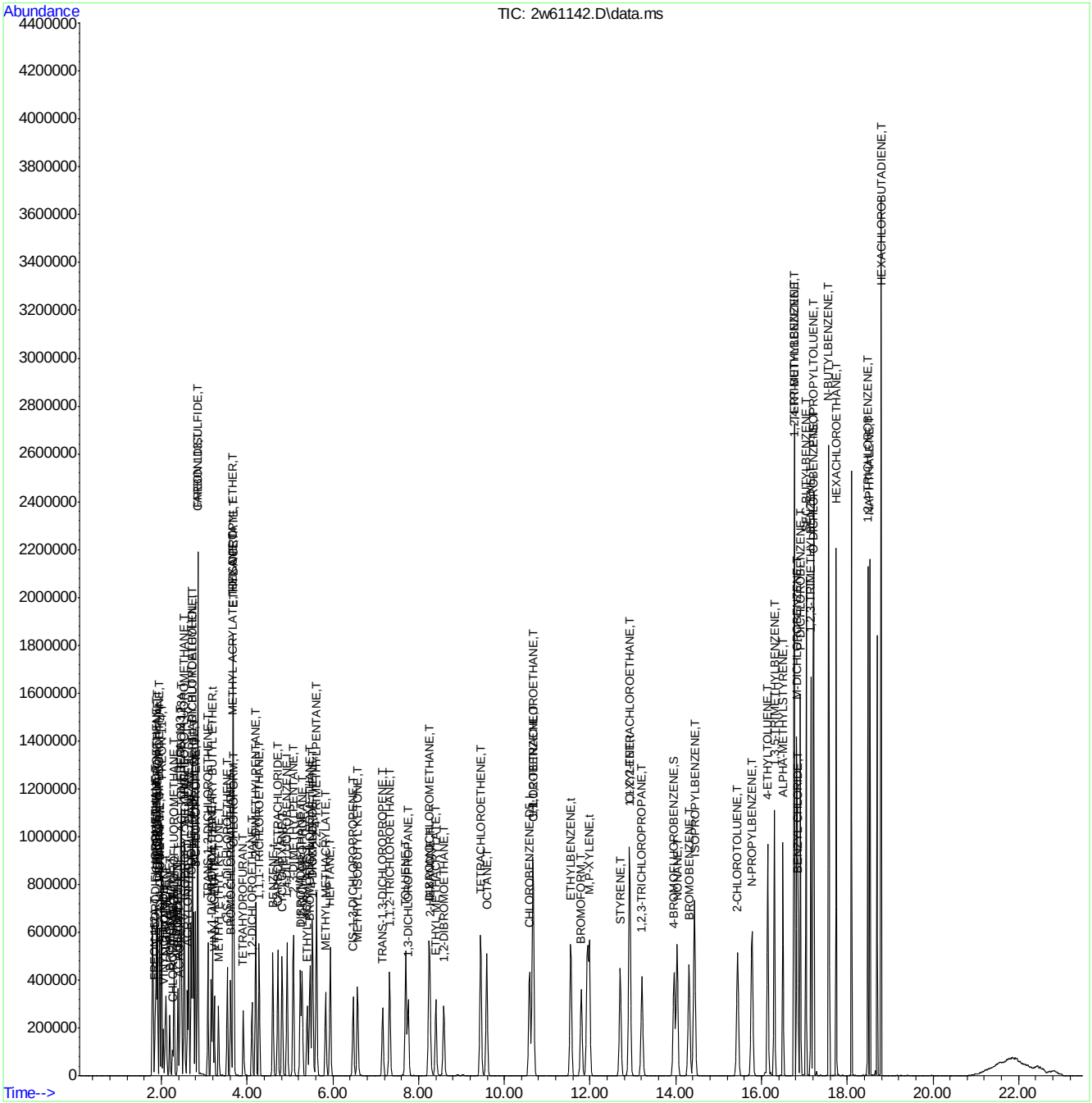
7.3.14

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61142.D
Acq On : 30 Aug 2022 10:52 am
Operator : williamc
Sample : bsd
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 30 11:15:56 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61640.D
Acq On : 28 Sep 2022 1:44 pm
Operator : thomash
Sample : jd52482-2dup
Misc : MS62489,V2w2735,100,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 29 08:14:43 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

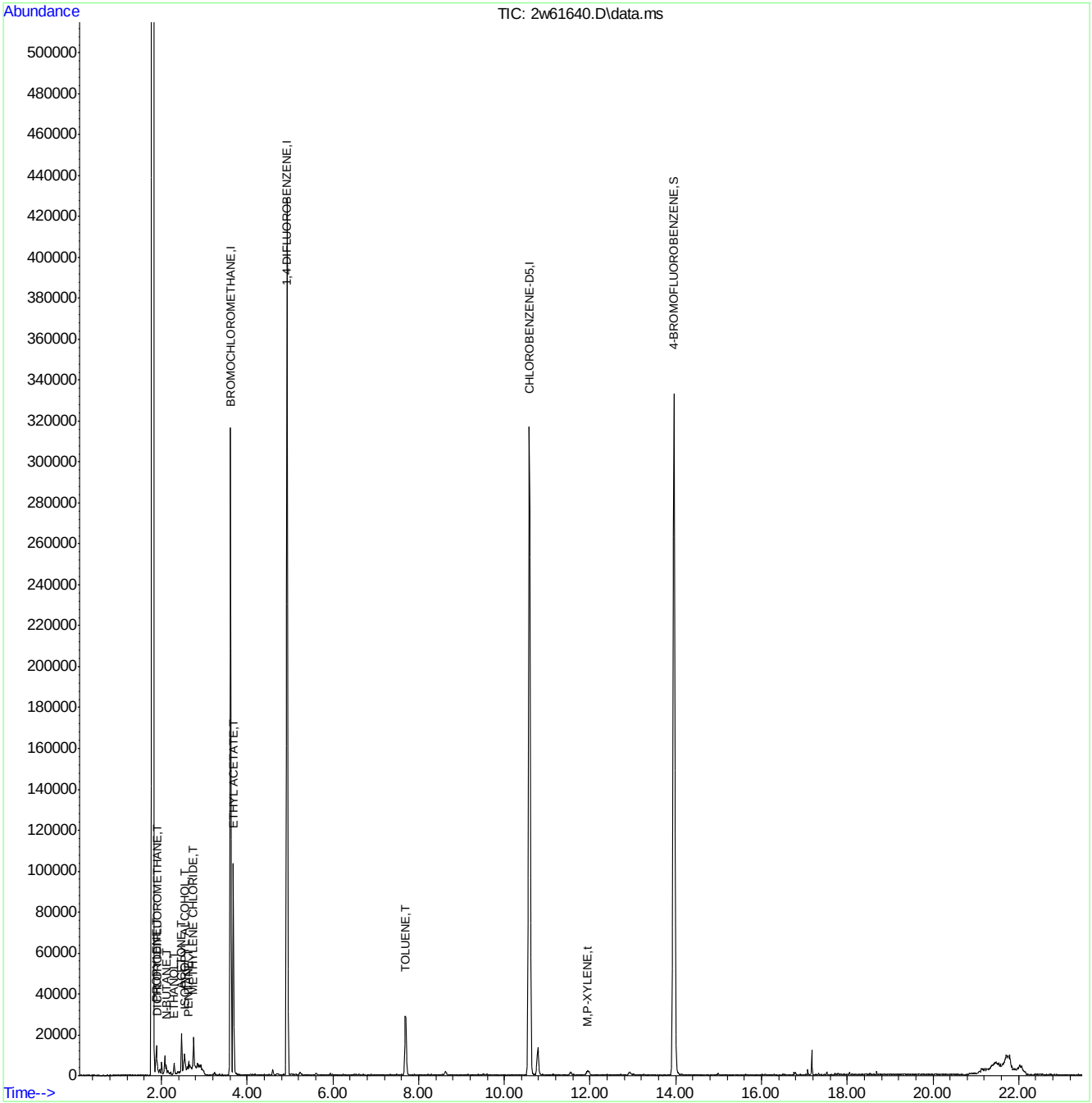
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.611 | 128 | 64088 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.933 | 114 | 331949 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.589 | 117 | 281207 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 200307 | 10.70 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 6) DICHLORODIFLUOROMETHANE | 1.901 | 85 | 3043 | 0.10 | PPBV | # | 83 |
| 7) PROPYLENE | 1.875 | 41 | 4535 | 0.75 | PPBV | | 91 |
| 13) N-BUTANE | 2.113 | 43 | 2780 | 0.19 | PPBV | # | 95 |
| 22) ISOPROPYL ALCOHOL | 2.541 | 45 | 5779 | 0.22 | PPBV | # | 91 |
| 23) ACETONE | 2.470 | 58 | 5206 | 0.62 | PPBV | | 86 |
| 24) PENTANE | 2.634 | 42 | 1081 | 0.07 | PPBV | # | 73 |
| 28) ETHANOL | 2.296 | 45 | 4419 | 0.85 | PPBV | # | 95 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 3577 | 0.25 | PPBV | | 85 |
| 44) ETHYL ACETATE | 3.679 | 61 | 16799 | 4.43 | PPBV | # | 1 |
| 66) TOLUENE | 7.692 | 91 | 30096 | 0.75 | PPBV | | 98 |
| 80) M,P-XYLENE | 11.942 | 91 | 4014 | 0.11 | PPBV | # | 85 |

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

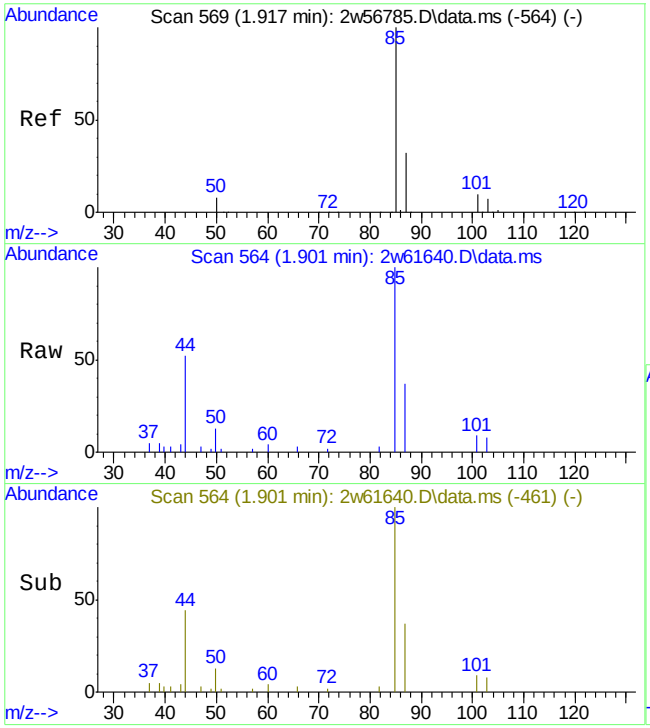
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61640.D
Acq On : 28 Sep 2022 1:44 pm
Operator : thomash
Sample : jd52482-2dup
Misc : MS62489,V2w2735,100,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 29 08:14:43 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



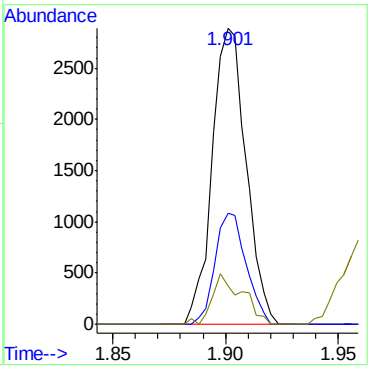

M2W2709.M Thu Sep 29 08:17:16 2022 GCMS2W Page: 2

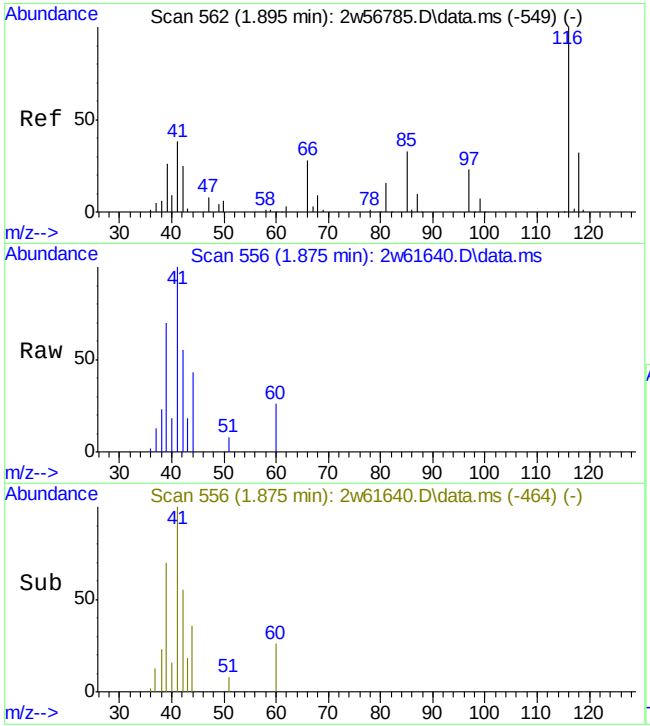



#6
DICHLORODIFLUOROMETHANE
Concen: 0.10 PPBV
RT: 1.901 min Scan# 564
Delta R.T. -0.000 min
Lab File: 2w61640.D
Acq: 28 Sep 2022 1:44 pm

Tgt Ion: 85 Resp: 3043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.3 | 25.9 | 38.9 |
| 50 | 0.0 | 14.6 | 21.8# |

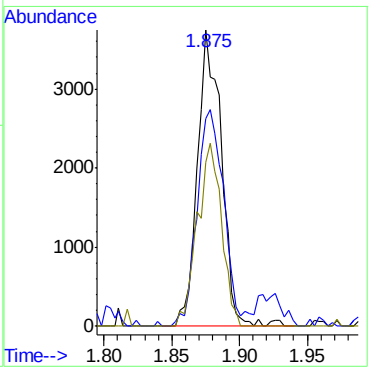


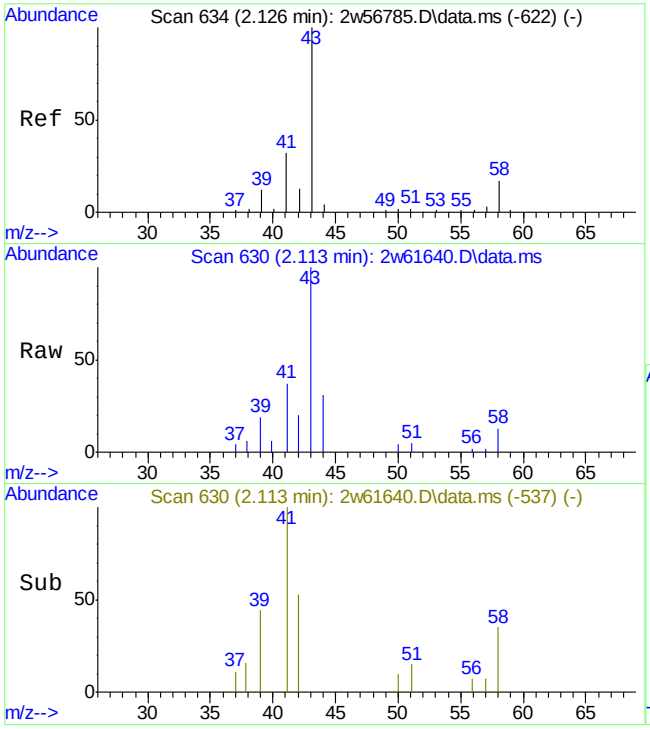




#7
PROPYLENE
Concen: 0.75 PPBV
RT: 1.875 min Scan# 556
Delta R.T. -0.004 min
Lab File: 2w61640.D
Acq: 28 Sep 2022 1:44 pm

Tgt Ion: 41 Resp: 4535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 82.6 | 57.7 | 86.5 |
| 42 | 62.6 | 53.5 | 80.3 |

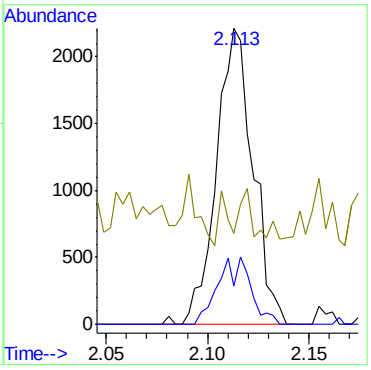


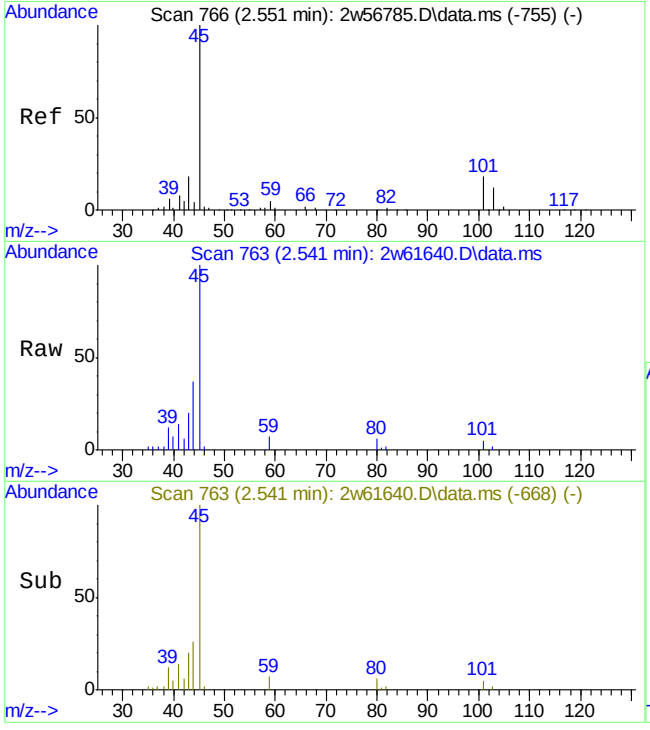



#13
N-BUTANE
Concen: 0.19 PPBV
RT: 2.113 min Scan# 630
Delta R.T. -0.000 min
Lab File: 2w61640.D
Acq: 28 Sep 2022 1:44 pm

Tgt Ion: 43 Resp: 2780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 20.1 | 15.0 | 22.4 |
| 44 | 0.0 | 3.4 | 5.2# |

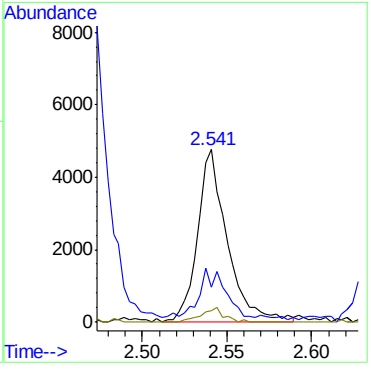


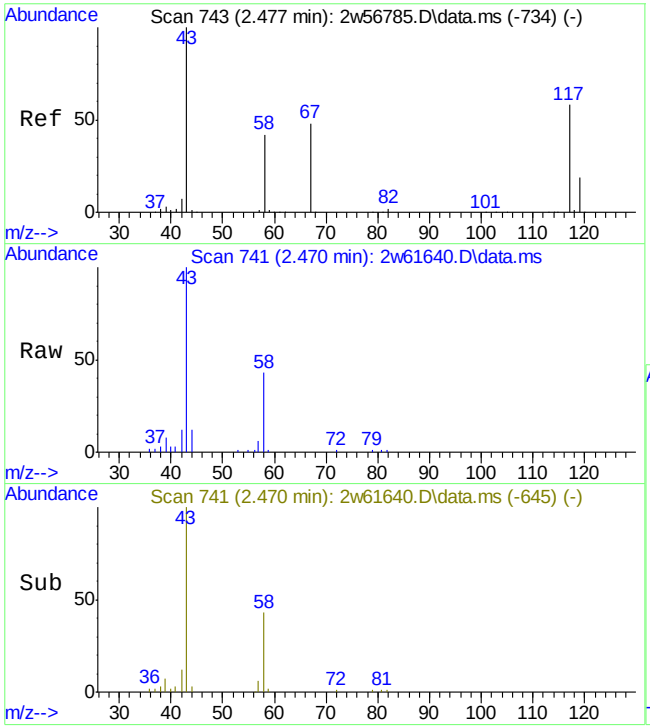




#22
ISOPROPYL ALCOHOL
Concen: 0.22 PPBV
RT: 2.541 min Scan# 763
Delta R.T. 0.006 min
Lab File: 2w61640.D
Acq: 28 Sep 2022 1:44 pm

Tgt Ion: 45 Resp: 5779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 26.1 | 17.8 | 26.6 |
| 59 | 0.0 | 3.6 | 5.4# |

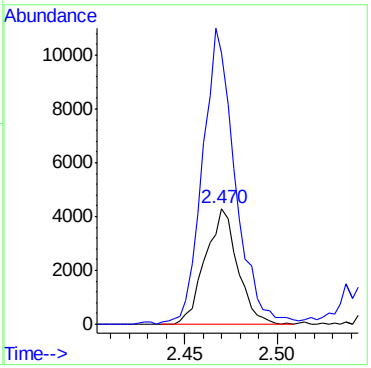


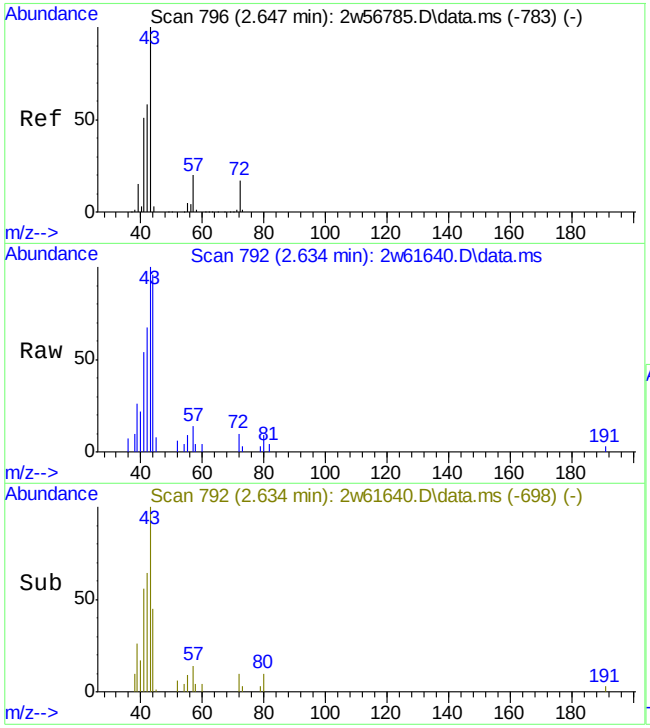



#23
ACETONE
Concen: 0.62 PPBV
RT: 2.470 min Scan# 741
Delta R.T. 0.009 min
Lab File: 2w61640.D
Acq: 28 Sep 2022 1:44 pm

Tgt Ion: 58 Resp: 5206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 260.0 | 229.9 | 344.9 |

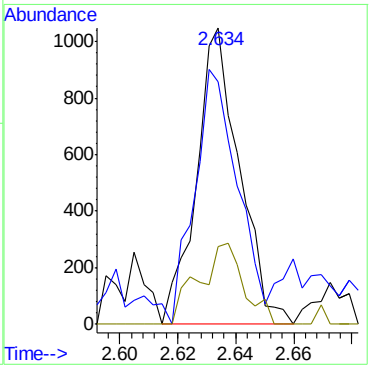


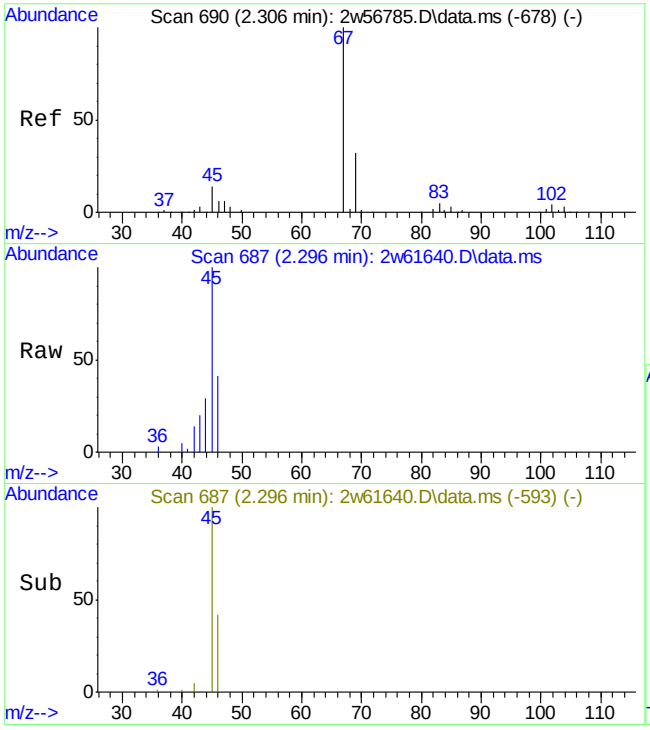




#24
PENTANE
Concen: 0.07 PPBV
RT: 2.634 min Scan# 792
Delta R.T. 0.003 min
Lab File: 2w61640.D
Acq: 28 Sep 2022 1:44 pm

Tgt Ion: 42 Resp: 1081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 41 | 77.5 | 75.7 | 113.5 |
| 57 | 0.0 | 25.0 | 37.6# |

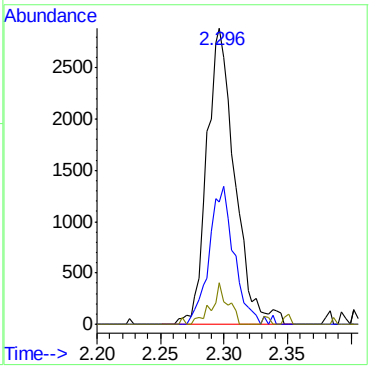


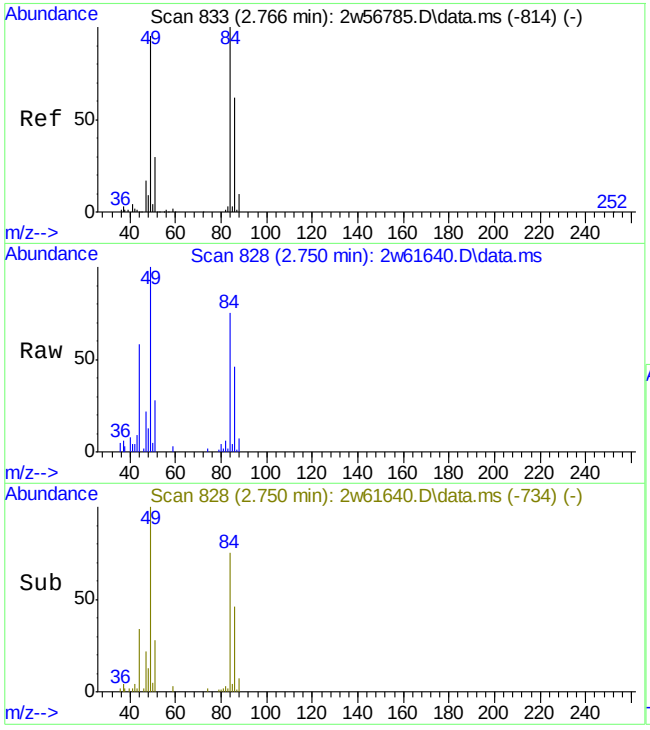



#28
ETHANOL
Concen: 0.85 PPBV
RT: 2.296 min Scan# 687
Delta R.T. 0.003 min
Lab File: 2w61640.D
Acq: 28 Sep 2022 1:44 pm

Tgt Ion: 45 Resp: 4419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 41.2 | 33.4 | 50.2 |
| 42 | 0.0 | 7.4 | 11.2# |

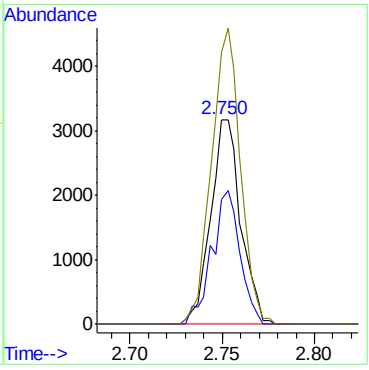


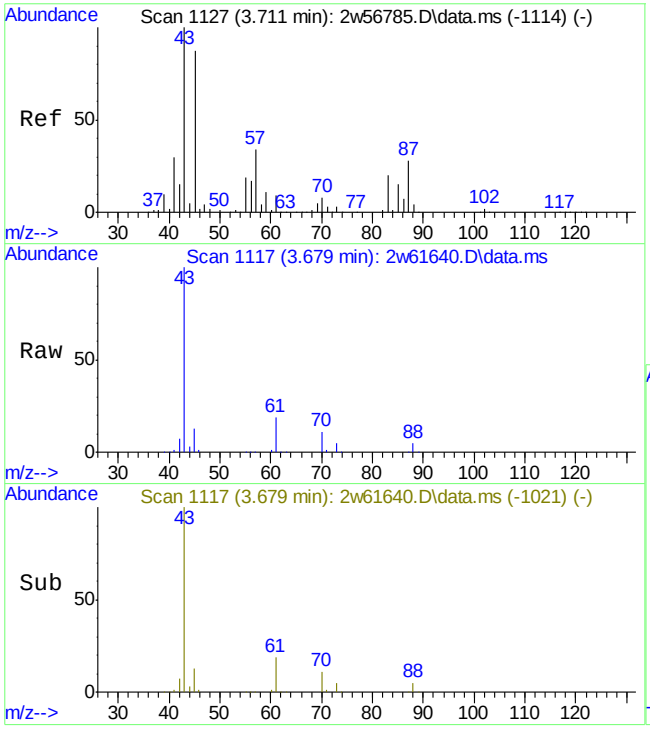




#31
METHYLENE CHLORIDE
Concen: 0.25 PPBV
RT: 2.750 min Scan# 828
Delta R.T. 0.003 min
Lab File: 2w61640.D
Acq: 28 Sep 2022 1:44 pm

Tgt Ion: 84 Resp: 3577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 60.9 | 51.3 | 76.9 |
| 49 | 139.9 | 133.3 | 199.9 |

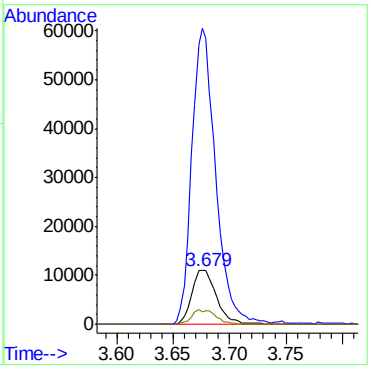


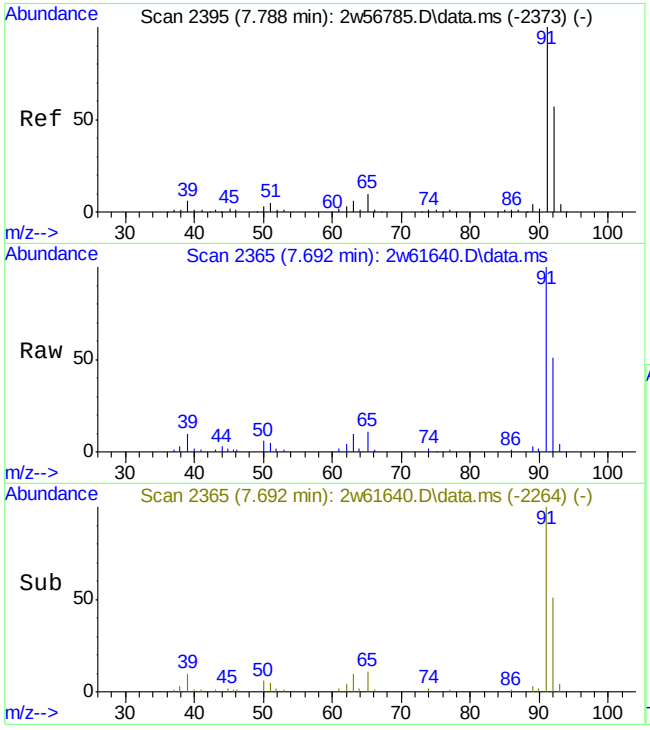



#44
ETHYL ACETATE
Concen: 4.43 PPBV
RT: 3.679 min Scan# 1117
Delta R.T. 0.009 min
Lab File: 2w61640.D
Acq: 28 Sep 2022 1:44 pm

Tgt Ion: 61 Resp: 16799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 529.7 | 1054.2 | 1581.2# |
| 88 | 26.0 | 34.4 | 51.6# |

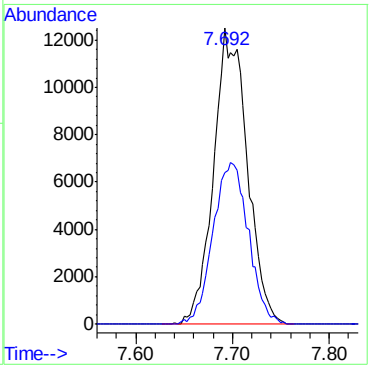


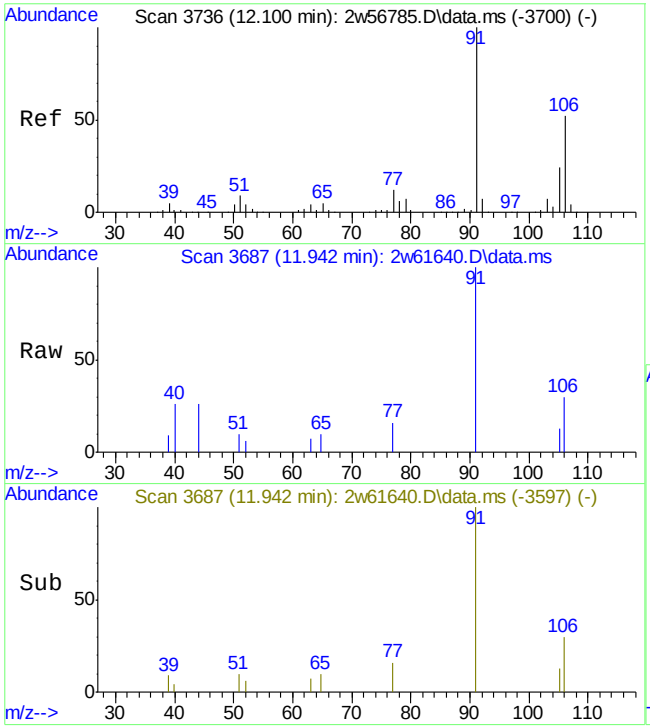




#66
TOLUENE
Concen: 0.75 PPBV
RT: 7.692 min Scan# 2365
Delta R.T. -0.007 min
Lab File: 2w61640.D
Acq: 28 Sep 2022 1:44 pm

Tgt Ion: 91 Resp: 30096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.7 | 39.3 | 79.3 |

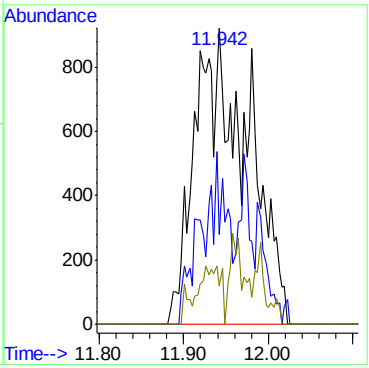





#80
M,P-XYLENE
Concen: 0.11 PPBV
RT: 11.942 min Scan# 3687
Delta R.T. -0.042 min
Lab File: 2w61640.D
Acq: 28 Sep 2022 1:44 pm

Tgt Ion: 91 Resp: 4014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 27.4 | 3.0 | 43.0 |
| 105 | 0.0 | 0.0 | 30.9 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61665.D
Acq On : 29 Sep 2022 4:48 pm
Operator : thomash
Sample : jd52620-8dup
Misc : MS62557,V2w2736,100,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 03 12:37:14 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

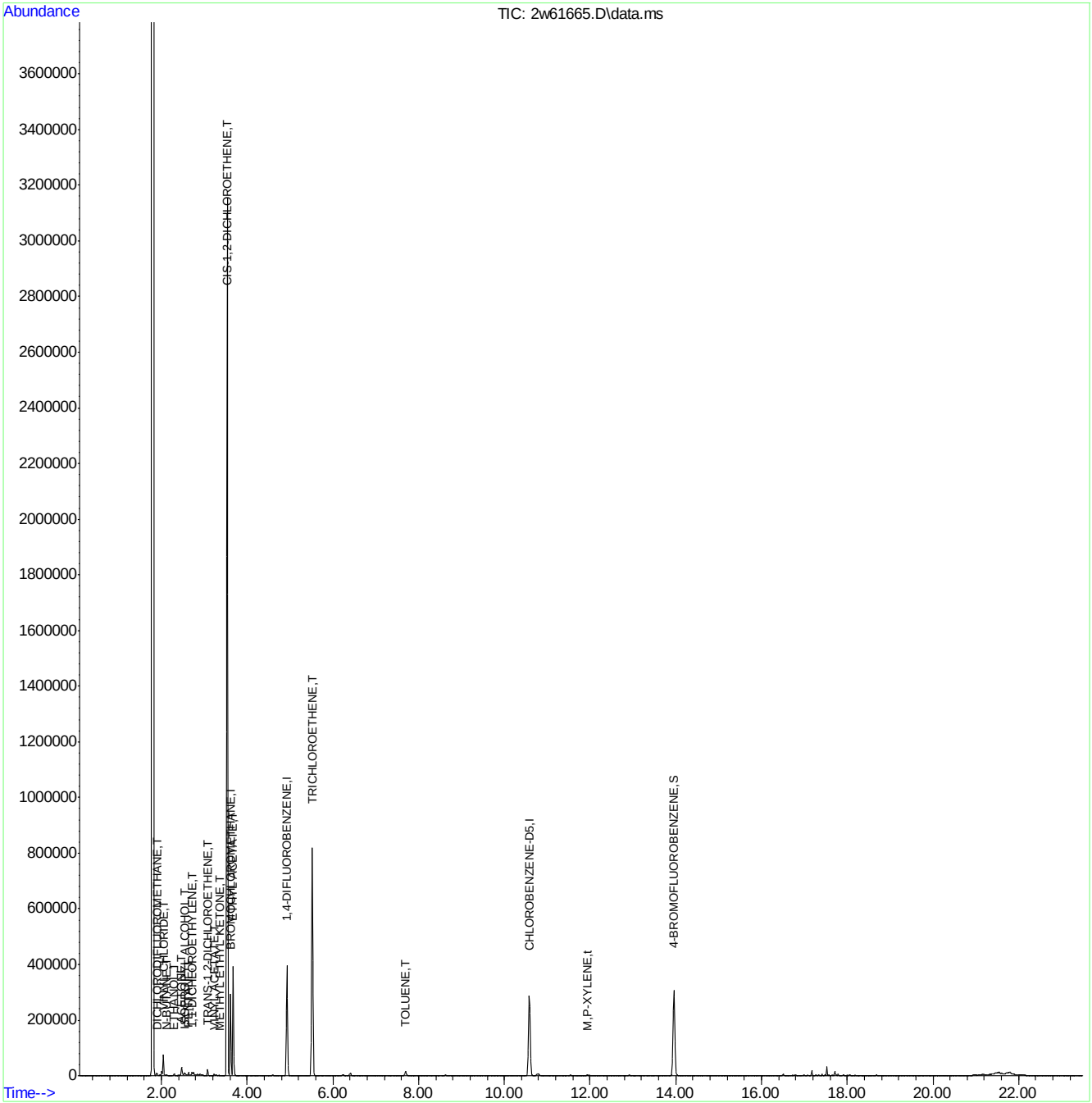
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.611 | 128 | 57780 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 306465 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 254218 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.961 | 95 | 178957 | 10.57 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 6) DICHLORODIFLUOROMETHANE | 1.907 | 85 | 3050 | 0.11 | PPBV | # | 84 |
| 11) VINYL CHLORIDE | 2.046 | 62 | 57878 | 5.76 | PPBV | | 99 |
| 13) N-BUTANE | 2.116 | 43 | 2332 | 0.17 | PPBV | # | 54 |
| 22) ISOPROPYL ALCOHOL | 2.538 | 45 | 5314 | 0.22 | PPBV | # | 93 |
| 23) ACETONE | 2.467 | 58 | 9055 | 1.19 | PPBV | # | 62 |
| 24) PENTANE | 2.631 | 42 | 2252 | 0.17 | PPBV | | 98 |
| 26) 1,1-DICHLOROETHYLENE | 2.718 | 96 | 2044 | 0.18 | PPBV | | 92 |
| 28) ETHANOL | 2.296 | 45 | 3908 | 0.83 | PPBV | # | 92 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 5721 | 0.60 | PPBV | | 96 |
| 39) VINYL ACETATE | 3.232 | 86 | 523 | 0.22 | PPBV | # | 85 |
| 41) METHYL ETHYL KETONE | 3.351 | 72 | 523 | 0.12 | PPBV | # | 86 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 939675 | 91.56 | PPBV | | 95 |
| 44) ETHYL ACETATE | 3.673 | 61 | 61834 | 18.07 | PPBV | # | 1 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 284218 | 21.88 | PPBV | | 95 |
| 66) TOLUENE | 7.701 | 91 | 15532 | 0.42 | PPBV | | 99 |
| 80) M,P-XYLENE | 11.929 | 91 | 3958 | 0.12 | PPBV | | 95 |

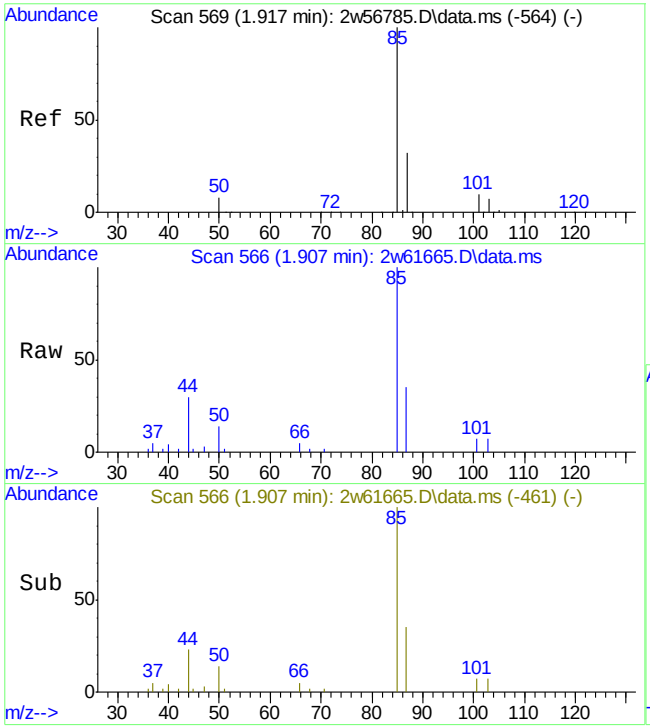
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61665.D
Acq On : 29 Sep 2022 4:48 pm
Operator : thomash
Sample : jd52620-8dup
Misc : MS62557,V2w2736,100,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 03 12:37:14 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

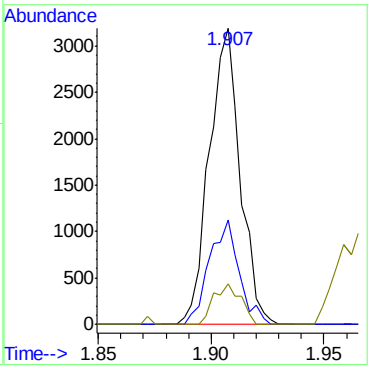


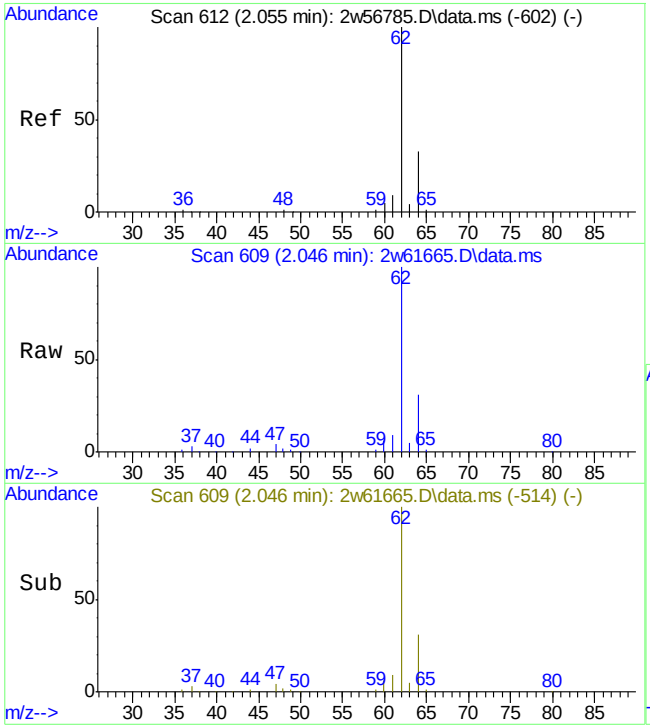



#6
DICHLORODIFLUOROMETHANE
Concen: 0.11 PPBV
RT: 1.907 min Scan# 566
Delta R.T. 0.006 min
Lab File: 2w61665.D
Acq: 29 Sep 2022 4:48 pm

Tgt Ion: 85 Resp: 3050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.9 | 25.9 | 38.9 |
| 50 | 0.0 | 14.6 | 21.8# |

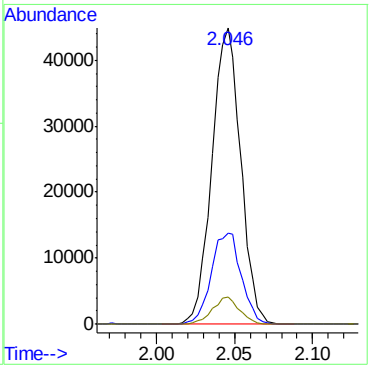


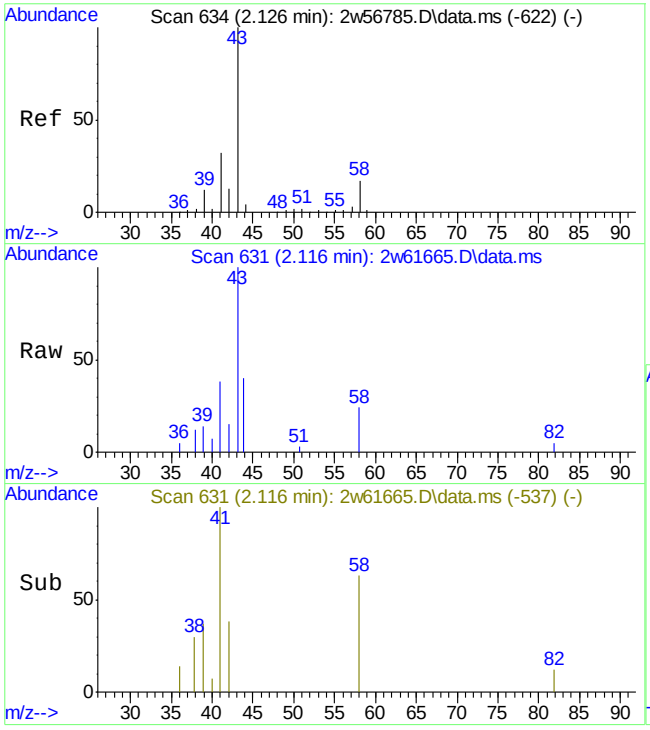




#11
VINYL CHLORIDE
Concen: 5.76 PPBV
RT: 2.046 min Scan# 609
Delta R.T. 0.006 min
Lab File: 2w61665.D
Acq: 29 Sep 2022 4:48 pm

Tgt Ion: 62 Resp: 57878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.0 | 25.2 | 37.8 |
| 61 | 8.6 | 7.0 | 10.4 |

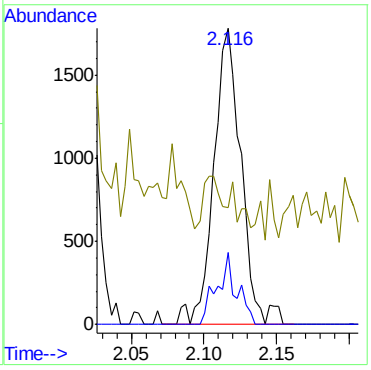


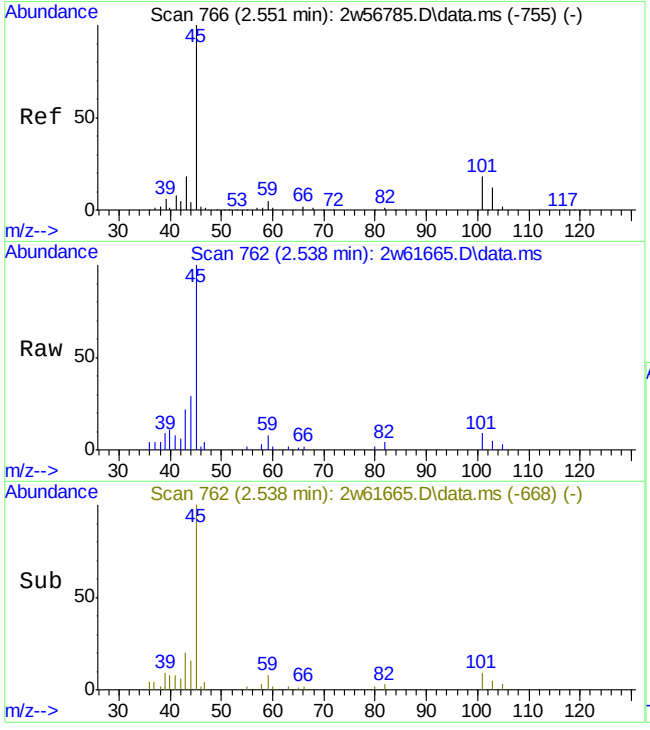



#13
N-BUTANE
Concen: 0.17 PPBV
RT: 2.116 min Scan# 631
Delta R.T. 0.003 min
Lab File: 2w61665.D
Acq: 29 Sep 2022 4:48 pm

Tgt Ion: 43 Resp: 2332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 15.0 | 22.4# |
| 44 | 25.3 | 3.4 | 5.2# |

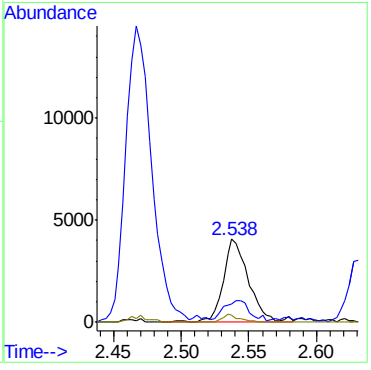


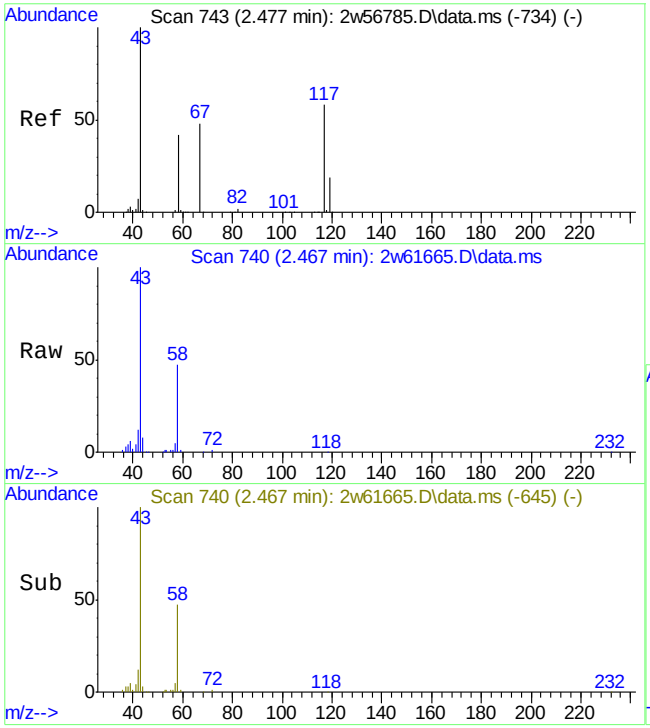




#22
ISOPROPYL ALCOHOL
Concen: 0.22 PPBV
RT: 2.538 min Scan# 762
Delta R.T. 0.003 min
Lab File: 2w61665.D
Acq: 29 Sep 2022 4:48 pm

Tgt Ion: 45 Resp: 5314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 24.7 | 17.8 | 26.6 |
| 59 | 0.0 | 3.6 | 5.4# |

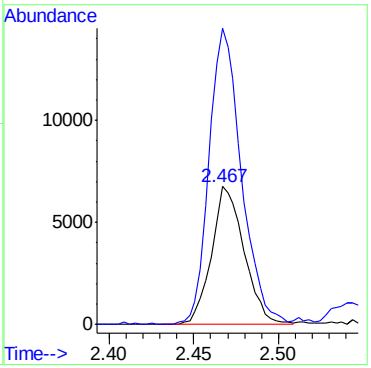


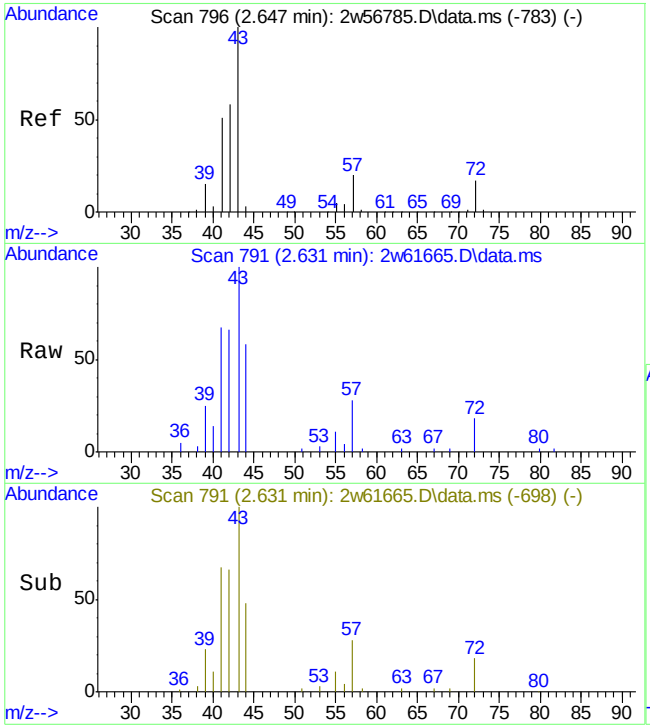



#23
ACETONE
Concen: 1.19 PPBV
RT: 2.467 min Scan# 740
Delta R.T. 0.006 min
Lab File: 2w61665.D
Acq: 29 Sep 2022 4:48 pm

Tgt Ion: 58 Resp: 9055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 215.1 | 229.9 | 344.9# |

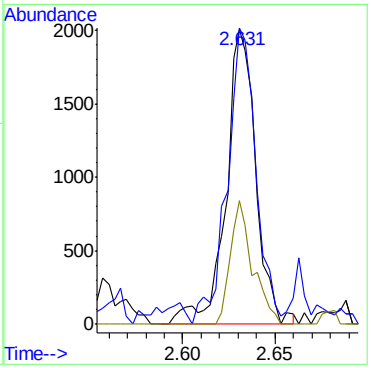


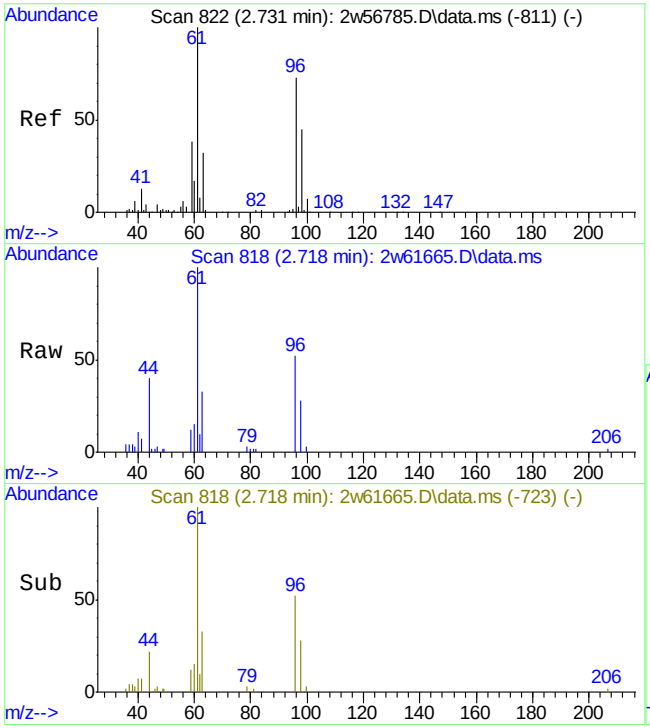




#24
PENTANE
Concen: 0.17 PPBV
RT: 2.631 min Scan# 791
Delta R.T. -0.000 min
Lab File: 2w61665.D
Acq: 29 Sep 2022 4:48 pm

Tgt Ion: 42 Resp: 2252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 41 | 92.5 | 75.7 | 113.5 |
| 57 | 31.6 | 25.0 | 37.6 |

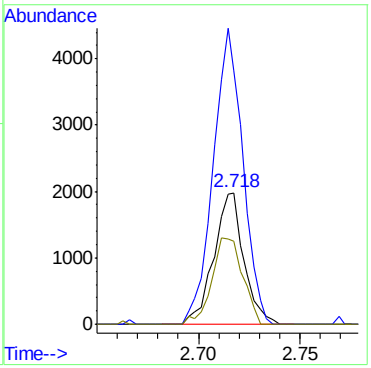


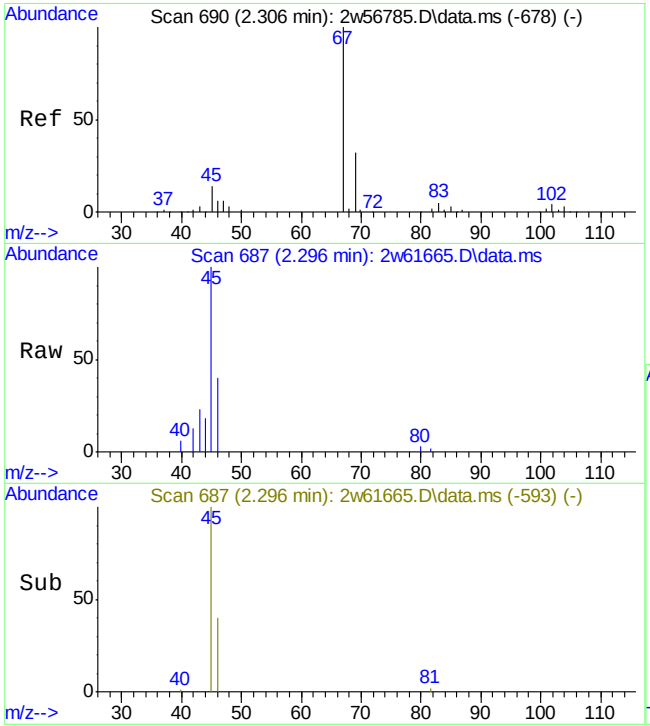



#26
1,1-DICHLOROETHYLENE
Concen: 0.18 PPBV
RT: 2.718 min Scan# 818
Delta R.T. 0.006 min
Lab File: 2w61665.D
Acq: 29 Sep 2022 4:48 pm

Tgt Ion: 96 Resp: 2044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 221.5 | 166.0 | 249.0 |
| 63 | 67.1 | 52.0 | 78.0 |

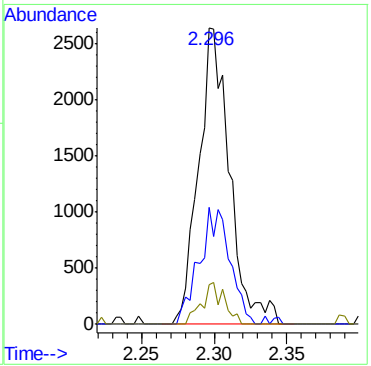


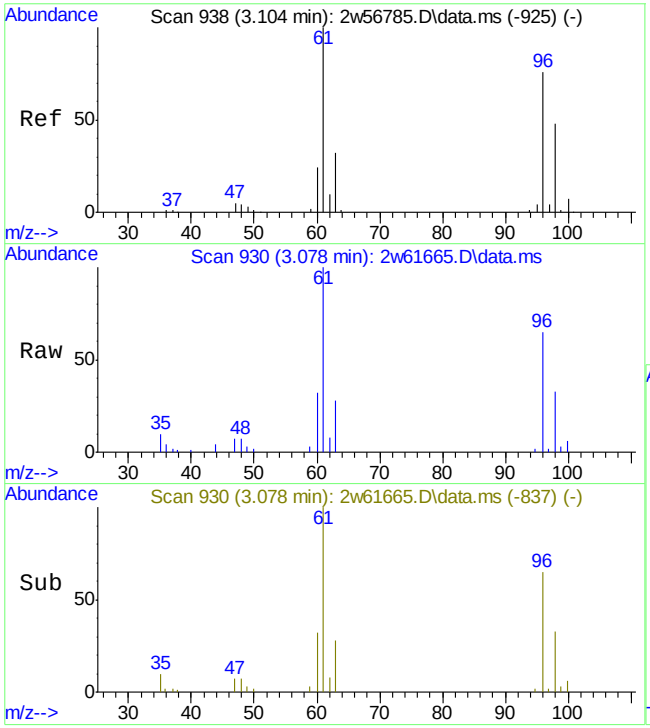




#28
ETHANOL
Concen: 0.83 PPBV
RT: 2.296 min Scan# 687
Delta R.T. 0.003 min
Lab File: 2w61665.D
Acq: 29 Sep 2022 4:48 pm

Tgt Ion: 45 Resp: 3908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 38.8 | 33.4 | 50.2 |
| 42 | 0.0 | 7.4 | 11.2# |

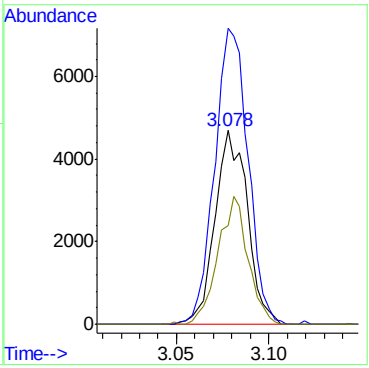


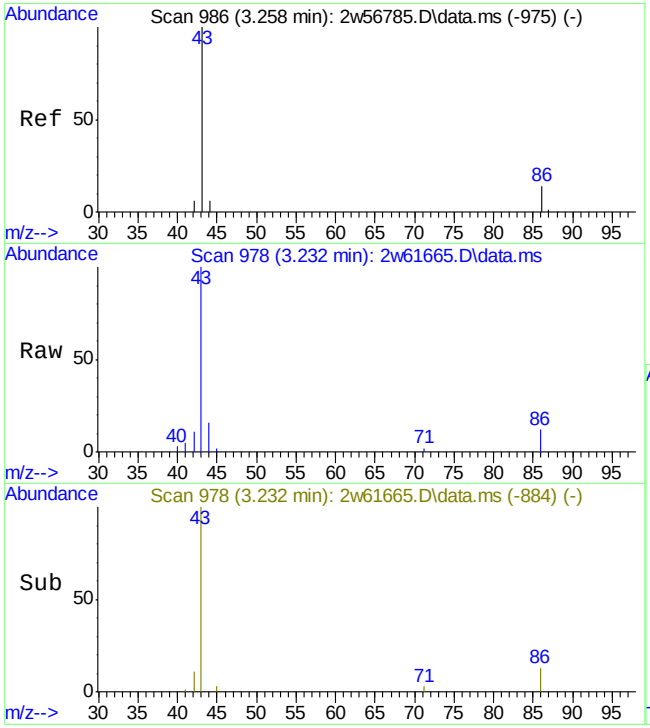



#34
TRANS-1,2-DICHLOROETHENE
Concen: 0.60 PPBV
RT: 3.078 min Scan# 930
Delta R.T. -0.000 min
Lab File: 2w61665.D
Acq: 29 Sep 2022 4:48 pm

Tgt Ion: 96 Resp: 5721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 157.6 | 121.8 | 182.8 |
| 98 | 61.3 | 51.4 | 77.0 |

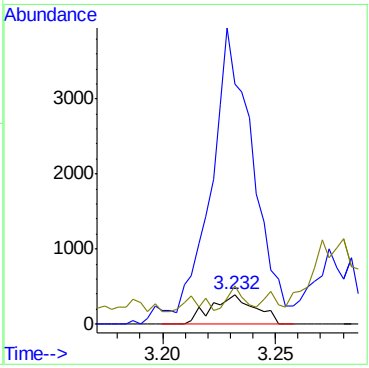


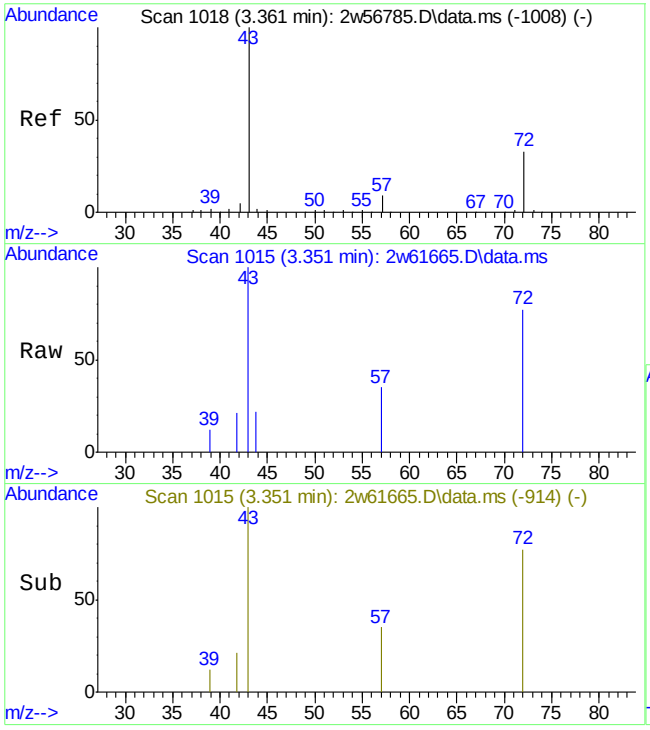




#39
VINYL ACETATE
Concen: 0.22 PPBV
RT: 3.232 min Scan# 978
Delta R.T. 0.003 min
Lab File: 2w61665.D
Acq: 29 Sep 2022 4:48 pm

Tgt Ion: 86 Resp: 523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 86 | 100 | | |
| 43 | 1007.6 | 766.9 | 1150.3 |
| 44 | 0.0 | 41.8 | 62.6# |

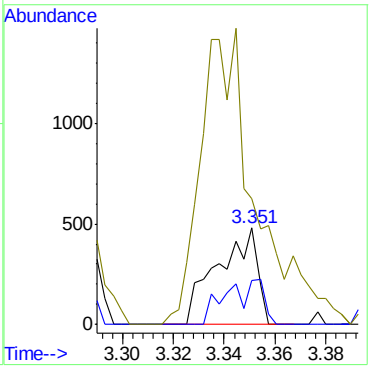


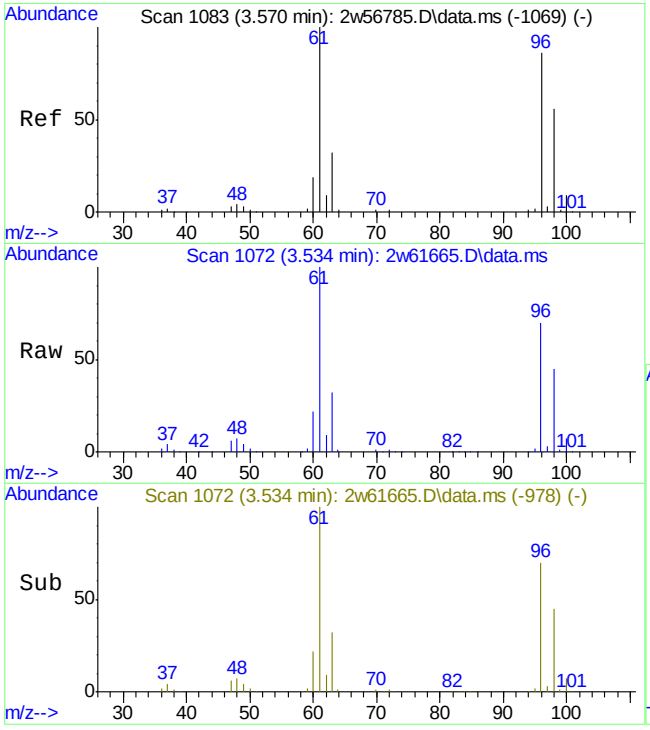



#41
METHYL ETHYL KETONE
Concen: 0.12 PPBV
RT: 3.351 min Scan# 1015
Delta R.T. 0.025 min
Lab File: 2w61665.D
Acq: 29 Sep 2022 4:48 pm

Tgt Ion: 72 Resp: 523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 72 | 100 | | |
| 57 | 0.0 | 29.1 | 43.7# |
| 43 | 424.9 | 321.0 | 481.4 |

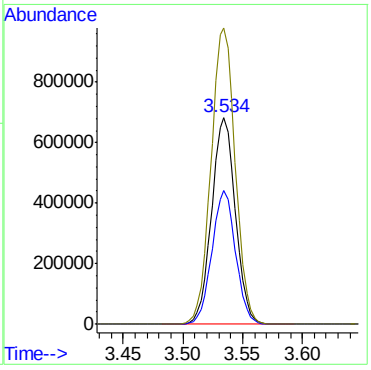


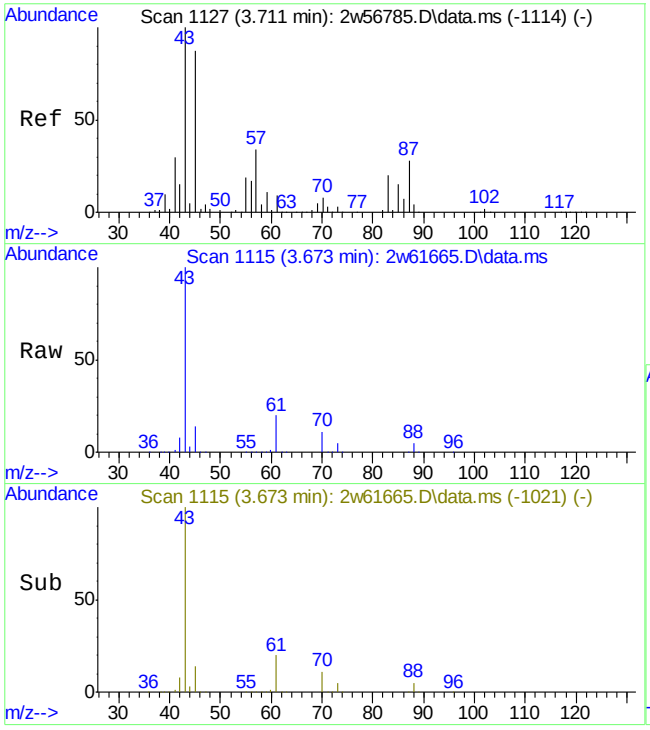




#42
CIS-1,2-DICHLOROETHENE
Concen: 91.56 PPBV
RT: 3.534 min Scan# 1072
Delta R.T. 0.003 min
Lab File: 2w61665.D
Acq: 29 Sep 2022 4:48 pm

Tgt Ion: 96 Resp: 939675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 98 | 64.3 | 51.0 | 76.6 |
| 61 | 146.1 | 109.5 | 164.3 |

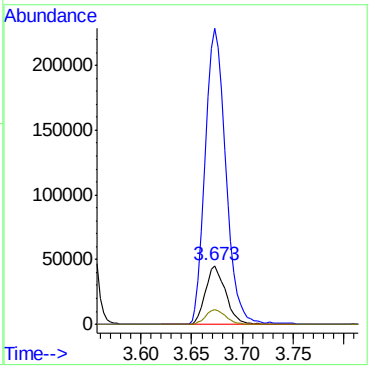


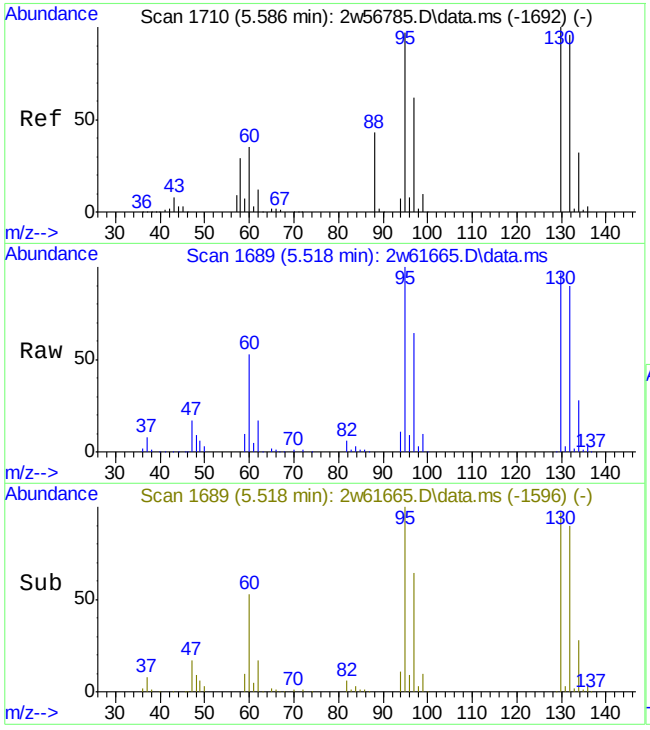



#44
ETHYL ACETATE
Concen: 18.07 PPBV
RT: 3.673 min Scan# 1115
Delta R.T. 0.003 min
Lab File: 2w61665.D
Acq: 29 Sep 2022 4:48 pm

Tgt Ion: 61 Resp: 61834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 519.4 | 1054.2 | 1581.2# |
| 88 | 24.9 | 34.4 | 51.6# |

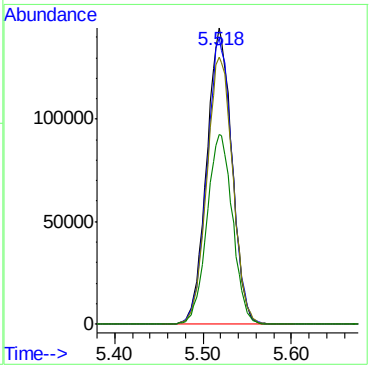


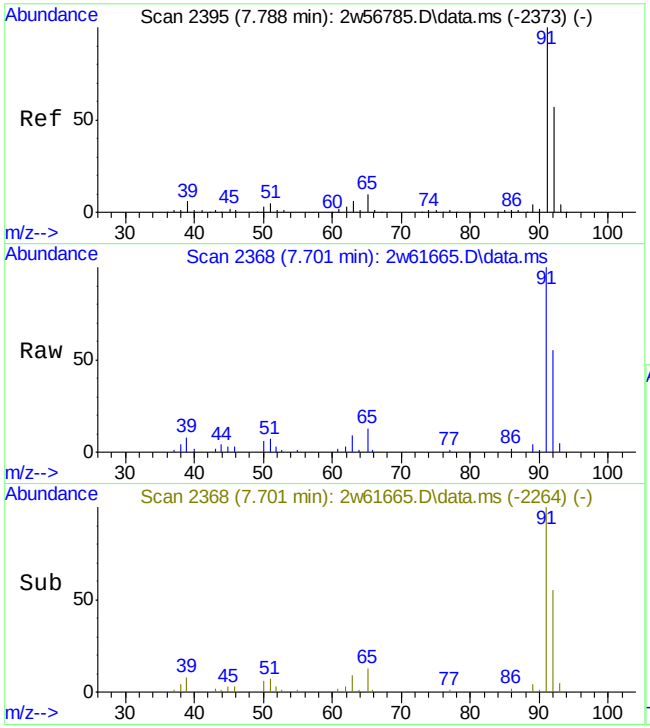




#55
TRICHLOROETHENE
Concen: 21.88 PPBV
RT: 5.518 min Scan# 1689
Delta R.T. -0.000 min
Lab File: 2w61665.D
Acq: 29 Sep 2022 4:48 pm

Tgt Ion: 95 Resp: 284218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 96.8 | 82.8 | 124.2 |
| 132 | 92.2 | 79.3 | 118.9 |
| 97 | 64.8 | 52.0 | 78.0 |

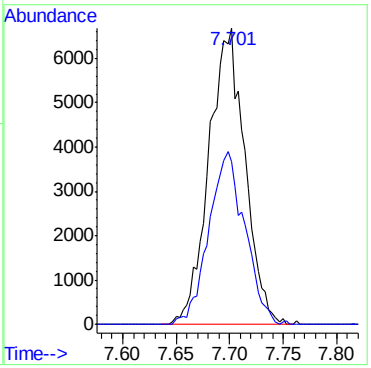


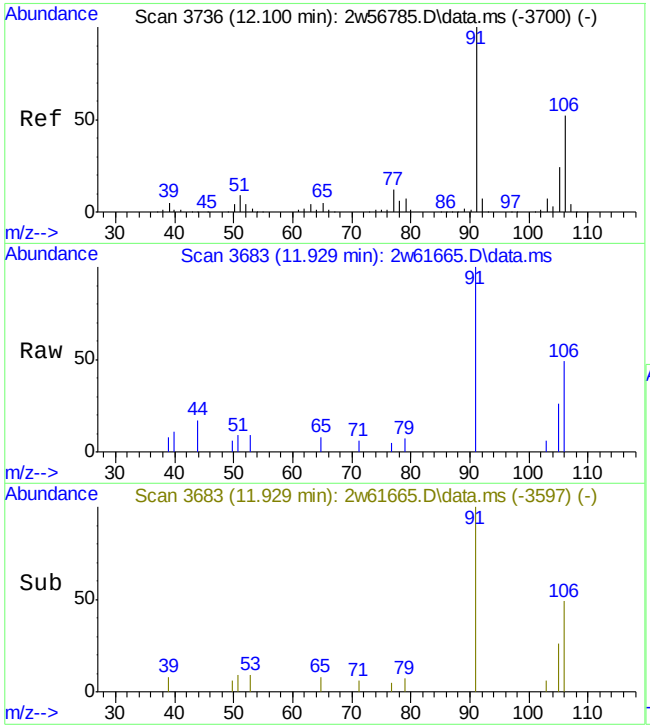



#66
TOLUENE
Concen: 0.42 PPBV
RT: 7.701 min Scan# 2368
Delta R.T. 0.003 min
Lab File: 2w61665.D
Acq: 29 Sep 2022 4:48 pm

Tgt Ion: 91 Resp: 15532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.6 | 39.3 | 79.3 |

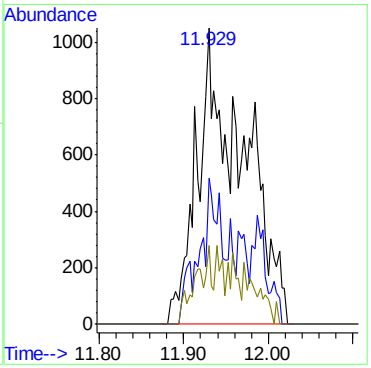



#80
M,P-XYLENE
Concen: 0.12 PPBV
RT: 11.929 min Scan# 3683
Delta R.T. -0.055 min
Lab File: 2w61665.D
Acq: 29 Sep 2022 4:48 pm

Tgt Ion: 91 Resp: 3958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 23.5 | 3.0 | 43.0 |
| 105 | 16.2 | 0.0 | 30.9 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26144.D
Acq On : 29 Sep 2022 8:17 pm
Operator : thomash
Sample : jd52615-1dup
Misc : MS62556,V6W1111,100,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 30 13:53:20 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

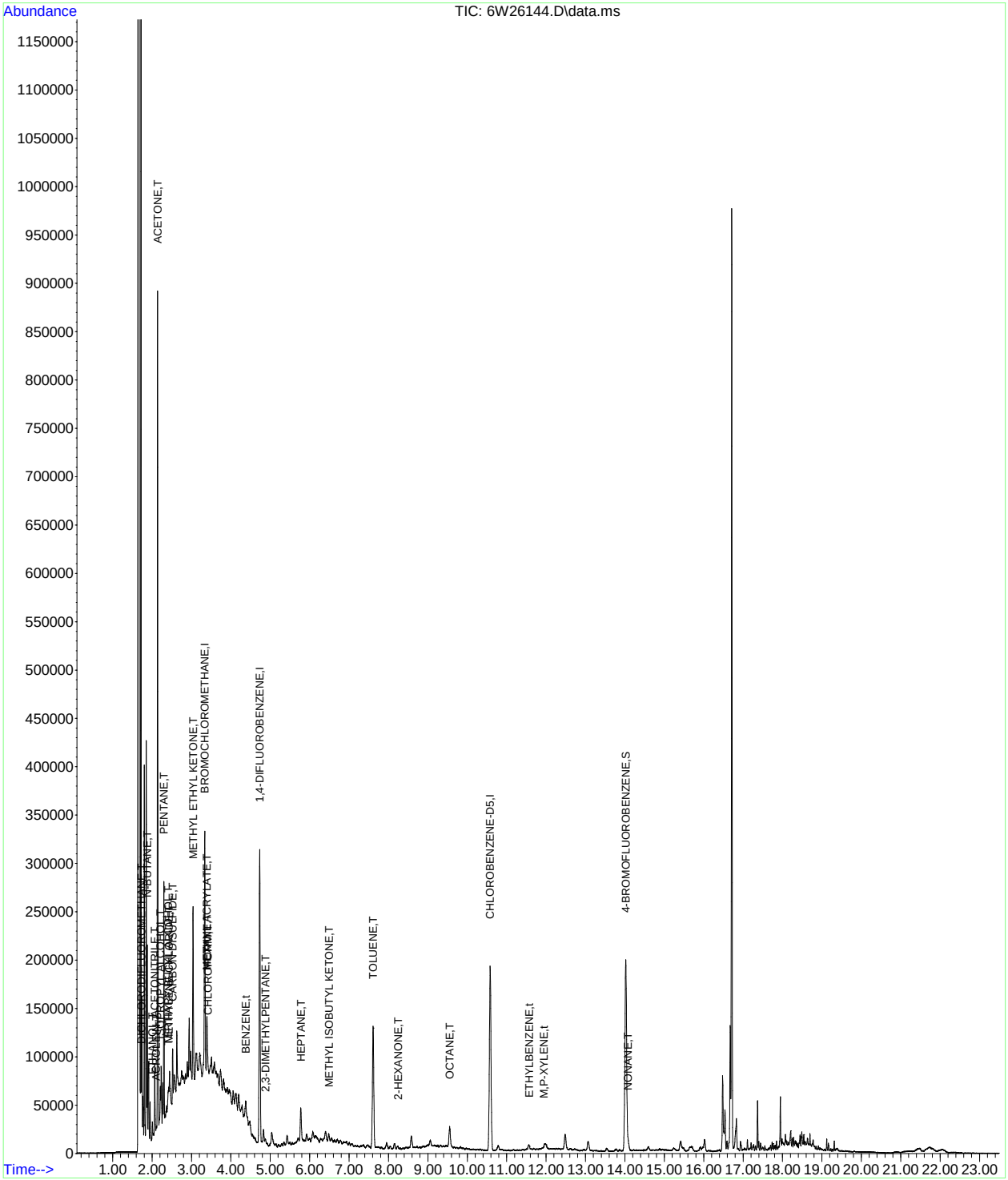
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.335 | 128 | 37975 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.731 | 114 | 205808 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.580 | 117 | 151804 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.020 | 95 | 115484 | 10.41 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 6) DICHLORODIFLUOROMETHANE | 1.731 | 85 | 1823 | 0.10 | PPBV | # 55 |
| 13) N-BUTANE | 1.879 | 43 | 77312 | 6.82 | PPBV | # 93 |
| 17) ACETONITRILE | 2.069 | 41 | 5245 | 0.72 | PPBV | # 31 |
| 18) ACROLEIN | 2.104 | 56 | 1143 | 0.35 | PPBV | 91 |
| 22) ISOPROPYL ALCOHOL | 2.210 | 45 | 21437 | 1.38 | PPBV | # 77 |
| 23) ACETONE | 2.139 | 58 | 147068 | 40.61 | PPBV | # 47 |
| 24) PENTANE | 2.300 | 42 | 46637 | 5.35 | PPBV | # 91 |
| 27) CARBON DISULFIDE | 2.522 | 76 | 41852 | 2.06 | PPBV | # 86 |
| 28) ETHANOL | 2.008 | 45 | 8225 | 2.12 | PPBV | # 95 |
| 31) METHYLENE CHLORIDE | 2.426 | 84 | 2885 | 0.46 | PPBV | # 66 |
| 35) TERTIARY BUTYL ALCOHOL | 2.403 | 59 | 1887 | 0.13 | PPBV | # 1 |
| 38) HEXANE | 3.393 | 57 | 18171 | 1.46 | PPBV | 98 |
| 41) METHYL ETHYL KETONE | 3.040 | 72 | 32657 | 10.21 | PPBV | # 35 |
| 45) METHYL ACRYLATE | 3.390 | 55 | 2945 | 0.18 | PPBV | # 64 |
| 46) CHLOROFORM | 3.419 | 83 | 1576 | 0.11 | PPBV | # 83 |
| 51) BENZENE | 4.380 | 78 | 12505 | 0.61 | PPBV | 81 |
| 54) 2,3-DIMETHYLPENTANE | 4.876 | 71 | 1083 | 0.24 | PPBV | # 66 |
| 62) HEPTANE | 5.776 | 43 | 14630 | 1.17 | PPBV | # 79 |
| 64) METHYL ISOBUTYL KETONE | 6.490 | 58 | 1107 | 0.21 | PPBV | # 24 |
| 66) TOLUENE | 7.609 | 91 | 118616 | 6.07 | PPBV | 100 |
| 70) 2-HEXANONE | 8.242 | 58 | 1258 | 0.19 | PPBV | # 30 |
| 75) OCTANE | 9.551 | 43 | 11776 | 0.78 | PPBV | # 74 |
| 79) ETHYLBENZENE | 11.567 | 91 | 5318 | 0.21 | PPBV | 94 |
| 80) M,P-XYLENE | 11.946 | 91 | 3101 | 0.16 | PPBV | # 34 |
| 83) NONANE | 14.078 | 43 | 6464 | 0.37 | PPBV | # 77 |

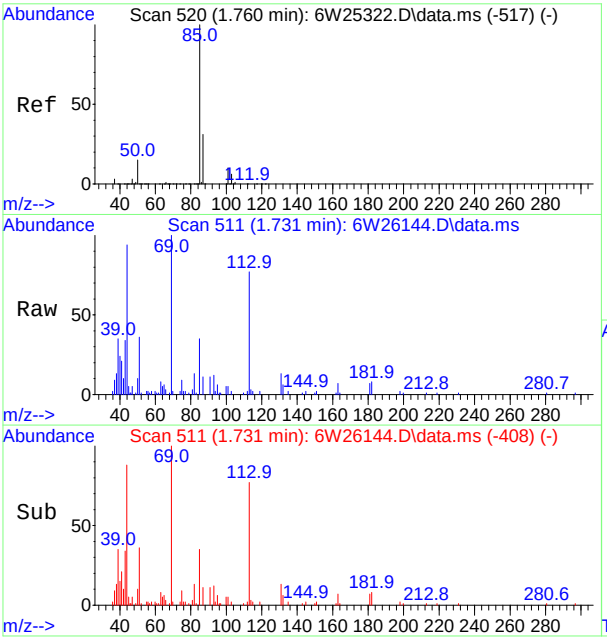
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26144.D
Acq On : 29 Sep 2022 8:17 pm
Operator : thomash
Sample : jd52615-1dup
Misc : MS62556,V6W1111,100,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 30 13:53:20 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

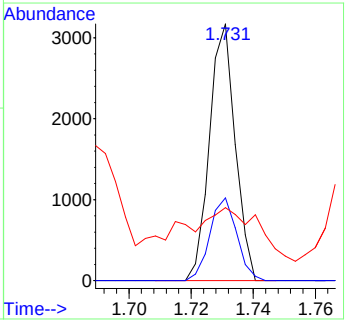


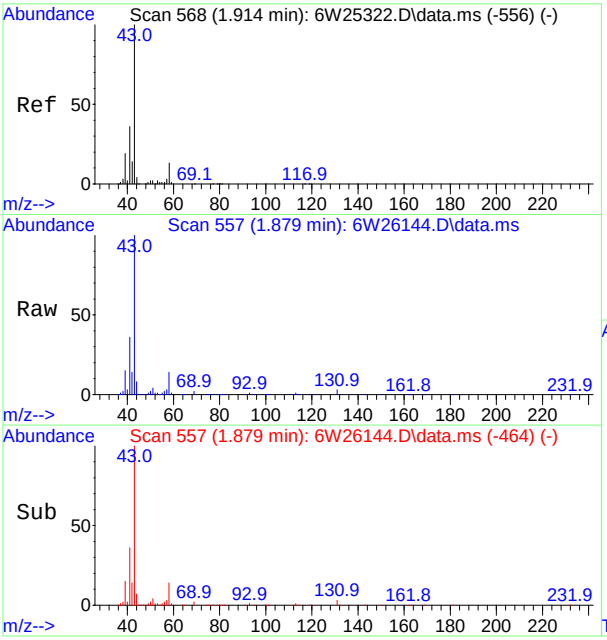



#6
DICHLORODIFLUOROMETHANE
Concen: 0.10 PPBV
RT: 1.731 min Scan# 511
Delta R.T. 0.001 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 85 Resp: 1823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.0 | 25.8 | 38.6 |
| 50 | 78.8 | 7.4 | 11.2# |

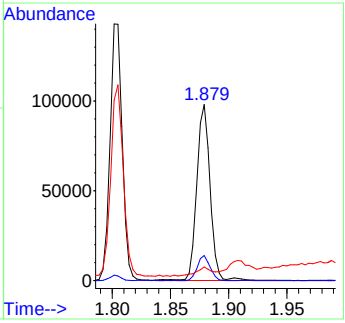


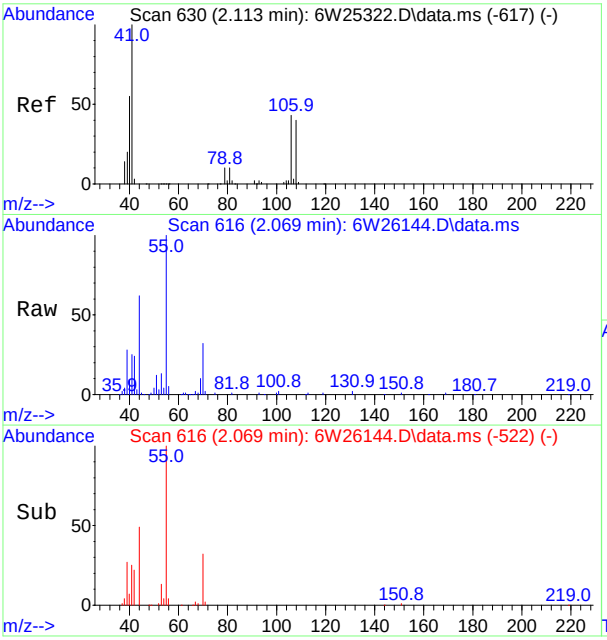




#13
N-BUTANE
Concen: 6.82 PPBV
RT: 1.879 min Scan# 557
Delta R.T. 0.001 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 43 Resp: 77312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 13.9 | 14.2 | 21.2# |
| 44 | 6.3 | 4.2 | 6.4 |

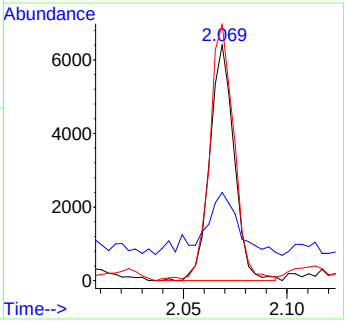


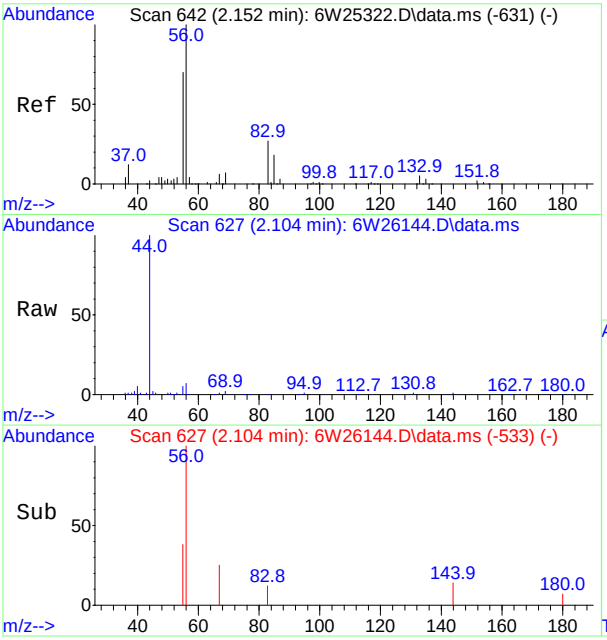



#17
ACETONITRILE
Concen: 0.72 PPBV
RT: 2.069 min Scan# 616
Delta R.T. 0.004 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 41 Resp: 5245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 40 | 37.0 | 41.6 | 62.4# |
| 39 | 109.8 | 14.2 | 21.4# |

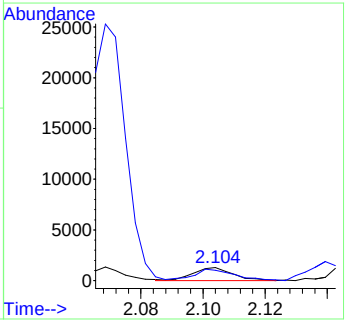


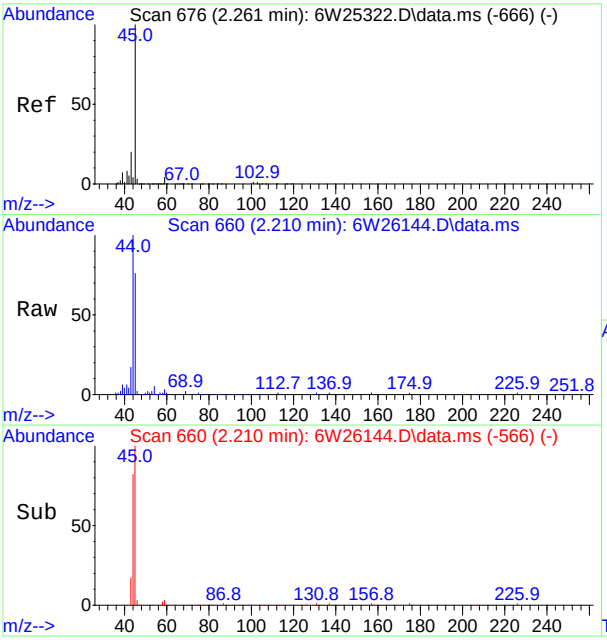




#18
ACROLEIN
Concen: 0.35 PPBV
RT: 2.104 min Scan# 627
Delta R.T. 0.004 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 56 Resp: 1143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 77.8 | 56.0 | 84.0 |

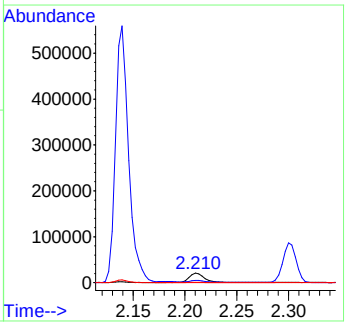


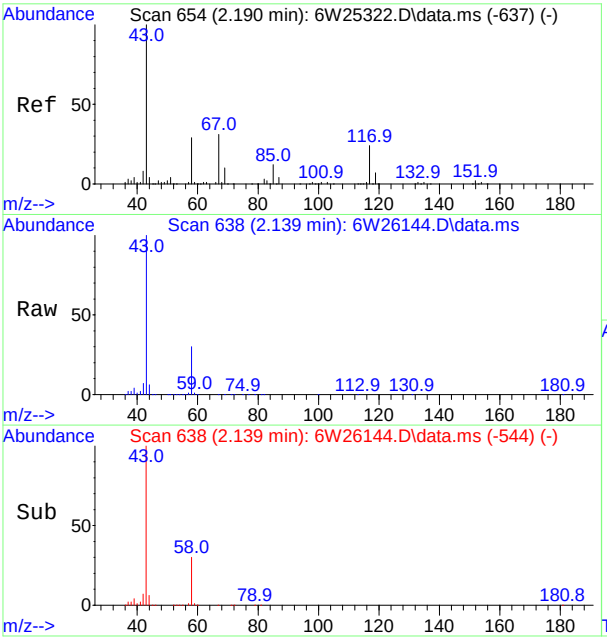



#22
ISOPROPYL ALCOHOL
Concen: 1.38 PPBV
RT: 2.210 min Scan# 660
Delta R.T. 0.004 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 45 Resp: 21437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 32.1 | 15.5 | 23.3# |
| 59 | 4.4 | 4.1 | 6.1 |

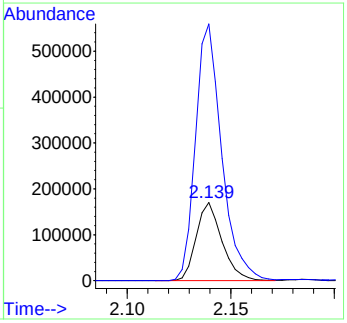


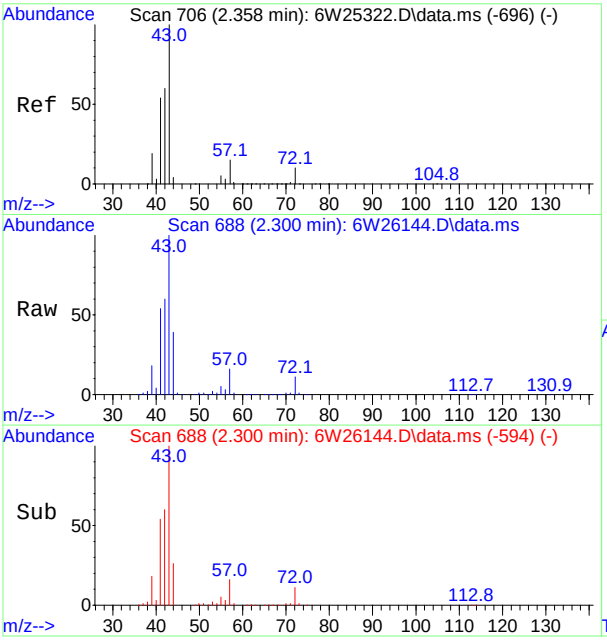




#23
ACETONE
Concen: 40.61 PPBV
RT: 2.139 min Scan# 638
Delta R.T. 0.004 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 58 Resp: 147068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 336.0 | 195.9 | 293.9# |

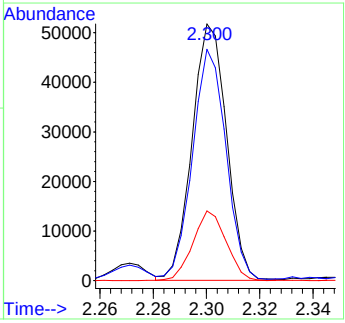


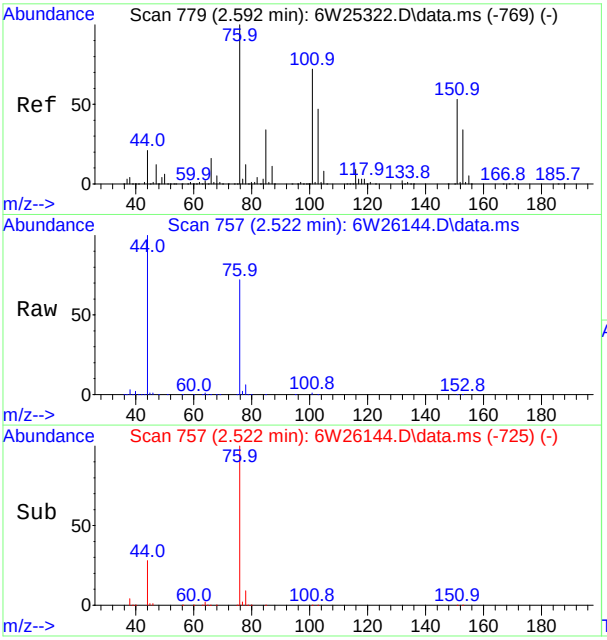



#24
PENTANE
Concen: 5.35 PPBV
RT: 2.300 min Scan# 688
Delta R.T. 0.004 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 42 Resp: 46637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 41 | 93.0 | 69.5 | 104.3 |
| 57 | 26.3 | 27.4 | 41.0# |

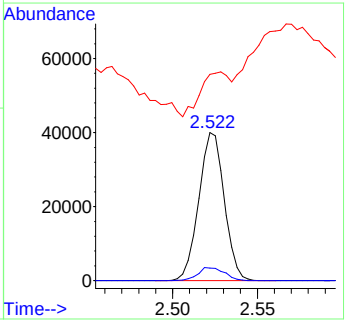


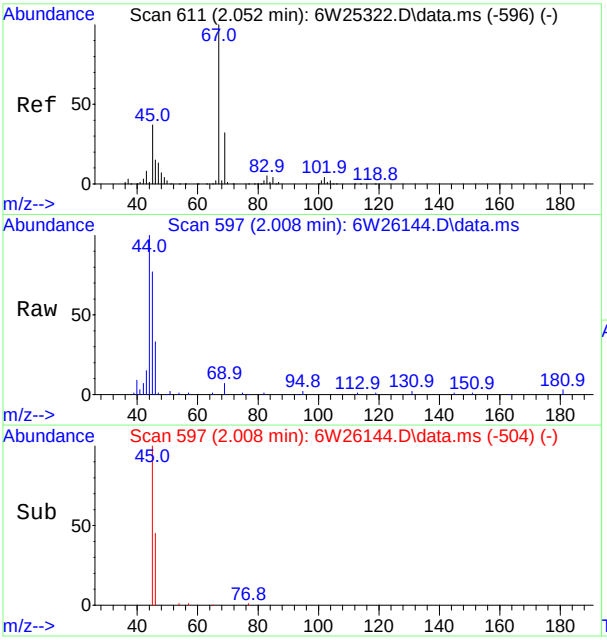




#27
CARBON DISULFIDE
Concen: 2.06 PPBV
RT: 2.522 min Scan# 757
Delta R.T. 0.004 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 76 Resp: 41852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.3 | 8.6 | 13.0 |
| 44 | 0.0 | 7.2 | 10.8# |

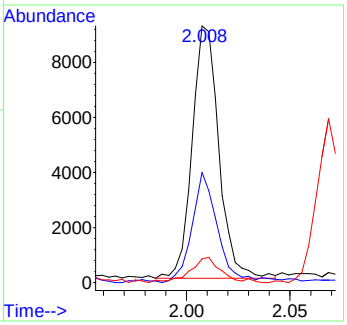


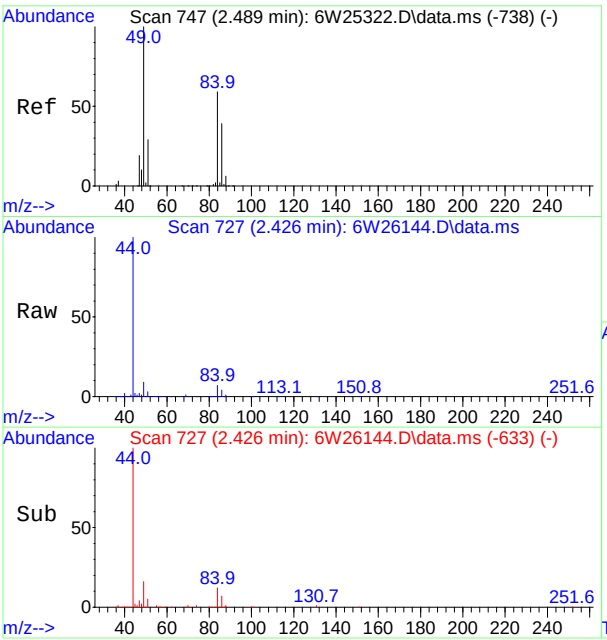



#28
ETHANOL
Concen: 2.12 PPBV
RT: 2.008 min Scan# 597
Delta R.T. 0.001 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 45 Resp: 8225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 44.7 | 34.1 | 51.1 |
| 42 | 12.0 | 6.1 | 9.1# |

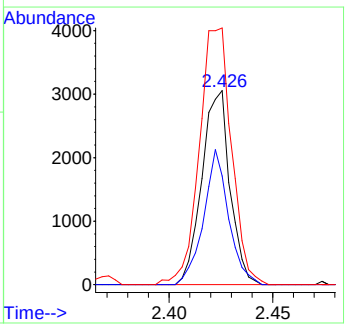


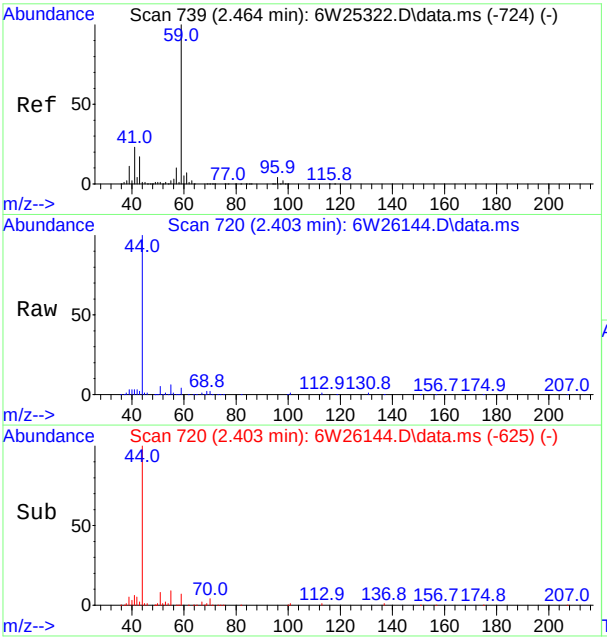




#31
METHYLENE CHLORIDE
Concen: 0.46 PPBV
RT: 2.426 min Scan# 727
Delta R.T. 0.004 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 84 Resp: 2885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 61.9 | 50.9 | 76.3 |
| 49 | 151.6 | 78.6 | 118.0# |

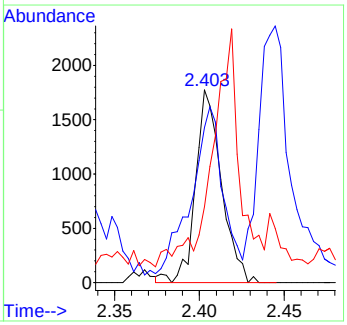


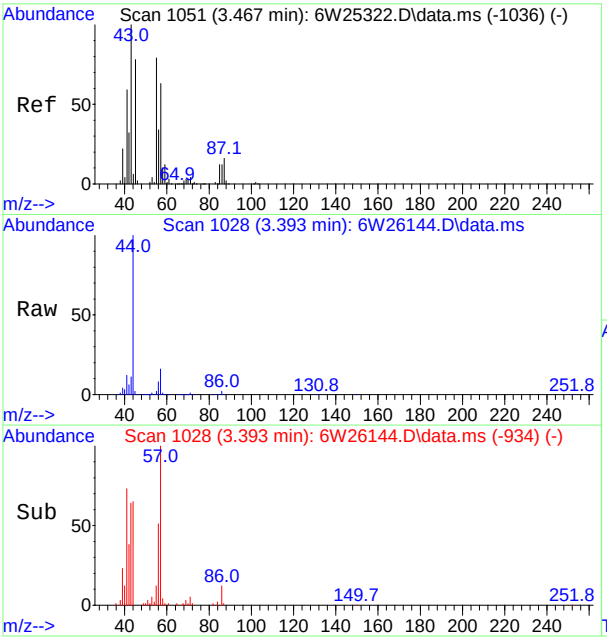



#35
TERTIARY BUTYL ALCOHOL
Concen: 0.13 PPBV
RT: 2.403 min Scan# 720
Delta R.T. 0.007 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 59 Resp: 1887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 41 | 107.0 | 29.9 | 44.9# |
| 43 | 127.5 | 8.9 | 13.3# |

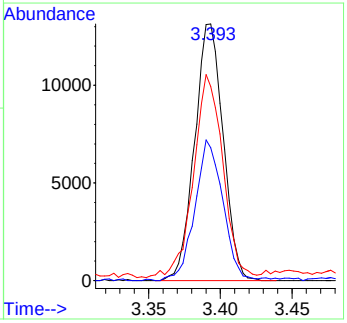


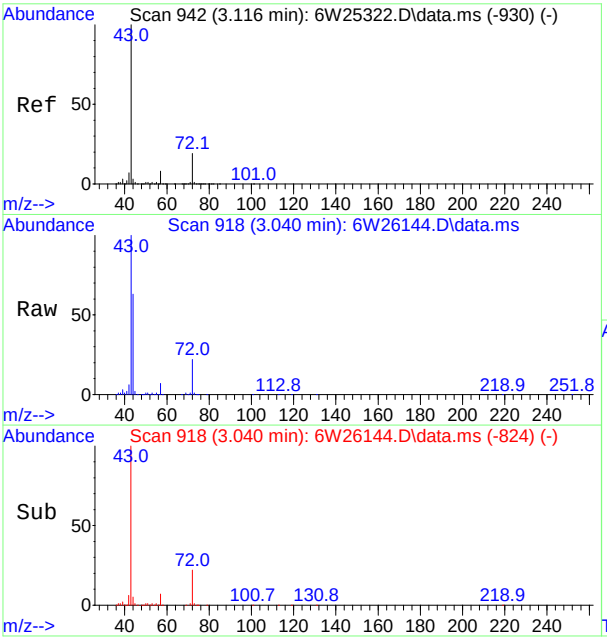




#38
HEXANE
Concen: 1.46 PPBV
RT: 3.393 min Scan# 1028
Delta R.T. 0.004 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 57 Resp: 18171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 56 | 53.6 | 42.0 | 63.0 |
| 41 | 81.2 | 66.2 | 99.2 |

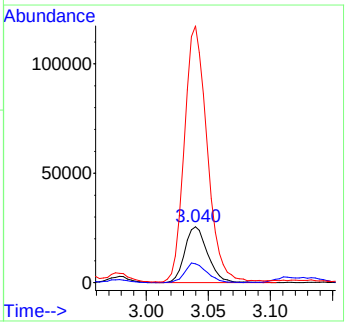


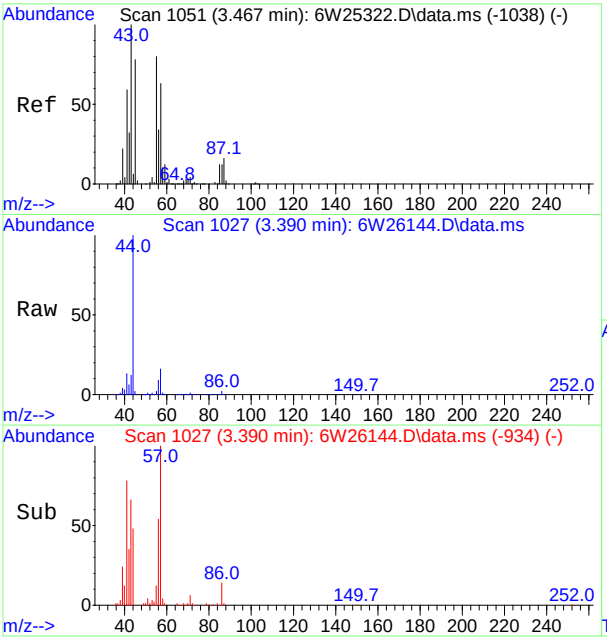



#41
METHYL ETHYL KETONE
Concen: 10.21 PPBV
RT: 3.040 min Scan# 918
Delta R.T. 0.004 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 72 Resp: 32657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 72 | 100 | | |
| 57 | 34.1 | 22.2 | 33.4# |
| 43 | 456.4 | 252.6 | 378.8# |

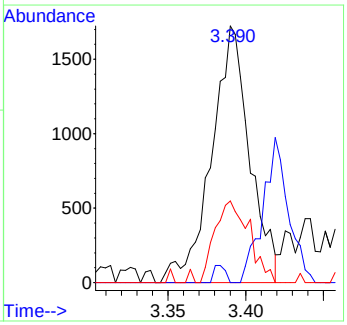


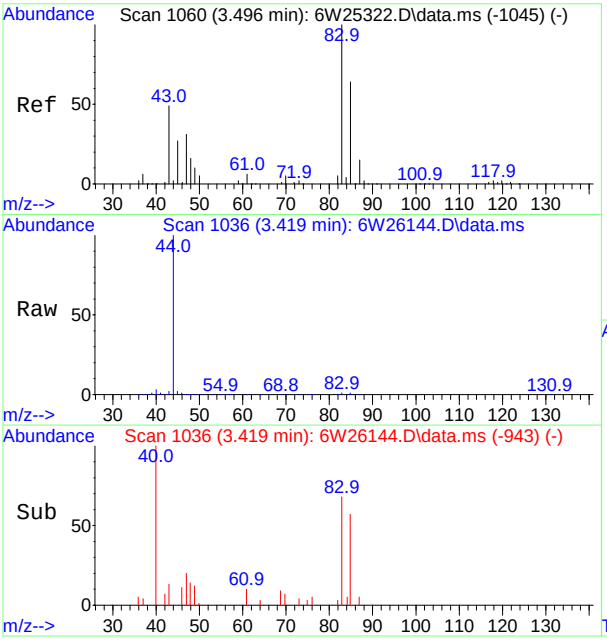




#45
METHYL ACRYLATE
Concen: 0.18 PPBV
RT: 3.390 min Scan# 1027
Delta R.T. 0.001 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 55 Resp: 2945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 55 | 100 | | |
| 85 | 0.0 | 0.0 | 0.0 |
| 58 | 29.2 | 11.7 | 17.5# |

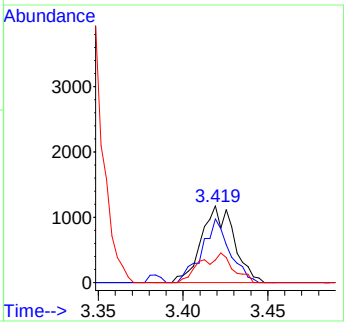


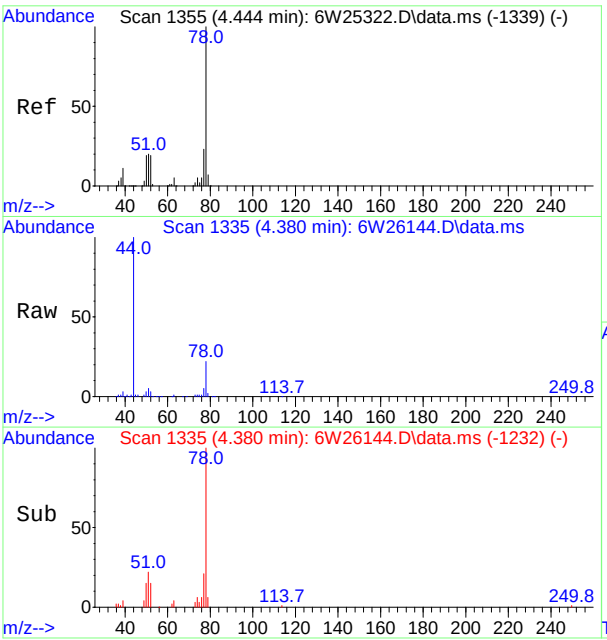



#46
CHLOROFORM
Concen: 0.11 PPBV
RT: 3.419 min Scan# 1036
Delta R.T. 0.001 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 83 Resp: 1576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 70.4 | 64.2 | 96.4 |
| 47 | 38.2 | 15.2 | 22.8# |

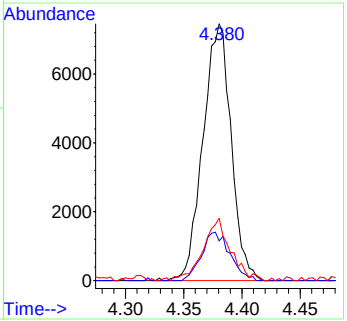


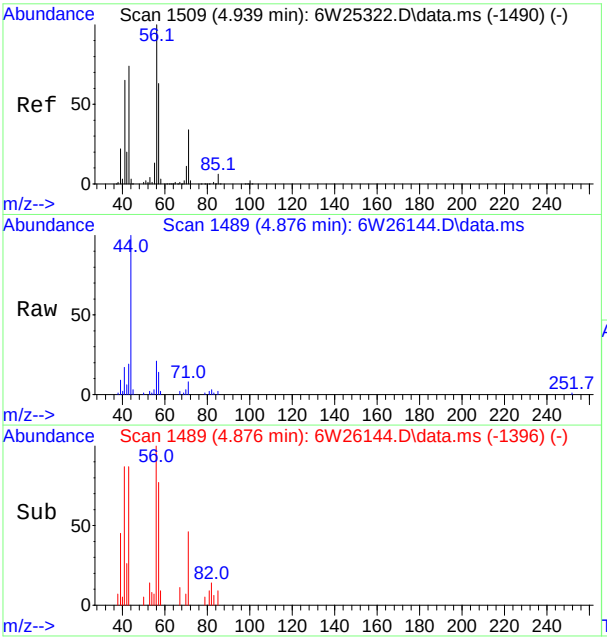




#51
BENZENE
Concen: 0.61 PPBV
RT: 4.380 min Scan# 1335
Delta R.T. 0.001 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 78 Resp: 12505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 52 | 19.0 | 0.0 | 34.0 |
| 51 | 24.0 | 0.0 | 33.5 |

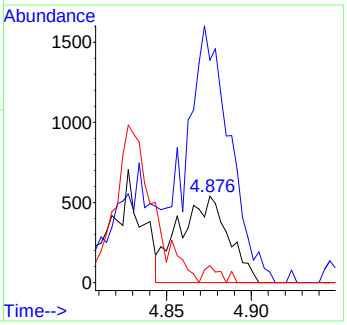


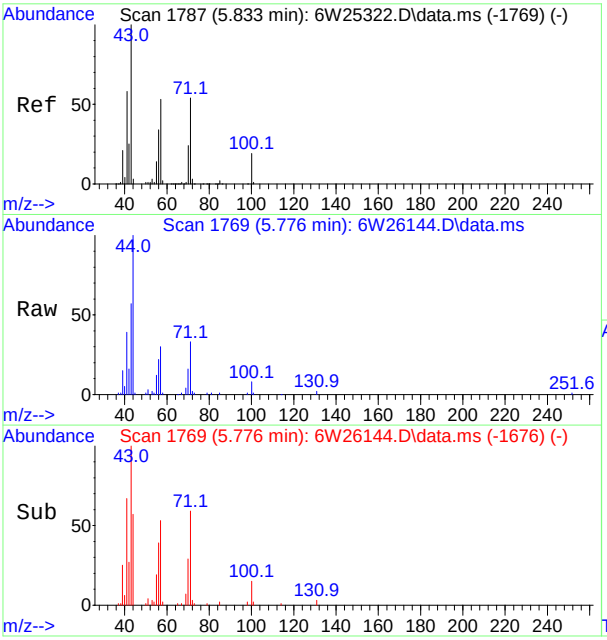



#54
2,3-DIMETHYLPENTANE
Concen: 0.24 PPBV
RT: 4.876 min Scan# 1489
Delta R.T. 0.001 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 71 Resp: 1083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 71 | 100 | | |
| 56 | 293.0 | 188.6 | 283.0# |
| 85 | 0.0 | 13.4 | 20.0# |

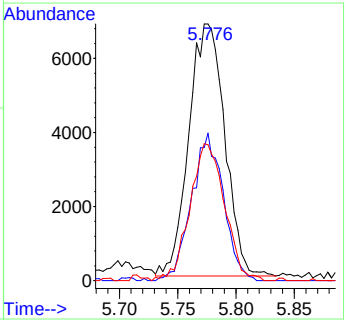


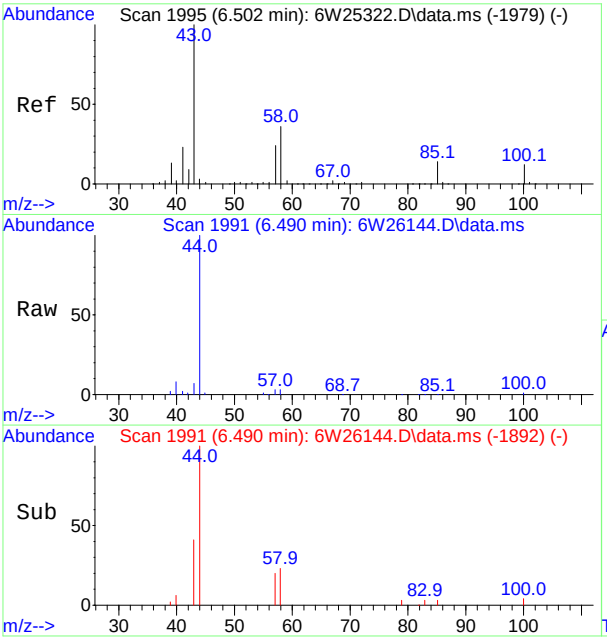




#62
HEPTANE
Concen: 1.17 PPBV
RT: 5.776 min Scan# 1769
Delta R.T. 0.001 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 43 Resp: 14630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 71 | 51.6 | 60.6 | 90.8# |
| 57 | 52.4 | 50.2 | 75.4 |

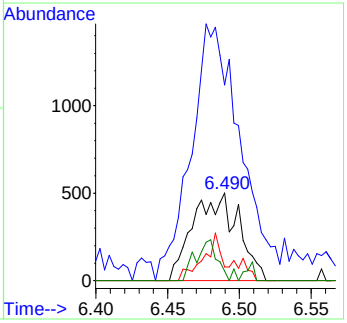


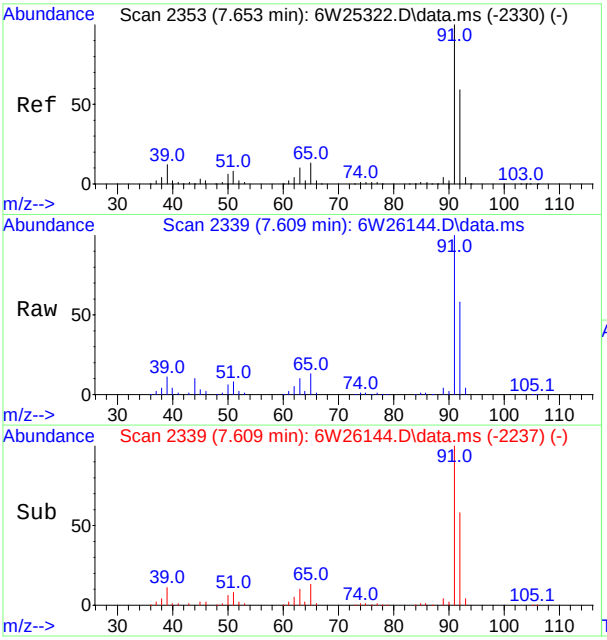



#64
METHYL ISOBUTYL KETONE
Concen: 0.21 PPBV
RT: 6.490 min Scan# 1991
Delta R.T. 0.020 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 58 Resp: 1107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 334.4 | 168.2 | 252.4# |
| 100 | 0.0 | 33.6 | 50.4# |
| 85 | 0.0 | 36.7 | 55.1# |

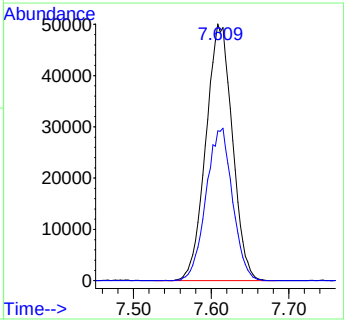


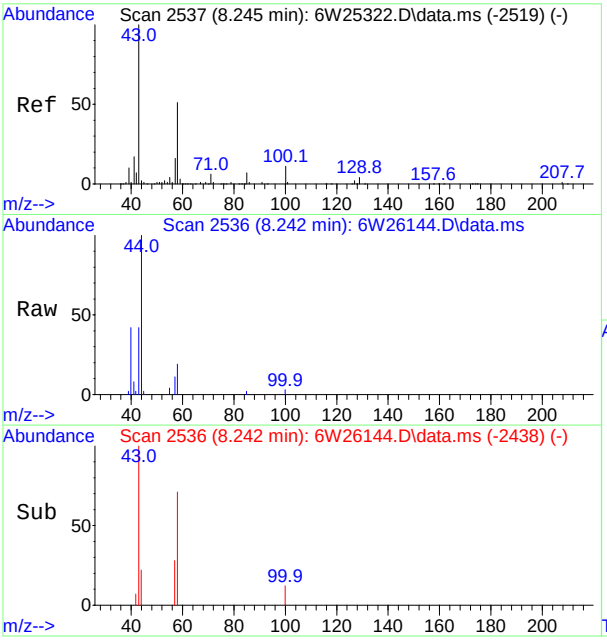




#66
TOLUENE
Concen: 6.07 PPBV
RT: 7.609 min Scan# 2339
Delta R.T. -0.003 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 91 Resp: 118616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.1 | 38.9 | 78.9 |

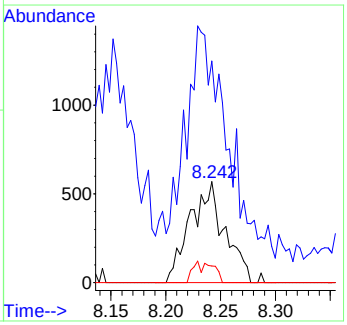


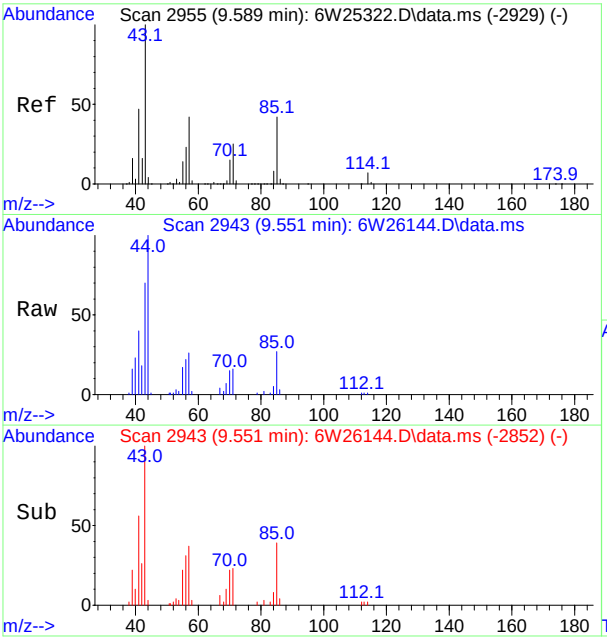



#70
2-HEXANONE
Concen: 0.19 PPBV
RT: 8.242 min Scan# 2536
Delta R.T. 0.017 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 58 Resp: 1258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 244.6 | 120.6 | 181.0# |
| 100 | 0.0 | 19.3 | 28.9# |

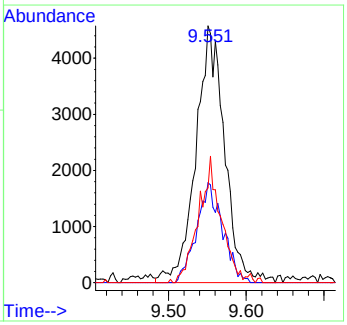


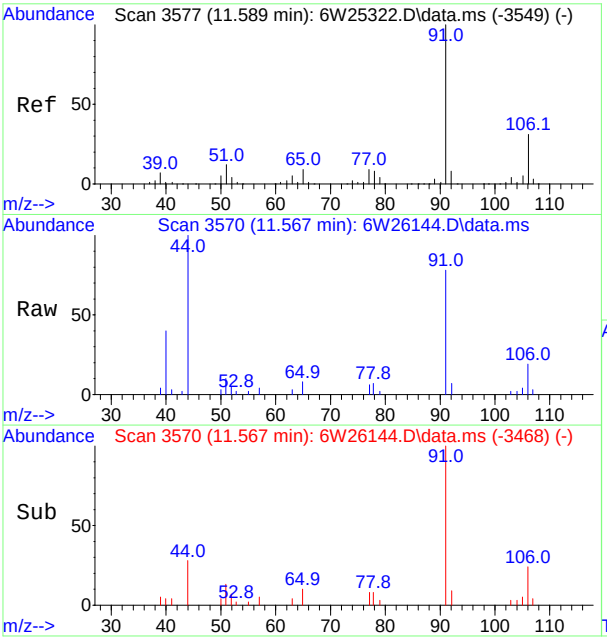




#75
OCTANE
Concen: 0.78 PPBV
RT: 9.551 min Scan# 2943
Delta R.T. -0.006 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 43 Resp: 11776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 85 | 35.1 | 49.8 | 74.8# |
| 57 | 39.0 | 38.8 | 58.2 |

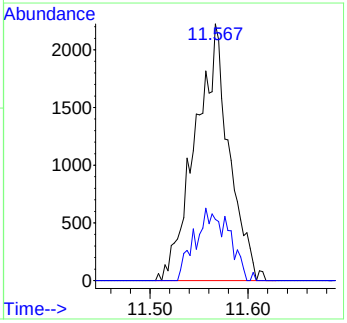


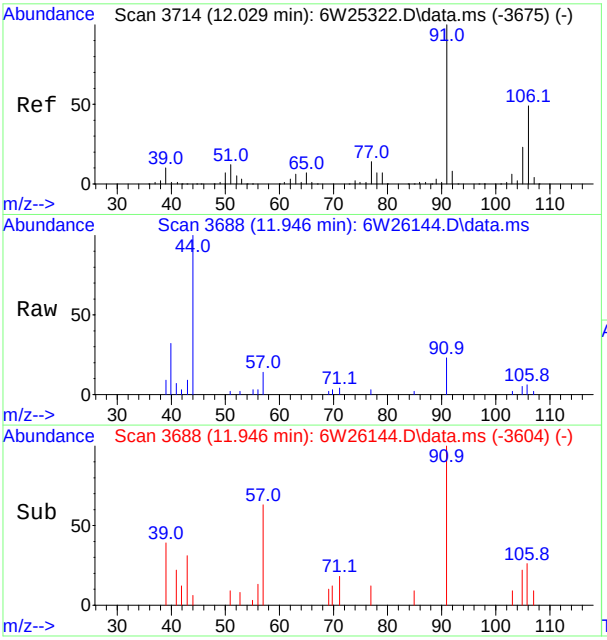



#79
ETHYLBENZENE
Concen: 0.21 PPBV
RT: 11.567 min Scan# 3570
Delta R.T. -0.003 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 91 Resp: 5318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 28.1 | 11.7 | 51.7 |

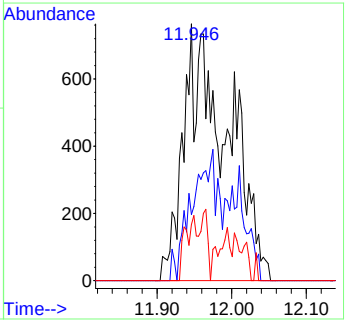


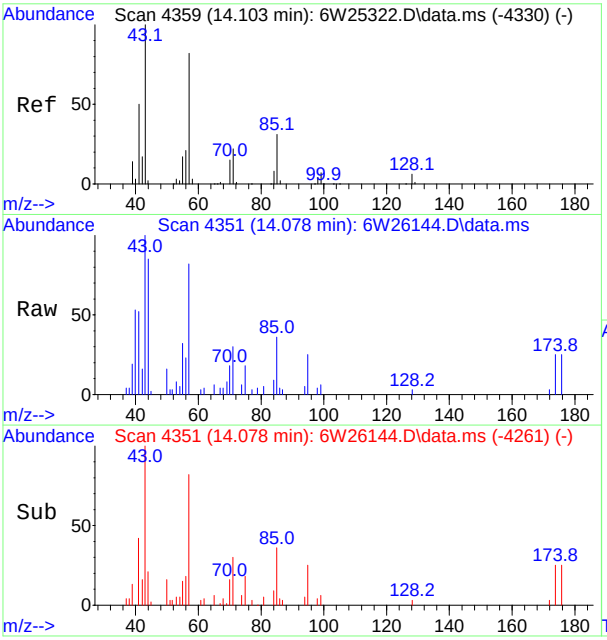




#80
M,P-XYLENE
Concen: 0.16 PPBV
RT: 11.946 min Scan# 3688
Delta R.T. -0.061 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 91 Resp: 3101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 0.0 | 31.5 | 71.5# |
| 105 | 0.0 | 3.6 | 43.6# |

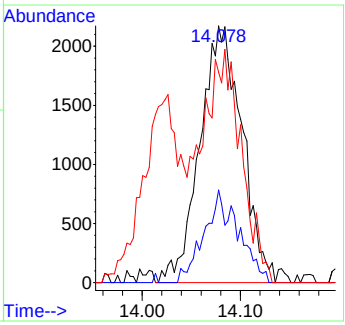





#83
NONANE
Concen: 0.37 PPBV
RT: 14.078 min Scan# 4351
Delta R.T. -0.009 min
Lab File: 6W26144.D
Acq: 29 Sep 2022 8:17 pm

Tgt Ion: 43 Resp: 6464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 85 | 29.4 | 37.8 | 56.6# |
| 57 | 85.8 | 87.0 | 130.4# |



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/03/22 20:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61697.D
Acq On : 30 Sep 2022 3:37 pm
Operator : thomash
Sample : jd52638-1dup
Misc : MS62567,V2w2737,400,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 03 14:57:55 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

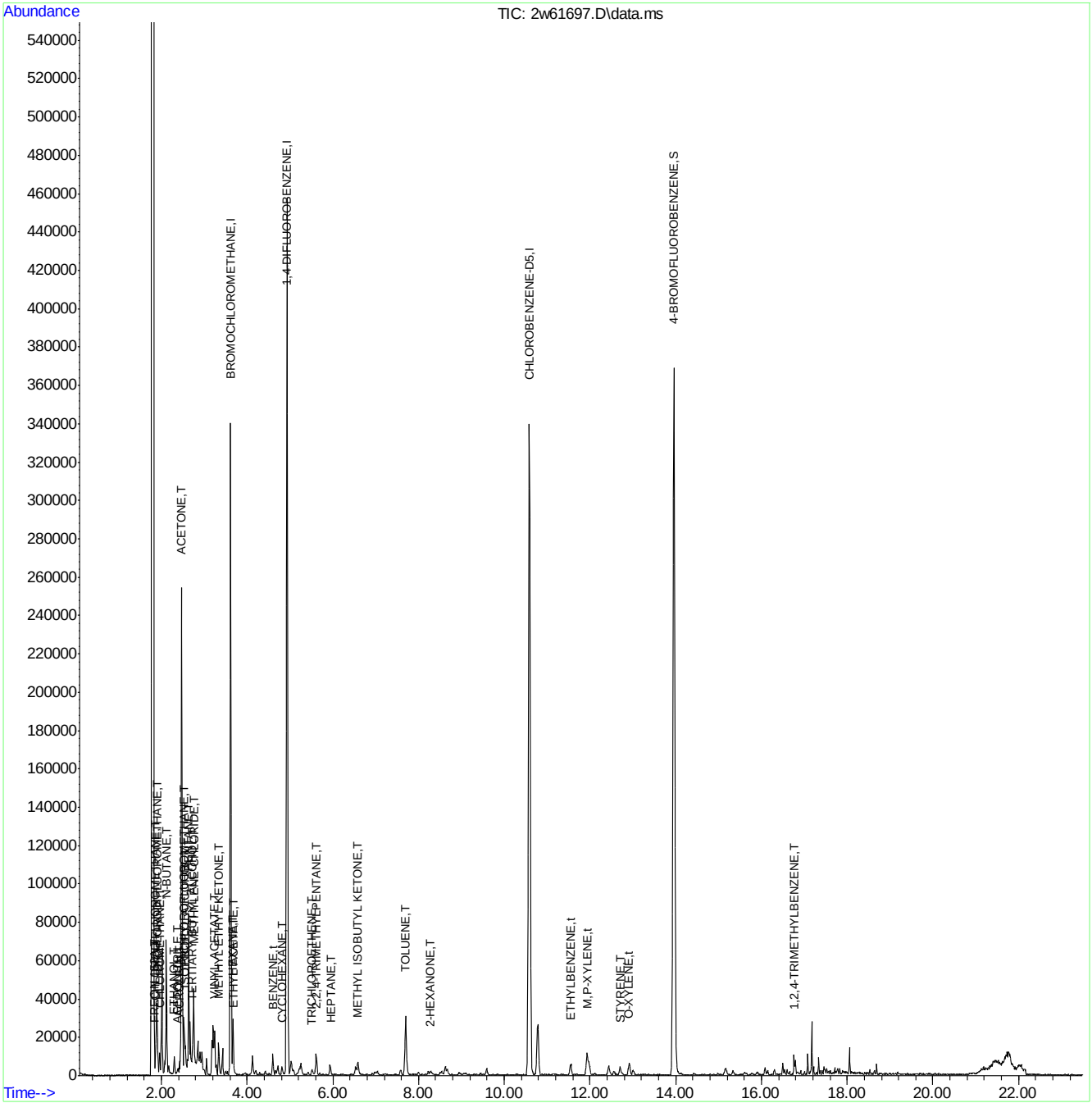
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.615 | 128 | 67402 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 351783 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 302699 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 217383 | 10.79 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.849 | 65 | 561 | 0.10 | PPBV | # | 100 |
| 4) CHLORODIFLUOROMETHANE | 1.869 | 67 | 1619 | 0.64 | PPBV | | 93 |
| 6) DICHLORODIFLUOROMETHANE | 1.904 | 85 | 14051 | 0.42 | PPBV | # | 94 |
| 10) CHLOROMETHANE | 1.959 | 52 | 2141 | 0.63 | PPBV | | 95 |
| 13) N-BUTANE | 2.113 | 43 | 40235 | 2.55 | PPBV | # | 95 |
| 17) ACETONITRILE | 2.383 | 41 | 1695 | 0.18 | PPBV | # | 64 |
| 18) ACROLEIN | 2.428 | 56 | 3942 | 0.95 | PPBV | | 95 |
| 21) TRICHLOROFLUOROMETHANE | 2.525 | 101 | 11476 | 0.33 | PPBV | | 94 |
| 22) ISOPROPYL ALCOHOL | 2.541 | 45 | 12181 | 0.44 | PPBV | # | 83 |
| 23) ACETONE | 2.467 | 58 | 73197 | 8.24 | PPBV | | 86 |
| 24) PENTANE | 2.634 | 42 | 16161 | 1.06 | PPBV | | 96 |
| 28) ETHANOL | 2.296 | 45 | 6992 | 1.28 | PPBV | | 99 |
| 31) METHYLENE CHLORIDE | 2.756 | 84 | 9860 | 0.66 | PPBV | | 89 |
| 35) TERTIARY BUTYL ALCOHOL | 2.727 | 59 | 6338 | 0.18 | PPBV | # | 46 |
| 38) HEXANE | 3.669 | 57 | 10562 | 0.54 | PPBV | # | 73 |
| 39) VINYL ACETATE | 3.226 | 86 | 3046 | 1.11 | PPBV | # | 95 |
| 41) METHYL ETHYL KETONE | 3.335 | 72 | 3929 | 0.79 | PPBV | | 93 |
| 44) ETHYL ACETATE | 3.682 | 61 | 493m | 0.12 | PPBV | | |
| 51) BENZENE | 4.602 | 78 | 6867 | 0.20 | PPBV | | 98 |
| 53) CYCLOHEXANE | 4.817 | 84 | 1322 | 0.09 | PPBV | # | 80 |
| 55) TRICHLOROETHENE | 5.515 | 95 | 738 | 0.05 | PPBV | | 96 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.611 | 57 | 10331 | 0.17 | PPBV | | 98 |
| 62) HEPTANE | 5.946 | 43 | 2322 | 0.12 | PPBV | | 94 |
| 64) METHYL ISOBUTYL KETONE | 6.582 | 58 | 2902 | 0.30 | PPBV | # | 91 |
| 66) TOLUENE | 7.698 | 91 | 28271 | 0.67 | PPBV | | 100 |
| 70) 2-HEXANONE | 8.277 | 58 | 571 | 0.35 | PPBV | # | 1 |
| 79) ETHYLBENZENE | 11.560 | 91 | 7274 | 0.14 | PPBV | | 97 |
| 80) M,P-XYLENE | 11.929 | 91 | 16033 | 0.41 | PPBV | # | 61 |
| 81) O-XYLENE | 12.910 | 91 | 6771 | 0.17 | PPBV | # | 80 |
| 82) STYRENE | 12.701 | 104 | 3289 | 0.11 | PPBV | | 95 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.762 | 105 | 4887 | 0.09 | PPBV | # | 32 |

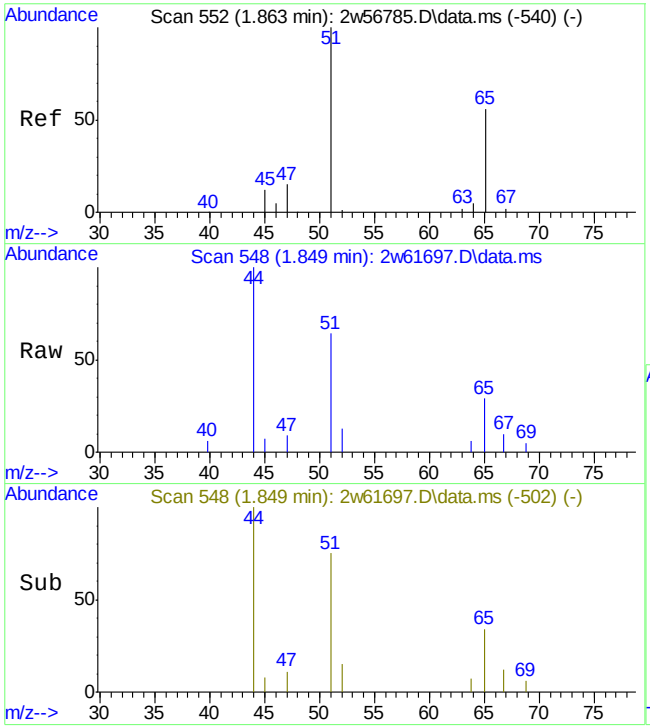
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61697.D
Acq On : 30 Sep 2022 3:37 pm
Operator : thomash
Sample : jd52638-1dup
Misc : MS62567,V2w2737,400,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 03 14:57:55 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

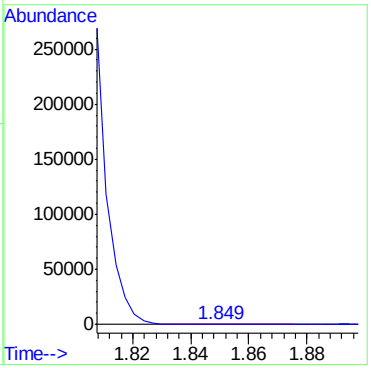


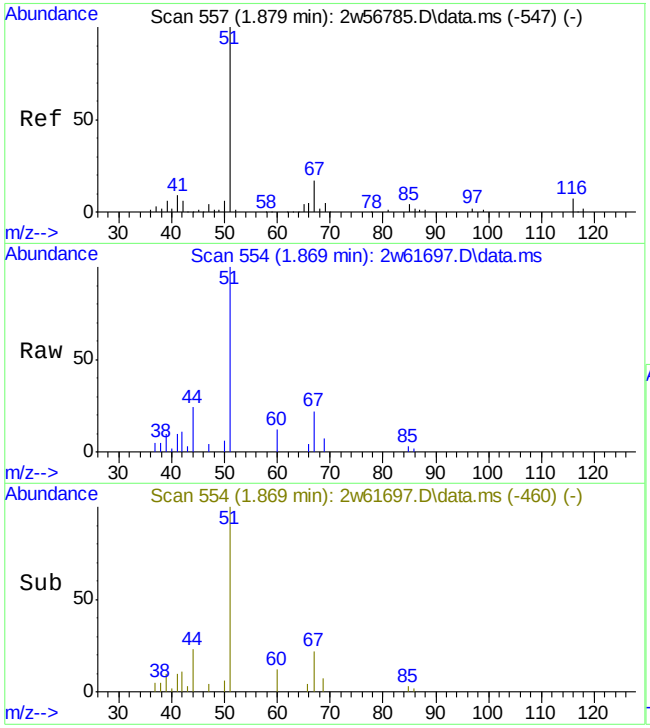



#3
FREON 152A
Concen: 0.10 PPBV
RT: 1.849 min Scan# 548
Delta R.T. -0.001 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 65 Resp: 561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 45 | 0.0 | 0.0 | 0.0 |

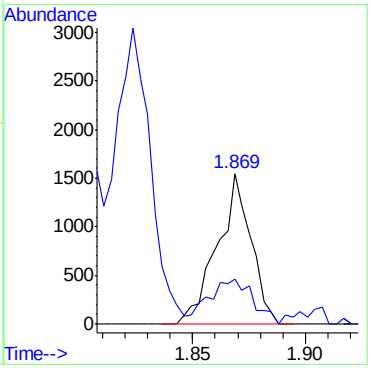


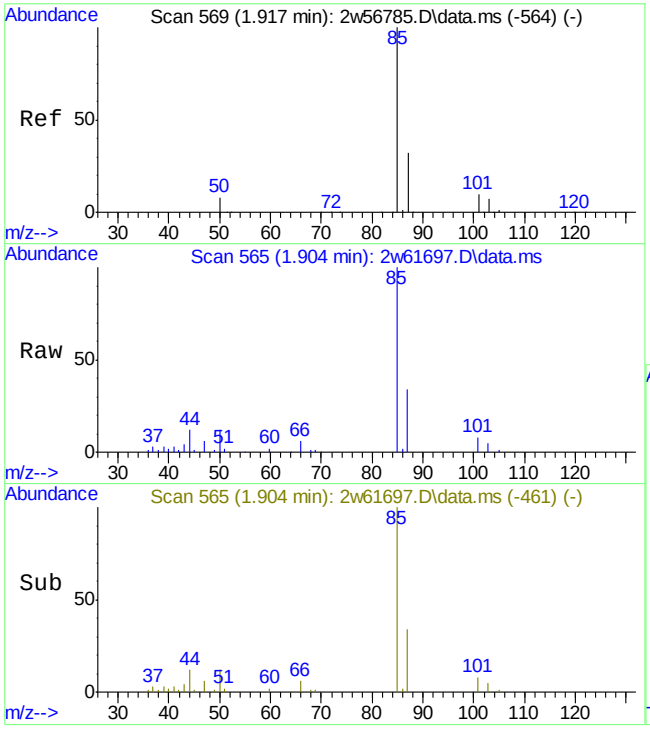




#4
CHLORODIFLUOROMETHANE
Concen: 0.64 PPBV
RT: 1.869 min Scan# 554
Delta R.T. 0.003 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 67 Resp: 1619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 67 | 100 | | |
| 69 | 38.1 | 27.4 | 41.0 |

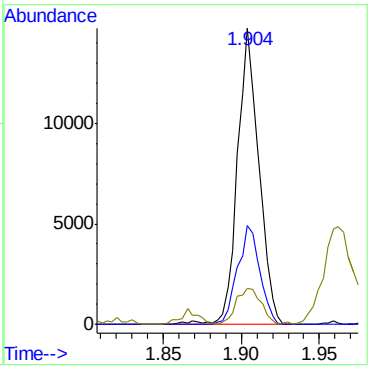


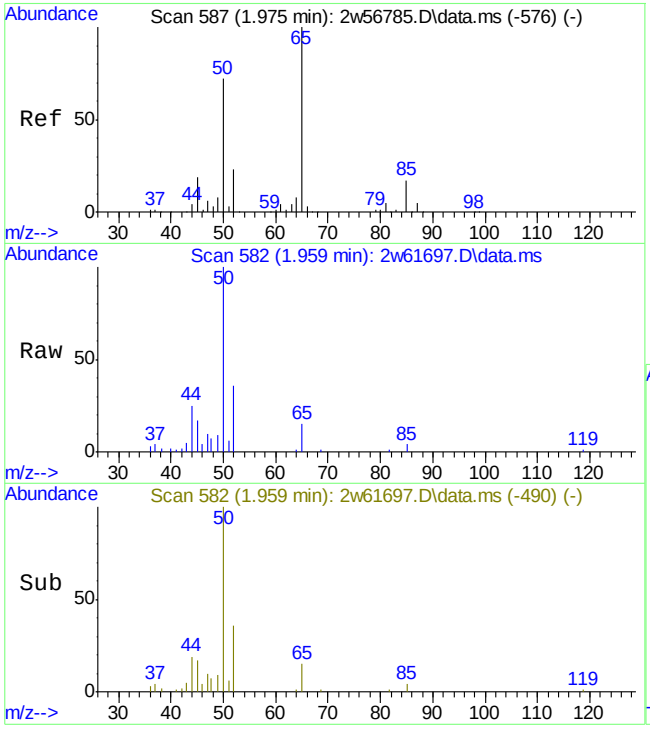



#6
DICHLORODIFLUOROMETHANE
Concen: 0.42 PPBV
RT: 1.904 min Scan# 565
Delta R.T. 0.003 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 85 Resp: 14051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.8 | 25.9 | 38.9 |
| 50 | 14.2 | 14.6 | 21.8# |

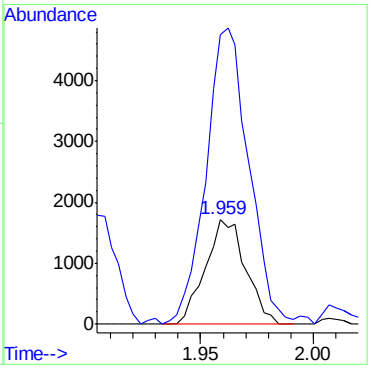


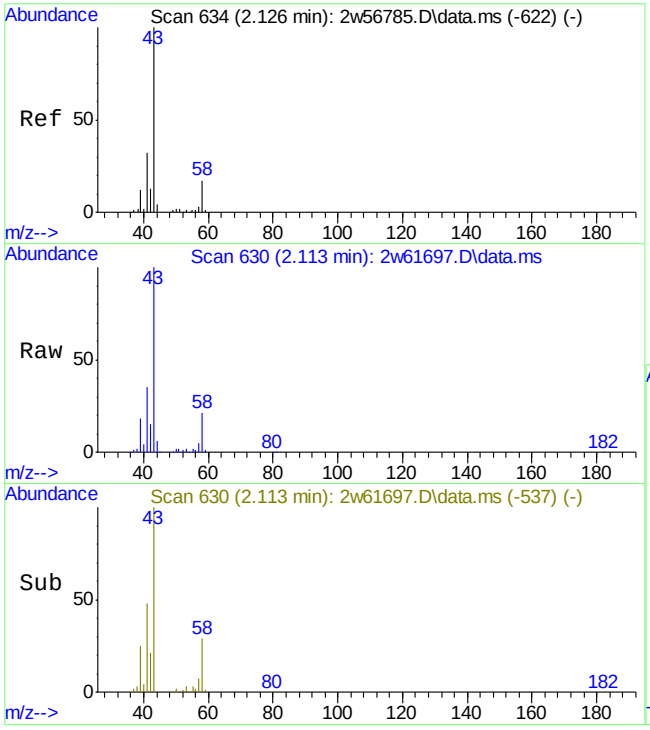




#10
CHLOROMETHANE
Concen: 0.63 PPBV
RT: 1.959 min Scan# 582
Delta R.T. -0.004 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 52 Resp: 2141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 52 | 100 | | |
| 50 | 301.0 | 249.6 | 374.4 |

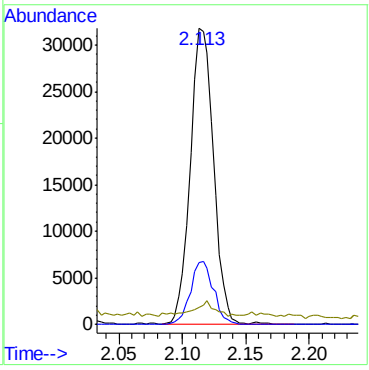


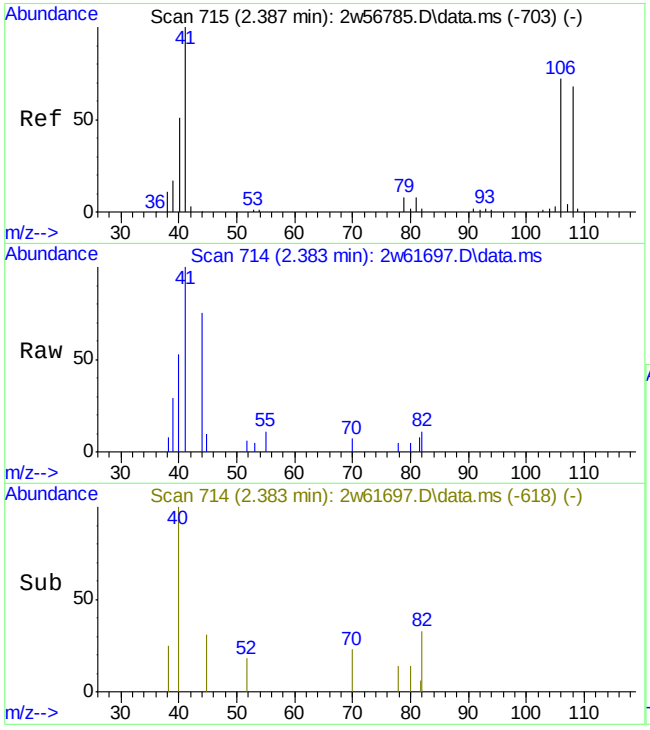



#13
N-BUTANE
Concen: 2.55 PPBV
RT: 2.113 min Scan# 630
Delta R.T. -0.000 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 43 Resp: 40235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 20.9 | 15.0 | 22.4 |
| 44 | 5.3 | 3.4 | 5.2# |

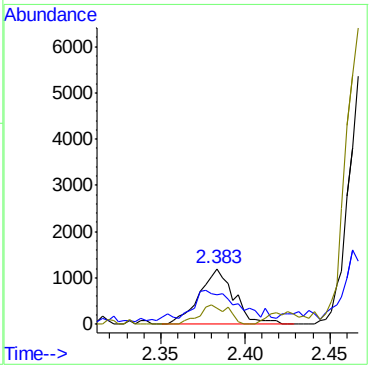


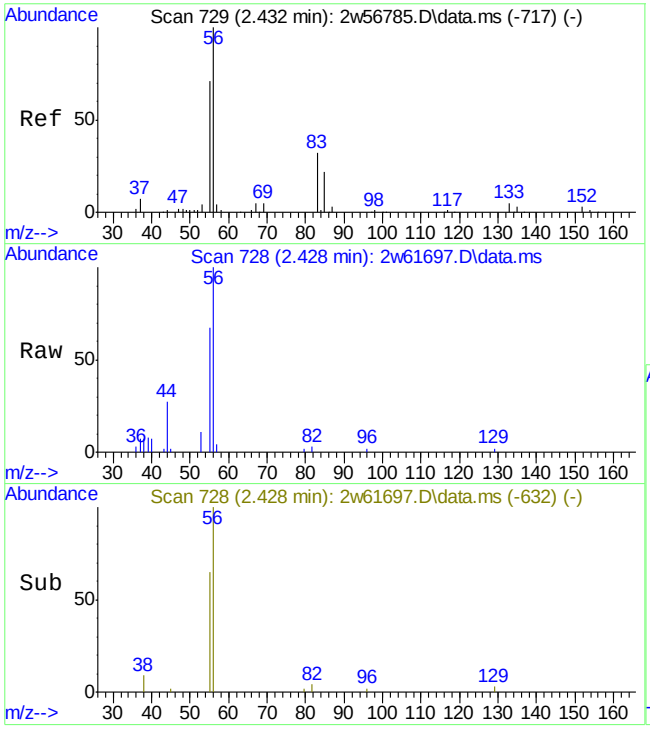




#17
ACETONITRILE
Concen: 0.18 PPBV
RT: 2.383 min Scan# 714
Delta R.T. 0.009 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 41 Resp: 1695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 40 | 77.3 | 42.9 | 64.3# |
| 39 | 0.0 | 15.5 | 23.3# |

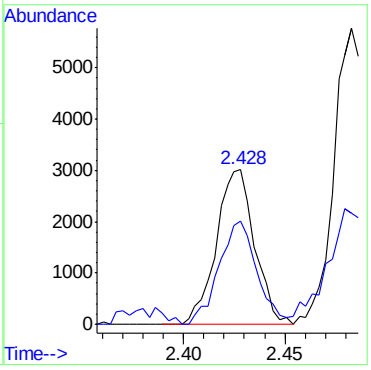


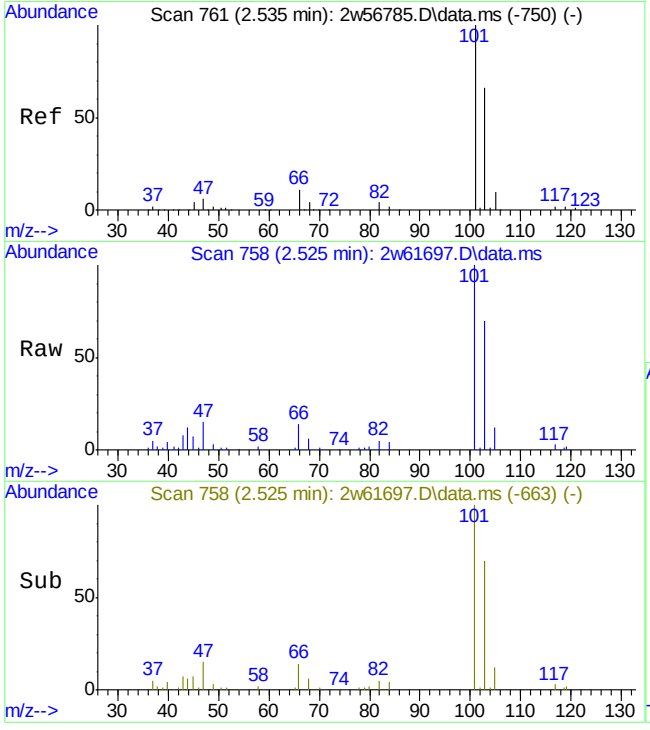



#18
ACROLEIN
Concen: 0.95 PPBV
RT: 2.428 min Scan# 728
Delta R.T. 0.009 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 56 Resp: 3942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 67.0 | 56.9 | 85.3 |

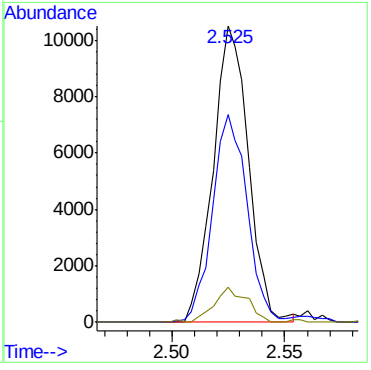


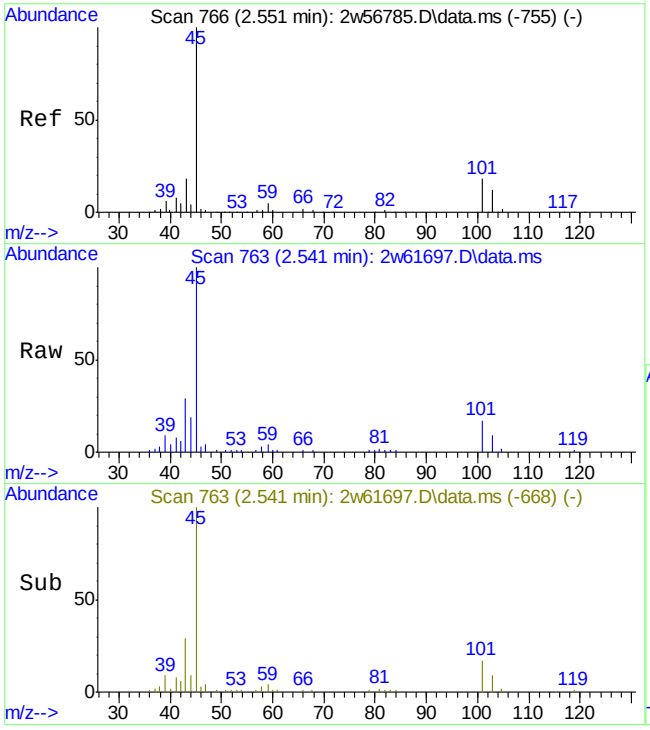




#21
TRICHLOROFLUOROMETHANE
Concen: 0.33 PPBV
RT: 2.525 min Scan# 758
Delta R.T. 0.006 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion:101 Resp: 11476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 70.4 | 52.1 | 78.1 |
| 105 | 11.2 | 8.3 | 12.5 |

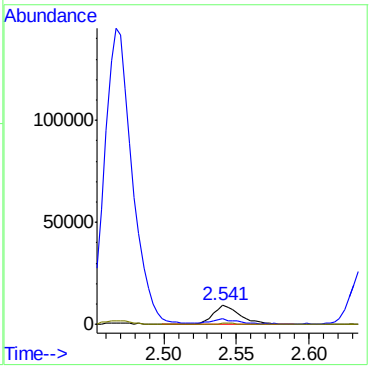


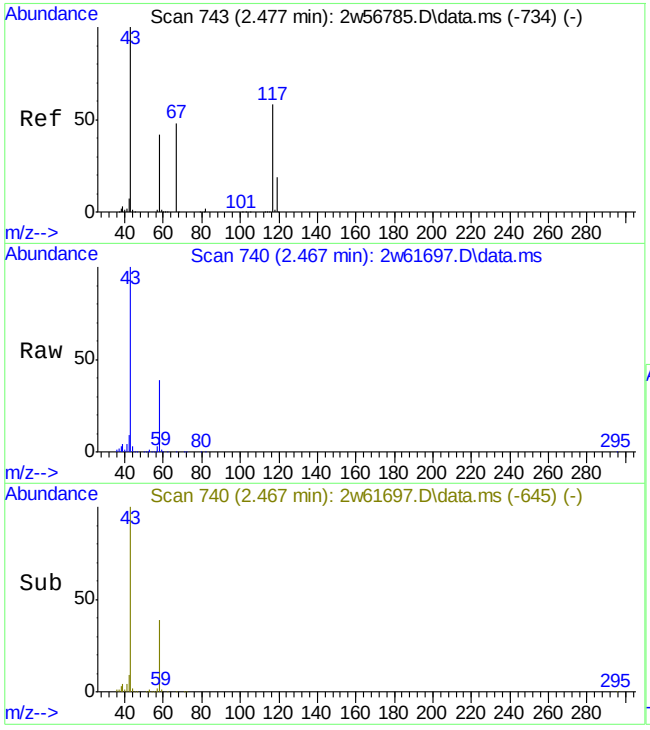



#22
ISOPROPYL ALCOHOL
Concen: 0.44 PPBV
RT: 2.541 min Scan# 763
Delta R.T. 0.006 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 45 Resp: 12181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 31.7 | 17.8 | 26.6# |
| 59 | 4.6 | 3.6 | 5.4 |

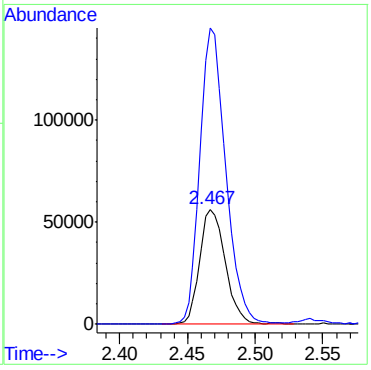


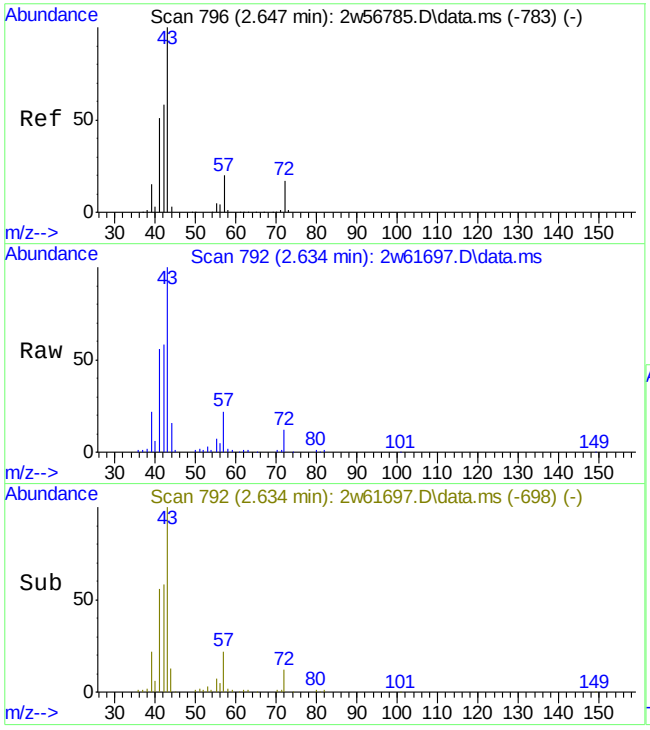




#23
ACETONE
Concen: 8.24 PPBV
RT: 2.467 min Scan# 740
Delta R.T. 0.006 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 58 Resp: 73197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 261.2 | 229.9 | 344.9 |

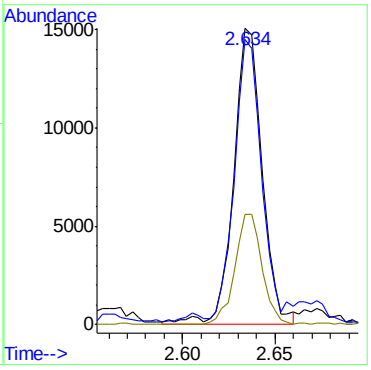


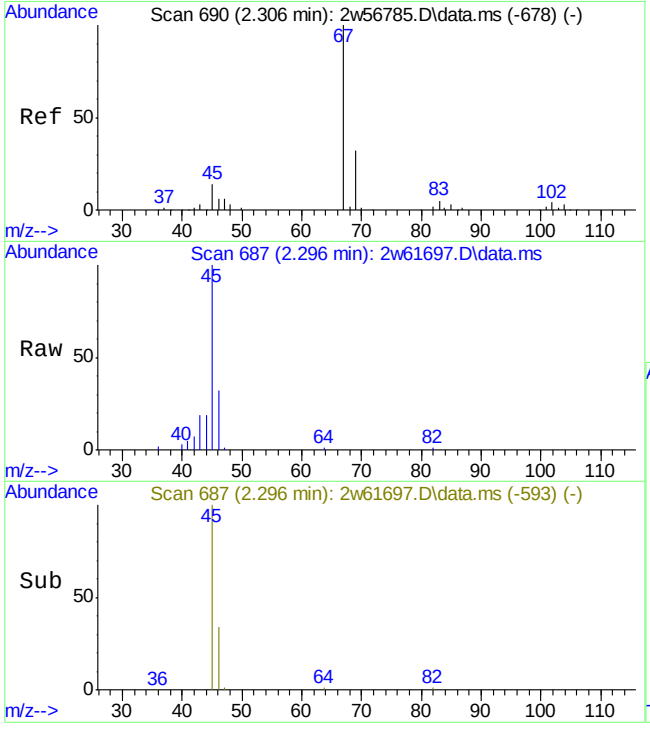



#24
PENTANE
Concen: 1.06 PPBV
RT: 2.634 min Scan# 792
Delta R.T. 0.003 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 42 Resp: 16161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 41 | 97.4 | 75.7 | 113.5 |
| 57 | 35.6 | 25.0 | 37.6 |

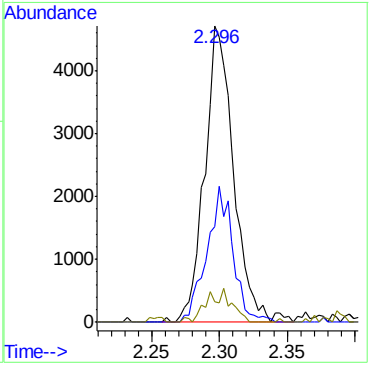


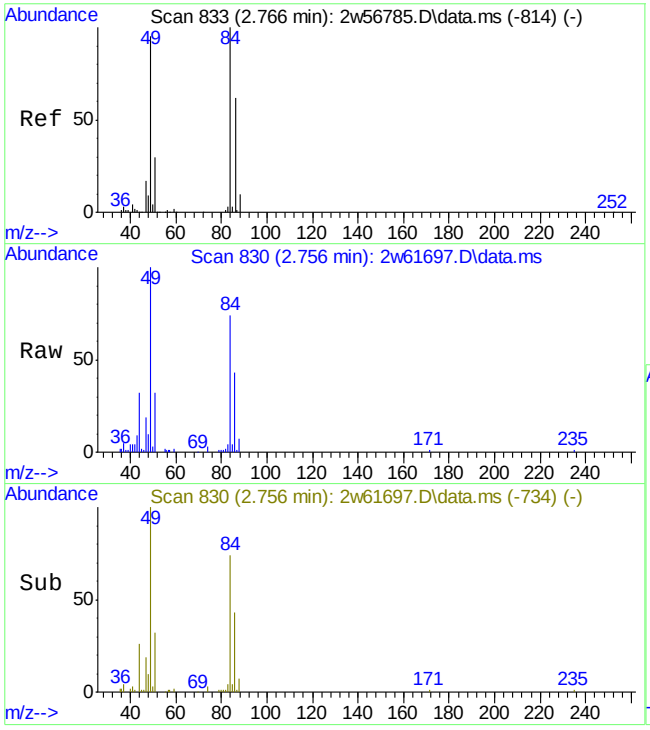




#28
ETHANOL
Concen: 1.28 PPBV
RT: 2.296 min Scan# 687
Delta R.T. 0.003 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 45 Resp: 6992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 41.4 | 33.4 | 50.2 |
| 42 | 9.5 | 7.4 | 11.2 |

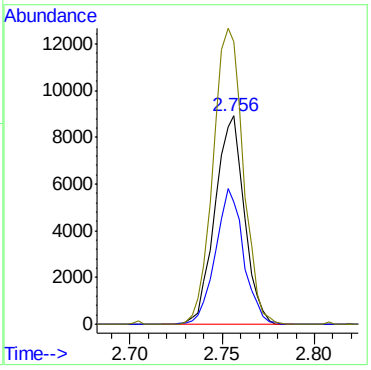


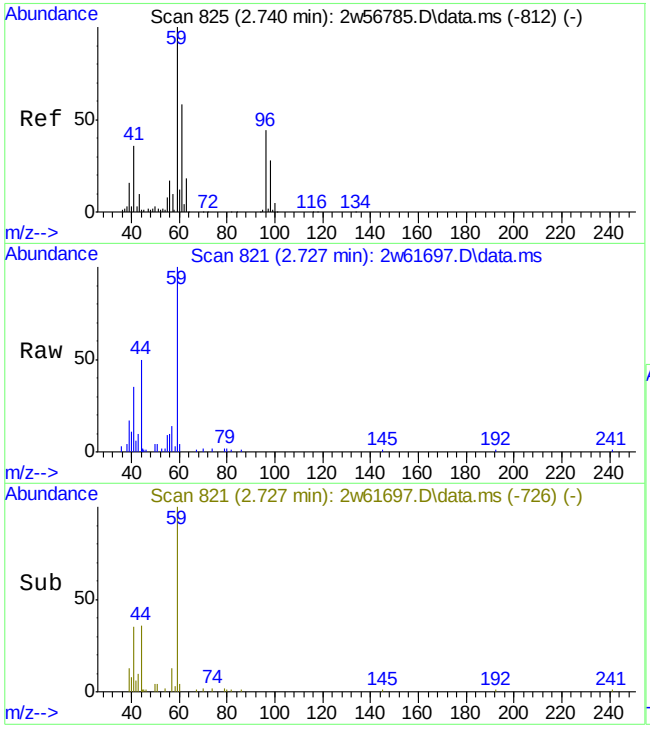



#31
METHYLENE CHLORIDE
Concen: 0.66 PPBV
RT: 2.756 min Scan# 830
Delta R.T. 0.009 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 84 Resp: 9860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 86 | 62.5 | 51.3 | 76.9 |
| 49 | 146.3 | 133.3 | 199.9 |

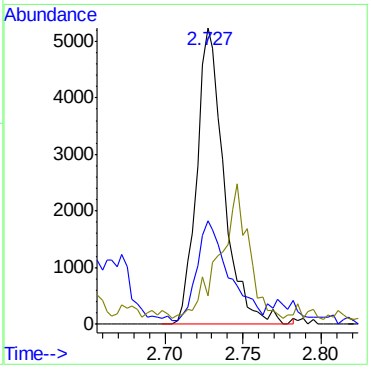


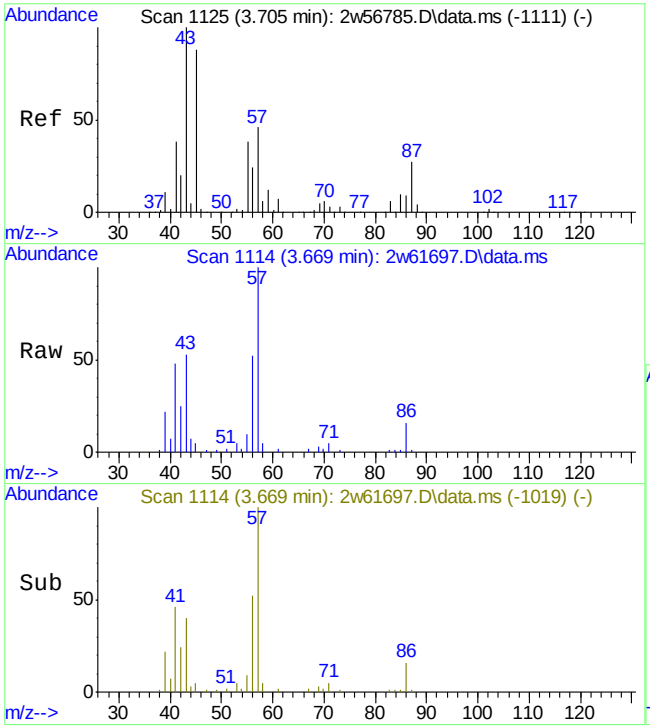




#35
TERTIARY BUTYL ALCOHOL
Concen: 0.18 PPBV
RT: 2.727 min Scan# 821
Delta R.T. 0.006 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 59 Resp: 6338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 41 | 40.3 | 18.3 | 27.5# |
| 43 | 48.5 | 11.8 | 17.6# |

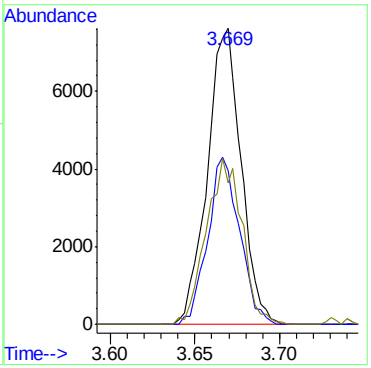


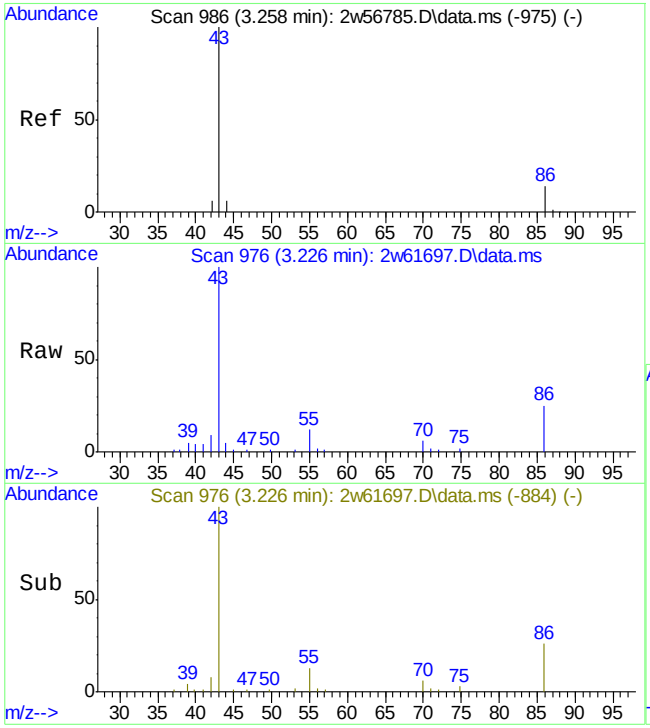



#38
HEXANE
Concen: 0.54 PPBV
RT: 3.669 min Scan# 1114
Delta R.T. 0.006 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 57 Resp: 10562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 56 | 53.5 | 42.2 | 63.2 |
| 41 | 59.0 | 79.4 | 119.2# |

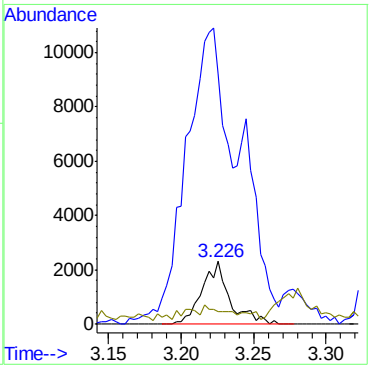


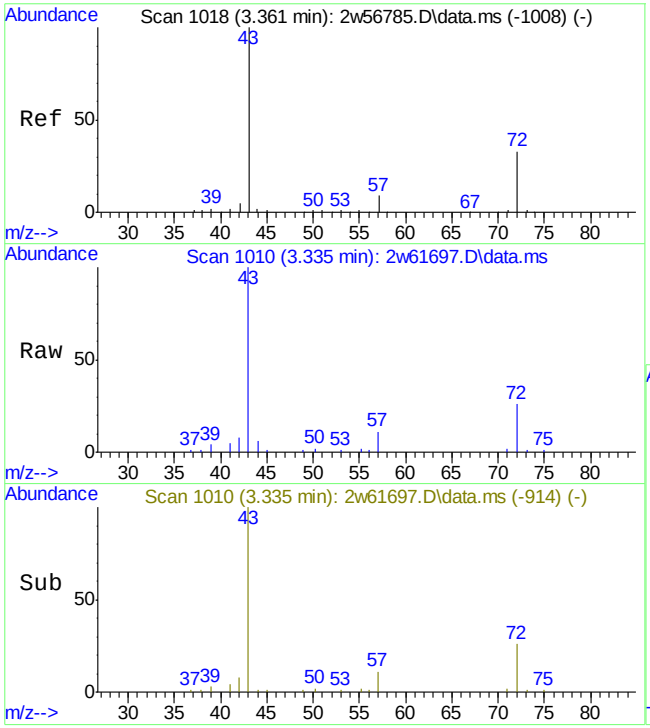




#39
VINYL ACETATE
Concen: 1.11 PPBV
RT: 3.226 min Scan# 976
Delta R.T. -0.004 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 86 Resp: 3046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 86 | 100 | | |
| 43 | 975.9 | 766.9 | 1150.3 |
| 44 | 35.3 | 41.8 | 62.6# |

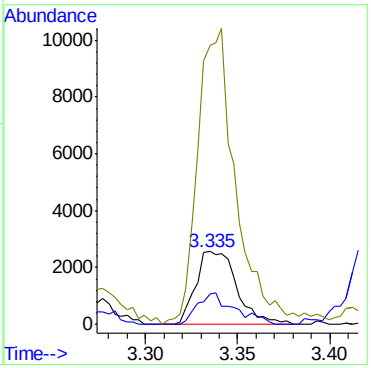


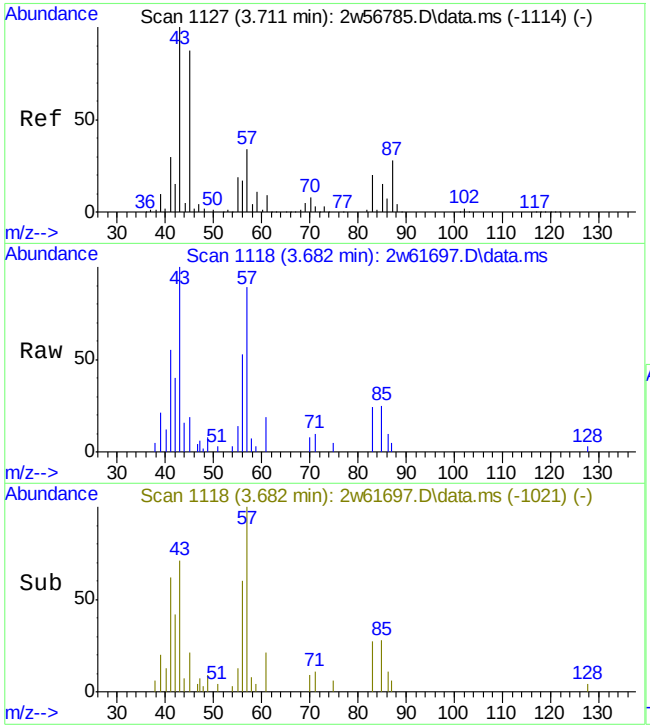



#41
METHYL ETHYL KETONE
Concen: 0.79 PPBV
RT: 3.335 min Scan# 1010
Delta R.T. 0.009 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 72 Resp: 3929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 72 | 100 | | |
| 57 | 39.3 | 29.1 | 43.7 |
| 43 | 385.4 | 321.0 | 481.4 |

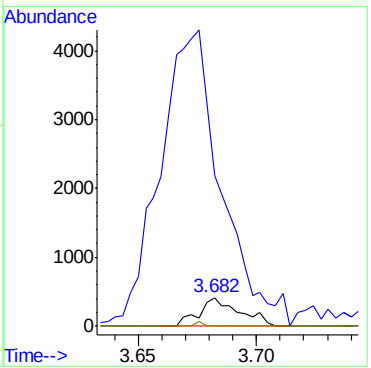


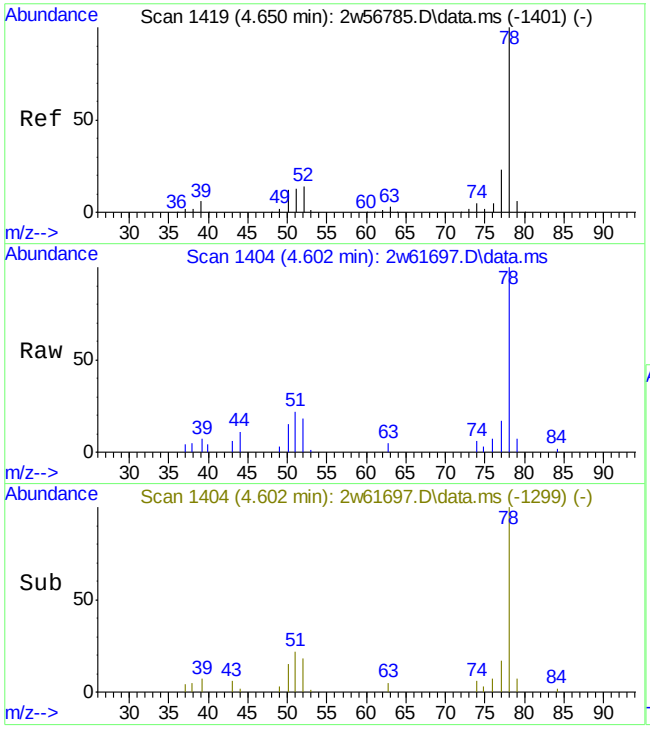




#44
ETHYL ACETATE
Concen: 0.12 PPBV m
RT: 3.682 min Scan# 1118
Delta R.T. 0.013 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 61 Resp: 493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 43 | 0.0 | 1054.2 | 1581.2# |
| 88 | 0.0 | 34.4 | 51.6# |

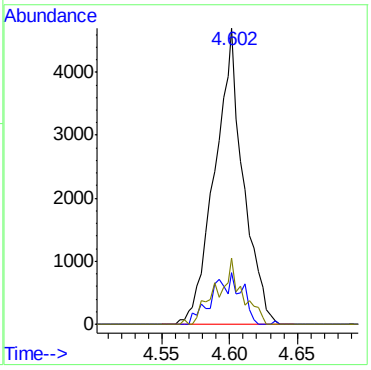


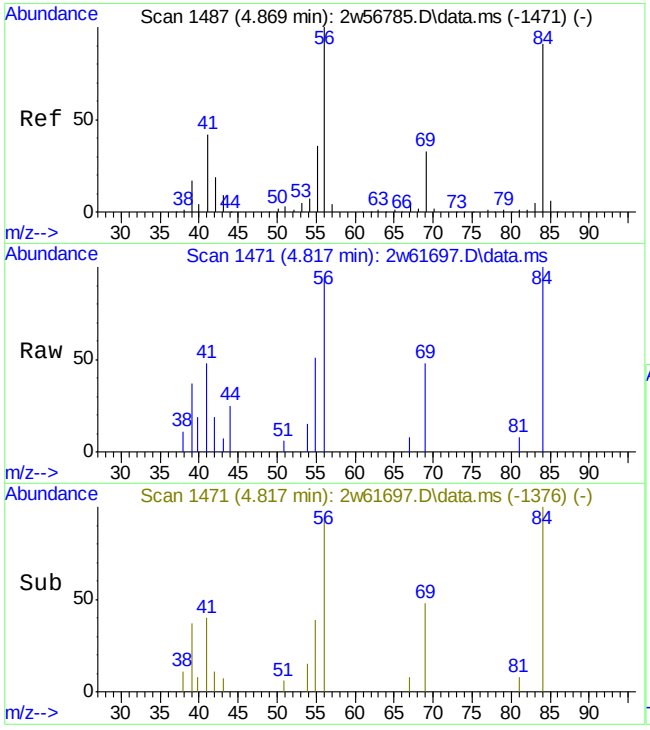



#51
BENZENE
Concen: 0.20 PPBV
RT: 4.602 min Scan# 1404
Delta R.T. 0.006 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 78 Resp: 6867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 52 | 17.9 | 0.0 | 37.3 |
| 51 | 20.1 | 0.0 | 38.9 |

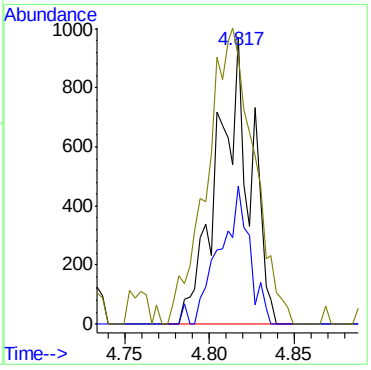


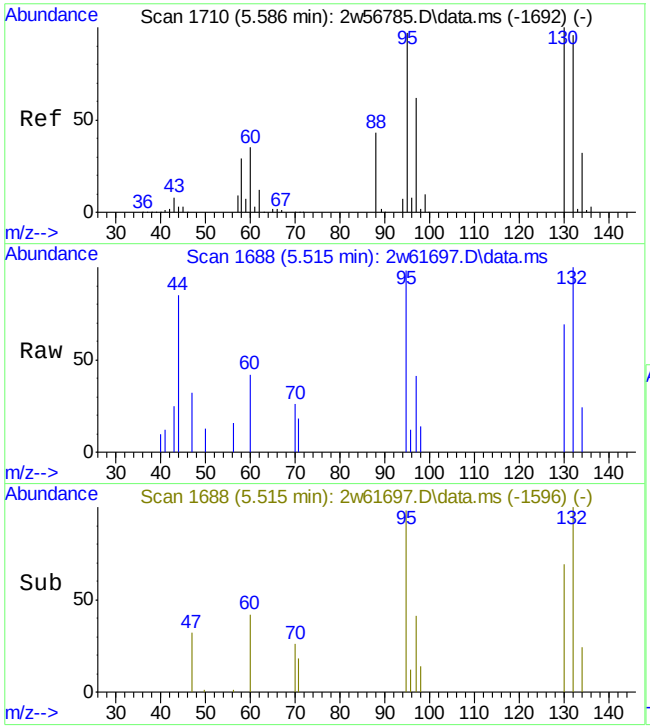




#53
CYCLOHEXANE
Concen: 0.09 PPBV
RT: 4.817 min Scan# 1471
Delta R.T. 0.006 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 84 Resp: 1322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 69 | 43.2 | 26.0 | 39.0# |
| 56 | 145.8 | 98.7 | 148.1 |

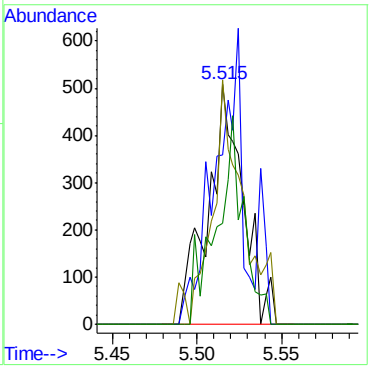


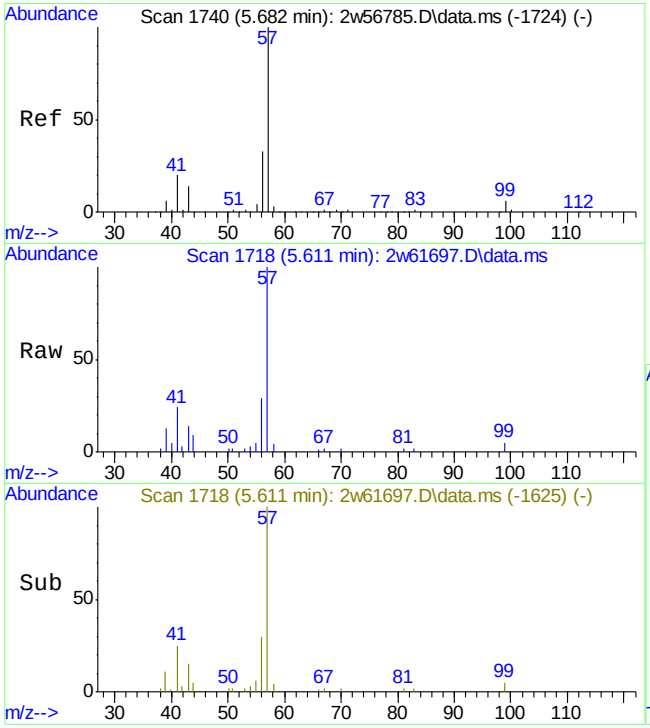



#55
TRICHLOROETHENE
Concen: 0.05 PPBV
RT: 5.515 min Scan# 1688
Delta R.T. -0.004 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 95 Resp: 738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 102.8 | 82.8 | 124.2 |
| 132 | 90.4 | 79.3 | 118.9 |
| 97 | 67.9 | 52.0 | 78.0 |

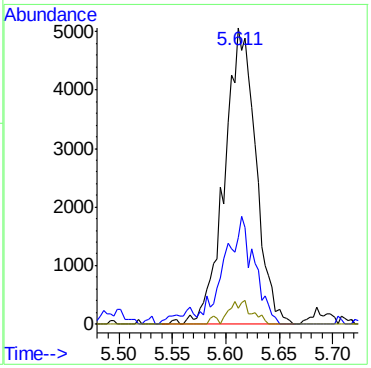


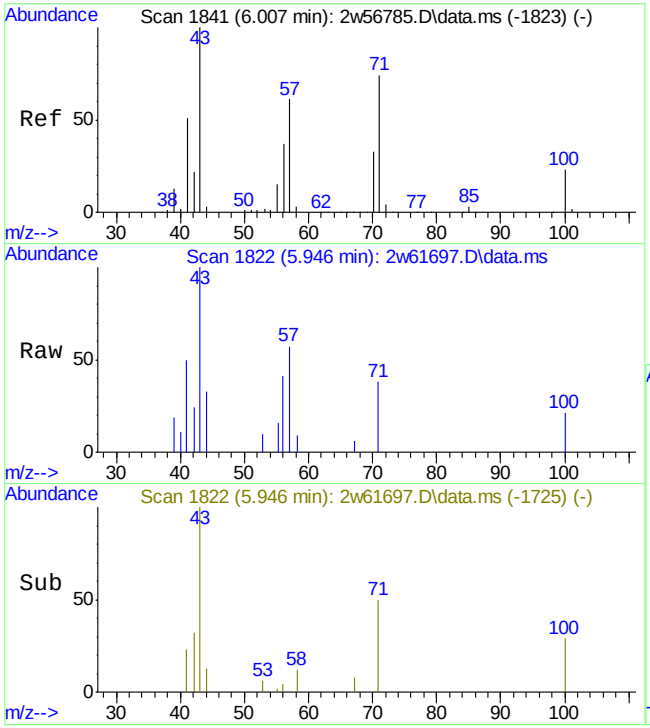




#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.17 PPBV
RT: 5.611 min Scan# 1718
Delta R.T. -0.000 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 57 Resp: 10331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 56 | 34.6 | 26.5 | 39.7 |
| 99 | 6.1 | 4.6 | 7.0 |

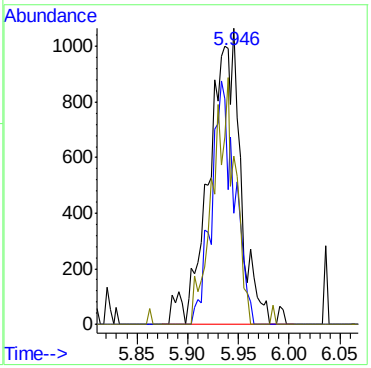


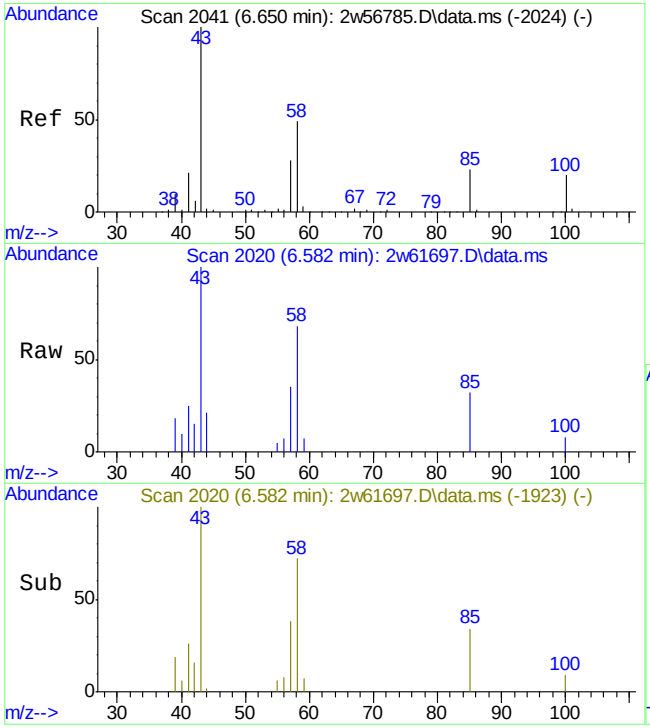



#62
HEPTANE
Concen: 0.12 PPBV
RT: 5.946 min Scan# 1822
Delta R.T. 0.013 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 43 Resp: 2322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 71 | 59.6 | 51.8 | 77.8 |
| 57 | 59.4 | 51.0 | 76.4 |

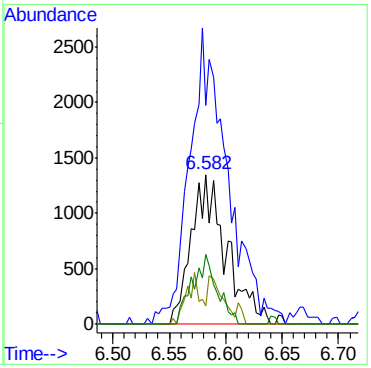


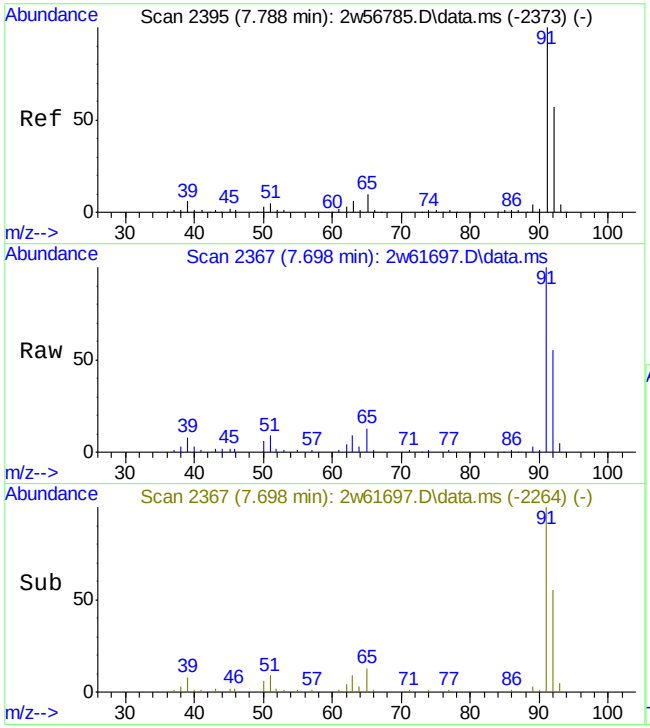




#64
METHYL ISOBUTYL KETONE
Concen: 0.30 PPBV
RT: 6.582 min Scan# 2020
Delta R.T. 0.013 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 58 Resp: 2902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 213.6 | 181.0 | 271.4 |
| 100 | 28.7 | 29.7 | 44.5# |
| 85 | 32.7 | 32.3 | 48.5 |

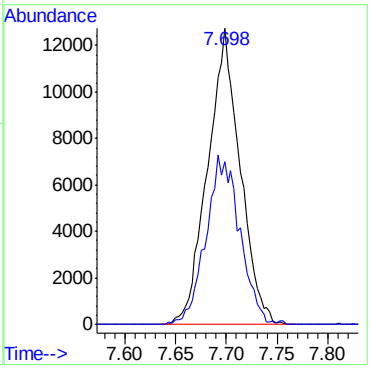


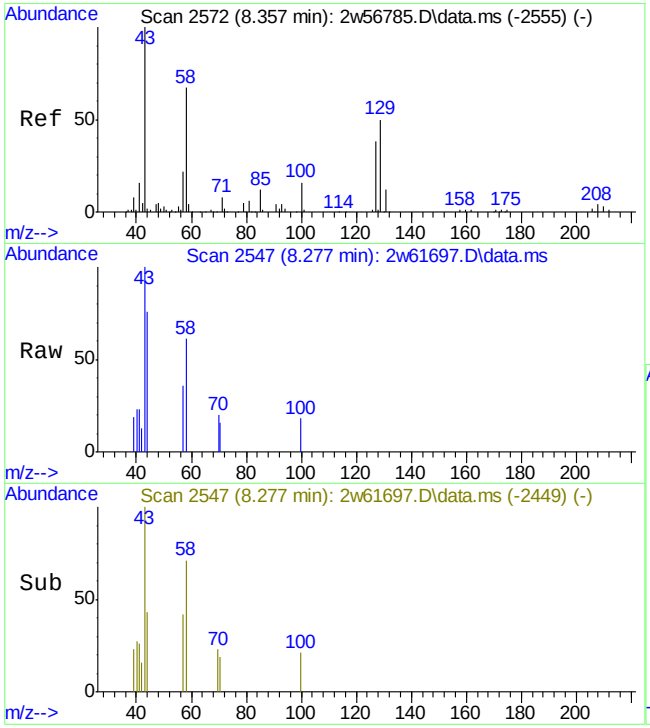



#66
TOLUENE
Concen: 0.67 PPBV
RT: 7.698 min Scan# 2367
Delta R.T. -0.000 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 91 Resp: 28271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.4 | 39.3 | 79.3 |

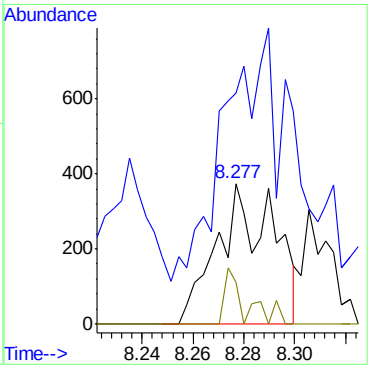


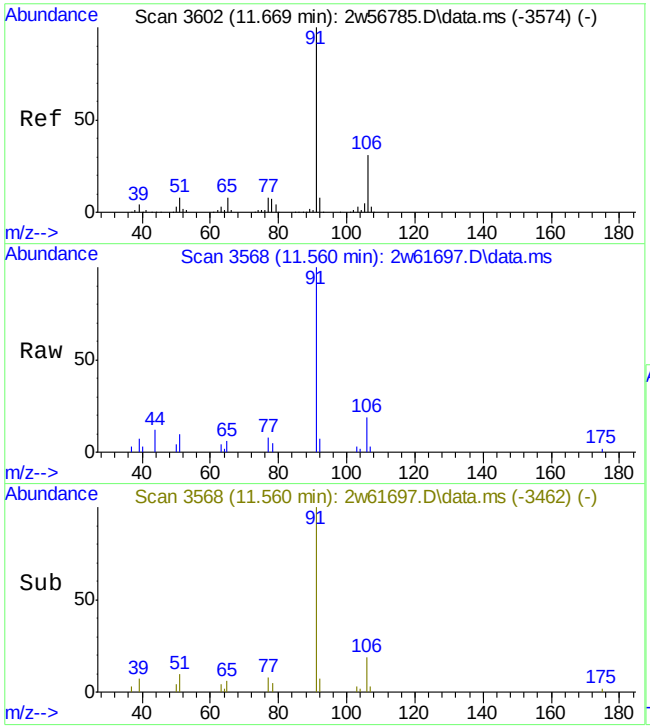




#70
2-HEXANONE
Concen: 0.35 PPBV
RT: 8.277 min Scan# 2547
Delta R.T. 0.016 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 58 Resp: 571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 367.1 | 131.0 | 196.4# |
| 100 | 0.0 | 17.0 | 25.4# |

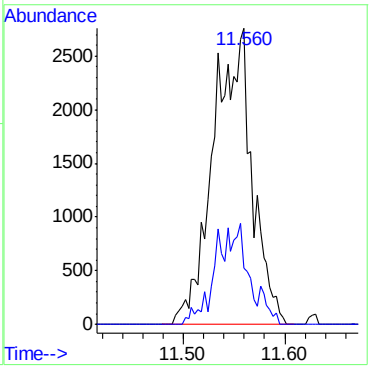


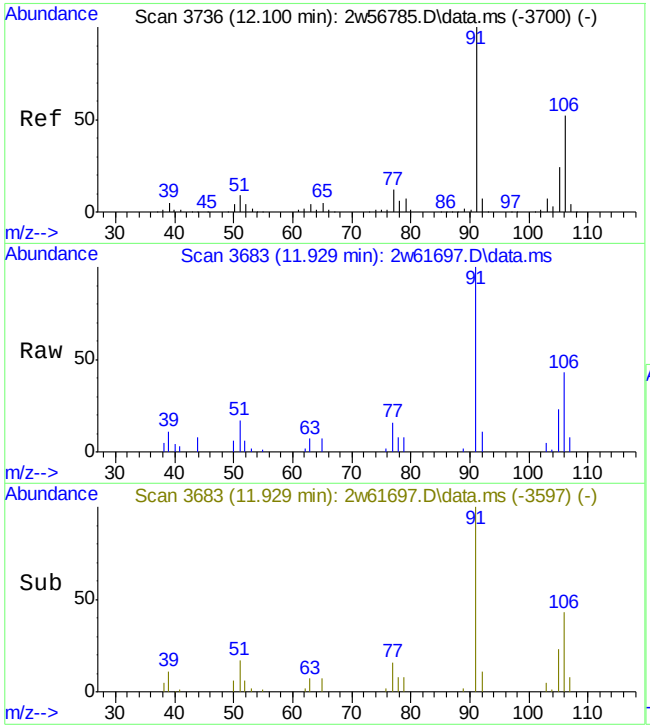



#79
ETHYLBENZENE
Concen: 0.14 PPBV
RT: 11.560 min Scan# 3568
Delta R.T. 0.009 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 91 Resp: 7274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.6 | 11.5 | 51.5 |

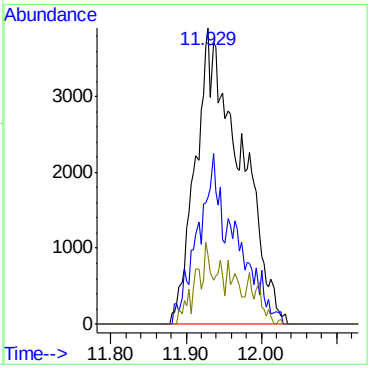


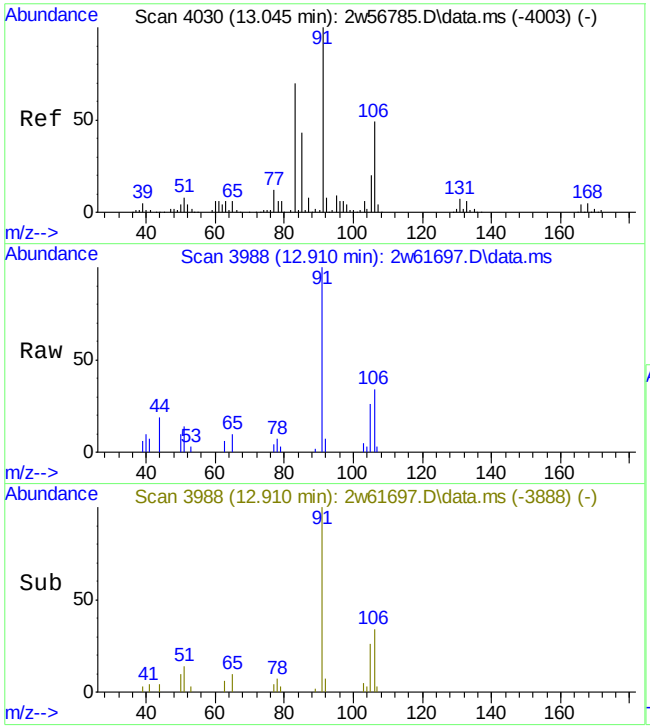




#80
M,P-XYLENE
Concen: 0.41 PPBV
RT: 11.929 min Scan# 3683
Delta R.T. -0.055 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 91 Resp: 16033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.3 | 3.0 | 43.0# |
| 105 | 14.7 | 0.0 | 30.9 |

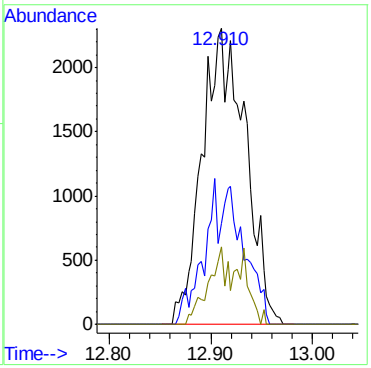


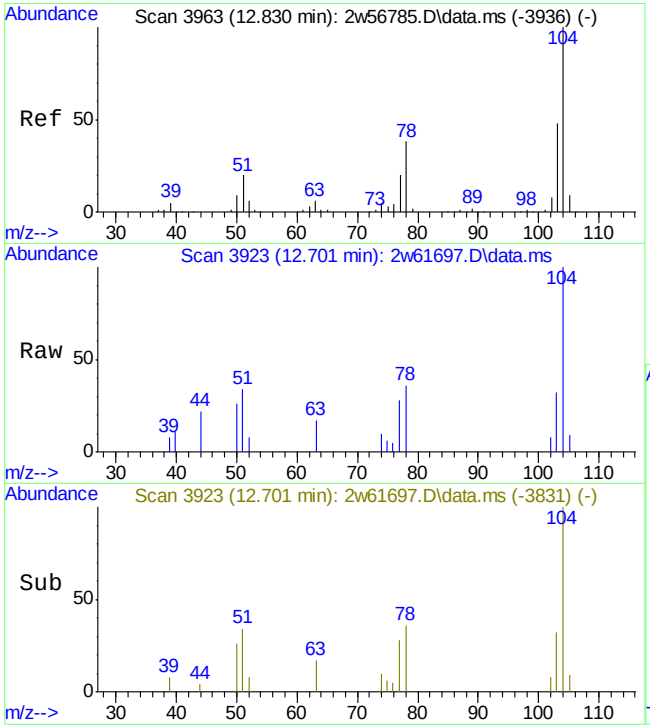



#81
O-XYLENE
Concen: 0.17 PPBV
RT: 12.910 min Scan# 3988
Delta R.T. -0.010 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion: 91 Resp: 6771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 34.3 | 39.3 | 58.9# |
| 105 | 26.0 | 15.0 | 22.4# |

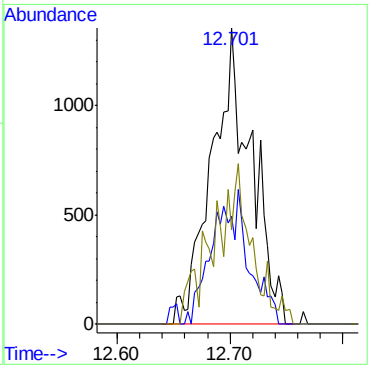


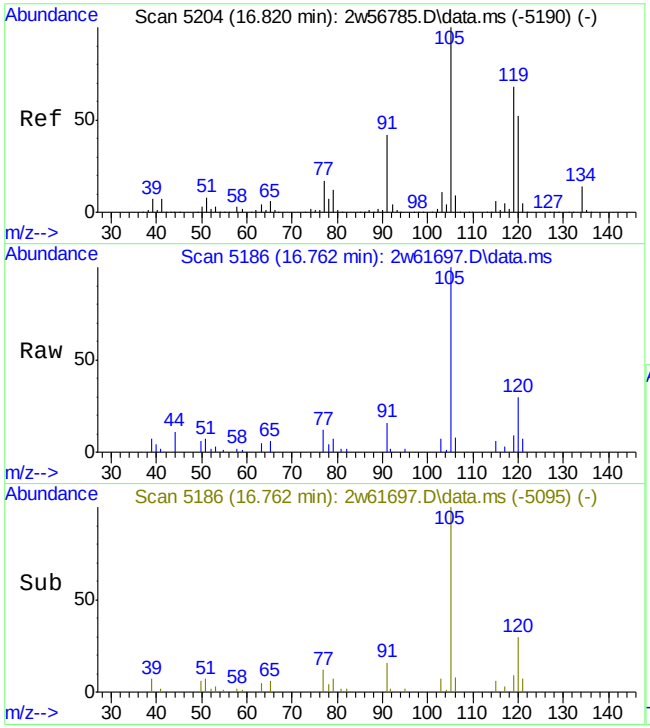




#82
STYRENE
Concen: 0.11 PPBV
RT: 12.701 min Scan# 3923
Delta R.T. -0.004 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion:104 Resp: 3289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 41.0 | 32.3 | 48.5 |
| 103 | 52.6 | 37.7 | 56.5 |

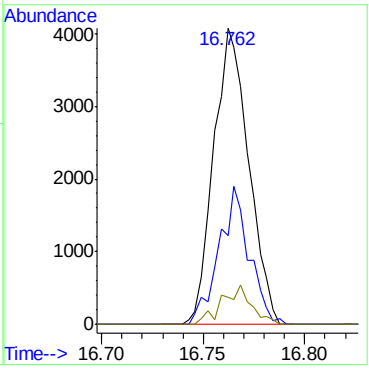





#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.09 PPBV
RT: 16.762 min Scan# 5186
Delta R.T. -0.007 min
Lab File: 2w61697.D
Acq: 30 Sep 2022 3:37 pm

Tgt Ion:105 Resp: 4887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 40.3 | 44.1 | 66.1# |
| 119 | 11.0 | 85.4 | 128.0# |



# Manual Integration Approval Summary



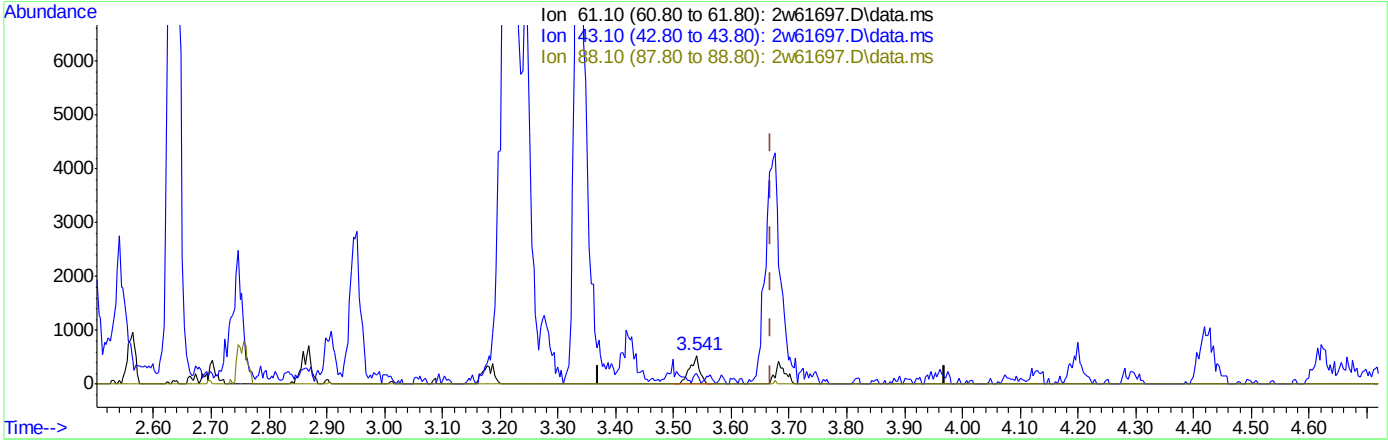
**Sample Number:** JD52638-1DUP
**Lab FileID:** 2W61697.D
**Injection Time:** 09/30/22 15:37
**Method:** TO-15
**Analyst approved:** 10/03/22 15:02 Thomas Hilbig
**Supervisor approved:** 10/03/22 20:41 Kanya Veerawat

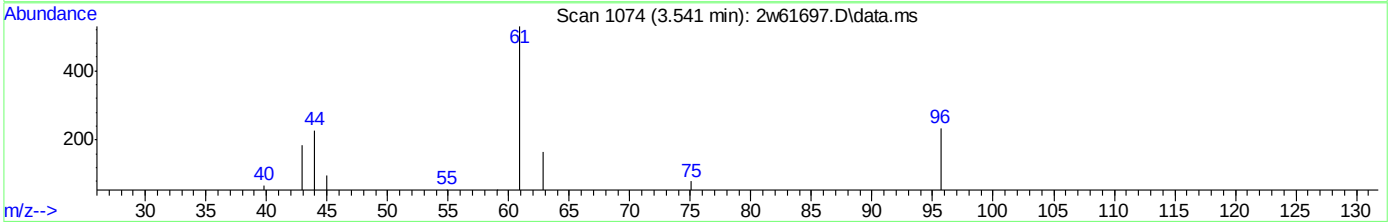
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Ethyl Acetate | 141-78-6 | | 3.68 | Missed peak |

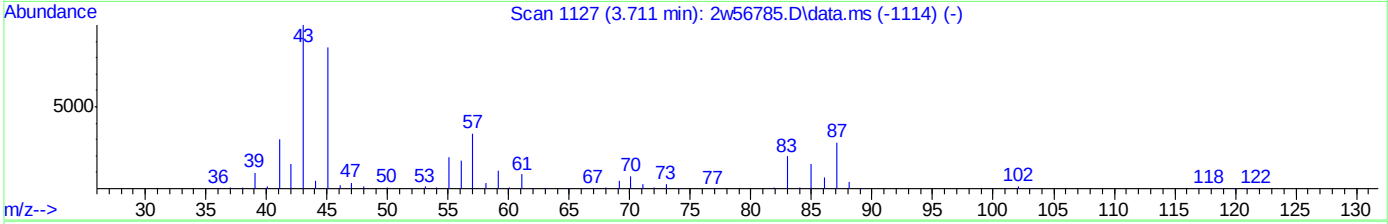
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61697.D
Acq On : 30 Sep 2022 3:37 pm
Operator : thomash
Sample : jd52638-1dup
Misc : MS62567,V2w2737,400,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 03 06:47:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61697.D\data.ms

(44) ETHYL ACETATE (T)

3.541min (-0.129) 0.16PPBV

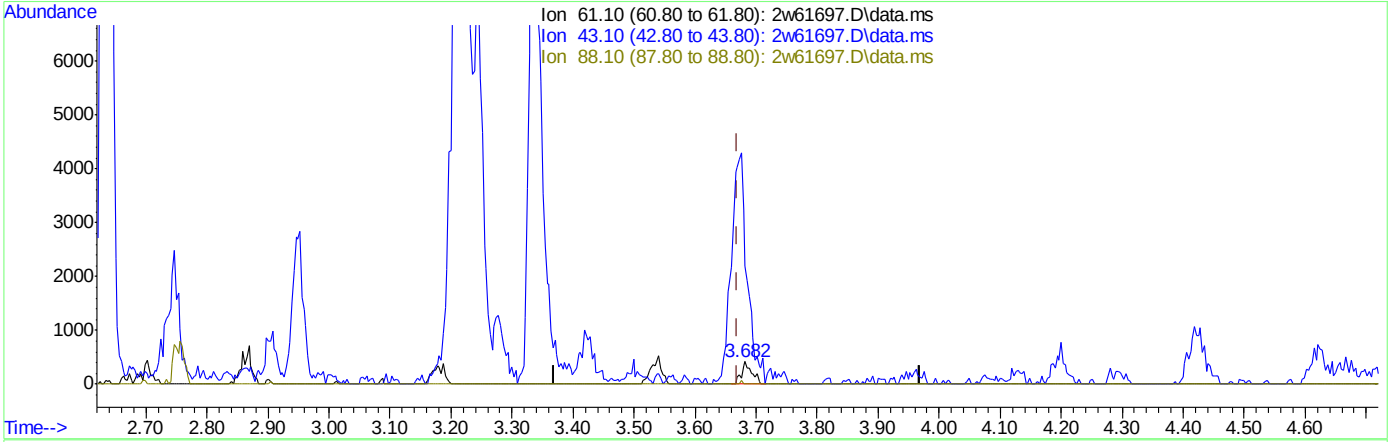
response 625

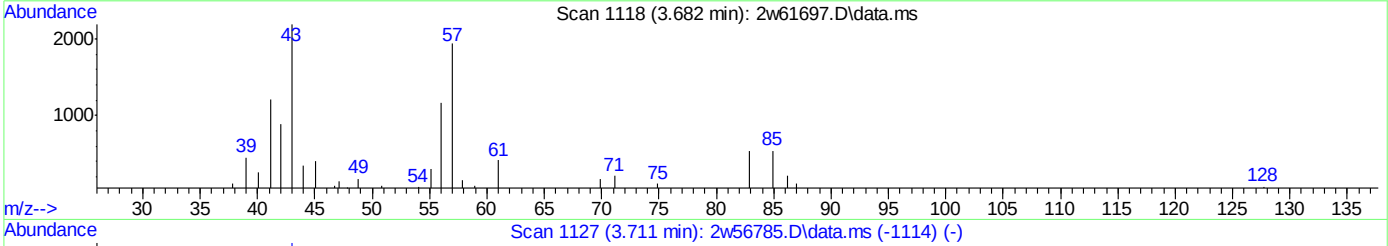
| Ion | Exp% | Act% |
|---|---|---|
| 61.10 | 100 | 100 |
| 43.10 | 1317.70 | 0.00# |
| 88.10 | 43.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |

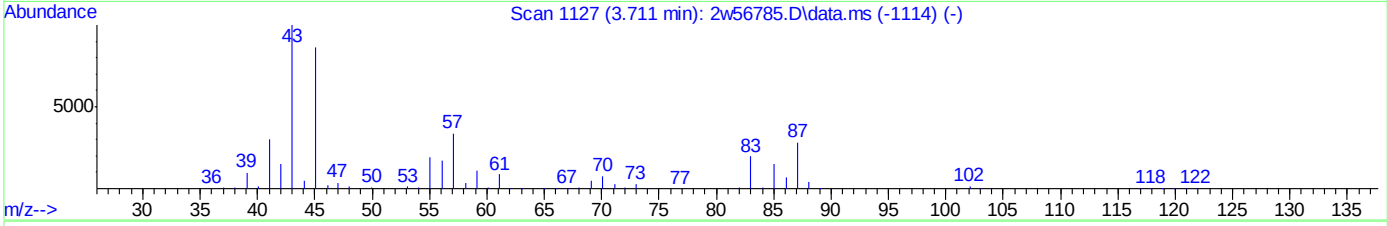
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61697.D
Acq On : 30 Sep 2022 3:37 pm
Operator : thomash
Sample : jd52638-1dup
Misc : MS62567,V2w2737,400,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 03 06:47:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61697.D\data.ms

(44) ETHYL ACETATE (T)

3.682min (+0.013) 0.12PPBV m

response 493

| Ion | Exp% | Act% |
|---|---|---|
| 61.10 | 100 | 100 |
| 43.10 | 1317.70 | 0.00# |
| 88.10 | 43.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w59315.D
Acq On : 15 May 2022 2:37 am
Operator : thomash
Sample : scc,cp11732(a236)
Misc : MS57951,V2w2637,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 15 09:21:51 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration

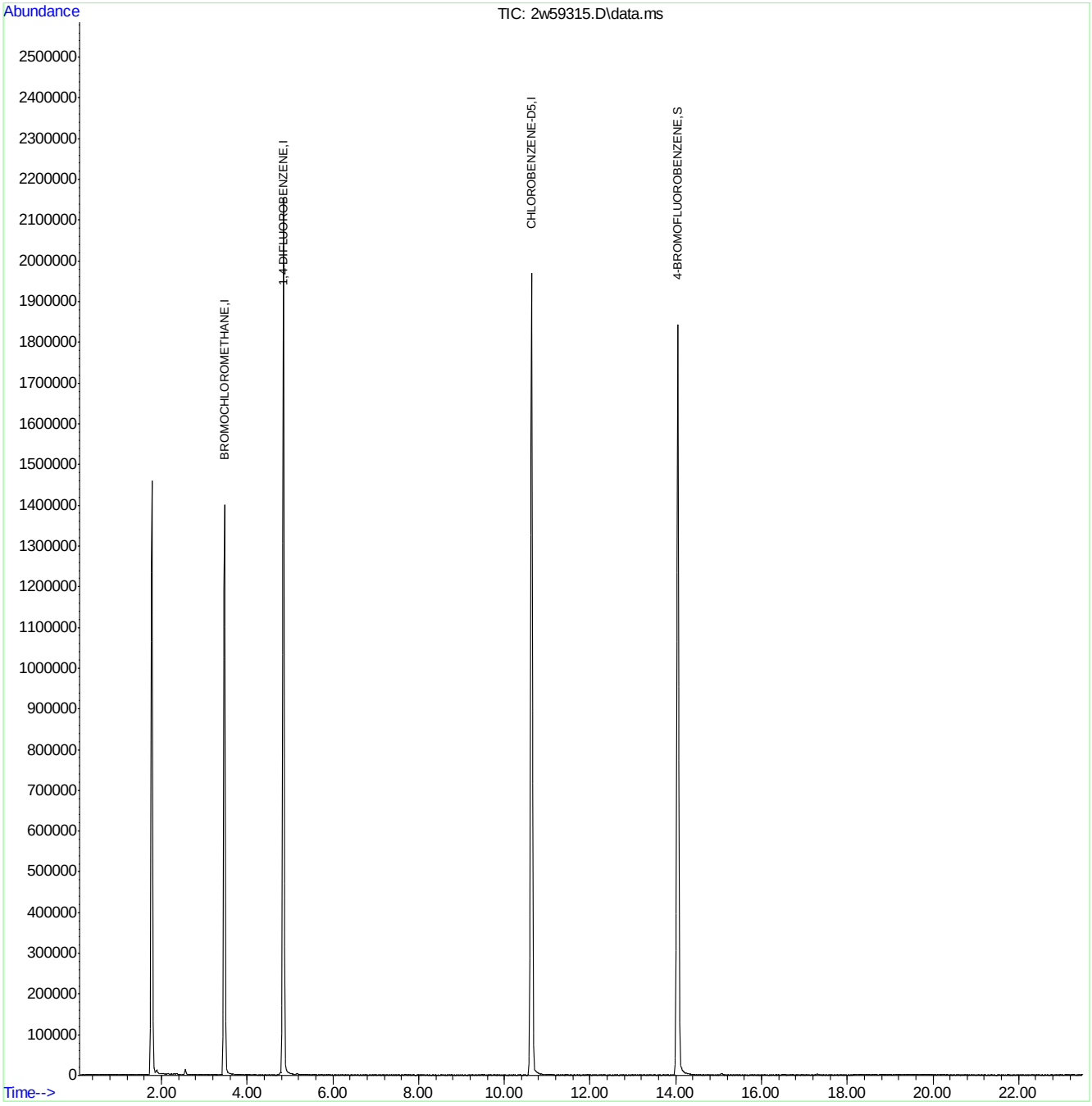
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.470 | 128 | 356412 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.849 | 114 | 1922318 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.634 | 117 | 1676349 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.048 | 95 | 1166906 | 9.60 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w59315.D
Acq On : 15 May 2022 2:37 am
Operator : thomash
Sample : scc,cp11732(a236)
Misc : MS57951,V2w2637,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 15 09:21:51 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61037.D
Acq On : 25 Aug 2022 4:06 am
Operator : thomash
Sample : scc(a497),cp11848
Misc : MS61038,V2w2710,100,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 25 21:33:17 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

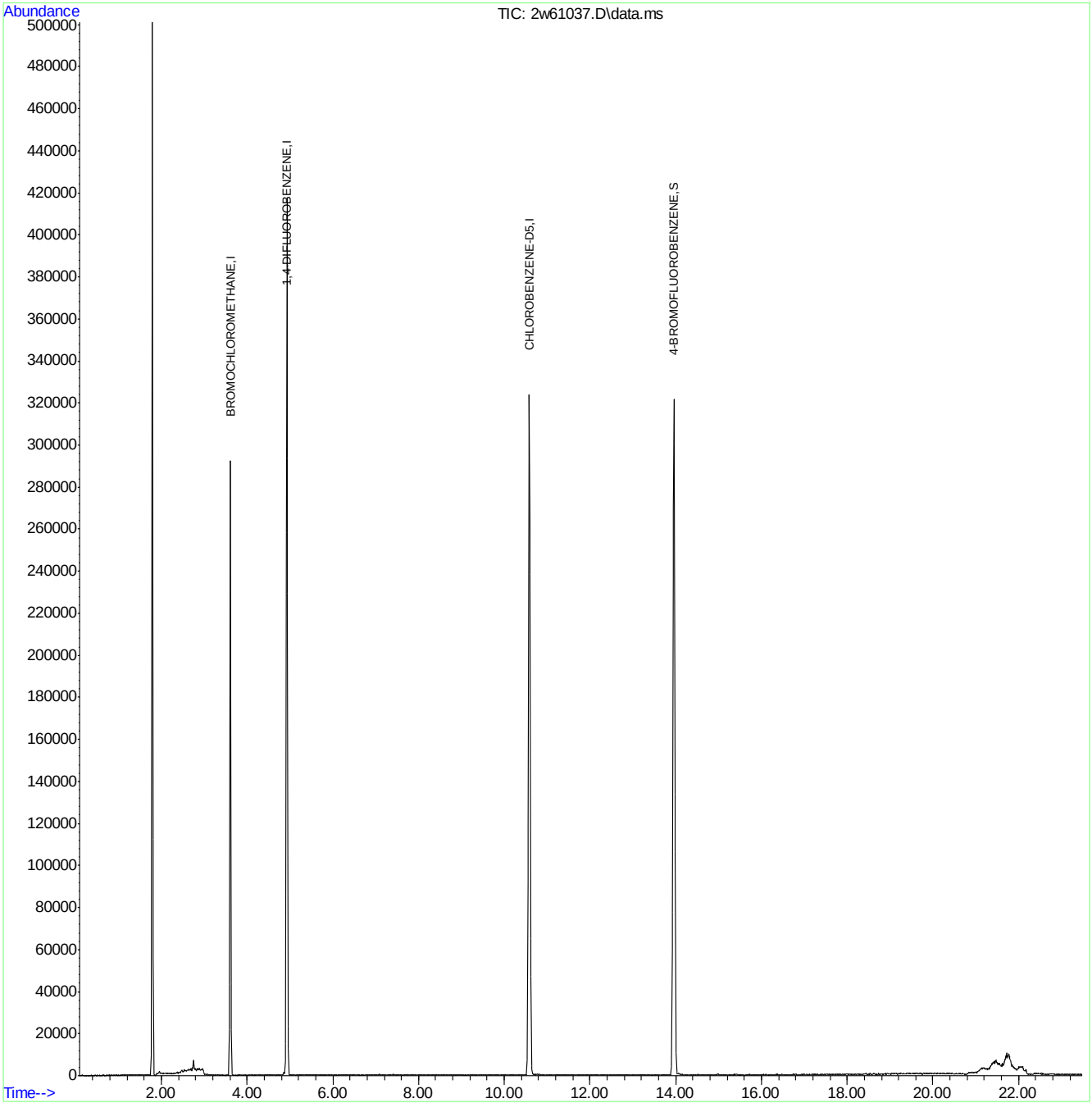
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.609 | 128 | 63078 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 344220 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.583 | 117 | 306814 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.959 | 95 | 196986 | 9.64 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61037.D
Acq On : 25 Aug 2022 4:06 am
Operator : thomash
Sample : scc(a497),cp11848
Misc : MS61038,V2w2710,100,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 25 21:33:17 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61172.D
Acq On : 31 Aug 2022 5:16 am
Operator : williamc
Sample : scc(a1564),cp11860
Misc : MS61582,V2w2714,100,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 22:26:16 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

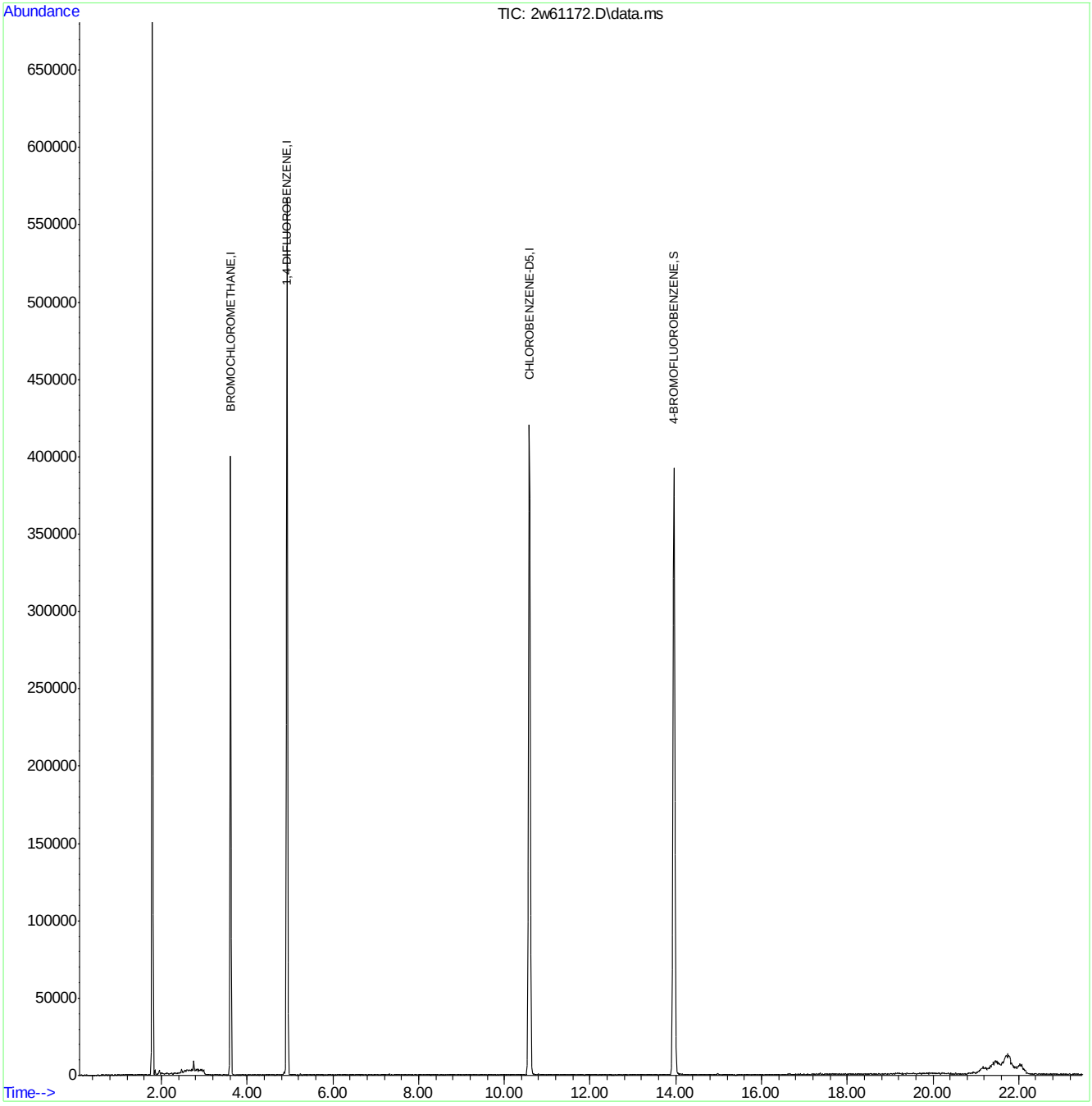
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.614 | 128 | 82868 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.933 | 114 | 455430 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 384298 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 240405 | 9.40 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61172.D
Acq On : 31 Aug 2022 5:16 am
Operator : williamc
Sample : scc(a1564),cp11860
Misc : MS61582,V2w2714,100,,,,1
ALS Vial : 12 Sample Multiplier: 1

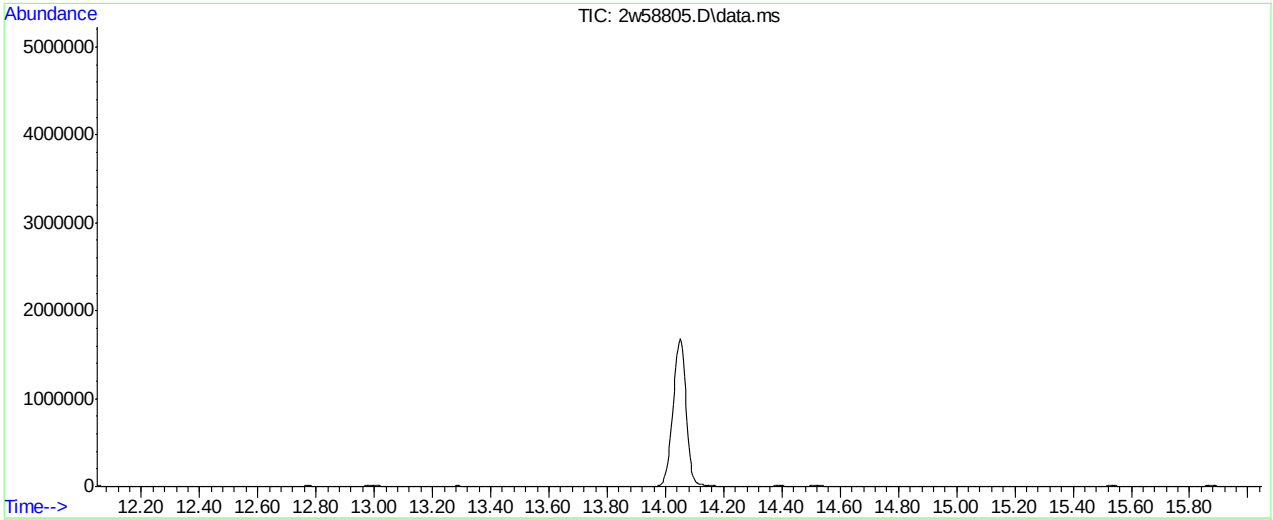
Quant Time: Sep 07 22:26:16 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

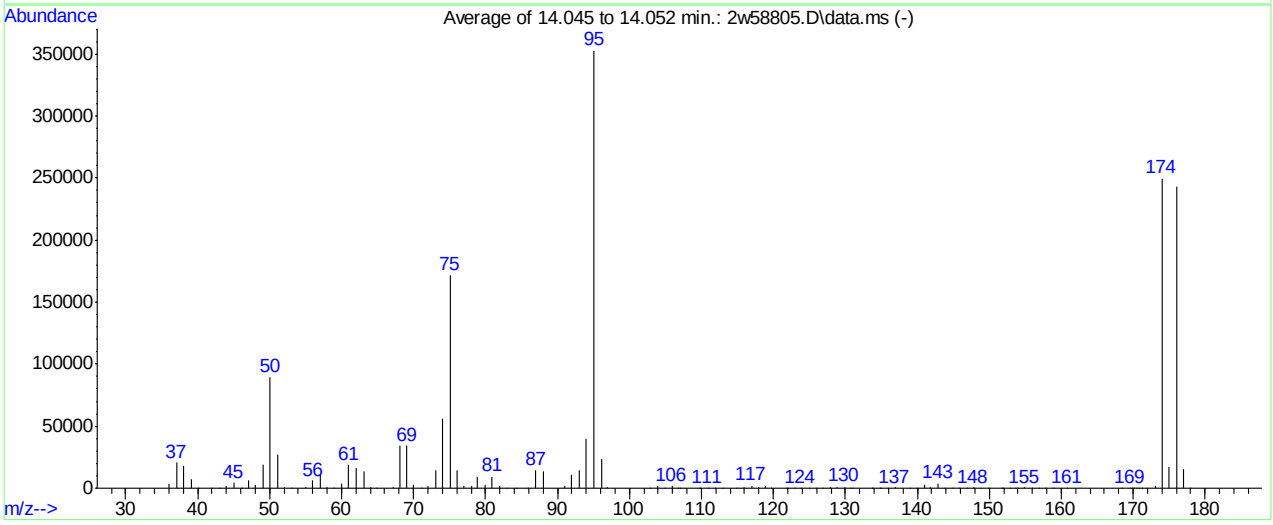


BFB

Data File : C:\msdchem\1\DATA\2w58805.D  Vial: 1
Acq On : 26 Apr 2022 12:38 pm  Operator: thomash
Sample : bfb  Inst : MS2W
Misc : MS56823,V2w2619,,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W2619.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um




AutoFind: Scans 4341, 4342, 4343; Background Corrected with Scan 4310

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 25.4 | 89760 | PASS |
| 75 | 95 | 30 | 66 | 48.8 | 172117 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 352832 | PASS |
| 96 | 95 | 5 | 9 | 6.6 | 23155 | PASS |
| 173 | 174 | 0.00 | 2 | 0.9 | 2236 | PASS |
| 174 | 95 | 50 | 120 | 70.7 | 249621 | PASS |
| 175 | 174 | 4 | 9 | 7.0 | 17403 | PASS |
| 176 | 174 | 93 | 101 | 97.3 | 242859 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 15610 | PASS |

2w58805.D M2W2619.M Wed Apr 27 10:37:34 2022 GCMS2W

Average of 14.045 to 14.052 min.: 2w58805.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.05 | 3466 | 48.05 | 2358 | 60.00 | 3437 | 72.05 | 1823 |
| 37.10 | 20488 | 49.05 | 18968 | 61.00 | 18763 | 73.05 | 14557 |
| 38.10 | 18429 | 50.10 | 89760 | 62.05 | 16736 | 74.05 | 55685 |
| 39.10 | 6989 | 51.10 | 27576 | 63.05 | 13162 | 75.10 | 172117 |
| 40.00 | 344 | 52.05 | 1308 | 64.05 | 1096 | 76.05 | 14601 |
| 41.90 | 26 | 53.00 | 48 | 64.90 | 29 | 77.00 | 2186 |
| 43.05 | 184 | 55.00 | 1129 | 67.10 | 821 | 78.00 | 1429 |
| 44.00 | 1998 | 56.00 | 6175 | 68.05 | 33989 | 78.90 | 8689 |
| 45.05 | 4150 | 57.05 | 11064 | 69.05 | 34163 | 79.95 | 2545 |
| 46.15 | 224 | 58.00 | 506 | 70.05 | 2419 | 80.90 | 9116 |
| 47.00 | 6503 | 58.85 | 91 | 71.00 | 79 | 81.95 | 1808 |

Average of 14.045 to 14.052 min.: 2w58805.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 82.85 | 294 | 96.95 | 650 | 113.00 | 161 | 125.00 | 33 |
| 84.30 | 31 | 102.80 | 167 | 114.90 | 310 | 125.85 | 132 |
| 85.90 | 327 | 103.90 | 1393 | 115.90 | 1027 | 126.80 | 155 |
| 87.00 | 14897 | 104.90 | 418 | 116.95 | 2080 | 127.95 | 1244 |
| 88.00 | 13799 | 105.90 | 1629 | 117.90 | 1245 | 128.90 | 662 |
| 90.95 | 1446 | 106.80 | 183 | 118.90 | 1687 | 129.90 | 1325 |
| 92.00 | 10434 | 107.00 | 108 | 119.70 | 35 | 130.80 | 140 |
| 93.00 | 14124 | 109.70 | 40 | 121.80 | 20 | 131.00 | 355 |
| 94.00 | 39792 | 109.90 | 95 | 122.00 | 17 | 133.70 | 37 |
| 95.10 | 352832 | 110.90 | 232 | 122.90 | 106 | 133.90 | 49 |
| 96.10 | 23155 | 111.85 | 172 | 123.85 | 177 | 134.80 | 129 |

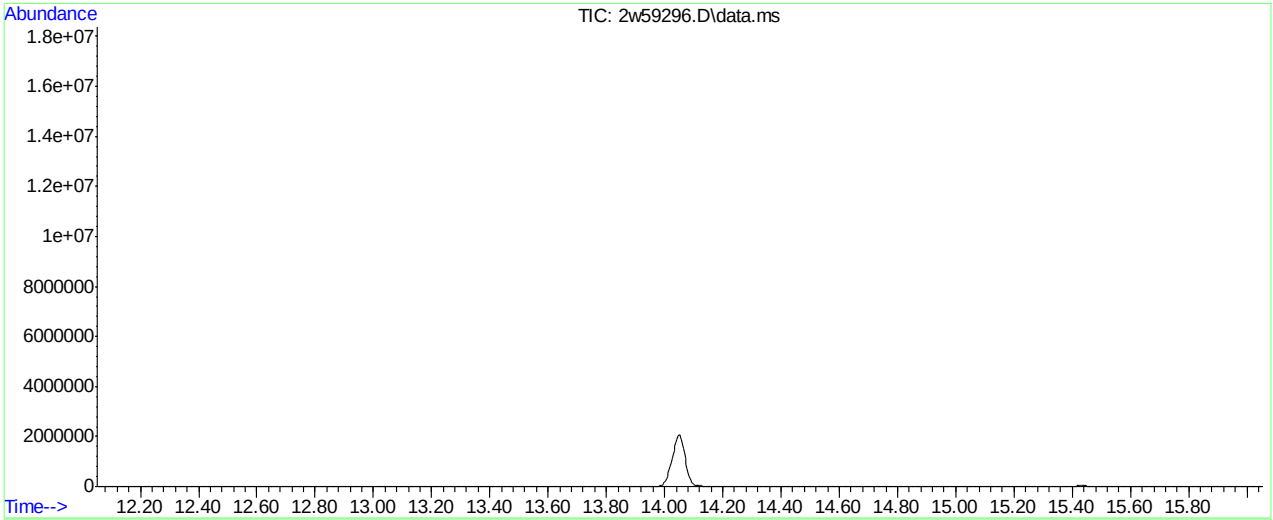
Average of 14.045 to 14.052 min.: 2w58805.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 134.95 | 462 | 146.95 | 230 | 156.90 | 460 | 171.15 | 192 |
| 135.80 | 50 | 147.85 | 677 | 157.85 | 73 | 171.85 | 245 |
| 136.90 | 604 | 148.80 | 234 | 158.90 | 414 | 173.05 | 2236 |
| 138.95 | 128 | 149.85 | 376 | 160.85 | 372 | 174.00 | 249621 |
| 139.90 | 173 | 151.70 | 35 | 168.50 | 17 | 175.00 | 17403 |
| 140.95 | 3126 | 151.85 | 64 | 169.55 | 79 | 176.00 | 242859 |
| 141.85 | 527 | 152.85 | 139 | 169.80 | 48 | 177.00 | 15610 |
| 142.90 | 3630 | 153.70 | 60 | 170.00 | 42 | 177.90 | 362 |
| 143.85 | 224 | 153.95 | 133 | 170.20 | 35 | | |
| 144.90 | 292 | 154.90 | 766 | 170.45 | 89 | | |
| 145.90 | 373 | 155.90 | 102 | 170.70 | 60 | | |

BFB

Data File : C:\msdchem\1\DATA\2w59296.D  Vial: 1
Acq On : 14 May 2022 2:24 pm  Operator: thomash
Sample : bfb  Inst : MS2W
Misc : MS58854,V2w2637,,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W2619.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um




AutoFind: Scans 4342, 4343, 4344; Background Corrected with Scan 4308

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 31.2 | 126685 | PASS |
| 75 | 95 | 30 | 66 | 53.9 | 218880 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 406336 | PASS |
| 96 | 95 | 5 | 9 | 6.4 | 26051 | PASS |
| 173 | 174 | 0.00 | 2 | 0.2 | 681 | PASS |
| 174 | 95 | 50 | 120 | 71.5 | 290688 | PASS |
| 175 | 174 | 4 | 9 | 7.0 | 20408 | PASS |
| 176 | 174 | 93 | 101 | 95.4 | 277376 | PASS |
| 177 | 176 | 5 | 9 | 6.2 | 17256 | PASS |

2w59296.D M2W2619.M Sat May 14 18:51:30 2022 GCMS2W

Average of 14.048 to 14.055 min.: 2w59296.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.05 | 5519 | 48.00 | 3720 | 58.05 | 502 | 69.05 | 43387 |
| 37.05 | 29619 | 49.00 | 27736 | 58.85 | 76 | 70.05 | 3006 |
| 38.10 | 25455 | 50.05 | 126685 | 60.00 | 5474 | 70.80 | 51 |
| 39.10 | 10401 | 51.05 | 37765 | 61.00 | 25221 | 71.05 | 164 |
| 39.90 | 285 | 52.05 | 1775 | 62.05 | 24264 | 72.05 | 2790 |
| 41.05 | 55 | 53.10 | 24 | 63.00 | 18176 | 73.00 | 19792 |
| 42.95 | 349 | 54.00 | 20 | 64.00 | 1565 | 74.05 | 72805 |
| 44.00 | 3664 | 55.00 | 1602 | 65.10 | 155 | 75.10 | 218880 |
| 45.05 | 5119 | 56.00 | 8621 | 65.80 | 22 | 76.05 | 17693 |
| 46.05 | 421 | 57.00 | 16691 | 67.05 | 1117 | 77.05 | 1838 |
| 47.05 | 8557 | 57.90 | 226 | 68.00 | 43765 | 77.95 | 1377 |

Average of 14.048 to 14.055 min.: 2w59296.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 78.95 | 13590 | 92.00 | 12606 | 109.80 | 278 | 121.90 | 37 |
| 79.95 | 3739 | 93.00 | 17821 | 110.85 | 380 | 122.90 | 190 |
| 80.95 | 13926 | 94.05 | 50227 | 111.85 | 239 | 123.90 | 207 |
| 81.95 | 2851 | 95.05 | 406336 | 112.90 | 399 | 124.75 | 67 |
| 82.95 | 323 | 96.05 | 26051 | 114.95 | 482 | 125.95 | 136 |
| 84.20 | 34 | 97.00 | 670 | 115.90 | 1710 | 127.05 | 103 |
| 85.00 | 28 | 102.95 | 197 | 116.90 | 2816 | 127.90 | 1440 |
| 85.95 | 473 | 103.90 | 1934 | 117.80 | 442 | 128.85 | 648 |
| 87.00 | 14889 | 104.90 | 611 | 117.95 | 931 | 129.90 | 1613 |
| 88.00 | 14988 | 105.90 | 2082 | 118.95 | 2448 | 130.95 | 481 |
| 90.95 | 1686 | 106.85 | 422 | 119.90 | 38 | 131.60 | 18 |

Average of 14.048 to 14.055 min.: 2w59296.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 131.95 | 101 | 141.85 | 570 | 152.10 | 43 | 162.00 | 29 |
| 133.80 | 126 | 142.95 | 4814 | 152.85 | 266 | 167.00 | 19 |
| 134.00 | 21 | 143.85 | 313 | 153.40 | 28 | 167.40 | 22 |
| 134.85 | 834 | 144.95 | 345 | 153.95 | 171 | 169.25 | 162 |
| 135.85 | 104 | 145.85 | 500 | 154.90 | 992 | 169.95 | 96 |
| 136.90 | 760 | 146.80 | 186 | 155.90 | 17 | 170.65 | 203 |
| 137.80 | 32 | 147.00 | 63 | 156.90 | 640 | 171.00 | 85 |
| 138.75 | 154 | 147.90 | 910 | 157.80 | 33 | 171.20 | 97 |
| 139.70 | 83 | 148.85 | 298 | 158.95 | 473 | 172.00 | 544 |
| 139.95 | 294 | 149.95 | 357 | 160.80 | 135 | 172.90 | 681 |
| 140.95 | 4758 | 151.75 | 131 | 160.95 | 386 | 174.00 | 290688 |

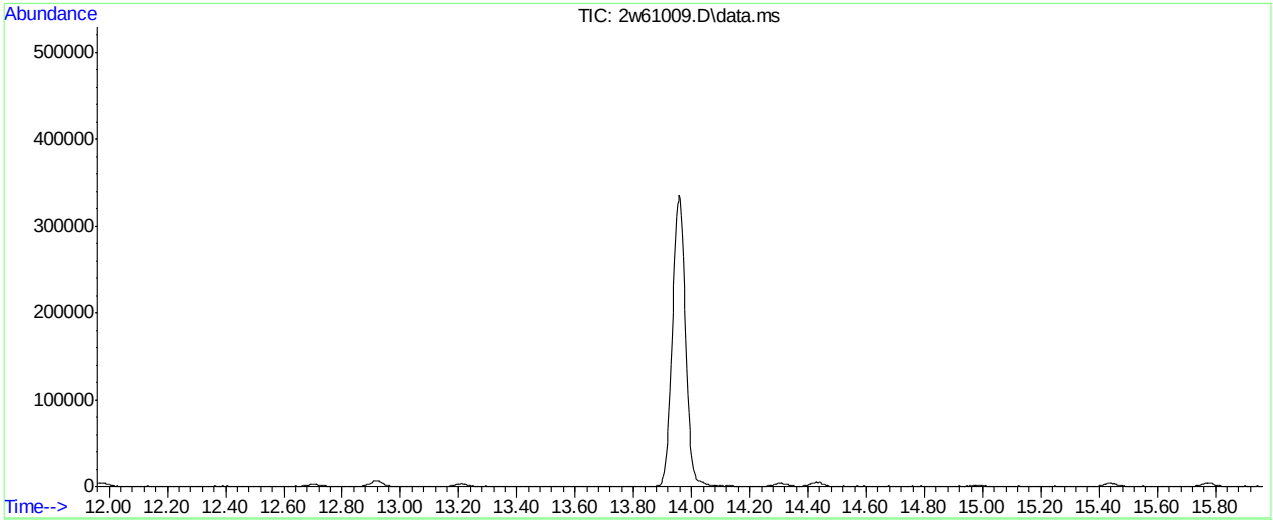
Average of 14.048 to 14.055 min.: 2w59296.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 175.00 | 20408 | | | | | | |
| 176.00 | 277376 | | | | | | |
| 177.00 | 17256 | | | | | | |
| 177.95 | 445 | | | | | | |

BFB

Data File : C:\msdchem\1\DATA\2w61009.D  Vial: 1
Acq On : 19 Aug 2022 10:50 am  Operator: thomash
Sample : bfb  Inst : MS2W
Misc : MS61038,V2w2709,,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um




AutoFind: Scans 4313, 4314, 4315; Background Corrected with Scan 4286

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 21.8 | 14581 | PASS |
| 75 | 95 | 30 | 66 | 49.2 | 32835 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 66739 | PASS |
| 96 | 95 | 5 | 9 | 6.6 | 4420 | PASS |
| 173 | 174 | 0.00 | 2 | 0.4 | 243 | PASS |
| 174 | 95 | 50 | 120 | 82.7 | 55160 | PASS |
| 175 | 174 | 4 | 9 | 7.2 | 3990 | PASS |
| 176 | 174 | 93 | 101 | 96.0 | 52933 | PASS |
| 177 | 176 | 5 | 9 | 6.2 | 3276 | PASS |

2w61009.D M2W2709.M Tue Aug 23 16:19:20 2022 GCMS2W

Average of 13.956 to 13.962 min.: 2w61009.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.00 | 578 | 48.05 | 213 | 61.00 | 3481 | 74.00 | 11483 |
| 37.00 | 3714 | 49.00 | 2974 | 62.00 | 3460 | 75.00 | 32835 |
| 38.00 | 3419 | 50.00 | 14581 | 63.00 | 2789 | 76.00 | 2792 |
| 38.95 | 1240 | 51.00 | 4347 | 64.00 | 310 | 76.90 | 416 |
| 39.95 | 125 | 51.95 | 182 | 66.90 | 83 | 77.90 | 258 |
| 42.90 | 19 | 54.85 | 178 | 67.05 | 109 | 78.90 | 2812 |
| 43.95 | 460 | 56.00 | 1314 | 68.00 | 6776 | 79.85 | 677 |
| 45.00 | 688 | 57.00 | 2197 | 69.00 | 6765 | 80.90 | 2829 |
| 46.05 | 87 | 57.90 | 30 | 69.95 | 567 | 81.85 | 556 |
| 46.95 | 704 | 59.90 | 391 | 71.95 | 382 | 82.75 | 38 |
| 47.80 | 138 | 60.10 | 175 | 73.00 | 2909 | 85.90 | 46 |

Average of 13.956 to 13.962 min.: 2w61009.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 86.95 | 2619 | 105.80 | 406 | 123.70 | 61 | 140.80 | 916 |
| 87.95 | 2548 | 106.95 | 55 | 125.85 | 48 | 141.85 | 76 |
| 90.90 | 291 | 111.00 | 55 | 127.70 | 69 | 142.85 | 878 |
| 91.95 | 2050 | 111.85 | 93 | 127.90 | 157 | 145.85 | 64 |
| 92.95 | 2901 | 112.85 | 61 | 128.85 | 85 | 147.85 | 119 |
| 94.00 | 7777 | 114.80 | 72 | 129.75 | 262 | 148.85 | 50 |
| 95.00 | 66739 | 115.80 | 241 | 130.80 | 85 | 149.80 | 61 |
| 96.00 | 4420 | 116.85 | 577 | 134.80 | 152 | 152.70 | 19 |
| 96.95 | 137 | 117.70 | 134 | 136.85 | 137 | 152.95 | 47 |
| 103.85 | 336 | 117.90 | 130 | 139.50 | 18 | 154.70 | 64 |
| 104.75 | 80 | 118.85 | 324 | 139.90 | 51 | 154.85 | 119 |

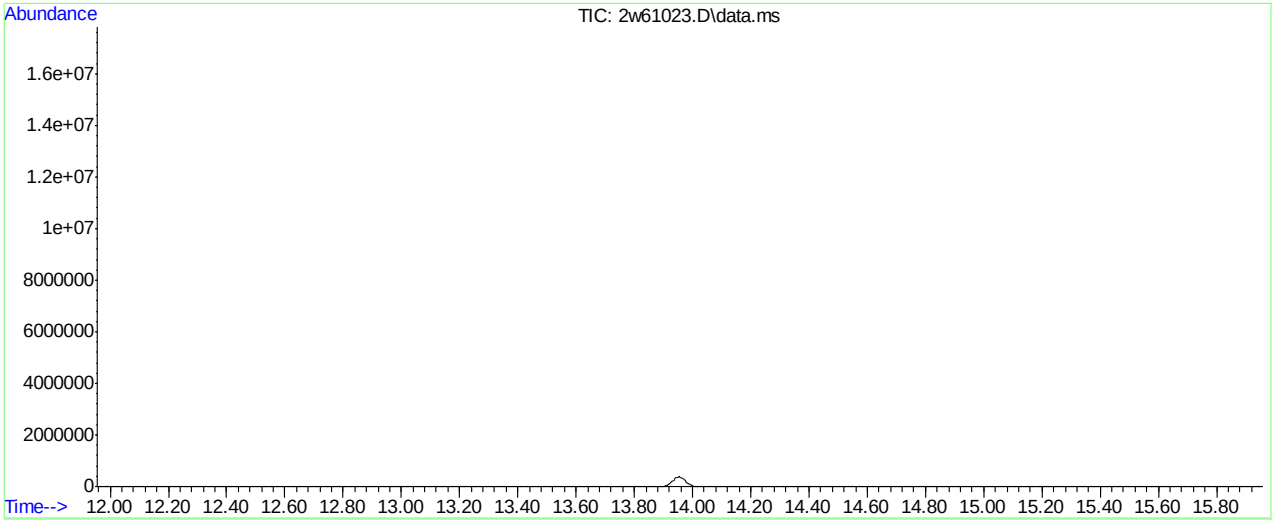
Average of 13.956 to 13.962 min.: 2w61009.D\data.ms
bfb
Modified:subtracted

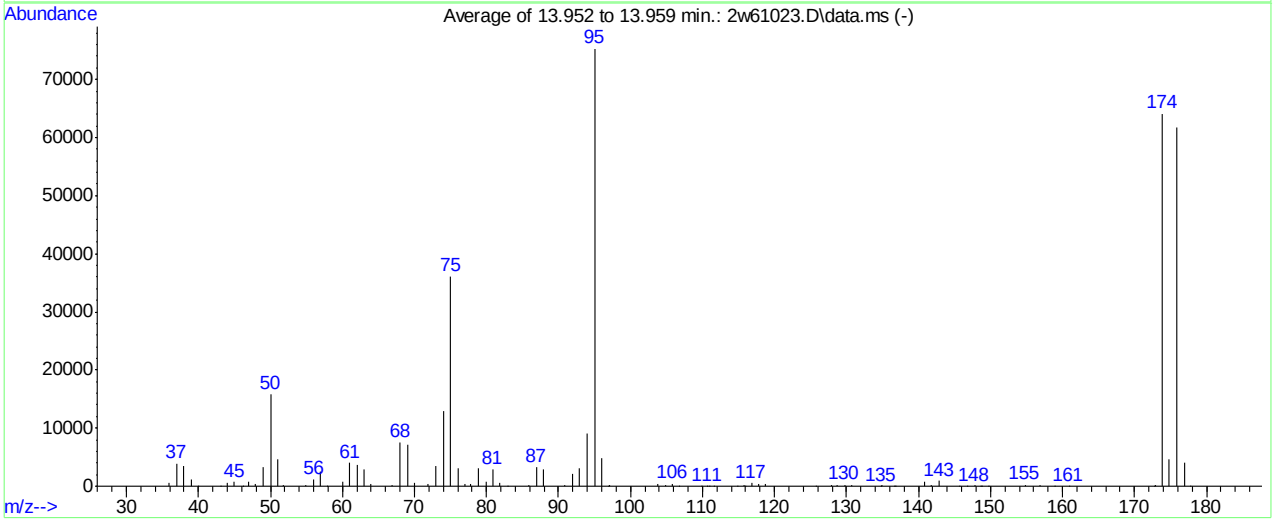
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 156.80 | 103 | | | | | | |
| 158.75 | 79 | | | | | | |
| 160.80 | 34 | | | | | | |
| 172.90 | 243 | | | | | | |
| 173.90 | 55160 | | | | | | |
| 174.90 | 3990 | | | | | | |
| 175.90 | 52933 | | | | | | |
| 176.90 | 3276 | | | | | | |
| 177.90 | 94 | | | | | | |

BFB

Data File : C:\msdchem\1\DATA\2w61023.D  Vial: 1
Acq On : 24 Aug 2022 7:28 pm  Operator: thomash
Sample : bfb  Inst : MS2W
Misc : MS61038,V2w2710,,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um




AutoFind: Scans 4312, 4313, 4314; Background Corrected with Scan 4284

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 21.1 | 15873 | PASS |
| 75 | 95 | 30 | 66 | 48.0 | 36171 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 75325 | PASS |
| 96 | 95 | 5 | 9 | 6.4 | 4799 | PASS |
| 173 | 174 | 0.00 | 2 | 0.4 | 243 | PASS |
| 174 | 95 | 50 | 120 | 85.1 | 64109 | PASS |
| 175 | 174 | 4 | 9 | 7.1 | 4578 | PASS |
| 176 | 174 | 93 | 101 | 96.3 | 61741 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 4021 | PASS |

2w61023.D M2W2709.M Thu Aug 25 20:25:28 2022 GCMS2W

Average of 13.952 to 13.959 min.: 2w61023.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 35.95 | 637 | 49.00 | 3211 | 63.00 | 2971 | 76.95 | 375 |
| 37.00 | 3955 | 50.00 | 15873 | 64.00 | 316 | 77.85 | 296 |
| 38.00 | 3514 | 51.00 | 4675 | 66.90 | 175 | 78.90 | 3025 |
| 39.00 | 1222 | 51.85 | 167 | 68.00 | 7598 | 79.90 | 752 |
| 39.90 | 9 | 54.95 | 253 | 69.00 | 7205 | 80.85 | 2966 |
| 43.05 | 56 | 56.00 | 1242 | 70.00 | 593 | 81.90 | 561 |
| 43.95 | 557 | 57.00 | 2585 | 71.90 | 370 | 82.85 | 97 |
| 45.00 | 717 | 57.90 | 82 | 72.95 | 3441 | 85.85 | 115 |
| 46.20 | 25 | 60.00 | 748 | 74.00 | 12893 | 86.90 | 3290 |
| 46.95 | 729 | 61.00 | 4003 | 75.00 | 36171 | 87.90 | 2892 |
| 47.85 | 473 | 62.00 | 3648 | 76.00 | 3122 | 90.85 | 251 |

Average of 13.952 to 13.959 min.: 2w61023.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 91.95 | 2141 | 109.80 | 40 | 127.85 | 238 | 145.70 | 76 |
| 92.95 | 3178 | 110.70 | 58 | 128.75 | 147 | 146.75 | 44 |
| 93.95 | 9004 | 110.90 | 37 | 129.75 | 267 | 147.80 | 188 |
| 95.00 | 75325 | 111.60 | 28 | 130.75 | 152 | 148.60 | 26 |
| 96.00 | 4799 | 114.85 | 75 | 134.70 | 42 | 148.85 | 73 |
| 96.90 | 35 | 115.70 | 195 | 134.90 | 121 | 149.75 | 55 |
| 97.05 | 148 | 115.90 | 101 | 136.70 | 41 | 154.85 | 239 |
| 103.80 | 353 | 116.80 | 554 | 136.85 | 74 | 156.80 | 134 |
| 104.85 | 110 | 117.80 | 382 | 140.85 | 853 | 158.85 | 87 |
| 105.85 | 401 | 118.80 | 480 | 141.75 | 117 | 160.85 | 83 |
| 106.75 | 102 | 125.80 | 19 | 142.90 | 934 | 172.70 | 62 |

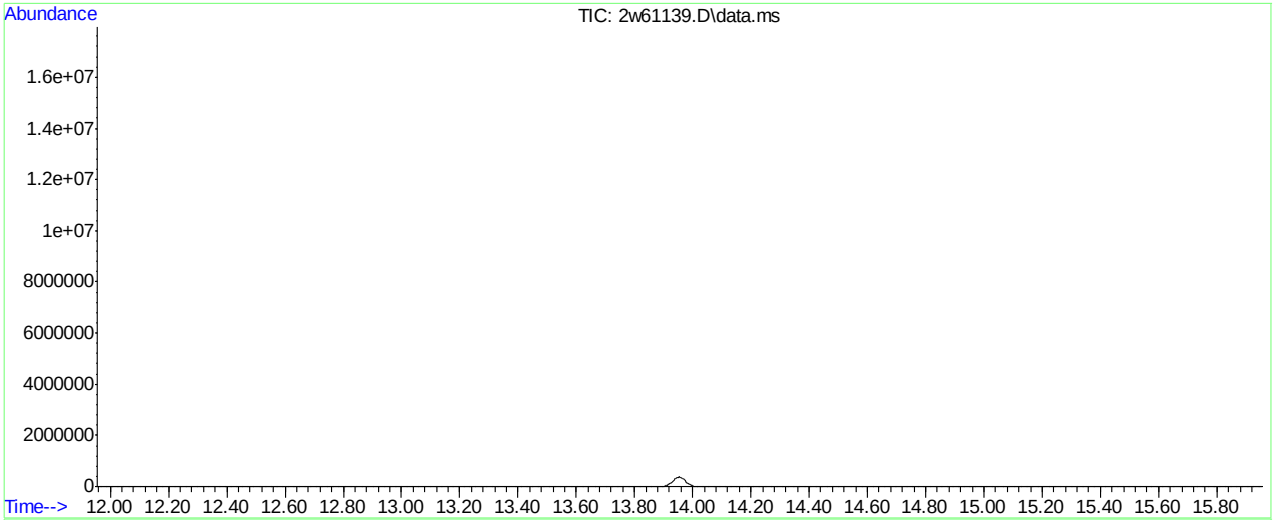
Average of 13.952 to 13.959 min.: 2w61023.D\data.ms
bfb
Modified:subtracted

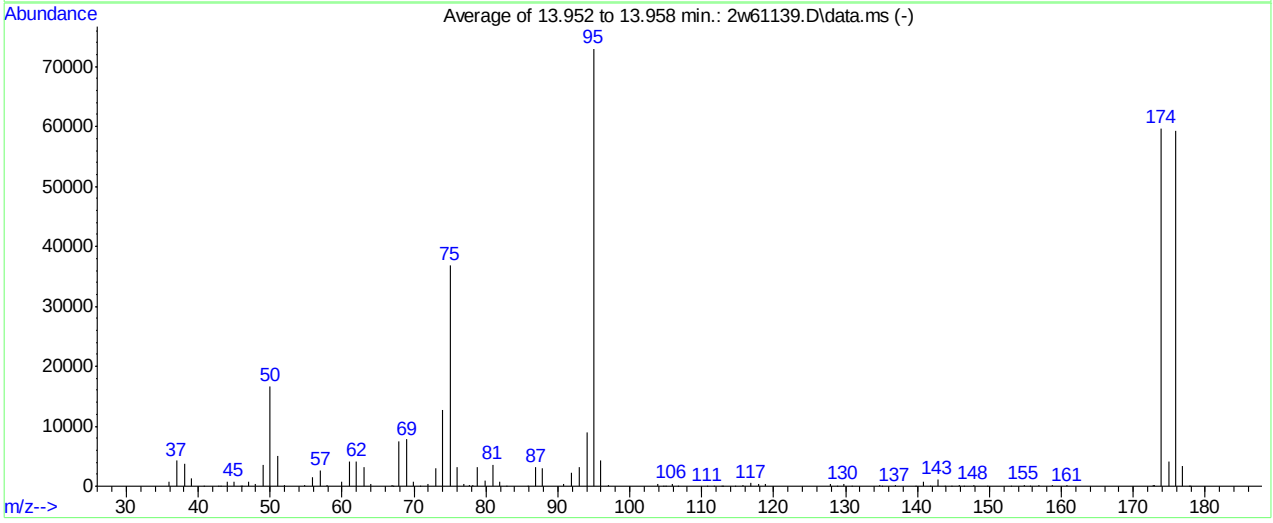
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 172.90 | 243 | | | | | | |
| 173.90 | 64109 | | | | | | |
| 174.85 | 4578 | | | | | | |
| 175.90 | 61741 | | | | | | |
| 176.90 | 4021 | | | | | | |
| 177.70 | 77 | | | | | | |

BFB

Data File : C:\msdchem\1\DATA\2w61139.D  Vial: 1
Acq On : 30 Aug 2022 8:49 am  Operator: williamc
Sample : bfb  Inst : MS2W
Misc : MS61607,V2w2714,,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um




AutoFind: Scans 4312, 4313, 4314; Background Corrected with Scan 4282

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 22.9 | 16722 | PASS |
| 75 | 95 | 30 | 66 | 50.6 | 36933 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 73021 | PASS |
| 96 | 95 | 5 | 9 | 6.0 | 4398 | PASS |
| 173 | 174 | 0.00 | 2 | 0.4 | 245 | PASS |
| 174 | 95 | 50 | 120 | 81.8 | 59720 | PASS |
| 175 | 174 | 4 | 9 | 6.9 | 4107 | PASS |
| 176 | 174 | 93 | 101 | 99.4 | 59349 | PASS |
| 177 | 176 | 5 | 9 | 5.8 | 3464 | PASS |

2w61139.D M2W2709.M Thu Sep 01 10:48:17 2022 GCMS2W

Average of 13.952 to 13.958 min.: 2w61139.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 35.95 | 685 | 47.05 | 696 | 60.95 | 4049 | 72.95 | 3078 |
| 37.00 | 4262 | 47.95 | 429 | 62.00 | 4190 | 74.00 | 12747 |
| 38.05 | 3714 | 49.00 | 3613 | 63.00 | 3225 | 75.00 | 36933 |
| 39.00 | 1402 | 50.00 | 16722 | 63.90 | 335 | 75.95 | 3209 |
| 40.80 | 18 | 51.00 | 5111 | 66.90 | 142 | 76.90 | 449 |
| 42.80 | 99 | 52.05 | 139 | 67.10 | 45 | 77.75 | 206 |
| 43.10 | 18 | 54.85 | 249 | 67.95 | 7397 | 78.10 | 132 |
| 43.95 | 763 | 55.95 | 1508 | 69.00 | 7825 | 78.85 | 3205 |
| 44.95 | 802 | 57.00 | 2641 | 69.95 | 750 | 79.85 | 884 |
| 45.90 | 31 | 57.90 | 115 | 70.90 | 46 | 80.90 | 3636 |
| 46.10 | 41 | 59.95 | 775 | 71.95 | 439 | 81.85 | 720 |

Average of 13.952 to 13.958 min.: 2w61139.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 82.90 | 74 | 103.85 | 410 | 116.85 | 530 | 140.80 | 751 |
| 85.75 | 48 | 104.70 | 64 | 117.85 | 405 | 141.70 | 57 |
| 86.90 | 3188 | 104.90 | 60 | 118.80 | 446 | 142.85 | 1142 |
| 87.90 | 2978 | 105.85 | 442 | 127.85 | 342 | 143.85 | 83 |
| 90.85 | 306 | 106.70 | 86 | 128.75 | 71 | 144.70 | 72 |
| 91.95 | 2229 | 110.80 | 54 | 129.75 | 375 | 145.80 | 186 |
| 92.95 | 3119 | 111.60 | 32 | 130.80 | 77 | 146.50 | 45 |
| 94.00 | 9046 | 112.70 | 26 | 134.80 | 109 | 147.80 | 208 |
| 95.00 | 73021 | 112.90 | 20 | 135.10 | 31 | 149.70 | 67 |
| 95.95 | 4398 | 114.70 | 49 | 136.85 | 120 | 153.05 | 45 |
| 97.00 | 139 | 115.75 | 279 | 139.80 | 47 | 154.80 | 242 |

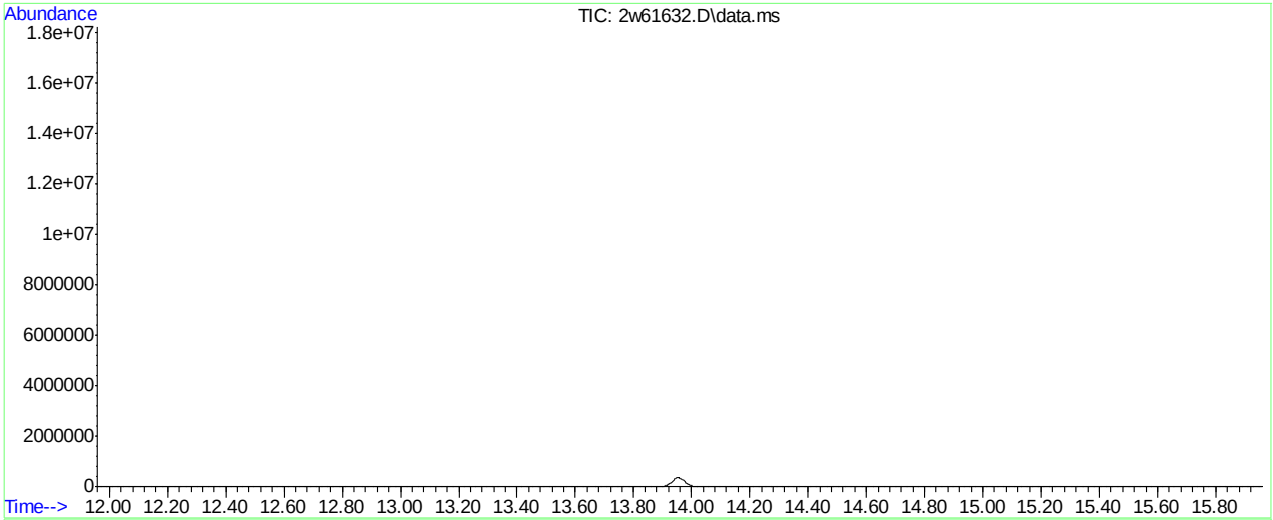
Average of 13.952 to 13.958 min.: 2w61139.D\data.ms
bfb
Modified:subtracted

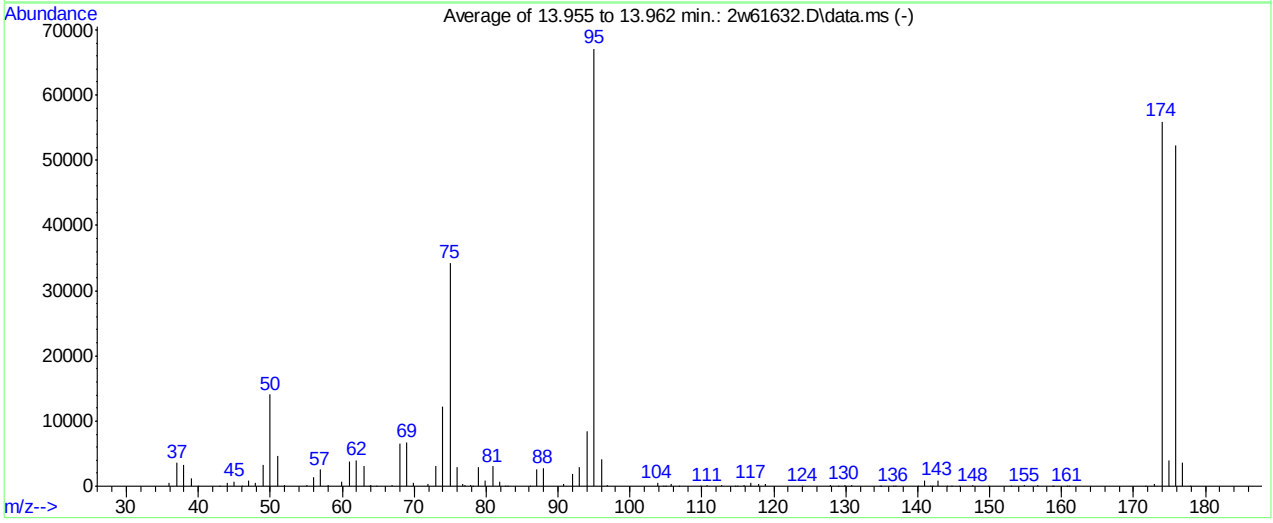
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 155.70 | 51 | 177.90 | 51 | | | | |
| 156.85 | 157 | | | | | | |
| 158.80 | 142 | | | | | | |
| 160.80 | 101 | | | | | | |
| 172.70 | 245 | | | | | | |
| 172.90 | 117 | | | | | | |
| 173.90 | 59720 | | | | | | |
| 174.90 | 4107 | | | | | | |
| 175.90 | 59349 | | | | | | |
| 176.90 | 3464 | | | | | | |
| 177.70 | 72 | | | | | | |

BFB

Data File : C:\msdchem\1\DATA\2w61632.D  Vial: 1
Acq On : 28 Sep 2022 7:23 am  Operator: thomash
Sample : bfb  Inst : MS2W
Misc : MS62371,V2w2735,,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um




AutoFind: Scans 4313, 4314, 4315; Background Corrected with Scan 4286

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 20.9 | 14046 | PASS |
| 75 | 95 | 30 | 66 | 51.1 | 34277 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 67136 | PASS |
| 96 | 95 | 5 | 9 | 6.2 | 4157 | PASS |
| 173 | 174 | 0.00 | 2 | 0.6 | 310 | PASS |
| 174 | 95 | 50 | 120 | 83.3 | 55933 | PASS |
| 175 | 174 | 4 | 9 | 7.0 | 3892 | PASS |
| 176 | 174 | 93 | 101 | 93.6 | 52349 | PASS |
| 177 | 176 | 5 | 9 | 7.0 | 3689 | PASS |

2w61632.D M2W2709.M Thu Sep 29 07:57:19 2022 GCMS2W

Average of 13.955 to 13.962 min.: 2w61632.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 35.95 | 536 | 49.00 | 3274 | 63.00 | 3150 | 75.00 | 34277 |
| 37.05 | 3555 | 50.00 | 14046 | 63.80 | 90 | 76.00 | 2993 |
| 38.00 | 3234 | 51.00 | 4588 | 63.95 | 195 | 76.80 | 320 |
| 39.00 | 1200 | 51.95 | 224 | 64.80 | 19 | 77.00 | 134 |
| 39.95 | 65 | 55.05 | 255 | 66.85 | 253 | 77.85 | 260 |
| 42.95 | 71 | 56.00 | 1394 | 68.00 | 6505 | 78.20 | 68 |
| 44.00 | 582 | 56.95 | 2558 | 69.00 | 6770 | 78.85 | 2990 |
| 45.00 | 721 | 58.00 | 121 | 69.95 | 511 | 79.90 | 862 |
| 46.00 | 40 | 59.90 | 687 | 71.90 | 315 | 80.90 | 3041 |
| 47.00 | 808 | 61.00 | 3778 | 73.00 | 3058 | 81.85 | 659 |
| 47.95 | 469 | 62.00 | 3968 | 74.00 | 12138 | 82.70 | 21 |

Average of 13.955 to 13.962 min.: 2w61632.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 82.90 | 44 | 103.85 | 441 | 116.85 | 441 | 136.90 | 42 |
| 86.10 | 85 | 104.70 | 34 | 117.85 | 309 | 140.00 | 39 |
| 86.95 | 2536 | 104.95 | 70 | 118.85 | 339 | 140.90 | 792 |
| 87.90 | 2826 | 105.80 | 388 | 124.00 | 23 | 141.75 | 82 |
| 90.80 | 296 | 106.80 | 79 | 127.80 | 228 | 142.10 | 20 |
| 91.95 | 1950 | 109.70 | 36 | 128.95 | 61 | 142.80 | 896 |
| 92.90 | 2891 | 110.75 | 101 | 129.85 | 241 | 144.00 | 60 |
| 94.00 | 8507 | 112.70 | 95 | 130.85 | 122 | 144.70 | 62 |
| 95.00 | 67136 | 114.60 | 26 | 134.70 | 44 | 145.75 | 80 |
| 96.00 | 4157 | 114.85 | 52 | 134.85 | 64 | 147.65 | 141 |
| 96.85 | 112 | 115.80 | 255 | 136.60 | 70 | 149.85 | 47 |

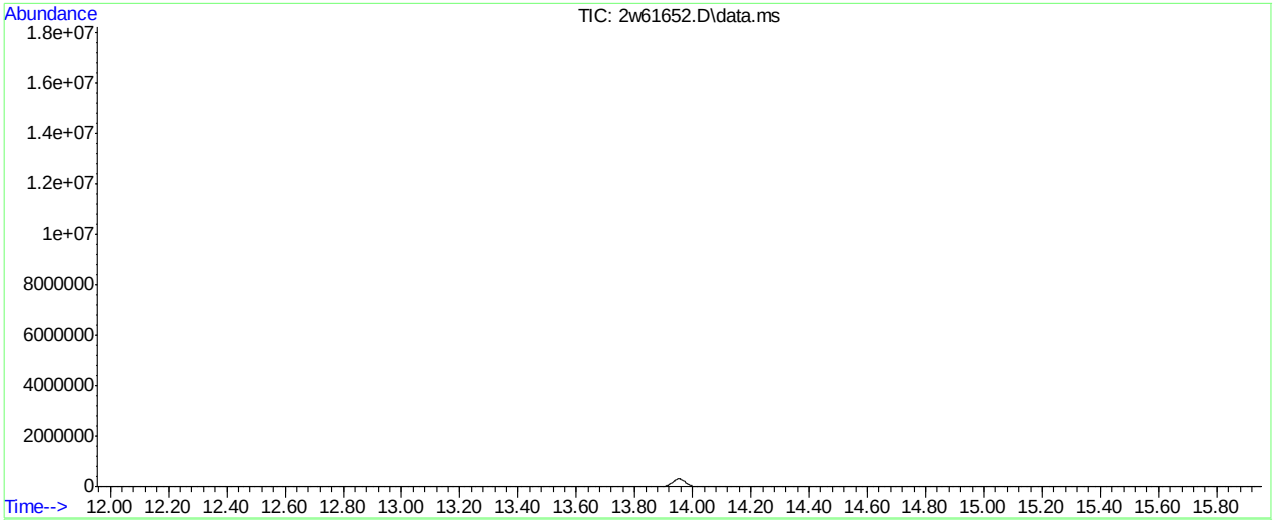
Average of 13.955 to 13.962 min.: 2w61632.D\data.ms
bfb
Modified:subtracted

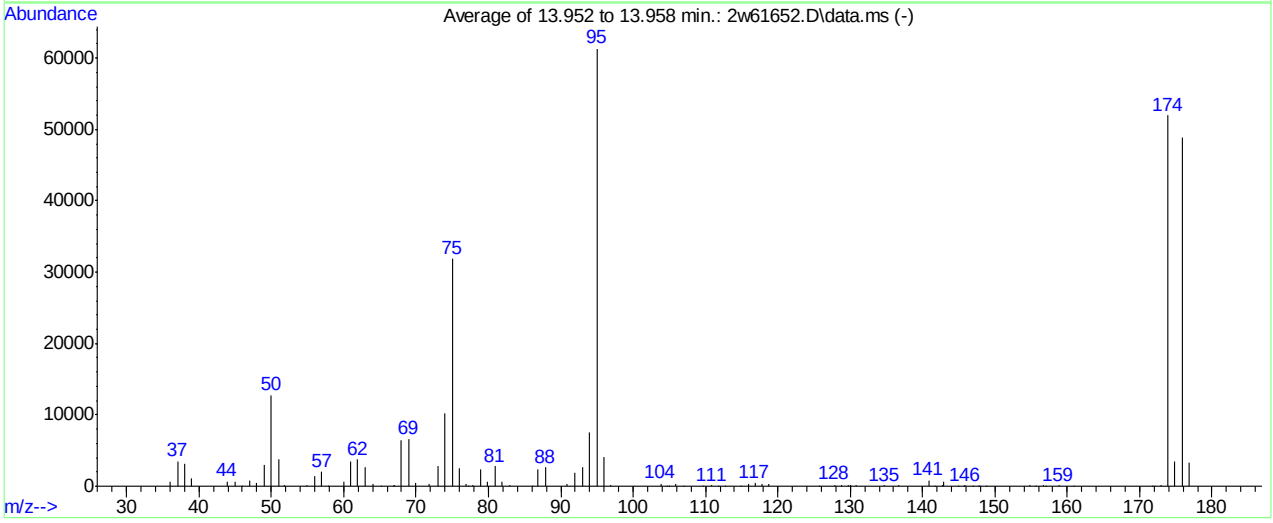
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 152.95 | 39 | 175.90 | 52349 | | | | |
| 154.85 | 138 | 176.85 | 3689 | | | | |
| 156.75 | 113 | 177.85 | 56 | | | | |
| 158.70 | 81 | | | | | | |
| 158.90 | 22 | | | | | | |
| 160.75 | 65 | | | | | | |
| 161.00 | 29 | | | | | | |
| 171.70 | 45 | | | | | | |
| 172.95 | 310 | | | | | | |
| 173.90 | 55933 | | | | | | |
| 174.90 | 3892 | | | | | | |

BFB

Data File : C:\msdchem\1\DATA\2w61652.D  Vial: 1
Acq On : 29 Sep 2022 7:11 am  Operator: thomash
Sample : bfb  Inst : MS2W
Misc : MS62557,V2w2736,,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um




AutoFind: Scans 4312, 4313, 4314; Background Corrected with Scan 4284

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 20.8 | 12788 | PASS |
| 75 | 95 | 30 | 66 | 51.9 | 31859 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 61363 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 4125 | PASS |
| 173 | 174 | 0.00 | 2 | 0.4 | 234 | PASS |
| 174 | 95 | 50 | 120 | 84.8 | 52013 | PASS |
| 175 | 174 | 4 | 9 | 6.5 | 3397 | PASS |
| 176 | 174 | 93 | 101 | 94.0 | 48915 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 3280 | PASS |

2w61652.D M2W2709.M Fri Sep 30 15:19:01 2022 GCMS2W

Average of 13.952 to 13.958 min.: 2w61652.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 35.95 | 557 | 51.00 | 3796 | 65.10 | 49 | 76.85 | 296 |
| 37.05 | 3540 | 51.85 | 117 | 66.80 | 65 | 77.20 | 62 |
| 38.05 | 3143 | 54.95 | 172 | 66.95 | 135 | 77.85 | 207 |
| 39.00 | 1152 | 56.00 | 1398 | 68.00 | 6491 | 78.85 | 2418 |
| 43.90 | 632 | 57.00 | 1986 | 69.00 | 6681 | 79.85 | 658 |
| 45.00 | 614 | 57.90 | 47 | 69.95 | 514 | 80.90 | 2796 |
| 45.95 | 46 | 59.95 | 648 | 71.80 | 270 | 81.80 | 574 |
| 47.00 | 783 | 61.00 | 3476 | 73.00 | 2773 | 82.90 | 103 |
| 48.00 | 426 | 61.95 | 3721 | 74.00 | 10293 | 86.00 | 47 |
| 49.00 | 2936 | 63.00 | 2676 | 75.00 | 31859 | 86.90 | 2438 |
| 50.00 | 12788 | 64.00 | 243 | 76.00 | 2570 | 87.90 | 2631 |

Average of 13.952 to 13.958 min.: 2w61652.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 90.80 | 322 | 106.90 | 54 | 127.85 | 203 | 144.90 | 21 |
| 91.95 | 1847 | 109.60 | 17 | 128.75 | 121 | 145.70 | 37 |
| 93.00 | 2698 | 110.85 | 118 | 129.80 | 149 | 145.90 | 103 |
| 94.00 | 7624 | 111.75 | 39 | 130.00 | 96 | 146.90 | 40 |
| 95.00 | 61363 | 112.75 | 49 | 130.85 | 124 | 147.70 | 55 |
| 96.00 | 4125 | 114.80 | 56 | 134.75 | 131 | 147.90 | 50 |
| 96.90 | 149 | 115.90 | 247 | 136.75 | 177 | 148.80 | 38 |
| 103.85 | 367 | 116.85 | 462 | 140.85 | 861 | 154.80 | 119 |
| 104.70 | 40 | 117.80 | 274 | 141.70 | 81 | 155.60 | 20 |
| 104.90 | 27 | 118.75 | 377 | 142.70 | 212 | 156.75 | 101 |
| 105.85 | 323 | 125.70 | 47 | 142.85 | 648 | 157.00 | 46 |

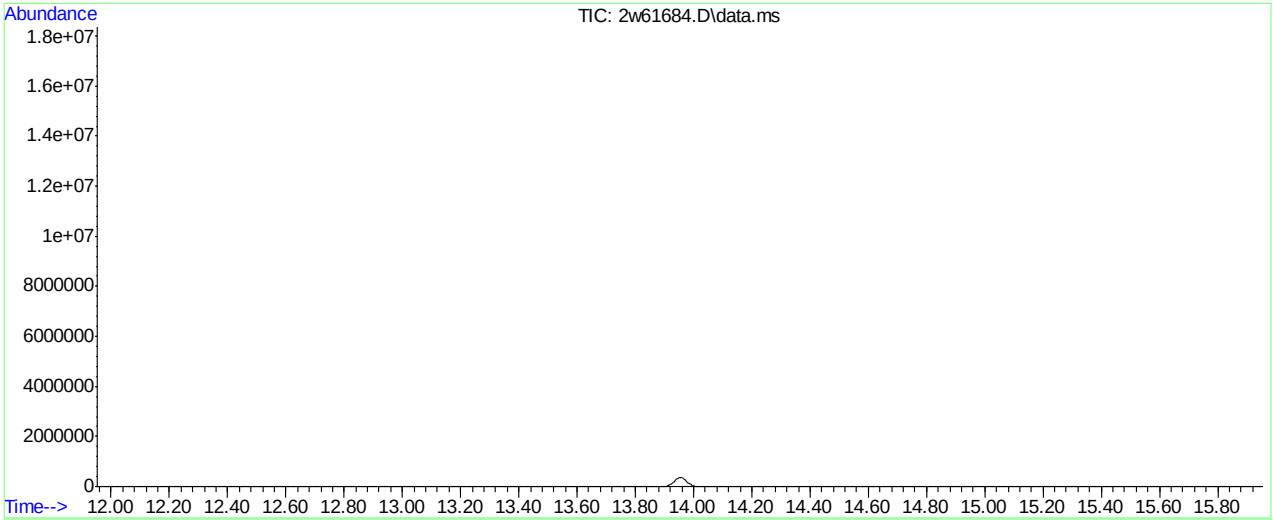
Average of 13.952 to 13.958 min.: 2w61652.D\data.ms
bfb
Modified:subtracted

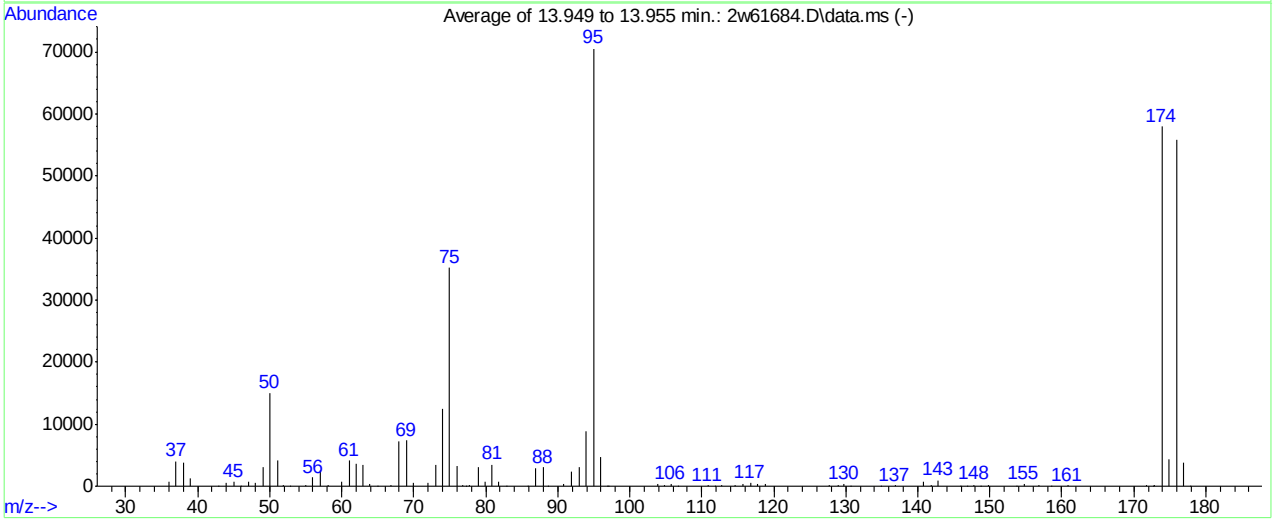
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 158.80 | 144 | | | | | | |
| 160.85 | 79 | | | | | | |
| 171.70 | 57 | | | | | | |
| 172.00 | 72 | | | | | | |
| 172.90 | 234 | | | | | | |
| 173.90 | 52013 | | | | | | |
| 174.85 | 3397 | | | | | | |
| 175.90 | 48915 | | | | | | |
| 176.90 | 3280 | | | | | | |

BFB

Data File : C:\msdchem\1\DATA\2w61684.D  Vial: 1
Acq On : 30 Sep 2022 7:04 am  Operator: thomash
Sample : bfb  Inst : MS2W
Misc : MS62556,V2w2737,,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um




AutoFind: Scans 4311, 4312, 4313; Background Corrected with Scan 4284

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 21.3 | 15039 | PASS |
| 75 | 95 | 30 | 66 | 49.8 | 35157 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 70539 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 4791 | PASS |
| 173 | 174 | 0.00 | 2 | 0.5 | 269 | PASS |
| 174 | 95 | 50 | 120 | 82.1 | 57936 | PASS |
| 175 | 174 | 4 | 9 | 7.4 | 4262 | PASS |
| 176 | 174 | 93 | 101 | 96.4 | 55877 | PASS |
| 177 | 176 | 5 | 9 | 6.9 | 3876 | PASS |

2w61684.D M2W2709.M Fri Sep 30 15:21:00 2022 GCMS2W

Average of 13.949 to 13.955 min.: 2w61684.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.05 | 705 | 50.00 | 15039 | 63.00 | 3378 | 76.00 | 3219 |
| 37.00 | 4067 | 51.05 | 4193 | 63.95 | 399 | 76.85 | 224 |
| 38.05 | 3874 | 51.95 | 154 | 64.90 | 88 | 77.30 | 71 |
| 39.00 | 1356 | 52.80 | 69 | 66.85 | 204 | 77.75 | 223 |
| 42.90 | 47 | 55.00 | 245 | 68.00 | 7277 | 78.90 | 3041 |
| 43.90 | 543 | 55.95 | 1387 | 69.00 | 7401 | 79.90 | 778 |
| 45.00 | 643 | 57.00 | 2567 | 69.95 | 534 | 80.90 | 3505 |
| 46.00 | 65 | 58.05 | 130 | 71.95 | 489 | 81.80 | 718 |
| 47.05 | 730 | 59.95 | 734 | 73.00 | 3417 | 82.85 | 59 |
| 47.95 | 474 | 61.00 | 4138 | 74.00 | 12461 | 85.90 | 25 |
| 49.05 | 3142 | 62.00 | 3709 | 75.00 | 35157 | 86.90 | 2884 |

Average of 13.949 to 13.955 min.: 2w61684.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 87.95 | 3011 | 104.75 | 112 | 127.75 | 255 | 147.80 | 207 |
| 88.70 | 66 | 105.75 | 357 | 128.90 | 156 | 148.65 | 53 |
| 90.85 | 431 | 106.70 | 52 | 129.75 | 281 | 149.85 | 119 |
| 91.95 | 2264 | 110.85 | 103 | 130.70 | 32 | 153.70 | 57 |
| 92.95 | 3015 | 111.80 | 23 | 134.80 | 88 | 154.75 | 292 |
| 93.95 | 8874 | 112.80 | 106 | 136.85 | 145 | 156.85 | 153 |
| 95.00 | 70539 | 114.70 | 118 | 140.85 | 792 | 158.60 | 25 |
| 96.00 | 4791 | 115.75 | 283 | 141.90 | 108 | 160.80 | 109 |
| 96.90 | 65 | 116.80 | 539 | 142.85 | 932 | 171.80 | 150 |
| 97.10 | 83 | 117.75 | 282 | 145.85 | 75 | 172.70 | 46 |
| 103.85 | 348 | 118.80 | 379 | 146.80 | 53 | 172.85 | 269 |

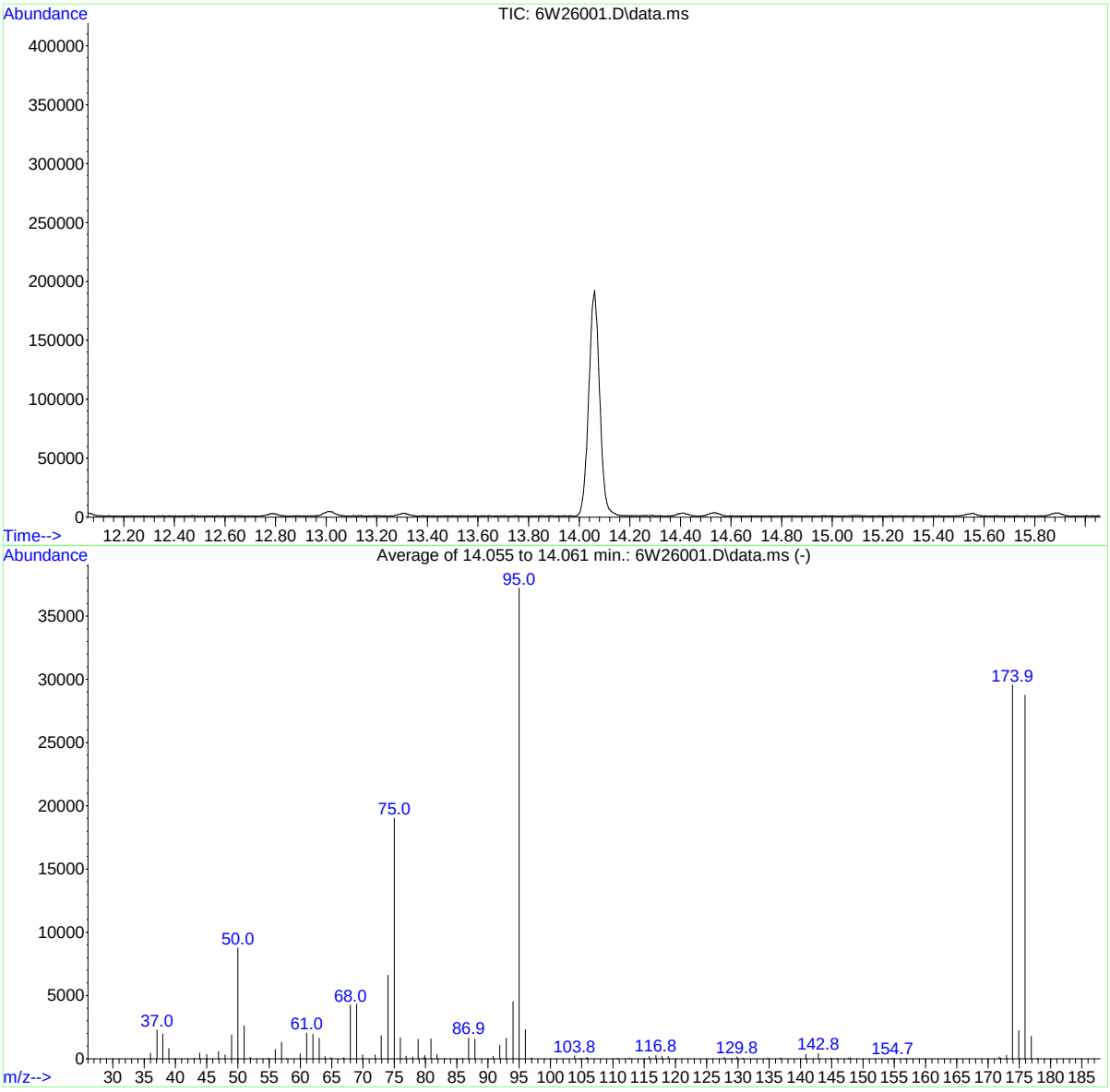
Average of 13.949 to 13.955 min.: 2w61684.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 173.90 | 57936 | | | | | | |
| 174.90 | 4262 | | | | | | |
| 175.90 | 55877 | | | | | | |
| 176.85 | 3876 | | | | | | |
| 177.80 | 69 | | | | | | |

BFB

Data File : C:\msdchem\1\data\6W26001.D  Vial: 1
Acq On : 15 Sep 2022 9:18 am  Operator: thomash
Sample : bfb  Inst : GCMS6W
Misc : MS62094,V6W1105,,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1105.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um




AutoFind: Scans 4344, 4345, 4346; Background Corrected with Scan 4318

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 23.5 | 8757 | PASS |
| 75 | 95 | 30 | 66 | 51.1 | 19024 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 37205 | PASS |
| 96 | 95 | 5 | 9 | 6.2 | 2301 | PASS |
| 173 | 174 | 0.00 | 2 | 0.9 | 272 | PASS |
| 174 | 95 | 50 | 120 | 79.4 | 29547 | PASS |
| 175 | 174 | 4 | 9 | 7.6 | 2242 | PASS |
| 176 | 174 | 93 | 101 | 97.3 | 28755 | PASS |
| 177 | 176 | 5 | 9 | 6.2 | 1772 | PASS |

6W26001.D M6W1105.M Mon Sep 19 16:10:00 2022

Average of 14.055 to 14.061 min.: 6W26001.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.00 | 418 | 50.00 | 8757 | 63.95 | 161 | 76.90 | 208 |
| 37.05 | 2271 | 51.00 | 2611 | 64.90 | 96 | 77.95 | 149 |
| 38.00 | 1955 | 52.00 | 102 | 66.95 | 99 | 78.85 | 1543 |
| 38.95 | 807 | 54.90 | 61 | 68.00 | 4231 | 79.70 | 94 |
| 39.90 | 22 | 56.00 | 736 | 69.00 | 4310 | 79.90 | 242 |
| 43.00 | 23 | 57.00 | 1293 | 69.95 | 312 | 80.90 | 1550 |
| 43.90 | 454 | 57.80 | 19 | 71.95 | 308 | 81.85 | 342 |
| 45.00 | 337 | 59.95 | 387 | 72.95 | 1843 | 83.10 | 23 |
| 46.90 | 560 | 61.00 | 2041 | 74.00 | 6598 | 85.90 | 19 |
| 47.95 | 306 | 62.00 | 1930 | 75.00 | 19024 | 86.90 | 1646 |
| 49.00 | 1887 | 63.00 | 1619 | 76.00 | 1657 | 87.90 | 1558 |

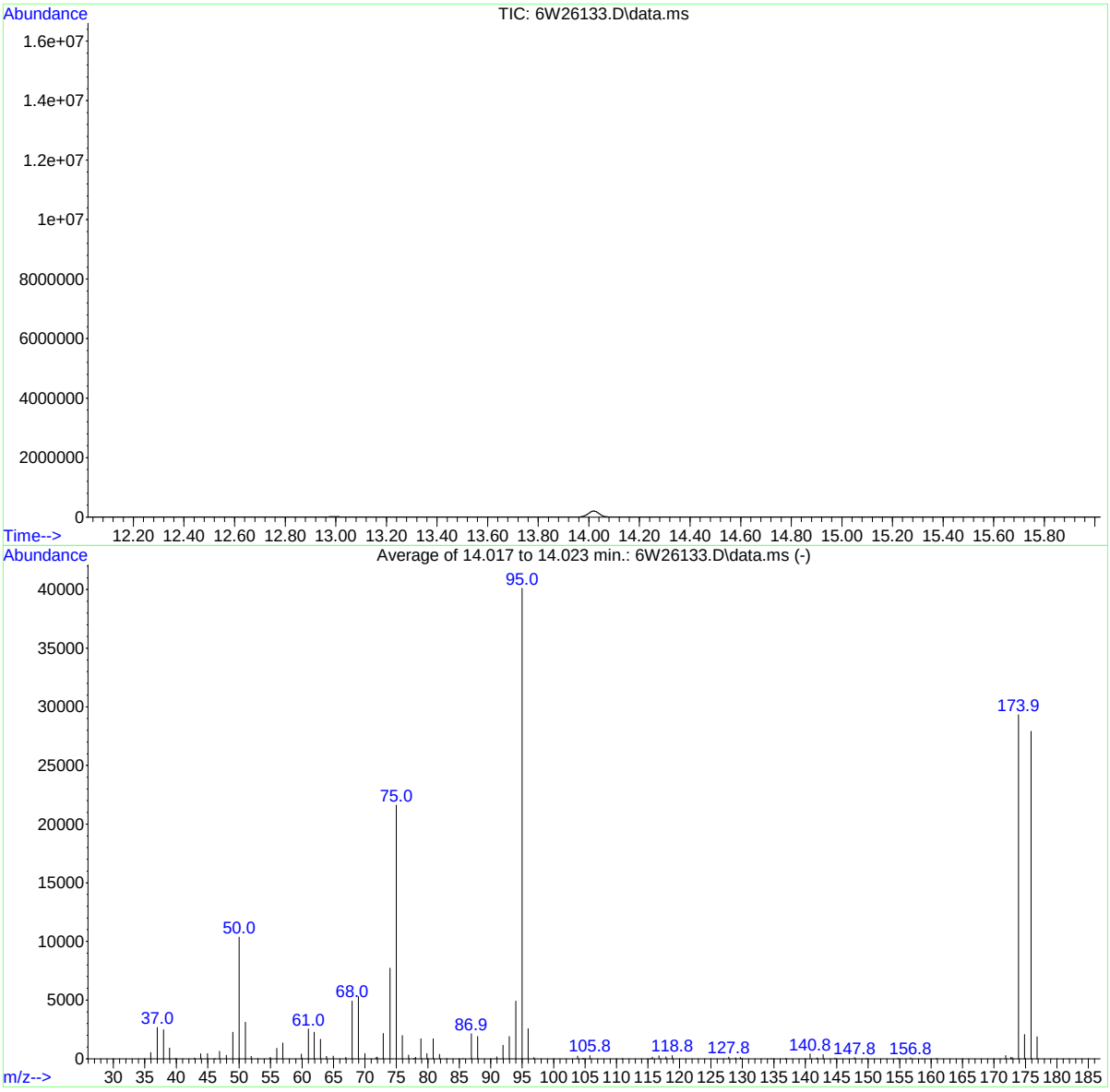
Average of 14.055 to 14.061 min.: 6W26001.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 90.80 | 197 | 110.75 | 56 | 136.80 | 70 | 172.00 | 50 |
| 91.90 | 1064 | 112.65 | 49 | 140.85 | 355 | 172.95 | 272 |
| 92.95 | 1627 | 115.80 | 174 | 142.85 | 413 | 173.90 | 29547 |
| 94.00 | 4510 | 116.85 | 242 | 144.85 | 43 | 174.90 | 2242 |
| 95.00 | 37205 | 117.85 | 173 | 145.90 | 38 | 175.90 | 28755 |
| 96.00 | 2301 | 118.85 | 177 | 147.65 | 51 | 176.90 | 1772 |
| 96.95 | 65 | 127.80 | 134 | 147.95 | 73 | 177.90 | 52 |
| 103.85 | 234 | 128.90 | 17 | 154.70 | 44 | | |
| 104.75 | 42 | 129.85 | 145 | 155.00 | 20 | | |
| 105.70 | 61 | 130.80 | 50 | 156.80 | 40 | | |
| 105.85 | 118 | 134.75 | 69 | 171.80 | 136 | | |

BFB

Data File : C:\msdchem\1\data\6W26133.D  Vial: 1
Acq On : 29 Sep 2022 9:55 am  Operator: thomash
Sample : bfb  Inst : GCMS6W
Misc : MS62314,V6W1111,,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1105.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um




AutoFind: Scans 4332, 4333, 4334; Background Corrected with Scan 4306

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 25.9 | 10378 | PASS |
| 75 | 95 | 30 | 66 | 53.9 | 21616 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 40109 | PASS |
| 96 | 95 | 5 | 9 | 6.4 | 2549 | PASS |
| 173 | 174 | 0.00 | 2 | 0.4 | 116 | PASS |
| 174 | 95 | 50 | 120 | 73.1 | 29323 | PASS |
| 175 | 174 | 4 | 9 | 7.1 | 2071 | PASS |
| 176 | 174 | 93 | 101 | 95.2 | 27925 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 1875 | PASS |

6W26133.D M6W1105.M Fri Sep 30 13:33:39 2022

Average of 14.017 to 14.023 min.: 6W26133.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 35.95 | 524 | 49.00 | 2264 | 62.95 | 1652 | 75.00 | 21616 |
| 37.00 | 2663 | 50.00 | 10378 | 63.90 | 206 | 75.95 | 1974 |
| 38.00 | 2479 | 51.00 | 3123 | 64.95 | 222 | 76.95 | 314 |
| 38.95 | 915 | 51.90 | 208 | 66.95 | 116 | 77.80 | 55 |
| 39.90 | 36 | 53.00 | 17 | 67.95 | 4905 | 78.05 | 109 |
| 42.90 | 56 | 54.95 | 117 | 68.95 | 5289 | 78.90 | 1695 |
| 43.90 | 417 | 56.00 | 894 | 70.00 | 447 | 79.85 | 448 |
| 44.95 | 447 | 56.95 | 1344 | 71.80 | 100 | 80.85 | 1693 |
| 46.20 | 17 | 59.90 | 399 | 71.95 | 142 | 81.85 | 368 |
| 46.90 | 633 | 61.00 | 2539 | 72.90 | 2146 | 83.00 | 21 |
| 47.95 | 284 | 61.95 | 2251 | 74.00 | 7706 | 85.60 | 20 |

Average of 14.017 to 14.023 min.: 6W26133.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 86.90 | 2135 | 104.80 | 34 | 129.90 | 32 | 158.60 | 18 |
| 87.90 | 1904 | 105.75 | 274 | 134.60 | 20 | 160.90 | 41 |
| 90.95 | 168 | 110.90 | 19 | 136.90 | 25 | 171.85 | 260 |
| 91.95 | 1143 | 115.40 | 29 | 140.75 | 412 | 172.70 | 116 |
| 92.95 | 1904 | 115.70 | 138 | 141.85 | 68 | 172.90 | 107 |
| 94.00 | 4902 | 116.75 | 238 | 142.85 | 361 | 173.90 | 29323 |
| 95.00 | 40109 | 117.85 | 161 | 144.70 | 61 | 174.85 | 2071 |
| 95.95 | 2549 | 118.85 | 262 | 147.85 | 106 | 175.90 | 27925 |
| 96.85 | 95 | 127.85 | 142 | 149.70 | 29 | 176.85 | 1875 |
| 103.80 | 217 | 128.90 | 66 | 154.75 | 41 | | |
| 104.60 | 20 | 129.65 | 113 | 156.75 | 70 | | |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 05/11/22 16:55

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58806.D
Acq On : 26 Apr 2022 1:14 pm
Operator : thomash
Sample : ic2619-0.04
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 14:41:32 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.467 | 128 | 262405 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.846 | 114 | 1634490 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.637 | 117 | 1615392 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.052 | 95 | 1118420 | 9.27 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) FREON 115 | 1.782 | 119 | 2505 | 0.05 | PPBV | # | 100 |
| 4) CHLORODIFLUOROMETHANE | 1.827 | 67 | 595 | 0.04 | PPBV | # | 39 |
| 5) CHLOROTRIFLUOROETHENE | 1.840 | 116 | 2571 | 0.04 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.856 | 85 | 6056m | 0.04 | PPBV | | |
| 7) PROPYLENE | 1.840 | 41 | 2857 | 0.05 | PPBV | | 90 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.895 | 65 | 3899 | 0.04 | PPBV | # | 1 |
| 9) FREON 114 | 1.927 | 85 | 4673 | 0.04 | PPBV | | 92 |
| 10) CHLOROMETHANE | 1.895 | 52 | 1076 | 0.07 | PPBV | | 92 |
| 11) VINYL CHLORIDE | 1.953 | 62 | 2149 | 0.04 | PPBV | # | 90 |
| 12) 1,3-BUTADIENE | 1.978 | 54 | 2134 | 0.05 | PPBV | # | 53 |
| 13) N-BUTANE | 2.004 | 43 | 5523 | 0.06 | PPBV | # | 86 |
| 14) BROMOMETHANE | 2.065 | 94 | 1725 | 0.05 | PPBV | # | 95 |
| 15) CHLOROETHANE | 2.104 | 64 | 1046 | 0.04 | PPBV | # | 43 |
| 16) DICHLOROFLUOROMETHANE | 2.130 | 67 | 4102 | 0.05 | PPBV | # | 89 |
| 17) ACETONITRILE | 2.197 | 41 | 2596 | 0.05 | PPBV | # | 55 |
| 18) ACROLEIN | 2.229 | 56 | 1190 | 0.05 | PPBV | # | 83 |
| 19) FREON 123 | 2.249 | 83 | 3620 | 0.04 | PPBV | | 95 |
| 20) FREON 123A | 2.258 | 117 | 2326 | 0.04 | PPBV | | 99 |
| 21) TRICHLOROFLUOROMETHANE | 2.322 | 101 | 4518 | 0.04 | PPBV | | 96 |
| 22) ISOPROPYL ALCOHOL | 2.339 | 45 | 6254 | 0.05 | PPBV | # | 89 |
| 24) PENTANE | 2.429 | 42 | 2894 | 0.05 | PPBV | | 98 |
| 25) IODOMETHANE | 2.486 | 142 | 3822 | 0.04 | PPBV | # | 83 |
| 26) 1,1-DICHLOROETHYLENE | 2.515 | 96 | 1599 | 0.04 | PPBV | # | 51 |
| 27) CARBON DISULFIDE | 2.650 | 76 | 4424 | 0.04 | PPBV | # | 87 |
| 29) BROMOETHENE | 2.204 | 106 | 1507 | 0.04 | PPBV | # | 95 |
| 30) ACRYLONITRILE | 2.406 | 52 | 2086 | 0.05 | PPBV | | 93 |
| 32) 3-CHLOROPROPENE | 2.586 | 76 | 740 | 0.04 | PPBV | # | 1 |
| 33) FREON 113 | 2.660 | 151 | 2376 | 0.04 | PPBV | | 85 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.908 | 96 | 1675m | 0.04 | PPBV | | |
| 35) TERTIARY BUTYL ALCOHOL | 2.544 | 59 | 4322 | 0.04 | PPBV | # | 86 |
| 36) METHYL TERTIARY BUTYL ... | 3.023 | 73 | 4586 | 0.04 | PPBV | # | 72 |
| 37) TETRAHYDROFURAN | 3.789 | 72 | 749 | 0.04 | PPBV | # | 1 |
| 38) HEXANE | 3.528 | 57 | 3950 | 0.04 | PPBV | # | 58 |
| 40) 1,1-DICHLOROETHANE | 2.985 | 63 | 3173 | 0.04 | PPBV | # | 90 |
| 41) METHYL ETHYL KETONE | 3.175 | 72 | 864 | 0.05 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.387 | 96 | 1632 | 0.04 | PPBV | # | 77 |
| 43) DIISOPROPYL ETHER | 3.531 | 59 | 1053 | 0.04 | PPBV | # | 30 |
| 44) ETHYL ACETATE | 3.535 | 61 | 684 | 0.04 | PPBV | # | 1 |
| 45) METHYL ACRYLATE | 3.515 | 55 | 4830 | 0.04 | PPBV | # | 96 |
| 46) CHLOROFORM | 3.544 | 83 | 3548 | 0.04 | PPBV | # | 88 |
| 47) 2,4-DIMETHYLPENTANE | 4.072 | 57 | 4313 | 0.04 | PPBV | # | 84 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58806.D
Acq On : 26 Apr 2022 1:14 pm
Operator : thomash
Sample : ic2619-0.04
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 14:41:32 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 48) | 1,1,1-TRICHLOROETHANE | 4.171 | 97 | 3581 | 0.04 | PPBV | | 91 |
| 49) | CARBON TETRACHLORIDE | 4.615 | 117 | 3397 | 0.03 | PPBV | | 95 |
| 50) | 1,2-DICHLOROETHANE | 3.988 | 62 | 2630 | 0.04 | PPBV | # | 89 |
| 51) | BENZENE | 4.499 | 78 | 4753 | 0.04 | PPBV | # | 55 |
| 53) | CYCLOHEXANE | 4.721 | 84 | 2472 | 0.04 | PPBV | # | 40 |
| 54) | 2,3-DIMETHYLPENTANE | 4.985 | 71 | 1295 | 0.04 | PPBV | # | 8 |
| 55) | TRICHLOROETHENE | 5.448 | 95 | 2396 | 0.04 | PPBV | | 97 |
| 56) | 1,2-DICHLOROPROPANE | 5.210 | 63 | 3276 | 0.05 | PPBV | # | 84 |
| 57) | DIBROMOMETHANE | 5.168 | 174 | 2856 | 0.06 | PPBV | # | 84 |
| 58) | ETHYL ACRYLATE | 5.342 | 55 | 6804 | 0.04 | PPBV | # | 87 |
| 59) | BROMODICHLOROMETHANE | 5.396 | 83 | 4076 | 0.04 | PPBV | | 96 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.547 | 57 | 14019 | 0.04 | PPBV | # | 90 |
| 61) | 1,4-DIOXANE | 5.506 | 88 | 1446 | 0.05 | PPBV | # | 76 |
| 62) | HEPTANE | 5.875 | 43 | 6112 | 0.04 | PPBV | # | 62 |
| 63) | METHYL METHACRYLATE | 5.789 | 69 | 2401 | 0.04 | PPBV | # | 33 |
| 64) | METHYL ISOBUTYL KETONE | 6.554 | 58 | 2692 | 0.04 | PPBV | # | 68 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.438 | 75 | 3174 | 0.04 | PPBV | # | 55 |
| 66) | TOLUENE | 7.689 | 91 | 6720 | 0.04 | PPBV | | 100 |
| 67) | 1,3-DICHLOROPROPANE | 7.750 | 76 | 3419 | 0.04 | PPBV | # | 90 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.145 | 75 | 2919 | 0.04 | PPBV | # | 60 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.306 | 83 | 1837 | 0.04 | PPBV | | 88 |
| 70) | 2-HEXANONE | 8.293 | 58 | 3100 | 0.04 | PPBV | # | 54 |
| 71) | ETHYL METHACRYLATE | 8.419 | 69 | 3320 | 0.03 | PPBV | # | 30 |
| 72) | TETRACHLOROETHENE | 9.473 | 164 | 2391 | 0.04 | PPBV | # | 53 |
| 73) | DIBROMOCHLOROMETHANE | 8.251 | 129 | 3980 | 0.04 | PPBV | | 96 |
| 74) | 1,2-DIBROMOETHANE | 8.605 | 107 | 3478 | 0.04 | PPBV | # | 94 |
| 75) | OCTANE | 9.608 | 43 | 7793 | 0.04 | PPBV | # | 68 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.718 | 131 | 3231 | 0.04 | PPBV | | 92 |
| 78) | CHLOROBENZENE | 10.708 | 112 | 6106 | 0.04 | PPBV | | 98 |
| 79) | ETHYLBENZENE | 11.608 | 91 | 8920 | 0.03 | PPBV | | 100 |
| 80) | M,P-XYLENE | 12.039 | 91 | 13886m | 0.07 | PPBV | | |
| 81) | O-XYLENE | 12.988 | 91 | 6892 | 0.03 | PPBV | # | 88 |
| 82) | STYRENE | 12.772 | 104 | 4752 | 0.03 | PPBV | | 94 |
| 83) | NONANE | 14.113 | 43 | 9217 | 0.04 | PPBV | # | 17 |
| 84) | BROMOFORM | 11.849 | 173 | 2995 | 0.03 | PPBV | # | 93 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 12.997 | 83 | 4787 | 0.03 | PPBV | # | 96 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.300 | 75 | 3614 | 0.03 | PPBV | # | 99 |
| 88) | ISOPROPYLBENZENE | 14.505 | 120 | 2609 | 0.03 | PPBV | # | 75 |
| 89) | BROMOBENZENE | 14.393 | 77 | 4790 | 0.03 | PPBV | | 88 |
| 90) | 2-CHLOROTOLUENE | 15.534 | 126 | 2067 | 0.03 | PPBV | | 94 |
| 91) | N-PROPYLBENZENE | 15.865 | 120 | 2329 | 0.03 | PPBV | # | 62 |
| 92) | 4-ETHYLTOLUENE | 16.203 | 105 | 8794 | 0.03 | PPBV | # | 95 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.354 | 105 | 7097 | 0.03 | PPBV | # | 95 |
| 94) | ALPHA-METHYLSTYRENE | 16.550 | 118 | 3604 | 0.03 | PPBV | | 96 |
| 95) | TERT-BUTYLBENZENE | 16.798 | 134 | 1825 | 0.03 | PPBV | | 89 |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.807 | 105 | 6902 | 0.03 | PPBV | | 93 |
| 98) | M-DICHLOROBENZENE | 16.865 | 146 | 3983m | 0.03 | PPBV | | |
| 99) | P-DICHLOROBENZENE | 16.946 | 146 | 4345 | 0.03 | PPBV | | 91 |
| 100) | O-DICHLOROBENZENE | 17.238 | 146 | 3847 | 0.03 | PPBV | # | 92 |
| 101) | SEC-BUTYLBENZENE | 17.078 | 134 | 2237 | 0.03 | PPBV | | 88 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58806.D
Acq On : 26 Apr 2022 1:14 pm
Operator : thomash
Sample : ic2619-0.04
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 14:41:32 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

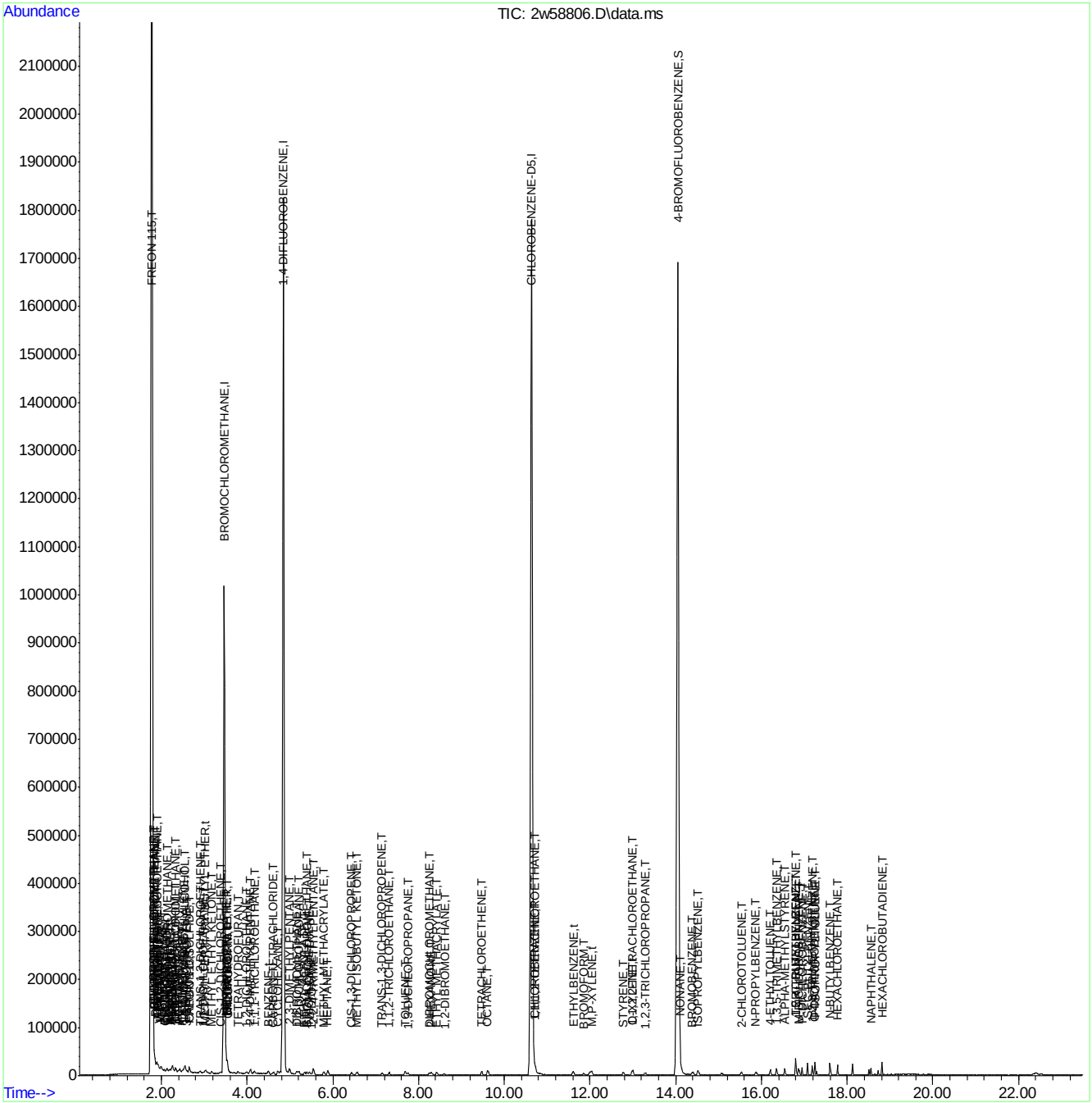
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 102) 1,2,3-TRIMETHYLBENZENE | 17.187 | 105 | 7379 | 0.03 | PPBV | | 99 |
| 103) P-ISOPROPYLTOLUENE | 17.251 | 134 | 2224 | 0.03 | PPBV | | 90 |
| 104) N-BUTYLBENZENE | 17.595 | 134 | 1824 | 0.03 | PPBV | | 81 |
| 105) HEXACHLOROETHANE | 17.775 | 117 | 2761 | 0.03 | PPBV | # | 87 |
| 106) HEXACHLOROBUTADIENE | 18.814 | 225 | 2336 | 0.03 | PPBV | | 95 |
| 108) NAPHTHALENE | 18.557 | 128 | 5810 | 0.02 | PPBV | | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58806.D
Acq On : 26 Apr 2022 1:14 pm
Operator : thomash
Sample : ic2619-0.04
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 14:41:32 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



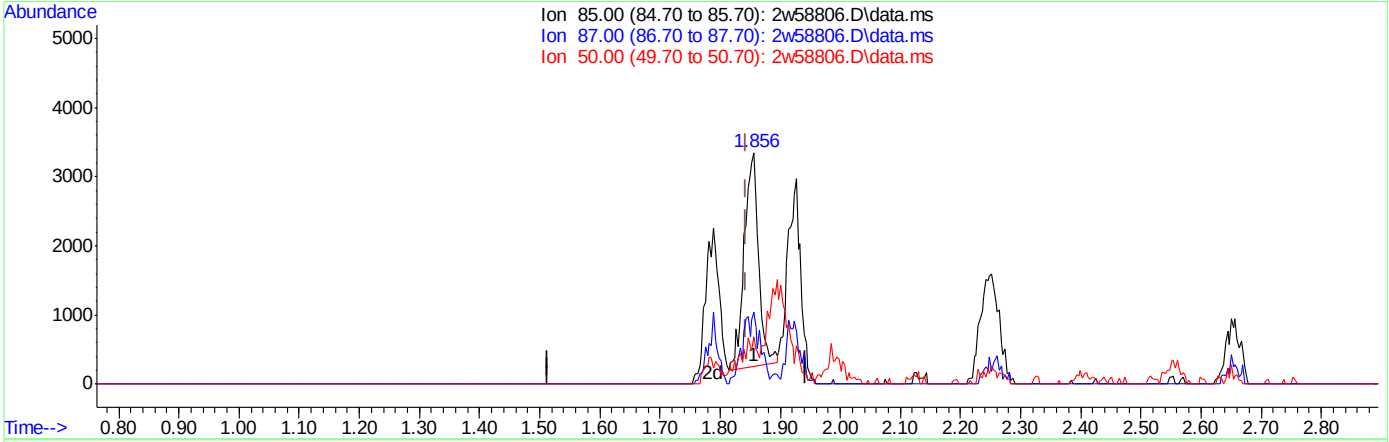
**Sample Number:** V2W2619-IC2619
**Lab FileID:** 2W58806.D
**Injection Time:** 04/26/22 13:14
**Method:** TO-15
**Analyst approved:** 05/11/22 16:26 Thomas Hilbig
**Supervisor approved:** 05/11/22 16:55 Kanya Veerawat

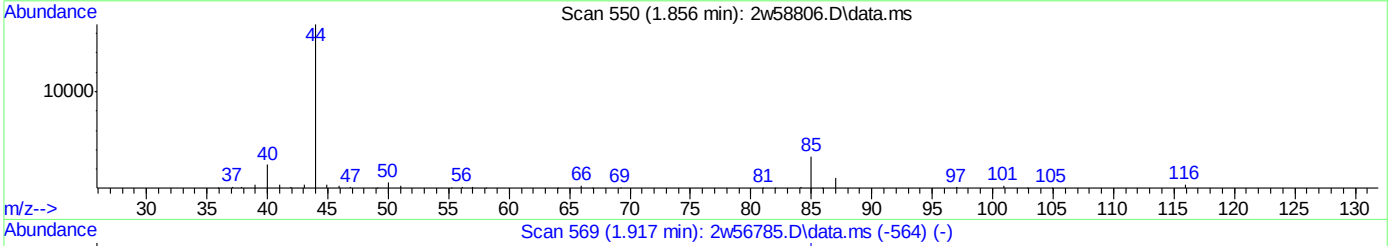
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.86 | Poorly defined baseline |
| trans-1,2-Dichloroethylene | 156-60-5 | | 2.91 | Missed peak |
| m,p-Xylene | | | 12.04 | Split peak |
| m-Dichlorobenzene | 541-73-1 | | 16.87 | Missed peak |

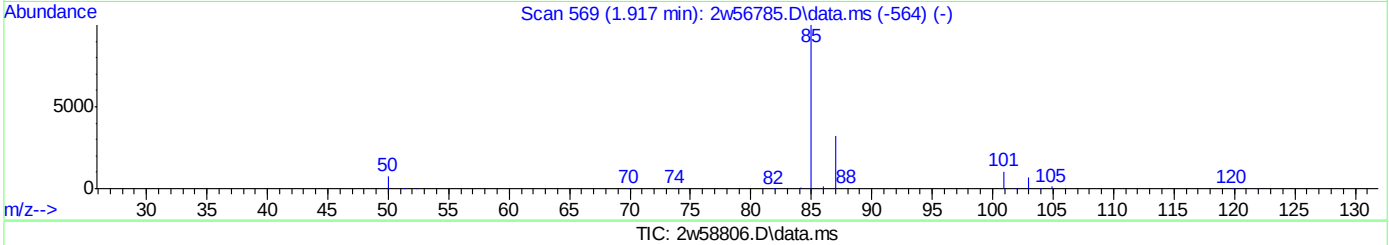
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58806.D
Acq On : 26 Apr 2022 1:14 pm
Operator : thomash
Sample : ic2620-0.04
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 08:58:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58806.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.856min (+0.013) 0.04PPBV

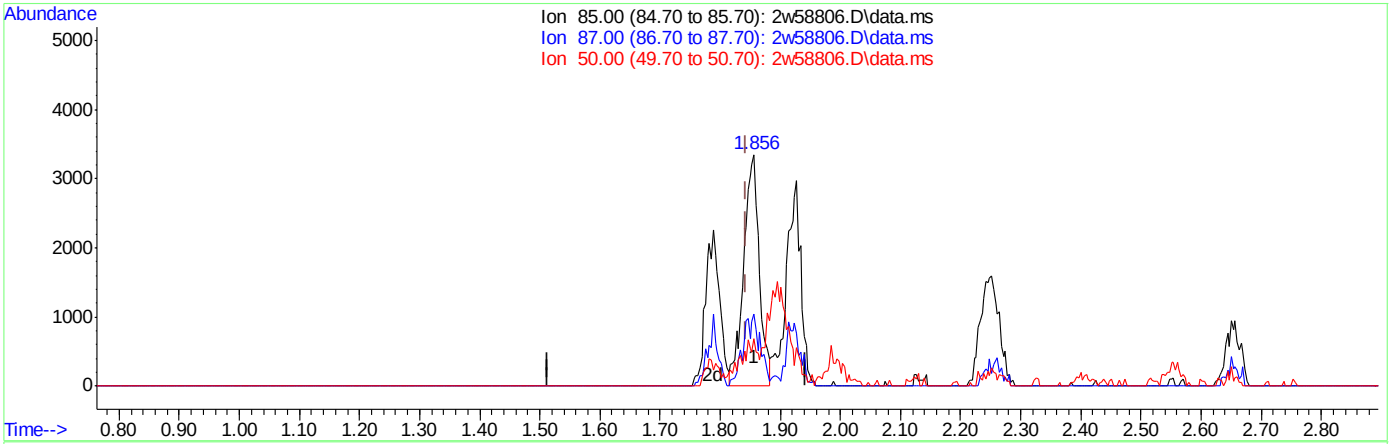
response 5160

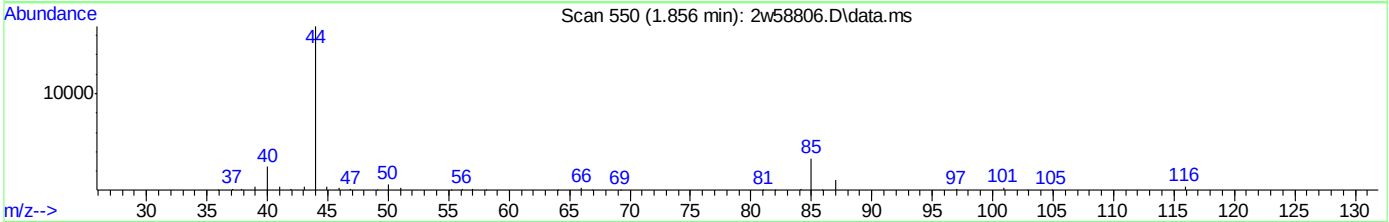
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 41.22# |
| 50.00 | 9.30 | 16.10# |
| 0.00 | 0.00 | 0.00 |

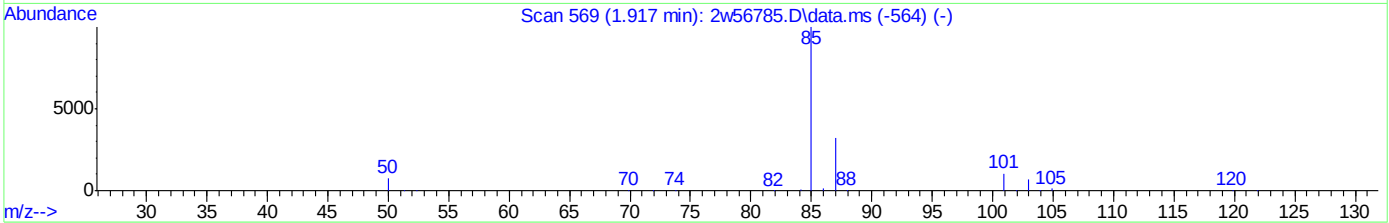
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58806.D
Acq On : 26 Apr 2022 1:14 pm
Operator : thomash
Sample : ic2620-0.04
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 08:58:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58806.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.856min (+0.013) 0.04PPBV m

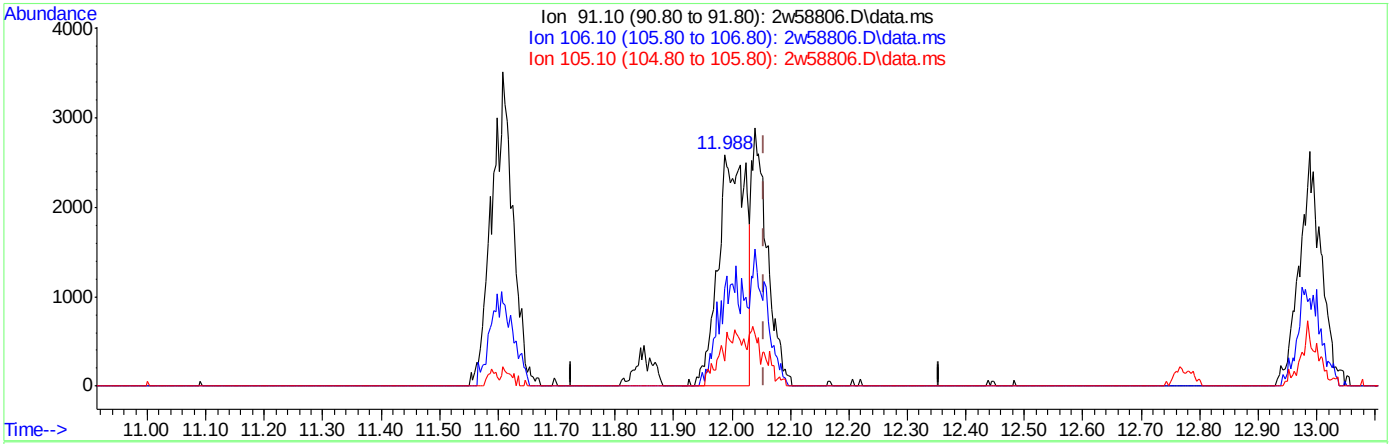
response 6056

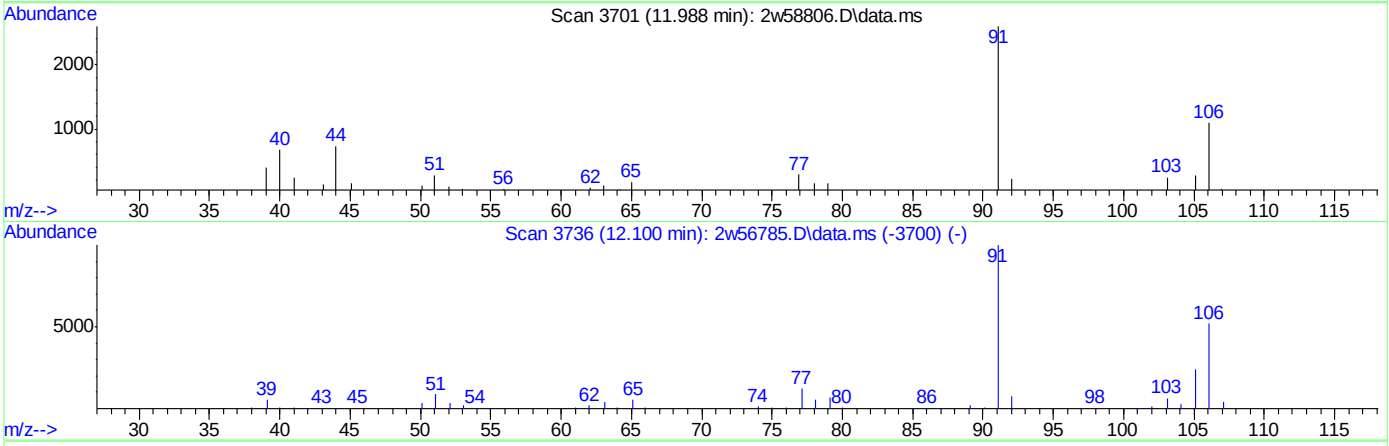
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 35.12 |
| 50.00 | 9.30 | 13.72# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58806.D
Acq On : 26 Apr 2022 1:14 pm
Operator : thomash
Sample : ic2620-0.04
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 08:58:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration







TIC: 2w58806.D\data.ms

(80) M,P-XYLENE (t)

11.988min (-0.068) 0.04PPBV

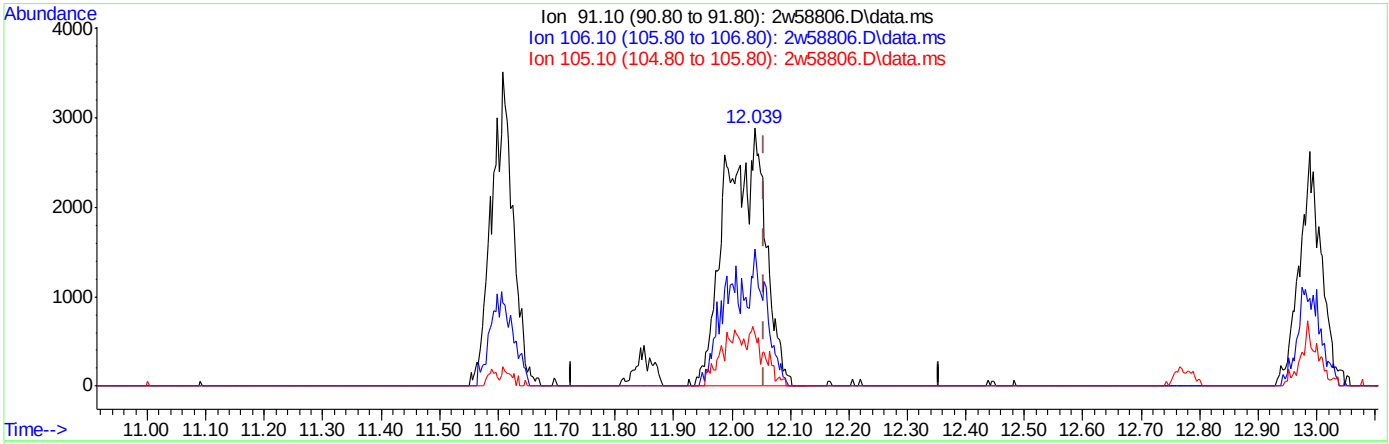
response 8453

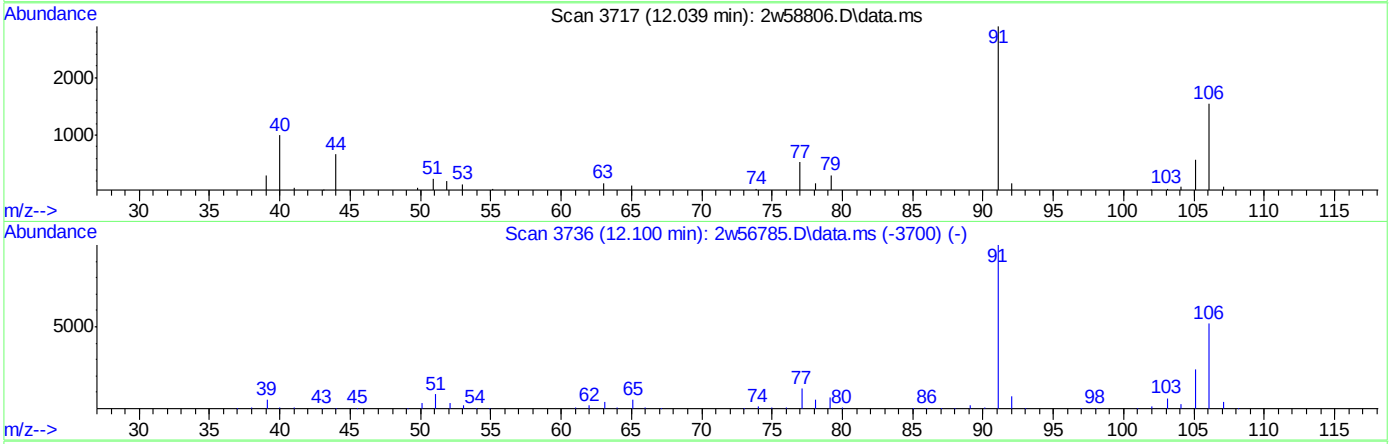
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 32.86 |
| 105.10 | 23.60 | 19.86 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58806.D
Acq On : 26 Apr 2022 1:14 pm
Operator : thomash
Sample : ic2620-0.04
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 08:58:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration







TIC: 2w58806.D\data.ms

(80) M,P-XYLENE (t)

12.039min (-0.016) 0.07PPBV m

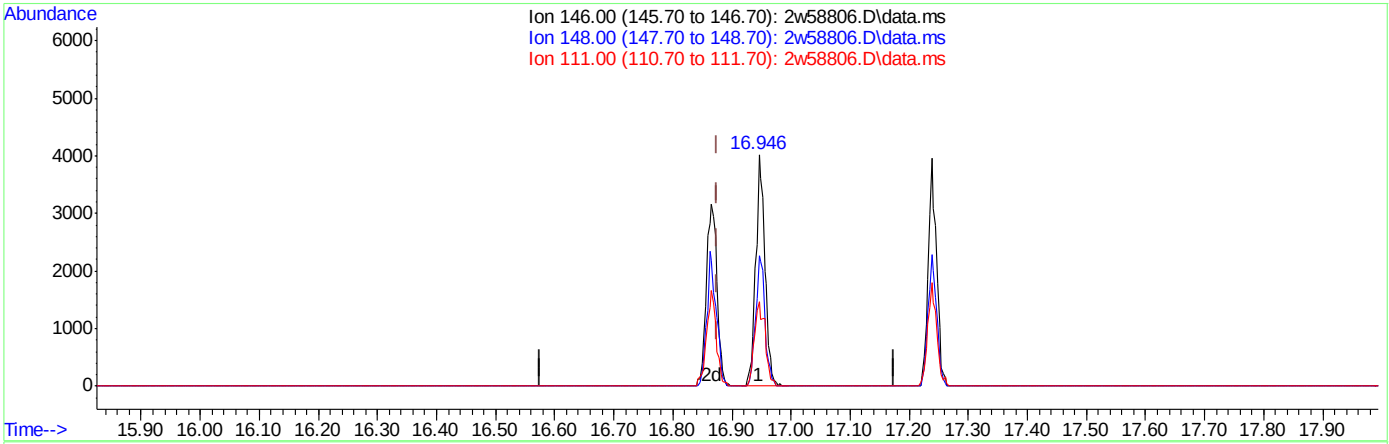
response 13886

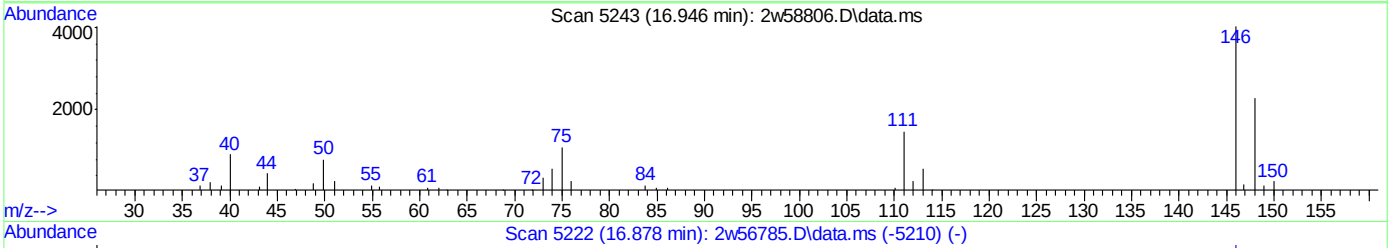
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 20.01# |
| 105.10 | 23.60 | 12.09 |
| 0.00 | 0.00 | 0.00 |

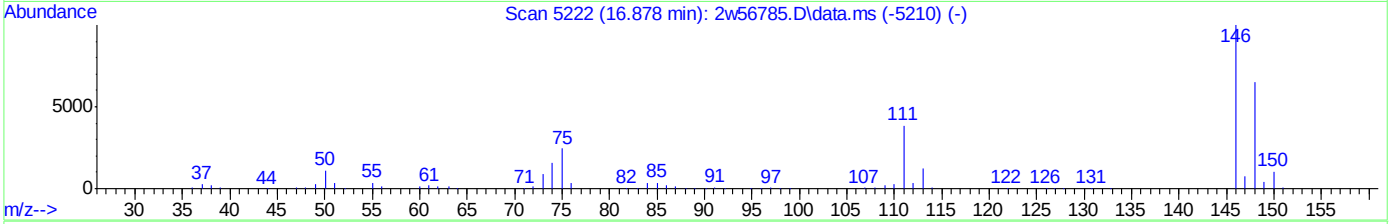
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58806.D
Acq On : 26 Apr 2022 1:14 pm
Operator : thomash
Sample : ic2620-0.04
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 08:58:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58806.D\data.ms

(98) M-DICHLOROBENZENE (T)

16.946min (+0.071) 0.03PPBV

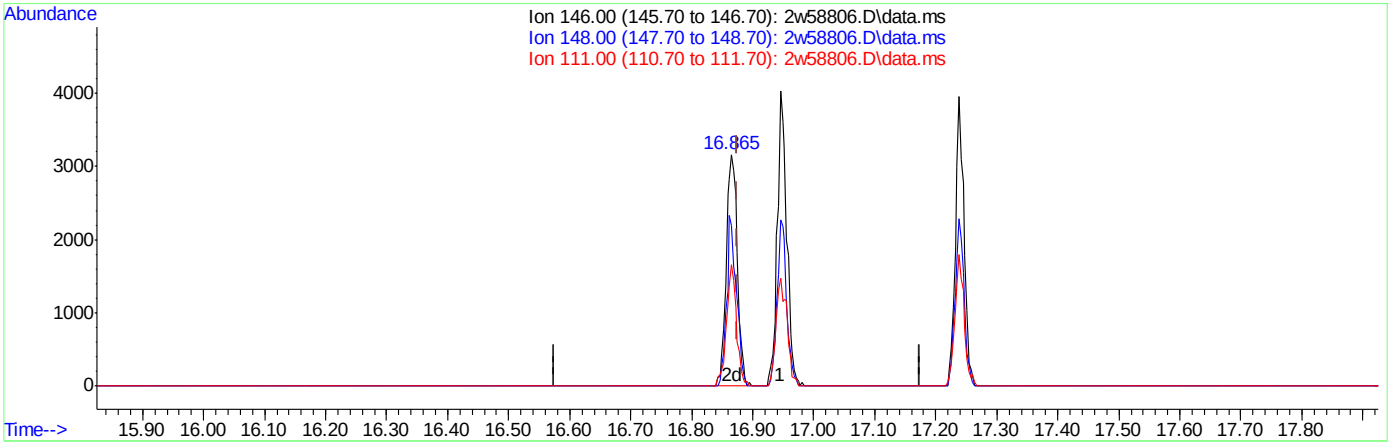
response 4346

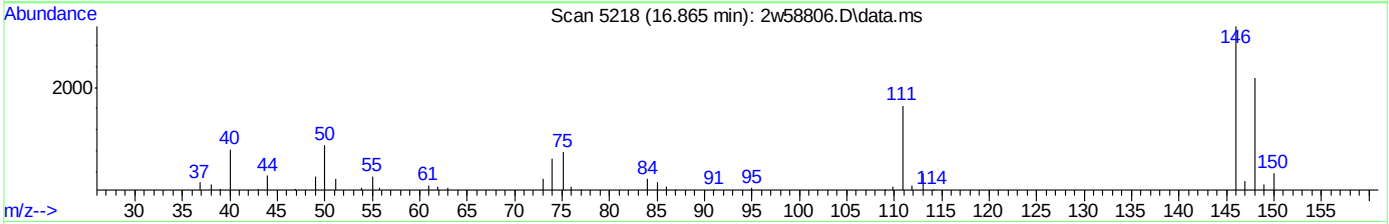
| Ion | Exp% | Act% |
|---|---|---|
| 146.00 | 100 | 100 |
| 148.00 | 63.80 | 57.04 |
| 111.00 | 38.20 | 42.36 |
| 0.00 | 0.00 | 0.00 |

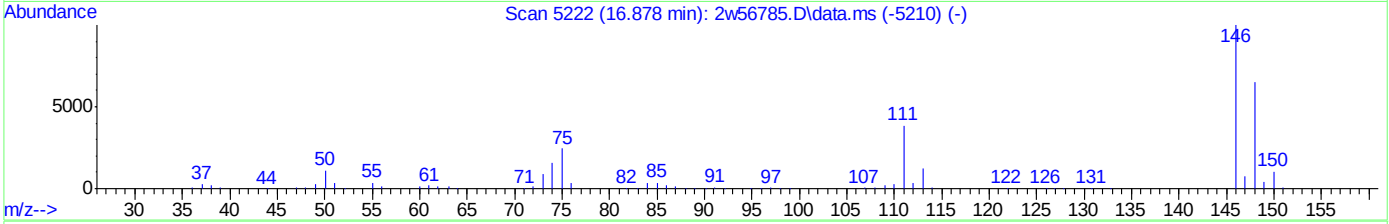
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58806.D
Acq On : 26 Apr 2022 1:14 pm
Operator : thomash
Sample : ic2620-0.04
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 08:58:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58806.D\data.ms

(98) M-DICHLOROBENZENE (T)

16.865min (-0.010) 0.03PPBV m

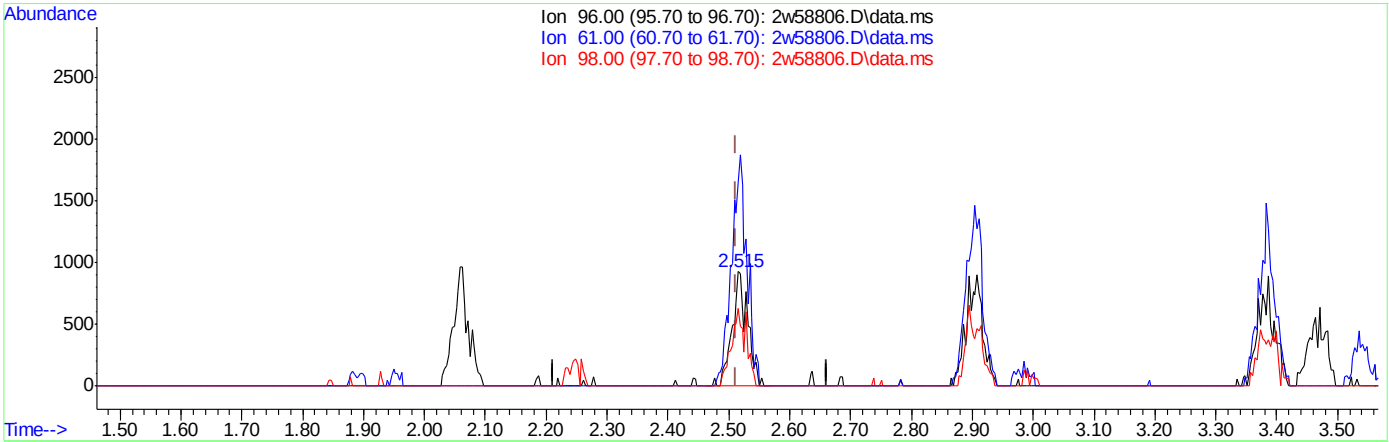
response 3983

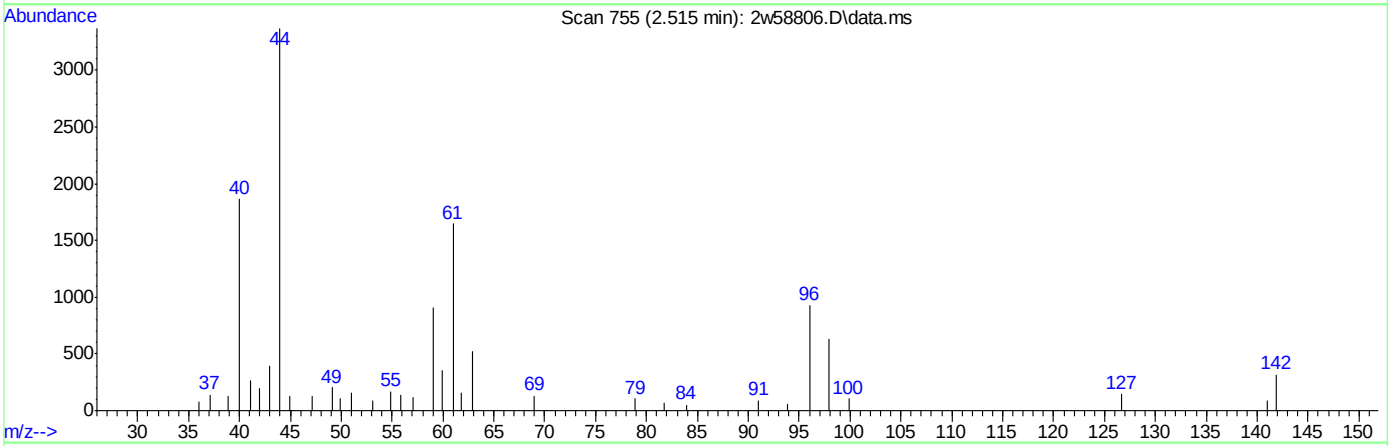
| Ion | Exp% | Act% |
|---|---|---|
| 146.00 | 100 | 100 |
| 148.00 | 63.80 | 62.24 |
| 111.00 | 38.20 | 46.22# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58806.D
Acq On : 26 Apr 2022 1:14 pm
Operator : thomash
Sample : ic2619-0.04
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:41:05 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58806.D\data.ms

(34) TRANS-1,2-DICHLOROETHENE (T)

2.515min (+0.003) 0.04PPBV

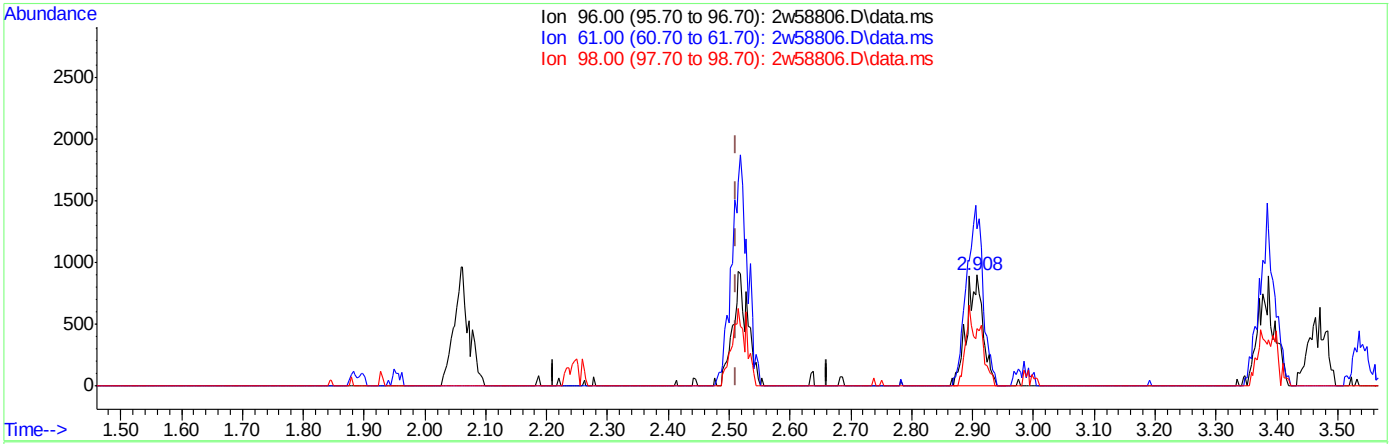
response 1599

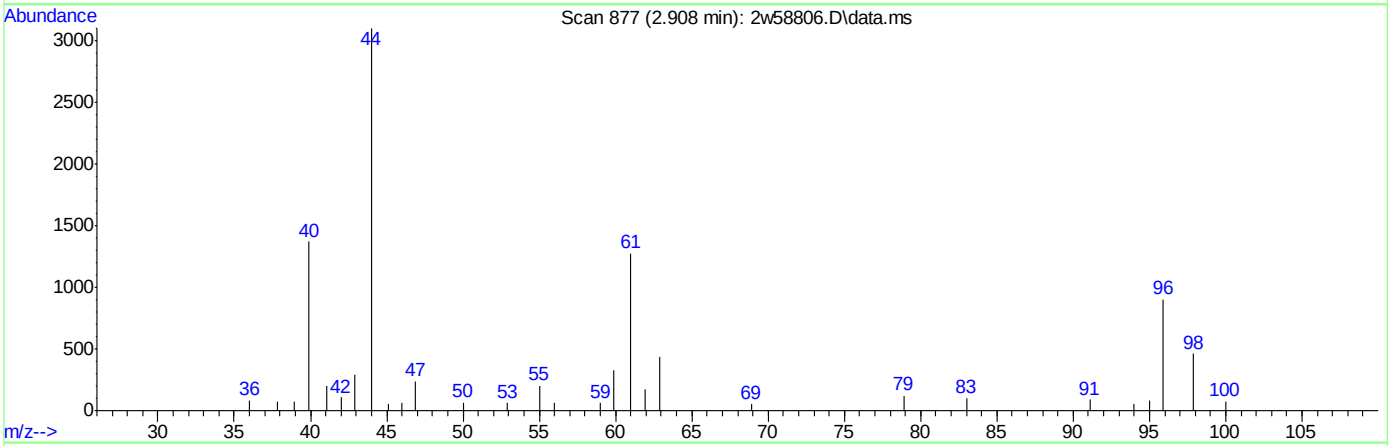
| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 130.40 | 206.25# |
| 98.00 | 63.30 | 66.54 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58806.D
Acq On : 26 Apr 2022 1:14 pm
Operator : thomash
Sample : ic2619-0.04
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:41:05 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58806.D\data.ms

(34) TRANS-1,2-DICHLOROETHENE (T)

2.908min (+0.396) 0.04PPBV m

response 1675

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 130.40 | 196.90# |
| 98.00 | 63.30 | 63.52 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 05/11/22 16:55

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58807.D
Acq On : 26 Apr 2022 1:50 pm
Operator : thomash
Sample : ic2619-0.1
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 14:42:26 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.464 | 128 | 266297 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.846 | 114 | 1715824 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.637 | 117 | 1616454 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.049 | 95 | 1136284 | 9.41 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) FREON 115 | 1.785 | 119 | 5738 | 0.11 | PPBV | # 100 |
| 3) FREON 152A | 1.814 | 65 | 3314 | 0.11 | PPBV | # 53 |
| 4) CHLORODIFLUOROMETHANE | 1.824 | 67 | 1528 | 0.11 | PPBV | 96 |
| 5) CHLOROTRIFLUOROETHENE | 1.834 | 116 | 6395 | 0.10 | PPBV | # 95 |
| 6) DICHLORODIFLUOROMETHANE | 1.847 | 85 | 14027m | 0.10 | PPBV | |
| 7) PROPYLENE | 1.837 | 41 | 6165 | 0.11 | PPBV | 92 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.892 | 65 | 10152 | 0.10 | PPBV | # 1 |
| 9) FREON 114 | 1.924 | 85 | 11644 | 0.10 | PPBV | 92 |
| 10) CHLOROMETHANE | 1.892 | 52 | 2075 | 0.13 | PPBV | # 66 |
| 11) VINYL CHLORIDE | 1.956 | 62 | 5097 | 0.10 | PPBV | # 95 |
| 12) 1,3-BUTADIENE | 1.985 | 54 | 4794 | 0.10 | PPBV | # 67 |
| 13) N-BUTANE | 2.004 | 43 | 10342 | 0.12 | PPBV | # 88 |
| 14) BROMOMETHANE | 2.059 | 94 | 4000 | 0.11 | PPBV | # 95 |
| 15) CHLOROETHANE | 2.104 | 64 | 2521 | 0.11 | PPBV | # 75 |
| 16) DICHLOROFLUOROMETHANE | 2.130 | 67 | 9350 | 0.10 | PPBV | # 96 |
| 17) ACETONITRILE | 2.194 | 41 | 5353 | 0.11 | PPBV | # 85 |
| 18) ACROLEIN | 2.232 | 56 | 2103 | 0.09 | PPBV | 94 |
| 19) FREON 123 | 2.242 | 83 | 9179 | 0.10 | PPBV | 99 |
| 20) FREON 123A | 2.261 | 117 | 5116 | 0.10 | PPBV | 86 |
| 21) TRICHLOROFLUOROMETHANE | 2.319 | 101 | 10618 | 0.10 | PPBV | 99 |
| 22) ISOPROPYL ALCOHOL | 2.339 | 45 | 14359 | 0.12 | PPBV | # 99 |
| 23) ACETONE | 2.271 | 58 | 3816 | 0.14 | PPBV | # 49 |
| 24) PENTANE | 2.432 | 42 | 6560 | 0.10 | PPBV | 97 |
| 25) IODOMETHANE | 2.490 | 142 | 9152 | 0.10 | PPBV | # 76 |
| 26) 1,1-DICHLOROETHYLENE | 2.522 | 96 | 3666 | 0.09 | PPBV | # 35 |
| 27) CARBON DISULFIDE | 2.654 | 76 | 10568 | 0.09 | PPBV | # 83 |
| 29) BROMOETHENE | 2.200 | 106 | 3845 | 0.10 | PPBV | # 97 |
| 30) ACRYLONITRILE | 2.400 | 52 | 4191 | 0.10 | PPBV | 95 |
| 31) METHYLENE CHLORIDE | 2.547 | 84 | 6709 | 0.19 | PPBV | # 27 |
| 32) 3-CHLOROPROPENE | 2.593 | 76 | 1944 | 0.11 | PPBV | # 1 |
| 33) FREON 113 | 2.654 | 151 | 5862 | 0.10 | PPBV | # 81 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.901 | 96 | 3921m | 0.10 | PPBV | |
| 35) TERTIARY BUTYL ALCOHOL | 2.528 | 59 | 10225 | 0.08 | PPBV | # 82 |
| 36) METHYL TERTIARY BUTYL ... | 3.023 | 73 | 10698 | 0.09 | PPBV | # 70 |
| 37) TETRAHYDROFURAN | 3.789 | 72 | 1705 | 0.10 | PPBV | # 8 |
| 38) HEXANE | 3.519 | 57 | 8866 | 0.10 | PPBV | # 63 |
| 39) VINYL ACETATE | 3.059 | 86 | 790 | 0.08 | PPBV | # 1 |
| 40) 1,1-DICHLOROETHANE | 2.982 | 63 | 7969 | 0.10 | PPBV | # 96 |
| 41) METHYL ETHYL KETONE | 3.171 | 72 | 1731 | 0.09 | PPBV | # 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.380 | 96 | 3556 | 0.09 | PPBV | # 62 |
| 43) DIISOPROPYL ETHER | 3.538 | 59 | 2469 | 0.10 | PPBV | # 22 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58807.D
Acq On : 26 Apr 2022 1:50 pm
Operator : thomash
Sample : ic2619-0.1
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 14:42:26 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 44) | ETHYL ACETATE | 3.538 | 61 | 1575 | 0.10 | PPBV | # | 1 |
| 45) | METHYL ACRYLATE | 3.525 | 55 | 11439 | 0.10 | PPBV | # | 97 |
| 46) | CHLOROFORM | 3.547 | 83 | 8770 | 0.10 | PPBV | # | 88 |
| 47) | 2,4-DIMETHYLPENTANE | 4.078 | 57 | 9983 | 0.10 | PPBV | # | 89 |
| 48) | 1,1,1-TRICHLOROETHANE | 4.162 | 97 | 8358 | 0.09 | PPBV | | 94 |
| 49) | CARBON TETRACHLORIDE | 4.609 | 117 | 8371 | 0.08 | PPBV | | 98 |
| 50) | 1,2-DICHLOROETHANE | 3.991 | 62 | 6444 | 0.10 | PPBV | # | 90 |
| 51) | BENZENE | 4.496 | 78 | 12789 | 0.10 | PPBV | | 68 |
| 53) | CYCLOHEXANE | 4.715 | 84 | 5833 | 0.10 | PPBV | # | 49 |
| 54) | 2,3-DIMETHYLPENTANE | 4.994 | 71 | 3280 | 0.10 | PPBV | # | 26 |
| 55) | TRICHLOROETHENE | 5.448 | 95 | 6306 | 0.09 | PPBV | | 90 |
| 56) | 1,2-DICHLOROPROPANE | 5.213 | 63 | 6519 | 0.10 | PPBV | | 96 |
| 57) | DIBROMOMETHANE | 5.168 | 174 | 5890 | 0.11 | PPBV | # | 85 |
| 58) | ETHYL ACRYLATE | 5.338 | 55 | 15331 | 0.09 | PPBV | # | 92 |
| 59) | BROMODICHLOROMETHANE | 5.396 | 83 | 10395 | 0.09 | PPBV | | 96 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.547 | 57 | 34030 | 0.10 | PPBV | # | 98 |
| 61) | 1,4-DIOXANE | 5.502 | 88 | 3292 | 0.10 | PPBV | # | 73 |
| 62) | HEPTANE | 5.882 | 43 | 13517 | 0.09 | PPBV | # | 68 |
| 63) | METHYL METHACRYLATE | 5.782 | 69 | 5164 | 0.09 | PPBV | # | 33 |
| 64) | METHYL ISOBUTYL KETONE | 6.560 | 58 | 5904 | 0.09 | PPBV | # | 63 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.432 | 75 | 7657 | 0.09 | PPBV | # | 60 |
| 66) | TOLUENE | 7.692 | 91 | 16825 | 0.09 | PPBV | | 99 |
| 67) | 1,3-DICHLOROPROPANE | 7.750 | 76 | 8097 | 0.09 | PPBV | # | 96 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.142 | 75 | 6634 | 0.08 | PPBV | # | 58 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.309 | 83 | 4888 | 0.09 | PPBV | | 99 |
| 70) | 2-HEXANONE | 8.296 | 58 | 7356 | 0.08 | PPBV | # | 57 |
| 71) | ETHYL METHACRYLATE | 8.412 | 69 | 7975 | 0.08 | PPBV | # | 43 |
| 72) | TETRACHLOROETHENE | 9.473 | 164 | 5302 | 0.08 | PPBV | # | 86 |
| 73) | DIBROMOCHLOROMETHANE | 8.245 | 129 | 9627 | 0.08 | PPBV | | 98 |
| 74) | 1,2-DIBROMOETHANE | 8.595 | 107 | 8435 | 0.08 | PPBV | # | 96 |
| 75) | OCTANE | 9.615 | 43 | 18239 | 0.09 | PPBV | # | 69 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.718 | 131 | 7060 | 0.08 | PPBV | | 88 |
| 78) | CHLOROBENZENE | 10.711 | 112 | 13979 | 0.09 | PPBV | | 98 |
| 79) | ETHYLBENZENE | 11.608 | 91 | 22353 | 0.09 | PPBV | | 97 |
| 80) | M,P-XYLENE | 12.036 | 91 | 32565 | 0.15 | PPBV | # | 65 |
| 81) | O-XYLENE | 12.988 | 91 | 16882 | 0.08 | PPBV | | 92 |
| 82) | STYRENE | 12.772 | 104 | 11615 | 0.08 | PPBV | | 92 |
| 83) | NONANE | 14.107 | 43 | 19428 | 0.08 | PPBV | # | 64 |
| 84) | BROMOFORM | 11.856 | 173 | 7214 | 0.07 | PPBV | # | 99 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 13.004 | 83 | 11623 | 0.07 | PPBV | | 98 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.280 | 75 | 8844 | 0.08 | PPBV | # | 99 |
| 88) | ISOPROPYLBENZENE | 14.521 | 120 | 6530 | 0.08 | PPBV | | 92 |
| 89) | BROMOBENZENE | 14.396 | 77 | 11767 | 0.08 | PPBV | | 85 |
| 90) | 2-CHLOROTOLUENE | 15.537 | 126 | 5419 | 0.08 | PPBV | | 95 |
| 91) | N-PROPYLBENZENE | 15.875 | 120 | 5782 | 0.07 | PPBV | | 97 |
| 92) | 4-ETHYLTOLUENE | 16.203 | 105 | 21998 | 0.07 | PPBV | # | 95 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.354 | 105 | 18532 | 0.07 | PPBV | | 97 |
| 94) | ALPHA-METHYLSTYRENE | 16.547 | 118 | 8707 | 0.07 | PPBV | | 99 |
| 95) | TERT-BUTYLBENZENE | 16.798 | 134 | 4458 | 0.08 | PPBV | | 96 |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.804 | 105 | 17233 | 0.07 | PPBV | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58807.D
Acq On : 26 Apr 2022 1:50 pm
Operator : thomash
Sample : ic2619-0.1
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 14:42:26 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

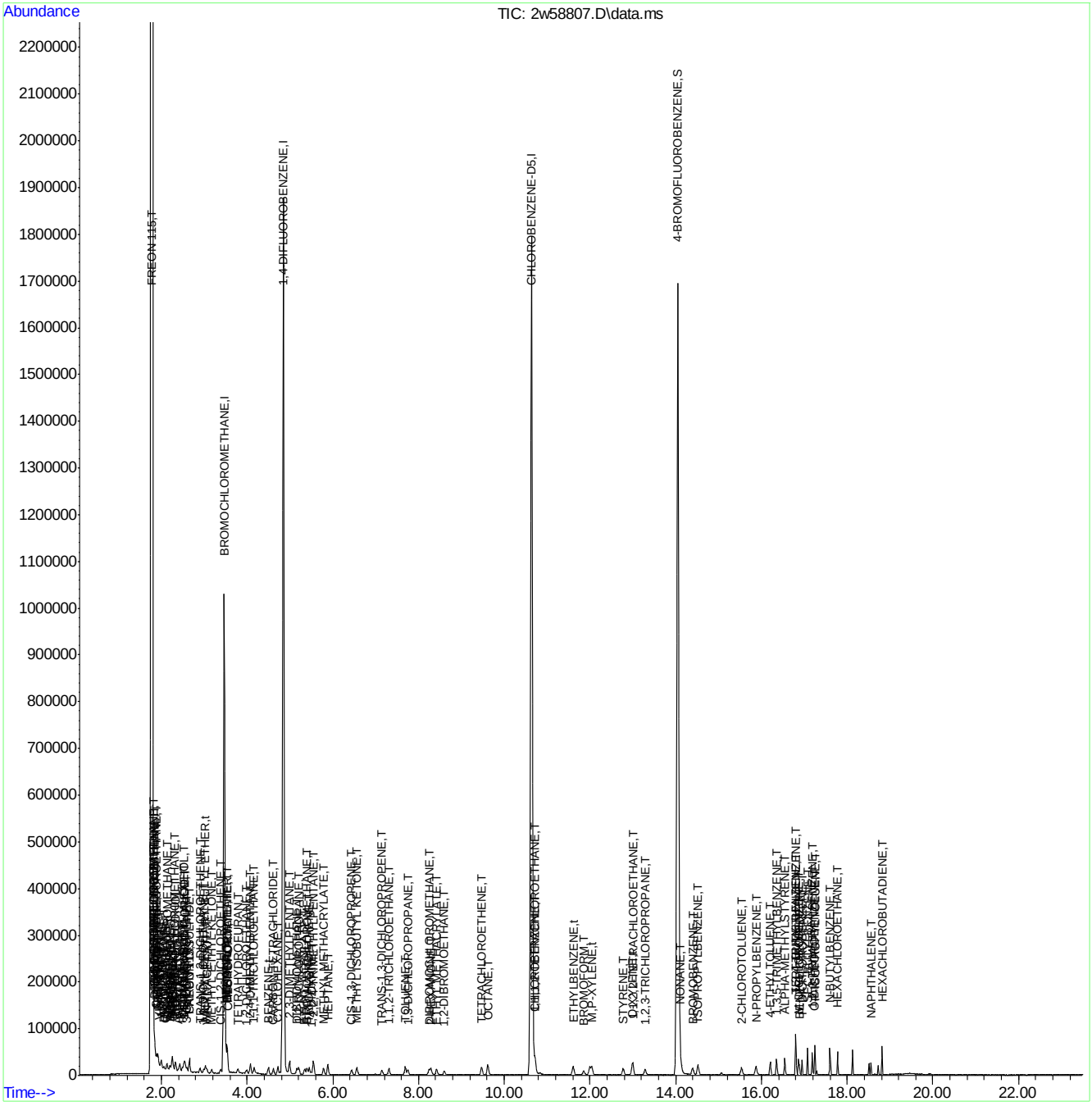
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.885 | 91 | 10650 | 0.05 | PPBV | # | 94 |
| 98) | M-DICHLOROBENZENE | 16.865 | 146 | 9823 | 0.07 | PPBV | | 95 |
| 99) | P-DICHLOROBENZENE | 16.949 | 146 | 9424 | 0.07 | PPBV | | 95 |
| 100) | O-DICHLOROBENZENE | 17.238 | 146 | 9138 | 0.07 | PPBV | | 94 |
| 101) | SEC-BUTYLBENZENE | 17.077 | 134 | 4932 | 0.07 | PPBV | | 81 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.187 | 105 | 17629 | 0.07 | PPBV | | 93 |
| 103) | P-ISOPROPYLTOLUENE | 17.254 | 134 | 5182 | 0.07 | PPBV | | 85 |
| 104) | N-BUTYLBENZENE | 17.598 | 134 | 4313 | 0.07 | PPBV | | 70 |
| 105) | HEXACHLOROETHANE | 17.775 | 117 | 6254 | 0.06 | PPBV | # | 85 |
| 106) | HEXACHLOROBUTADIENE | 18.817 | 225 | 5304 | 0.06 | PPBV | | 96 |
| 108) | NAPHTHALENE | 18.560 | 128 | 11335 | 0.05 | PPBV | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58807.D
Acq On : 26 Apr 2022 1:50 pm
Operator : thomash
Sample : ic2619-0.1
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 14:42:26 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



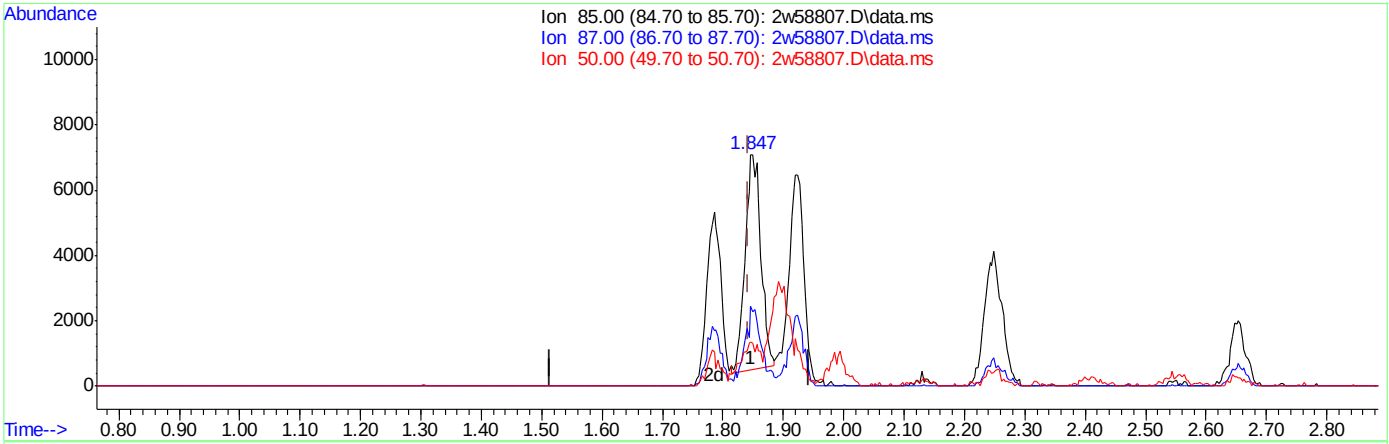
**Sample Number:** V2W2619-IC2619
**Lab FileID:** 2W58807.D
**Injection Time:** 04/26/22 13:50
**Method:** TO-15
**Analyst approved:** 05/11/22 16:26 Thomas Hilbig
**Supervisor approved:** 05/11/22 16:55 Kanya Veerawat

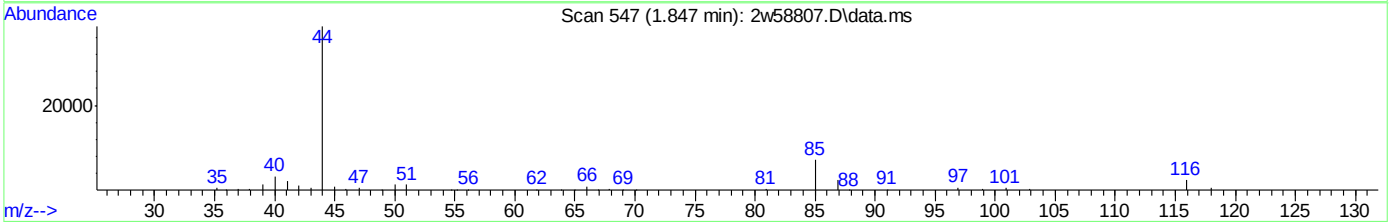
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.85 | Poorly defined baseline |
| trans-1,2-Dichloroethylene | 156-60-5 | | 2.90 | Missed peak |

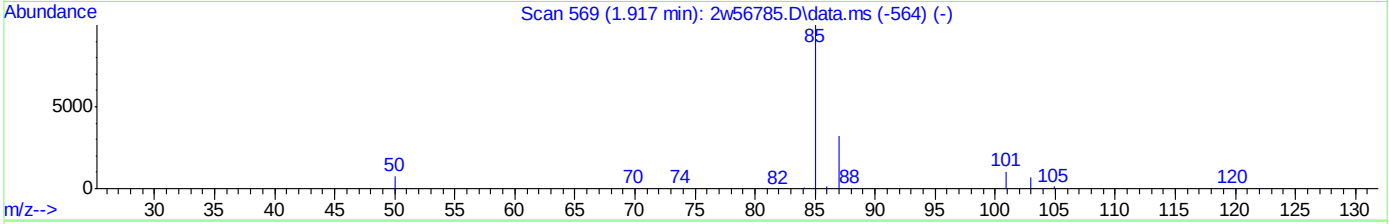
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58807.D
Acq On : 26 Apr 2022 1:50 pm
Operator : thomash
Sample : ic2620-0.1
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:06:49 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58807.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.847min (+0.003) 0.09PPBV

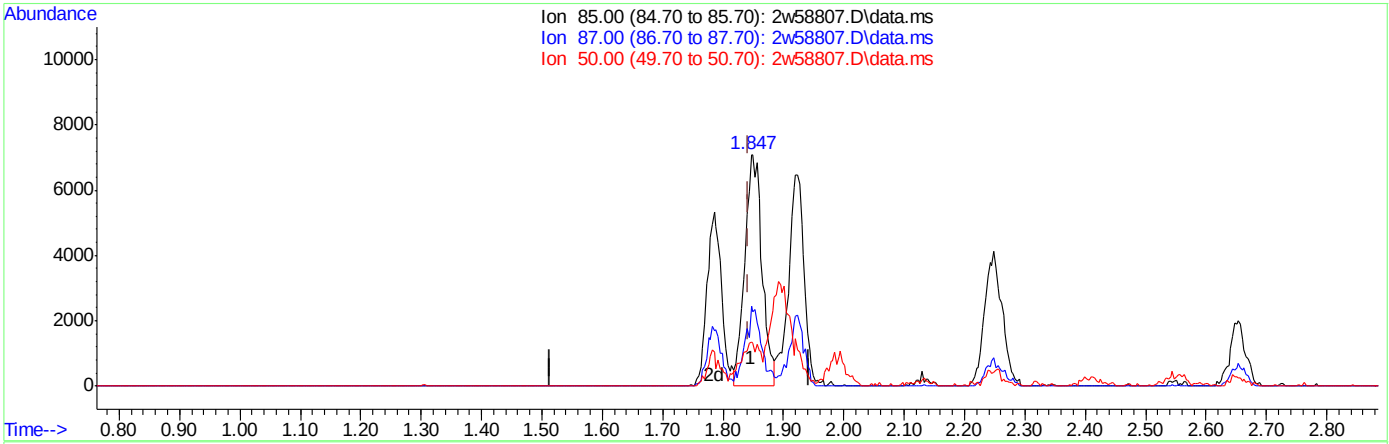
response 11932

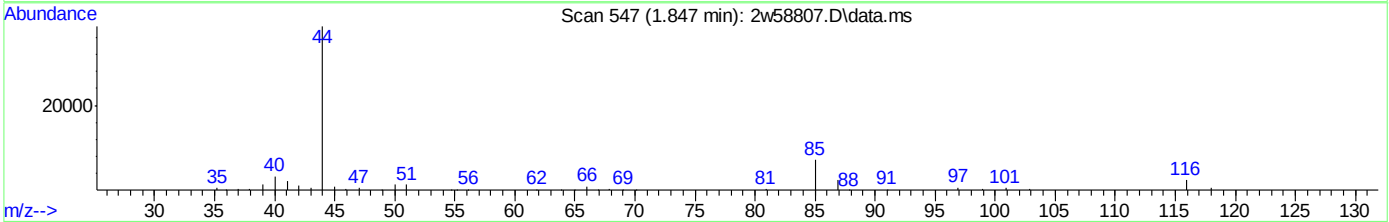
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.81 |
| 50.00 | 9.30 | 21.35# |
| 0.00 | 0.00 | 0.00 |

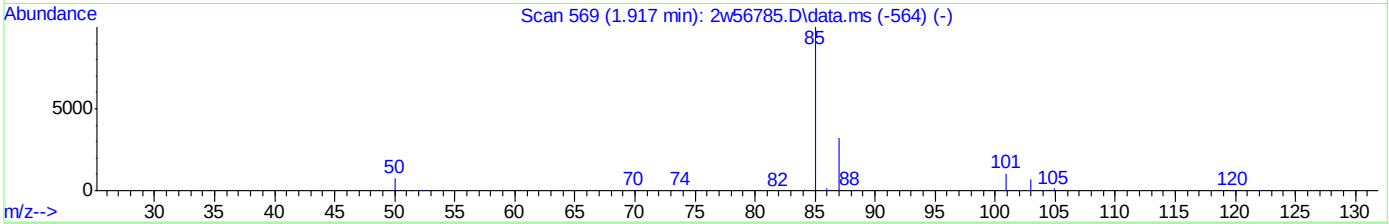
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58807.D
Acq On : 26 Apr 2022 1:50 pm
Operator : thomash
Sample : ic2620-0.1
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:06:49 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58807.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.847min (+0.003) 0.10PPBV m

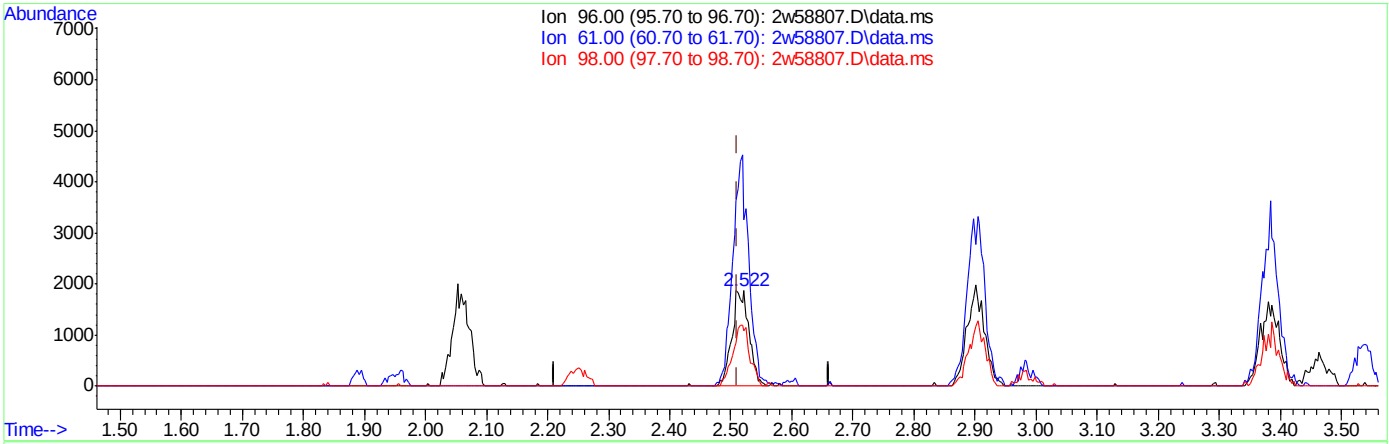
response 14027

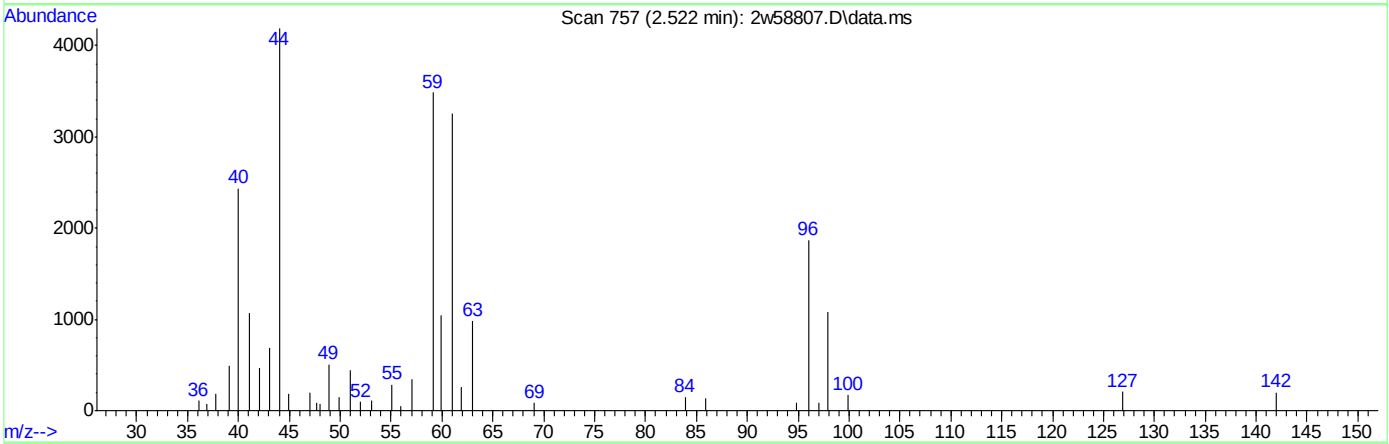
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 27.91 |
| 50.00 | 9.30 | 18.16# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58807.D
Acq On : 26 Apr 2022 1:50 pm
Operator : thomash
Sample : ic2619-0.1
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:40:23 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58807.D\data.ms

(34) TRANS-1,2-DICHLOROETHENE (T)

2.522min (+0.010) 0.09PPBV

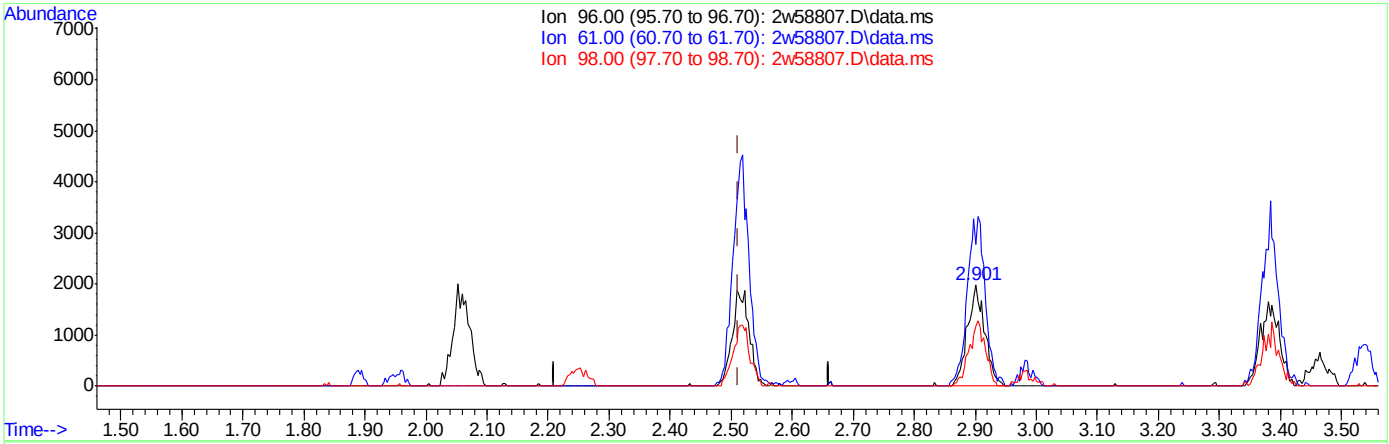
response 3666

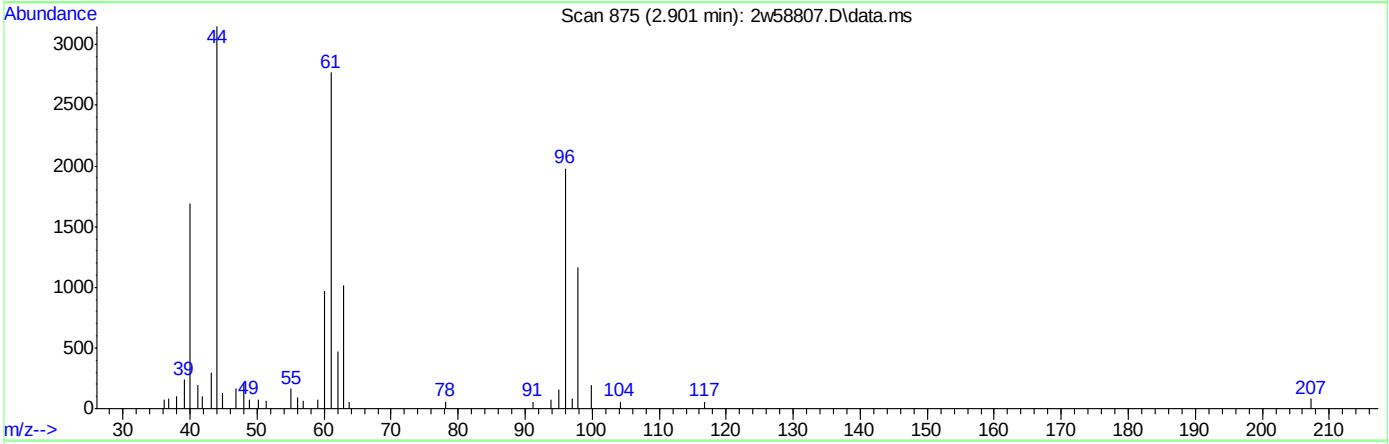
| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 130.40 | 225.72# |
| 98.00 | 63.30 | 63.53 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58807.D
Acq On : 26 Apr 2022 1:50 pm
Operator : thomash
Sample : ic2619-0.1
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:40:23 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58807.D\data.ms

(34) TRANS-1,2-DICHLOROETHENE (T)

2.901min (+0.389) 0.10PPBV m

response 3921

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 130.40 | 211.04# |
| 98.00 | 63.30 | 59.40 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 05/11/22 16:55

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58808.D
Acq On : 26 Apr 2022 2:27 pm
Operator : thomash
Sample : ic2619-0.2
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 14:42:53 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.467 | 128 | 261318 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.846 | 114 | 1666817 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.640 | 117 | 1586760 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.052 | 95 | 1116008 | 9.42 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) FREON 115 | 1.785 | 119 | 11891 | 0.22 | PPBV | # | 100 |
| 3) FREON 152A | 1.818 | 65 | 6557 | 0.22 | PPBV | # | 53 |
| 4) CHLORODIFLUOROMETHANE | 1.821 | 67 | 2783 | 0.21 | PPBV | # | 87 |
| 5) CHLOROTRIFLUOROETHENE | 1.834 | 116 | 12390 | 0.20 | PPBV | # | 97 |
| 6) DICHLORODIFLUOROMETHANE | 1.853 | 85 | 27837m | 0.20 | PPBV | | |
| 7) PROPYLENE | 1.834 | 41 | 11136 | 0.20 | PPBV | | 94 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.888 | 65 | 19630 | 0.20 | PPBV | # | 24 |
| 9) FREON 114 | 1.920 | 85 | 22577 | 0.19 | PPBV | | 94 |
| 10) CHLOROMETHANE | 1.892 | 52 | 3889 | 0.24 | PPBV | | 73 |
| 11) VINYL CHLORIDE | 1.953 | 62 | 9748 | 0.20 | PPBV | # | 96 |
| 12) 1,3-BUTADIENE | 1.991 | 54 | 9114 | 0.20 | PPBV | # | 75 |
| 13) N-BUTANE | 2.004 | 43 | 18944 | 0.22 | PPBV | # | 87 |
| 14) BROMOMETHANE | 2.059 | 94 | 7207 | 0.20 | PPBV | # | 98 |
| 15) CHLOROETHANE | 2.104 | 64 | 4801 | 0.21 | PPBV | # | 66 |
| 16) DICHLOROFLUOROMETHANE | 2.129 | 67 | 19331 | 0.21 | PPBV | # | 94 |
| 17) ACETONITRILE | 2.200 | 41 | 9497 | 0.19 | PPBV | # | 77 |
| 18) ACROLEIN | 2.236 | 56 | 4308 | 0.18 | PPBV | | 96 |
| 19) FREON 123 | 2.248 | 83 | 18016 | 0.20 | PPBV | | 100 |
| 20) FREON 123A | 2.255 | 117 | 10176 | 0.20 | PPBV | | 87 |
| 21) TRICHLOROFLUOROMETHANE | 2.322 | 101 | 21000 | 0.19 | PPBV | | 98 |
| 22) ISOPROPYL ALCOHOL | 2.342 | 45 | 28508 | 0.25 | PPBV | # | 98 |
| 23) ACETONE | 2.271 | 58 | 7288 | 0.28 | PPBV | # | 45 |
| 24) PENTANE | 2.432 | 42 | 13687 | 0.22 | PPBV | # | 89 |
| 25) IODOMETHANE | 2.490 | 142 | 17633 | 0.19 | PPBV | # | 81 |
| 26) 1,1-DICHLOROETHYLENE | 2.515 | 96 | 7596 | 0.20 | PPBV | # | 48 |
| 27) CARBON DISULFIDE | 2.654 | 76 | 22187 | 0.20 | PPBV | # | 78 |
| 29) BROMOETHENE | 2.203 | 106 | 7308 | 0.20 | PPBV | # | 92 |
| 30) ACRYLONITRILE | 2.403 | 52 | 8364 | 0.20 | PPBV | | 95 |
| 31) METHYLENE CHLORIDE | 2.551 | 84 | 10611 | 0.31 | PPBV | # | 31 |
| 32) 3-CHLOROPROPENE | 2.592 | 76 | 3271 | 0.19 | PPBV | # | 1 |
| 33) FREON 113 | 2.657 | 151 | 11321 | 0.19 | PPBV | # | 80 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.904 | 96 | 7761m | 0.20 | PPBV | | |
| 35) TERTIARY BUTYL ALCOHOL | 2.531 | 59 | 20241 | 0.17 | PPBV | # | 79 |
| 36) METHYL TERTIARY BUTYL ... | 3.027 | 73 | 22010 | 0.19 | PPBV | # | 78 |
| 37) TETRAHYDROFURAN | 3.785 | 72 | 3177 | 0.18 | PPBV | # | 1 |
| 38) HEXANE | 3.522 | 57 | 17163 | 0.20 | PPBV | # | 68 |
| 39) VINYL ACETATE | 3.065 | 86 | 1478 | 0.16 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.982 | 63 | 15256 | 0.19 | PPBV | | 98 |
| 41) METHYL ETHYL KETONE | 3.165 | 72 | 3246 | 0.18 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.387 | 96 | 7265 | 0.19 | PPBV | # | 64 |
| 43) DIISOPROPYL ETHER | 3.531 | 59 | 4808 | 0.20 | PPBV | # | 22 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58808.D
Acq On : 26 Apr 2022 2:27 pm
Operator : thomash
Sample : ic2619-0.2
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 14:42:53 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 44) | ETHYL ACETATE | 3.538 | 61 | 3094 | 0.19 | PPBV | # | 1 |
| 45) | METHYL ACRYLATE | 3.522 | 55 | 21925 | 0.19 | PPBV | # | 97 |
| 46) | CHLOROFORM | 3.544 | 83 | 16709 | 0.19 | PPBV | # | 88 |
| 47) | 2,4-DIMETHYLPENTANE | 4.075 | 57 | 19649 | 0.19 | PPBV | # | 92 |
| 48) | 1,1,1-TRICHLOROETHANE | 4.165 | 97 | 16749 | 0.18 | PPBV | # | 93 |
| 49) | CARBON TETRACHLORIDE | 4.615 | 117 | 16460 | 0.16 | PPBV | | 100 |
| 50) | 1,2-DICHLOROETHANE | 3.991 | 62 | 12602 | 0.19 | PPBV | # | 94 |
| 51) | BENZENE | 4.493 | 78 | 24402 | 0.18 | PPBV | | 65 |
| 53) | CYCLOHEXANE | 4.721 | 84 | 11267 | 0.19 | PPBV | # | 50 |
| 54) | 2,3-DIMETHYLPENTANE | 4.985 | 71 | 6409 | 0.20 | PPBV | # | 14 |
| 55) | TRICHLOROETHENE | 5.451 | 95 | 12273 | 0.19 | PPBV | | 95 |
| 56) | 1,2-DICHLOROPROPANE | 5.210 | 63 | 12500 | 0.19 | PPBV | | 98 |
| 57) | DIBROMOMETHANE | 5.162 | 174 | 10641 | 0.20 | PPBV | # | 84 |
| 58) | ETHYL ACRYLATE | 5.338 | 55 | 30045 | 0.17 | PPBV | # | 92 |
| 59) | BROMODICHLOROMETHANE | 5.396 | 83 | 20009 | 0.18 | PPBV | | 99 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.547 | 57 | 66274 | 0.19 | PPBV | # | 98 |
| 61) | 1,4-DIOXANE | 5.489 | 88 | 5874 | 0.18 | PPBV | # | 62 |
| 62) | HEPTANE | 5.882 | 43 | 25574 | 0.18 | PPBV | # | 68 |
| 63) | METHYL METHACRYLATE | 5.782 | 69 | 9982 | 0.18 | PPBV | # | 20 |
| 64) | METHYL ISOBUTYL KETONE | 6.551 | 58 | 11547 | 0.17 | PPBV | # | 60 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.435 | 75 | 14539 | 0.18 | PPBV | # | 65 |
| 66) | TOLUENE | 7.686 | 91 | 32851 | 0.18 | PPBV | | 98 |
| 67) | 1,3-DICHLOROPROPANE | 7.747 | 76 | 15974 | 0.18 | PPBV | | 98 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.142 | 75 | 13879 | 0.18 | PPBV | # | 70 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.309 | 83 | 9542 | 0.18 | PPBV | | 99 |
| 70) | 2-HEXANONE | 8.293 | 58 | 14329 | 0.16 | PPBV | # | 63 |
| 71) | ETHYL METHACRYLATE | 8.422 | 69 | 16496 | 0.17 | PPBV | # | 55 |
| 72) | TETRACHLOROETHENE | 9.473 | 164 | 10820 | 0.18 | PPBV | | 91 |
| 73) | DIBROMOCHLOROMETHANE | 8.248 | 129 | 19011 | 0.17 | PPBV | | 99 |
| 74) | 1,2-DIBROMOETHANE | 8.599 | 107 | 16728 | 0.17 | PPBV | # | 99 |
| 75) | OCTANE | 9.615 | 43 | 34356 | 0.17 | PPBV | # | 70 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.727 | 131 | 14561 | 0.17 | PPBV | | 91 |
| 78) | CHLOROBENZENE | 10.711 | 112 | 27703 | 0.18 | PPBV | | 92 |
| 79) | ETHYLBENZENE | 11.605 | 91 | 44284 | 0.17 | PPBV | | 99 |
| 80) | M,P-XYLENE | 12.042 | 91 | 65347m | 0.31 | PPBV | | |
| 81) | O-XYLENE | 12.984 | 91 | 33514 | 0.16 | PPBV | # | 92 |
| 82) | STYRENE | 12.772 | 104 | 23205 | 0.15 | PPBV | | 95 |
| 83) | NONANE | 14.106 | 43 | 38518 | 0.17 | PPBV | # | 67 |
| 84) | BROMOFORM | 11.849 | 173 | 15341 | 0.14 | PPBV | # | 97 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 12.997 | 83 | 22435 | 0.15 | PPBV | | 100 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.283 | 75 | 17455 | 0.15 | PPBV | # | 99 |
| 88) | ISOPROPYLBENZENE | 14.521 | 120 | 12648 | 0.16 | PPBV | # | 83 |
| 89) | BROMOBENZENE | 14.399 | 77 | 22758 | 0.16 | PPBV | | 86 |
| 90) | 2-CHLOROTOLUENE | 15.534 | 126 | 10853 | 0.17 | PPBV | | 94 |
| 91) | N-PROPYLBENZENE | 15.875 | 120 | 12148 | 0.15 | PPBV | | 98 |
| 92) | 4-ETHYLTOLUENE | 16.206 | 105 | 42308 | 0.14 | PPBV | | 98 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.354 | 105 | 36970 | 0.15 | PPBV | # | 97 |
| 94) | ALPHA-METHYLSTYRENE | 16.544 | 118 | 16995 | 0.13 | PPBV | | 96 |
| 95) | TERT-BUTYLBENZENE | 16.798 | 134 | 8503 | 0.16 | PPBV | | 87 |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.807 | 105 | 34820 | 0.14 | PPBV | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58808.D
Acq On : 26 Apr 2022 2:27 pm
Operator : thomash
Sample : ic2619-0.2
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 14:42:53 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

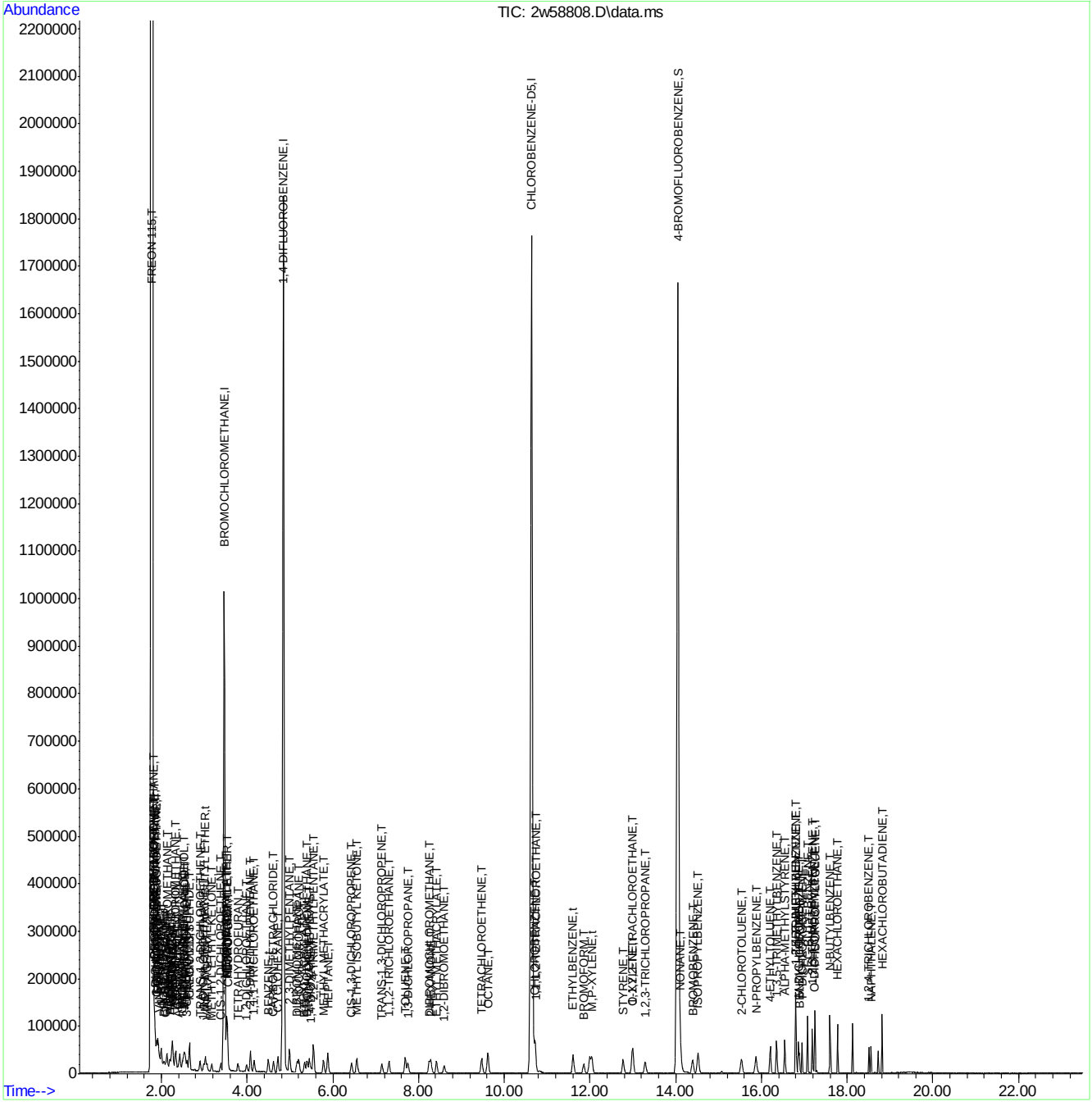
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.888 | 91 | 21424 | 0.10 | PPBV | # | 94 |
| 98) | M-DICHLOROBENZENE | 16.865 | 146 | 19088 | 0.14 | PPBV | | 94 |
| 99) | P-DICHLOROBENZENE | 16.949 | 146 | 18339 | 0.13 | PPBV | | 96 |
| 100) | O-DICHLOROBENZENE | 17.238 | 146 | 17883 | 0.14 | PPBV | | 97 |
| 101) | SEC-BUTYLBENZENE | 17.077 | 134 | 10370 | 0.16 | PPBV | | 86 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.187 | 105 | 35065 | 0.15 | PPBV | # | 94 |
| 103) | P-ISOPROPYLTOLUENE | 17.251 | 134 | 10682 | 0.16 | PPBV | | 87 |
| 104) | N-BUTYLBENZENE | 17.598 | 134 | 9292 | 0.15 | PPBV | | 88 |
| 105) | HEXACHLOROETHANE | 17.778 | 117 | 13140 | 0.13 | PPBV | # | 87 |
| 106) | HEXACHLOROBUTADIENE | 18.817 | 225 | 10317 | 0.12 | PPBV | | 99 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.508 | 180 | 8371 | 0.10 | PPBV | | 96 |
| 108) | NAPHTHALENE | 18.560 | 128 | 23475 | 0.10 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58808.D
Acq On : 26 Apr 2022 2:27 pm
Operator : thomash
Sample : ic2619-0.2
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 14:42:53 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



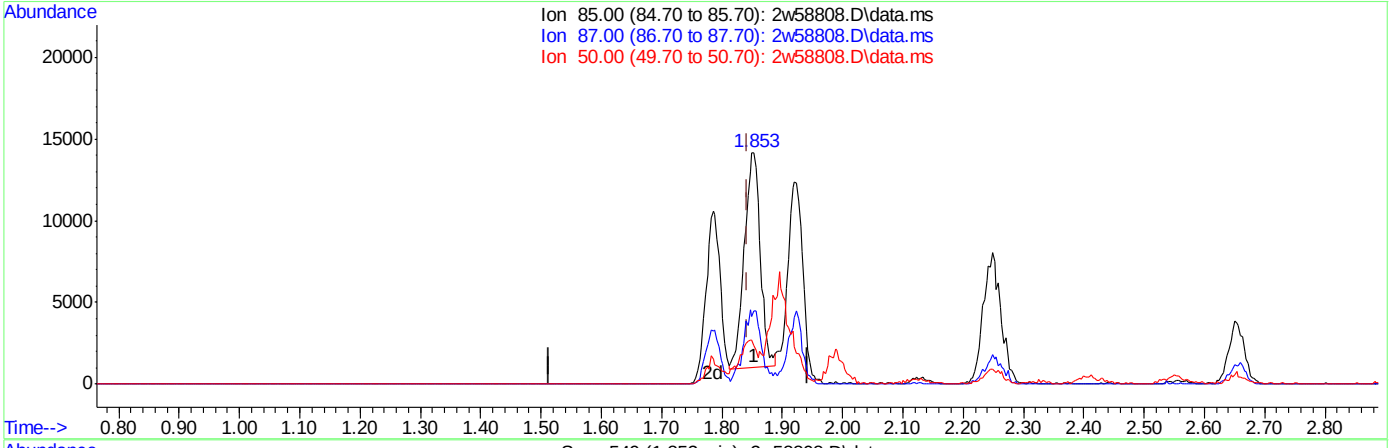
**Sample Number:** V2W2619-IC2619 **Method:** TO-15
**Lab FileID:** 2W58808.D **Analyst approved:** 05/11/22 16:26 Thomas Hilbig
**Injection Time:** 04/26/22 14:27 **Supervisor approved:** 05/11/22 16:55 Kanya Veerawat

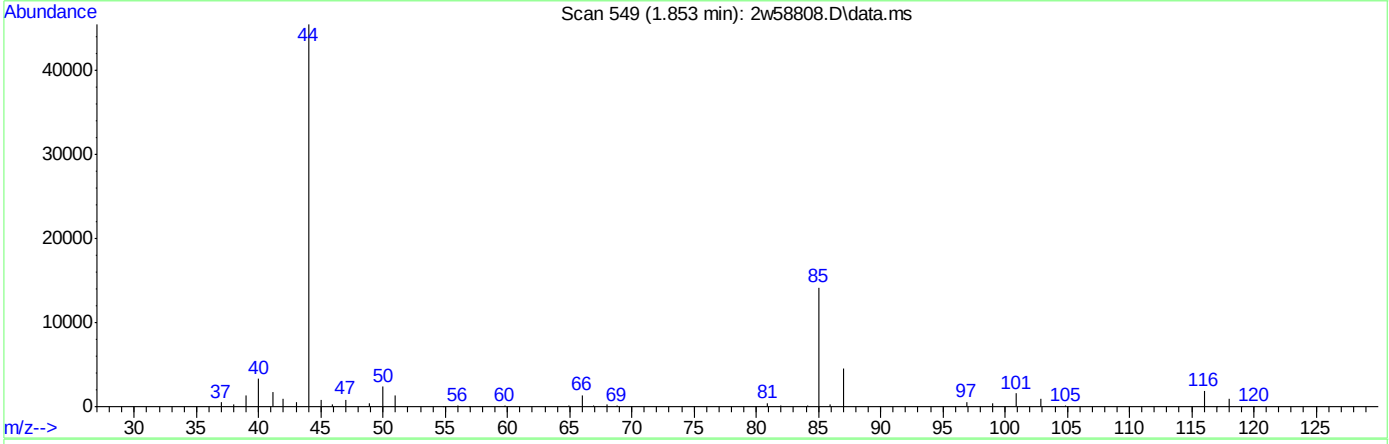
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.85 | Poorly defined baseline |
| trans-1,2-Dichloroethylene | 156-60-5 | | 2.90 | Missed peak |
| m,p-Xylene | | | 12.04 | Split peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58808.D
Acq On : 26 Apr 2022 2:27 pm
Operator : thomash
Sample : ic2620-0.2
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:09:04 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58808.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.853min (+0.009) 0.18PPBV

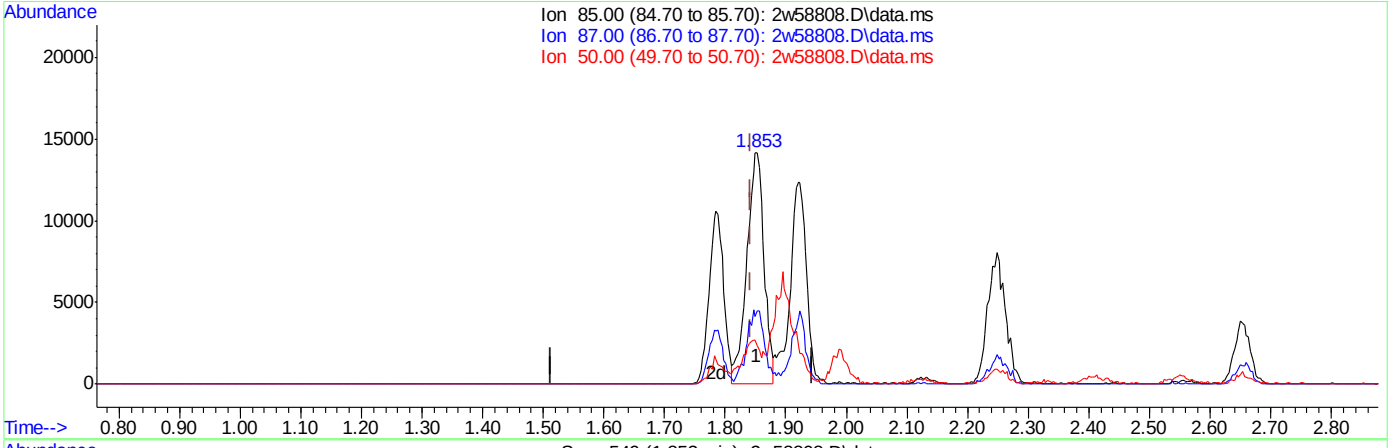
response 24243

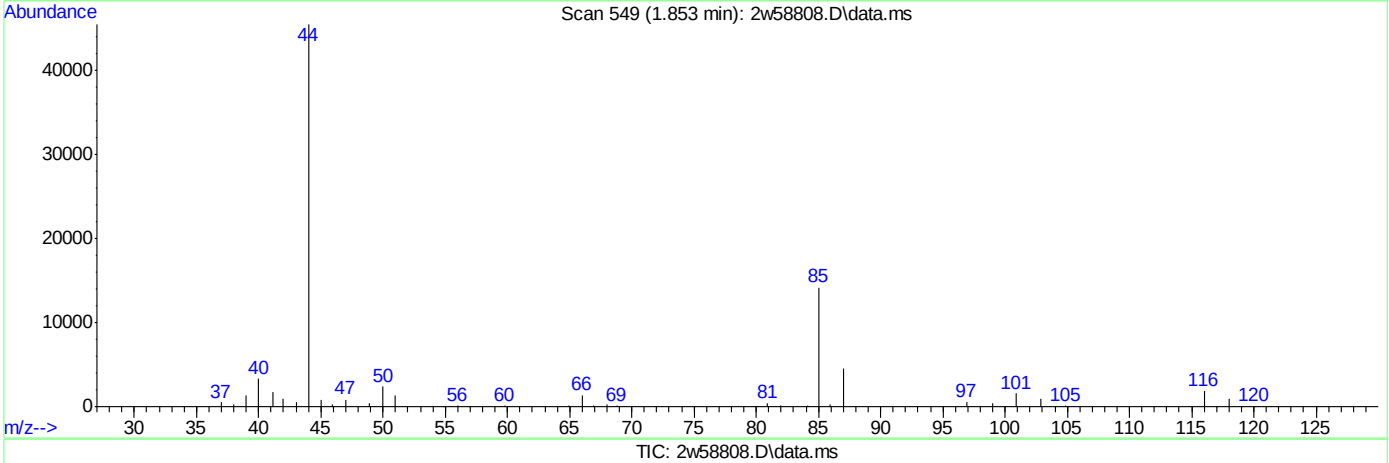
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 33.02 |
| 50.00 | 9.30 | 17.02# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58808.D
Acq On : 26 Apr 2022 2:27 pm
Operator : thomash
Sample : ic2620-0.2
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:09:04 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58808.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.853min (+0.009) 0.20PPBV m

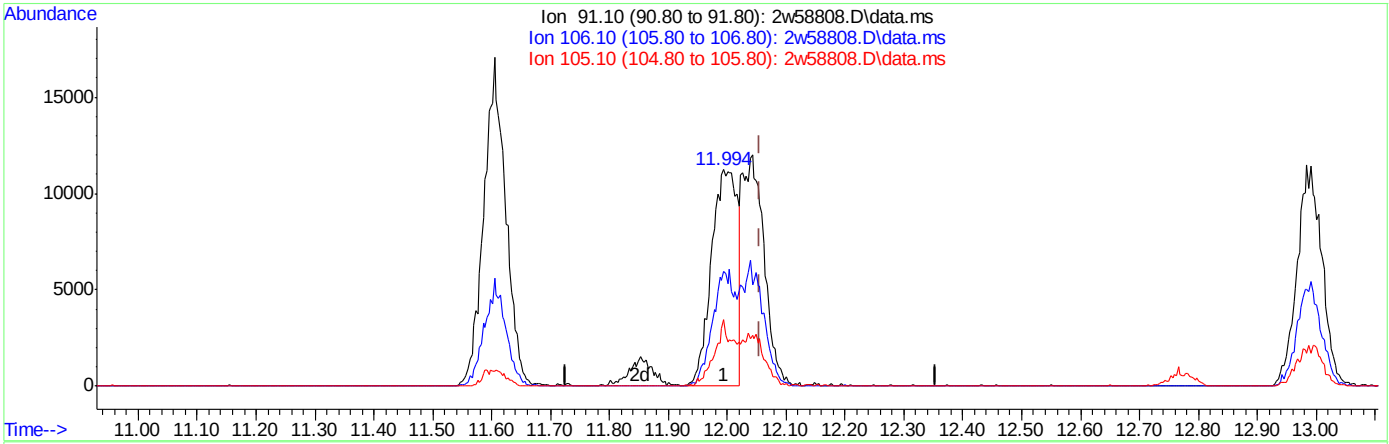
response 27837

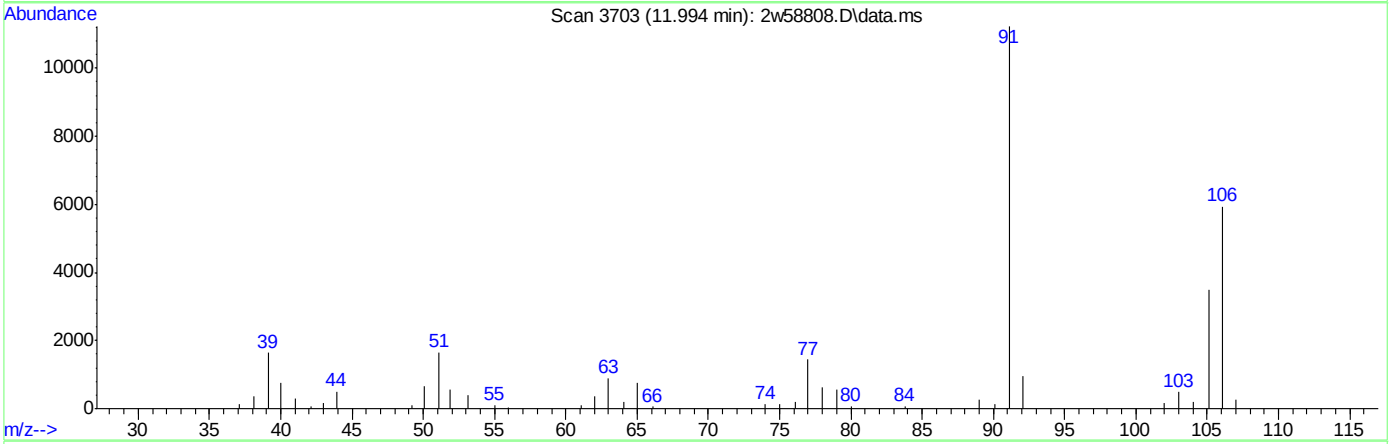
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 28.76 |
| 50.00 | 9.30 | 14.83# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58808.D
Acq On : 26 Apr 2022 2:27 pm
Operator : thomash
Sample : ic2620-0.2
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:09:04 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58808.D\data.ms

(80) M,P-XYLENE (t)

11.994min (-0.061) 0.16PPBV

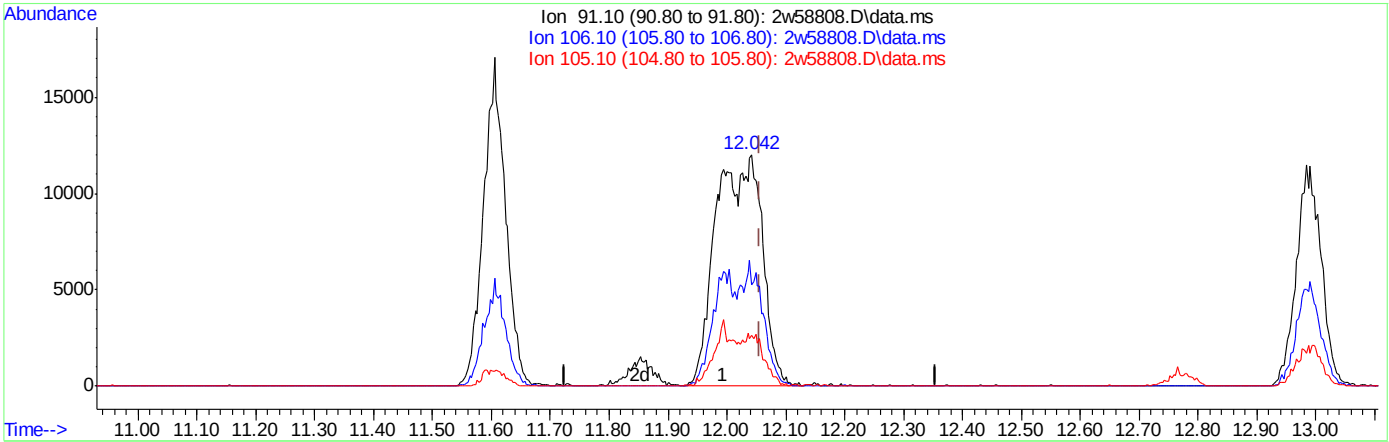
response 33936

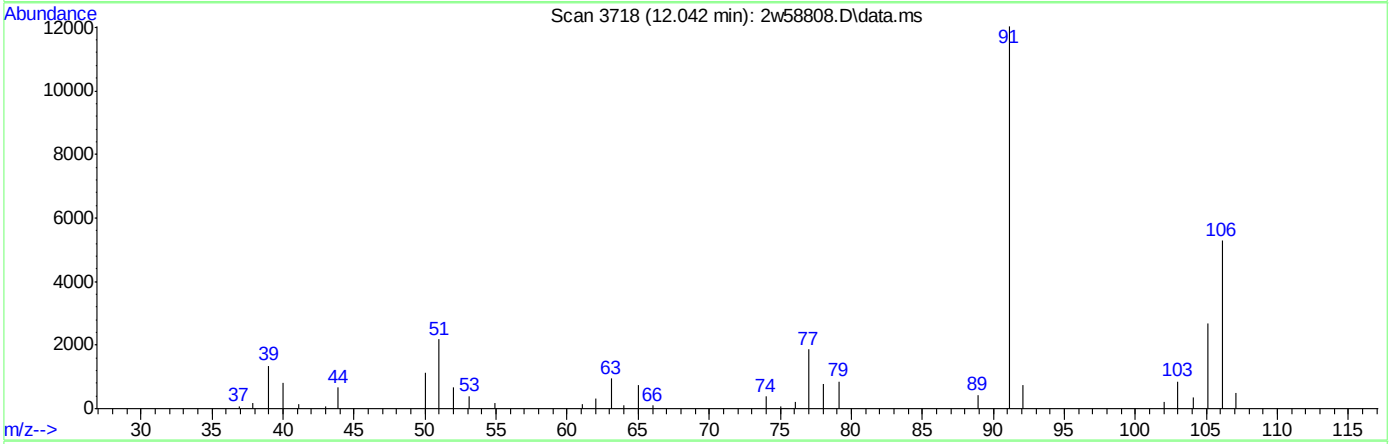
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 43.56 |
| 105.10 | 23.60 | 43.84# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58808.D
Acq On : 26 Apr 2022 2:27 pm
Operator : thomash
Sample : ic2620-0.2
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:09:04 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58808.D\data.ms

(80) M,P-XYLENE (t)

12.042min (-0.013) 0.31PPBV m

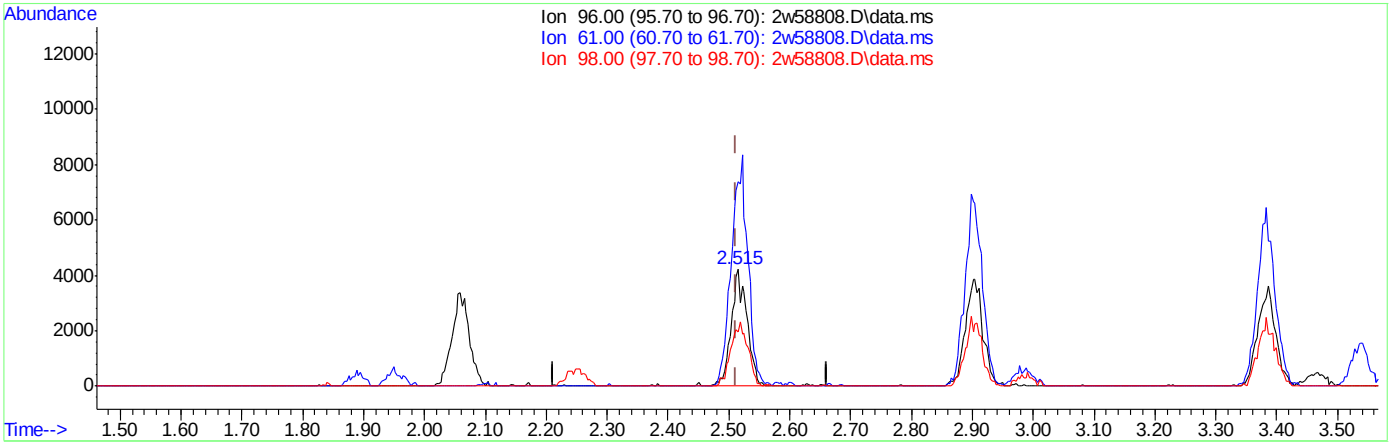
response 65347

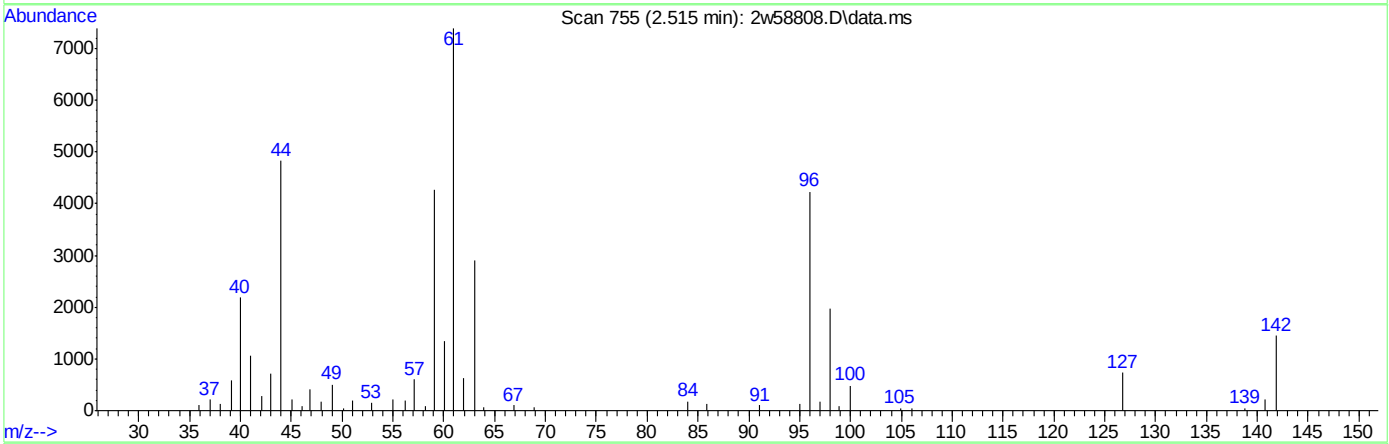
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 22.62# |
| 105.10 | 23.60 | 22.77 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58808.D
Acq On : 26 Apr 2022 2:27 pm
Operator : thomash
Sample : ic2619-0.2
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:40:06 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58808.D\data.ms

(34) TRANS-1,2-DICHLOROETHENE (T)

2.515min (+0.003) 0.20PPBV

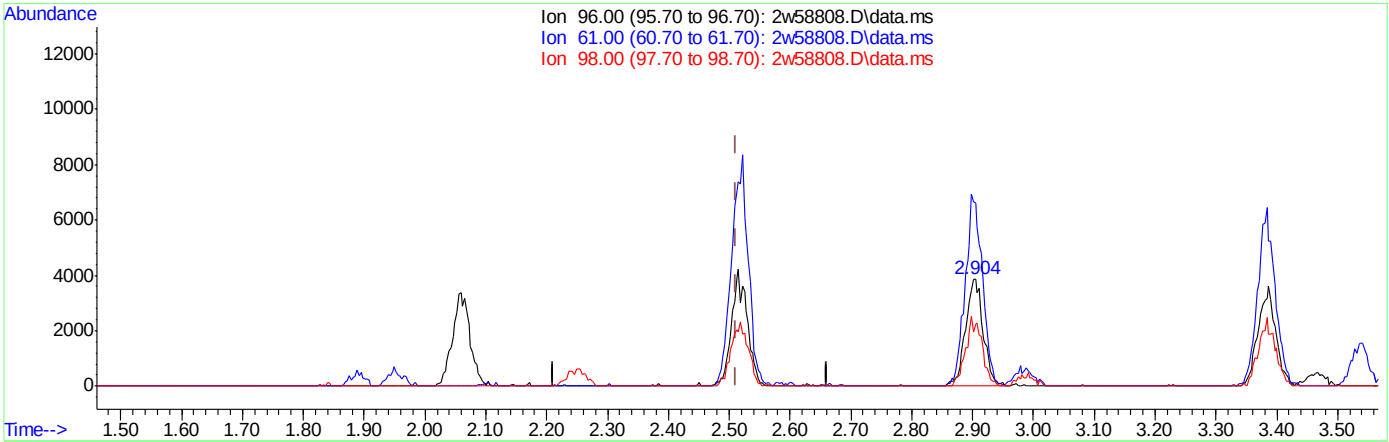
response 7596

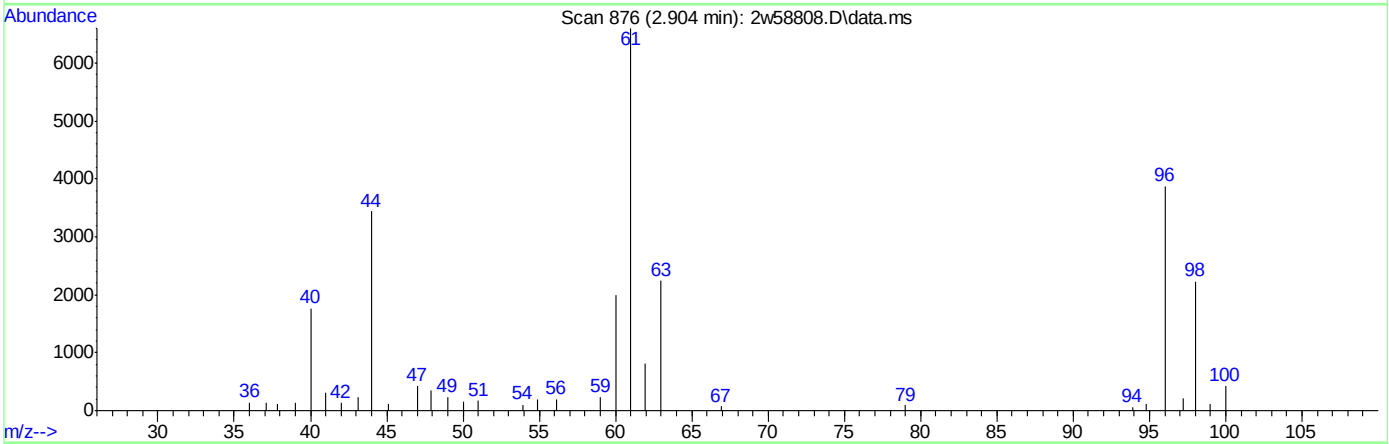
| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 130.40 | 206.85# |
| 98.00 | 63.30 | 59.66 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58808.D
Acq On : 26 Apr 2022 2:27 pm
Operator : thomash
Sample : ic2619-0.2
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:40:06 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58808.D\data.ms

(34) TRANS-1,2-DICHLOROETHENE (T)

2.904min (+0.392) 0.20PPBV m

response 7761

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 130.40 | 202.45# |
| 98.00 | 63.30 | 58.39 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 05/11/22 16:55

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58809.D
Acq On : 26 Apr 2022 3:05 pm
Operator : thomash
Sample : ic2619-0.5
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 14:44:36 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.470 | 128 | 266005 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.846 | 114 | 1691368 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.637 | 117 | 1594580 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.052 | 95 | 1146725 | 9.63 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) FREON 115 | 1.782 | 119 | 20276 | 0.38 | PPBV | # | 100 |
| 3) FREON 152A | 1.818 | 65 | 15902 | 0.52 | PPBV | # | 53 |
| 4) CHLORODIFLUOROMETHANE | 1.827 | 67 | 7090 | 0.52 | PPBV | # | 39 |
| 5) CHLOROTRIFLUOROETHENE | 1.837 | 116 | 31196 | 0.50 | PPBV | # | 98 |
| 6) DICHLORODIFLUOROMETHANE | 1.850 | 85 | 70512m | 0.51 | PPBV | | |
| 7) PROPYLENE | 1.834 | 41 | 28336 | 0.51 | PPBV | | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.888 | 65 | 47333 | 0.48 | PPBV | # | 52 |
| 9) FREON 114 | 1.924 | 85 | 57957 | 0.49 | PPBV | | 92 |
| 10) CHLOROMETHANE | 1.901 | 52 | 9624 | 0.58 | PPBV | | 74 |
| 11) VINYL CHLORIDE | 1.956 | 62 | 25082 | 0.51 | PPBV | | 95 |
| 12) 1,3-BUTADIENE | 1.985 | 54 | 23127 | 0.49 | PPBV | # | 76 |
| 13) N-BUTANE | 2.004 | 43 | 45115 | 0.51 | PPBV | # | 72 |
| 14) BROMOMETHANE | 2.062 | 94 | 18311 | 0.49 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.104 | 64 | 11854 | 0.50 | PPBV | # | 69 |
| 16) DICHLOROFLUOROMETHANE | 2.133 | 67 | 44757 | 0.49 | PPBV | # | 95 |
| 17) ACETONITRILE | 2.200 | 41 | 24609 | 0.49 | PPBV | # | 84 |
| 18) ACROLEIN | 2.229 | 56 | 10241 | 0.42 | PPBV | | 96 |
| 19) FREON 123 | 2.245 | 83 | 44981 | 0.48 | PPBV | | 99 |
| 20) FREON 123A | 2.261 | 117 | 25620 | 0.48 | PPBV | | 88 |
| 21) TRICHLOROFLUOROMETHANE | 2.322 | 101 | 54048 | 0.49 | PPBV | | 98 |
| 22) ISOPROPYL ALCOHOL | 2.339 | 45 | 64593 | 0.55 | PPBV | # | 97 |
| 23) ACETONE | 2.268 | 58 | 17536 | 0.67 | PPBV | # | 52 |
| 24) PENTANE | 2.432 | 42 | 31424 | 0.49 | PPBV | # | 95 |
| 25) IODOMETHANE | 2.490 | 142 | 45168 | 0.48 | PPBV | # | 80 |
| 26) 1,1-DICHLOROETHYLENE | 2.515 | 96 | 18648 | 0.48 | PPBV | # | 43 |
| 27) CARBON DISULFIDE | 2.657 | 76 | 54752 | 0.49 | PPBV | # | 80 |
| 28) ETHANOL | 2.133 | 45 | 20081 | 0.76 | PPBV | # | 96 |
| 29) BROMOETHENE | 2.200 | 106 | 18781 | 0.49 | PPBV | # | 97 |
| 30) ACRYLONITRILE | 2.403 | 52 | 20834 | 0.50 | PPBV | | 96 |
| 31) METHYLENE CHLORIDE | 2.551 | 84 | 21441 | 0.61 | PPBV | # | 25 |
| 32) 3-CHLOROPROPENE | 2.593 | 76 | 8528 | 0.48 | PPBV | # | 1 |
| 33) FREON 113 | 2.654 | 151 | 29559 | 0.48 | PPBV | | 83 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.904 | 96 | 18836m | 0.48 | PPBV | | |
| 35) TERTIARY BUTYL ALCOHOL | 2.531 | 59 | 47731 | 0.40 | PPBV | # | 80 |
| 36) METHYL TERTIARY BUTYL ... | 3.023 | 73 | 55641 | 0.46 | PPBV | # | 84 |
| 37) TETRAHYDROFURAN | 3.782 | 72 | 8012 | 0.46 | PPBV | # | 1 |
| 38) HEXANE | 3.525 | 57 | 43650 | 0.49 | PPBV | # | 75 |
| 39) VINYL ACETATE | 3.065 | 86 | 3840 | 0.40 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.988 | 63 | 39304 | 0.47 | PPBV | | 96 |
| 41) METHYL ETHYL KETONE | 3.171 | 72 | 8620 | 0.46 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.387 | 96 | 18285 | 0.46 | PPBV | # | 70 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58809.D
Acq On : 26 Apr 2022 3:05 pm
Operator : thomash
Sample : ic2619-0.5
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 14:44:36 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 43) | DIISOPROPYL ETHER | 3.531 | 59 | 12546 | 0.50 | PPBV | # | 30 |
| 44) | ETHYL ACETATE | 3.538 | 61 | 7898 | 0.48 | PPBV | # | 1 |
| 45) | METHYL ACRYLATE | 3.522 | 55 | 55417 | 0.48 | PPBV | # | 98 |
| 46) | CHLOROFORM | 3.548 | 83 | 43204 | 0.49 | PPBV | # | 88 |
| 47) | 2,4-DIMETHYLPENTANE | 4.078 | 57 | 49049 | 0.47 | PPBV | # | 91 |
| 48) | 1,1,1-TRICHLOROETHANE | 4.165 | 97 | 41442 | 0.45 | PPBV | | 95 |
| 49) | CARBON TETRACHLORIDE | 4.612 | 117 | 41129 | 0.39 | PPBV | | 99 |
| 50) | 1,2-DICHLOROETHANE | 3.985 | 62 | 31676 | 0.47 | PPBV | # | 95 |
| 51) | BENZENE | 4.493 | 78 | 52967 | 0.39 | PPBV | | 63 |
| 53) | CYCLOHEXANE | 4.721 | 84 | 27391 | 0.46 | PPBV | # | 48 |
| 54) | 2,3-DIMETHYLPENTANE | 4.991 | 71 | 15951 | 0.49 | PPBV | # | 14 |
| 55) | TRICHLOROETHENE | 5.451 | 95 | 30267 | 0.46 | PPBV | | 93 |
| 56) | 1,2-DICHLOROPROPANE | 5.207 | 63 | 31196 | 0.48 | PPBV | | 96 |
| 57) | DIBROMOMETHANE | 5.165 | 174 | 25935 | 0.49 | PPBV | | 87 |
| 58) | ETHYL ACRYLATE | 5.335 | 55 | 76512 | 0.44 | PPBV | # | 95 |
| 59) | BROMODICHLOROMETHANE | 5.400 | 83 | 50604 | 0.45 | PPBV | | 99 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.547 | 57 | 167283 | 0.48 | PPBV | # | 98 |
| 61) | 1,4-DIOXANE | 5.477 | 88 | 14553 | 0.44 | PPBV | # | 73 |
| 62) | HEPTANE | 5.882 | 43 | 66480 | 0.46 | PPBV | # | 67 |
| 63) | METHYL METHACRYLATE | 5.782 | 69 | 24942 | 0.45 | PPBV | # | 25 |
| 64) | METHYL ISOBUTYL KETONE | 6.551 | 58 | 28916 | 0.43 | PPBV | # | 62 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.435 | 75 | 37434 | 0.45 | PPBV | # | 64 |
| 66) | TOLUENE | 7.692 | 91 | 80025 | 0.44 | PPBV | | 99 |
| 67) | 1,3-DICHLOROPROPANE | 7.756 | 76 | 39436 | 0.43 | PPBV | # | 97 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.145 | 75 | 33295 | 0.42 | PPBV | # | 70 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.313 | 83 | 23573 | 0.44 | PPBV | | 99 |
| 70) | 2-HEXANONE | 8.284 | 58 | 35468 | 0.39 | PPBV | # | 61 |
| 71) | ETHYL METHACRYLATE | 8.419 | 69 | 41320 | 0.41 | PPBV | # | 56 |
| 72) | TETRACHLOROETHENE | 9.473 | 164 | 27072 | 0.43 | PPBV | | 90 |
| 73) | DIBROMOCHLOROMETHANE | 8.248 | 129 | 48322 | 0.42 | PPBV | | 99 |
| 74) | 1,2-DIBROMOETHANE | 8.599 | 107 | 42305 | 0.42 | PPBV | # | 98 |
| 75) | OCTANE | 9.615 | 43 | 86803 | 0.42 | PPBV | # | 70 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.724 | 131 | 36478 | 0.43 | PPBV | | 92 |
| 78) | CHLOROBENZENE | 10.708 | 112 | 68887 | 0.44 | PPBV | | 98 |
| 79) | ETHYLBENZENE | 11.611 | 91 | 110613 | 0.43 | PPBV | | 98 |
| 80) | M,P-XYLENE | 11.997 | 91 | 168268 | 0.81 | PPBV | # | 64 |
| 81) | O-XYLENE | 12.984 | 91 | 84476 | 0.40 | PPBV | | 93 |
| 82) | STYRENE | 12.766 | 104 | 61452 | 0.40 | PPBV | | 96 |
| 83) | NONANE | 14.110 | 43 | 97039 | 0.43 | PPBV | # | 72 |
| 84) | BROMOFORM | 11.853 | 173 | 39108 | 0.36 | PPBV | # | 97 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 13.004 | 83 | 54732 | 0.36 | PPBV | | 100 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.287 | 75 | 43909 | 0.38 | PPBV | # | 99 |
| 88) | ISOPROPYLBENZENE | 14.521 | 120 | 32926 | 0.42 | PPBV | | 89 |
| 89) | BROMOBENZENE | 14.390 | 77 | 58223 | 0.41 | PPBV | | 87 |
| 90) | 2-CHLOROTOLUENE | 15.541 | 126 | 26789 | 0.41 | PPBV | | 100 |
| 91) | N-PROPYLBENZENE | 15.875 | 120 | 31124 | 0.39 | PPBV | | 99 |
| 92) | 4-ETHYLTOLUENE | 16.206 | 105 | 109397 | 0.36 | PPBV | | 99 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.354 | 105 | 93014 | 0.37 | PPBV | | 97 |
| 94) | ALPHA-METHYLSTYRENE | 16.547 | 118 | 43981 | 0.35 | PPBV | | 98 |
| 95) | TERT-BUTYLBENZENE | 16.798 | 134 | 20857 | 0.39 | PPBV | | 82 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58809.D
Acq On : 26 Apr 2022 3:05 pm
Operator : thomash
Sample : ic2619-0.5
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 14:44:36 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

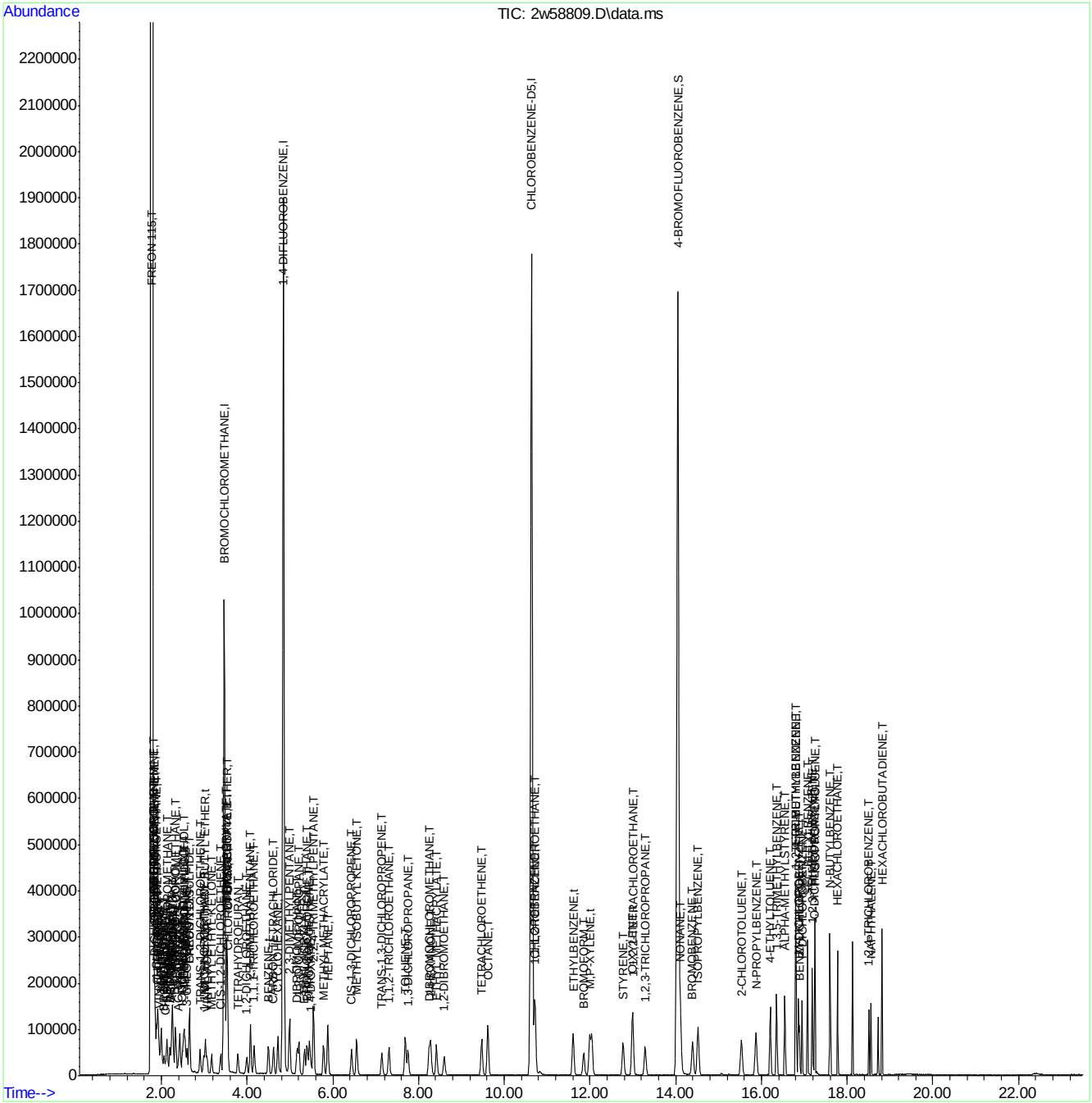
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.807 | 105 | 91114 | 0.36 | PPBV | | 98 |
| 97) | BENZYL CHLORIDE | 16.888 | 91 | 55312 | 0.26 | PPBV | # | 95 |
| 98) | M-DICHLOROBENZENE | 16.865 | 146 | 47828 | 0.34 | PPBV | | 95 |
| 99) | P-DICHLOROBENZENE | 16.949 | 146 | 47032 | 0.34 | PPBV | | 96 |
| 100) | O-DICHLOROBENZENE | 17.241 | 146 | 45768 | 0.35 | PPBV | | 96 |
| 101) | SEC-BUTYLBENZENE | 17.078 | 134 | 25978 | 0.40 | PPBV | | 84 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.187 | 105 | 85625 | 0.36 | PPBV | | 98 |
| 103) | P-ISOPROPYLTOLUENE | 17.254 | 134 | 27382 | 0.40 | PPBV | | 88 |
| 104) | N-BUTYLBENZENE | 17.598 | 134 | 23778 | 0.37 | PPBV | | 85 |
| 105) | HEXACHLOROETHANE | 17.775 | 117 | 34865 | 0.34 | PPBV | # | 86 |
| 106) | HEXACHLOROBUTADIENE | 18.814 | 225 | 25987 | 0.30 | PPBV | | 99 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.508 | 180 | 22503 | 0.26 | PPBV | | 96 |
| 108) | NAPHTHALENE | 18.557 | 128 | 64532 | 0.28 | PPBV | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58809.D
Acq On : 26 Apr 2022 3:05 pm
Operator : thomash
Sample : ic2619-0.5
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 11 14:44:36 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V2W2619-IC2619
**Lab FileID:** 2W58809.D
**Injection Time:** 04/26/22 15:05

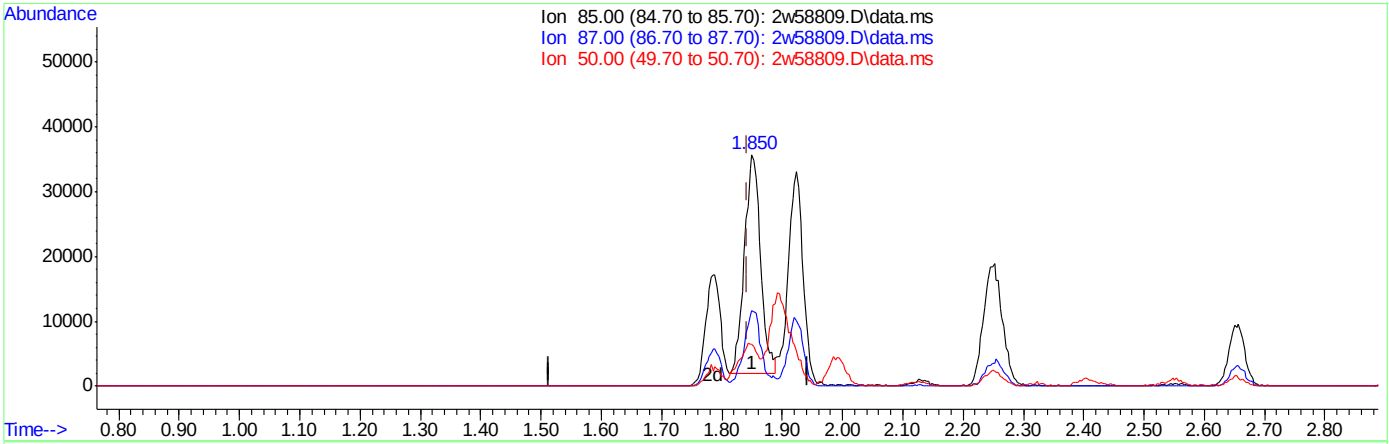
**Method:** TO-15
**Analyst approved:** 05/11/22 16:26 Thomas Hilbig
**Supervisor approved:** 05/11/22 16:55 Kanya Veerawat

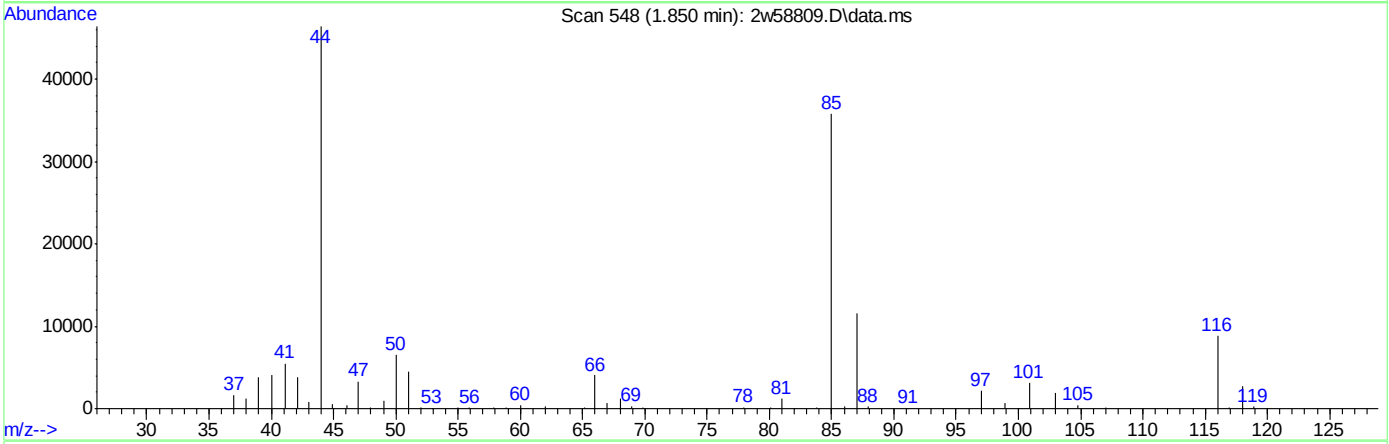
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.85 | Poorly defined baseline |
| trans-1,2-Dichloroethylene | 156-60-5 | | 2.90 | Missed peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58809.D
Acq On : 26 Apr 2022 3:05 pm
Operator : thomash
Sample : ic2620-0.5
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:11:46 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58809.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.850min (+0.006) 0.45PPBV

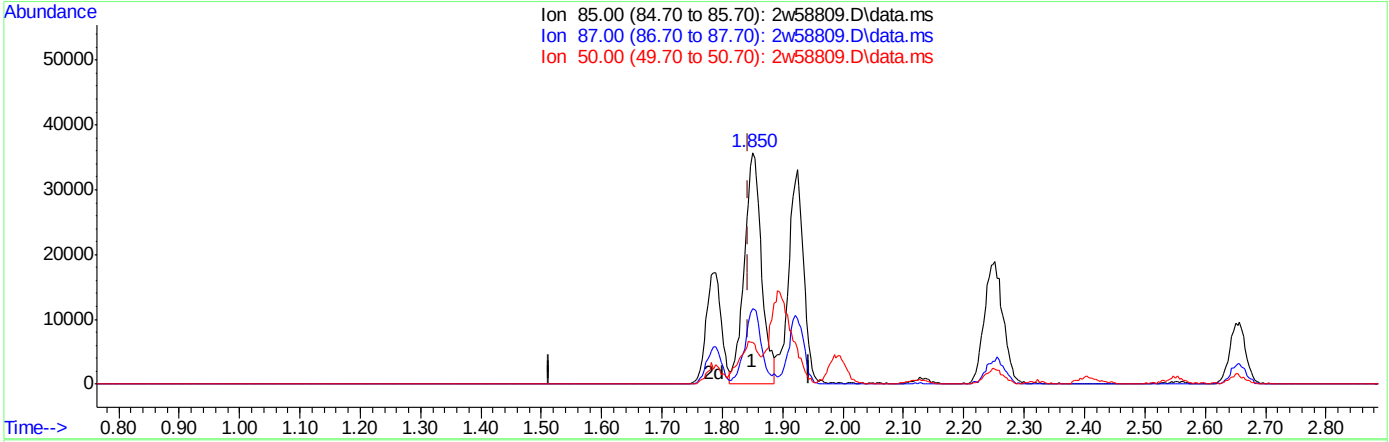
response 62517

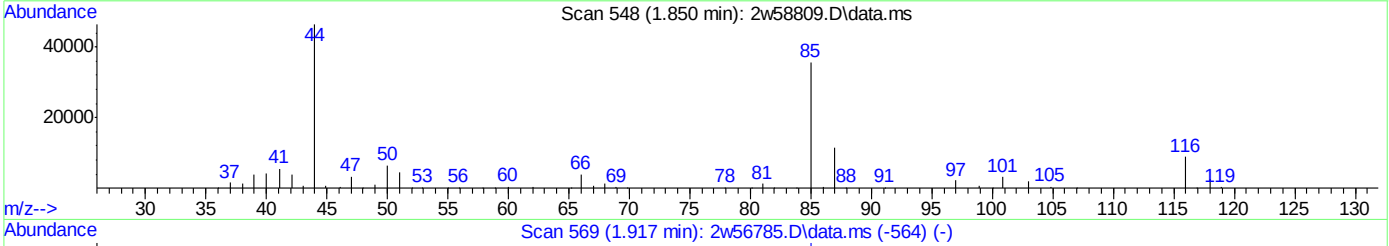
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.13 |
| 50.00 | 9.30 | 16.31# |
| 0.00 | 0.00 | 0.00 |

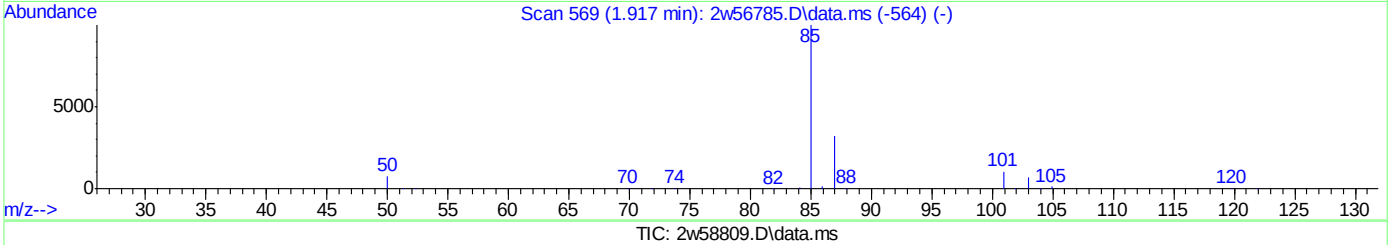
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58809.D
Acq On : 26 Apr 2022 3:05 pm
Operator : thomash
Sample : ic2620-0.5
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:11:46 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58809.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.850min (+0.006) 0.51PPBV m

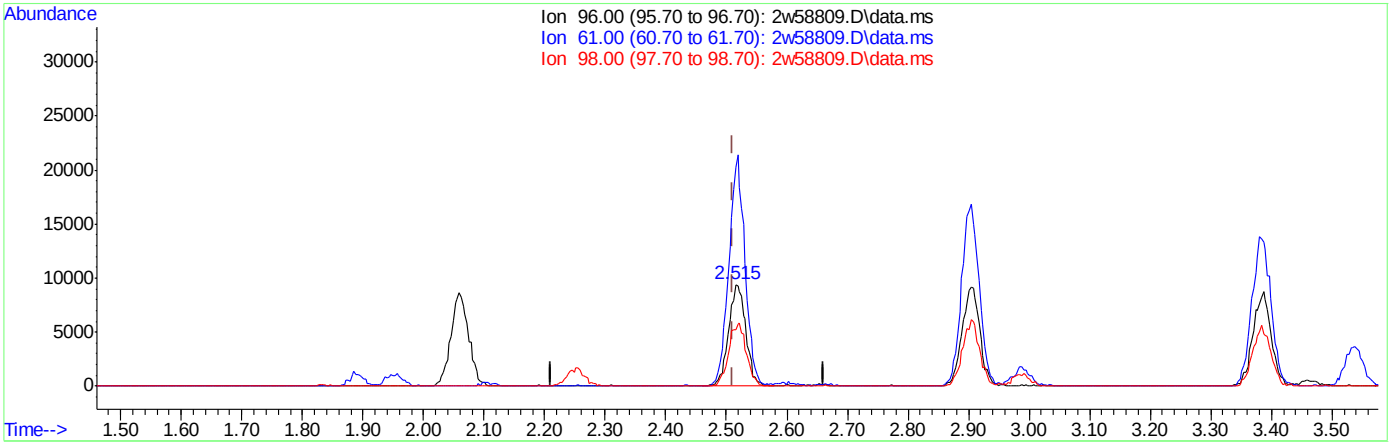
response 70512

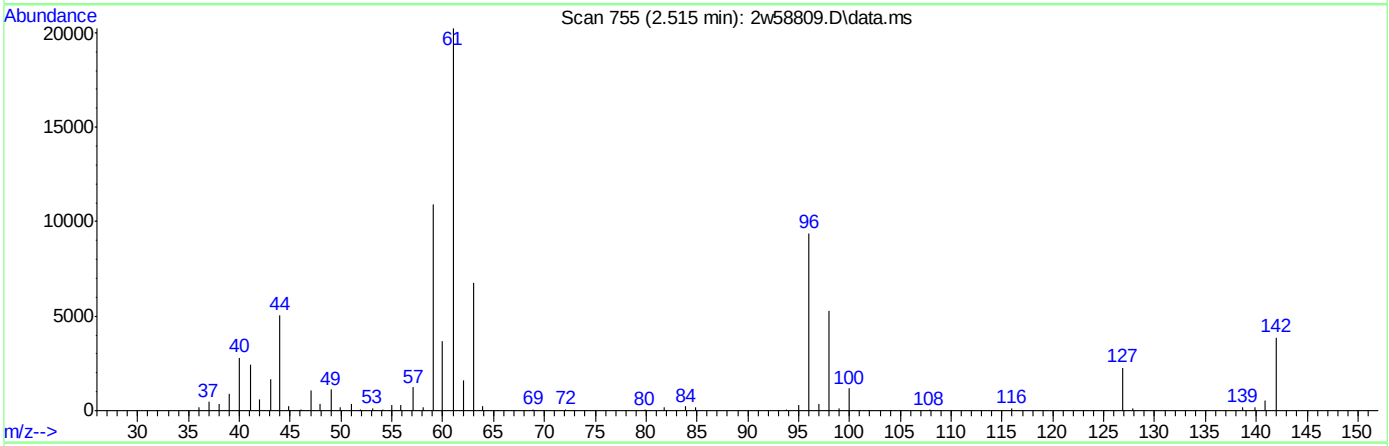
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 28.49 |
| 50.00 | 9.30 | 14.46# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58809.D
Acq On : 26 Apr 2022 3:05 pm
Operator : thomash
Sample : ic2619-0.5
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:12:04 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58809.D\data.ms

(34) TRANS-1,2-DICHLOROETHENE (T)

2.515min (+0.003) 0.48PPBV

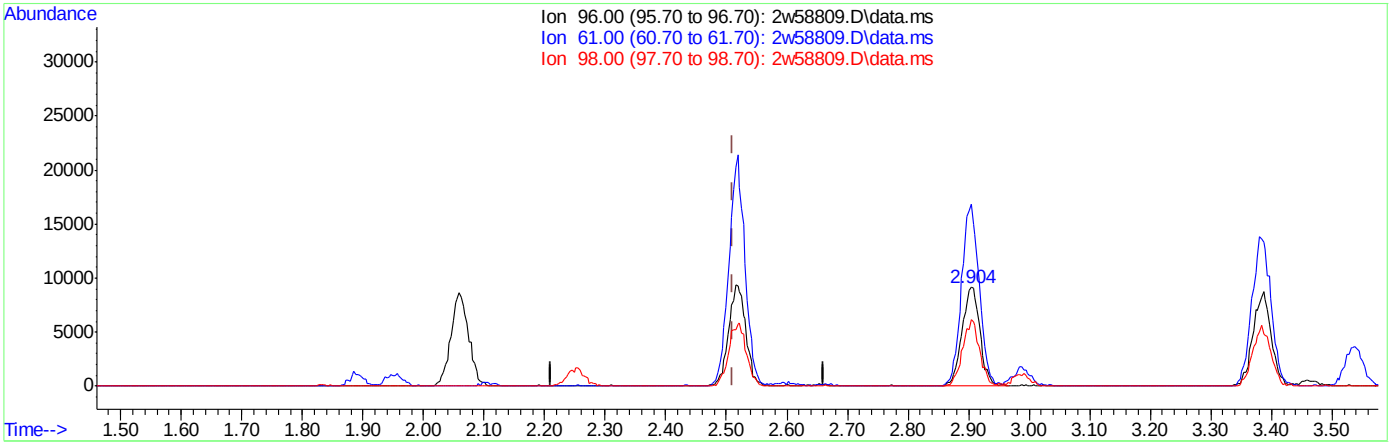
response 18648

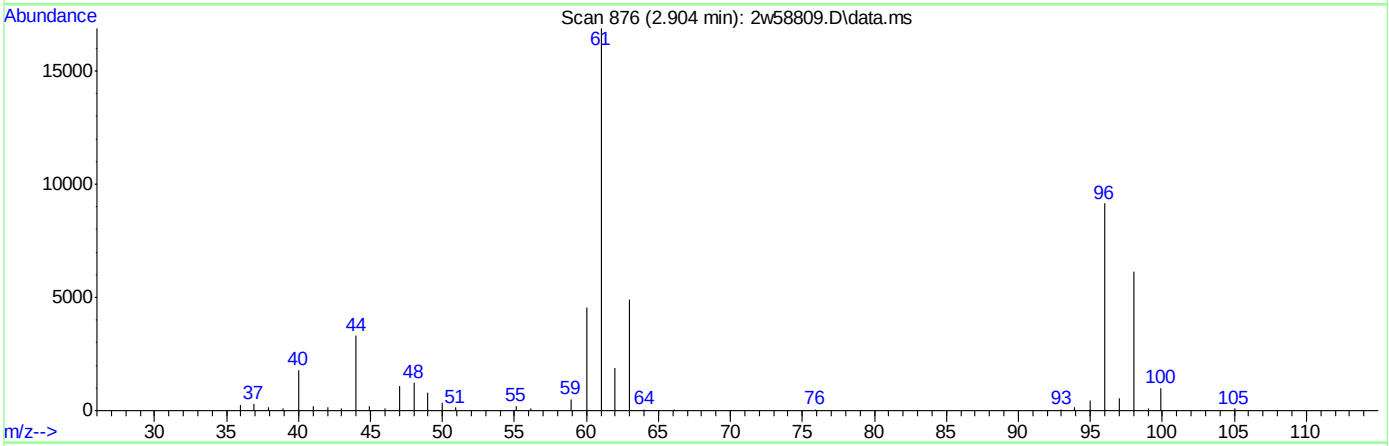
| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 130.40 | 213.22# |
| 98.00 | 63.30 | 63.52 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58809.D
Acq On : 26 Apr 2022 3:05 pm
Operator : thomash
Sample : ic2619-0.5
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 09:12:04 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58809.D\data.ms

(34) TRANS-1,2-DICHLOROETHENE (T)

2.904min (+0.392) 0.48PPBV m

response 18836

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 130.40 | 211.09# |
| 98.00 | 63.30 | 62.89 |
| 0.00 | 0.00 | 0.00 |



2W58809.D edits: TRANS-1,2-DICHLOROETHENE

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 05/11/22 16:55

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58810.D
Acq On : 26 Apr 2022 3:42 pm
Operator : thomash
Sample : ic2619-5
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:45:17 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.467 | 128 | 278025 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.847 | 114 | 1767526 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.641 | 117 | 1621830 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.055 | 95 | 1199508 | 9.90 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) FREON 115 | 1.786 | 119 | 293439 | 5.21 | PPBV | # | 100 |
| 3) FREON 152A | 1.818 | 65 | 156893m | 4.92 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.824 | 67 | 70459 | 4.93 | PPBV | # | 39 |
| 5) CHLOROTRIFLUOROETHENE | 1.837 | 116 | 323951 | 5.01 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.850 | 85 | 736704m | 5.07 | PPBV | | |
| 7) PROPYLENE | 1.831 | 41 | 277266 | 4.77 | PPBV | | 100 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.889 | 65 | 509641 | 4.98 | PPBV | # | 73 |
| 9) FREON 114 | 1.921 | 85 | 603221 | 4.84 | PPBV | | 92 |
| 10) CHLOROMETHANE | 1.892 | 52 | 86204 | 5.00 | PPBV | # | 65 |
| 11) VINYL CHLORIDE | 1.953 | 62 | 258040 | 5.05 | PPBV | | 96 |
| 12) 1,3-BUTADIENE | 1.988 | 54 | 242796 | 4.96 | PPBV | # | 82 |
| 13) N-BUTANE | 2.004 | 43 | 472301 | 5.06 | PPBV | # | 90 |
| 14) BROMOMETHANE | 2.062 | 94 | 196608 | 5.06 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.107 | 64 | 125633 | 5.05 | PPBV | # | 76 |
| 16) DICHLOROFLUOROMETHANE | 2.130 | 67 | 488190 | 5.09 | PPBV | # | 94 |
| 17) ACETONITRILE | 2.194 | 41 | 260215 | 5.00 | PPBV | | 97 |
| 18) ACROLEIN | 2.229 | 56 | 125748 | 4.97 | PPBV | | 96 |
| 19) FREON 123 | 2.245 | 83 | 494810 | 5.07 | PPBV | | 99 |
| 20) FREON 123A | 2.258 | 117 | 280242 | 5.05 | PPBV | | 89 |
| 21) TRICHLOROFLUOROMETHANE | 2.323 | 101 | 577633 | 5.00 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.335 | 45 | 625203 | 5.06 | PPBV | # | 96 |
| 23) ACETONE | 2.268 | 58 | 140631 | 5.11 | PPBV | # | 46 |
| 24) PENTANE | 2.432 | 42 | 333834 | 5.02 | PPBV | # | 94 |
| 25) IODOMETHANE | 2.490 | 142 | 498486 | 5.02 | PPBV | # | 81 |
| 26) 1,1-DICHLOROETHYLENE | 2.519 | 96 | 207997 | 5.15 | PPBV | # | 45 |
| 27) CARBON DISULFIDE | 2.654 | 76 | 601090 | 5.13 | PPBV | # | 87 |
| 28) ETHANOL | 2.136 | 45 | 138071 | 5.01 | PPBV | | 97 |
| 29) BROMOETHENE | 2.200 | 106 | 201300 | 5.07 | PPBV | # | 98 |
| 30) ACRYLONITRILE | 2.400 | 52 | 217577 | 4.95 | PPBV | | 96 |
| 31) METHYLENE CHLORIDE | 2.554 | 84 | 190706 | 5.17 | PPBV | # | 24 |
| 32) 3-CHLOROPROPENE | 2.596 | 76 | 89868 | 4.82 | PPBV | # | 1 |
| 33) FREON 113 | 2.654 | 151 | 324853 | 5.07 | PPBV | | 83 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.905 | 96 | 207586m | 5.11 | PPBV | | |
| 35) TERTIARY BUTYL ALCOHOL | 2.525 | 59 | 637382 | 5.07 | PPBV | # | 77 |
| 36) METHYL TERTIARY BUTYL ... | 3.024 | 73 | 625784 | 4.99 | PPBV | # | 86 |
| 37) TETRAHYDROFURAN | 3.776 | 72 | 91329 | 4.99 | PPBV | # | 1 |
| 38) HEXANE | 3.522 | 57 | 474485 | 5.08 | PPBV | # | 77 |
| 39) VINYL ACETATE | 3.062 | 86 | 50884 | 5.04 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.988 | 63 | 435132 | 5.00 | PPBV | | 96 |
| 41) METHYL ETHYL KETONE | 3.168 | 72 | 98150 | 5.04 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.387 | 96 | 203923 | 4.94 | PPBV | # | 68 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58810.D
Acq On : 26 Apr 2022 3:42 pm
Operator : thomash
Sample : ic2619-5
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:45:17 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 43) | DIISOPROPYL ETHER | 3.532 | 59 | 131228 | 5.02 | PPBV | # | 23 |
| 44) | ETHYL ACETATE | 3.535 | 61 | 84778 | 4.93 | PPBV | # | 1 |
| 45) | METHYL ACRYLATE | 3.522 | 55 | 607088 | 5.03 | PPBV | # | 96 |
| 46) | CHLOROFORM | 3.548 | 83 | 461095 | 5.05 | PPBV | # | 92 |
| 47) | 2,4-DIMETHYLPENTANE | 4.078 | 57 | 535955 | 4.90 | PPBV | # | 90 |
| 48) | 1,1,1-TRICHLOROETHANE | 4.165 | 97 | 475888 | 4.92 | PPBV | | 95 |
| 49) | CARBON TETRACHLORIDE | 4.615 | 117 | 507117 | 4.66 | PPBV | | 98 |
| 50) | 1,2-DICHLOROETHANE | 3.991 | 62 | 348085 | 4.96 | PPBV | # | 93 |
| 51) | BENZENE | 4.496 | 78 | 568527 | 4.05 | PPBV | | 63 |
| 53) | CYCLOHEXANE | 4.718 | 84 | 308776 | 4.91 | PPBV | # | 48 |
| 54) | 2,3-DIMETHYLPENTANE | 4.991 | 71 | 168236 | 4.98 | PPBV | # | 12 |
| 55) | TRICHLOROETHENE | 5.454 | 95 | 344146 | 5.02 | PPBV | | 93 |
| 56) | 1,2-DICHLOROPROPANE | 5.213 | 63 | 338793 | 4.98 | PPBV | | 97 |
| 57) | DIBROMOMETHANE | 5.168 | 174 | 272991 | 4.96 | PPBV | # | 85 |
| 58) | ETHYL ACRYLATE | 5.339 | 55 | 889496 | 4.85 | PPBV | # | 96 |
| 59) | BROMODICHLOROMETHANE | 5.400 | 83 | 583385 | 4.95 | PPBV | | 100 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.551 | 57 | 1839237 | 5.09 | PPBV | # | 98 |
| 61) | 1,4-DIOXANE | 5.474 | 88 | 175036 | 5.12 | PPBV | # | 60 |
| 62) | HEPTANE | 5.885 | 43 | 752752 | 4.97 | PPBV | # | 66 |
| 63) | METHYL METHACRYLATE | 5.782 | 69 | 292859 | 5.03 | PPBV | # | 24 |
| 64) | METHYL ISOBUTYL KETONE | 6.557 | 58 | 340993 | 4.87 | PPBV | # | 61 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.438 | 75 | 429084 | 4.92 | PPBV | # | 65 |
| 66) | TOLUENE | 7.695 | 91 | 913696 | 4.76 | PPBV | | 100 |
| 67) | 1,3-DICHLOROPROPANE | 7.756 | 76 | 464600 | 4.81 | PPBV | # | 97 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.149 | 75 | 397009 | 4.80 | PPBV | # | 70 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.313 | 83 | 266499 | 4.71 | PPBV | | 98 |
| 70) | 2-HEXANONE | 8.281 | 58 | 454971 | 4.83 | PPBV | # | 64 |
| 71) | ETHYL METHACRYLATE | 8.419 | 69 | 512389 | 4.85 | PPBV | # | 53 |
| 72) | TETRACHLOROETHENE | 9.473 | 164 | 313657 | 4.79 | PPBV | | 90 |
| 73) | DIBROMOCHLOROMETHANE | 8.248 | 129 | 575300 | 4.76 | PPBV | | 98 |
| 74) | 1,2-DIBROMOETHANE | 8.605 | 107 | 510892 | 4.88 | PPBV | | 100 |
| 75) | OCTANE | 9.621 | 43 | 1038276 | 4.82 | PPBV | # | 70 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.727 | 131 | 419524 | 4.88 | PPBV | | 92 |
| 78) | CHLOROBENZENE | 10.715 | 112 | 784493 | 4.90 | PPBV | | 97 |
| 79) | ETHYLBENZENE | 11.612 | 91 | 1266044 | 4.82 | PPBV | | 97 |
| 80) | M,P-XYLENE | 12.046 | 91 | 2071024 | 9.77 | PPBV | # | 65 |
| 81) | O-XYLENE | 12.997 | 91 | 1019415 | 4.78 | PPBV | | 98 |
| 82) | STYRENE | 12.779 | 104 | 746397 | 4.81 | PPBV | | 96 |
| 83) | NONANE | 14.120 | 43 | 1132749 | 4.88 | PPBV | # | 74 |
| 84) | BROMOFORM | 11.862 | 173 | 515583 | 4.64 | PPBV | # | 97 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 13.007 | 83 | 745691 | 4.77 | PPBV | | 100 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.293 | 75 | 561734 | 4.79 | PPBV | # | 100 |
| 88) | ISOPROPYLBENZENE | 14.525 | 120 | 394992 | 4.94 | PPBV | | 87 |
| 89) | BROMOBENZENE | 14.399 | 77 | 705940 | 4.91 | PPBV | | 88 |
| 90) | 2-CHLOROTOLUENE | 15.544 | 126 | 319215 | 4.80 | PPBV | | 99 |
| 91) | N-PROPYLBENZENE | 15.882 | 120 | 383258 | 4.67 | PPBV | | 99 |
| 92) | 4-ETHYLTOLUENE | 16.210 | 105 | 1452501 | 4.72 | PPBV | | 98 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.357 | 105 | 1246522 | 4.84 | PPBV | | 96 |
| 94) | ALPHA-METHYLSTYRENE | 16.550 | 118 | 627697 | 4.86 | PPBV | | 98 |
| 95) | TERT-BUTYLBENZENE | 16.804 | 134 | 264984 | 4.88 | PPBV | | 79 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58810.D
Acq On : 26 Apr 2022 3:42 pm
Operator : thomash
Sample : ic2619-5
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:45:17 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

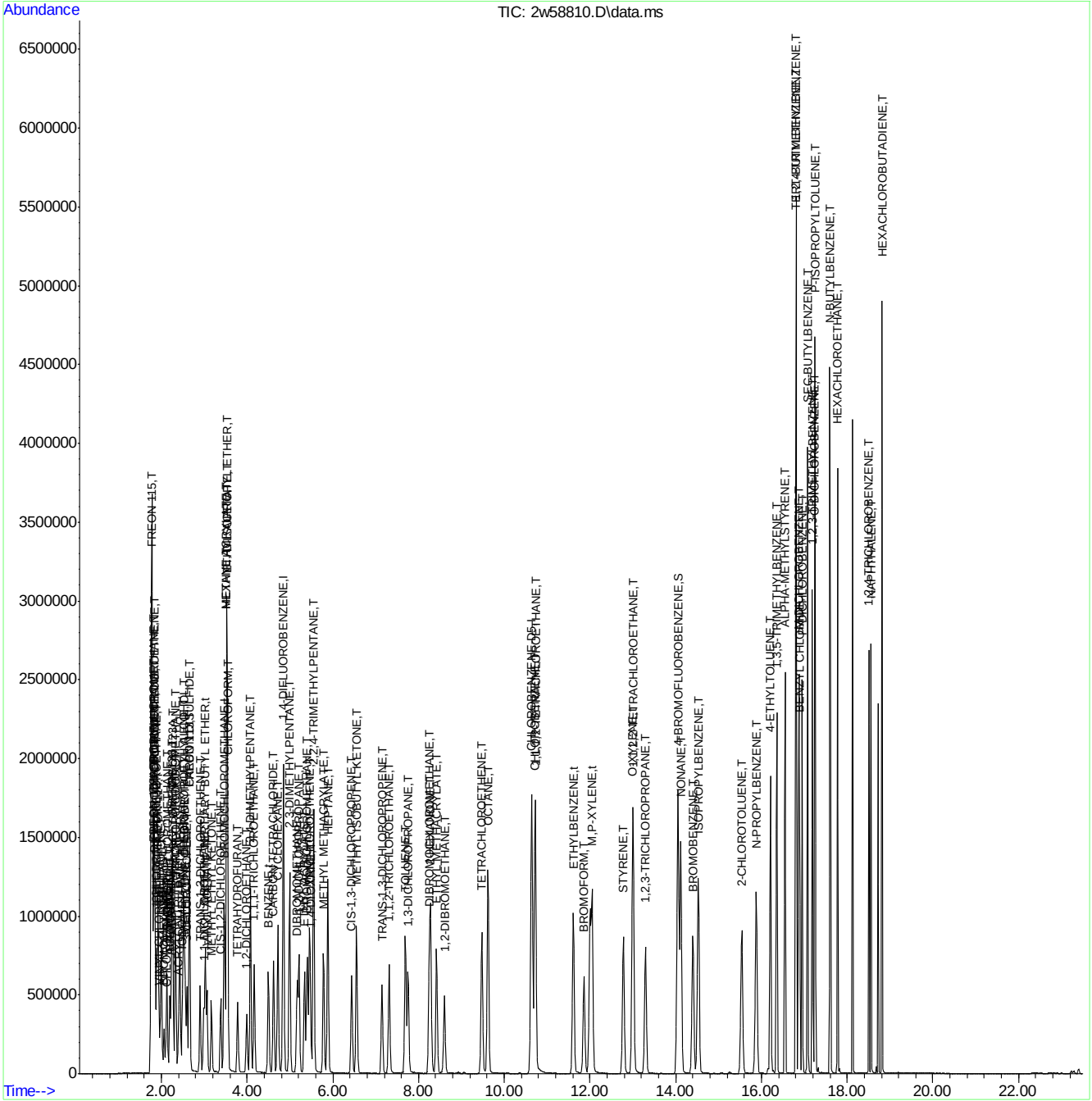
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 96) 1,2,4-TRIMETHYLBENZENE | 16.811 | 105 | 1255065 | 4.90 | PPBV | | 93 |
| 97) BENZYL CHLORIDE | 16.891 | 91 | 1036514 | 4.79 | PPBV | # | 95 |
| 98) M-DICHLOROBENZENE | 16.872 | 146 | 703299 | 4.92 | PPBV | | 96 |
| 99) P-DICHLOROBENZENE | 16.952 | 146 | 696504 | 4.96 | PPBV | | 97 |
| 100) O-DICHLOROBENZENE | 17.242 | 146 | 659086 | 4.94 | PPBV | | 96 |
| 101) SEC-BUTYLBENZENE | 17.078 | 134 | 332258 | 5.01 | PPBV | | 80 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.190 | 105 | 1195356 | 4.98 | PPBV | | 97 |
| 103) P-ISOPROPYLTOLUENE | 17.255 | 134 | 355138 | 5.11 | PPBV | | 82 |
| 104) N-BUTYLBENZENE | 17.599 | 134 | 320336 | 4.94 | PPBV | | 76 |
| 105) HEXACHLOROETHANE | 17.775 | 117 | 510861 | 4.96 | PPBV | # | 88 |
| 106) HEXACHLOROBUTADIENE | 18.814 | 225 | 422355 | 4.81 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.508 | 180 | 412461 | 4.60 | PPBV | | 97 |
| 108) NAPHTHALENE | 18.557 | 128 | 1106677 | 4.66 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58810.D
Acq On : 26 Apr 2022 3:42 pm
Operator : thomash
Sample : ic2619-5
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:45:17 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V2W2619-IC2619
**Lab FileID:** 2W58810.D
**Injection Time:** 04/26/22 15:42

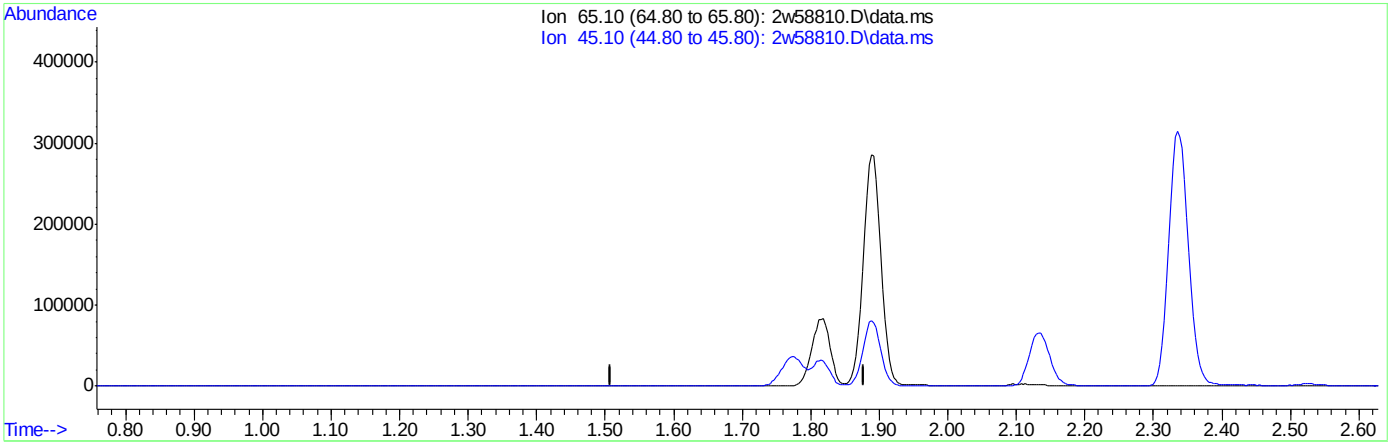
**Method:** TO-15
**Analyst approved:** 05/11/22 16:26 Thomas Hilbig
**Supervisor approved:** 05/11/22 16:55 Kanya Veerawat

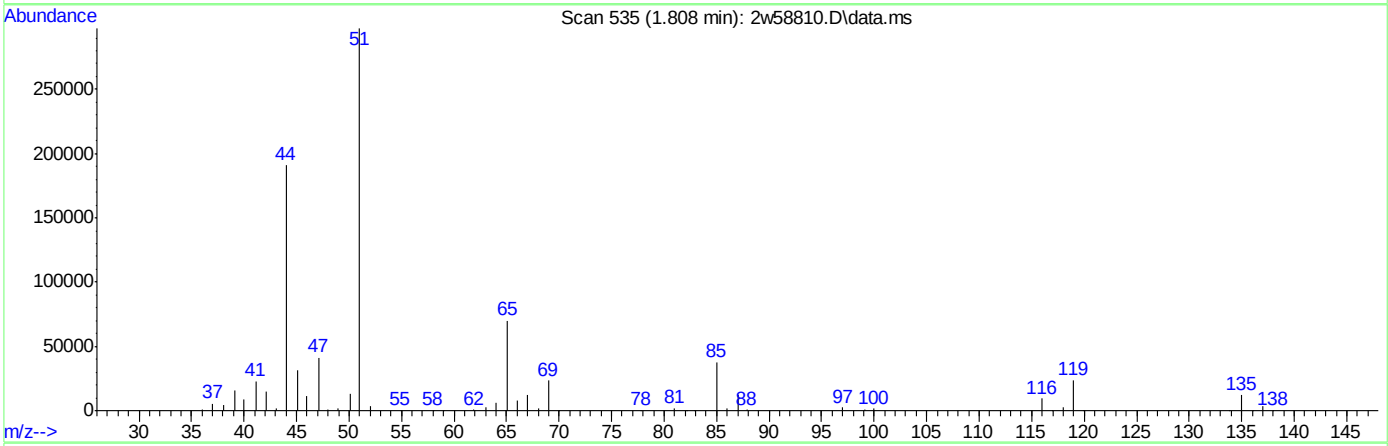
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.82 | Missed peak |
| Dichlorodifluoromethane | 75-71-8 | | 1.85 | Poorly defined baseline |
| trans-1,2-Dichloroethylene | 156-60-5 | | 2.90 | Missed peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58810.D
Acq On : 26 Apr 2022 3:42 pm
Operator : thomash
Sample : ic2620-5
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 09:14:07 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58810.D\data.ms

(3) FREON 152A (T)

1.808min (-1.808) 0.00PPBV

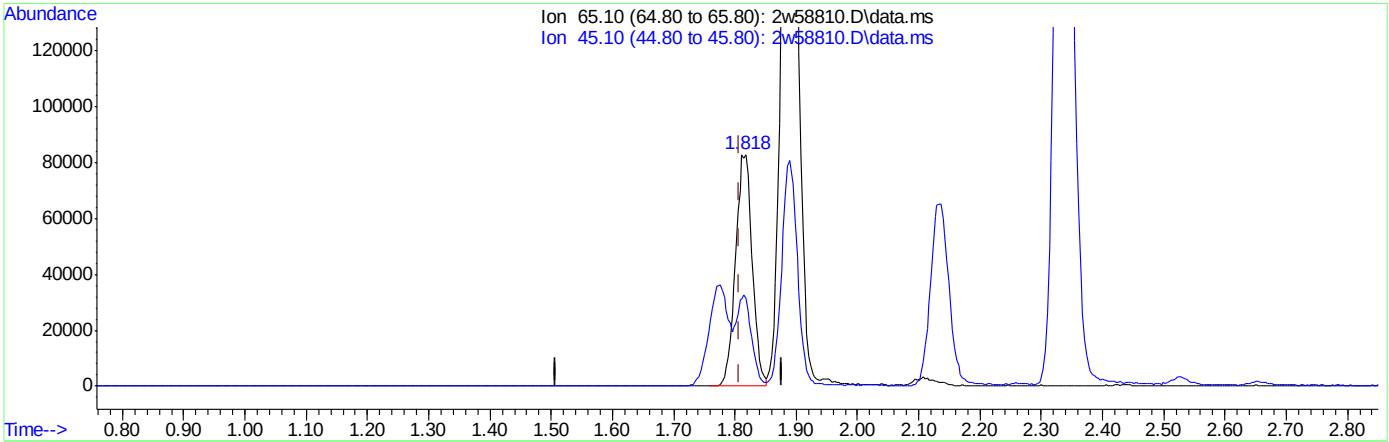
response 0

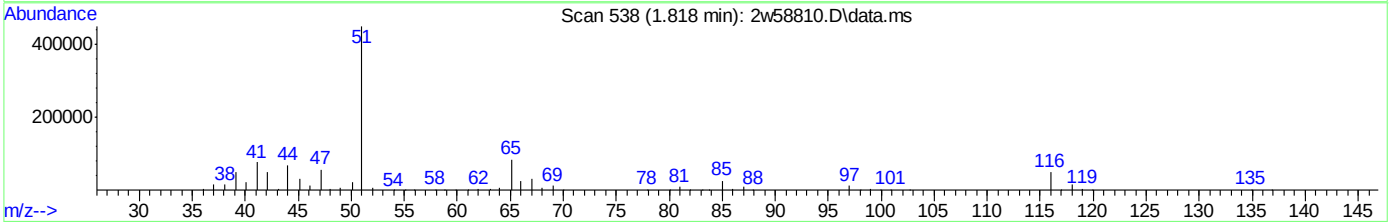
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 0.00 |
| 45.10 | 22.90 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

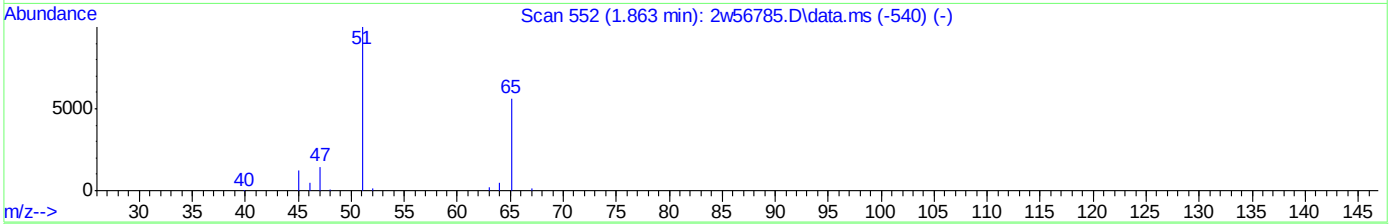
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58810.D
Acq On : 26 Apr 2022 3:42 pm
Operator : thomash
Sample : ic2620-5
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 09:14:07 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58810.D\data.ms

(3) FREON 152A (T)

1.818min (+0.010) 4.92PPBV m

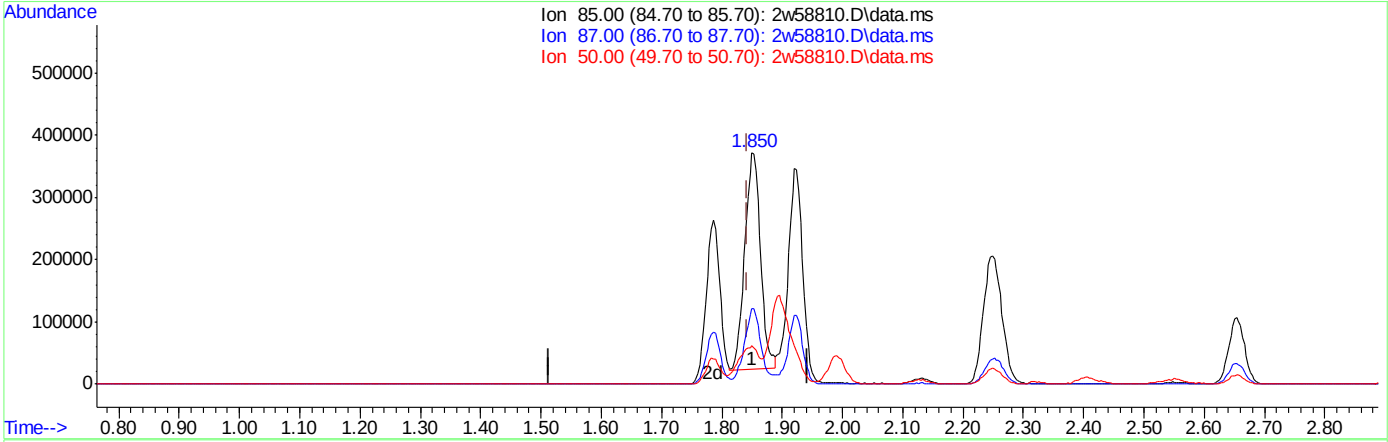
response 156893

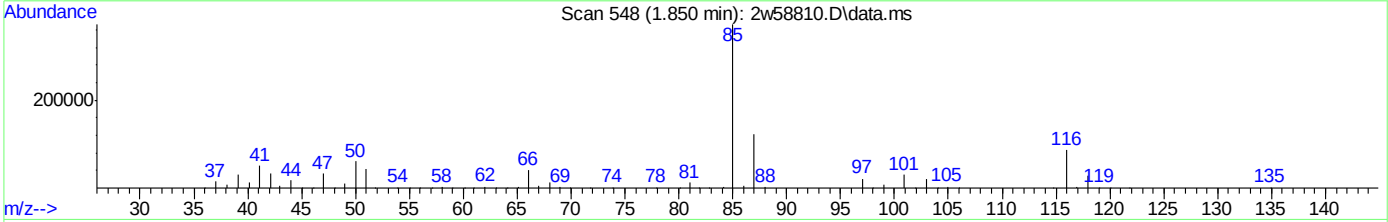
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 22.90 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

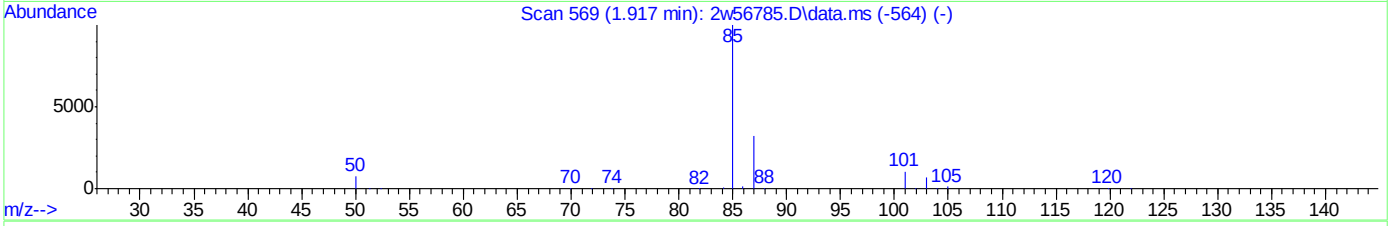
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58810.D
Acq On : 26 Apr 2022 3:42 pm
Operator : thomash
Sample : ic2620-5
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 09:14:07 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58810.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.850min (+0.006) 4.34PPBV

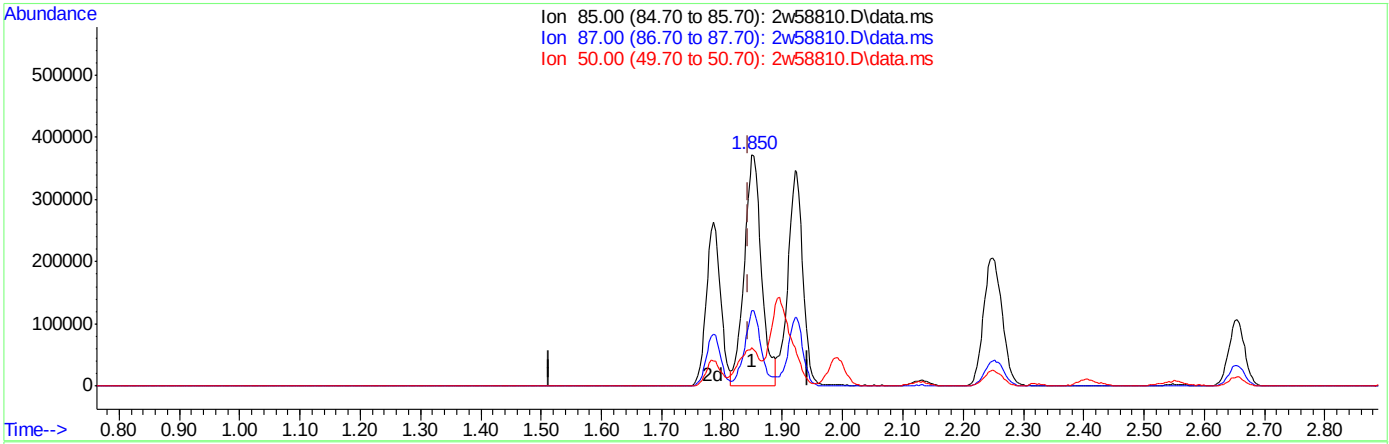
response 631177

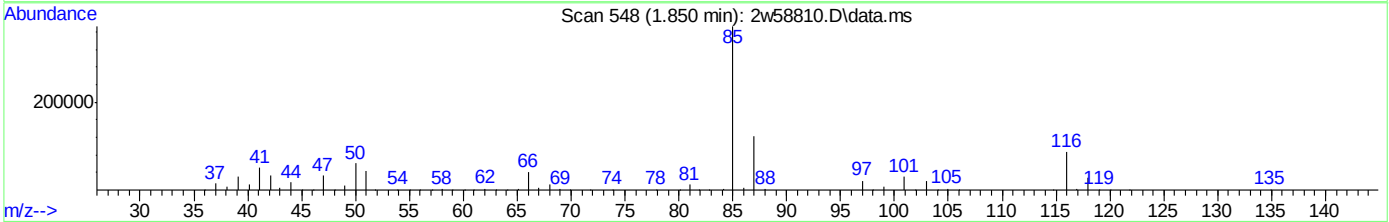
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.28 |
| 50.00 | 9.30 | 16.03# |
| 0.00 | 0.00 | 0.00 |

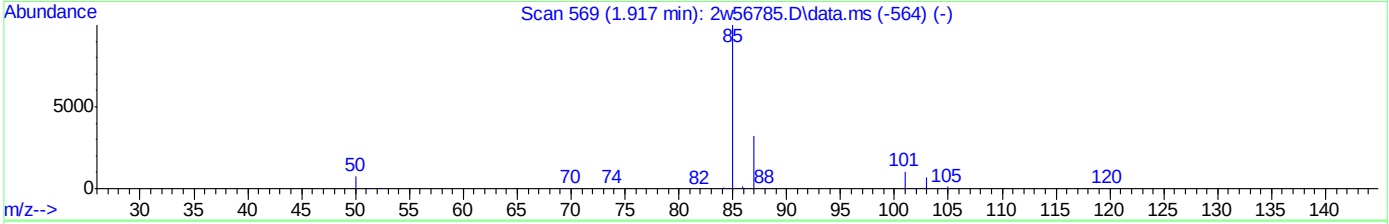
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58810.D
Acq On : 26 Apr 2022 3:42 pm
Operator : thomash
Sample : ic2620-5
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 09:14:07 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58810.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.850min (+0.006) 5.07PPBV m

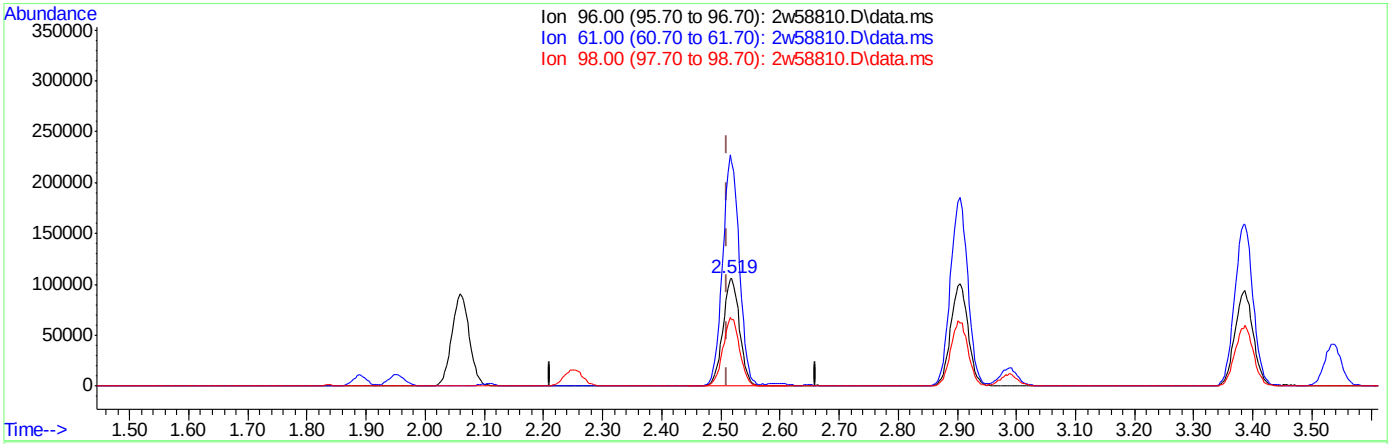
response 736704

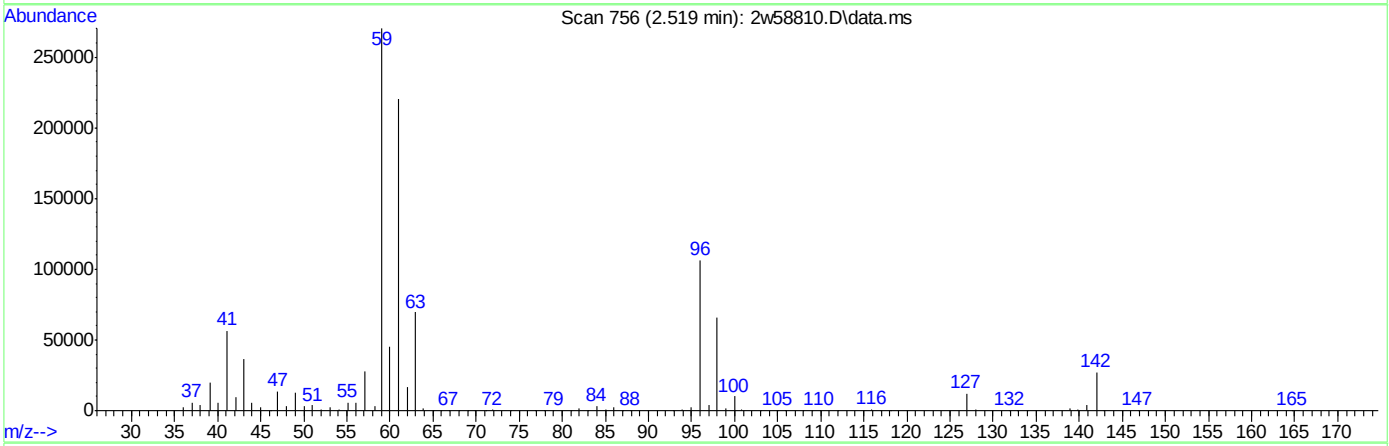
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 27.66 |
| 50.00 | 9.30 | 13.73# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58810.D
Acq On : 26 Apr 2022 3:42 pm
Operator : thomash
Sample : ic2619-5
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 09:15:25 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58810.D\data.ms

(34) TRANS-1,2-DICHLOROETHENE (T)

2.519min (+0.007) 5.12PPBV

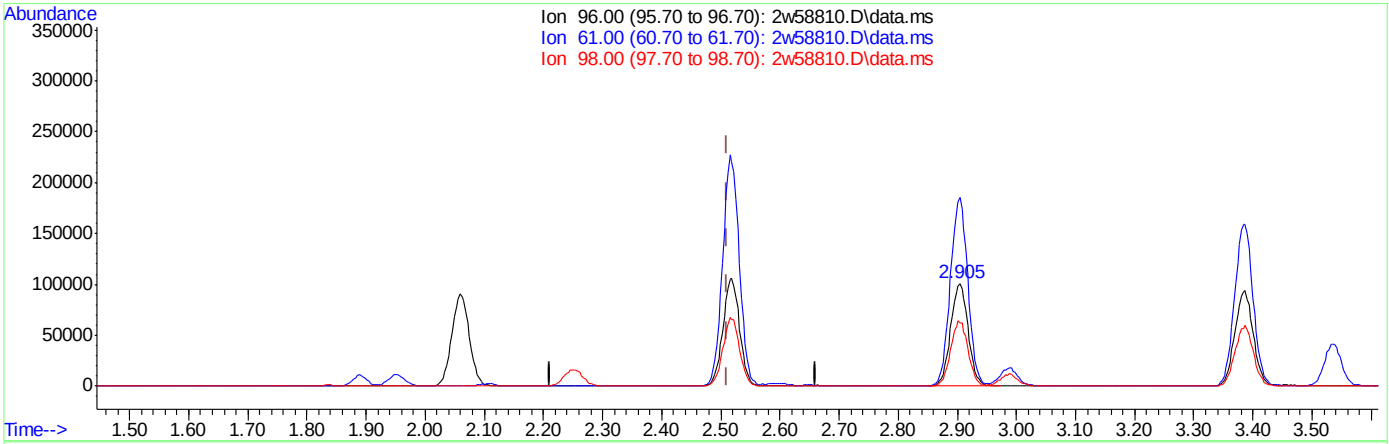
response 207997

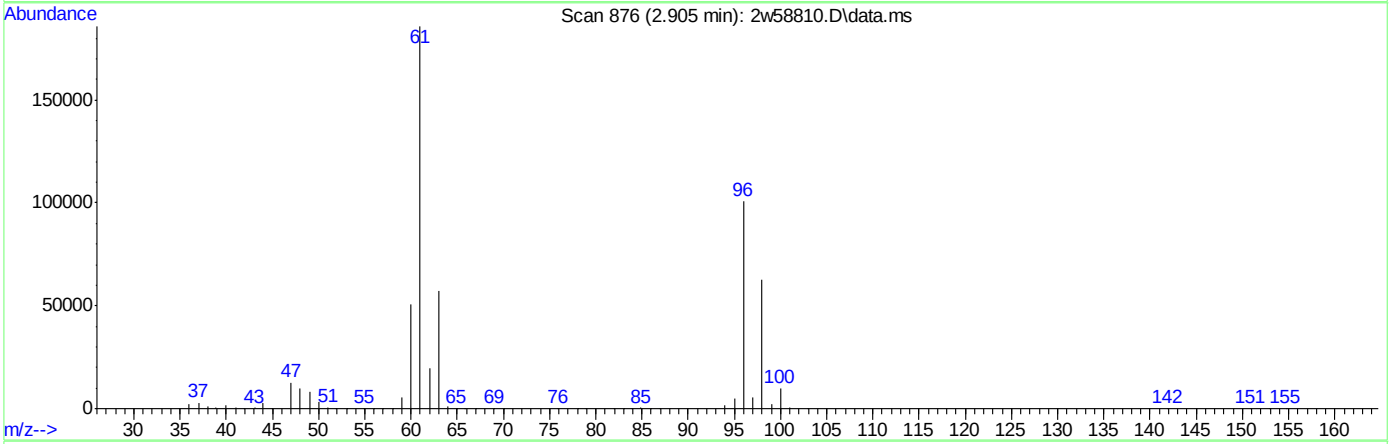
| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 130.40 | 212.97# |
| 98.00 | 63.30 | 63.60 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58810.D
Acq On : 26 Apr 2022 3:42 pm
Operator : thomash
Sample : ic2619-5
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 09:15:25 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58810.D\data.ms

(34) TRANS-1,2-DICHLOROETHENE (T)

2.905min (+0.393) 5.11PPBV m

response 207586

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 130.40 | 213.40# |
| 98.00 | 63.30 | 63.72 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 05/11/22 16:55

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58811.D
Acq On : 26 Apr 2022 4:18 pm
Operator : thomash
Sample : icc2619-10
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:45:56 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.464 | 128 | 271432 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.843 | 114 | 1739008 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.641 | 117 | 1564554 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.055 | 95 | 1168605 | 10.00 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) FREON 115 | 1.776 | 119 | 550035 | 10.00 | PPBV | # | 100 |
| 3) FREON 152A | 1.808 | 65 | 311086 | 10.00 | PPBV | # | 74 |
| 4) CHLORODIFLUOROMETHANE | 1.818 | 67 | 139639 | 10.00 | PPBV | # | 39 |
| 5) CHLOROTRIFLUOROETHENE | 1.831 | 116 | 631871 | 10.00 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.844 | 85 | 1418886m | 10.00 | PPBV | | |
| 7) PROPYLENE | 1.818 | 41 | 566895 | 10.00 | PPBV | | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.882 | 65 | 999128 | 10.00 | PPBV | # | 73 |
| 9) FREON 114 | 1.918 | 85 | 1216036 | 10.00 | PPBV | | 90 |
| 10) CHLOROMETHANE | 1.885 | 52 | 168426 | 10.00 | PPBV | # | 66 |
| 11) VINYL CHLORIDE | 1.946 | 62 | 499022 | 10.00 | PPBV | | 96 |
| 12) 1,3-BUTADIENE | 1.985 | 54 | 478095 | 10.00 | PPBV | # | 83 |
| 13) N-BUTANE | 1.998 | 43 | 910835 | 10.00 | PPBV | # | 91 |
| 14) BROMOMETHANE | 2.053 | 94 | 379475 | 10.00 | PPBV | | 100 |
| 15) CHLOROETHANE | 2.101 | 64 | 242701 | 10.00 | PPBV | # | 75 |
| 16) DICHLOROFLUOROMETHANE | 2.127 | 67 | 937245 | 10.00 | PPBV | # | 95 |
| 17) ACETONITRILE | 2.191 | 41 | 508015 | 10.00 | PPBV | | 97 |
| 18) ACROLEIN | 2.226 | 56 | 247120 | 10.00 | PPBV | | 97 |
| 19) FREON 123 | 2.239 | 83 | 952497 | 10.00 | PPBV | | 99 |
| 20) FREON 123A | 2.255 | 117 | 542023 | 10.00 | PPBV | | 88 |
| 21) TRICHLOROFLUOROMETHANE | 2.316 | 101 | 1127931 | 10.00 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.332 | 45 | 1206113 | 10.00 | PPBV | # | 96 |
| 23) ACETONE | 2.265 | 58 | 268890 | 10.00 | PPBV | # | 43 |
| 24) PENTANE | 2.426 | 42 | 649534 | 10.00 | PPBV | # | 94 |
| 25) IODOMETHANE | 2.483 | 142 | 968721 | 10.00 | PPBV | # | 81 |
| 26) 1,1-DICHLOROETHYLENE | 2.512 | 96 | 394658 | 10.00 | PPBV | # | 43 |
| 27) CARBON DISULFIDE | 2.651 | 76 | 1143329 | 10.00 | PPBV | # | 87 |
| 28) ETHANOL | 2.130 | 45 | 269109 | 10.00 | PPBV | | 97 |
| 29) BROMOETHENE | 2.197 | 106 | 387915 | 10.00 | PPBV | # | 98 |
| 30) ACRYLONITRILE | 2.400 | 52 | 429173 | 10.00 | PPBV | | 96 |
| 31) METHYLENE CHLORIDE | 2.551 | 84 | 360304 | 10.00 | PPBV | # | 23 |
| 32) 3-CHLOROPROPENE | 2.593 | 76 | 181897 | 10.00 | PPBV | # | 1 |
| 33) FREON 113 | 2.651 | 151 | 625377 | 10.00 | PPBV | | 83 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.898 | 96 | 408139m | 10.29 | PPBV | | |
| 35) TERTIARY BUTYL ALCOHOL | 2.522 | 59 | 1226864 | 10.00 | PPBV | # | 78 |
| 36) METHYL TERTIARY BUTYL ... | 3.017 | 73 | 1224364 | 10.00 | PPBV | # | 85 |
| 37) TETRAHYDROFURAN | 3.773 | 72 | 178848 | 10.00 | PPBV | # | 1 |
| 38) HEXANE | 3.519 | 57 | 912268 | 10.00 | PPBV | # | 77 |
| 39) VINYL ACETATE | 3.062 | 86 | 98610 | 10.00 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.982 | 63 | 849011 | 10.00 | PPBV | | 95 |
| 41) METHYL ETHYL KETONE | 3.165 | 72 | 190244 | 10.00 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.381 | 96 | 402763 | 10.00 | PPBV | # | 69 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58811.D
Acq On : 26 Apr 2022 4:18 pm
Operator : thomash
Sample : icc2619-10
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:45:56 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 43) DIISOPROPYL ETHER | 3.528 | 59 | 255420 | 10.00 | PPBV | # | 28 |
| 44) ETHYL ACETATE | 3.532 | 61 | 167726 | 10.00 | PPBV | # | 1 |
| 45) METHYL ACRYLATE | 3.519 | 55 | 1177219 | 10.00 | PPBV | # | 96 |
| 46) CHLOROFORM | 3.548 | 83 | 891610 | 10.00 | PPBV | # | 91 |
| 47) 2,4-DIMETHYLPENTANE | 4.075 | 57 | 1067136 | 10.00 | PPBV | # | 90 |
| 48) 1,1,1-TRICHLOROETHANE | 4.162 | 97 | 945116 | 10.00 | PPBV | | 95 |
| 49) CARBON TETRACHLORIDE | 4.615 | 117 | 1063091 | 10.00 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.988 | 62 | 685510 | 10.00 | PPBV | # | 93 |
| 51) BENZENE | 4.496 | 78 | 1371752 | 10.00 | PPBV | | 67 |
| 53) CYCLOHEXANE | 4.718 | 84 | 618833 | 10.00 | PPBV | # | 46 |
| 54) 2,3-DIMETHYLPENTANE | 4.988 | 71 | 332662 | 10.00 | PPBV | # | 11 |
| 55) TRICHLOROETHENE | 5.451 | 95 | 674603 | 10.00 | PPBV | | 93 |
| 56) 1,2-DICHLOROPROPANE | 5.210 | 63 | 668986 | 10.00 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.168 | 174 | 541676 | 10.00 | PPBV | # | 84 |
| 58) ETHYL ACRYLATE | 5.339 | 55 | 1804547 | 10.00 | PPBV | # | 96 |
| 59) BROMODICHLOROMETHANE | 5.403 | 83 | 1160313 | 10.00 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.551 | 57 | 3554170 | 10.00 | PPBV | # | 98 |
| 61) 1,4-DIOXANE | 5.470 | 88 | 336555 | 10.00 | PPBV | # | 59 |
| 62) HEPTANE | 5.882 | 43 | 1489892 | 10.00 | PPBV | # | 66 |
| 63) METHYL METHACRYLATE | 5.782 | 69 | 573122 | 10.00 | PPBV | # | 22 |
| 64) METHYL ISOBUTYL KETONE | 6.554 | 58 | 689453 | 10.00 | PPBV | # | 60 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.438 | 75 | 858801 | 10.00 | PPBV | # | 65 |
| 66) TOLUENE | 7.699 | 91 | 1887673 | 10.00 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.760 | 76 | 950557 | 10.00 | PPBV | # | 97 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.152 | 75 | 813053 | 10.00 | PPBV | # | 70 |
| 69) 1,1,2-TRICHLOROETHANE | 7.316 | 83 | 556977 | 10.00 | PPBV | | 99 |
| 70) 2-HEXANONE | 8.284 | 58 | 927140 | 10.00 | PPBV | # | 64 |
| 71) ETHYL METHACRYLATE | 8.422 | 69 | 1038771 | 10.00 | PPBV | # | 53 |
| 72) TETRACHLOROETHENE | 9.480 | 164 | 644061 | 10.00 | PPBV | | 90 |
| 73) DIBROMOCHLOROMETHANE | 8.255 | 129 | 1190201 | 10.00 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.609 | 107 | 1030937 | 10.00 | PPBV | | 99 |
| 75) OCTANE | 9.625 | 43 | 2119861 | 10.00 | PPBV | # | 69 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.734 | 131 | 829813 | 10.00 | PPBV | | 92 |
| 78) CHLOROBENZENE | 10.721 | 112 | 1545591 | 10.00 | PPBV | | 96 |
| 79) ETHYLBENZENE | 11.618 | 91 | 2534042 | 10.00 | PPBV | | 98 |
| 80) M,P-XYLENE | 12.055 | 91 | 4091678 | 20.00 | PPBV | # | 66 |
| 81) O-XYLENE | 13.001 | 91 | 2056027 | 10.00 | PPBV | | 96 |
| 82) STYRENE | 12.788 | 104 | 1496381 | 10.00 | PPBV | | 96 |
| 83) NONANE | 14.126 | 43 | 2236996 | 10.00 | PPBV | # | 72 |
| 84) BROMOFORM | 11.862 | 173 | 1071465 | 10.00 | PPBV | # | 97 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 13.020 | 83 | 1507320 | 10.00 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.303 | 75 | 1131473 | 10.00 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.534 | 120 | 771779 | 10.00 | PPBV | # | 82 |
| 89) BROMOBENZENE | 14.406 | 77 | 1386310 | 10.00 | PPBV | | 89 |
| 90) 2-CHLOROTOLUENE | 15.547 | 126 | 641686 | 10.00 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.888 | 120 | 791226 | 10.00 | PPBV | | 99 |
| 92) 4-ETHYLTOLUENE | 16.216 | 105 | 2969396 | 10.00 | PPBV | | 98 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.361 | 105 | 2487065 | 10.00 | PPBV | | 96 |
| 94) ALPHA-METHYLSTYRENE | 16.554 | 118 | 1244733 | 10.00 | PPBV | | 98 |
| 95) TERT-BUTYLBENZENE | 16.808 | 134 | 524150 | 10.00 | PPBV | | 81 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58811.D
Acq On : 26 Apr 2022 4:18 pm
Operator : thomash
Sample : icc2619-10
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:45:56 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

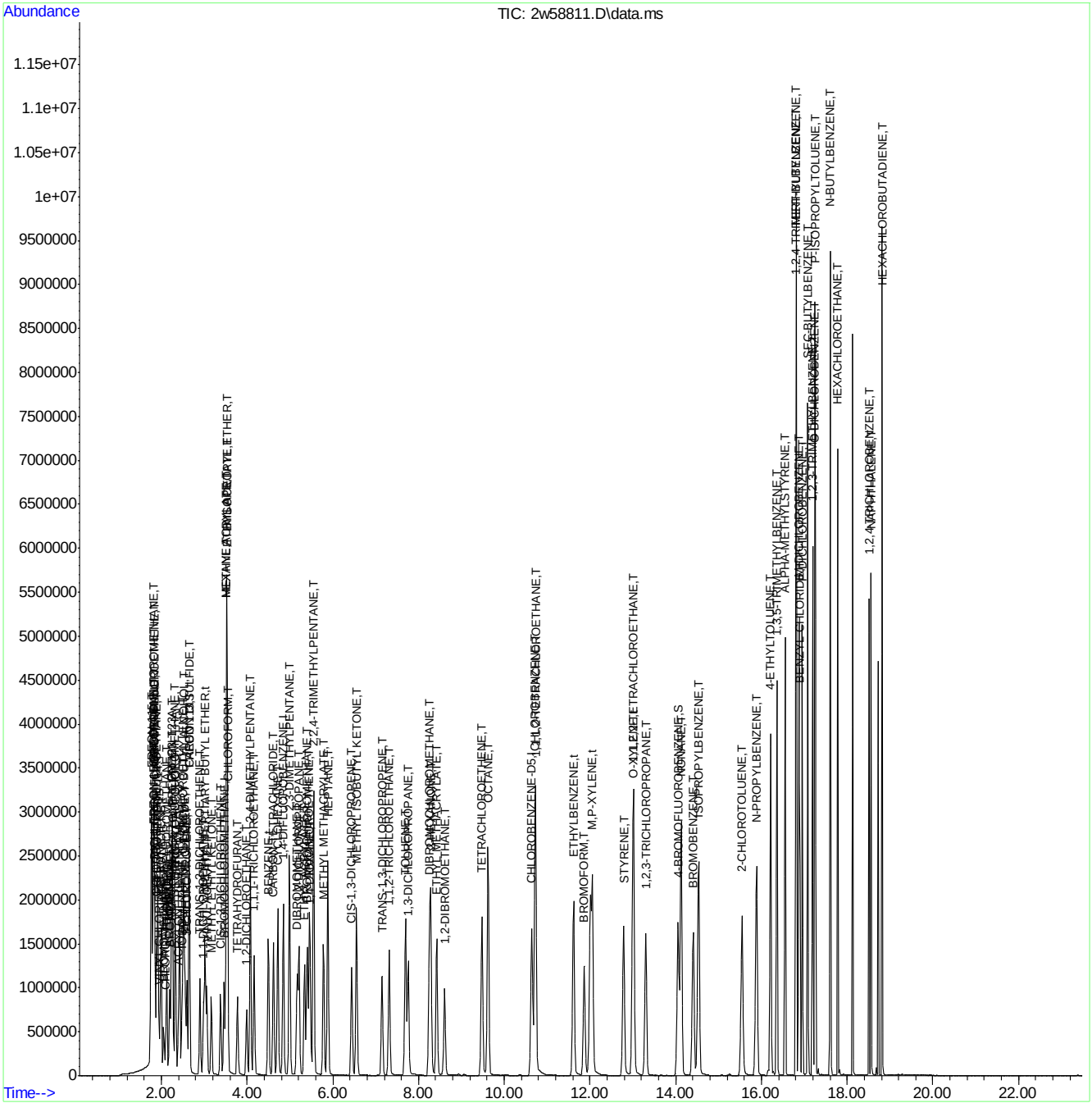
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.817 | 105 | 2469396 | 10.00 | PPBV | | 93 |
| 97) | BENZYL CHLORIDE | 16.898 | 91 | 2085630 | 10.00 | PPBV | # | 95 |
| 98) | M-DICHLOROBENZENE | 16.875 | 146 | 1378245 | 10.00 | PPBV | | 96 |
| 99) | P-DICHLOROBENZENE | 16.956 | 146 | 1355711 | 10.00 | PPBV | | 96 |
| 100) | O-DICHLOROBENZENE | 17.245 | 146 | 1286377 | 10.00 | PPBV | | 96 |
| 101) | SEC-BUTYLBENZENE | 17.081 | 134 | 639407 | 10.00 | PPBV | | 79 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.193 | 105 | 2317156 | 10.00 | PPBV | | 96 |
| 103) | P-ISOPROPYLTOLUENE | 17.258 | 134 | 670341 | 10.00 | PPBV | | 79 |
| 104) | N-BUTYLBENZENE | 17.602 | 134 | 625138 | 10.00 | PPBV | | 72 |
| 105) | HEXACHLOROETHANE | 17.779 | 117 | 994524 | 10.00 | PPBV | # | 88 |
| 106) | HEXACHLOROBUTADIENE | 18.817 | 225 | 846771 | 10.00 | PPBV | | 99 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.512 | 180 | 864554 | 10.00 | PPBV | | 97 |
| 108) | NAPHTHALENE | 18.560 | 128 | 2289286 | 10.00 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58811.D
Acq On : 26 Apr 2022 4:18 pm
Operator : thomash
Sample : icc2619-10
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:45:56 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



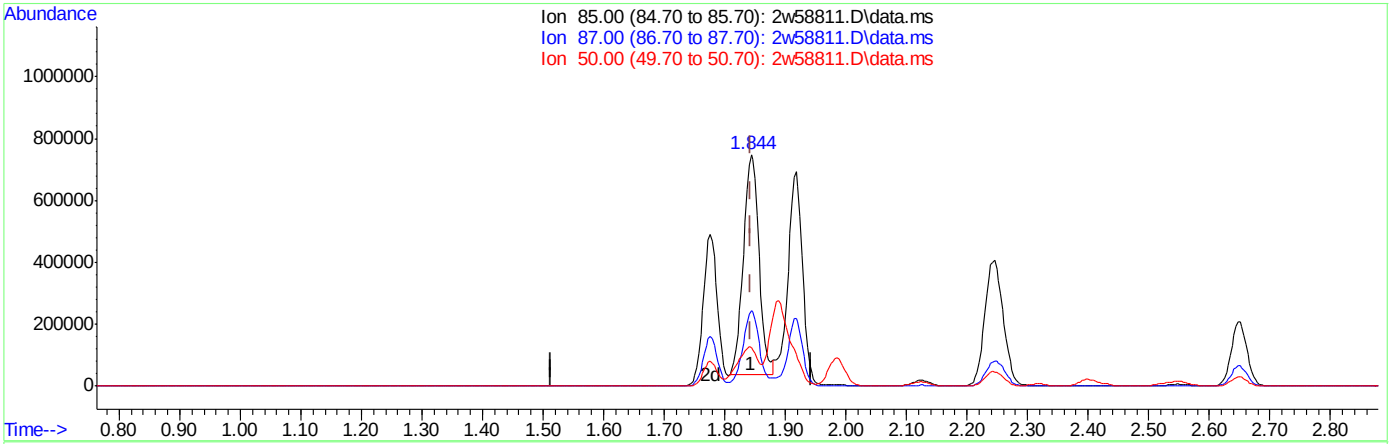
**Sample Number:** V2W2619-ICC2619 **Method:** TO-15
**Lab FileID:** 2W58811.D **Analyst approved:** 05/11/22 16:26 Thomas Hilbig
**Injection Time:** 04/26/22 16:18 **Supervisor approved:** 05/11/22 16:55 Kanya Veerawat

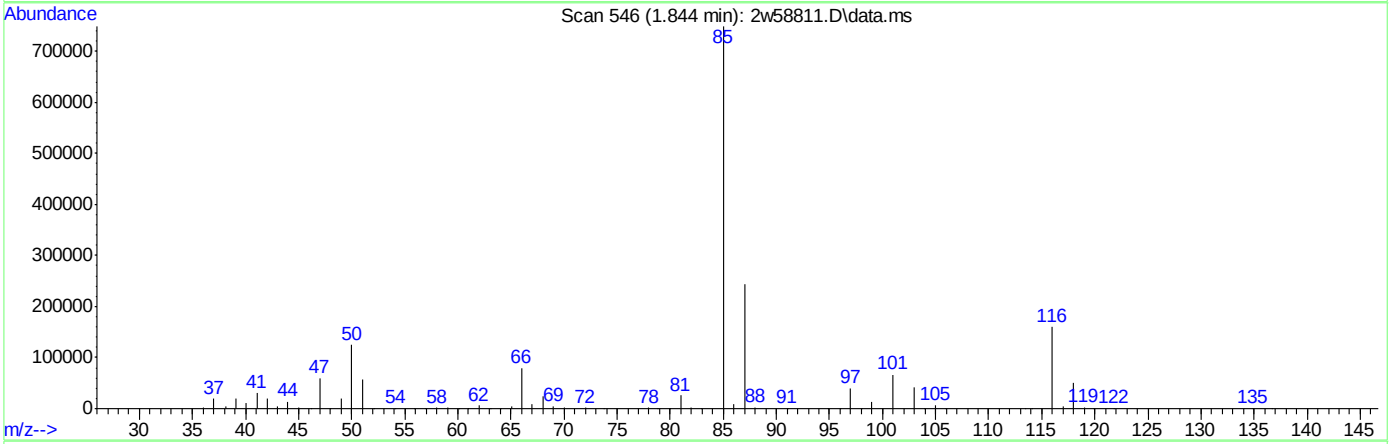
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.84 | Poorly defined baseline |
| trans-1,2-Dichloroethylene | 156-60-5 | | 2.90 | Missed peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58811.D
Acq On : 26 Apr 2022 4:18 pm
Operator : thomash
Sample : icc2620-10
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 08:53:01 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:52:55 2022
Response via : Initial Calibration




TIC: 2w58811.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.844min (0.000) 10.02PPBV

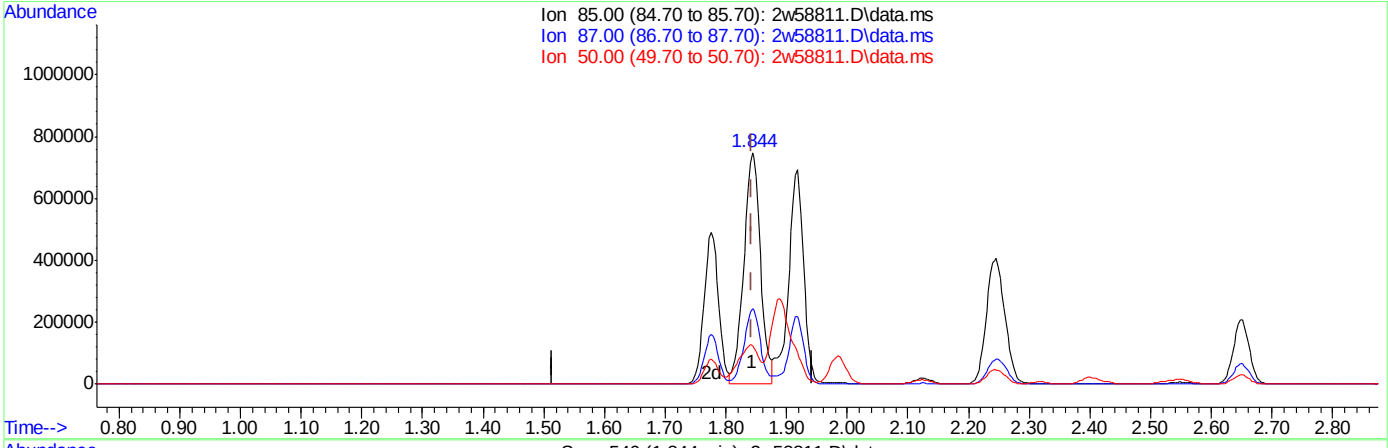
response 1271242

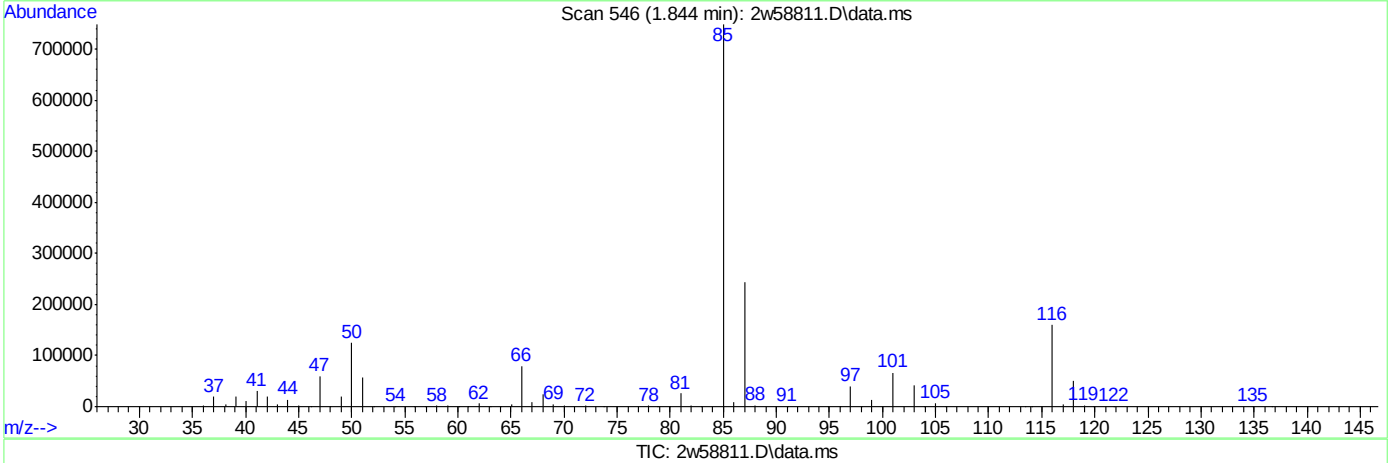
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.29 |
| 50.00 | 9.30 | 16.93# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58811.D
Acq On : 26 Apr 2022 4:18 pm
Operator : thomash
Sample : icc2620-10
Misc : MS56823,V2w2620,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 08:53:01 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:52:55 2022
Response via : Initial Calibration




TIC: 2w58811.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.844min (0.000) 11.19PPBV m

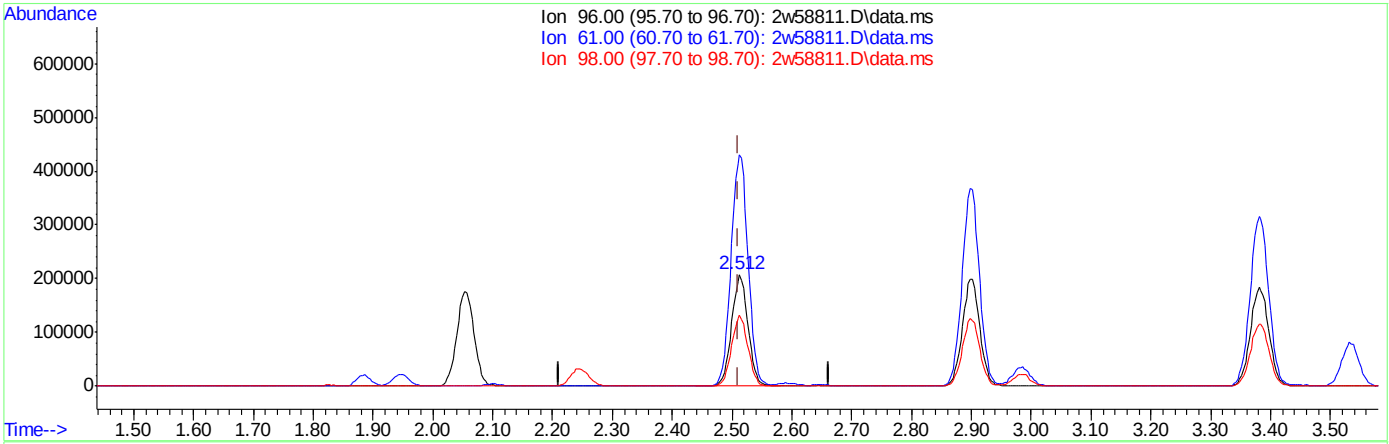
response 1418886

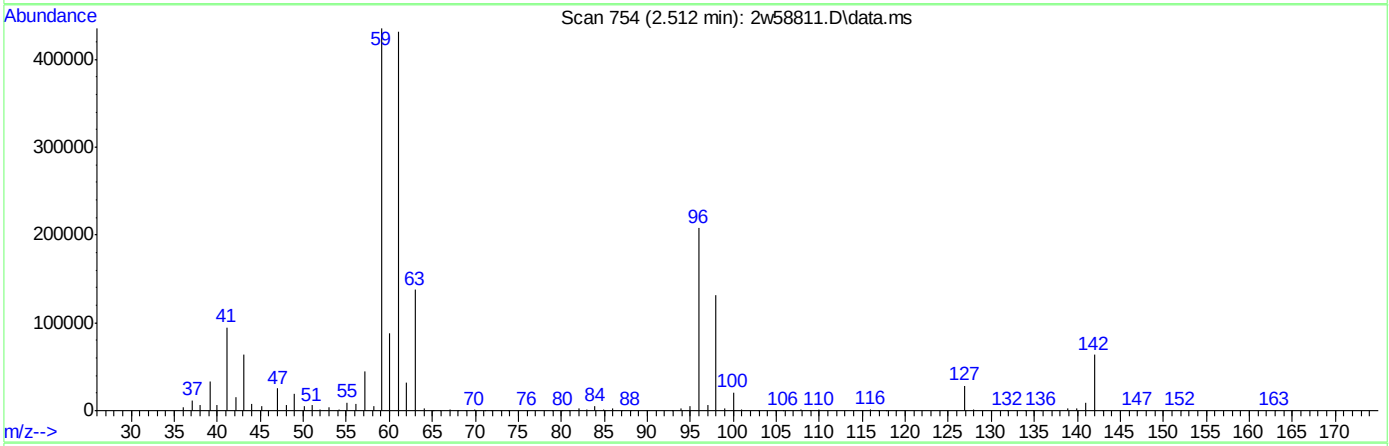
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 28.93 |
| 50.00 | 9.30 | 15.17# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58811.D
Acq On : 26 Apr 2022 4:18 pm
Operator : thomash
Sample : icc2619-10
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 08:57:39 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58811.D\data.ms

(34) TRANS-1,2-DICHLOROETHENE (T)

2.512min (+0.000) 9.95PPBV

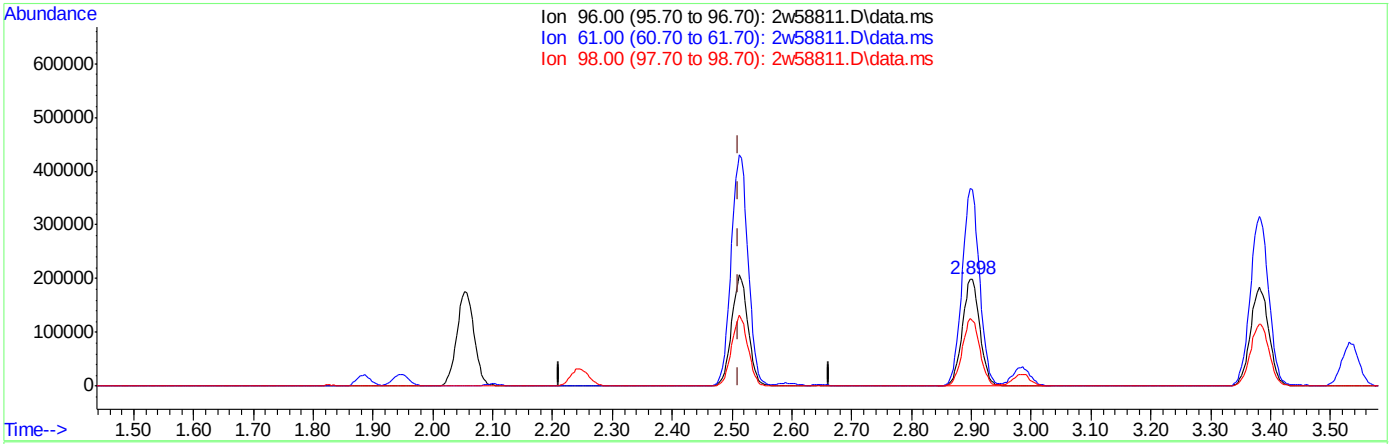
response 394658

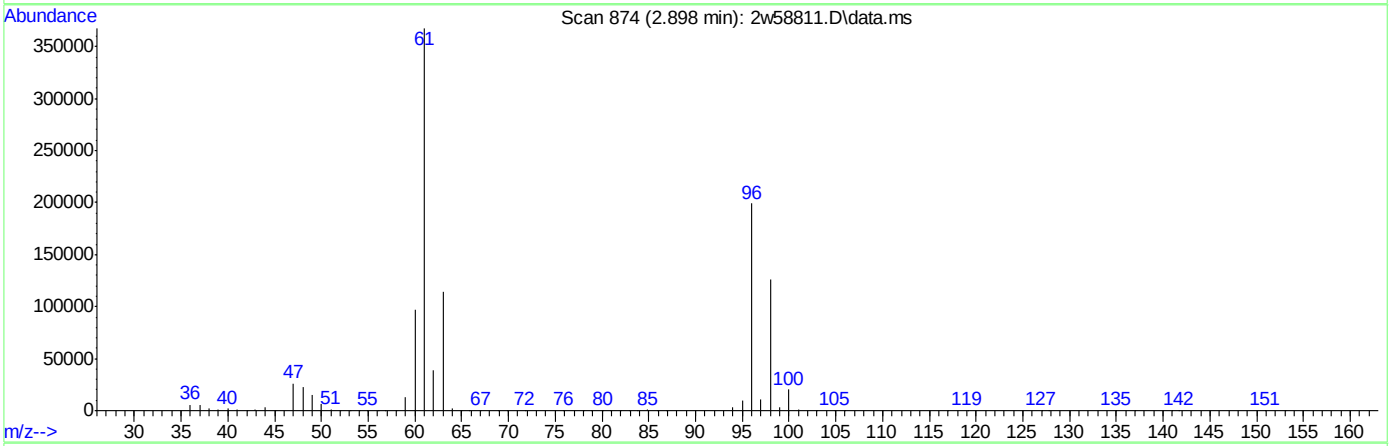
| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 130.40 | 215.33# |
| 98.00 | 63.30 | 64.08 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58811.D
Acq On : 26 Apr 2022 4:18 pm
Operator : thomash
Sample : icc2619-10
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 08:57:39 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58811.D\data.ms

(34) TRANS-1,2-DICHLOROETHENE (T)

2.898min (+0.386) 10.29PPBV m

response 408139

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 130.40 | 208.22# |
| 98.00 | 63.30 | 61.97 |
| 0.00 | 0.00 | 0.00 |

2W58812.D

Manual Integrations APPROVED (compounds with "m" flag)

Kanya Veerawat 05/11/22 16:55

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58812.D
Acq On : 26 Apr 2022 4:55 pm
Operator : thomash
Sample : ic2619-20
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:46:37 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:33:23 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.470 | 128 | 270062 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.847 | 114 | 1710406 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.644 | 117 | 1562922 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.062 | 95 | 1162928 | 10.26 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) FREON 115 | 1.786 | 119 | 787158 | 14.64 | PPBV | # | 100 |
| 3) FREON 152A | 1.815 | 65 | 602618 | 18.94 | PPBV | # | 71 |
| 4) CHLORODIFLUOROMETHANE | 1.824 | 67 | 272792 | 18.90 | PPBV | # | 39 |
| 5) CHLOROTRIFLUOROETHENE | 1.834 | 116 | 1218835 | 19.21 | PPBV | # | 99 |
| 6) DICHLORODIFLUOROMETHANE | 1.850 | 85 | 2718152m | 18.98 | PPBV | | |
| 7) PROPYLENE | 1.831 | 41 | 1072141 | 18.42 | PPBV | | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.889 | 65 | 1942887 | 19.31 | PPBV | # | 73 |
| 9) FREON 114 | 1.921 | 85 | 2278136 | 19.29 | PPBV | | 91 |
| 10) CHLOROMETHANE | 1.892 | 52 | 325118 | 16.96 | PPBV | # | 63 |
| 11) VINYL CHLORIDE | 1.950 | 62 | 955954 | 18.91 | PPBV | | 96 |
| 12) 1,3-BUTADIENE | 1.988 | 54 | 920679 | 19.02 | PPBV | # | 82 |
| 13) N-BUTANE | 2.001 | 43 | 1775073 | 17.87 | PPBV | # | 90 |
| 14) BROMOMETHANE | 2.059 | 94 | 730514 | 18.93 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.104 | 64 | 462534 | 18.81 | PPBV | # | 74 |
| 16) DICHLOROFLUOROMETHANE | 2.130 | 67 | 1809585 | 18.98 | PPBV | # | 94 |
| 17) ACETONITRILE | 2.191 | 41 | 1007117 | 19.06 | PPBV | # | 97 |
| 18) ACROLEIN | 2.229 | 56 | 480895 | 19.91 | PPBV | | 97 |
| 19) FREON 123 | 2.242 | 83 | 1833900 | 19.62 | PPBV | | 99 |
| 20) FREON 123A | 2.258 | 117 | 1027776 | 19.25 | PPBV | | 87 |
| 21) TRICHLOROFLUOROMETHANE | 2.319 | 101 | 2182906 | 19.62 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.335 | 45 | 2213889 | 17.17 | PPBV | # | 95 |
| 23) ACETONE | 2.265 | 58 | 515802 | 16.96 | PPBV | # | 42 |
| 24) PENTANE | 2.429 | 42 | 1249799 | 18.89 | PPBV | # | 95 |
| 25) IODOMETHANE | 2.490 | 142 | 1864161 | 19.65 | PPBV | # | 81 |
| 26) 1,1-DICHLOROETHYLENE | 2.516 | 96 | 751527 | 19.40 | PPBV | # | 42 |
| 27) CARBON DISULFIDE | 2.654 | 76 | 2200628 | 19.51 | PPBV | # | 87 |
| 28) ETHANOL | 2.133 | 45 | 504716 | 17.65 | PPBV | | 98 |
| 29) BROMOETHENE | 2.200 | 106 | 747884 | 19.45 | PPBV | # | 97 |
| 30) ACRYLONITRILE | 2.403 | 52 | 833936 | 18.95 | PPBV | | 97 |
| 31) METHYLENE CHLORIDE | 2.551 | 84 | 680229 | 15.94 | PPBV | # | 20 |
| 32) 3-CHLOROPROPENE | 2.599 | 76 | 347788 | 19.51 | PPBV | # | 1 |
| 33) FREON 113 | 2.651 | 151 | 1196067 | 19.71 | PPBV | | 83 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.901 | 96 | 789778m | 20.39 | PPBV | | |
| 35) TERTIARY BUTYL ALCOHOL | 2.528 | 59 | 2183485 | 20.02 | PPBV | # | 78 |
| 36) METHYL TERTIARY BUTYL ... | 3.024 | 73 | 2360719 | 20.09 | PPBV | # | 85 |
| 37) TETRAHYDROFURAN | 3.776 | 72 | 344732 | 19.68 | PPBV | # | 1 |
| 38) HEXANE | 3.525 | 57 | 1752985 | 19.30 | PPBV | # | 79 |
| 39) VINYL ACETATE | 3.065 | 86 | 189636 | 20.95 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.988 | 63 | 1661591 | 20.08 | PPBV | | 96 |
| 41) METHYL ETHYL KETONE | 3.171 | 72 | 366943 | 19.65 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.387 | 96 | 787125 | 20.05 | PPBV | # | 68 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58812.D
Acq On : 26 Apr 2022 4:55 pm
Operator : thomash
Sample : ic2619-20
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:46:37 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:33:23 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 43) DIISOPROPYL ETHER | 3.532 | 59 | 490926 | 19.40 | PPBV | # | 32 |
| 44) ETHYL ACETATE | 3.538 | 61 | 320754 | 19.54 | PPBV | # | 1 |
| 45) METHYL ACRYLATE | 3.525 | 55 | 2266092 | 19.49 | PPBV | # | 96 |
| 46) CHLOROFORM | 3.554 | 83 | 1725146 | 19.52 | PPBV | # | 91 |
| 47) 2,4-DIMETHYLPENTANE | 4.081 | 57 | 2089103 | 19.91 | PPBV | # | 90 |
| 48) 1,1,1-TRICHLOROETHANE | 4.168 | 97 | 1841414 | 20.21 | PPBV | | 94 |
| 49) CARBON TETRACHLORIDE | 4.618 | 117 | 2062105 | 21.45 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 3.991 | 62 | 1368240 | 20.08 | PPBV | # | 93 |
| 51) BENZENE | 4.499 | 78 | 2633305 | 21.48 | PPBV | | 65 |
| 53) CYCLOHEXANE | 4.721 | 84 | 1185534 | 19.87 | PPBV | # | 45 |
| 54) 2,3-DIMETHYLPENTANE | 4.995 | 71 | 627022 | 19.28 | PPBV | # | 5 |
| 55) TRICHLOROETHENE | 5.461 | 95 | 1285337 | 20.04 | PPBV | | 93 |
| 56) 1,2-DICHLOROPROPANE | 5.216 | 63 | 1300756 | 19.24 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.171 | 174 | 1056719 | 18.63 | PPBV | # | 85 |
| 58) ETHYL ACRYLATE | 5.348 | 55 | 3521728 | 20.56 | PPBV | # | 96 |
| 59) BROMODICHLOROMETHANE | 5.409 | 83 | 2249425 | 20.46 | PPBV | | 94 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.557 | 57 | 6827064 | 19.61 | PPBV | # | 98 |
| 61) 1,4-DIOXANE | 5.480 | 88 | 630182 | 19.52 | PPBV | # | 58 |
| 62) HEPTANE | 5.888 | 43 | 2888209 | 19.98 | PPBV | # | 65 |
| 63) METHYL METHACRYLATE | 5.789 | 69 | 1107740 | 19.93 | PPBV | # | 19 |
| 64) METHYL ISOBUTYL KETONE | 6.564 | 58 | 1365500 | 20.75 | PPBV | # | 59 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.448 | 75 | 1694380 | 20.38 | PPBV | # | 64 |
| 66) TOLUENE | 7.705 | 91 | 3704922 | 20.63 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.769 | 76 | 1829404 | 20.76 | PPBV | # | 97 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.155 | 75 | 1622302 | 20.94 | PPBV | # | 69 |
| 69) 1,1,2-TRICHLOROETHANE | 7.326 | 83 | 1104502 | 21.13 | PPBV | | 100 |
| 70) 2-HEXANONE | 8.300 | 58 | 1827336 | 21.60 | PPBV | # | 62 |
| 71) ETHYL METHACRYLATE | 8.435 | 69 | 2015965 | 21.52 | PPBV | # | 50 |
| 72) TETRACHLOROETHENE | 9.490 | 164 | 1278817 | 20.87 | PPBV | | 90 |
| 73) DIBROMOCHLOROMETHANE | 8.265 | 129 | 2413355m | 21.88 | PPBV | | |
| 74) 1,2-DIBROMOETHANE | 8.625 | 107 | 2005543 | 21.15 | PPBV | | 99 |
| 75) OCTANE | 9.634 | 43 | 4180763 | 20.94 | PPBV | # | 68 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.747 | 131 | 1605122 | 20.73 | PPBV | | 91 |
| 78) CHLOROBENZENE | 10.734 | 112 | 2980211 | 20.47 | PPBV | | 96 |
| 79) ETHYLBENZENE | 11.628 | 91 | 5082064 | 21.27 | PPBV | | 98 |
| 80) M,P-XYLENE | 12.068 | 91 | 7869881 | 43.21 | PPBV | # | 68 |
| 81) O-XYLENE | 13.014 | 91 | 3964956 | 21.52 | PPBV | | 96 |
| 82) STYRENE | 12.795 | 104 | 2963044 | 22.09 | PPBV | | 96 |
| 83) NONANE | 14.139 | 43 | 4386176 | 20.76 | PPBV | # | 71 |
| 84) BROMOFORM | 11.879 | 173 | 2148000 | 23.15 | PPBV | # | 97 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 13.036 | 83 | 2906956 | 22.37 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.322 | 75 | 2174141 | 21.85 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.550 | 120 | 1470324 | 21.26 | PPBV | # | 78 |
| 89) BROMOBENZENE | 14.425 | 77 | 2667082 | 21.13 | PPBV | # | 17 |
| 90) 2-CHLOROTOLUENE | 15.560 | 126 | 1286010 | 21.79 | PPBV | | 98 |
| 91) N-PROPYLBENZENE | 15.898 | 120 | 1534277 | 22.43 | PPBV | | 99 |
| 92) 4-ETHYLTOLUENE | 16.226 | 105 | 5752677 | 22.59 | PPBV | | 98 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.370 | 105 | 4776337 | 22.44 | PPBV | | 96 |
| 94) ALPHA-METHYLSTYRENE | 16.560 | 118 | 2385406 | 22.85 | PPBV | | 97 |
| 95) TERT-BUTYLBENZENE | 16.811 | 134 | 984939 | 21.17 | PPBV | | 77 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58812.D
Acq On : 26 Apr 2022 4:55 pm
Operator : thomash
Sample : ic2619-20
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:46:37 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:33:23 2022
Response via : Initial Calibration

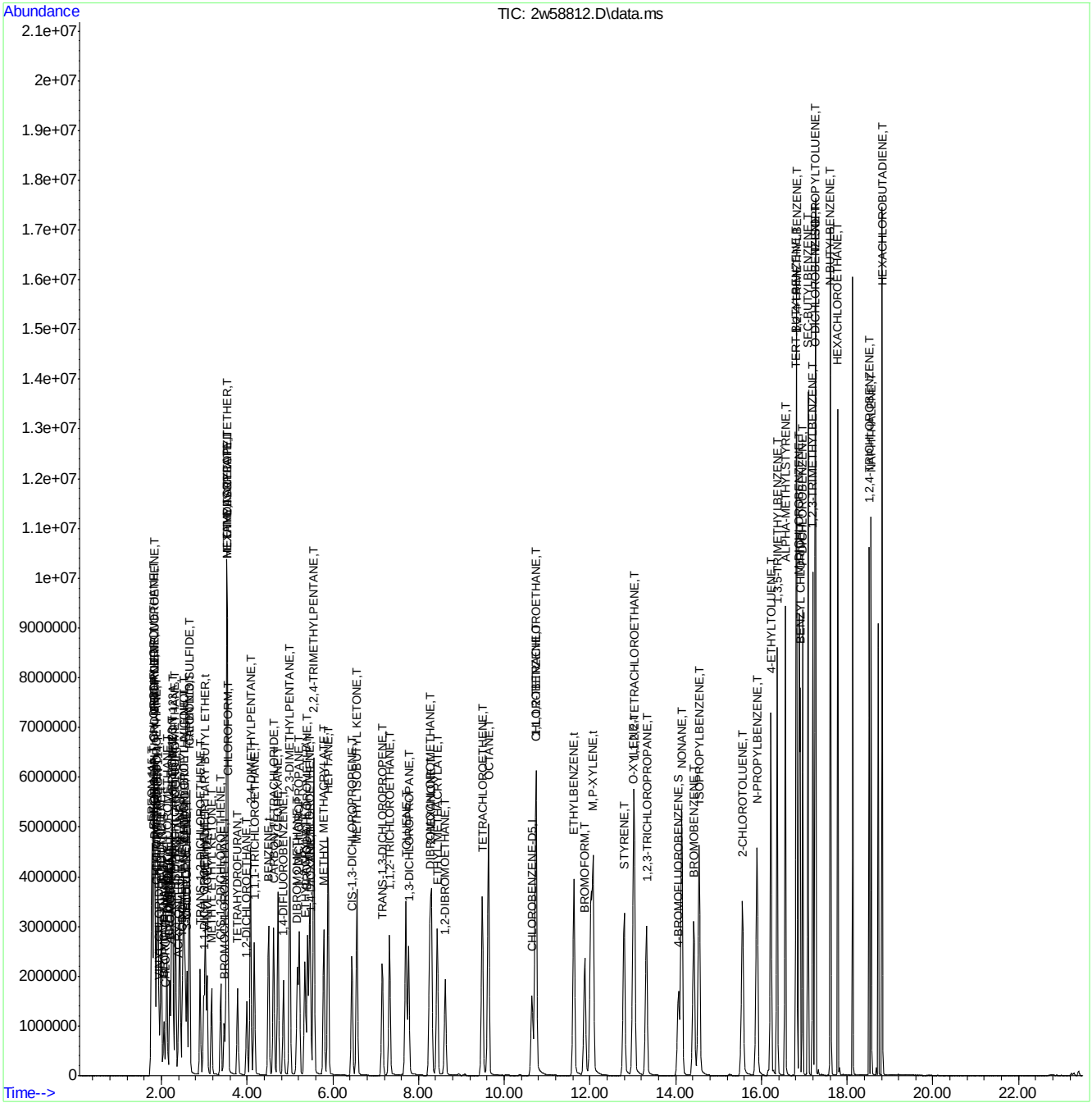
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 96) 1,2,4-TRIMETHYLBENZENE | 16.827 | 105 | 4659043 | 22.55 | PPBV | | 94 |
| 97) BENZYL CHLORIDE | 16.904 | 91 | 4022918 | 24.55 | PPBV | # | 95 |
| 98) M-DICHLOROBENZENE | 16.882 | 146 | 2595606 | 22.64 | PPBV | | 96 |
| 99) P-DICHLOROBENZENE | 16.962 | 146 | 2535140 | 22.43 | PPBV | | 97 |
| 100) O-DICHLOROBENZENE | 17.251 | 146 | 2382612 | 22.27 | PPBV | | 96 |
| 101) SEC-BUTYLBENZENE | 17.087 | 134 | 1184467 | 21.21 | PPBV | | 75 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.200 | 105 | 4366324 | 21.97 | PPBV | | 95 |
| 103) P-ISOPROPYLTOLUENE | 17.264 | 134 | 1219814 | 20.89 | PPBV | | 75 |
| 104) N-BUTYLBENZENE | 17.605 | 134 | 1174685 | 22.14 | PPBV | # | 67 |
| 105) HEXACHLOROETHANE | 17.782 | 117 | 1857481 | 22.74 | PPBV | # | 89 |
| 106) HEXACHLOROBUTADIENE | 18.820 | 225 | 1665829 | 23.68 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.515 | 180 | 1768329 | 23.51 | PPBV | | 97 |
| 108) NAPHTHALENE | 18.563 | 128 | 4532279 | 25.81 | PPBV | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58812.D
Acq On : 26 Apr 2022 4:55 pm
Operator : thomash
Sample : ic2619-20
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:46:37 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:33:23 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



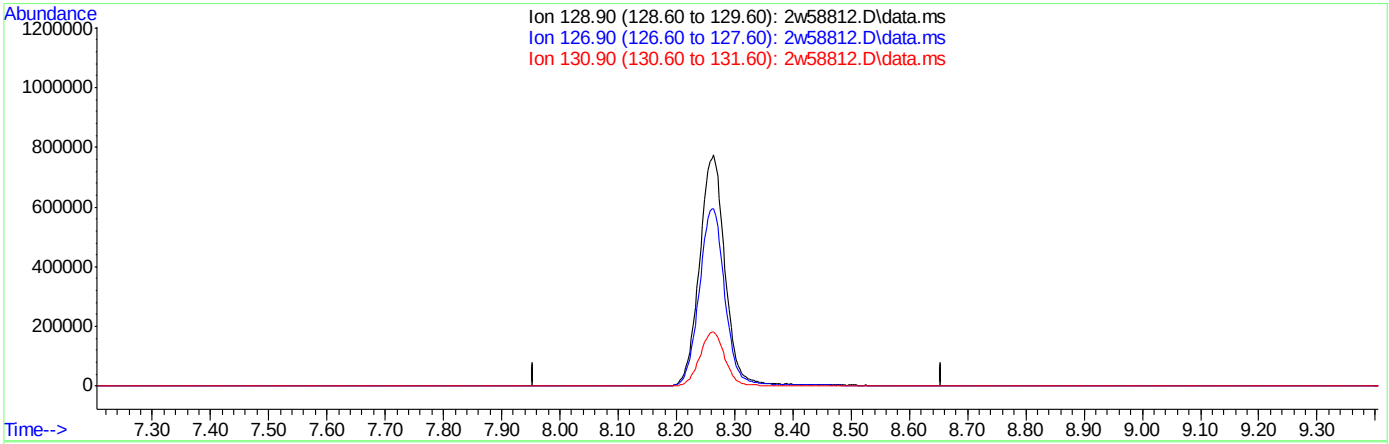
**Sample Number:** V2W2619-IC2619
**Lab FileID:** 2W58812.D
**Injection Time:** 04/26/22 16:55
**Method:** TO-15
**Analyst approved:** 05/11/22 16:26 Thomas Hilbig
**Supervisor approved:** 05/11/22 16:55 Kanya Veerawat

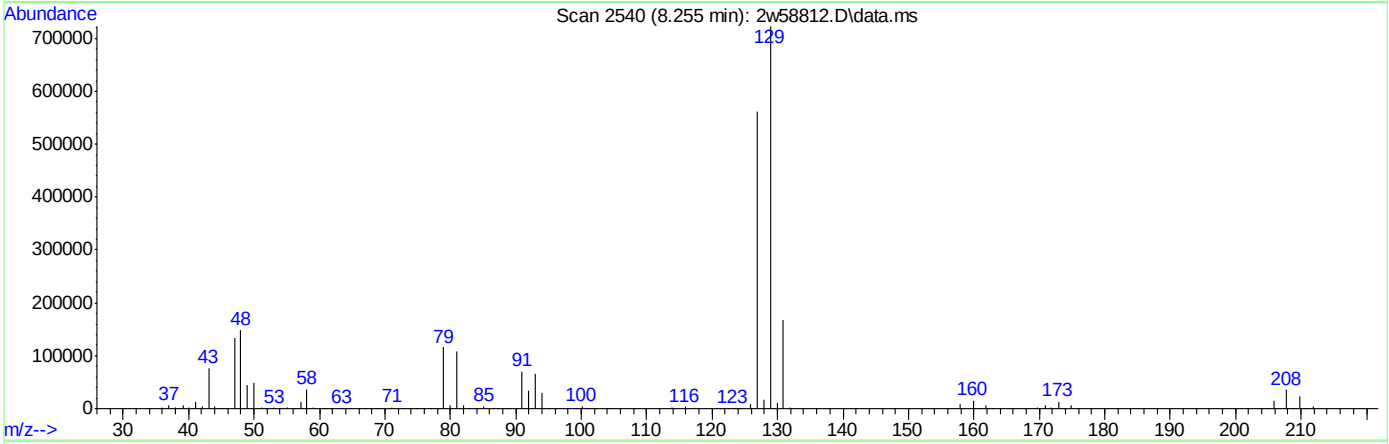
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.85 | Poorly defined baseline |
| trans-1,2-Dichloroethylene | 156-60-5 | | 2.90 | Missed peak |
| Dibromochloromethane | 124-48-1 | | 8.26 | Missed peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58812.D
Acq On : 26 Apr 2022 4:55 pm
Operator : thomash
Sample : ic2619-20
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 09:44:11 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:33:23 2022
Response via : Initial Calibration




TIC: 2w58812.D\data.ms

(73) DIBROMOCHLOROMETHANE (T)

8.255min (-8.255) 0.00PPBV

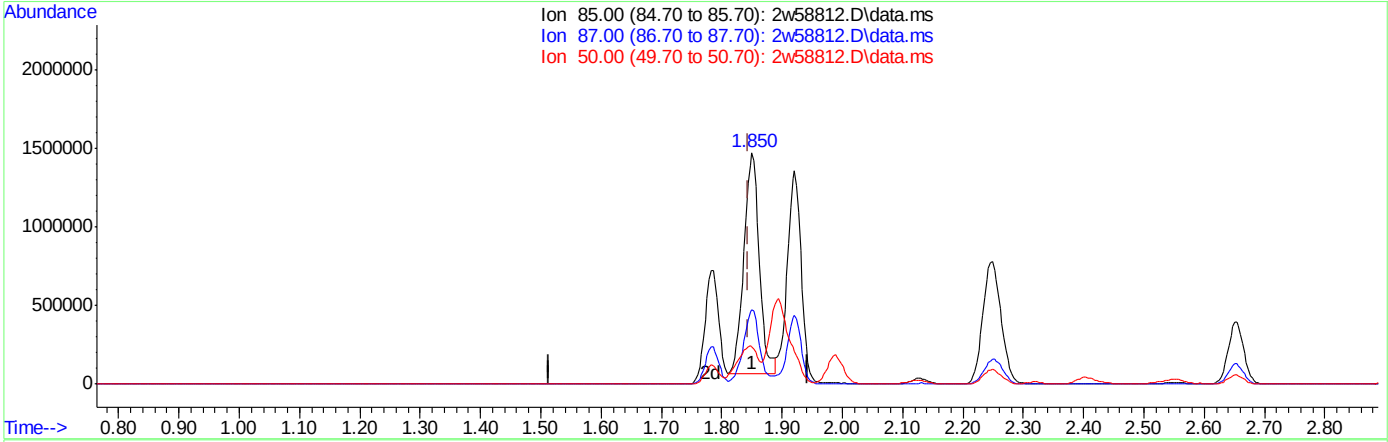
response 0

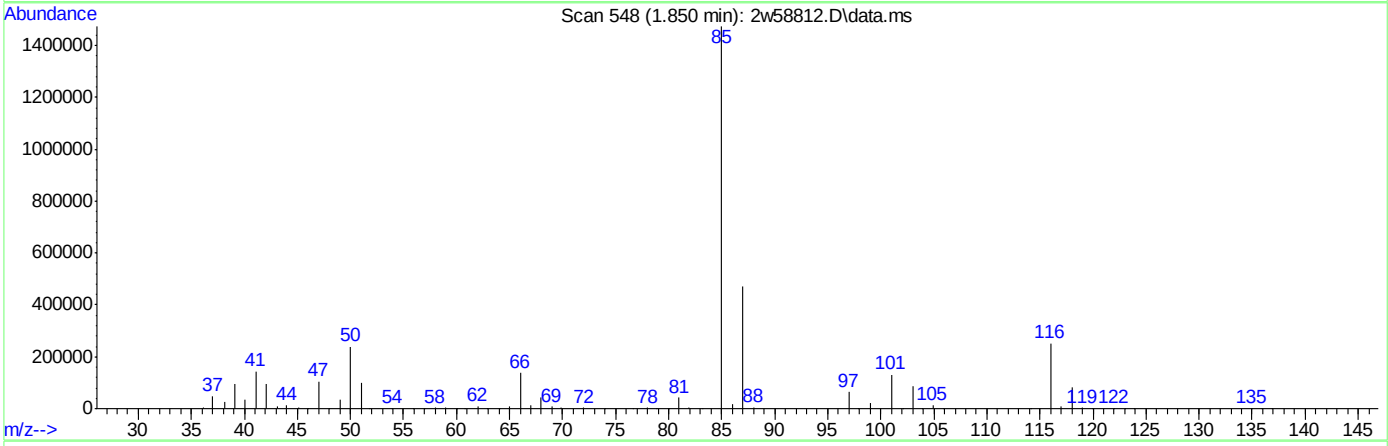
| Ion | Exp% | Act% |
|---|---|---|
| 128.90 | 100 | 0.00 |
| 126.90 | 76.70 | 0.00# |
| 130.90 | 24.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58812.D
Acq On : 26 Apr 2022 4:55 pm
Operator : thomash
Sample : ic2619-20
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 09:44:11 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:33:23 2022
Response via : Initial Calibration




TIC: 2w58812.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.850min (+0.006) 17.60PPBV

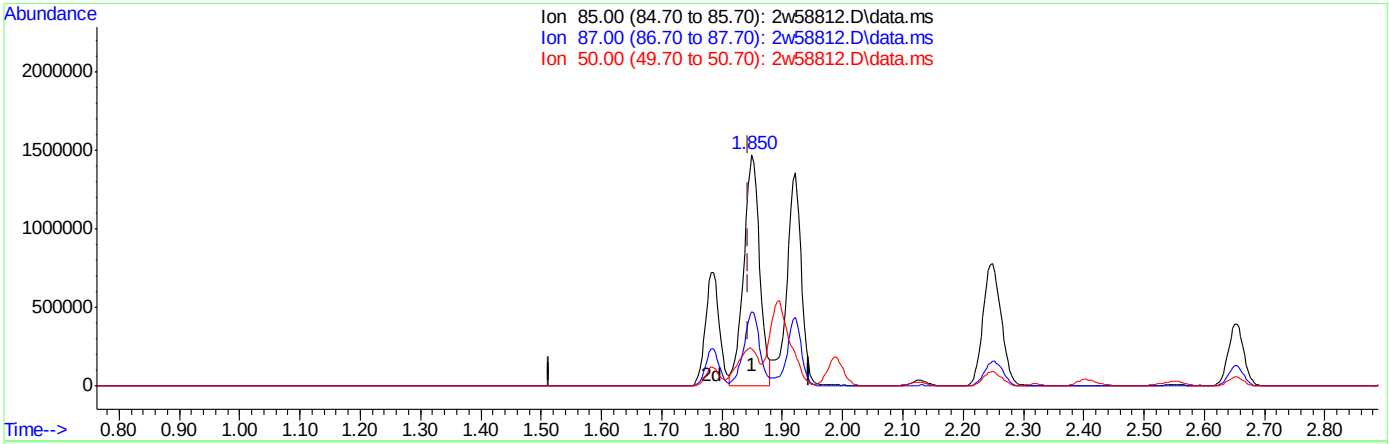
response 2520970

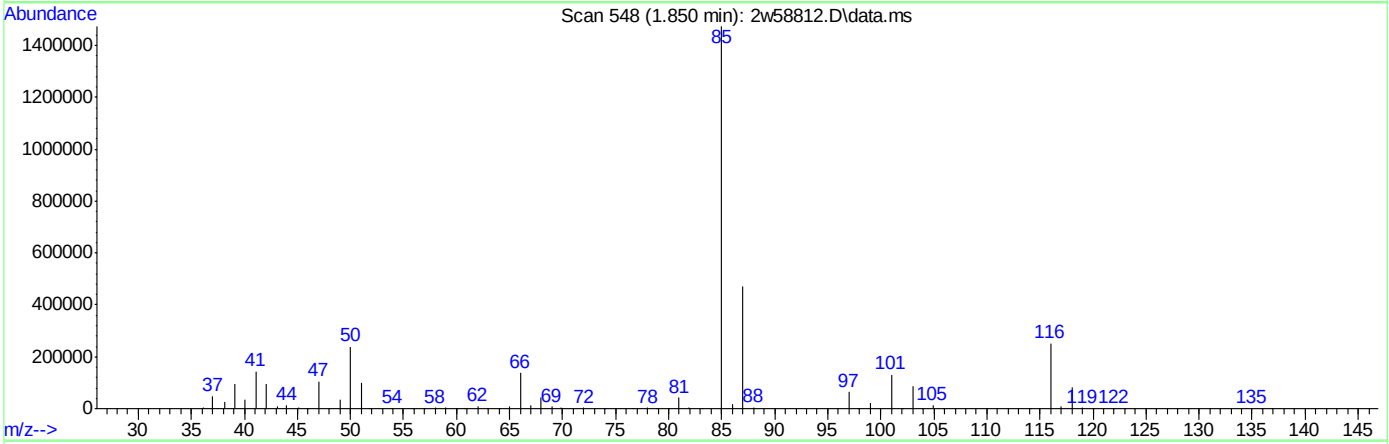
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.02 |
| 50.00 | 9.30 | 16.85# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58812.D
Acq On : 26 Apr 2022 4:55 pm
Operator : thomash
Sample : ic2619-20
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 09:44:11 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:33:23 2022
Response via : Initial Calibration




TIC: 2w58812.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.850min (+0.006) 18.98PPBV m

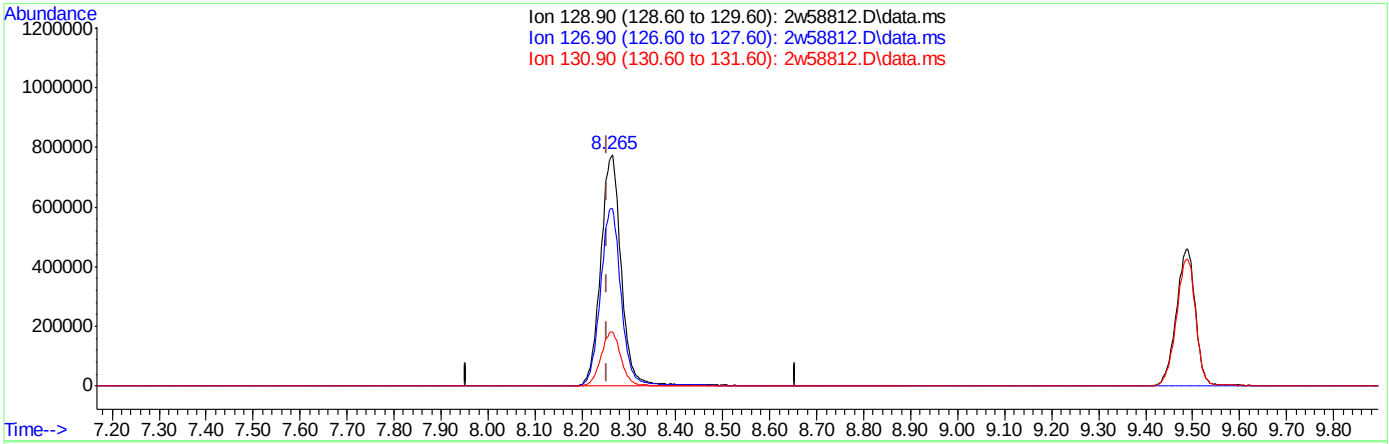
response 2718152

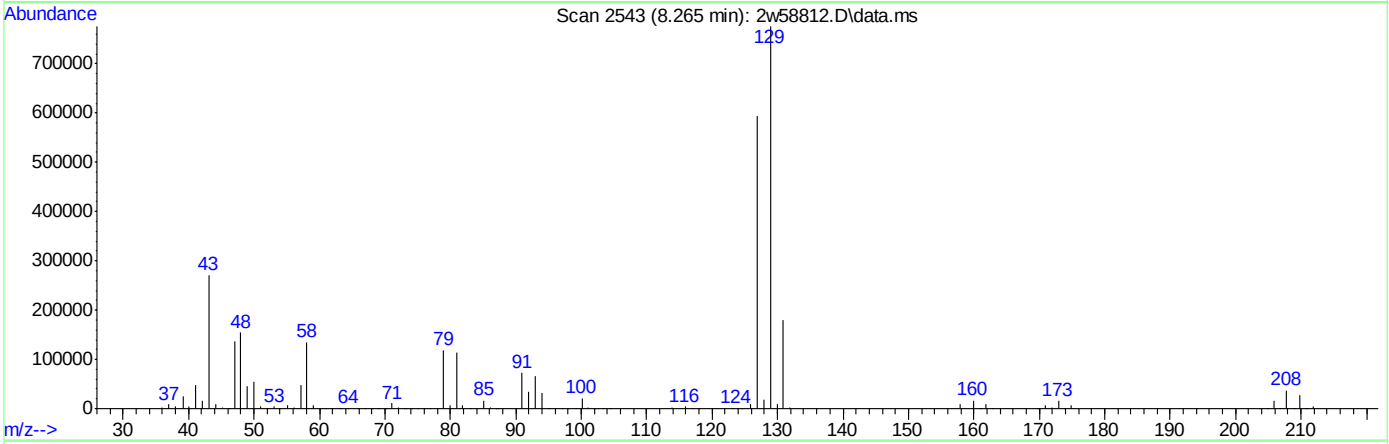
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 29.70 |
| 50.00 | 9.30 | 15.63# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58812.D
Acq On : 26 Apr 2022 4:55 pm
Operator : thomash
Sample : ic2619-20
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 09:45:51 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:33:23 2022
Response via : Initial Calibration




TIC: 2w58812.D\data.ms

(73) DIBROMOCHLOROMETHANE (T)

8.265min (+0.009) 21.88PPBV m

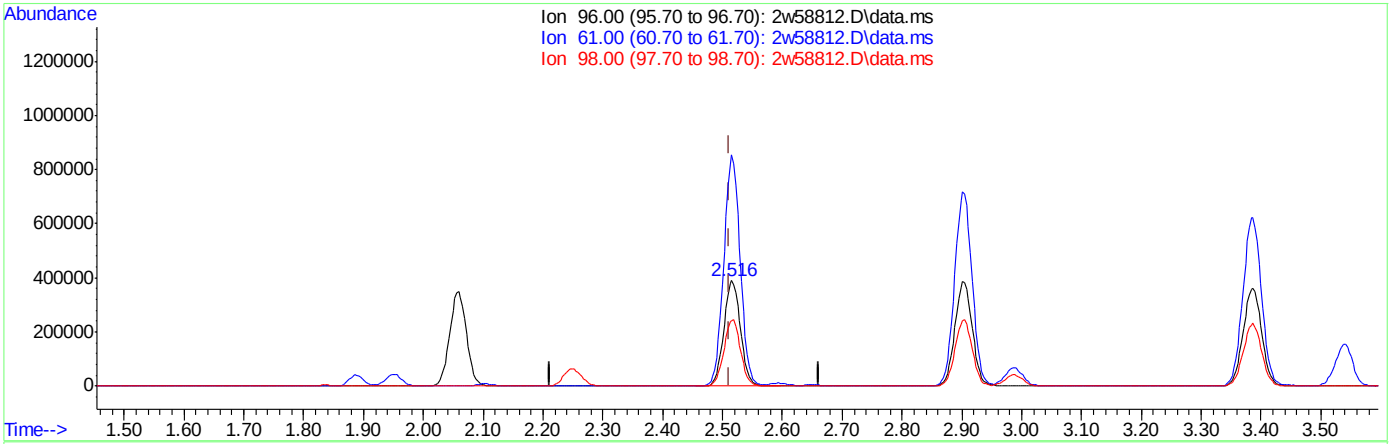
response 2413355

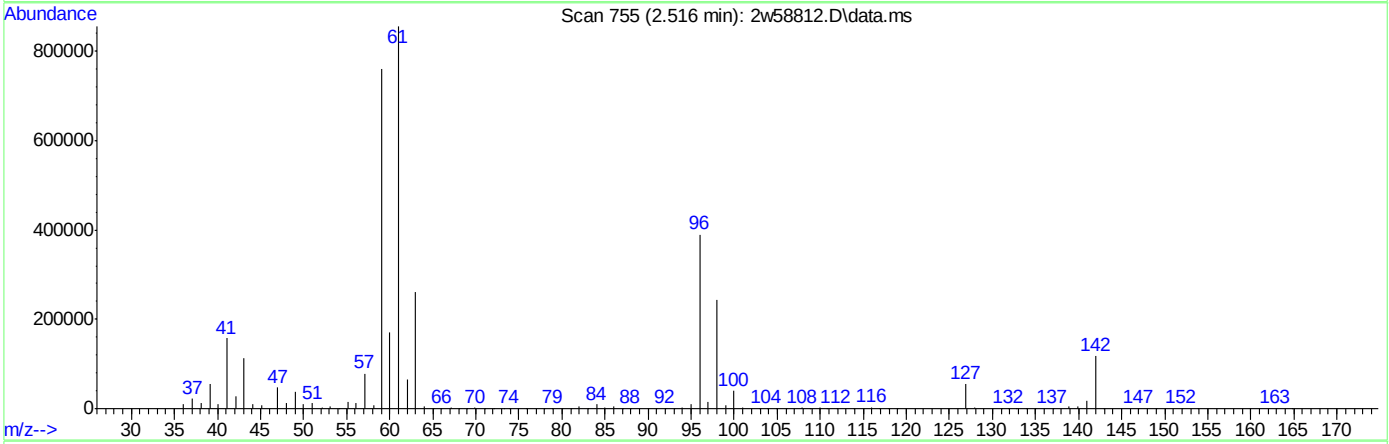
| Ion | Exp% | Act% |
|---|---|---|
| 128.90 | 100 | 100 |
| 126.90 | 76.70 | 0.00# |
| 130.90 | 24.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58812.D
Acq On : 26 Apr 2022 4:55 pm
Operator : thomash
Sample : ic2619-20
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 09:45:51 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:33:23 2022
Response via : Initial Calibration




TIC: 2w58812.D\data.ms

(34) TRANS-1,2-DICHLOROETHENE (T)

2.516min (+0.004) 19.40PPBV

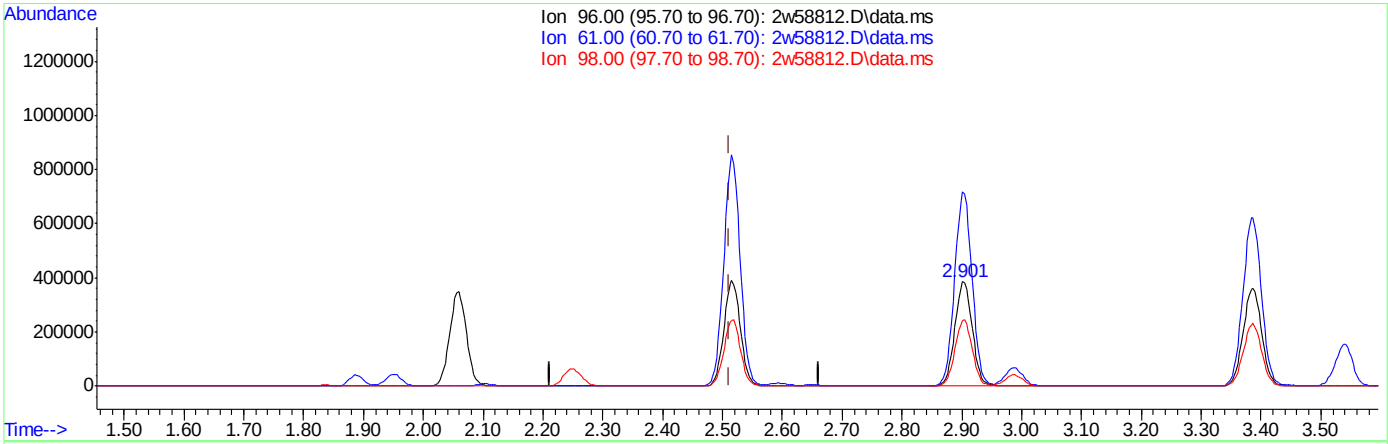
response 751527

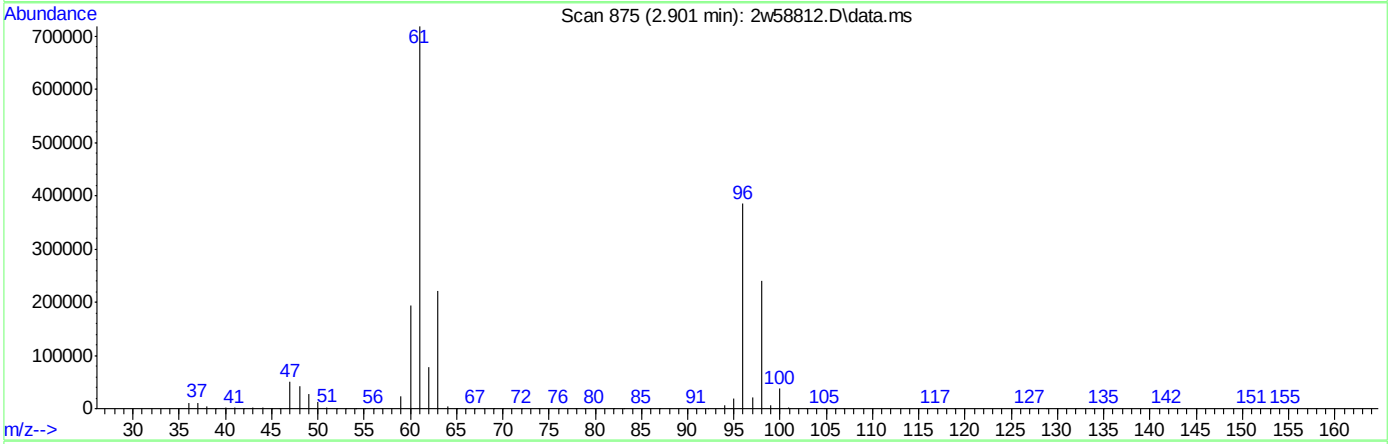
| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 130.40 | 216.66# |
| 98.00 | 63.30 | 63.57 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58812.D
Acq On : 26 Apr 2022 4:55 pm
Operator : thomash
Sample : ic2619-20
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 09:45:51 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:33:23 2022
Response via : Initial Calibration




TIC: 2w58812.D\data.ms

(34) TRANS-1,2-DICHLOROETHENE (T)

2.901min (+0.389) 20.39PPBV m

response 789778

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 130.40 | 206.17# |
| 98.00 | 63.30 | 60.49 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 05/11/22 16:55

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58813.D
Acq On : 26 Apr 2022 5:37 pm
Operator : thomash
Sample : ic2619-40
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:47:23 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.470 | 128 | 255124 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.850 | 114 | 1582387 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.650 | 117 | 1482477 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.071 | 95 | 1105739 | 9.99 | PPBV | | 0.02 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.815 | 65 | 1190727 | 40.72 | PPBV | # | 62 |
| 4) CHLORODIFLUOROMETHANE | 1.824 | 67 | 539510 | 41.11 | PPBV | | 96 |
| 5) CHLOROTRIFLUOROETHENE | 1.834 | 116 | 2379588 | 40.07 | PPBV | # | 99 |
| 6) DICHLORODIFLUOROMETHANE | 1.850 | 85 | 5249207 | 39.36 | PPBV | # | 93 |
| 7) PROPYLENE | 1.831 | 41 | 2078067 | 39.00 | PPBV | | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.889 | 65 | 3875967 | 41.27 | PPBV | # | 74 |
| 9) FREON 114 | 1.921 | 85 | 4466274 | 39.08 | PPBV | | 91 |
| 10) CHLOROMETHANE | 1.892 | 52 | 641789 | 40.54 | PPBV | # | 65 |
| 11) VINYL CHLORIDE | 1.950 | 62 | 1866309 | 39.79 | PPBV | | 96 |
| 12) 1,3-BUTADIENE | 1.988 | 54 | 1818337 | 40.46 | PPBV | # | 82 |
| 13) N-BUTANE | 2.001 | 43 | 3483519 | 40.69 | PPBV | # | 90 |
| 14) BROMOMETHANE | 2.059 | 94 | 1426707 | 40.00 | PPBV | | 100 |
| 15) CHLOROETHANE | 2.104 | 64 | 909239 | 39.86 | PPBV | # | 75 |
| 16) DICHLOROFLUOROMETHANE | 2.130 | 67 | 3546617 | 40.26 | PPBV | # | 94 |
| 17) ACETONITRILE | 2.194 | 41 | 1967626 | 41.21 | PPBV | | 97 |
| 18) ACROLEIN | 2.229 | 56 | 930851 | 40.08 | PPBV | | 97 |
| 19) FREON 123 | 2.245 | 83 | 3542442 | 39.57 | PPBV | | 99 |
| 20) FREON 123A | 2.262 | 117 | 1971371 | 38.70 | PPBV | | 89 |
| 21) TRICHLOROFLUOROMETHANE | 2.319 | 101 | 4236583 | 39.96 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.339 | 45 | 4195337 | 37.01 | PPBV | # | 96 |
| 23) ACETONE | 2.268 | 58 | 968530 | 38.32 | PPBV | # | 39 |
| 24) PENTANE | 2.429 | 42 | 2416855 | 39.59 | PPBV | # | 95 |
| 25) IODOMETHANE | 2.487 | 142 | 3632594 | 39.90 | PPBV | # | 82 |
| 26) 1,1-DICHLOROETHYLENE | 2.516 | 96 | 1433988 | 38.66 | PPBV | # | 41 |
| 27) CARBON DISULFIDE | 2.654 | 76 | 4280922 | 39.84 | PPBV | # | 88 |
| 28) ETHANOL | 2.133 | 45 | 974504 | 38.53 | PPBV | | 98 |
| 29) BROMOETHENE | 2.200 | 106 | 1453102 | 39.85 | PPBV | # | 97 |
| 30) ACRYLONITRILE | 2.403 | 52 | 1646559 | 40.82 | PPBV | | 96 |
| 31) METHYLENE CHLORIDE | 2.554 | 84 | 1288810 | 38.06 | PPBV | # | 17 |
| 32) 3-CHLOROPROPENE | 2.599 | 76 | 667495 | 39.04 | PPBV | # | 1 |
| 33) FREON 113 | 2.654 | 151 | 2290046 | 38.96 | PPBV | | 82 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.905 | 96 | 1524728m | 40.89 | PPBV | | |
| 35) TERTIARY BUTYL ALCOHOL | 2.532 | 59 | 3989221 | 34.59 | PPBV | # | 77 |
| 36) METHYL TERTIARY BUTYL ... | 3.024 | 73 | 4558332 | 39.61 | PPBV | # | 85 |
| 37) TETRAHYDROFURAN | 3.779 | 72 | 668297 | 39.76 | PPBV | # | 1 |
| 38) HEXANE | 3.525 | 57 | 3352864 | 39.10 | PPBV | # | 80 |
| 39) VINYL ACETATE | 3.069 | 86 | 372203 | 40.16 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.988 | 63 | 3230737 | 40.49 | PPBV | | 96 |
| 41) METHYL ETHYL KETONE | 3.175 | 72 | 710566 | 39.74 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.387 | 96 | 1536267 | 40.58 | PPBV | # | 67 |
| 43) DIISOPROPYL ETHER | 3.541 | 59 | 934614 | 38.93 | PPBV | # | 41 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58813.D
Acq On : 26 Apr 2022 5:37 pm
Operator : thomash
Sample : ic2619-40
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:47:23 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.548 | 61 | 621944 | 39.45 | PPBV | # | 9 |
| 45) METHYL ACRYLATE | 3.532 | 55 | 4364834 | 39.45 | PPBV | # | 96 |
| 46) CHLOROFORM | 3.561 | 83 | 3310680 | 39.50 | PPBV | # | 91 |
| 47) 2,4-DIMETHYLPENTANE | 4.085 | 57 | 4063074 | 40.51 | PPBV | # | 90 |
| 48) 1,1,1-TRICHLOROETHANE | 4.171 | 97 | 3623514 | 40.79 | PPBV | | 95 |
| 49) CARBON TETRACHLORIDE | 4.622 | 117 | 4052304 | 40.55 | PPBV | | 98 |
| 50) 1,2-DICHLOROETHANE | 3.998 | 62 | 2735252 | 42.45 | PPBV | # | 92 |
| 51) BENZENE | 4.506 | 78 | 4513797 | 35.01 | PPBV | | 63 |
| 53) CYCLOHEXANE | 4.721 | 84 | 2245200 | 39.87 | PPBV | # | 43 |
| 54) 2,3-DIMETHYLPENTANE | 5.001 | 71 | 1192321 | 39.39 | PPBV | # | 1 |
| 55) TRICHLOROETHENE | 5.467 | 95 | 2415047 | 39.34 | PPBV | | 93 |
| 56) 1,2-DICHLOROPROPANE | 5.226 | 63 | 2484425 | 40.81 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.181 | 174 | 2046135 | 41.51 | PPBV | # | 84 |
| 58) ETHYL ACRYLATE | 5.364 | 55 | 6912756 | 42.10 | PPBV | # | 96 |
| 59) BROMODICHLOROMETHANE | 5.422 | 83 | 4330357 | 41.01 | PPBV | | 95 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.567 | 57 | 13048431 | 40.35 | PPBV | # | 98 |
| 61) 1,4-DIOXANE | 5.493 | 88 | 1147367 | 37.47 | PPBV | # | 54 |
| 62) HEPTANE | 5.898 | 43 | 5606499 | 41.35 | PPBV | # | 64 |
| 63) METHYL METHACRYLATE | 5.802 | 69 | 2139064 | 41.02 | PPBV | # | 15 |
| 64) METHYL ISOBUTYL KETONE | 6.583 | 58 | 2656271 | 42.34 | PPBV | # | 1 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.454 | 75 | 3428569 | 43.87 | PPBV | # | 63 |
| 66) TOLUENE | 7.715 | 91 | 7305781 | 42.53 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.789 | 76 | 3492559 | 40.38 | PPBV | # | 97 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.168 | 75 | 3247214 | 43.89 | PPBV | # | 67 |
| 69) 1,1,2-TRICHLOROETHANE | 7.338 | 83 | 2138578 | 42.20 | PPBV | | 99 |
| 70) 2-HEXANONE | 8.329 | 58 | 3536535 | 41.92 | PPBV | # | 60 |
| 71) ETHYL METHACRYLATE | 8.461 | 69 | 3835760 | 40.58 | PPBV | # | 49 |
| 72) TETRACHLOROETHENE | 9.499 | 164 | 2539856 | 43.34 | PPBV | | 91 |
| 73) DIBROMOCHLOROMETHANE | 8.274 | 129 | 4756183 | 43.92 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.650 | 107 | 3910810 | 41.69 | PPBV | # | 6 |
| 75) OCTANE | 9.650 | 43 | 8140666 | 42.20 | PPBV | # | 67 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.769 | 131 | 3078239 | 39.15 | PPBV | | 90 |
| 78) CHLOROBENZENE | 10.747 | 112 | 5692898 | 38.87 | PPBV | | 96 |
| 79) ETHYLBENZENE | 11.641 | 91 | 10048035 | 41.85 | PPBV | | 97 |
| 80) M,P-XYLENE | 12.097 | 91 | 14735857 | 76.02 | PPBV | | 95 |
| 81) O-XYLENE | 13.033 | 91 | 7537236 | 38.69 | PPBV | | 95 |
| 82) STYRENE | 12.814 | 104 | 5756508 | 40.60 | PPBV | | 95 |
| 83) NONANE | 14.168 | 43 | 8491814 | 40.06 | PPBV | # | 70 |
| 84) BROMOFORM | 11.904 | 173 | 4267923 | 42.04 | PPBV | # | 97 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 13.062 | 83 | 5414036 | 37.91 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.348 | 75 | 4173264 | 38.93 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.579 | 120 | 2712404 | 37.09 | PPBV | # | 75 |
| 89) BROMOBENZENE | 14.451 | 77 | 5146900 | 39.18 | PPBV | | 90 |
| 90) 2-CHLOROTOLUENE | 15.583 | 126 | 2504622 | 41.19 | PPBV | | 98 |
| 91) N-PROPYLBENZENE | 15.917 | 120 | 2904001 | 38.73 | PPBV | | 99 |
| 92) 4-ETHYLTOLUENE | 16.235 | 105 | 10975474 | 39.01 | PPBV | | 97 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.383 | 105 | 8946489 | 37.96 | PPBV | | 95 |
| 94) ALPHA-METHYLSTYRENE | 16.570 | 118 | 4437234 | 37.62 | PPBV | | 97 |
| 95) TERT-BUTYLBENZENE | 16.824 | 134 | 1820767 | 36.66 | PPBV | | 74 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.837 | 105 | 8647874 | 36.96 | PPBV | | 94 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58813.D
Acq On : 26 Apr 2022 5:37 pm
Operator : thomash
Sample : ic2619-40
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:47:23 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

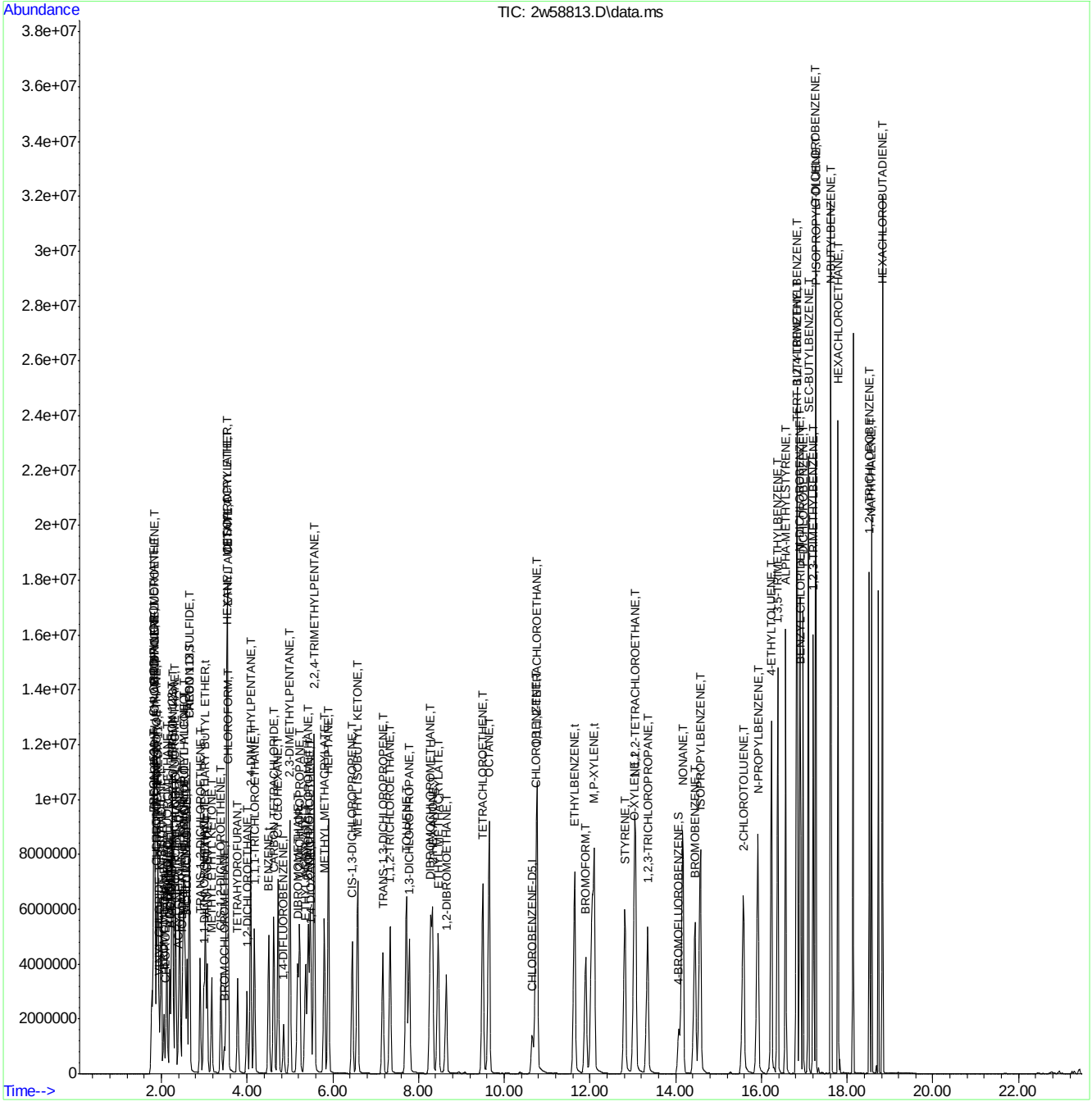
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.917 | 91 | 7362688 | 37.26 | PPBV | # | 94 |
| 98) | M-DICHLOROBENZENE | 16.898 | 146 | 4753812 | 36.40 | PPBV | | 96 |
| 99) | P-DICHLOROBENZENE | 16.975 | 146 | 4619108 | 35.96 | PPBV | | 97 |
| 100) | O-DICHLOROBENZENE | 17.264 | 146 | 4357039 | 35.75 | PPBV | | 96 |
| 101) | SEC-BUTYLBENZENE | 17.097 | 134 | 2121819 | 35.02 | PPBV | | 80 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.209 | 105 | 7993720 | 36.41 | PPBV | | 94 |
| 103) | P-ISOPROPYLTOLUENE | 17.274 | 134 | 2255479 | 35.51 | PPBV | | 80 |
| 104) | N-BUTYLBENZENE | 17.615 | 134 | 2195032 | 37.06 | PPBV | | 76 |
| 105) | HEXACHLOROETHANE | 17.788 | 117 | 3495470 | 37.09 | PPBV | # | 90 |
| 106) | HEXACHLOROBUTADIENE | 18.824 | 225 | 3308693 | 41.24 | PPBV | | 99 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.521 | 180 | 3522104 | 42.99 | PPBV | | 97 |
| 108) | NAPHTHALENE | 18.566 | 128 | 8361512 | 38.55 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58813.D
Acq On : 26 Apr 2022 5:37 pm
Operator : thomash
Sample : ic2619-40
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:47:23 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



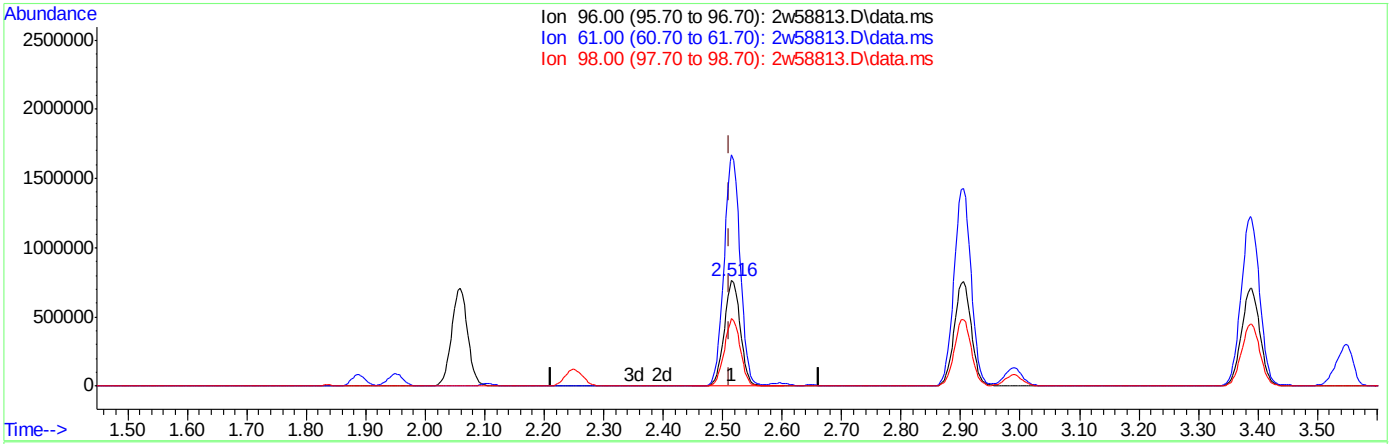
**Sample Number:** V2W2619-IC2619
**Lab FileID:** 2W58813.D
**Injection Time:** 04/26/22 17:37
**Method:** TO-15
**Analyst approved:** 05/11/22 16:26 Thomas Hilbig
**Supervisor approved:** 05/11/22 16:55 Kanya Veerawat

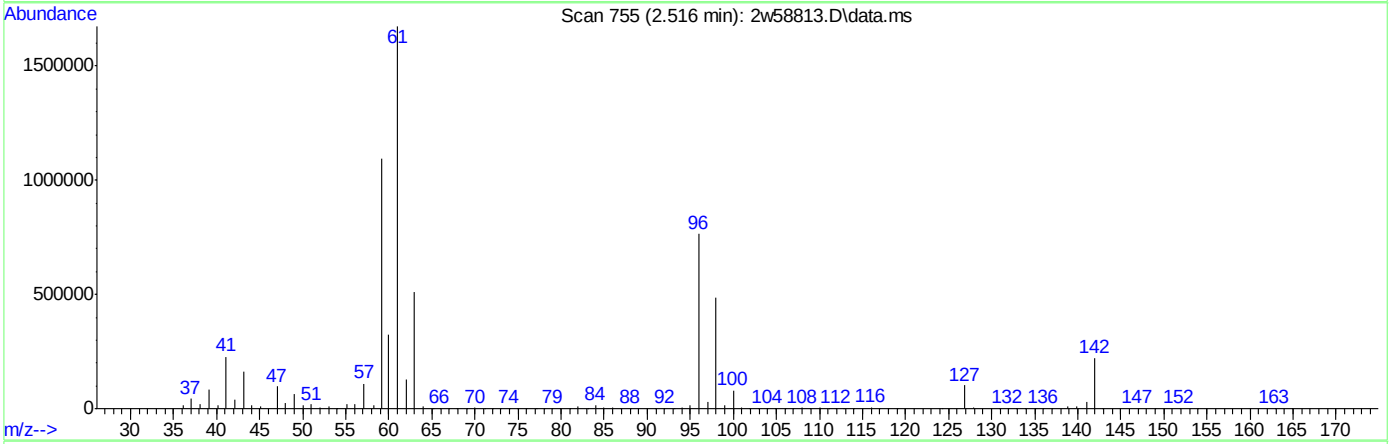
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| trans-1,2-Dichloroethylene | 156-60-5 | | 2.90 | Missed peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58813.D
Acq On : 26 Apr 2022 5:37 pm
Operator : thomash
Sample : ic2619-40
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 09:37:23 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58813.D\data.ms

(34) TRANS-1,2-DICHLOROETHENE (T)

2.516min (+0.004) 38.45PPBV

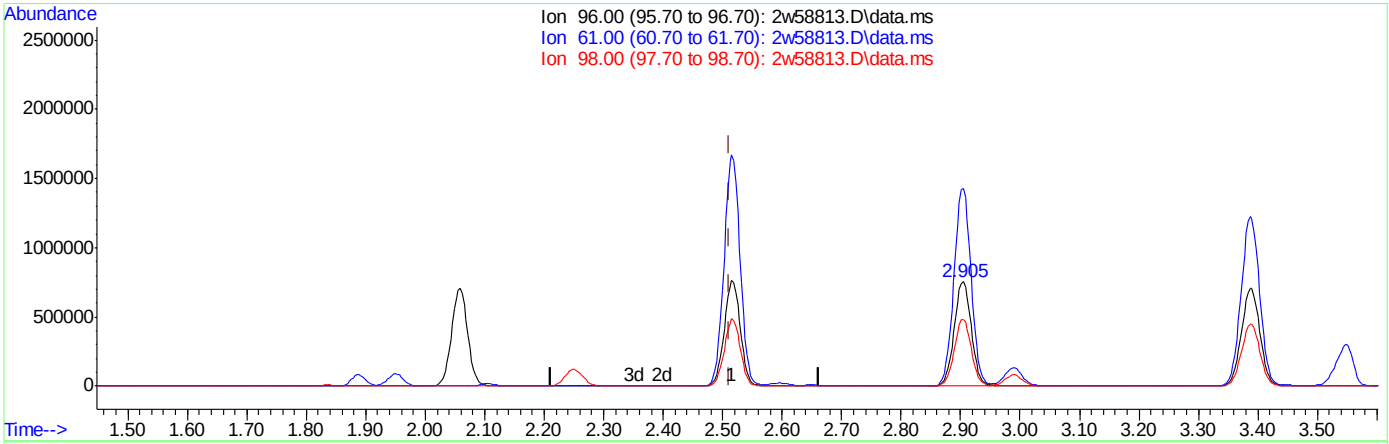
response 1433988

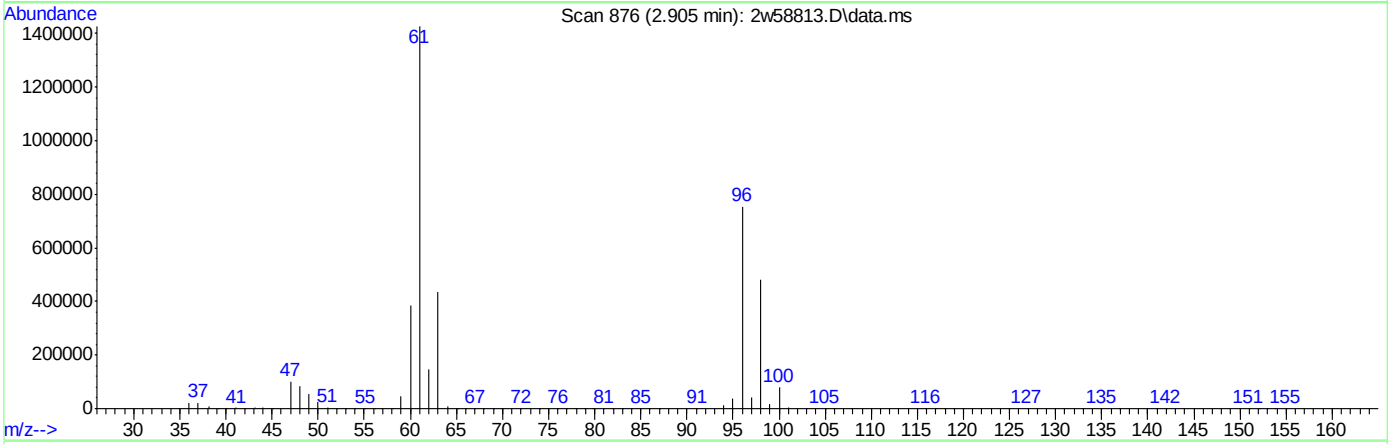
| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 130.40 | 218.48# |
| 98.00 | 63.30 | 63.94 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58813.D
Acq On : 26 Apr 2022 5:37 pm
Operator : thomash
Sample : ic2619-40
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 09:37:23 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58813.D\data.ms

(34) TRANS-1,2-DICHLOROETHENE (T)

2.905min (+0.393) 40.89PPBV m

response 1524728

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 130.40 | 205.48# |
| 98.00 | 63.30 | 60.13 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 05/11/22 16:55

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58814.D
Acq On : 26 Apr 2022 6:20 pm
Operator : thomash
Sample : ic2619-50
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:48:08 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.473 | 128 | 248917 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.853 | 114 | 1556184 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.653 | 117 | 1462770 | 10.00 | PPBV | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.071 | 95 | 1067483 | 9.77 | PPBV | | 0.02 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.811 | 65 | 1459089 | 51.15 | PPBV | # | 63 |
| 4) CHLORODIFLUOROMETHANE | 1.824 | 67 | 682231 | 53.28 | PPBV | | 94 |
| 5) CHLOROTRIFLUOROETHENE | 1.834 | 116 | 2896030 | 49.98 | PPBV | # | 99 |
| 6) DICHLORODIFLUOROMETHANE | 1.850 | 85 | 6606346 | 50.77 | PPBV | # | 94 |
| 7) PROPYLENE | 1.830 | 41 | 2484923 | 47.80 | PPBV | | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.888 | 65 | 4903394 | 53.52 | PPBV | # | 73 |
| 9) FREON 114 | 1.921 | 85 | 5538158 | 49.66 | PPBV | | 91 |
| 10) CHLOROMETHANE | 1.892 | 52 | 800889 | 51.85 | PPBV | # | 62 |
| 11) VINYL CHLORIDE | 1.949 | 62 | 2294032 | 50.13 | PPBV | | 96 |
| 12) 1,3-BUTADIENE | 1.988 | 54 | 2267576 | 51.72 | PPBV | # | 82 |
| 13) N-BUTANE | 2.001 | 43 | 4335958 | 51.91 | PPBV | # | 90 |
| 14) BROMOMETHANE | 2.059 | 94 | 1741240 | 50.04 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.104 | 64 | 1116732 | 50.17 | PPBV | # | 74 |
| 16) DICHLOROFLUOROMETHANE | 2.129 | 67 | 4356506 | 50.69 | PPBV | # | 94 |
| 17) ACETONITRILE | 2.194 | 41 | 2397660 | 51.47 | PPBV | # | 96 |
| 18) ACROLEIN | 2.229 | 56 | 1136987 | 50.17 | PPBV | | 96 |
| 19) FREON 123 | 2.245 | 83 | 4343223 | 49.72 | PPBV | | 99 |
| 20) FREON 123A | 2.261 | 117 | 2404213 | 48.37 | PPBV | | 87 |
| 21) TRICHLOROFLUOROMETHANE | 2.319 | 101 | 5237307 | 50.63 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.342 | 45 | 5176789 | 46.80 | PPBV | # | 95 |
| 23) ACETONE | 2.268 | 58 | 1189313 | 48.23 | PPBV | # | 40 |
| 24) PENTANE | 2.429 | 42 | 2950074 | 49.53 | PPBV | # | 95 |
| 25) IODOMETHANE | 2.490 | 142 | 4490030 | 50.54 | PPBV | # | 82 |
| 26) 1,1-DICHLOROETHYLENE | 2.519 | 96 | 1748694 | 48.32 | PPBV | # | 39 |
| 27) CARBON DISULFIDE | 2.654 | 76 | 5285145 | 50.41 | PPBV | # | 88 |
| 28) ETHANOL | 2.136 | 45 | 1204676 | 48.81 | PPBV | | 97 |
| 29) BROMOETHENE | 2.200 | 106 | 1787114 | 50.24 | PPBV | # | 98 |
| 30) ACRYLONITRILE | 2.406 | 52 | 2035597 | 51.72 | PPBV | | 96 |
| 31) METHYLENE CHLORIDE | 2.554 | 84 | 1568625 | 47.47 | PPBV | # | 18 |
| 32) 3-CHLOROPROPENE | 2.599 | 76 | 776995 | 46.58 | PPBV | # | 1 |
| 33) FREON 113 | 2.654 | 151 | 2827763 | 49.31 | PPBV | | 82 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.904 | 96 | 1881473m | 51.71 | PPBV | | |
| 35) TERTIARY BUTYL ALCOHOL | 2.531 | 59 | 4808580 | 42.74 | PPBV | # | 76 |
| 36) METHYL TERTIARY BUTYL ... | 3.023 | 73 | 5631663 | 50.16 | PPBV | # | 85 |
| 37) TETRAHYDROFURAN | 3.779 | 72 | 827454 | 50.45 | PPBV | # | 1 |
| 38) HEXANE | 3.528 | 57 | 4111219 | 49.14 | PPBV | # | 81 |
| 39) VINYL ACETATE | 3.072 | 86 | 458198 | 50.67 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.988 | 63 | 3973577 | 51.04 | PPBV | | 96 |
| 41) METHYL ETHYL KETONE | 3.178 | 72 | 868833 | 49.80 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.387 | 96 | 1884937 | 51.03 | PPBV | # | 66 |
| 43) DIISOPROPYL ETHER | 3.541 | 59 | 1151119 | 49.14 | PPBV | # | 46 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58814.D
Acq On : 26 Apr 2022 6:20 pm
Operator : thomash
Sample : ic2619-50
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:48:08 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 44) | ETHYL ACETATE | 3.554 | 61 | 758760 | 49.33 | PPBV | # | 13 |
| 45) | METHYL ACRYLATE | 3.531 | 55 | 5356769 | 49.62 | PPBV | # | 96 |
| 46) | CHLOROFORM | 3.567 | 83 | 4103643 | 50.19 | PPBV | # | 91 |
| 47) | 2,4-DIMETHYLPENTANE | 4.088 | 57 | 5018534 | 51.28 | PPBV | # | 91 |
| 48) | 1,1,1-TRICHLOROETHANE | 4.171 | 97 | 4511302 | 52.05 | PPBV | | 95 |
| 49) | CARBON TETRACHLORIDE | 4.625 | 117 | 5062171 | 51.92 | PPBV | | 98 |
| 50) | 1,2-DICHLOROETHANE | 4.001 | 62 | 3411595 | 54.27 | PPBV | # | 92 |
| 51) | BENZENE | 4.506 | 78 | 5525196 | 43.92 | PPBV | | 63 |
| 53) | CYCLOHEXANE | 4.724 | 84 | 2741961 | 49.51 | PPBV | # | 42 |
| 54) | 2,3-DIMETHYLPENTANE | 5.001 | 71 | 1463036 | 49.15 | PPBV | # | 1 |
| 55) | TRICHLOROETHENE | 5.477 | 95 | 2964006 | 49.10 | PPBV | | 93 |
| 56) | 1,2-DICHLOROPROPANE | 5.229 | 63 | 3044510 | 50.86 | PPBV | | 97 |
| 57) | DIBROMOMETHANE | 5.181 | 174 | 2536764 | 52.33 | PPBV | # | 85 |
| 58) | ETHYL ACRYLATE | 5.374 | 55 | 8602905 | 53.27 | PPBV | # | 95 |
| 59) | BROMODICHLOROMETHANE | 5.432 | 83 | 5358014 | 51.60 | PPBV | | 95 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.573 | 57 | 15931229 | 50.09 | PPBV | # | 98 |
| 61) | 1,4-DIOXANE | 5.502 | 88 | 1401536 | 46.54 | PPBV | # | 53 |
| 62) | HEPTANE | 5.904 | 43 | 6926274 | 51.95 | PPBV | # | 64 |
| 63) | METHYL METHACRYLATE | 5.808 | 69 | 2639781 | 51.47 | PPBV | # | 14 |
| 64) | METHYL ISOBUTYL KETONE | 6.589 | 58 | 3247250 | 52.63 | PPBV | # | 1 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.460 | 75 | 4269976 | 55.56 | PPBV | # | 62 |
| 66) | TOLUENE | 7.721 | 91 | 8966237 | 53.08 | PPBV | | 99 |
| 67) | 1,3-DICHLOROPROPANE | 7.798 | 76 | 4338134 | 51.00 | PPBV | # | 97 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.174 | 75 | 4113964 | 56.54 | PPBV | # | 67 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.345 | 83 | 2627511 | 52.72 | PPBV | | 100 |
| 70) | 2-HEXANONE | 8.341 | 58 | 4346194 | 52.38 | PPBV | # | 59 |
| 71) | ETHYL METHACRYLATE | 8.470 | 69 | 4681641 | 50.36 | PPBV | # | 48 |
| 72) | TETRACHLOROETHENE | 9.509 | 164 | 3143333 | 54.54 | PPBV | | 91 |
| 73) | DIBROMOCHLOROMETHANE | 8.284 | 129 | 5914344 | 55.53 | PPBV | | 99 |
| 74) | 1,2-DIBROMOETHANE | 8.663 | 107 | 4830296 | 52.36 | PPBV | | 99 |
| 75) | OCTANE | 9.657 | 43 | 10046356 | 52.96 | PPBV | # | 67 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.775 | 131 | 3806923 | 49.07 | PPBV | | 90 |
| 78) | CHLOROBENZENE | 10.756 | 112 | 7021925 | 48.59 | PPBV | | 96 |
| 79) | ETHYLBENZENE | 11.650 | 91 | 12404990 | 52.36 | PPBV | | 97 |
| 80) | M,P-XYLENE | 12.113 | 91 | 17931923 | 93.75 | PPBV | | 95 |
| 81) | O-XYLENE | 13.036 | 91 | 9220069 | 47.96 | PPBV | | 95 |
| 82) | STYRENE | 12.827 | 104 | 7055450 | 50.43 | PPBV | | 95 |
| 83) | NONANE | 14.180 | 43 | 10507927 | 50.24 | PPBV | # | 16 |
| 84) | BROMOFORM | 11.907 | 173 | 5316712 | 53.07 | PPBV | # | 97 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 13.074 | 83 | 6558484 | 46.54 | PPBV | | 100 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.361 | 75 | 5127479 | 48.47 | PPBV | # | 100 |
| 88) | ISOPROPYLBENZENE | 14.589 | 120 | 3298708 | 45.72 | PPBV | # | 74 |
| 89) | BROMOBENZENE | 14.467 | 77 | 6352681 | 49.01 | PPBV | # | 17 |
| 90) | 2-CHLOROTOLUENE | 15.592 | 126 | 3103922 | 51.74 | PPBV | | 98 |
| 91) | N-PROPYLBENZENE | 15.933 | 120 | 3541591 | 47.88 | PPBV | | 99 |
| 92) | 4-ETHYLTOLUENE | 16.245 | 105 | 13481089 | 48.56 | PPBV | | 97 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.386 | 105 | 10988106 | 47.26 | PPBV | | 95 |
| 94) | ALPHA-METHYLSTYRENE | 16.573 | 118 | 5420540 | 46.58 | PPBV | | 97 |
| 95) | TERT-BUTYLBENZENE | 16.830 | 134 | 2228155 | 45.47 | PPBV | | 76 |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.843 | 105 | 10515254 | 45.55 | PPBV | | 94 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58814.D
Acq On : 26 Apr 2022 6:20 pm
Operator : thomash
Sample : ic2619-50
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:48:08 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration

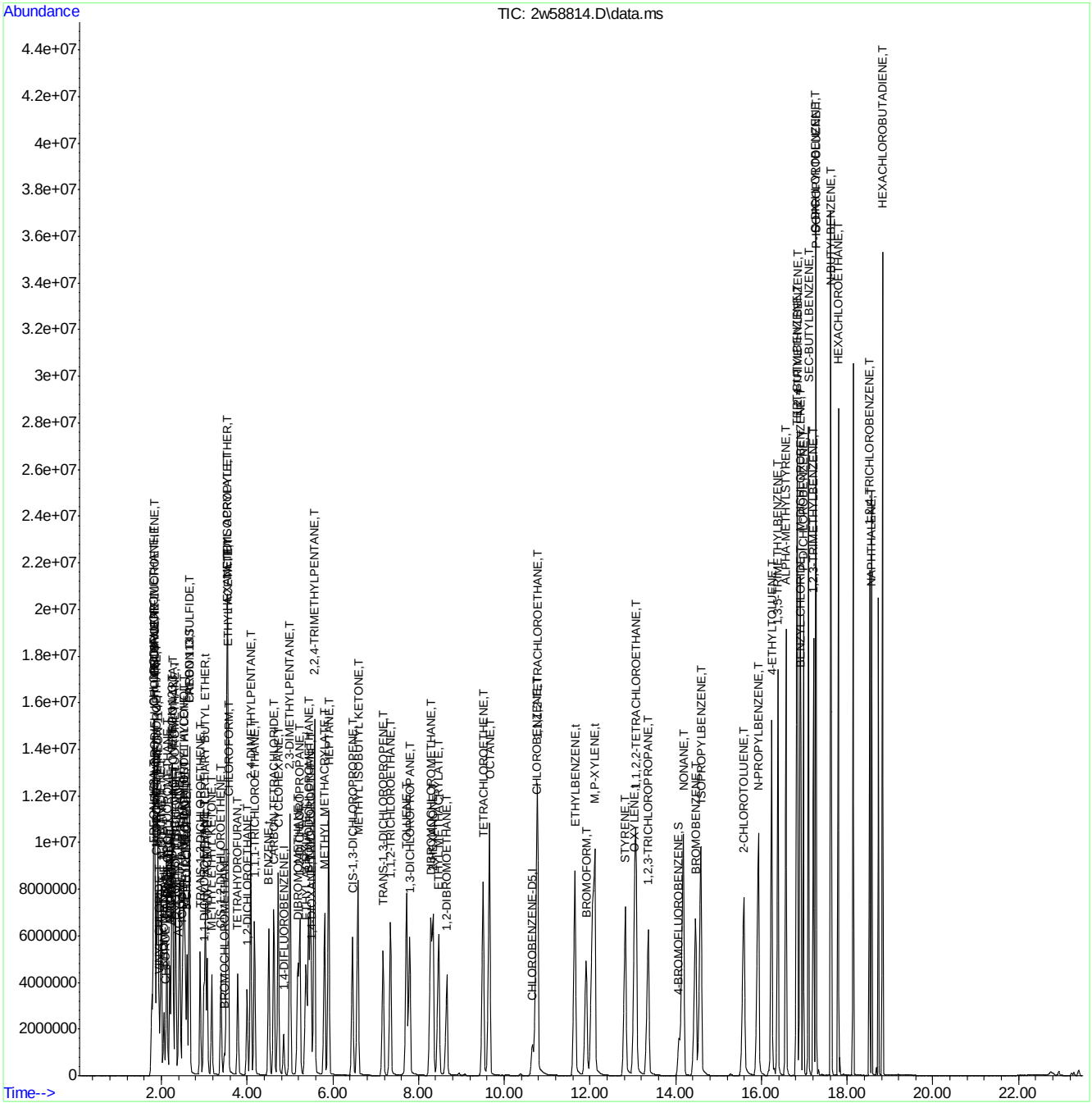
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.923 | 91 | 8853889 | 45.41 | PPBV | # | 94 |
| 98) | M-DICHLOROBENZENE | 16.904 | 146 | 5771786 | 44.79 | PPBV | | 96 |
| 99) | P-DICHLOROBENZENE | 16.978 | 146 | 5586681 | 44.08 | PPBV | | 96 |
| 100) | O-DICHLOROBENZENE | 17.267 | 146 | 5304618 | 44.11 | PPBV | | 97 |
| 101) | SEC-BUTYLBENZENE | 17.100 | 134 | 2586529 | 43.27 | PPBV | | 99 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.216 | 105 | 9683626 | 44.70 | PPBV | | 94 |
| 103) | P-ISOPROPYLTOLUENE | 17.277 | 134 | 2765859 | 44.13 | PPBV | | 92 |
| 104) | N-BUTYLBENZENE | 17.618 | 134 | 2717941 | 46.50 | PPBV | | 94 |
| 105) | HEXACHLOROETHANE | 17.794 | 117 | 4267440 | 45.90 | PPBV | # | 90 |
| 106) | HEXACHLOROBUTADIENE | 18.827 | 225 | 4042116 | 51.06 | PPBV | | 99 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.521 | 180 | 4370713 | 54.07 | PPBV | | 98 |
| 108) | NAPHTHALENE | 18.566 | 128 | 9234067 | 43.14 | PPBV | | 96 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58814.D
Acq On : 26 Apr 2022 6:20 pm
Operator : thomash
Sample : ic2619-50
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 11 14:48:08 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V2W2619-IC2619
**Lab FileID:** 2W58814.D
**Injection Time:** 04/26/22 18:20

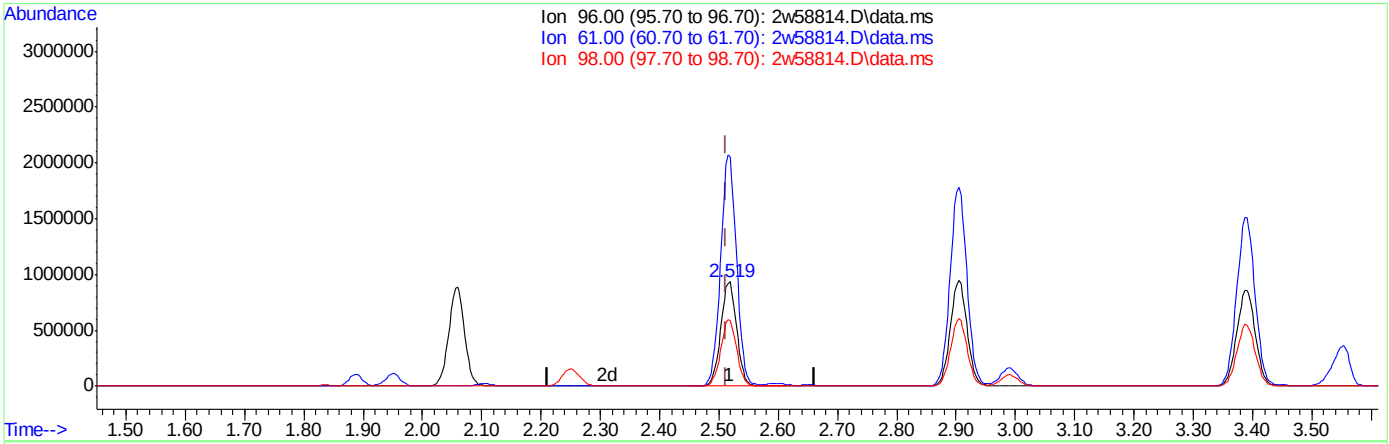
**Method:** TO-15
**Analyst approved:** 05/11/22 16:26 Thomas Hilbig
**Supervisor approved:** 05/11/22 16:55 Kanya Veerawat

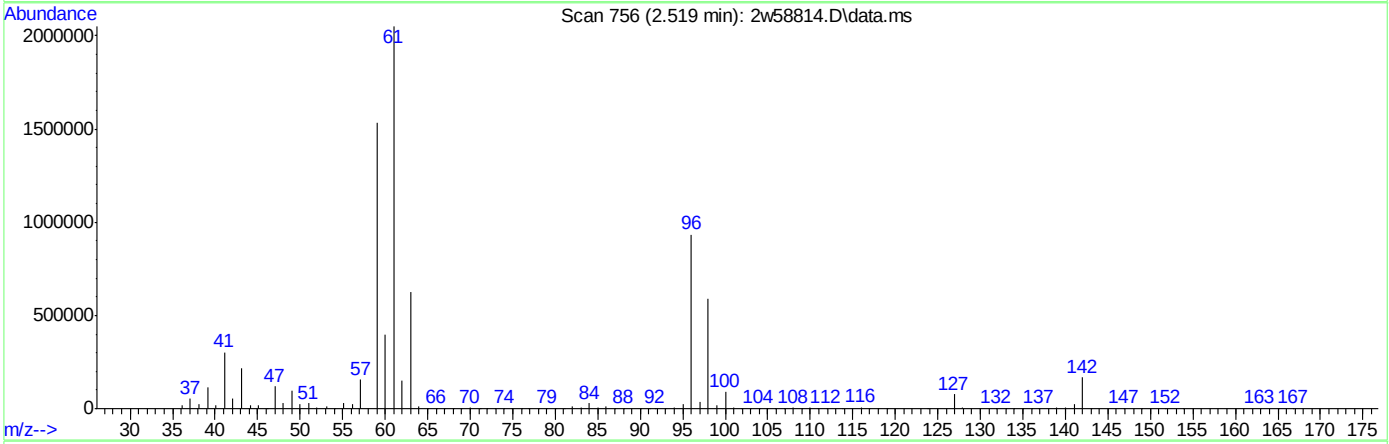
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| trans-1,2-Dichloroethylene | 156-60-5 | | 2.90 | Missed peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58814.D
Acq On : 26 Apr 2022 6:20 pm
Operator : thomash
Sample : ic2619-50
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 09:37:35 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58814.D\data.ms

(34) TRANS-1,2-DICHLOROETHENE (T)

2.519min (+0.007) 48.06PPBV

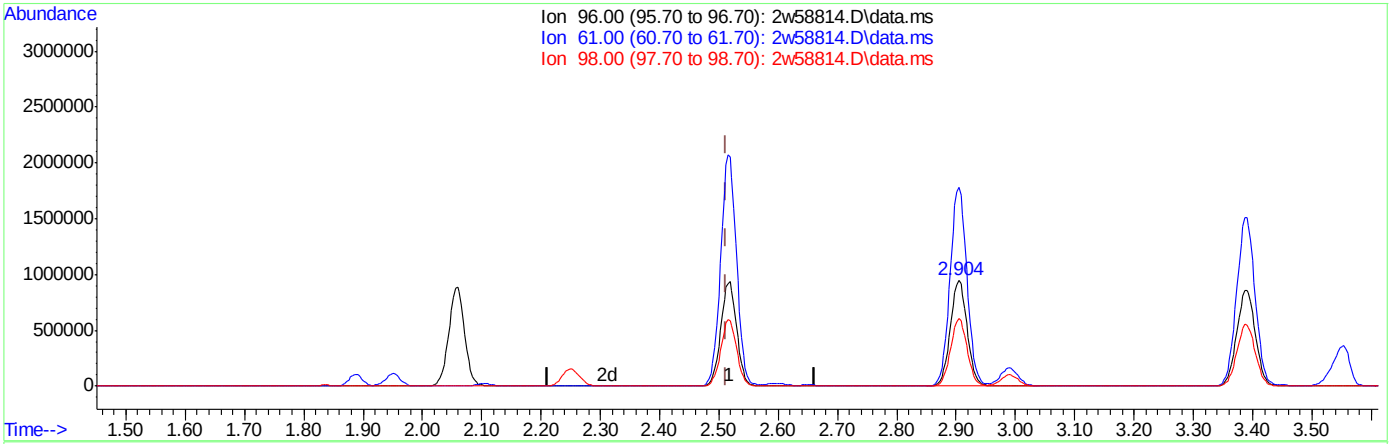
response 1748694

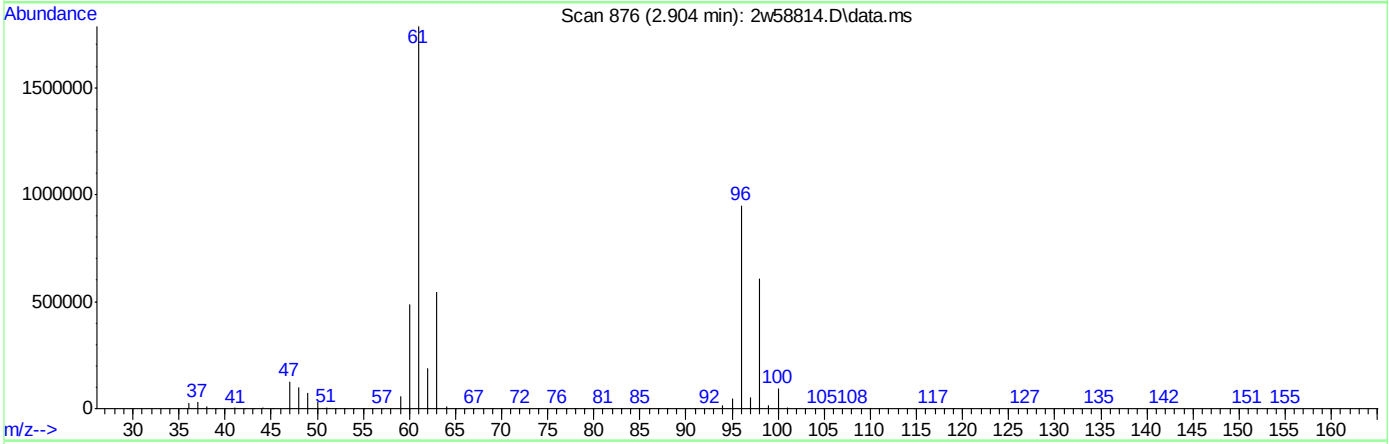
| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 130.40 | 220.38# |
| 98.00 | 63.30 | 64.16 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58814.D
Acq On : 26 Apr 2022 6:20 pm
Operator : thomash
Sample : ic2619-50
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 27 09:37:35 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 08:55:15 2022
Response via : Initial Calibration




TIC: 2w58814.D\data.ms

(34) TRANS-1,2-DICHLOROETHENE (T)

2.904min (+0.392) 51.71PPBV m

response 1881473

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 130.40 | 204.82# |
| 98.00 | 63.30 | 59.63 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58819.D
Acq On : 27 Apr 2022 10:06 am
Operator : thomash
Sample : icv2619-10
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 14:50:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.467 | 128 | 301166 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.846 | 114 | 1798526 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.637 | 117 | 1658306 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.052 | 95 | 1236274 | 10.28 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) FREON 115 | 1.785 | 119 | 444551 | 7.41 | PPBV | # | 100 |
| 3) FREON 152A | 1.814 | 65 | 327006 | 9.22 | PPBV | # | 72 |
| 4) CHLORODIFLUOROMETHANE | 1.827 | 67 | 151438 | 9.41 | PPBV | # | 39 |
| 5) CHLOROTRIFLUOROETHENE | 1.834 | 116 | 671190 | 9.49 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.850 | 85 | 1326503 | 8.31 | PPBV | # | 94 |
| 7) PROPYLENE | 1.830 | 41 | 554689 | 8.54 | PPBV | | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.888 | 65 | 1052085 | 9.38 | PPBV | # | 73 |
| 9) FREON 114 | 1.921 | 85 | 1284423 | 9.75 | PPBV | | 90 |
| 10) CHLOROMETHANE | 1.892 | 52 | 173830 | 8.13 | PPBV | # | 64 |
| 11) VINYL CHLORIDE | 1.949 | 62 | 525144 | 9.31 | PPBV | | 96 |
| 12) 1,3-BUTADIENE | 1.988 | 54 | 489884 | 9.07 | PPBV | # | 84 |
| 13) N-BUTANE | 2.004 | 43 | 921039 | 8.32 | PPBV | # | 91 |
| 14) BROMOMETHANE | 2.059 | 94 | 409553 | 9.51 | PPBV | | 100 |
| 15) CHLOROETHANE | 2.104 | 64 | 258571 | 9.43 | PPBV | # | 76 |
| 16) DICHLOROFLUOROMETHANE | 2.130 | 67 | 988306 | 9.30 | PPBV | # | 94 |
| 17) ACETONITRILE | 2.194 | 41 | 506754 | 8.60 | PPBV | | 97 |
| 18) ACROLEIN | 2.229 | 56 | 205552 | 7.63 | PPBV | | 94 |
| 19) FREON 123 | 2.242 | 83 | 1055798 | 10.13 | PPBV | | 98 |
| 20) FREON 123A | 2.261 | 117 | 639611 | 10.74 | PPBV | | 90 |
| 21) TRICHLOROFLUOROMETHANE | 2.319 | 101 | 1216596 | 9.80 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.335 | 45 | 1254387 | 8.72 | PPBV | # | 95 |
| 23) ACETONE | 2.268 | 58 | 283656 | 8.36 | PPBV | # | 47 |
| 24) PENTANE | 2.432 | 42 | 668318 | 9.06 | PPBV | # | 95 |
| 25) IODOMETHANE | 2.490 | 142 | 1057913 | 10.00 | PPBV | # | 82 |
| 26) 1,1-DICHLOROETHYLENE | 2.515 | 96 | 430150 | 9.96 | PPBV | # | 47 |
| 27) CARBON DISULFIDE | 2.654 | 76 | 1170824 | 9.31 | PPBV | # | 88 |
| 28) ETHANOL | 2.133 | 45 | 284646 | 8.93 | PPBV | | 98 |
| 29) BROMOETHENE | 2.200 | 106 | 426936 | 9.96 | PPBV | # | 99 |
| 30) ACRYLONITRILE | 2.403 | 52 | 439009 | 8.94 | PPBV | | 96 |
| 31) METHYLENE CHLORIDE | 2.554 | 84 | 381067 | 8.01 | PPBV | # | 28 |
| 32) 3-CHLOROPROPENE | 2.596 | 76 | 192002 | 9.66 | PPBV | # | 1 |
| 33) FREON 113 | 2.654 | 151 | 665267 | 9.83 | PPBV | | 84 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.901 | 96 | 442087 | 9.83 | PPBV | # | 70 |
| 35) TERTIARY BUTYL ALCOHOL | 2.525 | 59 | 1167420 | 9.60 | PPBV | # | 76 |
| 36) METHYL TERTIARY BUTYL ... | 3.023 | 73 | 1341657 | 10.24 | PPBV | # | 87 |
| 37) TETRAHYDROFURAN | 3.776 | 72 | 192347 | 9.85 | PPBV | # | 6 |
| 38) HEXANE | 3.522 | 57 | 987377 | 9.75 | PPBV | # | 79 |
| 39) VINYL ACETATE | 3.065 | 86 | 92175 | 9.13 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.988 | 63 | 935850 | 10.14 | PPBV | | 96 |
| 41) METHYL ETHYL KETONE | 3.168 | 72 | 215244 | 10.34 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.383 | 96 | 446260 | 10.19 | PPBV | # | 68 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58819.D
Acq On : 27 Apr 2022 10:06 am
Operator : thomash
Sample : icv2619-10
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 14:50:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 43) DIISOPROPYL ETHER | 3.531 | 59 | 272610 | 9.67 | PPBV | # | 31 |
| 44) ETHYL ACETATE | 3.538 | 61 | 182516 | 9.97 | PPBV | # | 1 |
| 45) METHYL ACRYLATE | 3.522 | 55 | 1239719 | 9.56 | PPBV | # | 96 |
| 46) CHLOROFORM | 3.547 | 83 | 948818 | 9.63 | PPBV | # | 91 |
| 47) 2,4-DIMETHYLPENTANE | 4.078 | 57 | 1161278 | 9.92 | PPBV | # | 91 |
| 48) 1,1,1-TRICHLOROETHANE | 4.165 | 97 | 1022803 | 10.07 | PPBV | | 96 |
| 49) CARBON TETRACHLORIDE | 4.615 | 117 | 1135416 | 10.59 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.991 | 62 | 767063 | 10.10 | PPBV | # | 93 |
| 51) BENZENE | 4.499 | 78 | 1260030 | 9.21 | PPBV | | 66 |
| 53) CYCLOHEXANE | 4.718 | 84 | 662378 | 10.56 | PPBV | # | 48 |
| 54) 2,3-DIMETHYLPENTANE | 4.988 | 71 | 356037 | 10.41 | PPBV | # | 13 |
| 55) TRICHLOROETHENE | 5.454 | 95 | 722493 | 10.71 | PPBV | | 94 |
| 56) 1,2-DICHLOROPROPANE | 5.210 | 63 | 699205 | 9.84 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.168 | 174 | 584064 | 9.79 | PPBV | # | 86 |
| 58) ETHYL ACRYLATE | 5.338 | 55 | 1873087 | 10.40 | PPBV | # | 96 |
| 59) BROMODICHLOROMETHANE | 5.399 | 83 | 1228005 | 10.62 | PPBV | | 100 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.551 | 57 | 3757010 | 10.26 | PPBV | # | 97 |
| 61) 1,4-DIOXANE | 5.473 | 88 | 358886 | 10.57 | PPBV | # | 61 |
| 62) HEPTANE | 5.885 | 43 | 1568419 | 10.32 | PPBV | # | 66 |
| 63) METHYL METHACRYLATE | 5.782 | 69 | 608489 | 10.41 | PPBV | # | 23 |
| 64) METHYL ISOBUTYL KETONE | 6.554 | 58 | 739523 | 10.69 | PPBV | # | 60 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.438 | 75 | 1000941 | 11.45 | PPBV | # | 66 |
| 66) TOLUENE | 7.695 | 91 | 2012217 | 10.66 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.760 | 76 | 983429 | 10.57 | PPBV | # | 97 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.149 | 75 | 900771 | 11.06 | PPBV | # | 71 |
| 69) 1,1,2-TRICHLOROETHANE | 7.316 | 83 | 586816 | 10.67 | PPBV | | 100 |
| 70) 2-HEXANONE | 8.284 | 58 | 992915 | 11.16 | PPBV | # | 64 |
| 71) ETHYL METHACRYLATE | 8.422 | 69 | 1074943 | 10.91 | PPBV | # | 54 |
| 72) TETRACHLOROETHENE | 9.480 | 164 | 695522 | 10.80 | PPBV | | 90 |
| 73) DIBROMOCHLOROMETHANE | 8.251 | 129 | 1276975 | 10.90 | PPBV | | 98 |
| 74) 1,2-DIBROMOETHANE | 8.608 | 107 | 1116485 | 11.13 | PPBV | | 98 |
| 75) OCTANE | 9.621 | 43 | 2210280 | 10.53 | PPBV | # | 69 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.730 | 131 | 861812 | 10.50 | PPBV | | 93 |
| 78) CHLOROBENZENE | 10.721 | 112 | 1615256 | 10.47 | PPBV | | 96 |
| 79) ETHYLBENZENE | 11.615 | 91 | 2691704 | 10.63 | PPBV | | 99 |
| 80) M,P-XYLENE | 12.052 | 91 | 4232333 | 21.92 | PPBV | # | 65 |
| 81) O-XYLENE | 13.000 | 91 | 2148251 | 11.00 | PPBV | | 96 |
| 82) STYRENE | 12.782 | 104 | 1605257 | 11.29 | PPBV | | 96 |
| 83) NONANE | 14.123 | 43 | 2277239 | 10.17 | PPBV | # | 72 |
| 84) BROMOFORM | 11.865 | 173 | 1166998 | 11.86 | PPBV | # | 97 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 13.013 | 83 | 1537061 | 11.16 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.299 | 75 | 1173510 | 11.13 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.531 | 120 | 786983 | 10.74 | PPBV | # | 81 |
| 89) BROMOBENZENE | 14.406 | 77 | 1413148 | 10.56 | PPBV | | 90 |
| 90) 2-CHLOROTOLUENE | 15.544 | 126 | 668100 | 10.68 | PPBV | | 98 |
| 91) N-PROPYLBENZENE | 15.885 | 120 | 814481 | 11.24 | PPBV | | 99 |
| 92) 4-ETHYLTOLUENE | 16.213 | 105 | 3090880 | 11.45 | PPBV | | 98 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.360 | 105 | 2552349 | 11.32 | PPBV | | 96 |
| 94) ALPHA-METHYLSTYRENE | 16.550 | 118 | 1238434 | 11.19 | PPBV | | 98 |
| 95) TERT-BUTYLBENZENE | 16.807 | 134 | 537198 | 10.89 | PPBV | | 79 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58819.D
Acq On : 27 Apr 2022 10:06 am
Operator : thomash
Sample : icv2619-10
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 14:50:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration

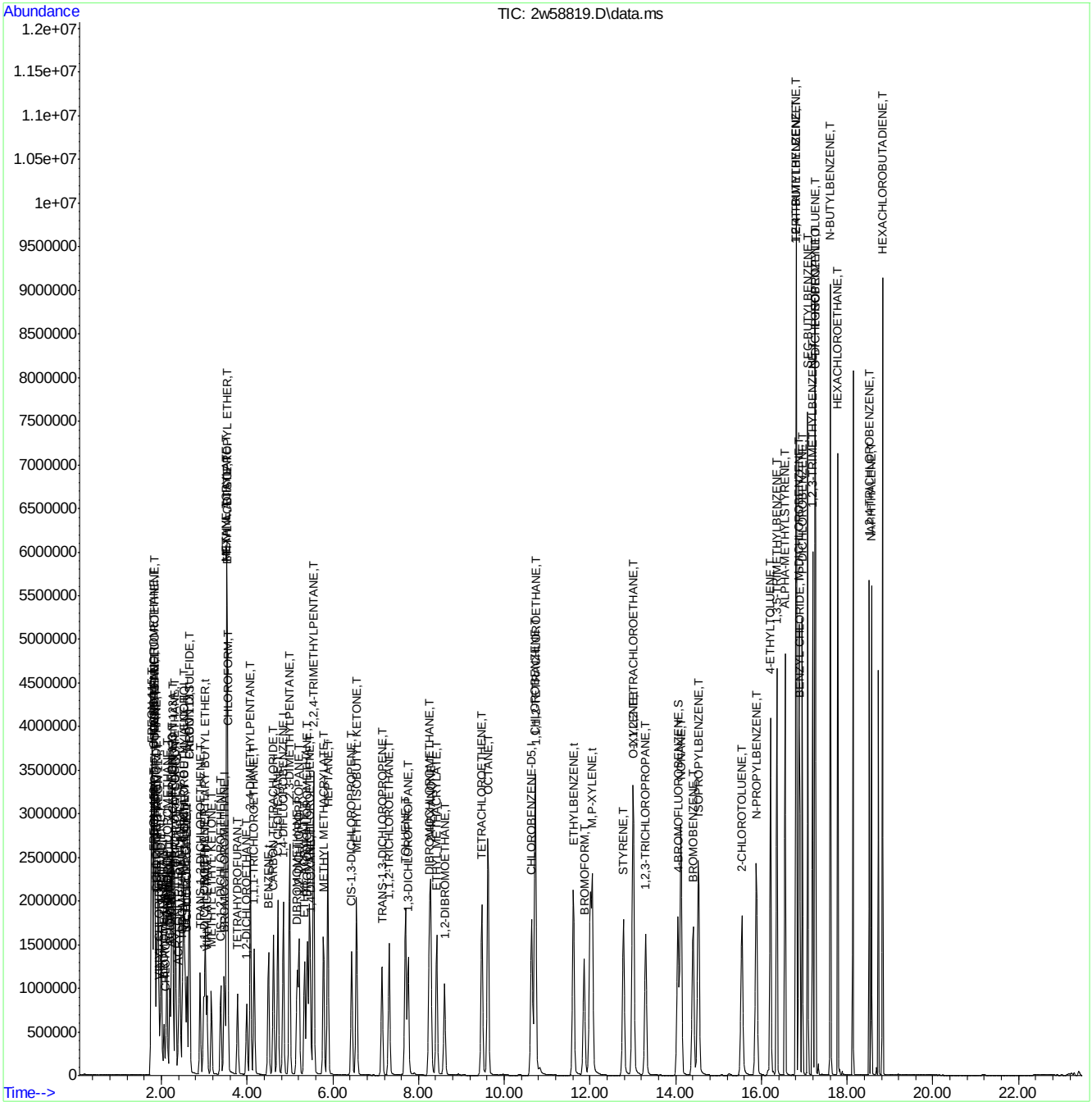
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 96) 1,2,4-TRIMETHYLBENZENE | 16.817 | 105 | 2514926 | 11.48 | PPBV | | 94 |
| 97) BENZYL CHLORIDE | 16.894 | 91 | 1852841 | 10.67 | PPBV | # | 95 |
| 98) M-DICHLOROBENZENE | 16.875 | 146 | 1424589 | 11.72 | PPBV | | 96 |
| 99) P-DICHLOROBENZENE | 16.955 | 146 | 1410831 | 11.78 | PPBV | | 96 |
| 100) O-DICHLOROBENZENE | 17.248 | 146 | 1315134 | 11.60 | PPBV | | 96 |
| 101) SEC-BUTYLBENZENE | 17.081 | 134 | 659942 | 11.15 | PPBV | | 78 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.193 | 105 | 2378371 | 11.29 | PPBV | | 96 |
| 103) P-ISOPROPYLTOLUENE | 17.261 | 134 | 674227 | 10.89 | PPBV | | 79 |
| 104) N-BUTYLBENZENE | 17.605 | 134 | 649738 | 11.55 | PPBV | | 74 |
| 105) HEXACHLOROETHANE | 17.782 | 117 | 991104 | 11.45 | PPBV | # | 87 |
| 106) HEXACHLOROBUTADIENE | 18.827 | 225 | 826365 | 11.08 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.518 | 180 | 888646 | 11.15 | PPBV | | 97 |
| 108) NAPHTHALENE | 18.566 | 128 | 2253223 | 12.11 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w58819.D
Acq On : 27 Apr 2022 10:06 am
Operator : thomash
Sample : icv2619-10
Misc : MS56823,V2w2619,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 11 14:50:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w59298.D
Acq On : 14 May 2022 3:47 pm
Operator : thomash
Sample : cc2619-10
Misc : MS58854,V2w2637,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 17:11:01 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.470 | 128 | 270624 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.849 | 114 | 1715864 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.640 | 117 | 1564056 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.055 | 95 | 1216034 | 10.73 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) FREON 115 | 1.788 | 119 | 293959 | 5.46 | PPBV | # | 100 |
| 3) FREON 152A | 1.817 | 65 | 341193 | 10.70 | PPBV | # | 53 |
| 4) CHLORODIFLUOROMETHANE | 1.827 | 67 | 174122 | 12.04 | PPBV | # | 86 |
| 5) CHLOROTRIFLUOROETHENE | 1.840 | 116 | 667224 | 10.50 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.853 | 85 | 1522242 | 10.62 | PPBV | # | 93 |
| 7) PROPYLENE | 1.833 | 41 | 660986 | 11.33 | PPBV | | 97 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.891 | 65 | 1299038 | 12.89 | PPBV | # | 71 |
| 9) FREON 114 | 1.923 | 85 | 1268262 | 10.71 | PPBV | | 91 |
| 10) CHLOROMETHANE | 1.894 | 52 | 189671 | 9.88 | PPBV | # | 51 |
| 11) VINYL CHLORIDE | 1.952 | 62 | 527626 | 10.41 | PPBV | | 95 |
| 12) 1,3-BUTADIENE | 1.991 | 54 | 525783 | 10.84 | PPBV | # | 74 |
| 13) N-BUTANE | 2.004 | 43 | 1043507 | 10.48 | PPBV | # | 89 |
| 14) BROMOMETHANE | 2.062 | 94 | 385542 | 9.97 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.107 | 64 | 249319 | 10.12 | PPBV | # | 63 |
| 16) DICHLOROFLUOROMETHANE | 2.129 | 67 | 1036126 | 10.84 | PPBV | # | 92 |
| 17) ACETONITRILE | 2.197 | 41 | 565539 | 10.68 | PPBV | # | 96 |
| 18) ACROLEIN | 2.232 | 56 | 227973 | 9.42 | PPBV | | 96 |
| 19) FREON 123 | 2.248 | 83 | 966810 | 10.32 | PPBV | # | 97 |
| 20) FREON 123A | 2.261 | 117 | 581208 | 10.87 | PPBV | | 90 |
| 21) TRICHLOROFLUOROMETHANE | 2.325 | 101 | 1366462 | 12.25 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.338 | 45 | 1370295 | 10.60 | PPBV | # | 99 |
| 23) ACETONE | 2.271 | 58 | 282165 | 9.26 | PPBV | # | 2 |
| 24) PENTANE | 2.431 | 42 | 720461 | 10.87 | PPBV | # | 91 |
| 25) IODOMETHANE | 2.493 | 142 | 987375 | 10.38 | PPBV | # | 67 |
| 26) 1,1-DICHLOROETHYLENE | 2.521 | 96 | 401767 | 10.35 | PPBV | # | 21 |
| 27) CARBON DISULFIDE | 2.656 | 76 | 1160722 | 10.27 | PPBV | # | 78 |
| 28) ETHANOL | 2.136 | 45 | 296039 | 10.33 | PPBV | | 98 |
| 29) BROMOETHENE | 2.203 | 106 | 399533 | 10.37 | PPBV | # | 97 |
| 30) ACRYLONITRILE | 2.406 | 52 | 471996 | 10.70 | PPBV | | 95 |
| 31) METHYLENE CHLORIDE | 2.557 | 84 | 365174 | 8.54 | PPBV | # | 1 |
| 32) 3-CHLOROPROPENE | 2.599 | 76 | 171189 | 9.58 | PPBV | # | 1 |
| 33) FREON 113 | 2.656 | 151 | 656904 | 10.80 | PPBV | | 82 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.904 | 96 | 409058 | 10.13 | PPBV | # | 58 |
| 35) TERTIARY BUTYL ALCOHOL | 2.531 | 59 | 1249264 | 11.43 | PPBV | # | 84 |
| 36) METHYL TERTIARY BUTYL ... | 3.023 | 73 | 1254349 | 10.65 | PPBV | # | 81 |
| 37) TETRAHYDROFURAN | 3.779 | 72 | 172244 | 9.81 | PPBV | # | 1 |
| 38) HEXANE | 3.525 | 57 | 962603 | 10.58 | PPBV | # | 65 |
| 39) VINYL ACETATE | 3.068 | 86 | 94585 | 10.43 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.988 | 63 | 909758 | 10.97 | PPBV | | 96 |
| 41) METHYL ETHYL KETONE | 3.171 | 72 | 178758 | 9.55 | PPBV | # | 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.390 | 96 | 406332 | 10.33 | PPBV | # | 59 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w59298.D
Acq On : 14 May 2022 3:47 pm
Operator : thomash
Sample : cc2619-10
Misc : MS58854,V2w2637,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 17:11:01 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 43) DIISOPROPYL ETHER | 3.534 | 59 | 263324 | 10.39 | PPBV | # | 7 |
| 44) ETHYL ACETATE | 3.538 | 61 | 162849 | 9.90 | PPBV | # | 1 |
| 45) METHYL ACRYLATE | 3.525 | 55 | 1246733 | 10.70 | PPBV | # | 96 |
| 46) CHLOROFORM | 3.554 | 83 | 986821 | 11.14 | PPBV | # | 86 |
| 47) 2,4-DIMETHYLPENTANE | 4.081 | 57 | 1107375 | 10.53 | PPBV | # | 89 |
| 48) 1,1,1-TRICHLOROETHANE | 4.168 | 97 | 1079111 | 11.82 | PPBV | # | 92 |
| 49) CARBON TETRACHLORIDE | 4.621 | 117 | 1219556 | 12.66 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 3.994 | 62 | 856073 | 12.54 | PPBV | # | 91 |
| 51) BENZENE | 4.502 | 78 | 1396782 | 11.37 | PPBV | | 54 |
| 53) CYCLOHEXANE | 4.721 | 84 | 620563 | 10.37 | PPBV | # | 32 |
| 54) 2,3-DIMETHYLPENTANE | 4.994 | 71 | 326483 | 10.01 | PPBV | # | 1 |
| 55) TRICHLOROETHENE | 5.457 | 95 | 697003 | 10.83 | PPBV | | 92 |
| 56) 1,2-DICHLOROPROPANE | 5.216 | 63 | 703175 | 10.37 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.168 | 174 | 554802 | 9.75 | PPBV | # | 81 |
| 58) ETHYL ACRYLATE | 5.341 | 55 | 1941529 | 11.30 | PPBV | # | 95 |
| 59) BROMODICHLOROMETHANE | 5.406 | 83 | 1255942 | 11.39 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.553 | 57 | 3894237 | 11.15 | PPBV | # | 97 |
| 61) 1,4-DIOXANE | 5.473 | 88 | 312081 | 9.64 | PPBV | # | 44 |
| 62) HEPTANE | 5.888 | 43 | 1726456 | 11.91 | PPBV | # | 60 |
| 63) METHYL METHACRYLATE | 5.785 | 69 | 555138 | 9.96 | PPBV | # | 1 |
| 64) METHYL ISOBUTYL KETONE | 6.557 | 58 | 698495 | 10.58 | PPBV | # | 45 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.441 | 75 | 848897 | 10.18 | PPBV | # | 48 |
| 66) TOLUENE | 7.695 | 91 | 1857387 | 10.31 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.762 | 76 | 926733 | 10.44 | PPBV | # | 97 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.152 | 75 | 777908 | 10.01 | PPBV | # | 56 |
| 69) 1,1,2-TRICHLOROETHANE | 7.315 | 83 | 556842 | 10.62 | PPBV | | 99 |
| 70) 2-HEXANONE | 8.287 | 58 | 869907 | 10.25 | PPBV | # | 48 |
| 71) ETHYL METHACRYLATE | 8.425 | 69 | 954974 | 10.16 | PPBV | # | 33 |
| 72) TETRACHLOROETHENE | 9.483 | 164 | 679236 | 11.05 | PPBV | | 88 |
| 73) DIBROMOCHLOROMETHANE | 8.254 | 129 | 1241667 | 11.11 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.611 | 107 | 996576 | 10.41 | PPBV | | 99 |
| 75) OCTANE | 9.624 | 43 | 2458598 | 12.28 | PPBV | # | 64 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.733 | 131 | 841091 | 10.87 | PPBV | # | 86 |
| 78) CHLOROBENZENE | 10.717 | 112 | 1486114 | 10.21 | PPBV | | 95 |
| 79) ETHYLBENZENE | 11.614 | 91 | 2547590 | 10.67 | PPBV | | 97 |
| 80) M,P-XYLENE | 12.058 | 91 | 4091397 | 22.47 | PPBV | # | 65 |
| 81) O-XYLENE | 13.003 | 91 | 2080823 | 11.30 | PPBV | | 93 |
| 82) STYRENE | 12.785 | 104 | 1405423 | 10.48 | PPBV | # | 94 |
| 83) NONANE | 14.126 | 43 | 2627499 | 12.44 | PPBV | # | 66 |
| 84) BROMOFORM | 11.868 | 173 | 1087102 | 11.72 | PPBV | # | 96 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 13.019 | 83 | 1485067 | 11.43 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.302 | 75 | 1132396 | 11.38 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.534 | 120 | 760233 | 11.00 | PPBV | # | 72 |
| 89) BROMOBENZENE | 14.402 | 77 | 1329344 | 10.53 | PPBV | | 89 |
| 90) 2-CHLOROTOLUENE | 15.547 | 126 | 640854 | 10.86 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.884 | 120 | 772595 | 11.30 | PPBV | | 98 |
| 92) 4-ETHYLTOLUENE | 16.212 | 105 | 2966956 | 11.65 | PPBV | | 97 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.360 | 105 | 2535842 | 11.92 | PPBV | # | 94 |
| 94) ALPHA-METHYLSTYRENE | 16.553 | 118 | 1196089 | 11.46 | PPBV | | 97 |
| 95) TERT-BUTYLBENZENE | 16.807 | 134 | 517841 | 11.13 | PPBV | | 71 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w59298.D
Acq On : 14 May 2022 3:47 pm
Operator : thomash
Sample : cc2619-10
Misc : MS58854,V2w2637,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 17:11:01 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration

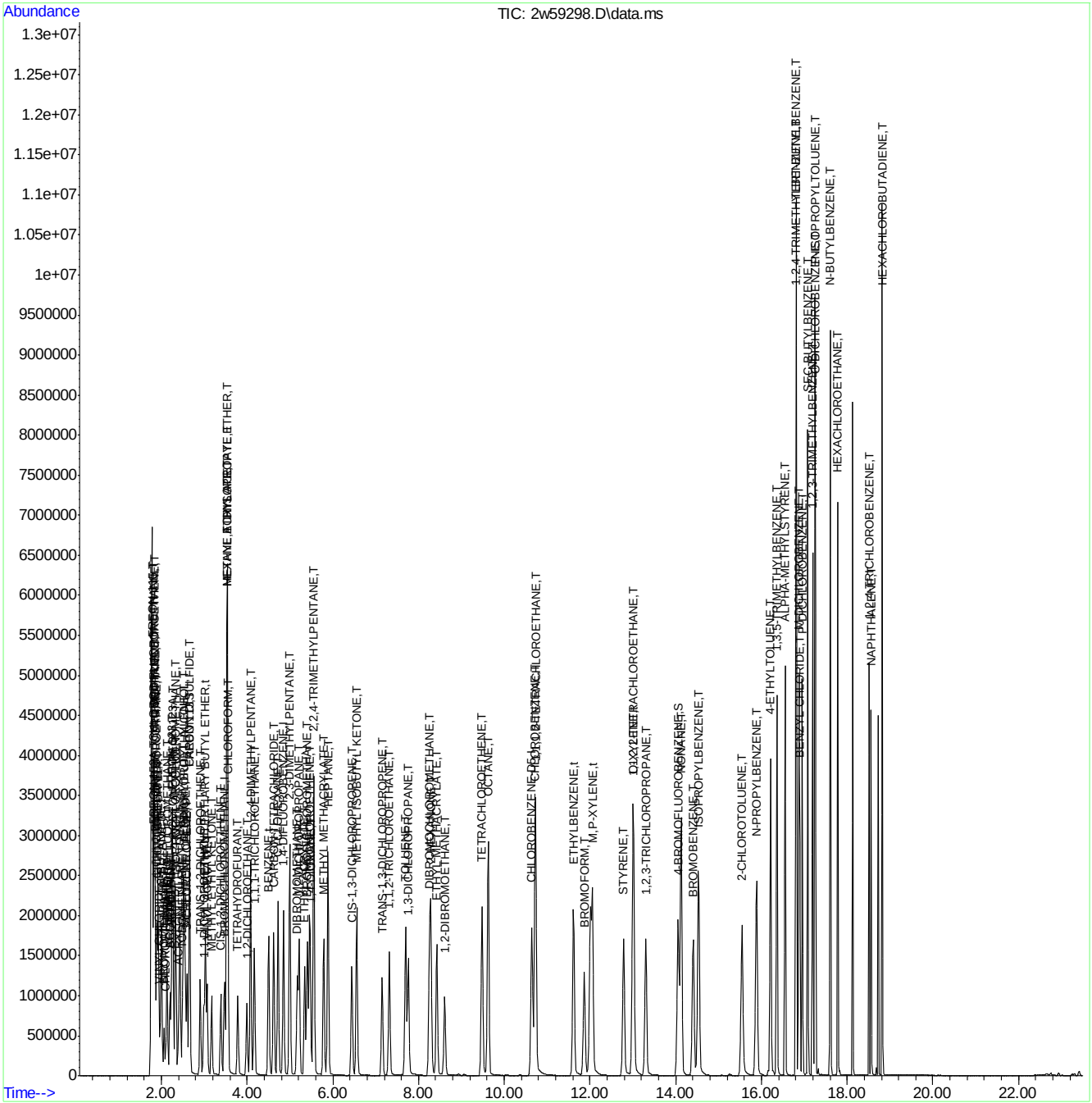
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 96) 1,2,4-TRIMETHYLBENZENE | 16.814 | 105 | 2522183 | 12.21 | PPBV | | 93 |
| 97) BENZYL CHLORIDE | 16.897 | 91 | 1646755 | 10.05 | PPBV | # | 93 |
| 98) M-DICHLOROBENZENE | 16.875 | 146 | 1303642 | 11.37 | PPBV | | 96 |
| 99) P-DICHLOROBENZENE | 16.955 | 146 | 1239853 | 10.97 | PPBV | | 96 |
| 100) O-DICHLOROBENZENE | 17.248 | 146 | 1254257 | 11.73 | PPBV | | 95 |
| 101) SEC-BUTYLBENZENE | 17.084 | 134 | 637356 | 11.42 | PPBV | | 73 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.193 | 105 | 2386420 | 12.01 | PPBV | # | 94 |
| 103) P-ISOPROPYLTOLUENE | 17.257 | 134 | 670361 | 11.48 | PPBV | | 73 |
| 104) N-BUTYLBENZENE | 17.601 | 134 | 611107 | 11.52 | PPBV | # | 66 |
| 105) HEXACHLOROETHANE | 17.778 | 117 | 941399 | 11.53 | PPBV | # | 88 |
| 106) HEXACHLOROBUTADIENE | 18.820 | 225 | 894941 | 12.73 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.511 | 180 | 732058 | 9.74 | PPBV | | 97 |
| 108) NAPHTHALENE | 18.559 | 128 | 1808530 | 10.30 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w59298.D
Acq On : 14 May 2022 3:47 pm
Operator : thomash
Sample : cc2619-10
Misc : MS58854,V2w2637,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 17:11:01 2022
Quant Method : C:\msdchem\1\METHODS\M2W2619.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Apr 27 09:46:06 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/24/22 14:42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61010.D
Acq On : 19 Aug 2022 11:22 am
Operator : thomash
Sample : ic2709-0.04
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:46:55 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:21:21 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.608 | 128 | 65497 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 359956 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 318930 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.959 | 95 | 206801 | 9.74 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 55) TRICHLOROETHENE | 5.515 | 95 | 461m | 0.03 | PPBV | |
| 72) TETRACHLOROETHENE | 9.451 | 164 | 666 | 0.04 | PPBV | # 40 |

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

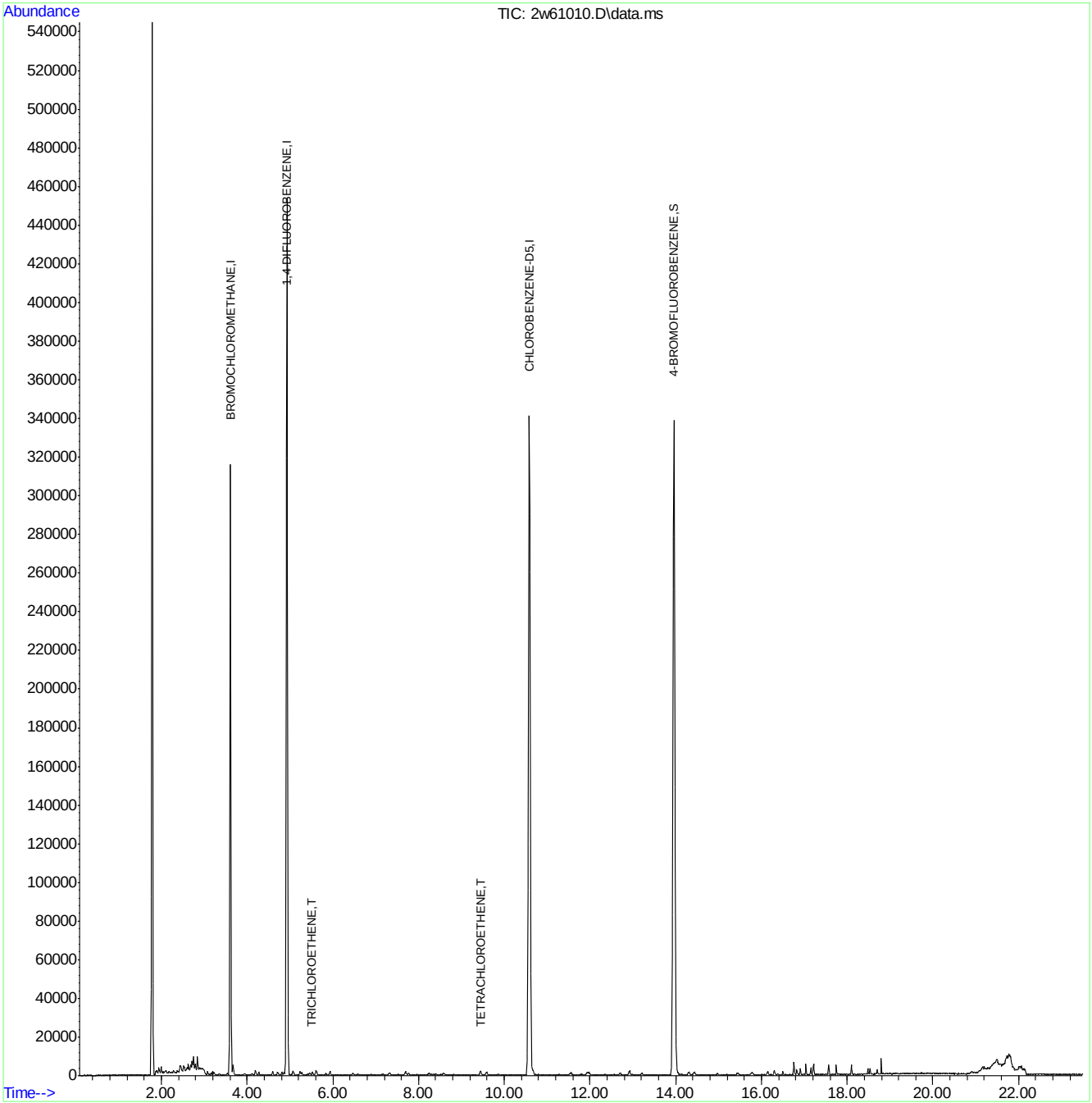
7.7.12

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61010.D
Acq On : 19 Aug 2022 11:22 am
Operator : thomash
Sample : ic2709-0.04
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:46:55 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:21:21 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



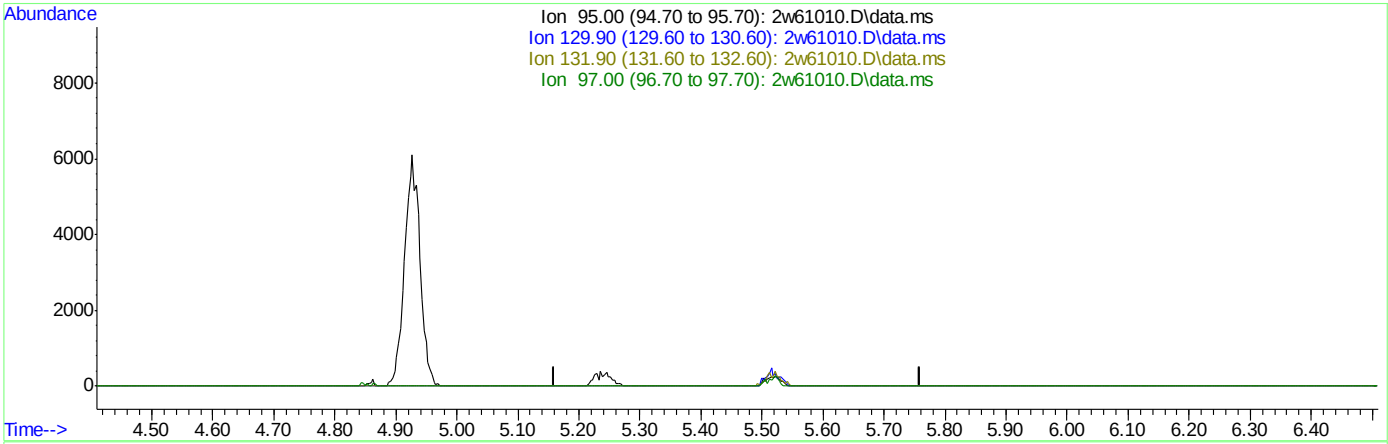
| | | | |
|---|---|---|---|
| **Sample Number:** | V2W2709-IC2709 | **Method:** | TO-15 |
| **Lab FileID:** | 2W61010.D | **Analyst approved:** | 08/23/22 20:59 Benjamin Kim |
| **Injection Time:** | 08/19/22 11:22 | **Supervisor approved:** | 08/24/22 14:42 Kanya Veerawat |

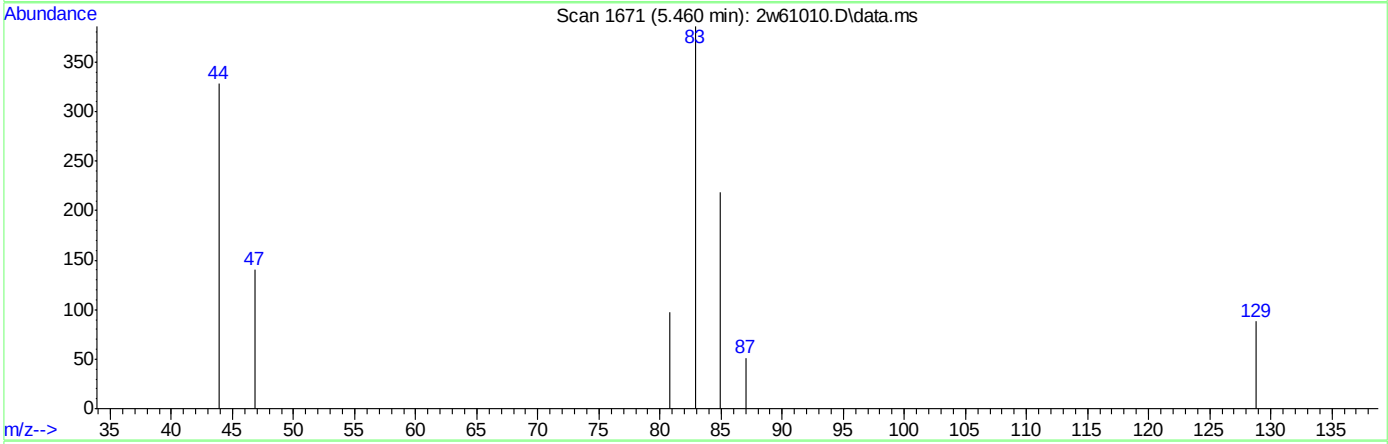
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichloroethylene | 79-01-6 | | 5.52 | Poor instrument integration |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61010.D
Acq On : 19 Aug 2022 11:22 am
Operator : thomash
Sample : ic2709-0.04
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 19 12:31:07 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed May 18 07:44:07 2022
Response via : Initial Calibration




TIC: 2w61010.D\data.ms

(55) TRICHLOROETHENE (T)

5.460min (-5.460) 0.00PPBV

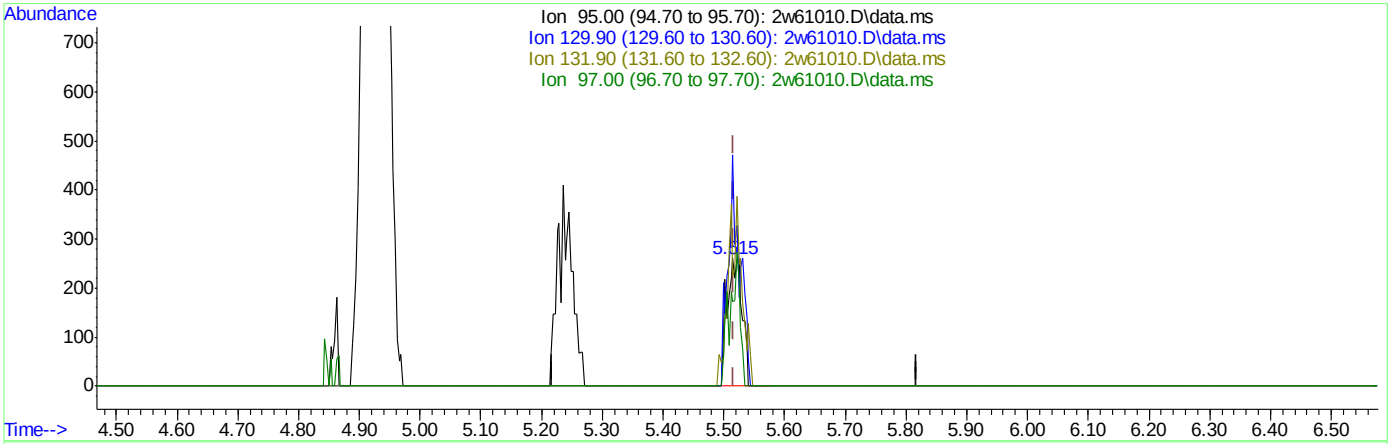
response 0

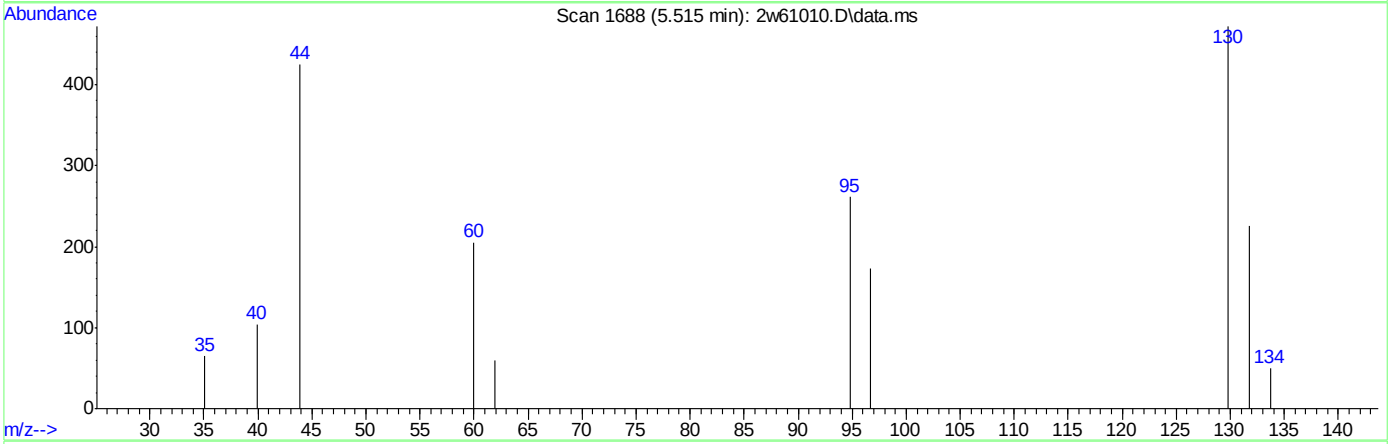
| Ion | Exp% | Act% |
|---|---|---|
| 95.00 | 100 | 0.00 |
| 129.90 | 104.00 | 0.00# |
| 131.90 | 99.70 | 0.00# |
| 97.00 | 64.10 | 0.00# |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61010.D
Acq On : 19 Aug 2022 11:22 am
Operator : thomash
Sample : ic2709-0.04
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:45:16 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:21:21 2022
Response via : Initial Calibration




TIC: 2w61010.D\data.ms

(55) TRICHLOROETHENE (T)

5.515min (-0.003) 0.03PPBV m

response 461

| Ion | Exp% | Act% |
|---|---|---|
| 95.00 | 100 | 100 |
| 129.90 | 103.50 | 0.00# |
| 131.90 | 99.10 | 0.00# |
| 97.00 | 65.00 | 0.00# |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/24/22 14:42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 12:14:03 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.612 | 128 | 64903 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 355487 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 317521 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.956 | 95 | 206670 | 9.78 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.837 | 65 | 560 | 0.10 | PPBV | # | 48 |
| 4) CHLORODIFLUOROMETHANE | 1.860 | 67 | 226m | 0.09 | PPBV | | |
| 5) CHLOROTRIFLUOROETHENE | 1.872 | 116 | 1390 | 0.10 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.895 | 85 | 3356 | 0.10 | PPBV | # | 71 |
| 7) PROPYLENE | 1.872 | 41 | 754 | 0.12 | PPBV | # | 15 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.943 | 65 | 2440 | 0.10 | PPBV | # | 27 |
| 9) FREON 114 | 1.991 | 85 | 2873 | 0.10 | PPBV | | 98 |
| 10) CHLOROMETHANE | 1.950 | 52 | 371m | 0.11 | PPBV | | |
| 11) VINYL CHLORIDE | 2.033 | 62 | 1229 | 0.11 | PPBV | # | 50 |
| 12) 1,3-BUTADIENE | 2.085 | 54 | 843 | 0.10 | PPBV | # | 82 |
| 13) N-BUTANE | 2.104 | 43 | 1865 | 0.12 | PPBV | # | 64 |
| 14) BROMOMETHANE | 2.184 | 94 | 1132 | 0.11 | PPBV | # | 95 |
| 15) CHLOROETHANE | 2.245 | 64 | 628 | 0.10 | PPBV | # | 46 |
| 16) DICHLOROFLUOROMETHANE | 2.278 | 67 | 2428 | 0.10 | PPBV | # | 85 |
| 17) ACETONITRILE | 2.371 | 41 | 1075 | 0.12 | PPBV | # | 79 |
| 18) ACROLEIN | 2.419 | 56 | 214m | 0.05 | PPBV | | |
| 19) FREON 123 | 2.435 | 83 | 2621 | 0.10 | PPBV | | 96 |
| 20) FREON 123A | 2.451 | 117 | 1635 | 0.11 | PPBV | | 97 |
| 21) TRICHLOROFLUOROMETHANE | 2.522 | 101 | 3215 | 0.10 | PPBV | # | 1 |
| 22) ISOPROPYL ALCOHOL | 2.538 | 45 | 3327 | 0.12 | PPBV | # | 88 |
| 23) ACETONE | 2.467 | 58 | 1182 | 0.15 | PPBV | | 93 |
| 24) PENTANE | 2.628 | 42 | 1748 | 0.12 | PPBV | | 85 |
| 25) IODOMETHANE | 2.689 | 142 | 3305 | 0.10 | PPBV | | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.712 | 96 | 1311 | 0.10 | PPBV | | 96 |
| 27) CARBON DISULFIDE | 2.844 | 76 | 3679 | 0.09 | PPBV | # | 84 |
| 28) ETHANOL | 2.284 | 45 | 799 | 0.16 | PPBV | # | 41 |
| 29) BROMOETHENE | 2.381 | 106 | 948 | 0.09 | PPBV | # | 100 |
| 30) ACRYLONITRILE | 2.602 | 52 | 979 | 0.10 | PPBV | # | 85 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 2310 | 0.18 | PPBV | | 92 |
| 32) 3-CHLOROPROPENE | 2.789 | 76 | 670 | 0.10 | PPBV | # | 56 |
| 33) FREON 113 | 2.847 | 151 | 2093 | 0.10 | PPBV | | 97 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.075 | 96 | 1055 | 0.10 | PPBV | | 97 |
| 35) TERTIARY BUTYL ALCOHOL | 2.725 | 59 | 3546 | 0.10 | PPBV | # | 80 |
| 36) METHYL TERTIARY BUTYL ... | 3.194 | 73 | 2855 | 0.10 | PPBV | # | 84 |
| 37) TETRAHYDROFURAN | 3.930 | 72 | 339m | 0.07 | PPBV | | |
| 38) HEXANE | 3.667 | 57 | 1774 | 0.09 | PPBV | | 90 |
| 39) VINYL ACETATE | 3.233 | 86 | 201m | 0.08 | PPBV | | |
| 40) 1,1-DICHLOROETHANE | 3.155 | 63 | 1808 | 0.09 | PPBV | # | 88 |
| 41) METHYL ETHYL KETONE | 3.335 | 72 | 351m | 0.07 | PPBV | | |
| 42) CIS-1,2-DICHLOROETHENE | 3.538 | 96 | 1146 | 0.10 | PPBV | | 99 |
| 43) DIISOPROPYL ETHER | 3.673 | 59 | 517 | 0.09 | PPBV | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 12:14:03 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 45) METHYL ACRYLATE | 3.663 | 55 | 1929 | 0.09 | PPBV | # | 66 |
| 46) CHLOROFORM | 3.686 | 83 | 2328 | 0.10 | PPBV | | 92 |
| 47) 2,4-DIMETHYLPENTANE | 4.194 | 57 | 2171 | 0.10 | PPBV | | 98 |
| 48) 1,1,1-TRICHLOROETHANE | 4.274 | 97 | 2237 | 0.10 | PPBV | | 97 |
| 49) CARBON TETRACHLORIDE | 4.705 | 117 | 2055 | 0.09 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 4.107 | 62 | 1503 | 0.09 | PPBV | # | 100 |
| 51) BENZENE | 4.596 | 78 | 3427 | 0.10 | PPBV | | 98 |
| 53) CYCLOHEXANE | 4.814 | 84 | 1478 | 0.10 | PPBV | | 91 |
| 54) 2,3-DIMETHYLPENTANE | 5.078 | 71 | 694 | 0.09 | PPBV | # | 96 |
| 55) TRICHLOROETHENE | 5.522 | 95 | 1399 | 0.09 | PPBV | | 89 |
| 56) 1,2-DICHLOROPROPANE | 5.277 | 63 | 1360 | 0.10 | PPBV | # | 74 |
| 57) DIBROMOMETHANE | 5.236 | 174 | 1596 | 0.10 | PPBV | | 92 |
| 58) ETHYL ACRYLATE | 5.406 | 55 | 2085 | 0.08 | PPBV | # | 74 |
| 59) BROMODICHLOROMETHANE | 5.461 | 83 | 2192 | 0.09 | PPBV | | 100 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 5984 | 0.10 | PPBV | # | 96 |
| 62) HEPTANE | 5.933 | 43 | 1916 | 0.10 | PPBV | | 92 |
| 63) METHYL METHACRYLATE | 5.837 | 69 | 1025 | 0.09 | PPBV | # | 77 |
| 64) METHYL ISOBUTYL KETONE | 6.593 | 58 | 750 | 0.08 | PPBV | # | 79 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.461 | 75 | 1386 | 0.08 | PPBV | # | 68 |
| 66) TOLUENE | 7.695 | 91 | 4413 | 0.10 | PPBV | | 93 |
| 67) 1,3-DICHLOROPROPANE | 7.756 | 76 | 1971 | 0.10 | PPBV | # | 91 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.155 | 75 | 1319 | 0.08 | PPBV | # | 78 |
| 69) 1,1,2-TRICHLOROETHANE | 7.322 | 83 | 1181 | 0.09 | PPBV | | 95 |
| 70) 2-HEXANONE | 8.293 | 58 | 221m | 0.39 | PPBV | | |
| 71) ETHYL METHACRYLATE | 8.412 | 69 | 1160 | 0.07 | PPBV | # | 84 |
| 72) TETRACHLOROETHENE | 9.454 | 164 | 1751 | 0.10 | PPBV | # | 87 |
| 73) DIBROMOCHLOROMETHANE | 8.239 | 129 | 1909 | 0.08 | PPBV | # | 86 |
| 74) 1,2-DIBROMOETHANE | 8.586 | 107 | 2023 | 0.09 | PPBV | # | 93 |
| 75) OCTANE | 9.589 | 43 | 2397 | 0.09 | PPBV | | 93 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.673 | 131 | 1554 | 0.09 | PPBV | # | 37 |
| 78) CHLOROBENZENE | 10.663 | 112 | 3250 | 0.10 | PPBV | | 93 |
| 79) ETHYLBENZENE | 11.544 | 91 | 4979 | 0.09 | PPBV | | 98 |
| 80) M,P-XYLENE | 11.978 | 91 | 7627m | 0.21 | PPBV | | |
| 81) O-XYLENE | 12.914 | 91 | 3812 | 0.09 | PPBV | | 97 |
| 82) STYRENE | 12.702 | 104 | 2323 | 0.08 | PPBV | | 95 |
| 83) NONANE | 14.026 | 43 | 2527 | 0.10 | PPBV | | 95 |
| 84) BROMOFORM | 11.782 | 173 | 1271 | 0.06 | PPBV | # | 96 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.917 | 83 | 2922 | 0.09 | PPBV | # | 94 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.206 | 75 | 2200 | 0.10 | PPBV | # | 99 |
| 88) ISOPROPYLBENZENE | 14.428 | 120 | 1654 | 0.09 | PPBV | | 90 |
| 89) BROMOBENZENE | 14.313 | 77 | 2650 | 0.09 | PPBV | | 98 |
| 90) 2-CHLOROTOLUENE | 15.451 | 126 | 1358m | 0.09 | PPBV | | |
| 91) N-PROPYLBENZENE | 15.779 | 120 | 1342 | 0.08 | PPBV | # | 62 |
| 92) 4-ETHYLTOLUENE | 16.145 | 105 | 4938 | 0.08 | PPBV | # | 98 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.296 | 105 | 4146 | 0.08 | PPBV | # | 91 |
| 94) ALPHA-METHYLSTYRENE | 16.502 | 118 | 1628 | 0.08 | PPBV | | 96 |
| 95) TERT-BUTYLBENZENE | 16.753 | 134 | 990 | 0.08 | PPBV | | 89 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.759 | 105 | 4251 | 0.08 | PPBV | | 97 |
| 97) BENZYL CHLORIDE | 16.849 | 91 | 1346 | 0.04 | PPBV | # | 60 |
| 98) M-DICHLOROBENZENE | 16.824 | 146 | 3030 | 0.09 | PPBV | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 12:14:03 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 99) | P-DICHLOROBENZENE | 16.907 | 146 | 3245 | 0.09 | PPBV | | 93 |
| 100) | O-DICHLOROBENZENE | 17.203 | 146 | 3018 | 0.09 | PPBV | | 97 |
| 101) | SEC-BUTYLBENZENE | 17.039 | 134 | 1276 | 0.08 | PPBV | | 93 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.148 | 105 | 4165 | 0.08 | PPBV | # | 91 |
| 103) | P-ISOPROPYLTOLUENE | 17.222 | 134 | 1420 | 0.08 | PPBV | | 99 |
| 104) | N-BUTYLBENZENE | 17.566 | 134 | 1266 | 0.08 | PPBV | | 89 |
| 105) | HEXACHLOROETHANE | 17.746 | 117 | 1120 | 0.06 | PPBV | | 91 |
| 106) | HEXACHLOROBUTADIENE | 18.798 | 225 | 2054 | 0.07 | PPBV | # | 1 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.486 | 180 | 1844 | 0.06 | PPBV | | 95 |
| 108) | NAPHTHALENE | 18.531 | 128 | 3704 | 0.05 | PPBV | # | 70 |

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

7.7.13

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
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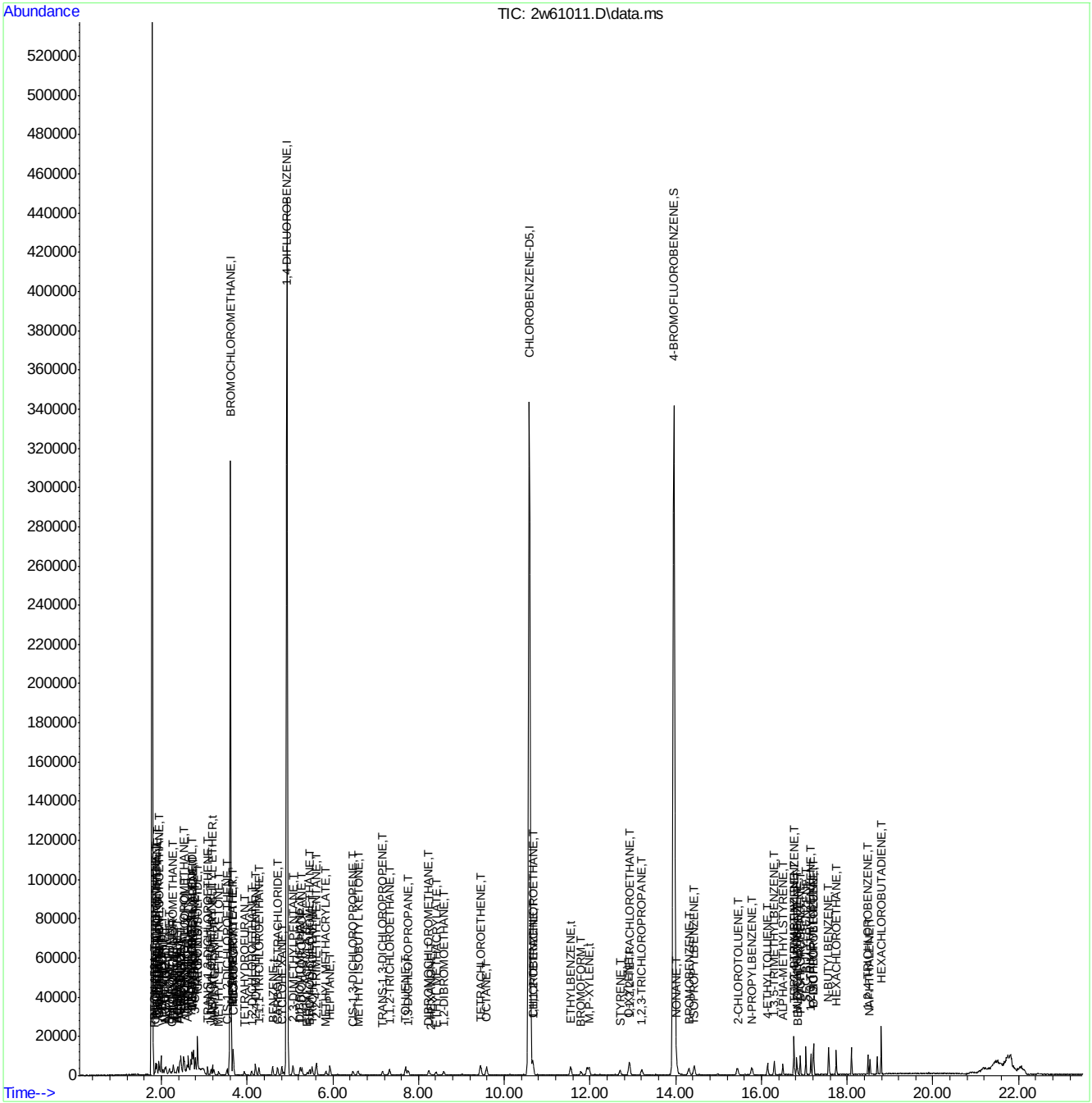
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 12:14:03 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



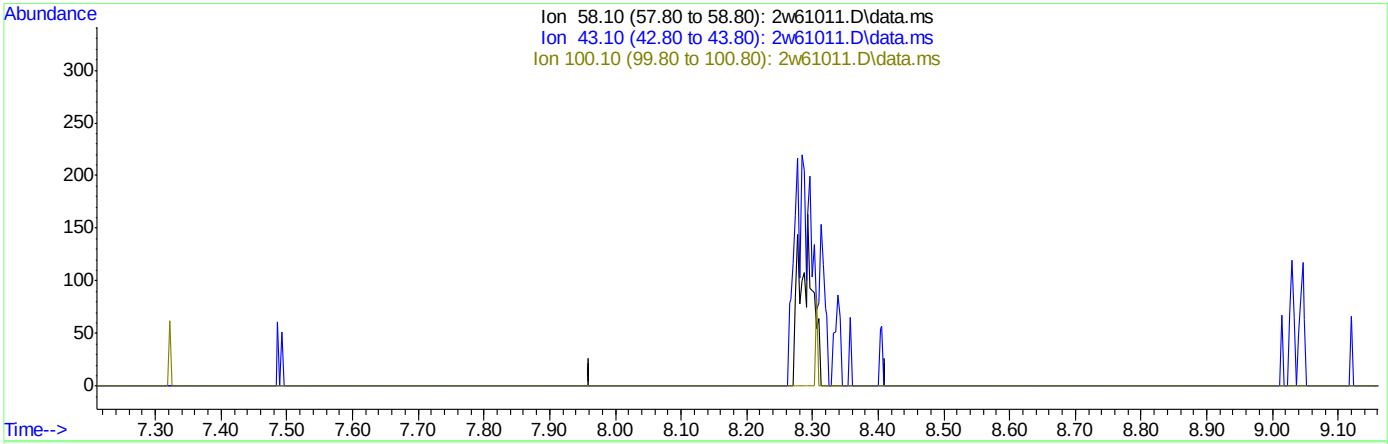
**Sample Number:** V2W2709-IC2709 **Method:** TO-15
**Lab FileID:** 2W61011.D **Analyst approved:** 08/24/22 12:25 Benjamin Kim
**Injection Time:** 08/19/22 11:55 **Supervisor approved:** 08/24/22 14:42 Kanya Veerawat

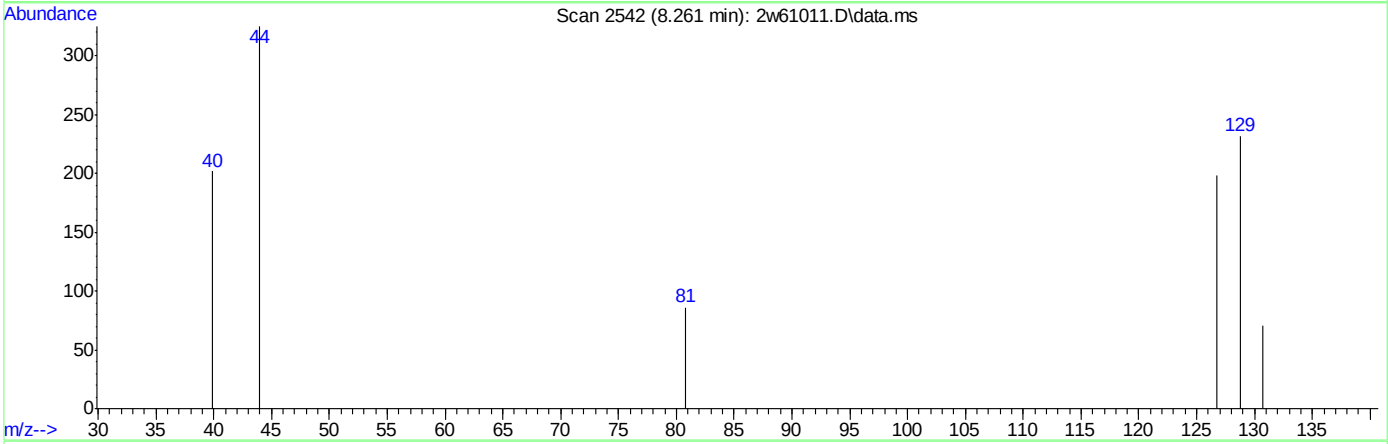
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Chlorodifluoromethane | 75-45-6 | | 1.86 | Poor instrument integration |
| Chloromethane | 74-87-3 | | 1.95 | Poor instrument integration |
| Acrolein | 107-02-8 | | 2.42 | Poor instrument integration |
| Vinyl Acetate | 108-05-4 | | 3.23 | Poor instrument integration |
| Methyl ethyl ketone | 78-93-3 | | 3.34 | Poor instrument integration |
| Tetrahydrofuran | 109-99-9 | | 3.93 | Poor instrument integration |
| 2-Hexanone | 591-78-6 | | 8.29 | Poor instrument integration |
| m,p-Xylene | | | 11.98 | Poor instrument integration |
| 2-Chlorotoluene | 95-49-8 | | 15.45 | Poor instrument integration |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(70) 2-HEXANONE (T)

8.261min (-8.261) 0.00PPBV

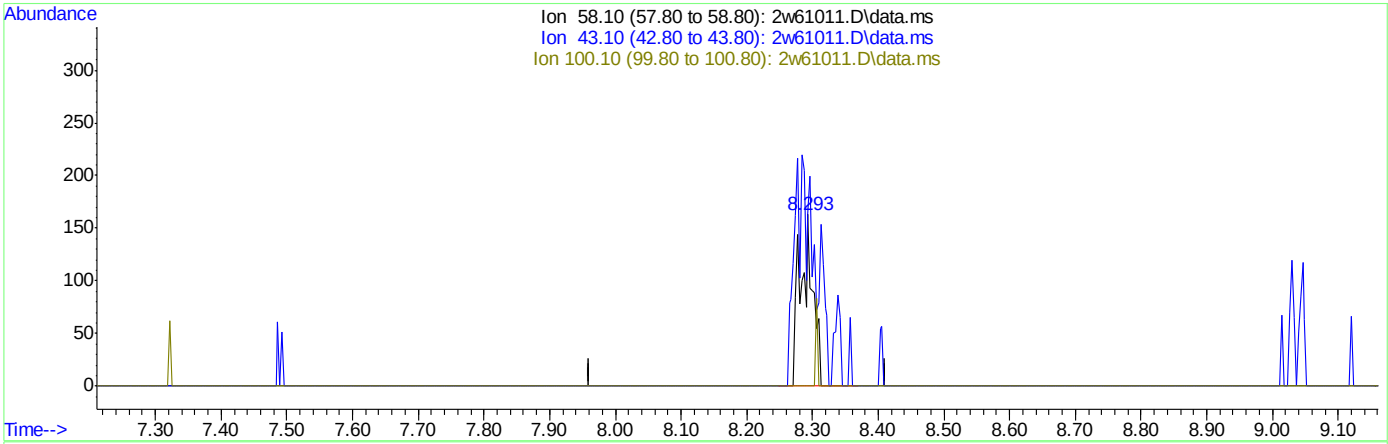
response 0

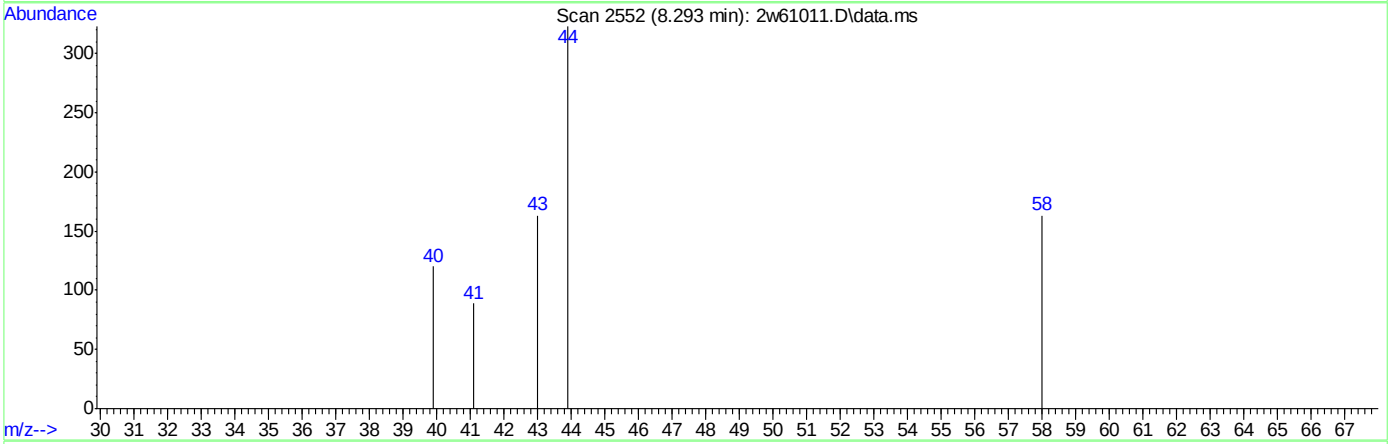
| Ion | Exp% | Act% |
|---|---|---|
| 58.10 | 100 | 0.00 |
| 43.10 | 8.30 | 0.00# |
| 100.10 | 1.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(70) 2-HEXANONE (T)

8.293min (+0.032) 0.39PPBV m

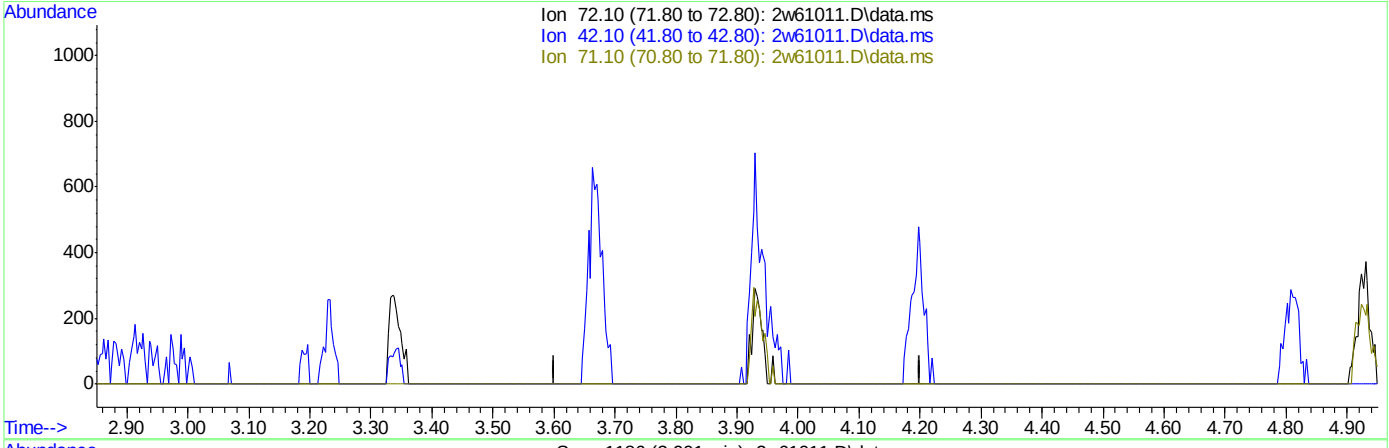
response 221

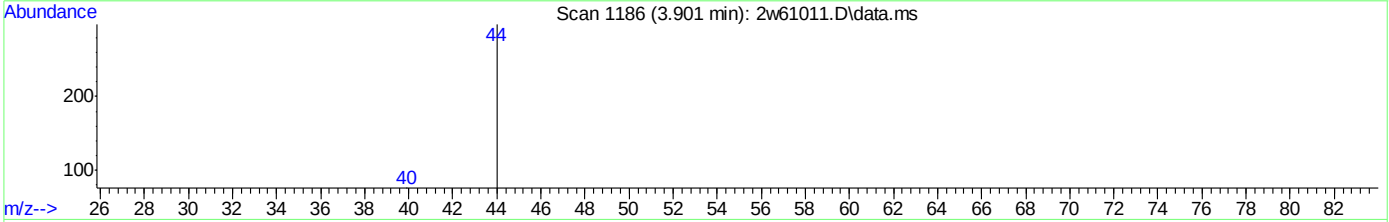
| Ion | Exp% | Act% |
|---|---|---|
| 58.10 | 100 | 100 |
| 43.10 | 8.30 | 0.00# |
| 100.10 | 1.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |

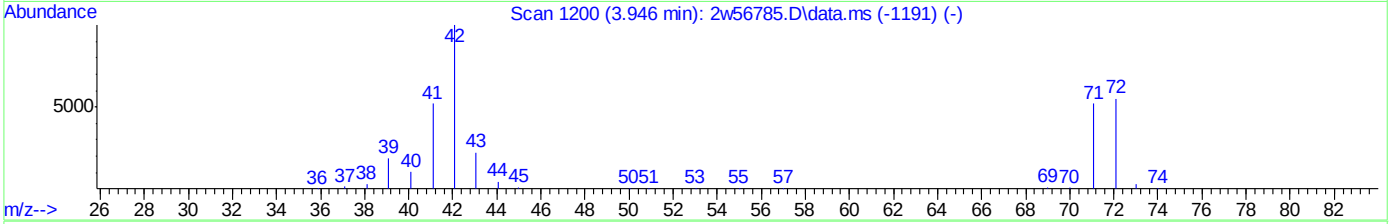
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(37) TETRAHYDROFURAN (T)

3.901min (-3.901) 0.00PPBV

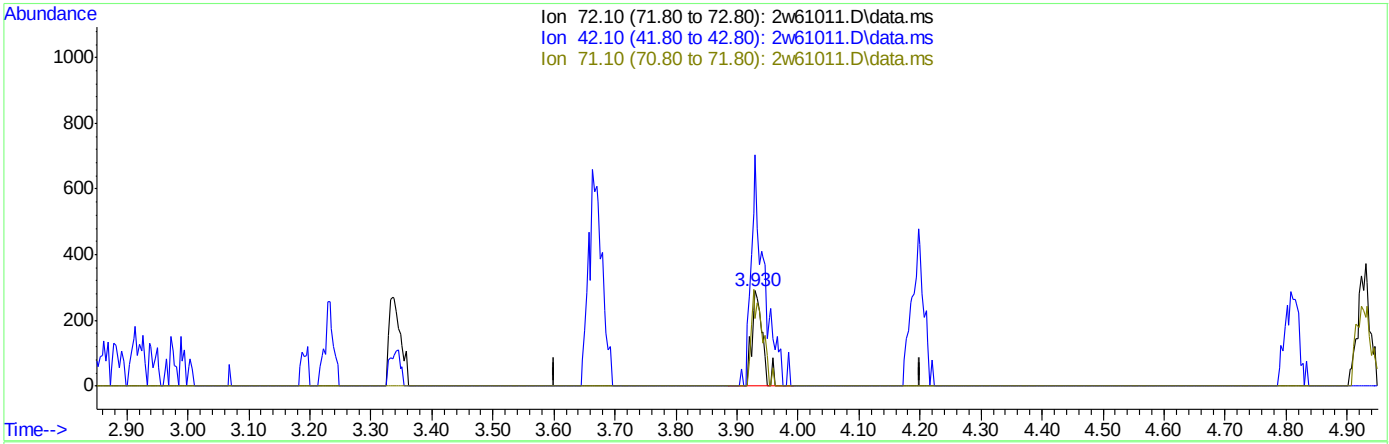
response 0

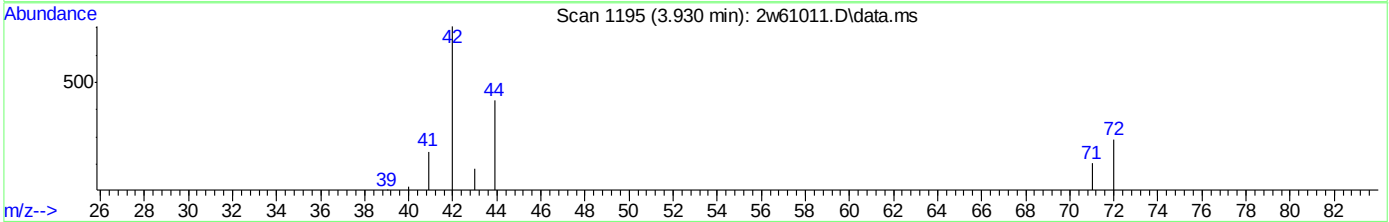
| Ion | Exp% | Act% |
|---|---|---|
| 72.10 | 100 | 0.00 |
| 42.10 | 219.70 | 0.00# |
| 71.10 | 92.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |

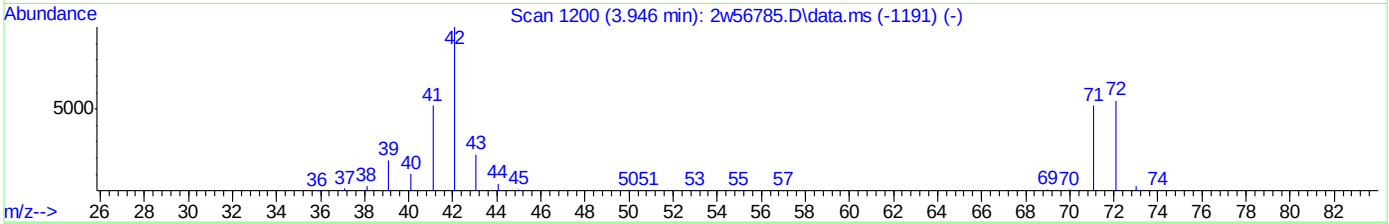
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(37) TETRAHYDROFURAN (T)

3.930min (+0.029) 0.07PPBV m

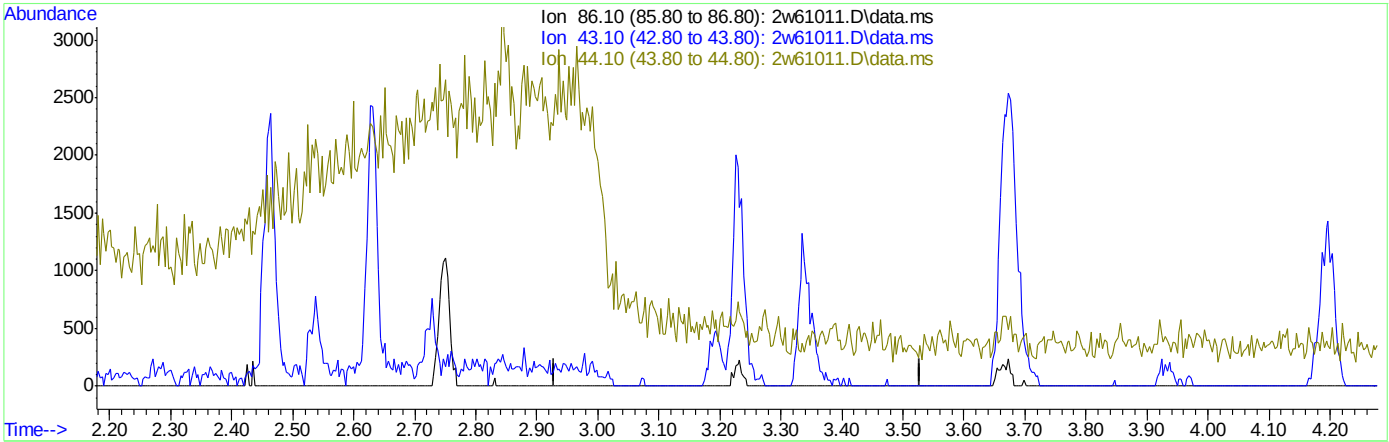
response 339

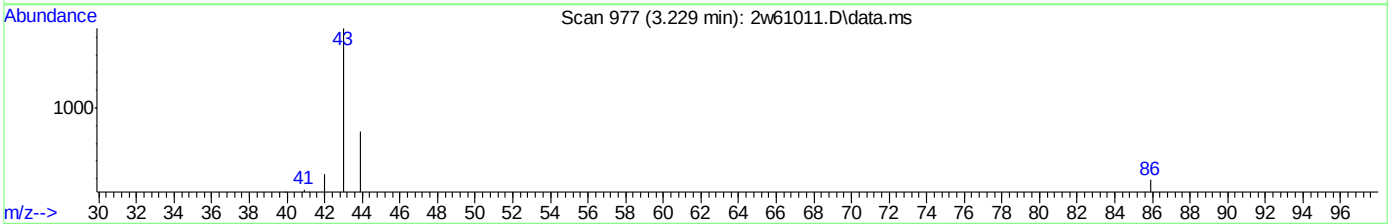
| Ion | Exp% | Act% |
|---|---|---|
| 72.10 | 100 | 100 |
| 42.10 | 219.70 | 0.00# |
| 71.10 | 92.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |

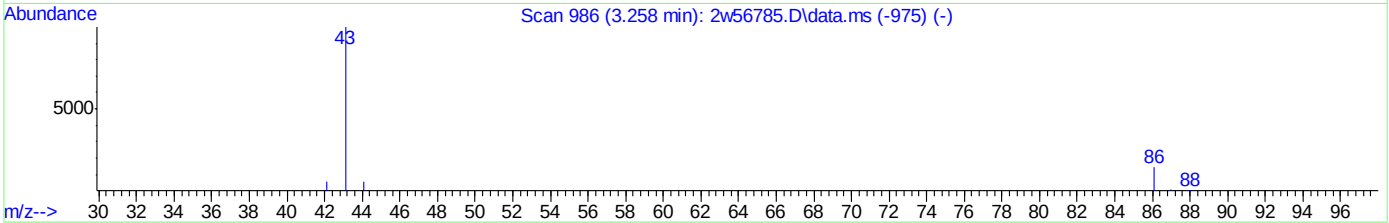
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(39) VINYL ACETATE (T)

3.229min (-3.229) 0.00PPBV

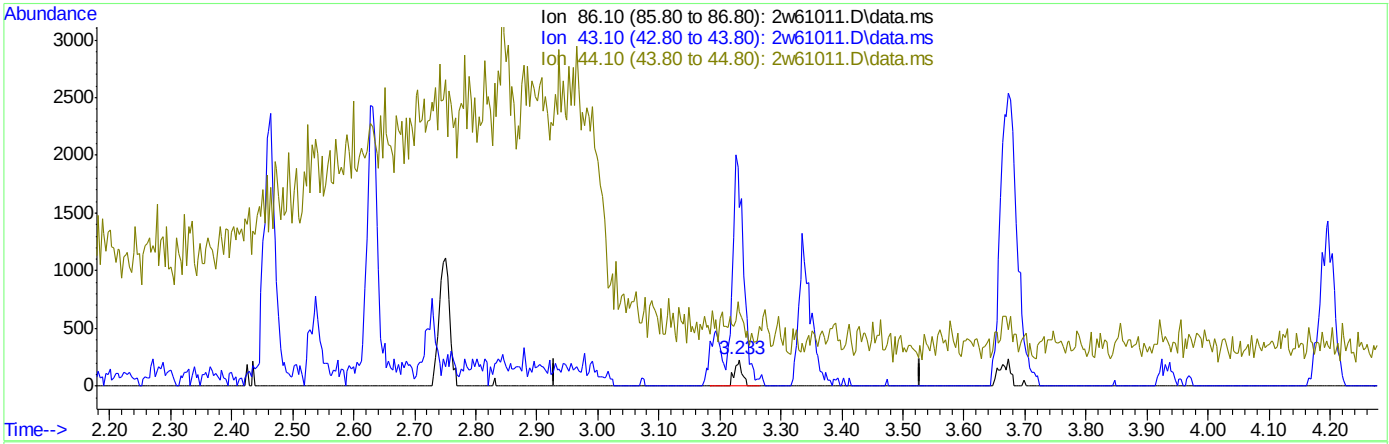
response 0

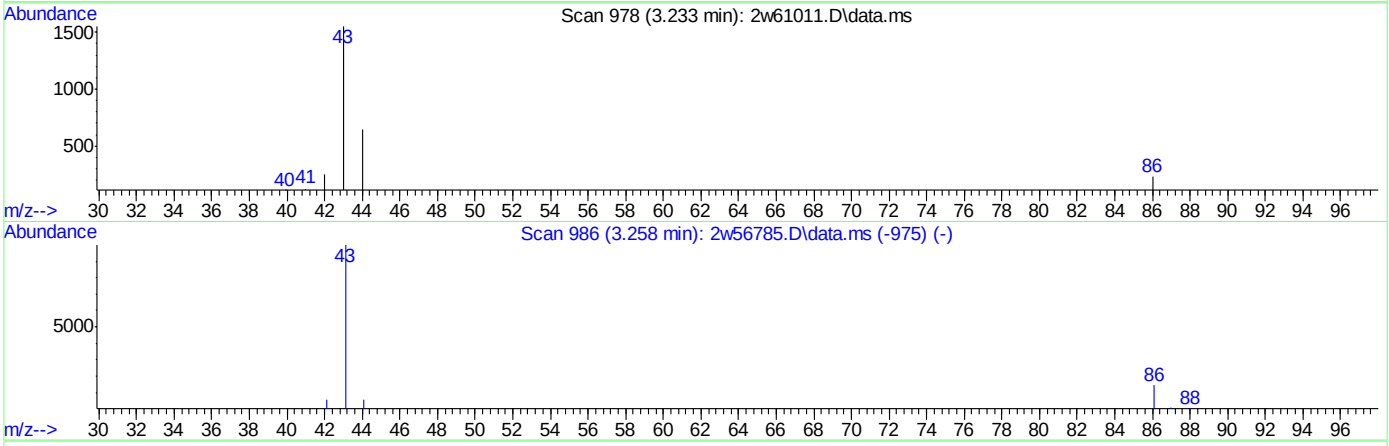
| Ion | Exp% | Act% |
|---|---|---|
| 86.10 | 100 | 0.00 |
| 43.10 | 958.60 | 0.00# |
| 44.10 | 52.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration







TIC: 2w61011.D\data.ms

(39) VINYL ACETATE (T)

3.233min (+0.004) 0.08PPBV m

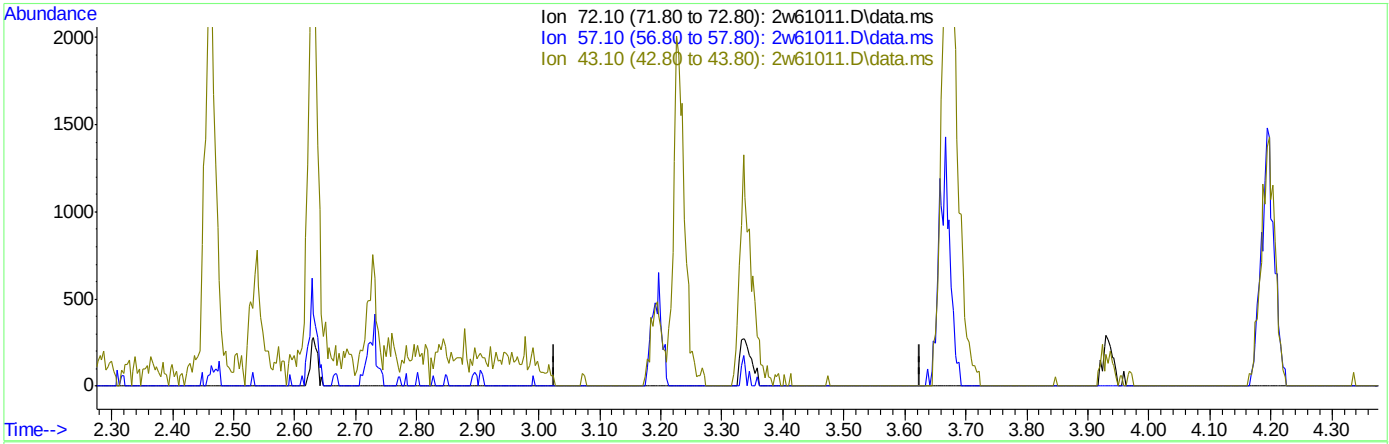
response 201

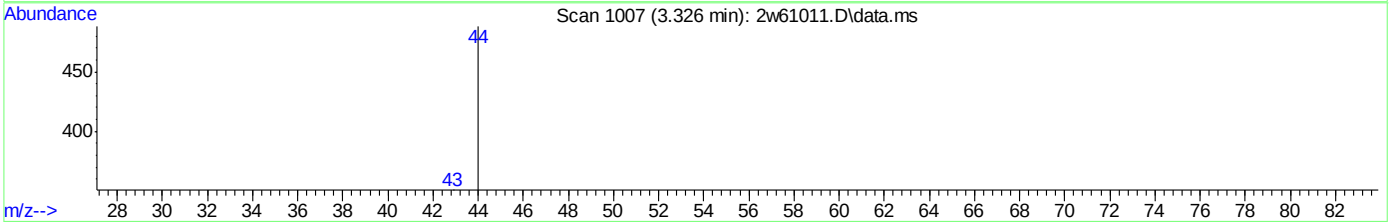
| Ion | Exp% | Act% |
|---|---|---|
| 86.10 | 100 | 100 |
| 43.10 | 958.60 | 0.00# |
| 44.10 | 52.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |

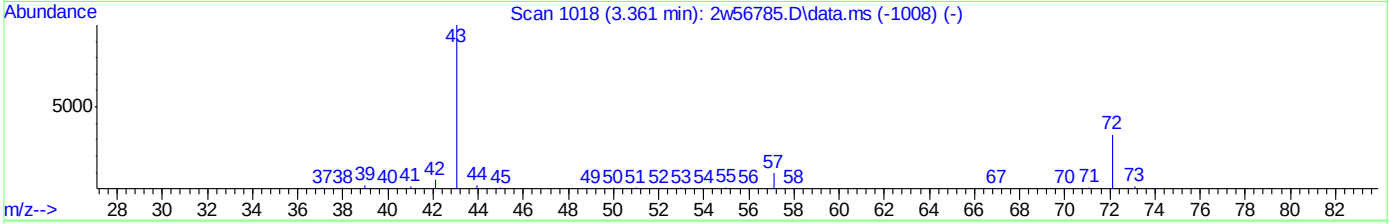
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(41) METHYL ETHYL KETONE (T)

3.326min (-3.326) 0.00PPBV

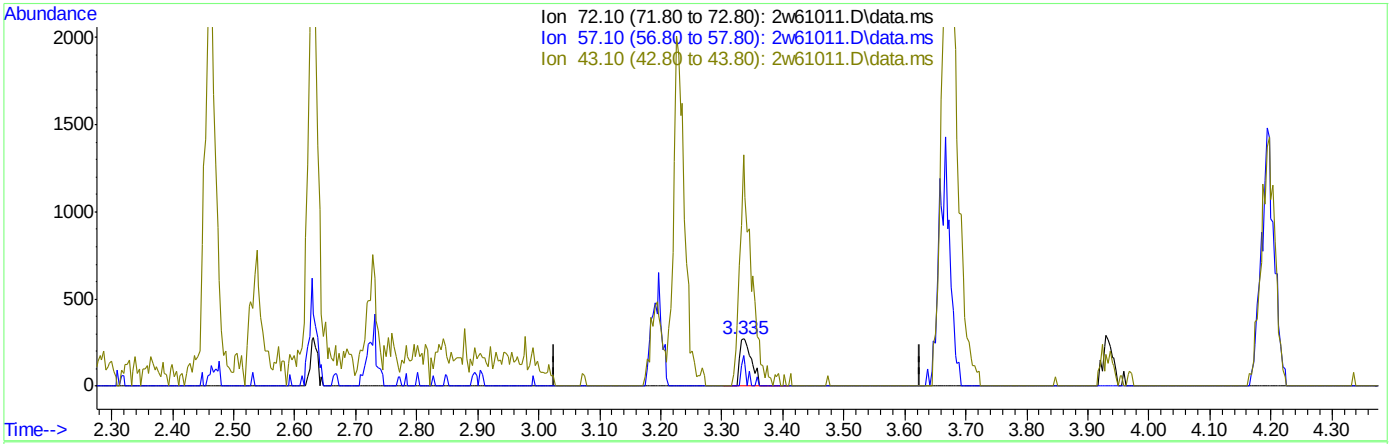
response 0

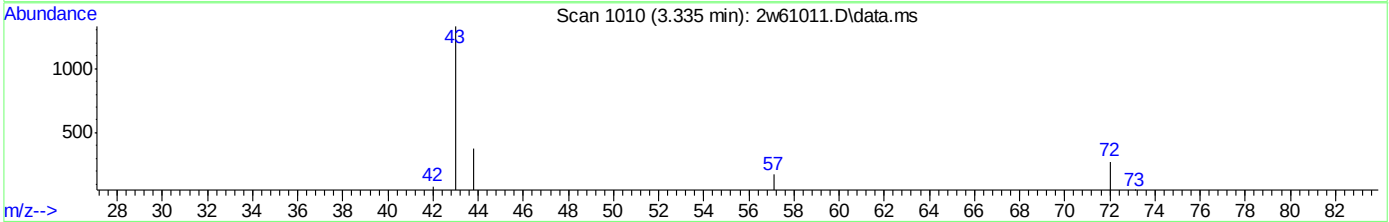
| Ion | Exp% | Act% |
|---|---|---|
| 72.10 | 100 | 0.00 |
| 57.10 | 36.40 | 0.00# |
| 43.10 | 401.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |

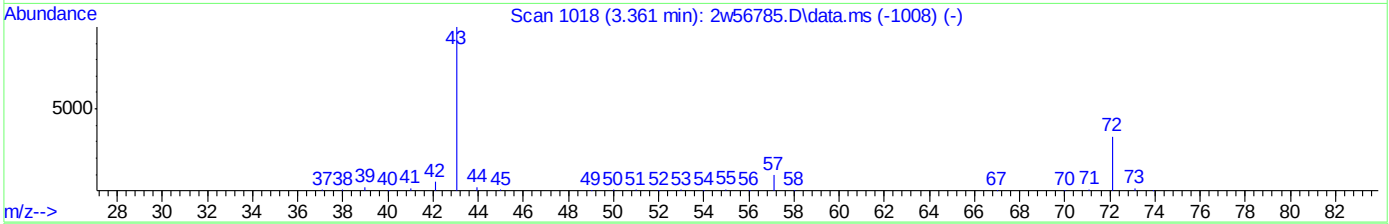
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(41) METHYL ETHYL KETONE (T)

3.335min (+0.009) 0.07PPBV m

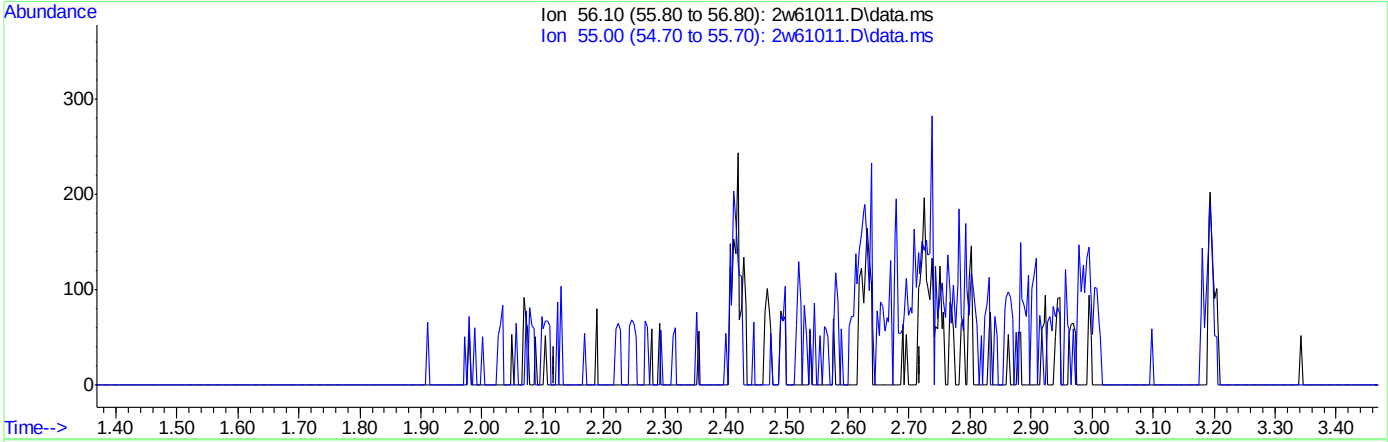
response 351

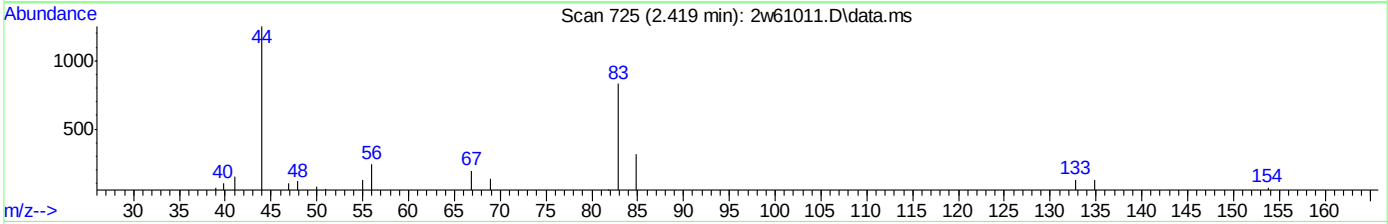
| Ion | Exp% | Act% |
|---|---|---|
| 72.10 | 100 | 100 |
| 57.10 | 36.40 | 0.00# |
| 43.10 | 401.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |

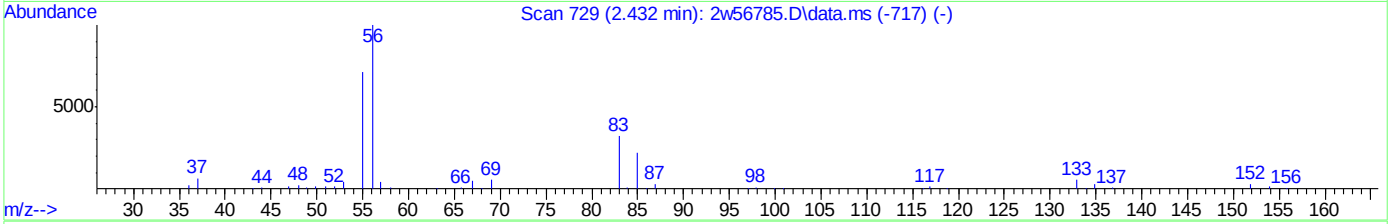
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(18) ACROLEIN (T)

2.419min (-2.419) 0.00PPBV

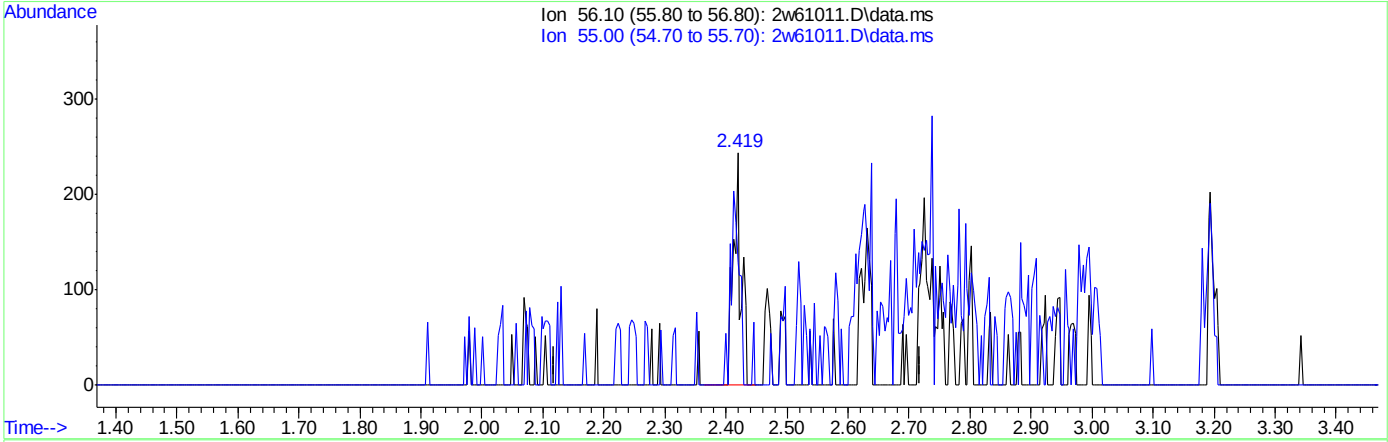
response 0

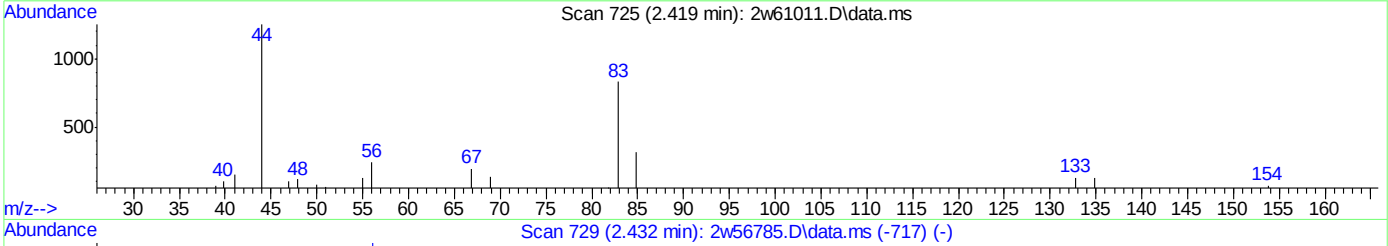
| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 0.00 |
| 55.00 | 71.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

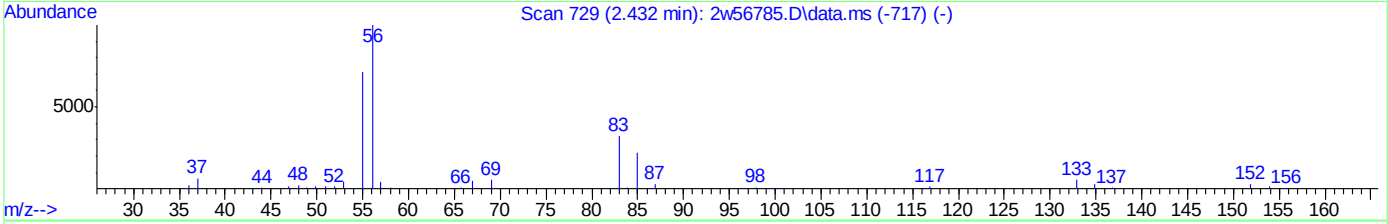
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(18) ACROLEIN (T)

2.419min (+0.000) 0.05PPBV m

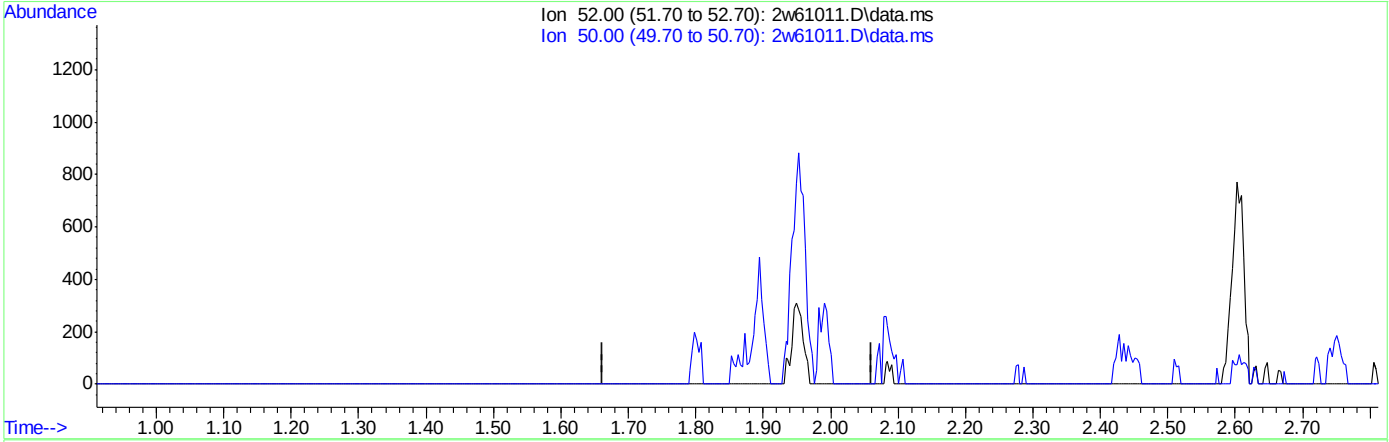
response 214

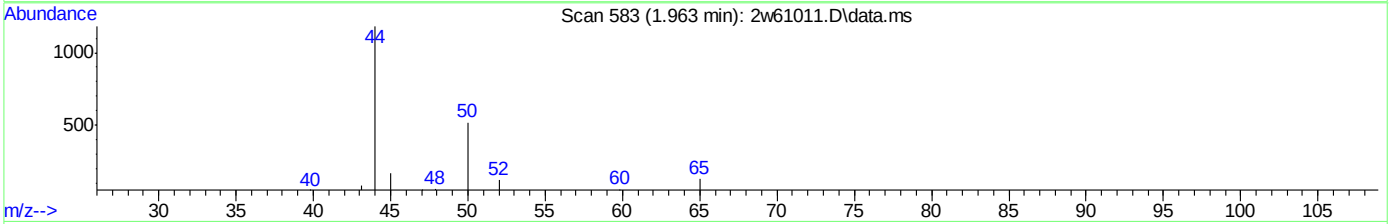
| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 100 |
| 55.00 | 71.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

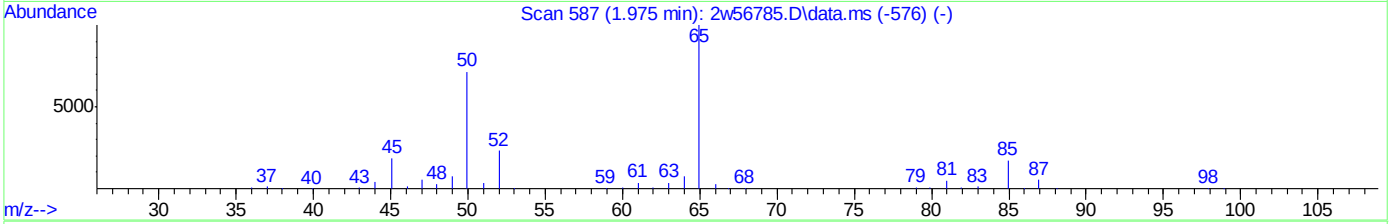
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(10) CHLOROMETHANE (T)

1.962min (-1.962) 0.00PPBV

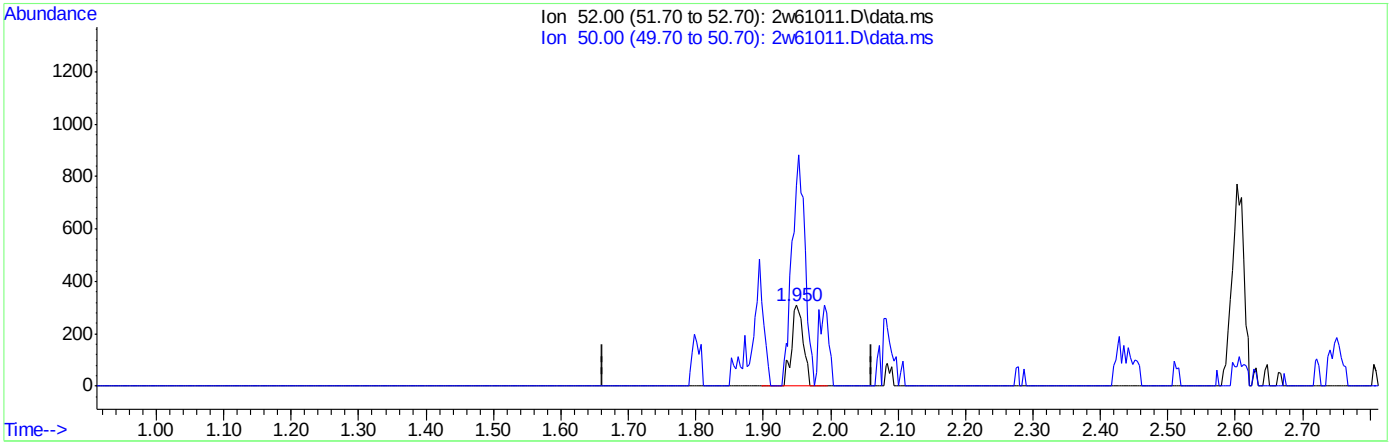
response 0

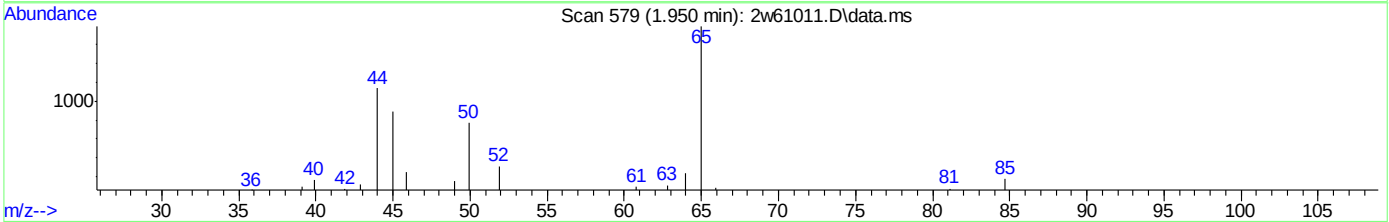
| Ion | Exp% | Act% |
|---|---|---|
| 52.00 | 100 | 0.00 |
| 50.00 | 309.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

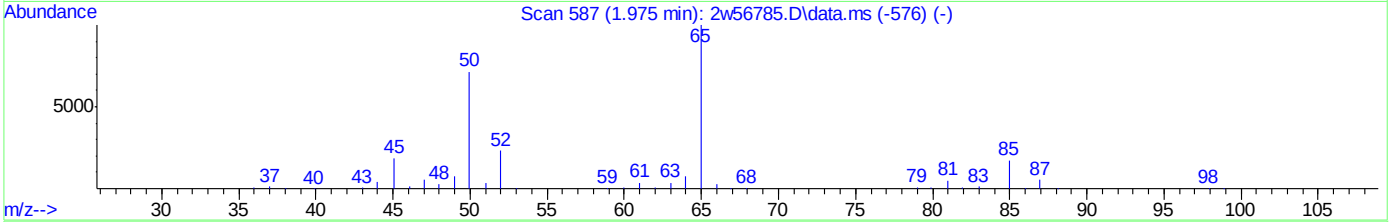
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(10) CHLOROMETHANE (T)

1.950min (-0.012) 0.11PPBV m

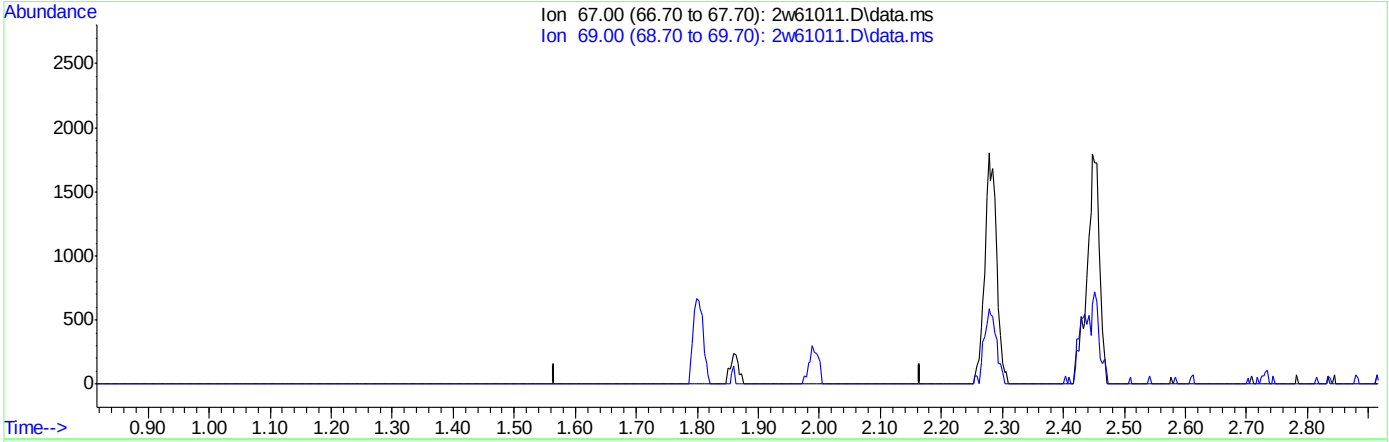
response 371

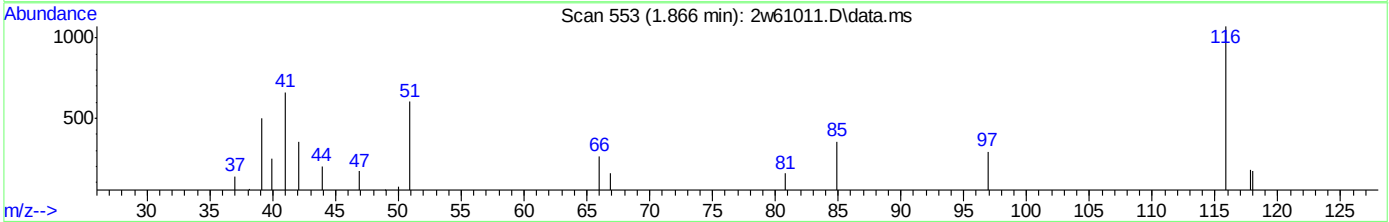
| Ion | Exp% | Act% |
|---|---|---|
| 52.00 | 100 | 100 |
| 50.00 | 309.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

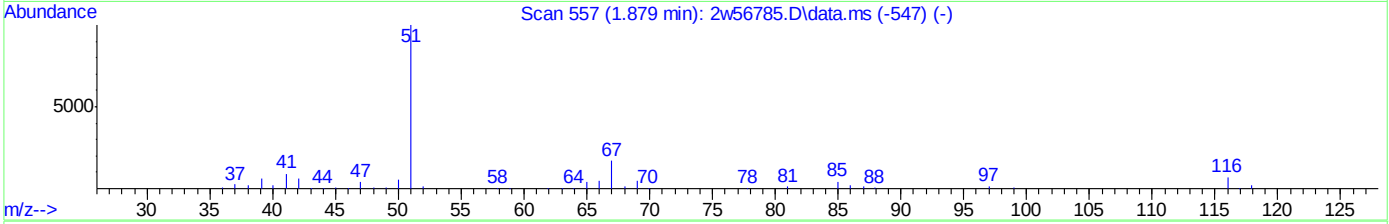
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.866min (-1.866) 0.00PPBV

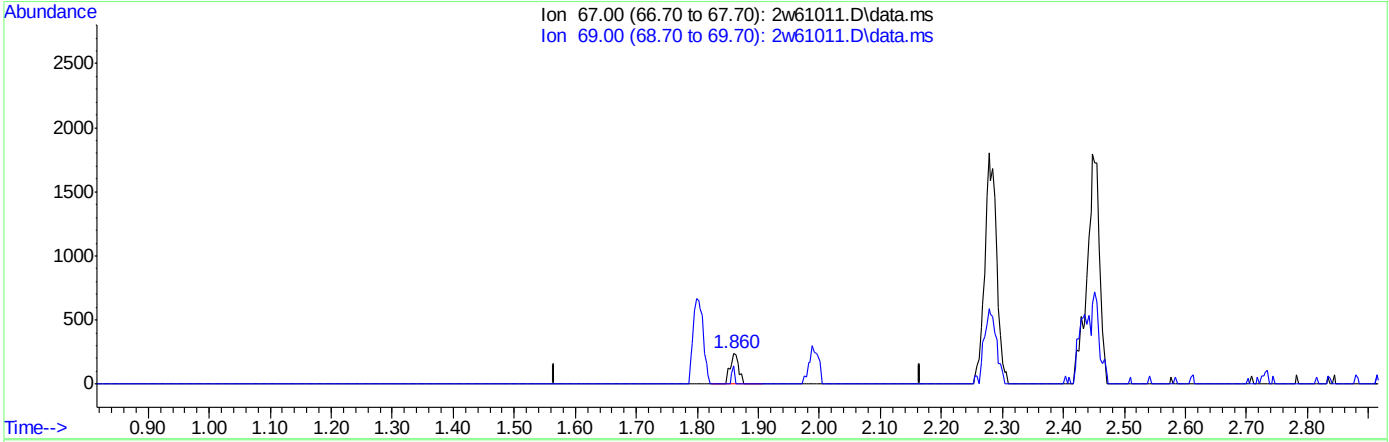
response 0

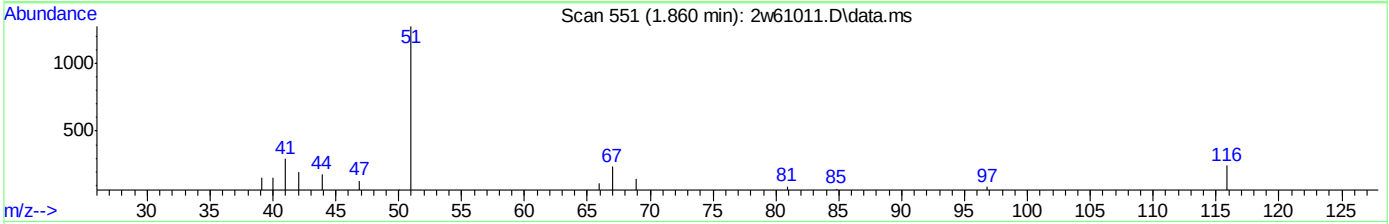
| Ion | Exp% | Act% |
|---|---|---|
| 67.00 | 100 | 0.00 |
| 69.00 | 34.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

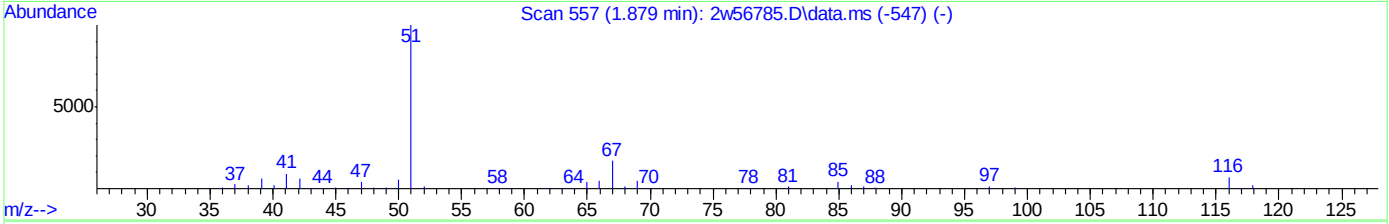
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.860min (-0.006) 0.09PPBV m

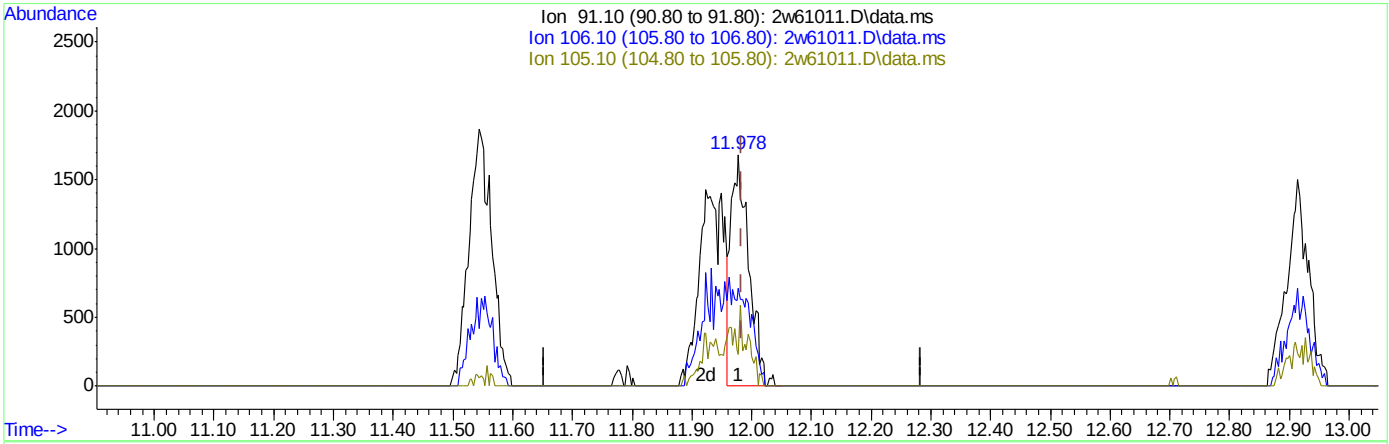
response 226

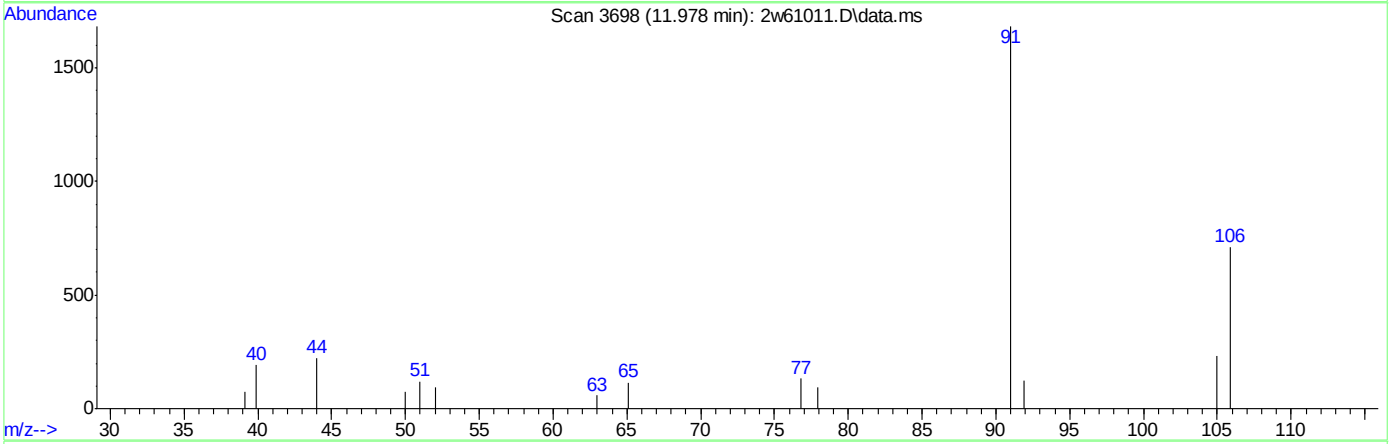
| Ion | Exp% | Act% |
|---|---|---|
| 67.00 | 100 | 100 |
| 69.00 | 34.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:49:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(80) M,P-XYLENE (t)

11.978min (-0.006) 0.10PPBV

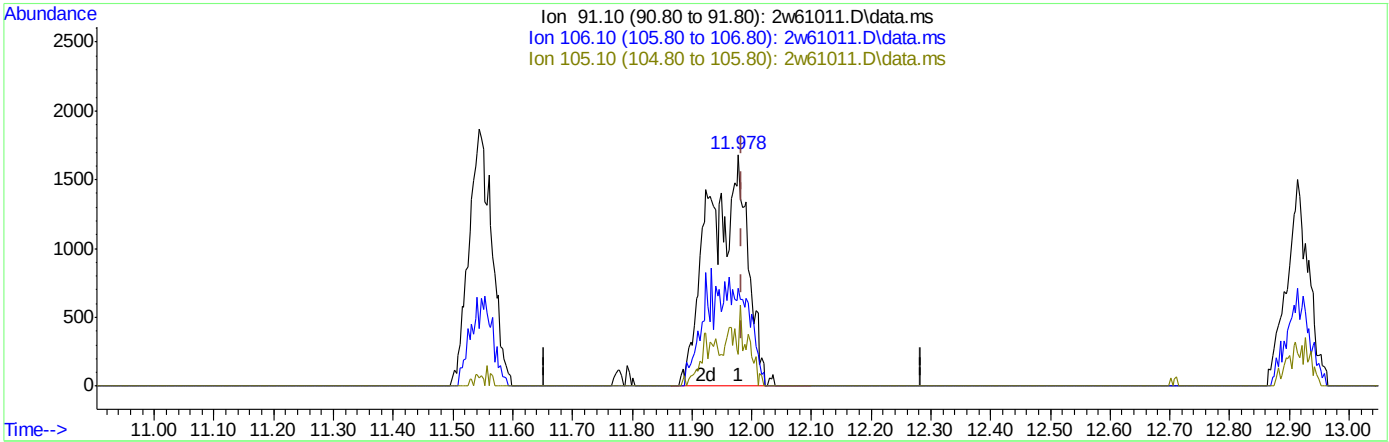
response 3518

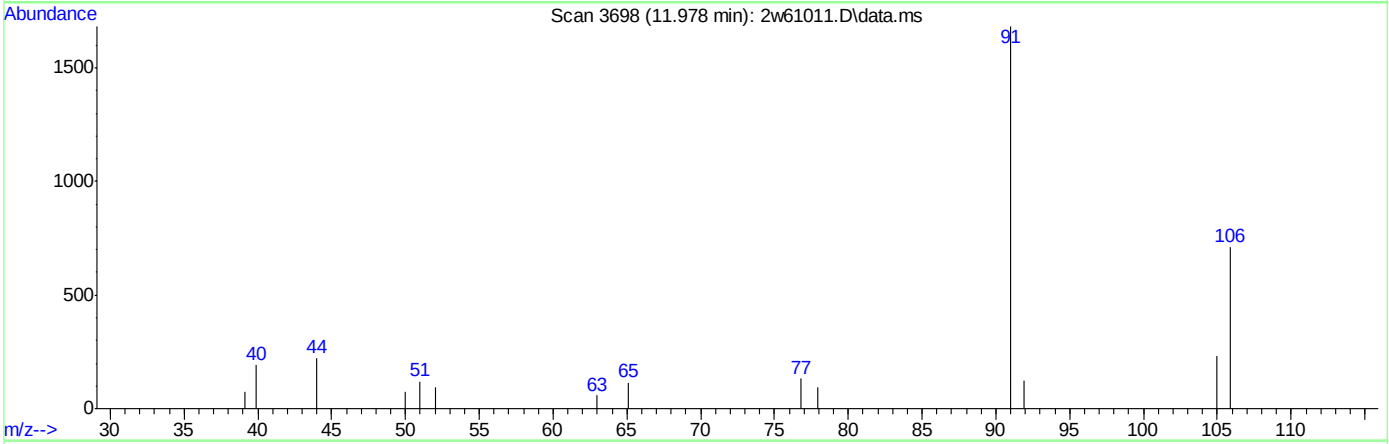
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 23.00 | 44.03# |
| 105.10 | 10.90 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:49:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(80) M,P-XYLENE (t)

11.978min (-0.006) 0.21PPBV m

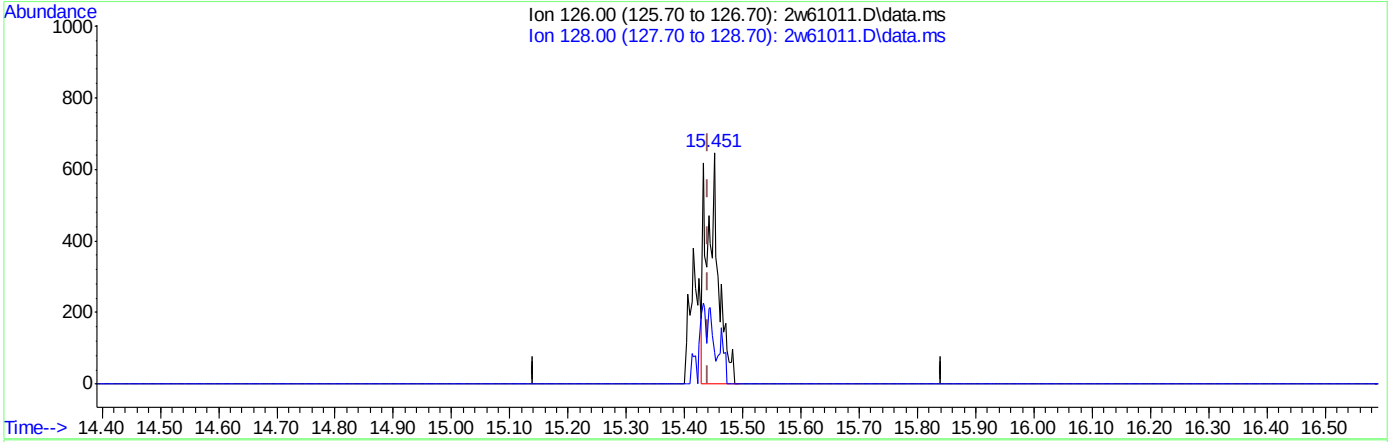
response 7627

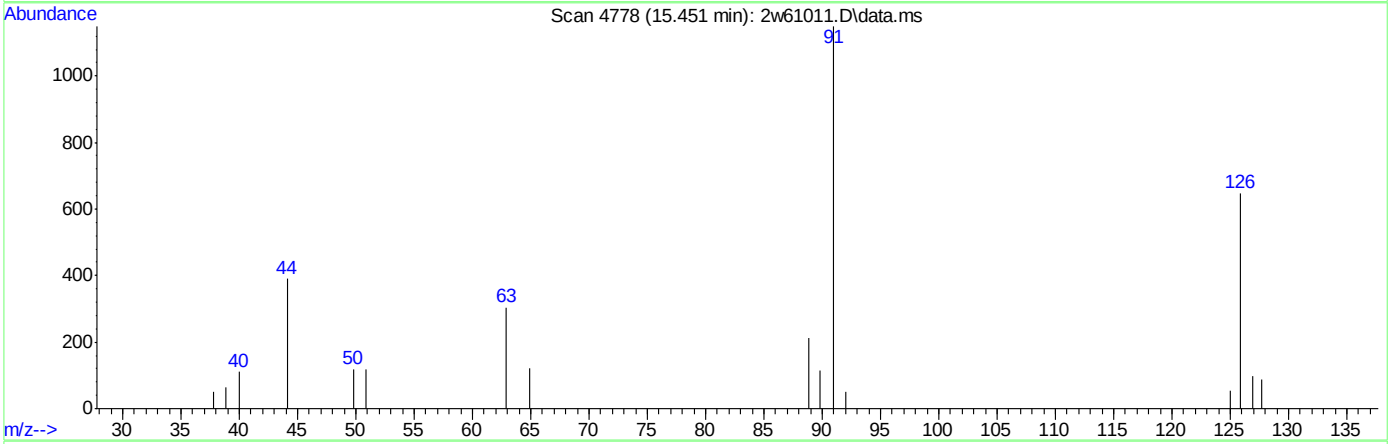
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 23.00 | 20.31 |
| 105.10 | 10.90 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:49:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(90) 2-CHLOROTOLUENE (T)

15.451min (+0.010) 0.06PPBV

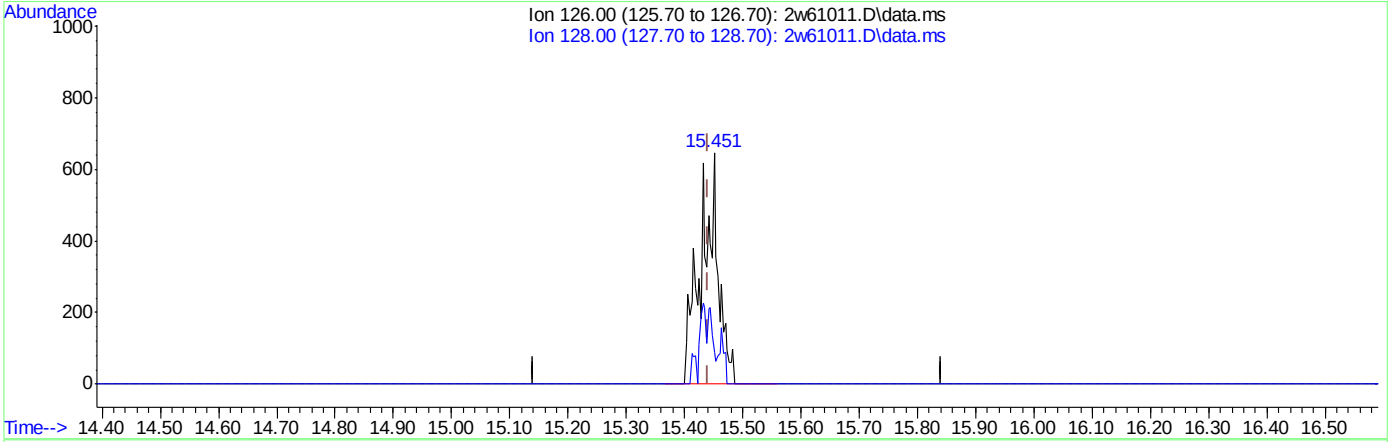
response 945

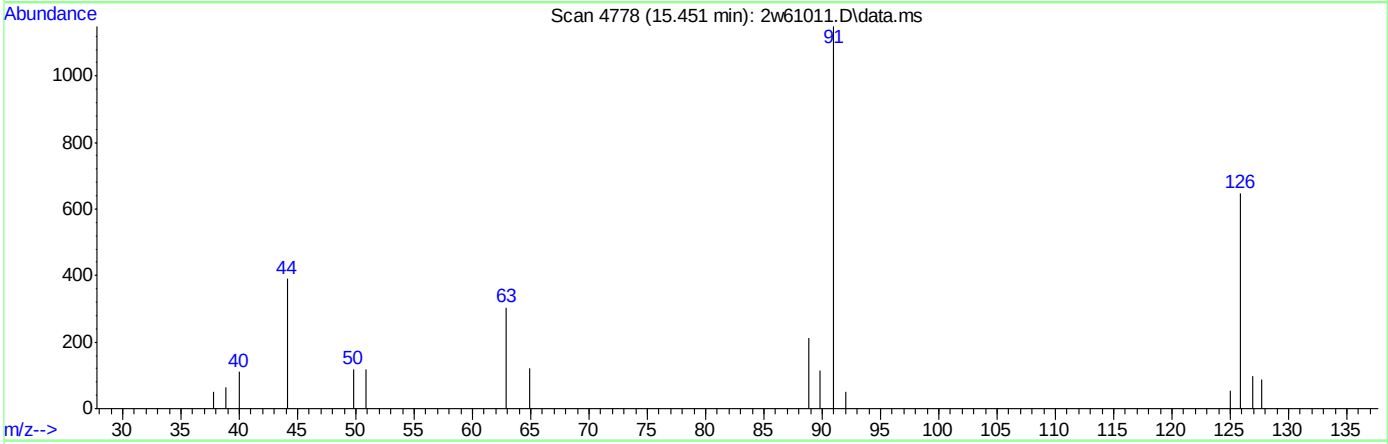
| Ion | Exp% | Act% |
|---|---|---|
| 126.00 | 100 | 100 |
| 128.00 | 32.40 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:49:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration




TIC: 2w61011.D\data.ms

(90) 2-CHLOROTOLUENE (T)

15.451min (+0.010) 0.09PPBV m

response 1358

| Ion | Exp% | Act% |
|---|---|---|
| 126.00 | 100 | 100 |
| 128.00 | 32.40 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/24/22 14:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:41:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.611 | 128 | 64509 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 353558 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 315511 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 204068 | 9.70 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.843 | 65 | 1064 | 0.19 | PPBV | # | 48 |
| 4) CHLORODIFLUOROMETHANE | 1.862 | 67 | 468m | 0.19 | PPBV | | |
| 5) CHLOROTRIFLUOROETHENE | 1.878 | 116 | 2747 | 0.19 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.898 | 85 | 6218 | 0.20 | PPBV | # | 63 |
| 7) PROPYLENE | 1.875 | 41 | 1247 | 0.21 | PPBV | | 97 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.949 | 65 | 4676 | 0.19 | PPBV | # | 61 |
| 9) FREON 114 | 1.994 | 85 | 5721 | 0.20 | PPBV | | 98 |
| 10) CHLOROMETHANE | 1.952 | 52 | 709 | 0.22 | PPBV | | 94 |
| 11) VINYL CHLORIDE | 2.039 | 62 | 2175 | 0.19 | PPBV | # | 92 |
| 12) 1,3-BUTADIENE | 2.084 | 54 | 1768 | 0.20 | PPBV | | 91 |
| 13) N-BUTANE | 2.107 | 43 | 3294 | 0.23 | PPBV | # | 97 |
| 14) BROMOMETHANE | 2.193 | 94 | 2081 | 0.21 | PPBV | # | 95 |
| 15) CHLOROETHANE | 2.255 | 64 | 1105 | 0.18 | PPBV | # | 58 |
| 16) DICHLOROFLUOROMETHANE | 2.284 | 67 | 4766 | 0.20 | PPBV | | 98 |
| 17) ACETONITRILE | 2.374 | 41 | 1928 | 0.22 | PPBV | # | 80 |
| 18) ACROLEIN | 2.412 | 56 | 435m | 0.12 | PPBV | | |
| 19) FREON 123 | 2.435 | 83 | 5136 | 0.19 | PPBV | | 98 |
| 20) FREON 123A | 2.451 | 117 | 2873 | 0.19 | PPBV | | 91 |
| 21) TRICHLOROFLUOROMETHANE | 2.521 | 101 | 6324 | 0.19 | PPBV | # | 1 |
| 22) ISOPROPYL ALCOHOL | 2.534 | 45 | 5508 | 0.21 | PPBV | # | 97 |
| 23) ACETONE | 2.467 | 58 | 2320 | 0.27 | PPBV | | 77 |
| 24) PENTANE | 2.631 | 42 | 3176 | 0.22 | PPBV | | 93 |
| 25) IODOMETHANE | 2.685 | 142 | 6326 | 0.20 | PPBV | | 97 |
| 26) 1,1-DICHLOROETHYLENE | 2.711 | 96 | 2524 | 0.20 | PPBV | | 99 |
| 27) CARBON DISULFIDE | 2.846 | 76 | 7009 | 0.19 | PPBV | # | 81 |
| 28) ETHANOL | 2.287 | 45 | 1342 | 0.26 | PPBV | # | 41 |
| 29) BROMOETHENE | 2.380 | 106 | 2030 | 0.19 | PPBV | # | 100 |
| 30) ACRYLONITRILE | 2.599 | 52 | 2087 | 0.20 | PPBV | | 99 |
| 31) METHYLENE CHLORIDE | 2.747 | 84 | 3521 | 0.27 | PPBV | | 95 |
| 32) 3-CHLOROPROPENE | 2.785 | 76 | 1417 | 0.21 | PPBV | # | 79 |
| 33) FREON 113 | 2.843 | 151 | 4105 | 0.19 | PPBV | | 95 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 2132 | 0.20 | PPBV | | 98 |
| 35) TERTIARY BUTYL ALCOHOL | 2.721 | 59 | 6767 | 0.21 | PPBV | | 95 |
| 36) METHYL TERTIARY BUTYL ... | 3.190 | 73 | 5366 | 0.20 | PPBV | # | 84 |
| 37) TETRAHYDROFURAN | 3.933 | 72 | 916 | 0.19 | PPBV | | 93 |
| 38) HEXANE | 3.663 | 57 | 3493 | 0.19 | PPBV | | 96 |
| 39) VINYL ACETATE | 3.235 | 86 | 426m | 0.16 | PPBV | | |
| 40) 1,1-DICHLOROETHANE | 3.155 | 63 | 3963 | 0.21 | PPBV | # | 88 |
| 41) METHYL ETHYL KETONE | 3.338 | 72 | 914 | 0.19 | PPBV | # | 92 |
| 42) CIS-1,2-DICHLOROETHENE | 3.531 | 96 | 2323 | 0.20 | PPBV | | 94 |
| 43) DIISOPROPYL ETHER | 3.666 | 59 | 1027 | 0.20 | PPBV | | 91 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:41:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.673 | 61 | 647 | 0.18 | PPBV | # | 68 |
| 45) METHYL ACRYLATE | 3.666 | 55 | 3643 | 0.17 | PPBV | # | 91 |
| 46) CHLOROFORM | 3.682 | 83 | 4521 | 0.20 | PPBV | | 94 |
| 47) 2,4-DIMETHYLPENTANE | 4.197 | 57 | 4425 | 0.20 | PPBV | | 98 |
| 48) 1,1,1-TRICHLOROETHANE | 4.280 | 97 | 4515 | 0.20 | PPBV | | 100 |
| 49) CARBON TETRACHLORIDE | 4.711 | 117 | 4093 | 0.18 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 4.107 | 62 | 3092 | 0.19 | PPBV | # | 100 |
| 51) BENZENE | 4.599 | 78 | 6872 | 0.21 | PPBV | | 97 |
| 53) CYCLOHEXANE | 4.808 | 84 | 2995 | 0.20 | PPBV | | 97 |
| 54) 2,3-DIMETHYLPENTANE | 5.068 | 71 | 1389 | 0.19 | PPBV | # | 97 |
| 55) TRICHLOROETHENE | 5.521 | 95 | 2855 | 0.18 | PPBV | | 95 |
| 56) 1,2-DICHLOROPROPANE | 5.283 | 63 | 2647 | 0.20 | PPBV | | 98 |
| 57) DIBROMOMETHANE | 5.238 | 174 | 3143 | 0.20 | PPBV | | 98 |
| 58) ETHYL ACRYLATE | 5.399 | 55 | 4024 | 0.17 | PPBV | # | 74 |
| 59) BROMODICHLOROMETHANE | 5.460 | 83 | 4359 | 0.18 | PPBV | | 98 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.611 | 57 | 11990 | 0.20 | PPBV | | 99 |
| 61) 1,4-DIOXANE | 5.582 | 88 | 1216 | 0.17 | PPBV | # | 74 |
| 62) HEPTANE | 5.926 | 43 | 3821 | 0.21 | PPBV | | 96 |
| 63) METHYL METHACRYLATE | 5.833 | 69 | 1829 | 0.17 | PPBV | | 92 |
| 64) METHYL ISOBUTYL KETONE | 6.579 | 58 | 1468 | 0.16 | PPBV | # | 91 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.470 | 75 | 3039 | 0.17 | PPBV | | 92 |
| 66) TOLUENE | 7.698 | 91 | 7872 | 0.19 | PPBV | | 98 |
| 67) 1,3-DICHLOROPROPANE | 7.750 | 76 | 3769 | 0.19 | PPBV | # | 91 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.164 | 75 | 2315 | 0.15 | PPBV | | 92 |
| 69) 1,1,2-TRICHLOROETHANE | 7.325 | 83 | 2304 | 0.18 | PPBV | | 96 |
| 70) 2-HEXANONE | 8.290 | 58 | 532 | 0.06 | PPBV | # | 1 |
| 71) ETHYL METHACRYLATE | 8.399 | 69 | 2146 | 0.14 | PPBV | # | 77 |
| 72) TETRACHLOROETHENE | 9.447 | 164 | 3504 | 0.20 | PPBV | | 98 |
| 73) DIBROMOCHLOROMETHANE | 8.229 | 129 | 3734 | 0.16 | PPBV | | 98 |
| 74) 1,2-DIBROMOETHANE | 8.582 | 107 | 4009 | 0.18 | PPBV | # | 97 |
| 75) OCTANE | 9.595 | 43 | 4808 | 0.19 | PPBV | | 98 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.669 | 131 | 2959 | 0.18 | PPBV | | 99 |
| 78) CHLOROBENZENE | 10.656 | 112 | 6633 | 0.20 | PPBV | | 95 |
| 79) ETHYLBENZENE | 11.550 | 91 | 9979 | 0.18 | PPBV | | 98 |
| 80) M,P-XYLENE | 11.984 | 91 | 14963m | 0.36 | PPBV | | |
| 81) O-XYLENE | 12.913 | 91 | 7941 | 0.19 | PPBV | | 93 |
| 82) STYRENE | 12.704 | 104 | 4915 | 0.16 | PPBV | | 99 |
| 83) NONANE | 14.029 | 43 | 4867 | 0.19 | PPBV | | 94 |
| 84) BROMOFORM | 11.788 | 173 | 2475 | 0.13 | PPBV | # | 88 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.923 | 83 | 5839 | 0.19 | PPBV | # | 95 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.216 | 75 | 4250 | 0.18 | PPBV | # | 99 |
| 88) ISOPROPYLBENZENE | 14.434 | 120 | 3299 | 0.19 | PPBV | | 99 |
| 89) BROMOBENZENE | 14.296 | 77 | 5420 | 0.18 | PPBV | # | 39 |
| 90) 2-CHLOROTOLUENE | 15.431 | 126 | 2677 | 0.18 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.772 | 120 | 2818 | 0.17 | PPBV | # | 62 |
| 92) 4-ETHYLTOLUENE | 16.142 | 105 | 9947 | 0.17 | PPBV | # | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.296 | 105 | 8565 | 0.17 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.498 | 118 | 3096 | 0.15 | PPBV | | 98 |
| 95) TERT-BUTYLBENZENE | 16.756 | 134 | 2261 | 0.18 | PPBV | | 95 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.765 | 105 | 8595 | 0.17 | PPBV | | 94 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:41:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration

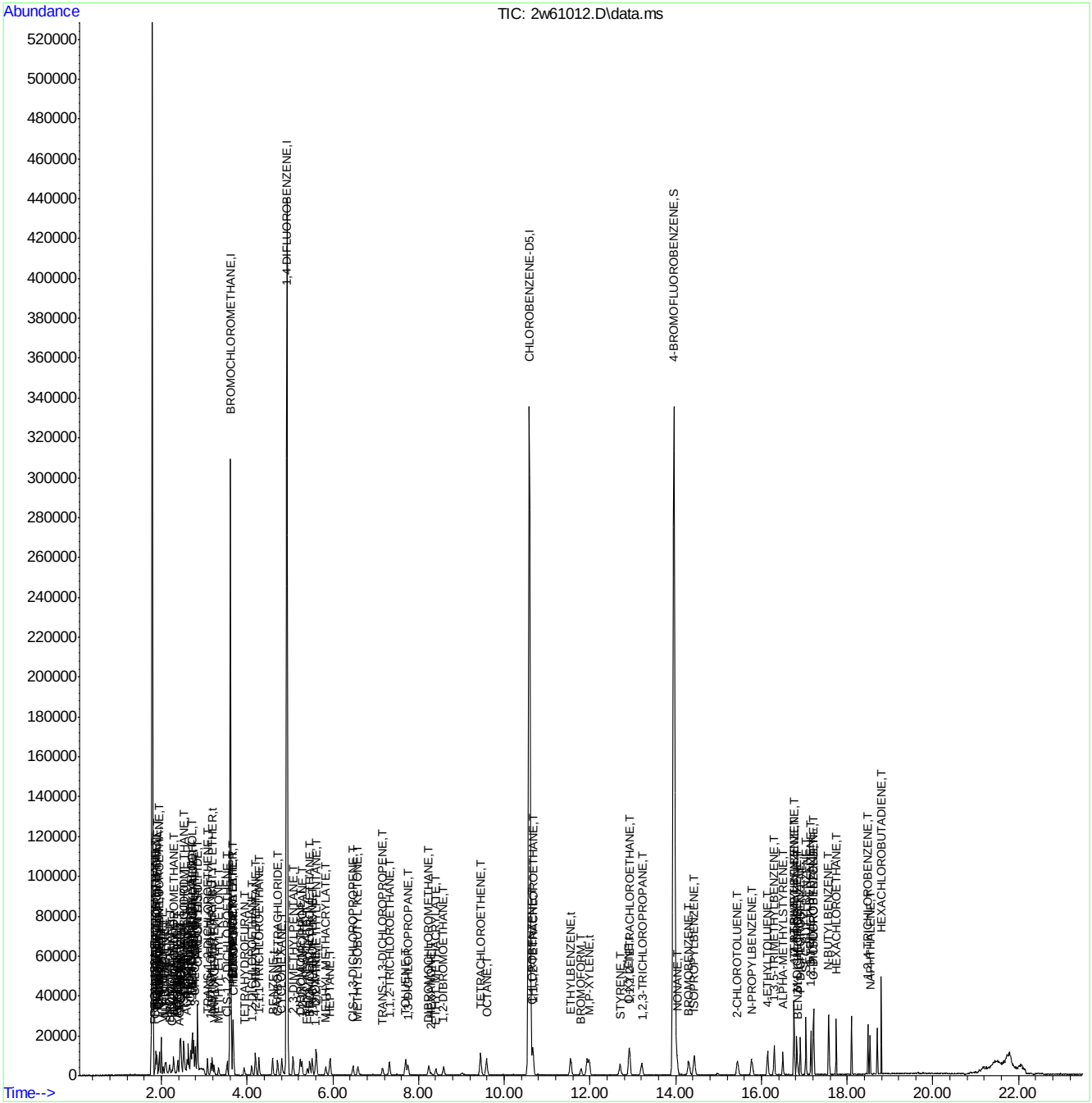
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.852 | 91 | 3085 | 0.12 | PPBV | # | 89 |
| 98) | M-DICHLOROBENZENE | 16.826 | 146 | 5983 | 0.17 | PPBV | | 98 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 5846 | 0.17 | PPBV | | 94 |
| 100) | O-DICHLOROBENZENE | 17.206 | 146 | 6092 | 0.19 | PPBV | | 99 |
| 101) | SEC-BUTYLBENZENE | 17.039 | 134 | 3031 | 0.20 | PPBV | | 84 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 8528 | 0.17 | PPBV | | 98 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 2975 | 0.18 | PPBV | | 99 |
| 104) | N-BUTYLBENZENE | 17.566 | 134 | 2492 | 0.16 | PPBV | | 97 |
| 105) | HEXACHLOROETHANE | 17.746 | 117 | 2279 | 0.14 | PPBV | | 98 |
| 106) | HEXACHLOROBUTADIENE | 18.797 | 225 | 4203 | 0.17 | PPBV | # | 1 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.485 | 180 | 4180 | 0.16 | PPBV | | 94 |
| 108) | NAPHTHALENE | 18.534 | 128 | 9026 | 0.14 | PPBV | | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:41:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



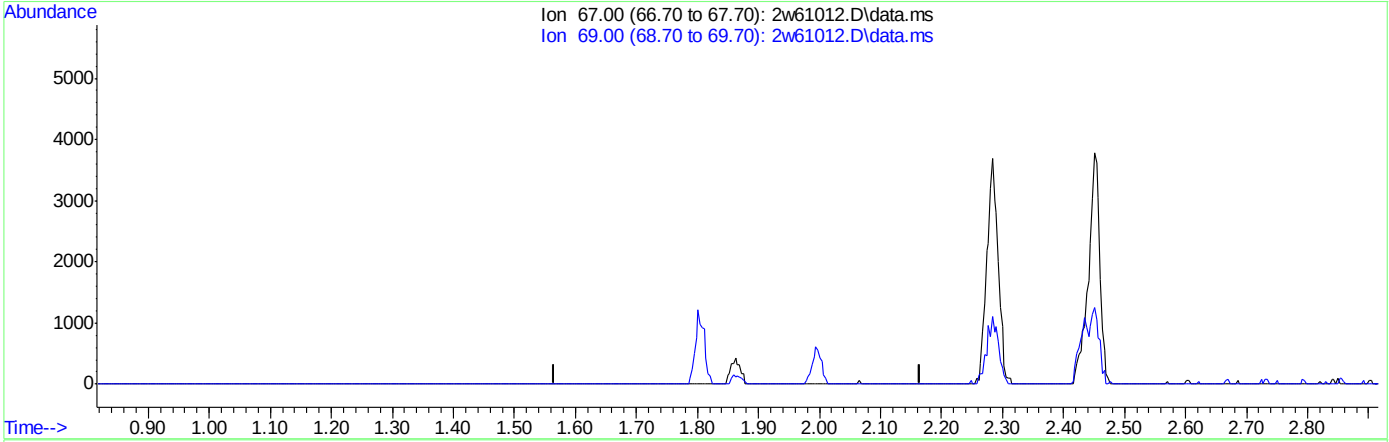
**Sample Number:** V2W2709-IC2709 **Method:** TO-15
**Lab FileID:** 2W61012.D **Analyst approved:** 08/23/22 20:59 Benjamin Kim
**Injection Time:** 08/19/22 12:27 **Supervisor approved:** 08/24/22 14:44 Kanya Veerawat

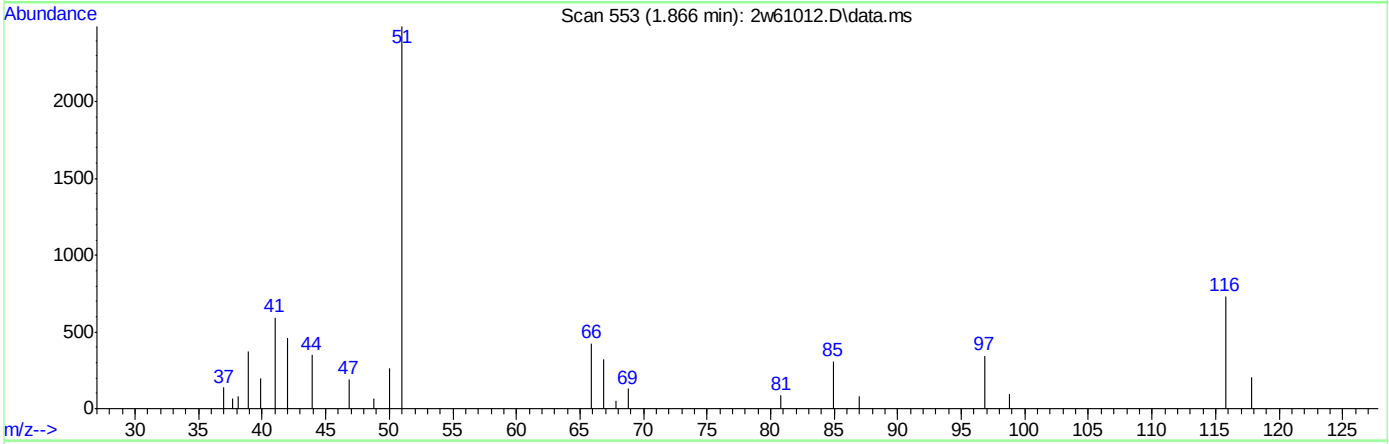
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Chlorodifluoromethane | 75-45-6 | | 1.86 | Poor instrument integration |
| Acrolein | 107-02-8 | | 2.41 | Poor instrument integration |
| Vinyl Acetate | 108-05-4 | | 3.24 | Poor instrument integration |
| m,p-Xylene | | | 11.98 | Poor instrument integration |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:54:52 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration




TIC: 2w61012.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.866min (-1.866) 0.00PPBV

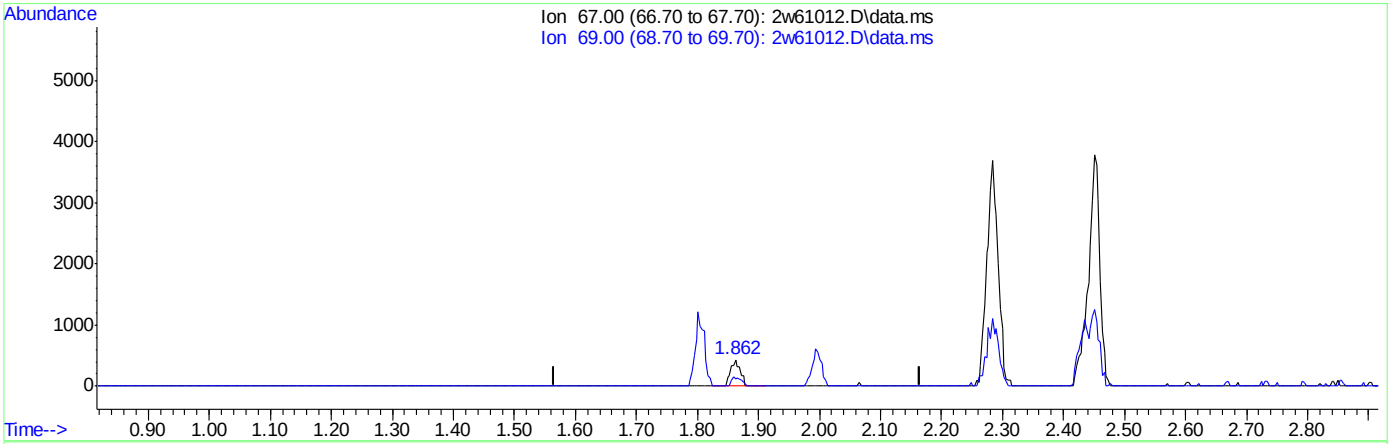
response 0

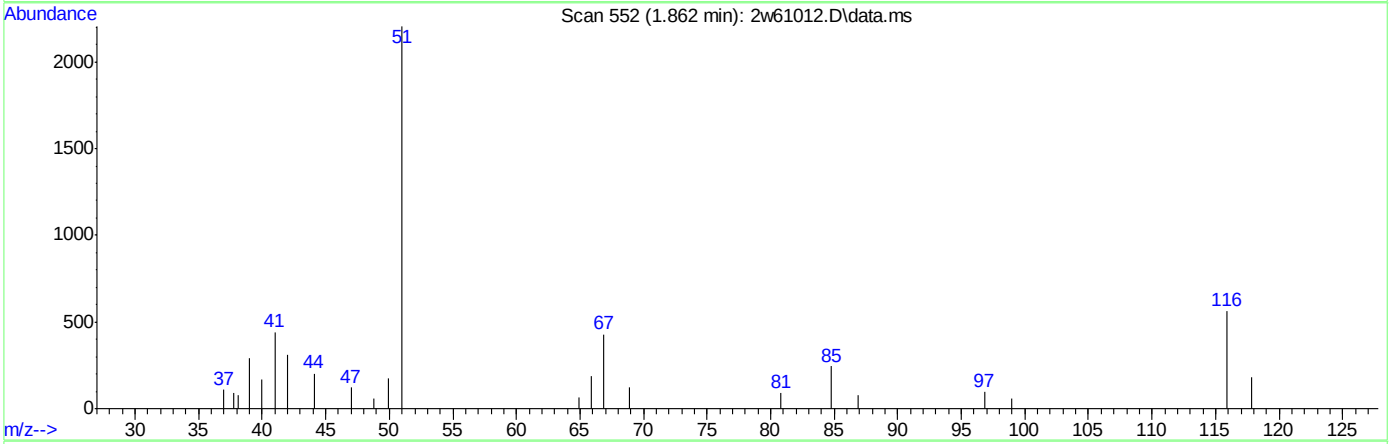
| Ion | Exp% | Act% |
|---|---|---|
| 67.00 | 100 | 0.00 |
| 69.00 | 34.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:54:52 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration




TIC: 2w61012.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.862min (-0.004) 0.19PPBV m

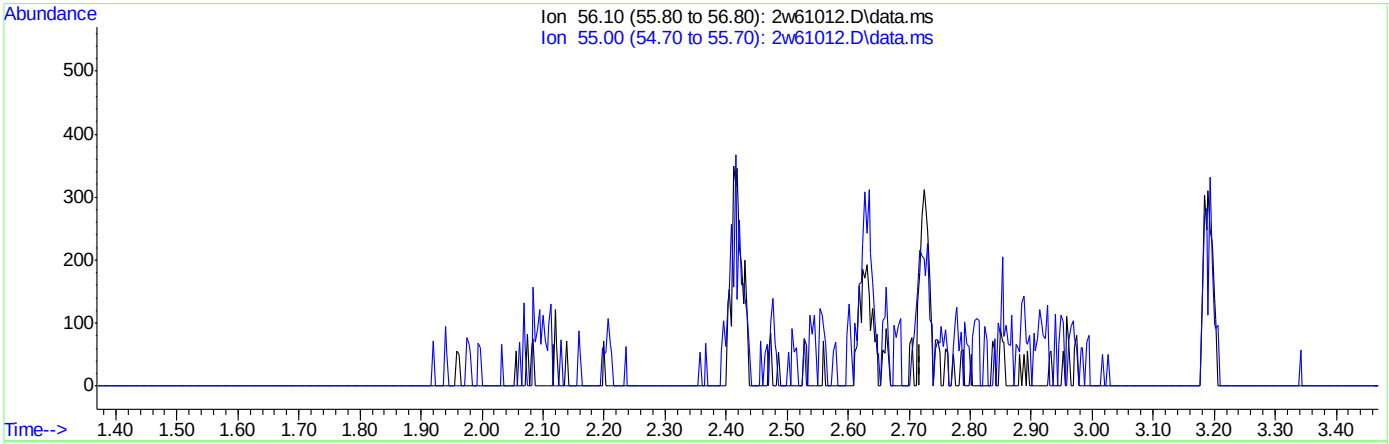
response 468

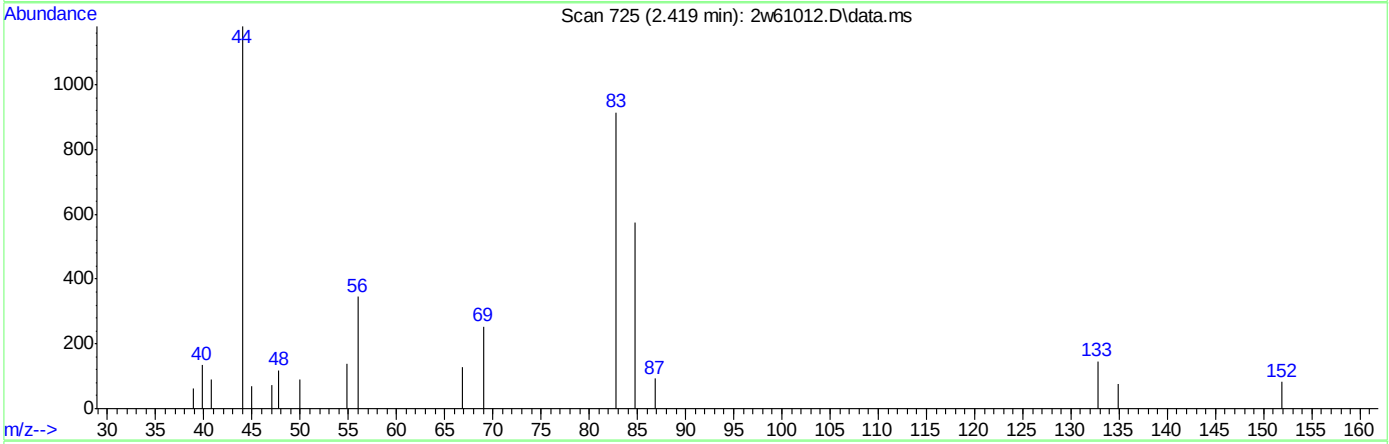
| Ion | Exp% | Act% |
|---|---|---|
| 67.00 | 100 | 100 |
| 69.00 | 34.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:54:52 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration




TIC: 2w61012.D\data.ms

(18) ACROLEIN (T)

2.419min (-2.419) 0.00PPBV

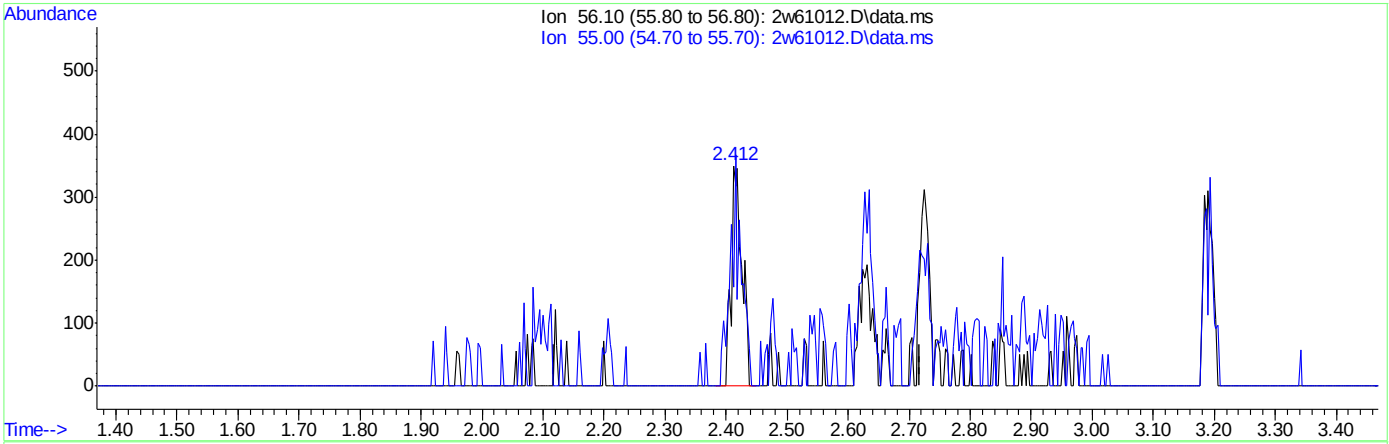
response 0

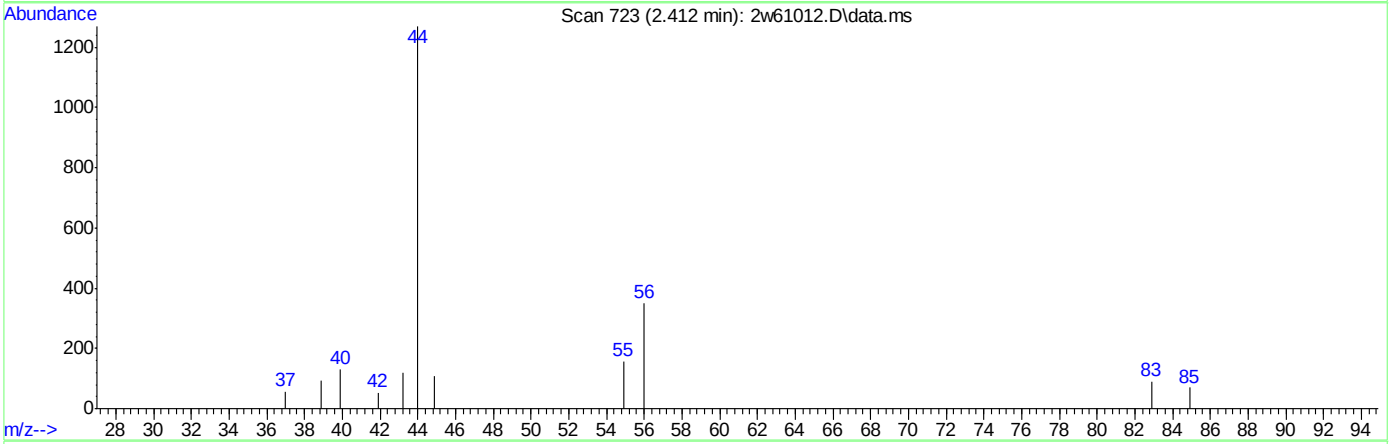
| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 0.00 |
| 55.00 | 71.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:54:52 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration




TIC: 2w61012.D\data.ms

(18) ACROLEIN (T)

2.412min (-0.007) 0.12PPBV m

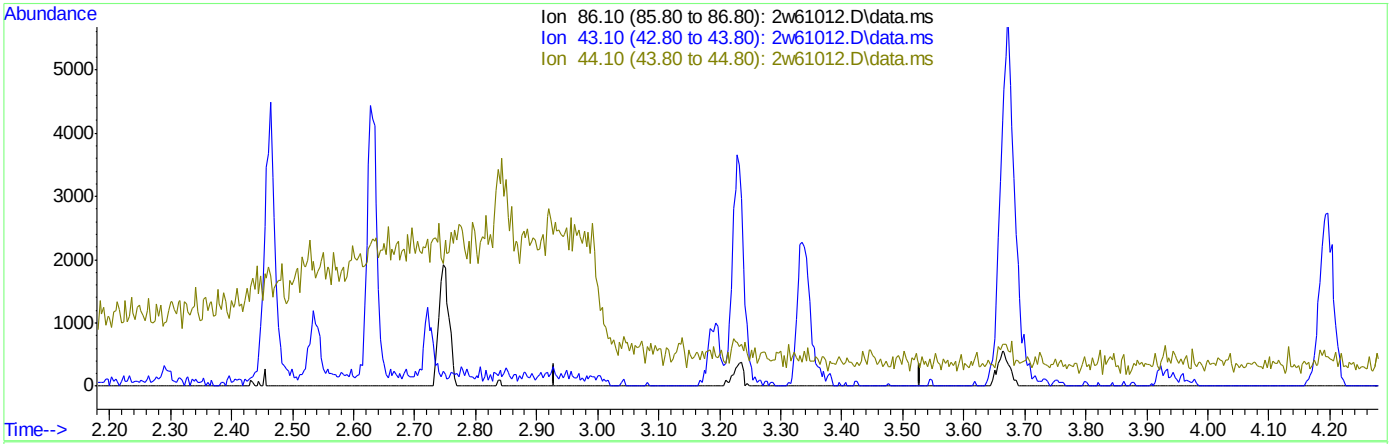
response 435

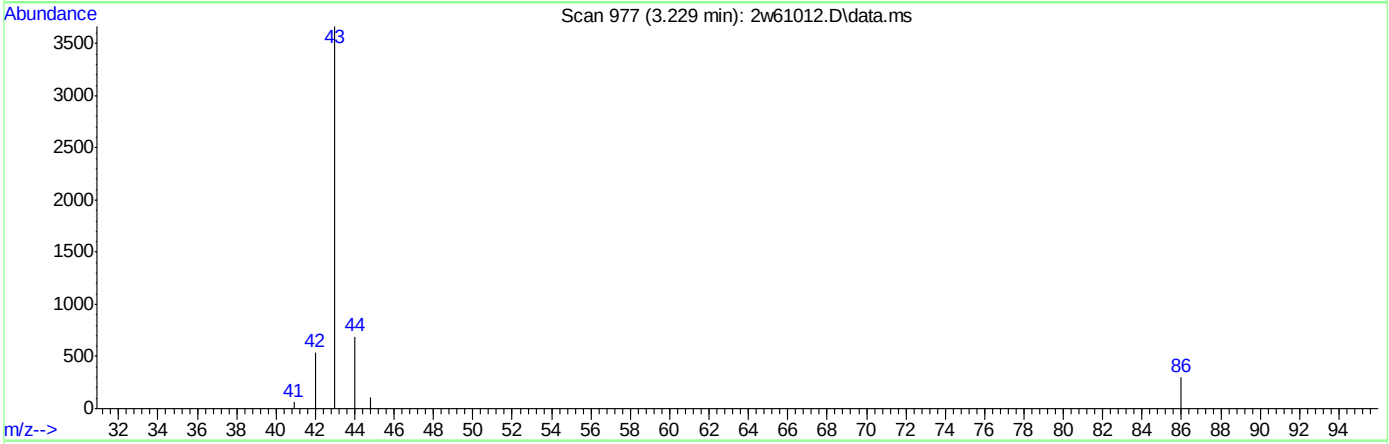
| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 100 |
| 55.00 | 71.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:54:52 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration




TIC: 2w61012.D\data.ms

(39) VINYL ACETATE (T)

3.229min (-3.229) 0.00PPBV

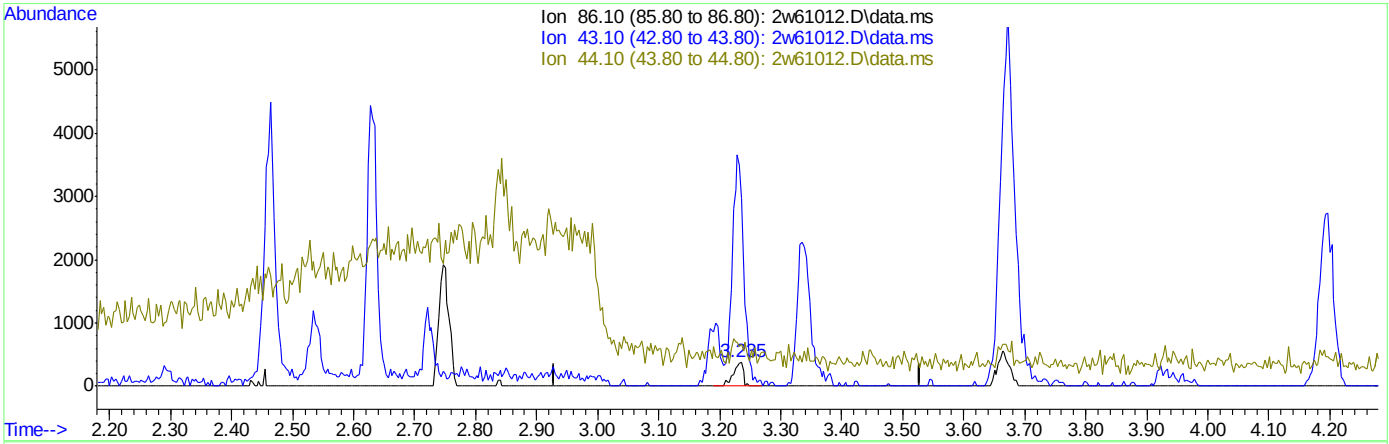
response 0

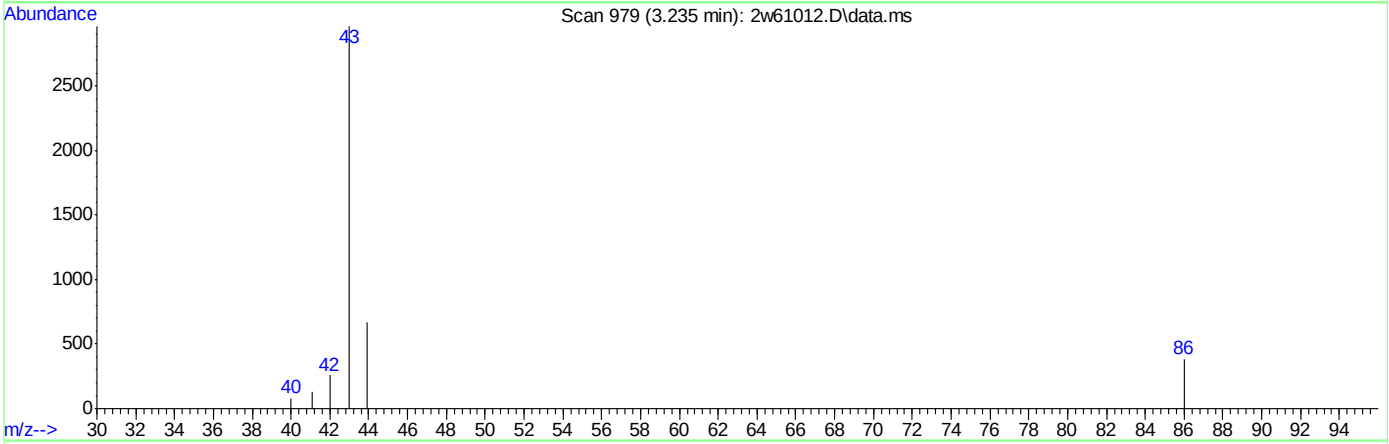
| Ion | Exp% | Act% |
|---|---|---|
| 86.10 | 100 | 0.00 |
| 43.10 | 958.60 | 0.00# |
| 44.10 | 52.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:54:52 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration




TIC: 2w61012.D\data.ms

(39) VINYL ACETATE (T)

3.235min (+0.006) 0.16PPBV m

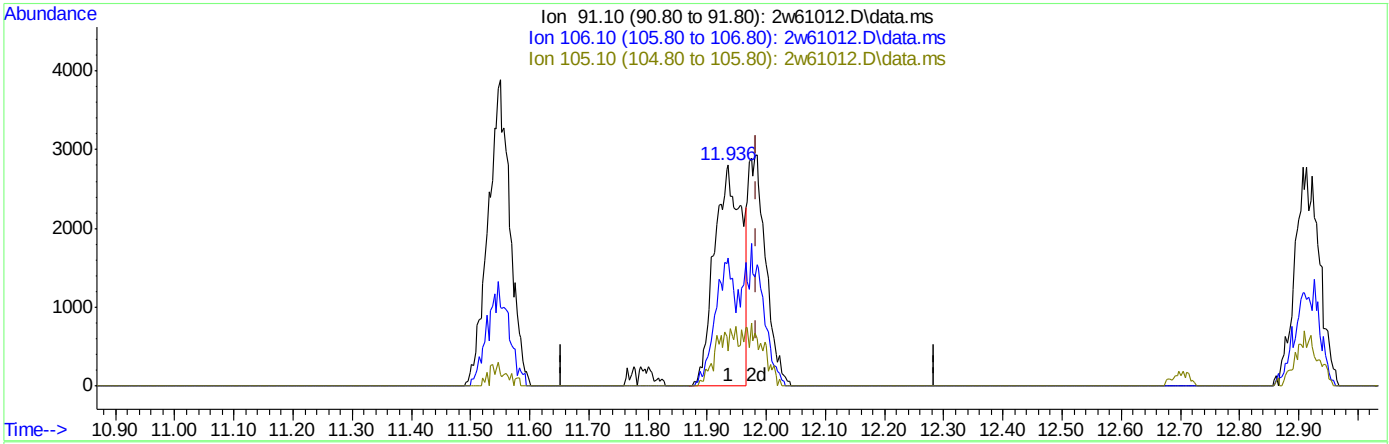
response 426

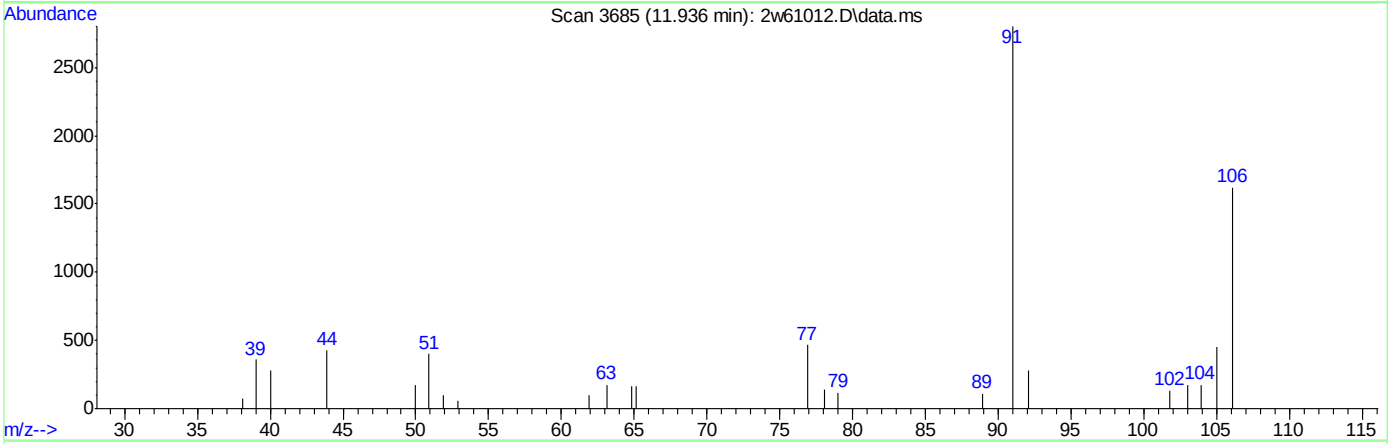
| Ion | Exp% | Act% |
|---|---|---|
| 86.10 | 100 | 100 |
| 43.10 | 958.60 | 0.00# |
| 44.10 | 52.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:55:25 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration




TIC: 2w61012.D\data.ms

(80) M,P-XYLENE (t)

11.936min (-0.049) 0.22PPBV

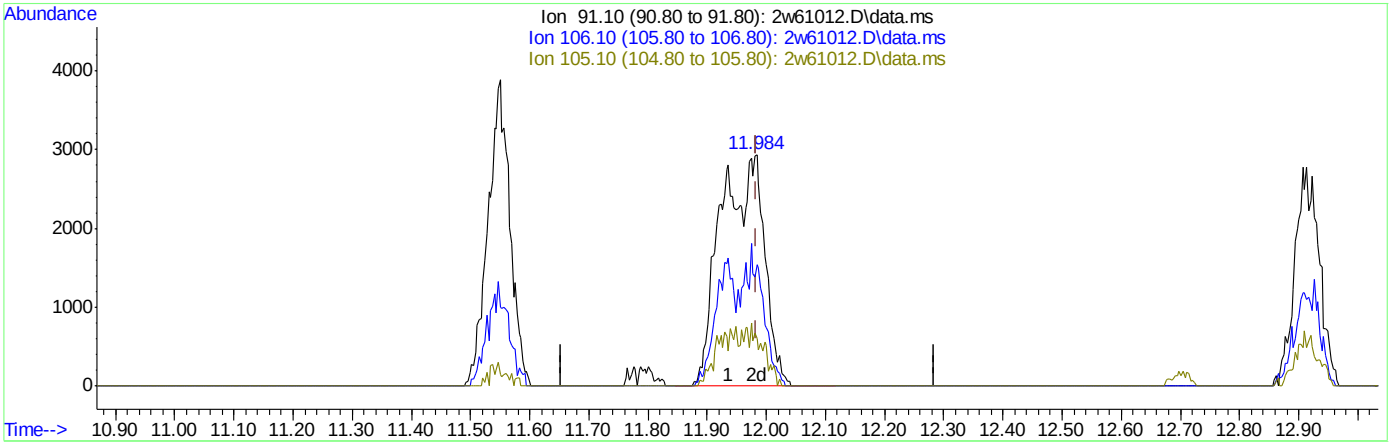
response 8831

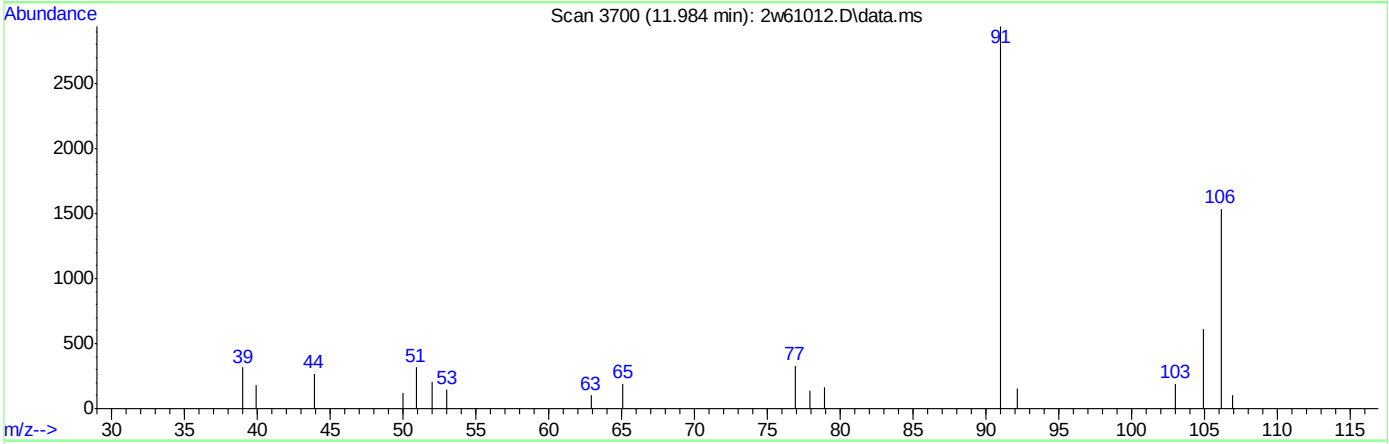
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 23.00 | 42.95 |
| 105.10 | 10.90 | 19.79 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:55:25 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration




TIC: 2w61012.D\data.ms

(80) M,P-XYLENE (t)

11.984min (-0.000) 0.36PPBV m

response 14963

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 23.00 | 25.35 |
| 105.10 | 10.90 | 11.68 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61013.D
Acq On : 19 Aug 2022 12:59 pm
Operator : thomash
Sample : ic2709-0.5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:42:13 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:53:09 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.608 | 128 | 64185 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 349033 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 311657 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.955 | 95 | 205868 | 9.86 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.846 | 65 | 2690 | 0.33 | PPBV | | 95 |
| 4) CHLORODIFLUOROMETHANE | 1.869 | 67 | 1194 | 0.31 | PPBV | # | 40 |
| 5) CHLOROTRIFLUOROETHENE | 1.882 | 116 | 6910 | 0.32 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.901 | 85 | 15281 | 0.32 | PPBV | # | 73 |
| 7) PROPYLENE | 1.875 | 41 | 2932 | 0.32 | PPBV | | 95 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.949 | 65 | 11460 | 0.31 | PPBV | # | 88 |
| 9) FREON 114 | 1.998 | 85 | 13905 | 0.32 | PPBV | | 97 |
| 10) CHLOROMETHANE | 1.962 | 52 | 1624 | 0.33 | PPBV | | 95 |
| 11) VINYL CHLORIDE | 2.043 | 62 | 5337 | 0.30 | PPBV | # | 93 |
| 12) 1,3-BUTADIENE | 2.091 | 54 | 4383 | 0.32 | PPBV | | 97 |
| 13) N-BUTANE | 2.110 | 43 | 7281 | 0.33 | PPBV | # | 94 |
| 14) BROMOMETHANE | 2.191 | 94 | 4823 | 0.31 | PPBV | | 96 |
| 15) CHLOROETHANE | 2.252 | 64 | 2897 | 0.31 | PPBV | | 95 |
| 16) DICHLOROFLUOROMETHANE | 2.287 | 67 | 11546 | 0.32 | PPBV | | 99 |
| 17) ACETONITRILE | 2.374 | 41 | 4380 | 0.34 | PPBV | | 96 |
| 18) ACROLEIN | 2.425 | 56 | 1025 | 0.13 | PPBV | | 88 |
| 19) FREON 123 | 2.432 | 83 | 12589 | 0.31 | PPBV | | 97 |
| 20) FREON 123A | 2.454 | 117 | 7200 | 0.31 | PPBV | | 99 |
| 21) TRICHLOROFLUOROMETHANE | 2.522 | 101 | 15817 | 0.31 | PPBV | # | 1 |
| 22) ISOPROPYL ALCOHOL | 2.538 | 45 | 13799 | 0.36 | PPBV | | 95 |
| 23) ACETONE | 2.464 | 58 | 5025 | 0.47 | PPBV | | 71 |
| 24) PENTANE | 2.631 | 42 | 7059 | 0.32 | PPBV | | 98 |
| 25) IODOMETHANE | 2.686 | 142 | 15489 | 0.31 | PPBV | | 99 |
| 26) 1,1-DICHLOROETHYLENE | 2.715 | 96 | 5905 | 0.30 | PPBV | | 93 |
| 27) CARBON DISULFIDE | 2.843 | 76 | 17652 | 0.31 | PPBV | # | 82 |
| 28) ETHANOL | 2.290 | 45 | 3011 | 0.44 | PPBV | # | 94 |
| 29) BROMOETHENE | 2.383 | 106 | 5030 | 0.31 | PPBV | # | 100 |
| 30) ACRYLONITRILE | 2.599 | 52 | 4918 | 0.32 | PPBV | | 95 |
| 31) METHYLENE CHLORIDE | 2.747 | 84 | 6999 | 0.36 | PPBV | | 99 |
| 32) 3-CHLOROPROPENE | 2.789 | 76 | 3495 | 0.36 | PPBV | | 96 |
| 33) FREON 113 | 2.843 | 151 | 9982 | 0.30 | PPBV | | 97 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 5129 | 0.31 | PPBV | | 97 |
| 35) TERTIARY BUTYL ALCOHOL | 2.724 | 59 | 15937 | 0.32 | PPBV | | 95 |
| 36) METHYL TERTIARY BUTYL ... | 3.190 | 73 | 13182 | 0.31 | PPBV | | 98 |
| 37) TETRAHYDROFURAN | 3.920 | 72 | 2249 | 0.30 | PPBV | | 87 |
| 38) HEXANE | 3.666 | 57 | 8621 | 0.30 | PPBV | | 97 |
| 39) VINYL ACETATE | 3.232 | 86 | 1264 | 0.31 | PPBV | # | 94 |
| 40) 1,1-DICHLOROETHANE | 3.155 | 63 | 9161 | 0.31 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.338 | 72 | 2261 | 0.30 | PPBV | | 99 |
| 42) CIS-1,2-DICHLOROETHENE | 3.528 | 96 | 5662 | 0.32 | PPBV | | 99 |
| 43) DIISOPROPYL ETHER | 3.670 | 59 | 2410 | 0.29 | PPBV | | 90 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61013.D
Acq On : 19 Aug 2022 12:59 pm
Operator : thomash
Sample : ic2709-0.5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:42:13 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:53:09 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.682 | 61 | 1655 | 0.30 | PPBV | | 79 |
| 45) METHYL ACRYLATE | 3.660 | 55 | 9722 | 0.29 | PPBV | # | 100 |
| 46) CHLOROFORM | 3.682 | 83 | 11151 | 0.32 | PPBV | | 98 |
| 47) 2,4-DIMETHYLPENTANE | 4.190 | 57 | 10708 | 0.32 | PPBV | | 98 |
| 48) 1,1,1-TRICHLOROETHANE | 4.271 | 97 | 10795 | 0.31 | PPBV | | 99 |
| 49) CARBON TETRACHLORIDE | 4.708 | 117 | 10167 | 0.29 | PPBV | | 98 |
| 50) 1,2-DICHLOROETHANE | 4.107 | 62 | 7981 | 0.33 | PPBV | # | 100 |
| 51) BENZENE | 4.596 | 78 | 16270 | 0.32 | PPBV | | 99 |
| 53) CYCLOHEXANE | 4.814 | 84 | 7209 | 0.32 | PPBV | | 98 |
| 54) 2,3-DIMETHYLPENTANE | 5.075 | 71 | 3561 | 0.32 | PPBV | | 97 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 7415 | 0.32 | PPBV | | 98 |
| 56) 1,2-DICHLOROPROPANE | 5.277 | 63 | 6506 | 0.32 | PPBV | | 100 |
| 57) DIBROMOMETHANE | 5.235 | 174 | 7757 | 0.34 | PPBV | | 98 |
| 58) ETHYL ACRYLATE | 5.403 | 55 | 10083 | 0.26 | PPBV | | 99 |
| 59) BROMODICHLOROMETHANE | 5.460 | 83 | 10997 | 0.30 | PPBV | | 98 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.608 | 57 | 29002 | 0.32 | PPBV | | 100 |
| 61) 1,4-DIOXANE | 5.554 | 88 | 3502 | 0.33 | PPBV | # | 80 |
| 62) HEPTANE | 5.930 | 43 | 8670 | 0.30 | PPBV | | 98 |
| 63) METHYL METHACRYLATE | 5.830 | 69 | 4528 | 0.25 | PPBV | | 87 |
| 64) METHYL ISOBUTYL KETONE | 6.579 | 58 | 3537 | 0.22 | PPBV | | 93 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.470 | 75 | 7930 | 0.30 | PPBV | | 99 |
| 66) TOLUENE | 7.698 | 91 | 20242 | 0.32 | PPBV | | 97 |
| 67) 1,3-DICHLOROPROPANE | 7.753 | 76 | 9325 | 0.30 | PPBV | | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.155 | 75 | 6535 | 0.28 | PPBV | | 96 |
| 69) 1,1,2-TRICHLOROETHANE | 7.316 | 83 | 6323 | 0.34 | PPBV | | 96 |
| 70) 2-HEXANONE | 8.287 | 58 | 1479 | 0.08 | PPBV | # | 1 |
| 71) ETHYL METHACRYLATE | 8.402 | 69 | 5756 | 0.21 | PPBV | | 99 |
| 72) TETRACHLOROETHENE | 9.438 | 164 | 8476 | 0.34 | PPBV | | 98 |
| 73) DIBROMOCHLOROMETHANE | 8.232 | 129 | 9599 | 0.27 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.589 | 107 | 10379 | 0.30 | PPBV | # | 99 |
| 75) OCTANE | 9.589 | 43 | 11835 | 0.31 | PPBV | | 99 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.676 | 131 | 7074 | 0.29 | PPBV | | 99 |
| 78) CHLOROBENZENE | 10.656 | 112 | 16157 | 0.32 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.544 | 91 | 25862 | 0.31 | PPBV | | 99 |
| 80) M,P-XYLENE | 11.975 | 91 | 38656 | 0.62 | PPBV | # | 90 |
| 81) O-XYLENE | 12.907 | 91 | 19059 | 0.30 | PPBV | | 100 |
| 82) STYRENE | 12.695 | 104 | 13062 | 0.28 | PPBV | | 97 |
| 83) NONANE | 14.020 | 43 | 12386 | 0.32 | PPBV | | 96 |
| 84) BROMOFORM | 11.791 | 173 | 7034 | 0.23 | PPBV | # | 97 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.917 | 83 | 14680 | 0.32 | PPBV | | 98 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.203 | 75 | 11346 | 0.33 | PPBV | # | 99 |
| 88) ISOPROPYLBENZENE | 14.431 | 120 | 8275 | 0.30 | PPBV | | 99 |
| 89) BROMOBENZENE | 14.306 | 77 | 14251 | 0.33 | PPBV | | 98 |
| 90) 2-CHLOROTOLUENE | 15.441 | 126 | 7309 | 0.32 | PPBV | | 98 |
| 91) N-PROPYLBENZENE | 15.775 | 120 | 7716 | 0.30 | PPBV | | 94 |
| 92) 4-ETHYLTOLUENE | 16.145 | 105 | 27288 | 0.30 | PPBV | # | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.302 | 105 | 22638 | 0.30 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.502 | 118 | 8368 | 0.26 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.756 | 134 | 5550 | 0.29 | PPBV | | 88 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.765 | 105 | 22848 | 0.29 | PPBV | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61013.D
Acq On : 19 Aug 2022 12:59 pm
Operator : thomash
Sample : ic2709-0.5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:42:13 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:53:09 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.846 | 91 | 8620 | 0.24 | PPBV | | 97 |
| 98) | M-DICHLOROBENZENE | 16.827 | 146 | 15883 | 0.31 | PPBV | | 98 |
| 99) | P-DICHLOROBENZENE | 16.907 | 146 | 16134 | 0.32 | PPBV | | 97 |
| 100) | O-DICHLOROBENZENE | 17.203 | 146 | 15107 | 0.31 | PPBV | | 99 |
| 101) | SEC-BUTYLBENZENE | 17.042 | 134 | 6801 | 0.29 | PPBV | | 95 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 22182 | 0.30 | PPBV | | 98 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 7457 | 0.30 | PPBV | | 98 |
| 104) | N-BUTYLBENZENE | 17.566 | 134 | 6672 | 0.29 | PPBV | | 99 |
| 105) | HEXACHLOROETHANE | 17.746 | 117 | 5759 | 0.23 | PPBV | | 100 |
| 106) | HEXACHLOROBUTADIENE | 18.794 | 225 | 11615 | 0.34 | PPBV | # | 2 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.486 | 180 | 11810 | 0.31 | PPBV | | 98 |
| 108) | NAPHTHALENE | 18.531 | 128 | 27201 | 0.30 | PPBV | | 97 |

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

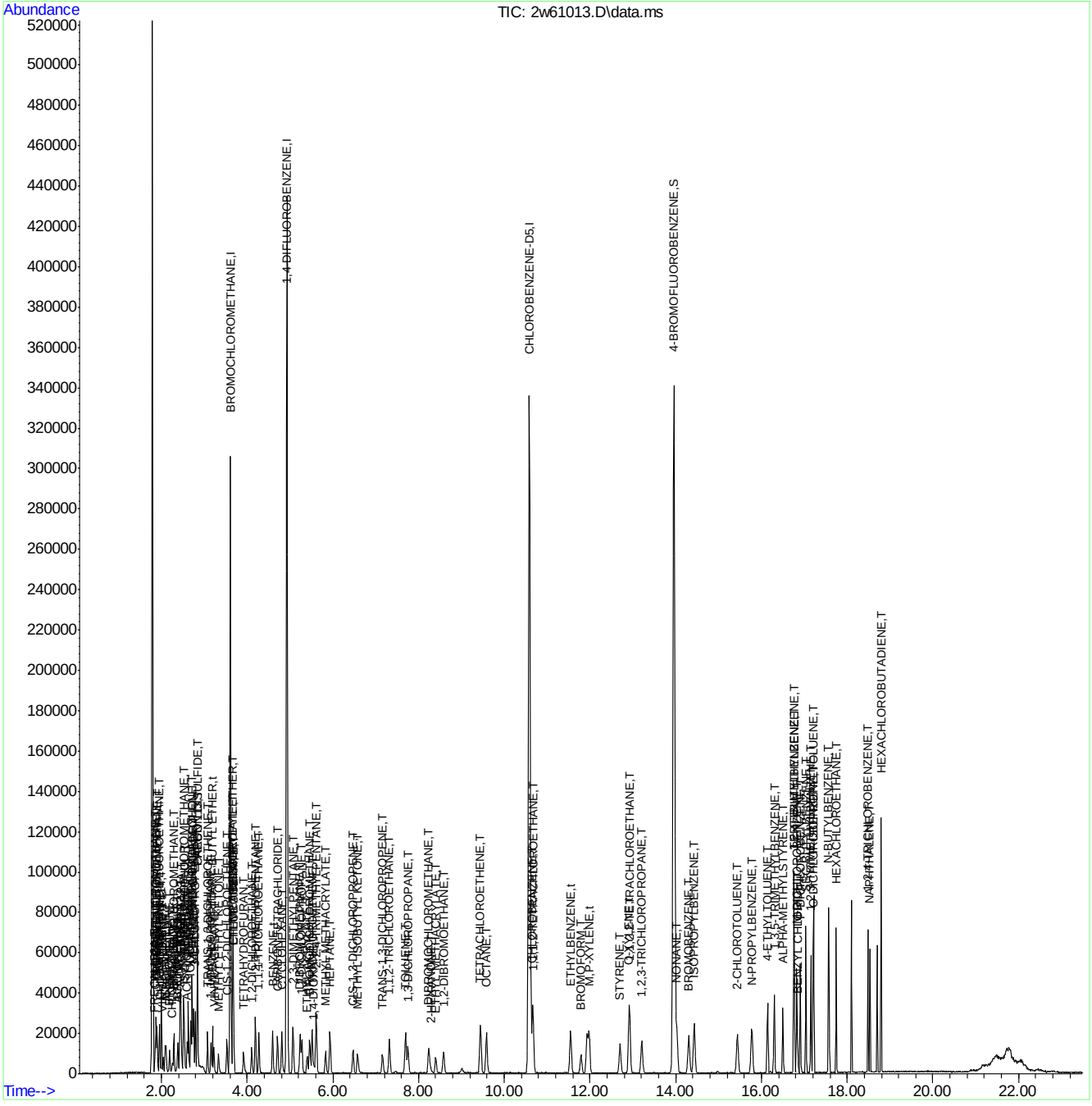
7.7.15

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61013.D
Acq On : 19 Aug 2022 12:59 pm
Operator : thomash
Sample : ic2709-0.5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:42:13 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:53:09 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/24/22 15:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61015.D
Acq On : 19 Aug 2022 2:02 pm
Operator : thomash
Sample : ic2709-5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:29 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:48 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.611 | 128 | 68904 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 372933 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 337350 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 226996 | 10.08 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.849 | 65 | 30277m | 5.26 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.862 | 67 | 13735 | 5.39 | PPBV | | 97 |
| 5) CHLOROTRIFLUOROETHENE | 1.878 | 116 | 79298 | 5.38 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.901 | 85 | 179220 | 5.26 | PPBV | # | 72 |
| 7) PROPYLENE | 1.875 | 41 | 33501 | 5.20 | PPBV | | 100 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.952 | 65 | 134364 | 5.24 | PPBV | | 98 |
| 9) FREON 114 | 1.997 | 85 | 162073 | 5.29 | PPBV | | 99 |
| 10) CHLOROMETHANE | 1.959 | 52 | 17709 | 5.15 | PPBV | | 98 |
| 11) VINYL CHLORIDE | 2.039 | 62 | 64081 | 5.40 | PPBV | | 100 |
| 12) 1,3-BUTADIENE | 2.091 | 54 | 49591 | 5.41 | PPBV | | 99 |
| 13) N-BUTANE | 2.110 | 43 | 81858 | 5.07 | PPBV | | 99 |
| 14) BROMOMETHANE | 2.190 | 94 | 56507 | 5.25 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.255 | 64 | 34916 | 5.51 | PPBV | | 98 |
| 16) DICHLOROFLUOROMETHANE | 2.287 | 67 | 135128 | 5.34 | PPBV | | 99 |
| 17) ACETONITRILE | 2.374 | 41 | 49247 | 5.16 | PPBV | | 99 |
| 18) ACROLEIN | 2.419 | 56 | 29000 | 7.24 | PPBV | | 99 |
| 19) FREON 123 | 2.435 | 83 | 150547 | 5.35 | PPBV | | 99 |
| 20) FREON 123A | 2.454 | 117 | 86401 | 5.31 | PPBV | | 97 |
| 21) TRICHLOROFLUOROMETHANE | 2.518 | 101 | 193650 | 5.50 | PPBV | # | 1 |
| 22) ISOPROPYL ALCOHOL | 2.534 | 45 | 141864 | 4.98 | PPBV | | 99 |
| 23) ACETONE | 2.460 | 58 | 39931 | 4.32 | PPBV | | 99 |
| 24) PENTANE | 2.628 | 42 | 80075 | 5.15 | PPBV | | 99 |
| 25) IODOMETHANE | 2.685 | 142 | 186750 | 5.41 | PPBV | | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.711 | 96 | 74742 | 5.53 | PPBV | | 98 |
| 27) CARBON DISULFIDE | 2.843 | 76 | 217801 | 5.32 | PPBV | # | 82 |
| 28) ETHANOL | 2.290 | 45 | 24212 | 4.24 | PPBV | | 99 |
| 29) BROMOETHENE | 2.383 | 106 | 59898 | 5.48 | PPBV | # | 100 |
| 30) ACRYLONITRILE | 2.602 | 52 | 58763 | 5.54 | PPBV | | 98 |
| 31) METHYLENE CHLORIDE | 2.747 | 84 | 69059 | 4.49 | PPBV | | 98 |
| 32) 3-CHLOROPROPENE | 2.785 | 76 | 36301 | 5.19 | PPBV | | 97 |
| 33) FREON 113 | 2.840 | 151 | 122707 | 5.37 | PPBV | | 99 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 61656 | 5.47 | PPBV | | 100 |
| 35) TERTIARY BUTYL ALCOHOL | 2.721 | 59 | 187952 | 5.28 | PPBV | | 99 |
| 36) METHYL TERTIARY BUTYL ... | 3.187 | 73 | 156154 | 5.33 | PPBV | | 100 |
| 37) TETRAHYDROFURAN | 3.904 | 72 | 28297 | 5.79 | PPBV | | 96 |
| 38) HEXANE | 3.663 | 57 | 105560 | 5.35 | PPBV | | 100 |
| 39) VINYL ACETATE | 3.229 | 86 | 15080 | 5.43 | PPBV | | 91 |
| 40) 1,1-DICHLOROETHANE | 3.155 | 63 | 109341 | 5.41 | PPBV | | 100 |
| 41) METHYL ETHYL KETONE | 3.325 | 72 | 28931 | 5.82 | PPBV | | 100 |
| 42) CIS-1,2-DICHLOROETHENE | 3.531 | 96 | 65373 | 5.39 | PPBV | | 99 |
| 43) DIISOPROPYL ETHER | 3.666 | 59 | 30863 | 5.34 | PPBV | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61015.D
Acq On : 19 Aug 2022 2:02 pm
Operator : thomash
Sample : ic2709-5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:29 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:48 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.673 | 61 | 22073 | 3.78 | PPBV | | 99 |
| 45) METHYL ACRYLATE | 3.656 | 55 | 127464 | 5.52 | PPBV | # | 99 |
| 46) CHLOROFORM | 3.685 | 83 | 133214 | 5.39 | PPBV | | 99 |
| 47) 2,4-DIMETHYLPENTANE | 4.193 | 57 | 124025 | 5.40 | PPBV | | 99 |
| 48) 1,1,1-TRICHLOROETHANE | 4.274 | 97 | 132317 | 5.37 | PPBV | | 99 |
| 49) CARBON TETRACHLORIDE | 4.711 | 117 | 131707 | 5.40 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 4.107 | 62 | 90456 | 5.41 | PPBV | # | 100 |
| 51) BENZENE | 4.595 | 78 | 189412 | 5.37 | PPBV | | 100 |
| 53) CYCLOHEXANE | 4.808 | 84 | 83640 | 5.36 | PPBV | | 99 |
| 54) 2,3-DIMETHYLPENTANE | 5.071 | 71 | 41391 | 5.41 | PPBV | | 97 |
| 55) TRICHLOROETHENE | 5.515 | 95 | 87638 | 5.44 | PPBV | | 98 |
| 56) 1,2-DICHLOROPROPANE | 5.280 | 63 | 75050 | 5.31 | PPBV | | 99 |
| 57) DIBROMOMETHANE | 5.238 | 174 | 83527 | 5.16 | PPBV | | 99 |
| 58) ETHYL ACRYLATE | 5.393 | 55 | 151519 | 5.77 | PPBV | | 100 |
| 59) BROMODICHLOROMETHANE | 5.460 | 83 | 139406 | 5.39 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 330571 | 5.28 | PPBV | | 100 |
| 61) 1,4-DIOXANE | 5.528 | 88 | 40800 | 5.43 | PPBV | | 99 |
| 62) HEPTANE | 5.933 | 43 | 103774 | 5.27 | PPBV | | 99 |
| 63) METHYL METHACRYLATE | 5.824 | 69 | 69360 | 5.82 | PPBV | | 100 |
| 64) METHYL ISOBUTYL KETONE | 6.573 | 58 | 59949 | 6.07 | PPBV | | 99 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.470 | 75 | 103405 | 5.56 | PPBV | | 100 |
| 66) TOLUENE | 7.695 | 91 | 235719 | 5.28 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.756 | 76 | 114312 | 5.40 | PPBV | | 99 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.158 | 75 | 90768 | 5.42 | PPBV | | 99 |
| 69) 1,1,2-TRICHLOROETHANE | 7.322 | 83 | 70318 | 5.39 | PPBV | | 99 |
| 70) 2-HEXANONE | 8.258 | 58 | 71057 | 7.60 | PPBV | # | 1 |
| 71) ETHYL METHACRYLATE | 8.399 | 69 | 105244 | 6.11 | PPBV | | 99 |
| 72) TETRACHLOROETHENE | 9.447 | 164 | 92942 | 5.16 | PPBV | | 98 |
| 73) DIBROMOCHLOROMETHANE | 8.238 | 129 | 140255 | 5.54 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.589 | 107 | 130670 | 5.52 | PPBV | | 100 |
| 75) OCTANE | 9.586 | 43 | 141914 | 5.38 | PPBV | | 99 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.669 | 131 | 97603 | 5.39 | PPBV | | 100 |
| 78) CHLOROBENZENE | 10.656 | 112 | 190132 | 5.28 | PPBV | | 100 |
| 79) ETHYLBENZENE | 11.547 | 91 | 313080 | 5.48 | PPBV | | 100 |
| 80) M,P-XYLENE | 11.978 | 91 | 477395 | 12.58 | PPBV | | 96 |
| 81) O-XYLENE | 12.913 | 91 | 242396 | 5.45 | PPBV | | 97 |
| 82) STYRENE | 12.701 | 104 | 182021 | 5.77 | PPBV | | 99 |
| 83) NONANE | 14.029 | 43 | 146486 | 5.32 | PPBV | | 98 |
| 84) BROMOFORM | 11.788 | 173 | 126169 | 5.85 | PPBV | | 100 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.923 | 83 | 177715 | 5.36 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.209 | 75 | 131429 | 5.41 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.431 | 120 | 103958 | 5.53 | PPBV | | 100 |
| 89) BROMOBENZENE | 14.309 | 77 | 166432 | 5.41 | PPBV | | 99 |
| 90) 2-CHLOROTOLUENE | 15.444 | 126 | 87032 | 5.74 | PPBV | | 100 |
| 91) N-PROPYLBENZENE | 15.775 | 120 | 97336 | 5.65 | PPBV | | 100 |
| 92) 4-ETHYLTOLUENE | 16.145 | 105 | 356332 | 5.61 | PPBV | | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.302 | 105 | 294822 | 5.56 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.502 | 118 | 130661 | 5.90 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.759 | 134 | 74564 | 5.48 | PPBV | | 99 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.765 | 105 | 307567 | 5.40 | PPBV | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61015.D
Acq On : 19 Aug 2022 2:02 pm
Operator : thomash
Sample : ic2709-5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:29 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:48 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.849 | 91 | 168900 | 5.14 | PPBV | | 100 |
| 98) | M-DICHLOROBENZENE | 16.826 | 146 | 207297 | 5.56 | PPBV | | 100 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 206717 | 5.46 | PPBV | | 99 |
| 100) | O-DICHLOROBENZENE | 17.206 | 146 | 195819 | 5.30 | PPBV | | 98 |
| 101) | SEC-BUTYLBENZENE | 17.042 | 134 | 93115 | 5.51 | PPBV | | 97 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 298704 | 5.57 | PPBV | | 99 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 98046 | 5.23 | PPBV | | 99 |
| 104) | N-BUTYLBENZENE | 17.569 | 134 | 93276 | 5.41 | PPBV | | 98 |
| 105) | HEXACHLOROETHANE | 17.746 | 117 | 106859 | 5.34 | PPBV | | 99 |
| 106) | HEXACHLOROBUTADIENE | 18.797 | 225 | 134530 | 4.56 | PPBV | # | 1 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.485 | 180 | 153262 | 4.97 | PPBV | | 99 |
| 108) | NAPHTHALENE | 18.534 | 128 | 373864 | 5.07 | PPBV | | 100 |

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

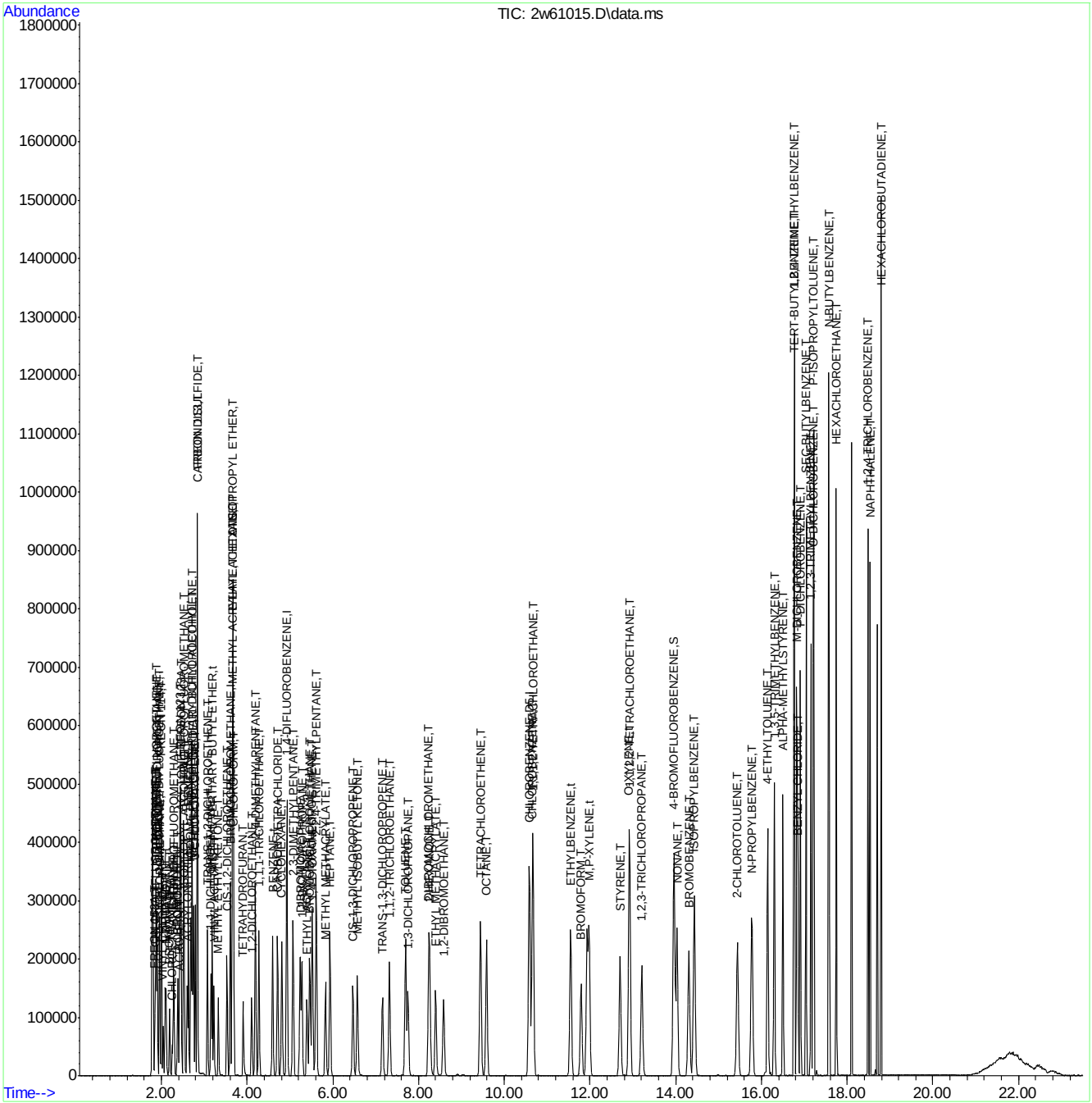
7.7.16

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61015.D
Acq On : 19 Aug 2022 2:02 pm
Operator : thomash
Sample : ic2709-5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:29 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:48 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



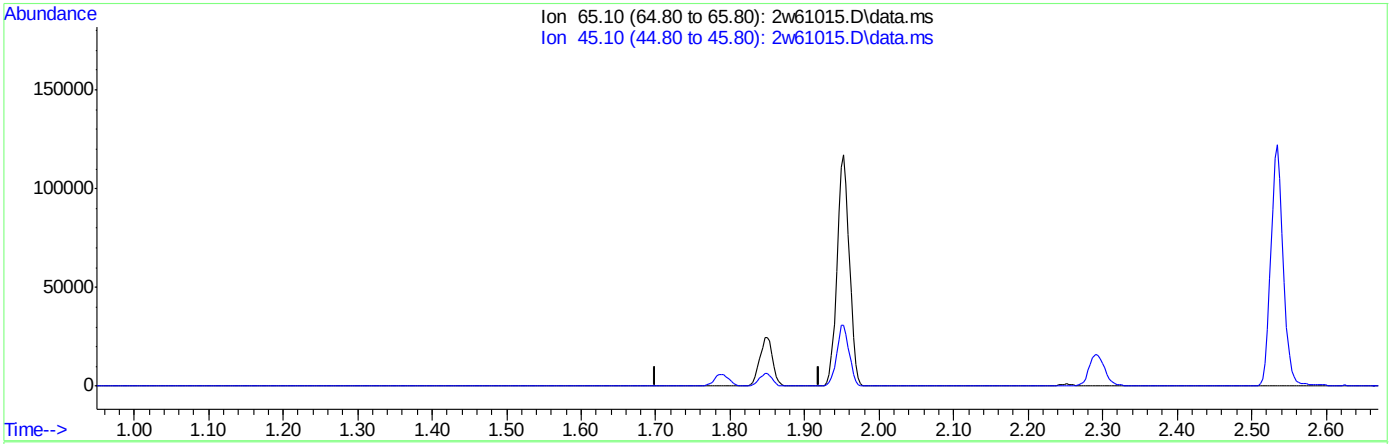
| | | | |
|---|---|---|---|
| **Sample Number:** | V2W2709-IC2709 | **Method:** | TO-15 |
| **Lab FileID:** | 2W61015.D | **Analyst approved:** | 08/23/22 17:35 Benjamin Kim |
| **Injection Time:** | 08/19/22 14:02 | **Supervisor approved:** | 08/24/22 15:08 Kanya Veerawat |

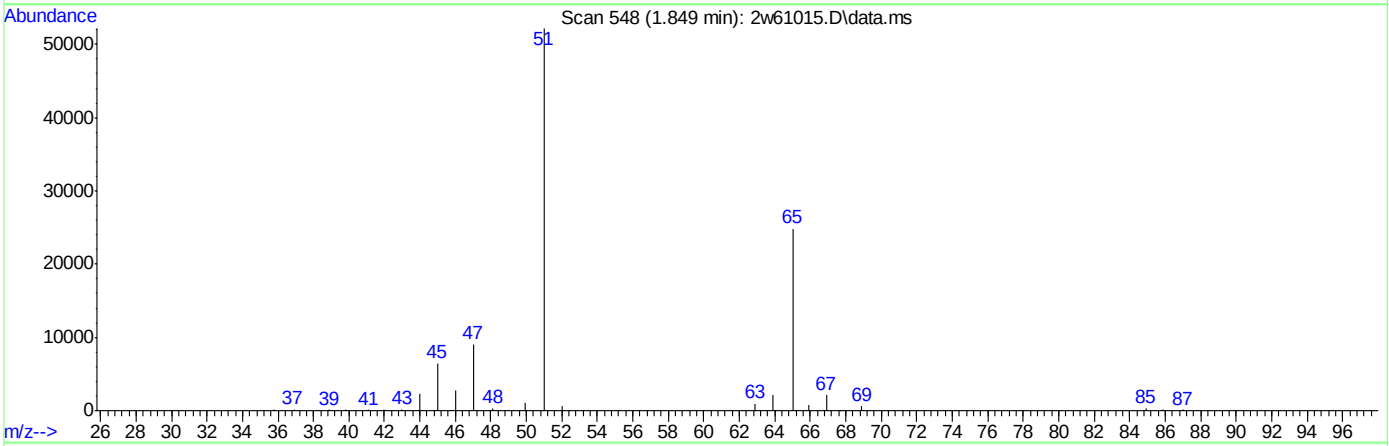
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.85 | Poor instrument integration |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61015.D
Acq On : 19 Aug 2022 2:02 pm
Operator : thomash
Sample : ic2709-5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 22 22:03:16 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:48 2022
Response via : Initial Calibration




TIC: 2w61015.D\data.ms

(3) FREON 152A (T)

1.850min (-1.850) 0.00PPBV

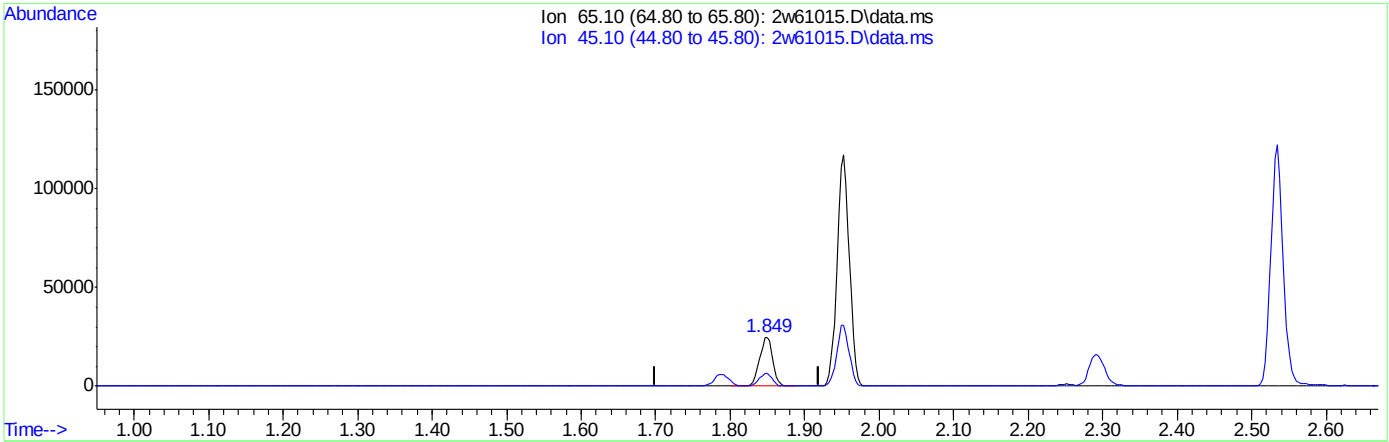
response 0

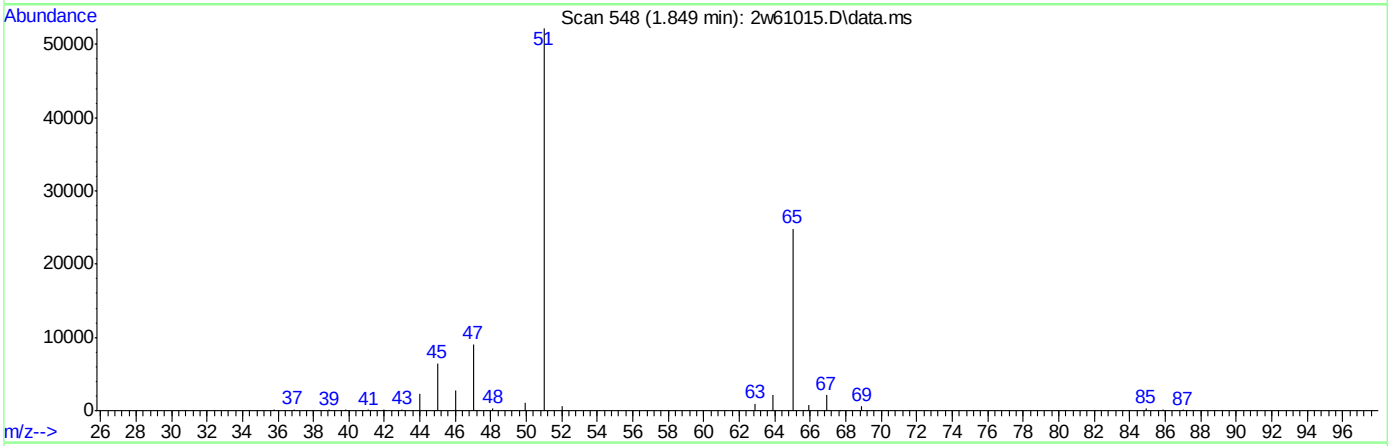
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 0.00 |
| 45.10 | 27.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61015.D
Acq On : 19 Aug 2022 2:02 pm
Operator : thomash
Sample : ic2709-5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 22 22:03:16 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:48 2022
Response via : Initial Calibration




TIC: 2w61015.D\data.ms

(3) FREON 152A (T)

1.849min (-0.001) 5.26PPBV m

response 30277

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 27.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/24/22 22:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61016.D
Acq On : 19 Aug 2022 2:34 pm
Operator : thomash
Sample : icc2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 16:20:24 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.612 | 128 | 68573 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 368687 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.583 | 117 | 341921 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.959 | 95 | 230073 | 10.11 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 3) FREON 152A | 1.850 | 65 | 59612m | 10.34 | PPBV | |
| 4) CHLORODIFLUOROMETHANE | 1.866 | 67 | 27345 | 10.68 | PPBV | 100 |
| 5) CHLOROTRIFLUOROETHENE | 1.882 | 116 | 153518 | 10.36 | PPBV | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.901 | 85 | 351123 | 10.29 | PPBV | 100 |
| 7) PROPYLENE | 1.879 | 41 | 63634 | 9.88 | PPBV | 100 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.953 | 65 | 265285 | 10.33 | PPBV | 100 |
| 9) FREON 114 | 1.998 | 85 | 314778 | 10.24 | PPBV | 100 |
| 10) CHLOROMETHANE | 1.962 | 52 | 33845 | 9.85 | PPBV | 100 |
| 11) VINYL CHLORIDE | 2.039 | 62 | 124106 | 10.40 | PPBV | 100 |
| 12) 1,3-BUTADIENE | 2.094 | 54 | 95763 | 10.39 | PPBV | 100 |
| 13) N-BUTANE | 2.113 | 43 | 154908 | 9.65 | PPBV | 100 |
| 14) BROMOMETHANE | 2.191 | 94 | 108807 | 10.09 | PPBV | 100 |
| 15) CHLOROETHANE | 2.255 | 64 | 66908 | 10.48 | PPBV | 100 |
| 16) DICHLOROFLUOROMETHANE | 2.287 | 67 | 262644 | 10.34 | PPBV | 100 |
| 17) ACETONITRILE | 2.374 | 41 | 94343 | 9.89 | PPBV | 100 |
| 18) ACROLEIN | 2.419 | 56 | 55545 | 13.19 | PPBV | 100 |
| 19) FREON 123 | 2.435 | 83 | 291157 | 10.31 | PPBV | 100 |
| 20) FREON 123A | 2.454 | 117 | 168569 | 10.32 | PPBV | 100 |
| 21) TRICHLOROFLUOROMETHANE | 2.519 | 101 | 370665 | 10.44 | PPBV | 100 |
| 22) ISOPROPYL ALCOHOL | 2.535 | 45 | 272143 | 9.60 | PPBV | 100 |
| 23) ACETONE | 2.461 | 58 | 75620 | 8.37 | PPBV | 100 |
| 24) PENTANE | 2.631 | 42 | 151254 | 9.74 | PPBV | 100 |
| 25) IODOMETHANE | 2.686 | 142 | 357923 | 10.31 | PPBV | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.712 | 96 | 140890 | 10.34 | PPBV | 100 |
| 27) CARBON DISULFIDE | 2.843 | 76 | 427514 | 10.42 | PPBV | 100 |
| 28) ETHANOL | 2.293 | 45 | 46818 | 8.39 | PPBV | 100 |
| 29) BROMOETHENE | 2.384 | 106 | 116683 | 10.60 | PPBV | 100 |
| 30) ACRYLONITRILE | 2.602 | 52 | 112584 | 10.52 | PPBV | 100 |
| 31) METHYLENE CHLORIDE | 2.747 | 84 | 130773 | 8.65 | PPBV | 100 |
| 32) 3-CHLOROPROPENE | 2.789 | 76 | 69034 | 9.87 | PPBV | 100 |
| 33) FREON 113 | 2.840 | 151 | 237044 | 10.32 | PPBV | 100 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 117179 | 10.33 | PPBV | 100 |
| 35) TERTIARY BUTYL ALCOHOL | 2.721 | 59 | 359669 | 10.07 | PPBV | 100 |
| 36) METHYL TERTIARY BUTYL ... | 3.187 | 73 | 298016 | 10.14 | PPBV | 100 |
| 37) TETRAHYDROFURAN | 3.901 | 72 | 54925 | 11.08 | PPBV | 100 |
| 38) HEXANE | 3.663 | 57 | 203953 | 10.29 | PPBV | 100 |
| 39) VINYL ACETATE | 3.229 | 86 | 30940 | 11.08 | PPBV | 100 |
| 40) 1,1-DICHLOROETHANE | 3.155 | 63 | 209154 | 10.30 | PPBV | 100 |
| 41) METHYL ETHYL KETONE | 3.326 | 72 | 54875 | 10.87 | PPBV | 100 |
| 42) CIS-1,2-DICHLOROETHENE | 3.531 | 96 | 125045 | 10.27 | PPBV | 100 |
| 43) DIISOPROPYL ETHER | 3.666 | 59 | 59819 | 10.31 | PPBV | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61016.D
Acq On : 19 Aug 2022 2:34 pm
Operator : thomash
Sample : icc2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 16:20:24 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.670 | 61 | 42234 | 10.40 | PPBV | | 100 |
| 45) METHYL ACRYLATE | 3.657 | 55 | 250063 | 10.73 | PPBV | # | 100 |
| 46) CHLOROFORM | 3.686 | 83 | 253357 | 10.21 | PPBV | | 100 |
| 47) 2,4-DIMETHYLPENTANE | 4.197 | 57 | 234018 | 10.14 | PPBV | | 100 |
| 48) 1,1,1-TRICHLOROETHANE | 4.277 | 97 | 257312 | 10.40 | PPBV | | 100 |
| 49) CARBON TETRACHLORIDE | 4.708 | 117 | 262842 | 10.72 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 4.107 | 62 | 174278 | 10.37 | PPBV | | 100 |
| 51) BENZENE | 4.596 | 78 | 358852 | 10.13 | PPBV | | 100 |
| 53) CYCLOHEXANE | 4.811 | 84 | 159715 | 10.27 | PPBV | | 100 |
| 54) 2,3-DIMETHYLPENTANE | 5.072 | 71 | 79395 | 10.39 | PPBV | | 100 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 168401 | 10.78 | PPBV | | 100 |
| 56) 1,2-DICHLOROPROPANE | 5.277 | 63 | 142643 | 10.14 | PPBV | | 100 |
| 57) DIBROMOMETHANE | 5.236 | 174 | 159338 | 9.91 | PPBV | | 100 |
| 58) ETHYL ACRYLATE | 5.393 | 55 | 291414 | 11.02 | PPBV | | 100 |
| 59) BROMODICHLOROMETHANE | 5.461 | 83 | 275581 | 10.68 | PPBV | | 100 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.612 | 57 | 626816 | 10.06 | PPBV | | 100 |
| 61) 1,4-DIOXANE | 5.525 | 88 | 77546 | 10.27 | PPBV | | 100 |
| 62) HEPTANE | 5.933 | 43 | 195964 | 9.99 | PPBV | | 100 |
| 63) METHYL METHACRYLATE | 5.824 | 69 | 133764 | 11.13 | PPBV | | 100 |
| 64) METHYL ISOBUTYL KETONE | 6.570 | 58 | 115015 | 11.47 | PPBV | | 100 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.473 | 75 | 201430 | 10.80 | PPBV | | 100 |
| 66) TOLUENE | 7.698 | 91 | 456270 | 10.27 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.756 | 76 | 221387 | 10.48 | PPBV | | 100 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.158 | 75 | 185288 | 11.08 | PPBV | | 100 |
| 69) 1,1,2-TRICHLOROETHANE | 7.319 | 83 | 133196 | 10.23 | PPBV | | 100 |
| 70) 2-HEXANONE | 8.261 | 58 | 140692 | 10.05 | PPBV | | 100 |
| 71) ETHYL METHACRYLATE | 8.399 | 69 | 210424 | 12.02 | PPBV | | 100 |
| 72) TETRACHLOROETHENE | 9.448 | 164 | 180925 | 10.17 | PPBV | | 100 |
| 73) DIBROMOCHLOROMETHANE | 8.239 | 129 | 283293 | 11.17 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.589 | 107 | 254212 | 10.72 | PPBV | | 100 |
| 75) OCTANE | 9.589 | 43 | 270687 | 10.27 | PPBV | | 100 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.676 | 131 | 195924 | 10.58 | PPBV | | 100 |
| 78) CHLOROBENZENE | 10.663 | 112 | 373765 | 10.17 | PPBV | | 100 |
| 79) ETHYLBENZENE | 11.550 | 91 | 606877 | 10.36 | PPBV | | 100 |
| 80) M,P-XYLENE | 11.984 | 91 | 931500 | 20.91 | PPBV | | 100 |
| 81) O-XYLENE | 12.920 | 91 | 474584 | 10.42 | PPBV | | 100 |
| 82) STYRENE | 12.705 | 104 | 362579 | 11.12 | PPBV | | 100 |
| 83) NONANE | 14.033 | 43 | 285197 | 10.14 | PPBV | | 100 |
| 84) BROMOFORM | 11.795 | 173 | 263671 | 11.19 | PPBV | | 100 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.927 | 83 | 348949 | 10.30 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.213 | 75 | 255217 | 10.27 | PPBV | | 100 |
| 88) ISOPROPYLBENZENE | 14.438 | 120 | 201148 | 10.42 | PPBV | | 100 |
| 89) BROMOBENZENE | 14.306 | 77 | 324788 | 10.31 | PPBV | | 100 |
| 90) 2-CHLOROTOLUENE | 15.441 | 126 | 168206 | 10.37 | PPBV | | 100 |
| 91) N-PROPYLBENZENE | 15.775 | 120 | 190916 | 10.76 | PPBV | | 100 |
| 92) 4-ETHYLTOLUENE | 16.148 | 105 | 697047 | 10.66 | PPBV | | 100 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.303 | 105 | 574603 | 10.54 | PPBV | | 100 |
| 94) ALPHA-METHYLSTYRENE | 16.502 | 118 | 254586 | 11.10 | PPBV | | 100 |
| 95) TERT-BUTYLBENZENE | 16.759 | 134 | 146096 | 10.47 | PPBV | | 100 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.769 | 105 | 603160 | 10.35 | PPBV | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61016.D
Acq On : 19 Aug 2022 2:34 pm
Operator : thomash
Sample : icc2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 16:20:24 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.849 | 91 | 387750 | 10.74 | PPBV | 100 |
| 98) | M-DICHLOROBENZENE | 16.827 | 146 | 397777 | 10.38 | PPBV | 100 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 402097 | 10.35 | PPBV | 100 |
| 100) | O-DICHLOROBENZENE | 17.206 | 146 | 382073 | 10.13 | PPBV | 100 |
| 101) | SEC-BUTYLBENZENE | 17.042 | 134 | 178508 | 10.29 | PPBV | 100 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 577798 | 10.48 | PPBV | 100 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 196741 | 10.30 | PPBV | 100 |
| 104) | N-BUTYLBENZENE | 17.566 | 134 | 185259 | 10.49 | PPBV | 100 |
| 105) | HEXACHLOROETHANE | 17.746 | 117 | 227539 | 10.51 | PPBV | 100 |
| 106) | HEXACHLOROBUTADIENE | 18.794 | 225 | 274670 | 9.28 | PPBV | 100 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.486 | 180 | 319072 | 10.22 | PPBV | 100 |
| 108) | NAPHTHALENE | 18.534 | 128 | 794905 | 9.96 | PPBV | 100 |

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

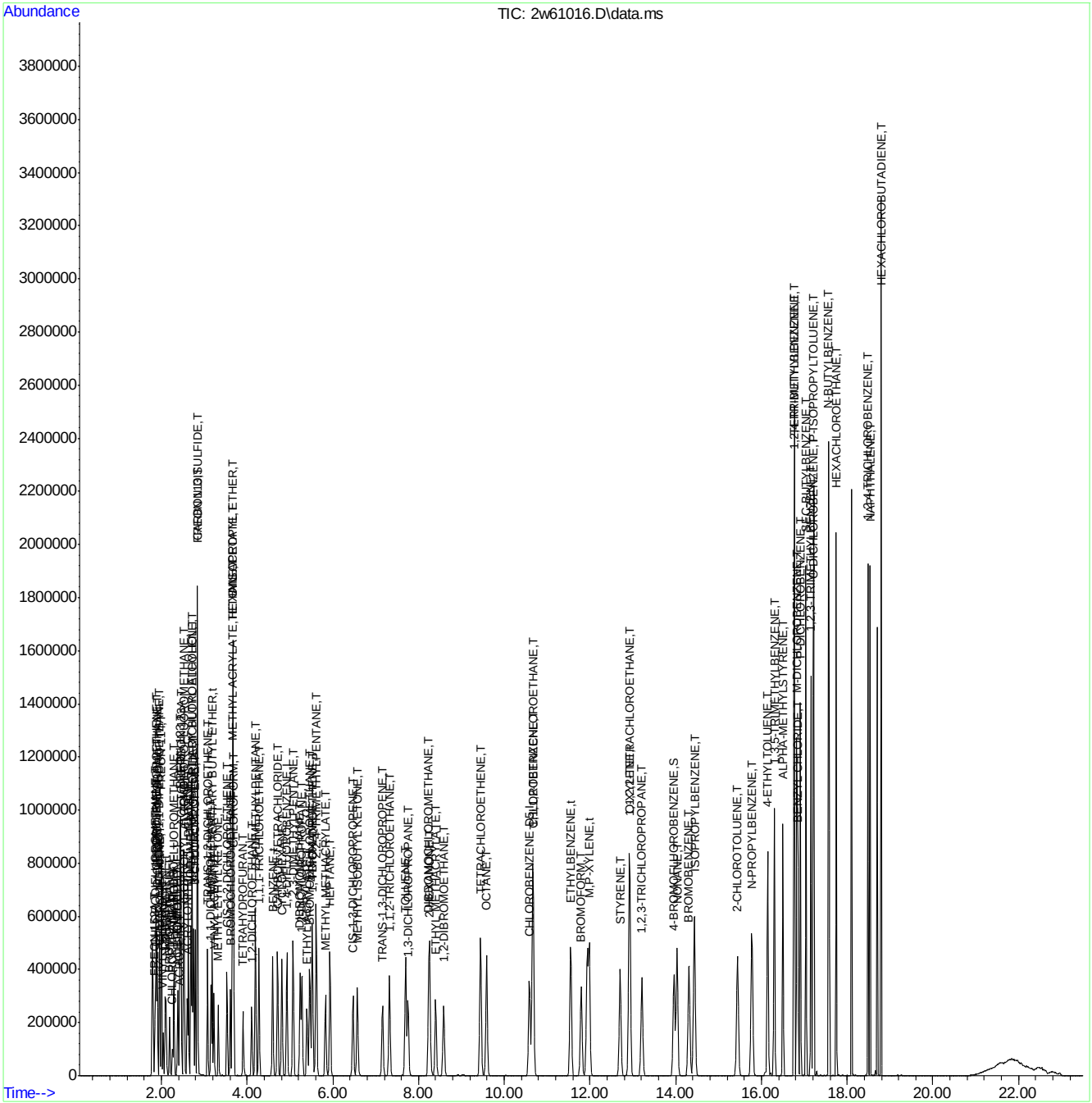
7.7.17

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61016.D
Acq On : 19 Aug 2022 2:34 pm
Operator : thomash
Sample : icc2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 16:20:24 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



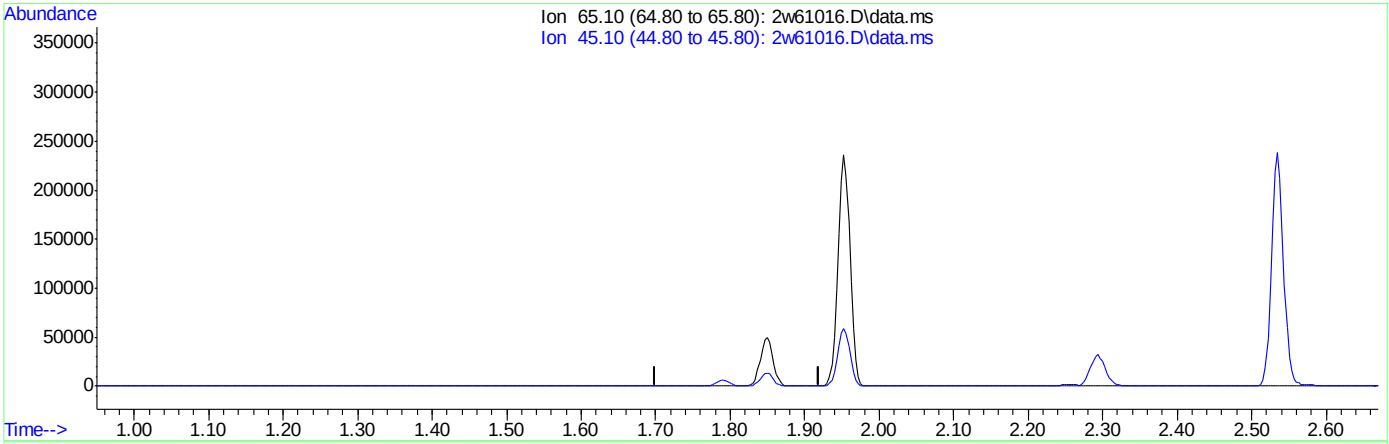
| | | | |
|---|---|---|---|
| **Sample Number:** | V2W2709-ICC2709 | **Method:** | TO-15 |
| **Lab FileID:** | 2W61016.D | **Analyst approved:** | 08/24/22 16:27 Benjamin Kim |
| **Injection Time:** | 08/19/22 14:34 | **Supervisor approved:** | 08/24/22 22:11 Kanya Veerawat |

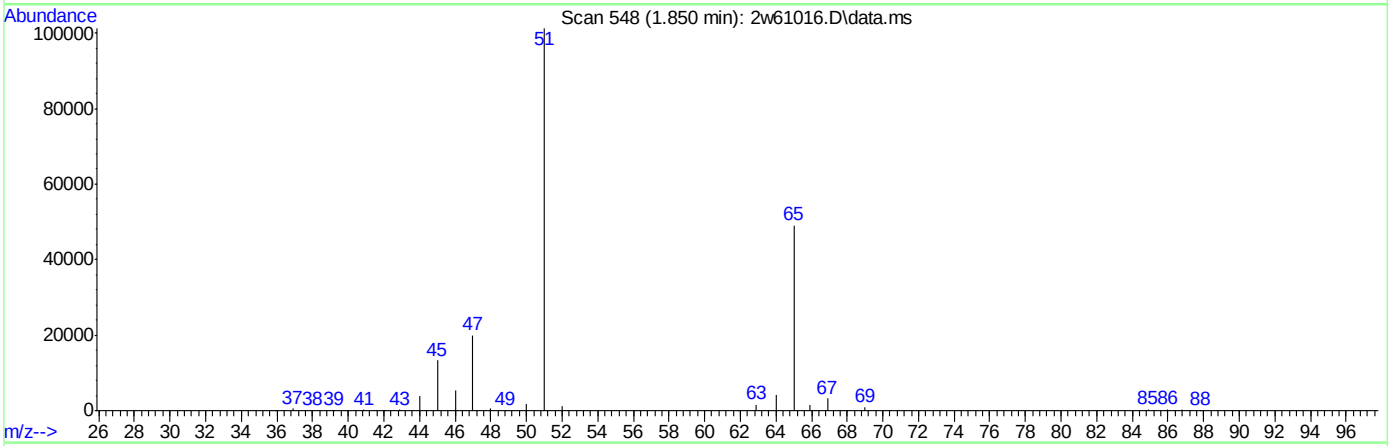
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.85 | Missed peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61016.D
Acq On : 19 Aug 2022 2:34 pm
Operator : thomash
Sample : icc2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 16:20:14 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61016.D\data.ms

(3) FREON 152A (T)

1.850min (-1.850) 0.00PPBV

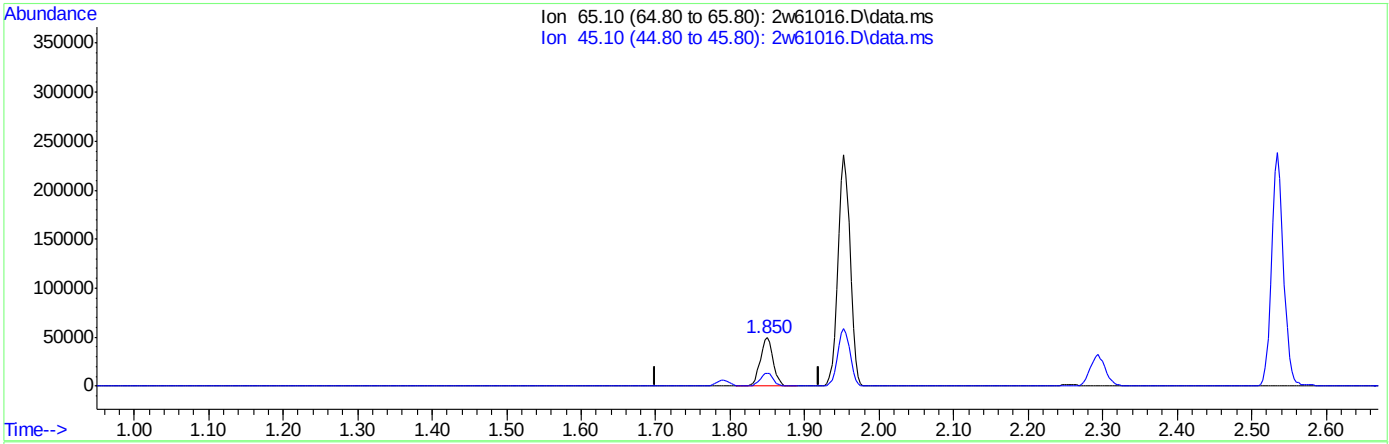
response 0

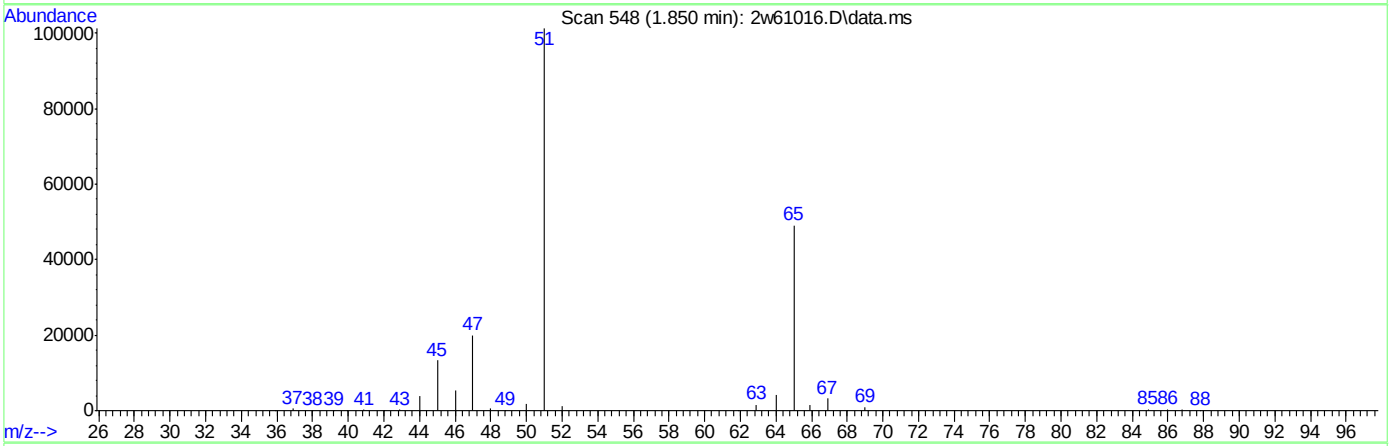
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 0.00 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61016.D
Acq On : 19 Aug 2022 2:34 pm
Operator : thomash
Sample : icc2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 16:20:14 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61016.D\data.ms

(3) FREON 152A (T)

1.850min (-0.000) 10.34PPBV m

response 59612

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61017.D
Acq On : 19 Aug 2022 3:08 pm
Operator : thomash
Sample : ic2709-20
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:50 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.609 | 128 | 72073 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.927 | 114 | 384279 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.589 | 117 | 358155 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.959 | 95 | 238630 | 10.08 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.850 | 65 | 119609 | 21.67 | PPBV | | 98 |
| 4) CHLORODIFLUOROMETHANE | 1.866 | 67 | 53785 | 22.19 | PPBV | | 98 |
| 5) CHLOROTRIFLUOROETHENE | 1.879 | 116 | 309146 | 21.92 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.901 | 85 | 710111 | 21.96 | PPBV | # | 72 |
| 7) PROPYLENE | 1.875 | 41 | 125554 | 19.65 | PPBV | | 100 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.953 | 65 | 533917 | 22.10 | PPBV | | 100 |
| 9) FREON 114 | 1.998 | 85 | 635679 | 21.96 | PPBV | | 100 |
| 10) CHLOROMETHANE | 1.959 | 52 | 67799 | 19.87 | PPBV | | 99 |
| 11) VINYL CHLORIDE | 2.039 | 62 | 245329 | 21.39 | PPBV | | 100 |
| 12) 1,3-BUTADIENE | 2.091 | 54 | 188819 | 21.37 | PPBV | | 99 |
| 13) N-BUTANE | 2.113 | 43 | 309535 | 19.29 | PPBV | | 99 |
| 14) BROMOMETHANE | 2.191 | 94 | 217948 | 20.88 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.255 | 64 | 133028 | 22.02 | PPBV | | 100 |
| 16) DICHLOROFLUOROMETHANE | 2.287 | 67 | 523147 | 21.63 | PPBV | | 99 |
| 17) ACETONITRILE | 2.374 | 41 | 186887 | 19.71 | PPBV | | 99 |
| 18) ACROLEIN | 2.419 | 56 | 111309 | 35.08 | PPBV | | 100 |
| 19) FREON 123 | 2.435 | 83 | 587837 | 22.27 | PPBV | | 99 |
| 20) FREON 123A | 2.454 | 117 | 339631 | 22.07 | PPBV | | 99 |
| 21) TRICHLOROFLUOROMETHANE | 2.519 | 101 | 749691 | 22.72 | PPBV | # | 1 |
| 22) ISOPROPYL ALCOHOL | 2.535 | 45 | 539479 | 19.05 | PPBV | | 99 |
| 23) ACETONE | 2.461 | 58 | 149689 | 15.18 | PPBV | | 99 |
| 24) PENTANE | 2.628 | 42 | 298332 | 19.42 | PPBV | | 100 |
| 25) IODOMETHANE | 2.686 | 142 | 720238 | 22.06 | PPBV | | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.711 | 96 | 281459 | 21.94 | PPBV | | 100 |
| 27) CARBON DISULFIDE | 2.843 | 76 | 866184 | 23.15 | PPBV | # | 82 |
| 28) ETHANOL | 2.293 | 45 | 92201 | 15.11 | PPBV | | 100 |
| 29) BROMOETHENE | 2.384 | 106 | 232310 | 22.53 | PPBV | # | 100 |
| 30) ACRYLONITRILE | 2.602 | 52 | 218286 | 21.27 | PPBV | | 99 |
| 31) METHYLENE CHLORIDE | 2.747 | 84 | 255502 | 15.64 | PPBV | | 99 |
| 32) 3-CHLOROPROPENE | 2.789 | 76 | 137721 | 20.20 | PPBV | | 99 |
| 33) FREON 113 | 2.843 | 151 | 482307 | 22.76 | PPBV | | 100 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 233895 | 21.81 | PPBV | | 100 |
| 35) TERTIARY BUTYL ALCOHOL | 2.721 | 59 | 721034 | 21.25 | PPBV | | 98 |
| 36) METHYL TERTIARY BUTYL ... | 3.187 | 73 | 606051 | 21.92 | PPBV | | 100 |
| 37) TETRAHYDROFURAN | 3.901 | 72 | 108695 | 24.06 | PPBV | | 99 |
| 38) HEXANE | 3.663 | 57 | 415582 | 22.90 | PPBV | | 100 |
| 39) VINYL ACETATE | 3.229 | 86 | 64034 | 25.97 | PPBV | | 99 |
| 40) 1,1-DICHLOROETHANE | 3.155 | 63 | 420818 | 21.97 | PPBV | | 100 |
| 41) METHYL ETHYL KETONE | 3.326 | 72 | 111776 | 24.57 | PPBV | | 98 |
| 42) CIS-1,2-DICHLOROETHENE | 3.531 | 96 | 252348 | 21.70 | PPBV | | 100 |
| 43) DIISOPROPYL ETHER | 3.666 | 59 | 123383 | 23.44 | PPBV | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61017.D
Acq On : 19 Aug 2022 3:08 pm
Operator : thomash
Sample : ic2709-20
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:50 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.670 | 61 | 86776 | 13.76 | PPBV | | 99 |
| 45) METHYL ACRYLATE | 3.657 | 55 | 510404 | 24.79 | PPBV | # | 100 |
| 46) CHLOROFORM | 3.686 | 83 | 513909 | 22.13 | PPBV | | 99 |
| 47) 2,4-DIMETHYLPENTANE | 4.194 | 57 | 470856 | 21.45 | PPBV | | 99 |
| 48) 1,1,1-TRICHLOROETHANE | 4.277 | 97 | 527043 | 22.94 | PPBV | | 100 |
| 49) CARBON TETRACHLORIDE | 4.711 | 117 | 542697 | 24.68 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 4.107 | 62 | 348365 | 21.95 | PPBV | # | 100 |
| 51) BENZENE | 4.596 | 78 | 725030 | 21.38 | PPBV | | 100 |
| 53) CYCLOHEXANE | 4.811 | 84 | 317297 | 21.70 | PPBV | | 99 |
| 54) 2,3-DIMETHYLPENTANE | 5.072 | 71 | 158286 | 22.42 | PPBV | | 99 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 339829 | 23.18 | PPBV | | 99 |
| 56) 1,2-DICHLOROPROPANE | 5.281 | 63 | 287533 | 21.88 | PPBV | | 99 |
| 57) DIBROMOMETHANE | 5.239 | 174 | 322093 | 21.10 | PPBV | | 99 |
| 58) ETHYL ACRYLATE | 5.396 | 55 | 594434 | 26.49 | PPBV | | 100 |
| 59) BROMODICHLOROMETHANE | 5.464 | 83 | 560295 | 24.43 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 1253824 | 21.49 | PPBV | | 100 |
| 61) 1,4-DIOXANE | 5.522 | 88 | 158700 | 23.36 | PPBV | | 100 |
| 62) HEPTANE | 5.936 | 43 | 393688 | 21.58 | PPBV | | 100 |
| 63) METHYL METHACRYLATE | 5.827 | 69 | 268959 | 25.91 | PPBV | | 98 |
| 64) METHYL ISOBUTYL KETONE | 6.570 | 58 | 230494 | 27.53 | PPBV | | 99 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.473 | 75 | 415505 | 25.82 | PPBV | | 99 |
| 66) TOLUENE | 7.702 | 91 | 918264 | 22.25 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.760 | 76 | 441470 | 22.77 | PPBV | | 100 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.158 | 75 | 385600 | 27.47 | PPBV | | 100 |
| 69) 1,1,2-TRICHLOROETHANE | 7.322 | 83 | 269908 | 22.48 | PPBV | | 100 |
| 70) 2-HEXANONE | 8.264 | 58 | 286596 | 46.93 | PPBV | # | 1 |
| 71) ETHYL METHACRYLATE | 8.403 | 69 | 428085 | 30.73 | PPBV | | 99 |
| 72) TETRACHLOROETHENE | 9.451 | 164 | 360632 | 21.23 | PPBV | | 99 |
| 73) DIBROMOCHLOROMETHANE | 8.242 | 129 | 589014 | 27.69 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.592 | 107 | 512775 | 24.13 | PPBV | | 99 |
| 75) OCTANE | 9.589 | 43 | 544929 | 22.63 | PPBV | | 100 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.679 | 131 | 406522 | 24.98 | PPBV | | 100 |
| 78) CHLOROBENZENE | 10.669 | 112 | 759439 | 22.31 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.550 | 91 | 1229285 | 22.97 | PPBV | | 100 |
| 80) M,P-XYLENE | 11.984 | 91 | 1875142 | 57.69 | PPBV | | 97 |
| 81) O-XYLENE | 12.927 | 91 | 960134 | 23.25 | PPBV | | 98 |
| 82) STYRENE | 12.708 | 104 | 729709 | 25.85 | PPBV | | 99 |
| 83) NONANE | 14.036 | 43 | 572888 | 22.13 | PPBV | | 99 |
| 84) BROMOFORM | 11.798 | 173 | 560231 | 32.59 | PPBV | | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.933 | 83 | 706794 | 22.85 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.216 | 75 | 509259 | 22.12 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.441 | 120 | 405394 | 23.03 | PPBV | | 100 |
| 89) BROMOBENZENE | 14.312 | 77 | 655507 | 22.69 | PPBV | | 99 |
| 90) 2-CHLOROTOLUENE | 15.447 | 126 | 343056 | 24.83 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.785 | 120 | 385371 | 24.43 | PPBV | | 100 |
| 92) 4-ETHYLTOLUENE | 16.148 | 105 | 1435811 | 25.24 | PPBV | | 100 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.306 | 105 | 1192682 | 25.09 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.505 | 118 | 527450 | 27.71 | PPBV | | 100 |
| 95) TERT-BUTYLBENZENE | 16.766 | 134 | 303824 | 25.44 | PPBV | | 97 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.772 | 105 | 1293755 | 26.51 | PPBV | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61017.D
Acq On : 19 Aug 2022 3:08 pm
Operator : thomash
Sample : ic2709-20
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:50 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:08 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.852 | 91 | 905981 | 39.94 | PPBV | | 100 |
| 98) | M-DICHLOROBENZENE | 16.830 | 146 | 829871 | 24.83 | PPBV | | 99 |
| 99) | P-DICHLOROBENZENE | 16.913 | 146 | 840356 | 24.71 | PPBV | | 100 |
| 100) | O-DICHLOROBENZENE | 17.209 | 146 | 806160 | 24.67 | PPBV | | 99 |
| 101) | SEC-BUTYLBENZENE | 17.042 | 134 | 371849 | 24.70 | PPBV | | 98 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.155 | 105 | 1213480 | 25.58 | PPBV | | 100 |
| 103) | P-ISOPROPYLTOLUENE | 17.222 | 134 | 415269 | 25.65 | PPBV | | 97 |
| 104) | N-BUTYLBENZENE | 17.569 | 134 | 392160 | 26.91 | PPBV | | 98 |
| 105) | HEXACHLOROETHANE | 17.746 | 117 | 507678 | 34.05 | PPBV | | 100 |
| 106) | HEXACHLOROBUTADIENE | 18.794 | 225 | 605947 | 25.92 | PPBV | # | 1 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.486 | 180 | 701617 | 28.80 | PPBV | | 99 |
| 108) | NAPHTHALENE | 18.534 | 128 | 1757343 | 31.33 | PPBV | | 100 |

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

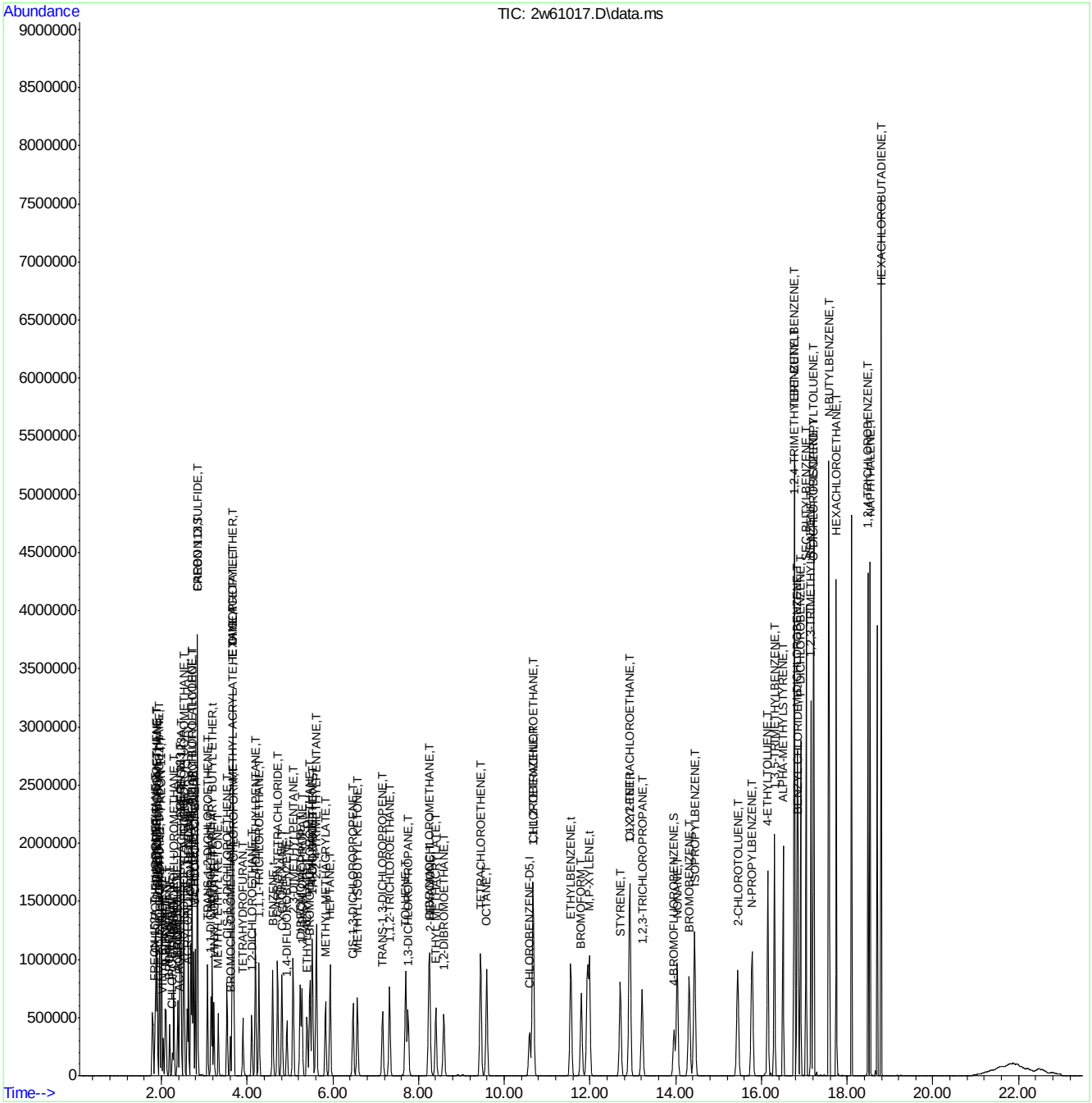
7.7.18

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61017.D
Acq On : 19 Aug 2022 3:08 pm
Operator : thomash
Sample : ic2709-20
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:50 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:08 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61018.D
Acq On : 19 Aug 2022 3:45 pm
Operator : thomash
Sample : ic2709-40
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:50 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.615 | 128 | 75390 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.933 | 114 | 391613 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.592 | 117 | 360276 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.965 | 95 | 245334 | 10.32 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.850 | 65 | 243126 | 38.17 | PPBV | | 99 |
| 4) CHLORODIFLUOROMETHANE | 1.866 | 67 | 109188 | 39.04 | PPBV | | 100 |
| 5) CHLOROTRIFLUOROETHENE | 1.882 | 116 | 627638 | 38.52 | PPBV | | 96 |
| 6) DICHLORODIFLUOROMETHANE | 1.901 | 85 | 1479485 | 39.57 | PPBV | # | 73 |
| 7) PROPYLENE | 1.879 | 41 | 251353 | 34.44 | PPBV | | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.953 | 65 | 1121396 | 40.14 | PPBV | | 99 |
| 9) FREON 114 | 1.998 | 85 | 1334611 | 39.88 | PPBV | | 100 |
| 10) CHLOROMETHANE | 1.959 | 52 | 136086 | 34.83 | PPBV | | 96 |
| 11) VINYL CHLORIDE | 2.043 | 62 | 495818 | 37.56 | PPBV | | 99 |
| 12) 1,3-BUTADIENE | 2.091 | 54 | 386427 | 38.02 | PPBV | | 98 |
| 13) N-BUTANE | 2.113 | 43 | 635409 | 34.69 | PPBV | | 98 |
| 14) BROMOMETHANE | 2.191 | 94 | 445982 | 37.16 | PPBV | | 100 |
| 15) CHLOROETHANE | 2.255 | 64 | 273621 | 39.23 | PPBV | | 97 |
| 16) DICHLOROFLUOROMETHANE | 2.287 | 67 | 1080427 | 38.75 | PPBV | | 99 |
| 17) ACETONITRILE | 2.374 | 41 | 377221 | 34.81 | PPBV | | 99 |
| 18) ACROLEIN | 2.422 | 56 | 224446 | 57.96 | PPBV | | 99 |
| 19) FREON 123 | 2.438 | 83 | 1232627 | 40.34 | PPBV | | 99 |
| 20) FREON 123A | 2.457 | 117 | 705506 | 39.64 | PPBV | | 100 |
| 21) TRICHLOROFLUOROMETHANE | 2.522 | 101 | 1556028 | 40.65 | PPBV | # | 1 |
| 22) ISOPROPYL ALCOHOL | 2.538 | 45 | 1119289 | 34.68 | PPBV | | 98 |
| 23) ACETONE | 2.464 | 58 | 308439 | 27.92 | PPBV | | 99 |
| 24) PENTANE | 2.631 | 42 | 617378 | 35.22 | PPBV | | 99 |
| 25) IODOMETHANE | 2.689 | 142 | 1493248 | 39.55 | PPBV | | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.715 | 96 | 580473 | 39.19 | PPBV | | 100 |
| 27) CARBON DISULFIDE | 2.846 | 76 | 1878046 | 43.18 | PPBV | # | 83 |
| 28) ETHANOL | 2.293 | 45 | 191387 | 28.01 | PPBV | | 99 |
| 29) BROMOETHENE | 2.383 | 106 | 479632 | 40.19 | PPBV | # | 100 |
| 30) ACRYLONITRILE | 2.605 | 52 | 443598 | 37.65 | PPBV | | 99 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 522774 | 28.54 | PPBV | | 98 |
| 32) 3-CHLOROPROPENE | 2.792 | 76 | 285712 | 36.57 | PPBV | | 98 |
| 33) FREON 113 | 2.846 | 151 | 1022349 | 41.55 | PPBV | | 99 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 487483 | 39.39 | PPBV | | 99 |
| 35) TERTIARY BUTYL ALCOHOL | 2.724 | 59 | 1519448 | 38.88 | PPBV | | 97 |
| 36) METHYL TERTIARY BUTYL ... | 3.191 | 73 | 1266667 | 39.60 | PPBV | | 99 |
| 37) TETRAHYDROFURAN | 3.901 | 72 | 221246 | 42.07 | PPBV | | 97 |
| 38) HEXANE | 3.666 | 57 | 899527 | 42.66 | PPBV | | 98 |
| 39) VINYL ACETATE | 3.232 | 86 | 133347 | 45.84 | PPBV | | 95 |
| 40) 1,1-DICHLOROETHANE | 3.158 | 63 | 870922 | 39.34 | PPBV | | 100 |
| 41) METHYL ETHYL KETONE | 3.332 | 72 | 227283 | 42.69 | PPBV | | 98 |
| 42) CIS-1,2-DICHLOROETHENE | 3.535 | 96 | 508335 | 37.86 | PPBV | | 98 |
| 43) DIISOPROPYL ETHER | 3.673 | 59 | 266606 | 43.42 | PPBV | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61018.D
Acq On : 19 Aug 2022 3:45 pm
Operator : thomash
Sample : ic2709-40
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:50 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.676 | 61 | 188065 | 26.72 | PPBV | | 97 |
| 45) METHYL ACRYLATE | 3.663 | 55 | 1105429 | 45.81 | PPBV | # | 100 |
| 46) CHLOROFORM | 3.692 | 83 | 1082305 | 40.27 | PPBV | | 100 |
| 47) 2,4-DIMETHYLPENTANE | 4.200 | 57 | 977707 | 38.62 | PPBV | | 99 |
| 48) 1,1,1-TRICHLOROETHANE | 4.280 | 97 | 1088934 | 40.76 | PPBV | | 100 |
| 49) CARBON TETRACHLORIDE | 4.715 | 117 | 1142602 | 44.30 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 4.110 | 62 | 715755 | 39.04 | PPBV | # | 100 |
| 51) BENZENE | 4.599 | 78 | 1483442 | 37.93 | PPBV | | 100 |
| 53) CYCLOHEXANE | 4.814 | 84 | 643536 | 39.15 | PPBV | | 99 |
| 54) 2,3-DIMETHYLPENTANE | 5.078 | 71 | 324995 | 40.80 | PPBV | | 99 |
| 55) TRICHLOROETHENE | 5.525 | 95 | 699614 | 42.11 | PPBV | | 100 |
| 56) 1,2-DICHLOROPROPANE | 5.287 | 63 | 590498 | 39.88 | PPBV | | 100 |
| 57) DIBROMOMETHANE | 5.242 | 174 | 662597 | 38.64 | PPBV | | 99 |
| 58) ETHYL ACRYLATE | 5.403 | 55 | 1255805 | 48.62 | PPBV | | 100 |
| 59) BROMODICHLOROMETHANE | 5.470 | 83 | 1173368 | 44.86 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.618 | 57 | 2607491 | 39.76 | PPBV | | 100 |
| 61) 1,4-DIOXANE | 5.528 | 88 | 329741 | 42.73 | PPBV | | 98 |
| 62) HEPTANE | 5.943 | 43 | 829090 | 40.40 | PPBV | | 98 |
| 63) METHYL METHACRYLATE | 5.830 | 69 | 556396 | 46.76 | PPBV | | 96 |
| 64) METHYL ISOBUTYL KETONE | 6.576 | 58 | 480170 | 49.71 | PPBV | | 97 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.477 | 75 | 876146 | 47.38 | PPBV | | 98 |
| 66) TOLUENE | 7.705 | 91 | 1887113 | 40.52 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.763 | 76 | 911052 | 41.59 | PPBV | | 99 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.165 | 75 | 823795 | 50.64 | PPBV | | 98 |
| 69) 1,1,2-TRICHLOROETHANE | 7.329 | 83 | 557236 | 41.06 | PPBV | | 99 |
| 70) 2-HEXANONE | 8.271 | 58 | 601548 | 78.64 | PPBV | # | 1 |
| 71) ETHYL METHACRYLATE | 8.409 | 69 | 889580 | 54.47 | PPBV | | 98 |
| 72) TETRACHLOROETHENE | 9.451 | 164 | 738323 | 38.73 | PPBV | | 97 |
| 73) DIBROMOCHLOROMETHANE | 8.245 | 129 | 1239625 | 50.25 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.599 | 107 | 1054110 | 43.59 | PPBV | | 99 |
| 75) OCTANE | 9.599 | 43 | 1141955 | 41.95 | PPBV | | 99 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.685 | 131 | 855771 | 46.52 | PPBV | | 99 |
| 78) CHLOROBENZENE | 10.673 | 112 | 1582955 | 41.73 | PPBV | | 100 |
| 79) ETHYLBENZENE | 11.557 | 91 | 2541811 | 42.50 | PPBV | | 100 |
| 80) M,P-XYLENE | 11.994 | 91 | 3883185 | 104.34 | PPBV | | 98 |
| 81) O-XYLENE | 12.933 | 91 | 2007144 | 43.45 | PPBV | | 97 |
| 82) STYRENE | 12.714 | 104 | 1514814 | 47.47 | PPBV | | 99 |
| 83) NONANE | 14.042 | 43 | 1218804 | 42.33 | PPBV | | 97 |
| 84) BROMOFORM | 11.808 | 173 | 1194818 | 59.29 | PPBV | | 100 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.943 | 83 | 1484129 | 42.96 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.225 | 75 | 1060322 | 41.43 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.451 | 120 | 838695 | 42.65 | PPBV | | 98 |
| 89) BROMOBENZENE | 14.322 | 77 | 1365994 | 42.38 | PPBV | | 98 |
| 90) 2-CHLOROTOLUENE | 15.454 | 126 | 705214 | 45.27 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.788 | 120 | 795411 | 44.86 | PPBV | | 99 |
| 92) 4-ETHYLTOLUENE | 16.155 | 105 | 3031201 | 47.13 | PPBV | | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.309 | 105 | 2528639 | 47.03 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.508 | 118 | 1119624 | 51.43 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.769 | 134 | 667647 | 49.35 | PPBV | | 96 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.778 | 105 | 2882549 | 51.70 | PPBV | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61018.D
Acq On : 19 Aug 2022 3:45 pm
Operator : thomash
Sample : ic2709-40
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:50 2022
Response via : Initial Calibration

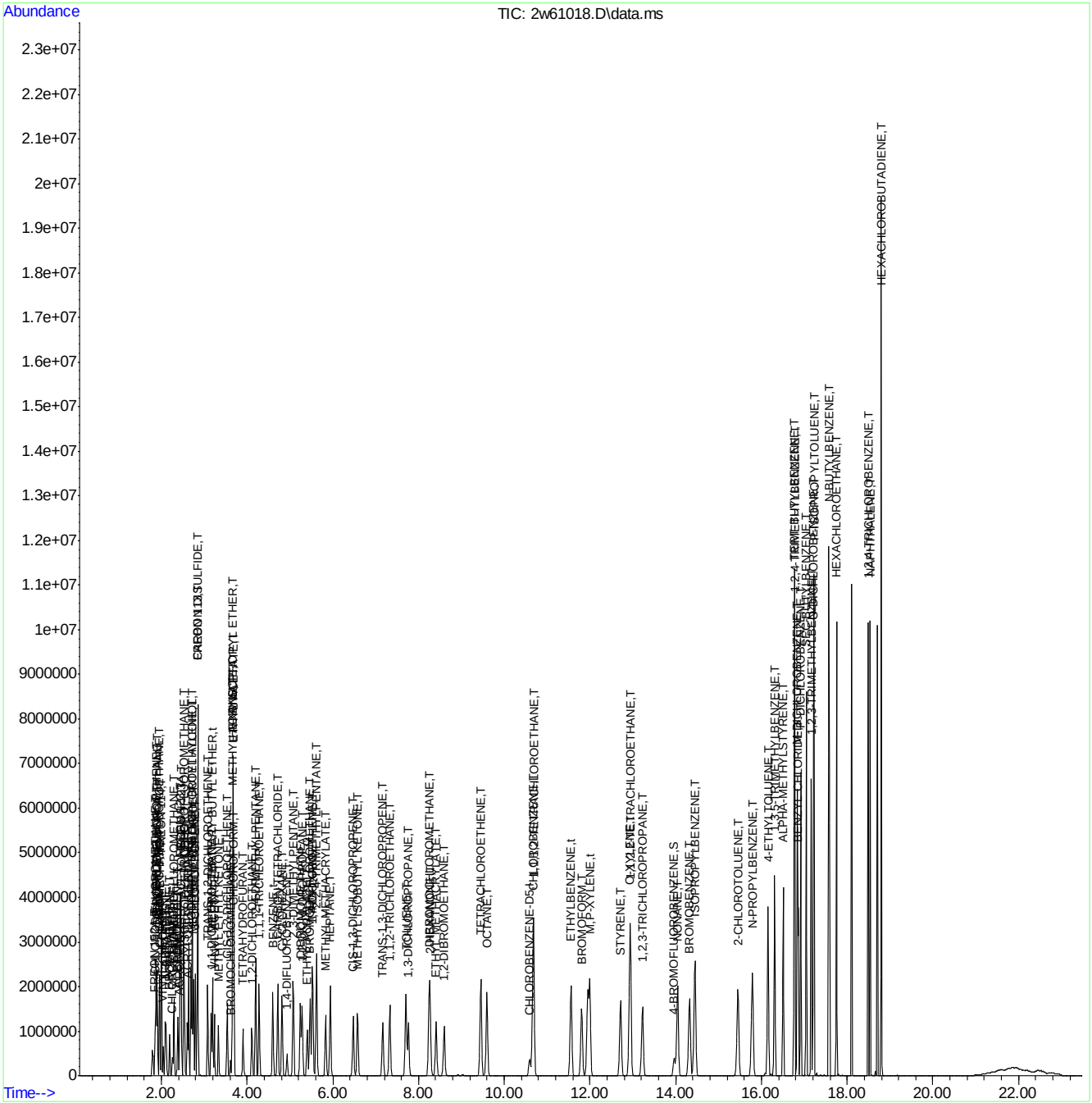
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) BENZYL CHLORIDE | 16.859 | 91 | 2078990 | 74.66 | PPBV | | 99 |
| 98) M-DICHLOROBENZENE | 16.836 | 146 | 1772351 | 46.91 | PPBV | | 99 |
| 99) P-DICHLOROBENZENE | 16.917 | 146 | 1801589 | 46.89 | PPBV | | 100 |
| 100) O-DICHLOROBENZENE | 17.212 | 146 | 1779127 | 48.14 | PPBV | | 98 |
| 101) SEC-BUTYLBENZENE | 17.045 | 134 | 808180 | 47.53 | PPBV | | 98 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.161 | 105 | 2606792 | 48.43 | PPBV | | 100 |
| 103) P-ISOPROPYLTOLUENE | 17.225 | 134 | 931126 | 50.64 | PPBV | | 95 |
| 104) N-BUTYLBENZENE | 17.573 | 134 | 886723 | 53.25 | PPBV | | 99 |
| 105) HEXACHLOROETHANE | 17.749 | 117 | 1187726 | 67.07 | PPBV | | 99 |
| 106) HEXACHLOROBUTADIENE | 18.801 | 225 | 1615377 | 60.47 | PPBV | # | 1 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.492 | 180 | 1688831 | 59.89 | PPBV | | 99 |
| 108) NAPHTHALENE | 18.540 | 128 | 4191967 | 63.79 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61018.D
Acq On : 19 Aug 2022 3:45 pm
Operator : thomash
Sample : ic2709-40
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:50 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/24/22 15:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61019.D
Acq On : 19 Aug 2022 4:25 pm
Operator : thomash
Sample : ic2709-50
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 19:37:53 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.612 | 128 | 77394 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 400362 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.592 | 117 | 371357 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.965 | 95 | 257117 | 10.44 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.847 | 65 | 315555m | 48.63 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.863 | 67 | 143977 | 50.35 | PPBV | | 100 |
| 5) CHLOROTRIFLUOROETHENE | 1.879 | 116 | 809484 | 48.69 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.901 | 85 | 1895074 | 49.46 | PPBV | # | 73 |
| 7) PROPYLENE | 1.876 | 41 | 334863 | 45.75 | PPBV | | 100 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.950 | 65 | 1477691 | 51.50 | PPBV | | 99 |
| 9) FREON 114 | 1.998 | 85 | 1751141 | 51.00 | PPBV | | 100 |
| 10) CHLOROMETHANE | 1.956 | 52 | 174894 | 44.57 | PPBV | | 95 |
| 11) VINYL CHLORIDE | 2.040 | 62 | 644264 | 48.03 | PPBV | | 100 |
| 12) 1,3-BUTADIENE | 2.091 | 54 | 498868 | 48.21 | PPBV | | 97 |
| 13) N-BUTANE | 2.110 | 43 | 827226 | 44.99 | PPBV | | 98 |
| 14) BROMOMETHANE | 2.187 | 94 | 580384 | 47.68 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.252 | 64 | 348977 | 48.90 | PPBV | | 100 |
| 16) DICHLOROFLUOROMETHANE | 2.284 | 67 | 1407828 | 49.44 | PPBV | | 99 |
| 17) ACETONITRILE | 2.374 | 41 | 489019 | 44.93 | PPBV | | 100 |
| 18) ACROLEIN | 2.419 | 56 | 293260 | 68.63 | PPBV | | 98 |
| 19) FREON 123 | 2.435 | 83 | 1628741 | 51.85 | PPBV | | 98 |
| 20) FREON 123A | 2.454 | 117 | 928262 | 50.88 | PPBV | | 100 |
| 21) TRICHLOROFLUOROMETHANE | 2.522 | 101 | 2030125 | 51.52 | PPBV | # | 1 |
| 22) ISOPROPYL ALCOHOL | 2.535 | 45 | 1478260 | 45.63 | PPBV | | 97 |
| 23) ACETONE | 2.461 | 58 | 400082 | 37.15 | PPBV | | 97 |
| 24) PENTANE | 2.631 | 42 | 817306 | 46.35 | PPBV | | 98 |
| 25) IODOMETHANE | 2.689 | 142 | 1964647 | 50.79 | PPBV | | 99 |
| 26) 1,1-DICHLOROETHYLENE | 2.715 | 96 | 765307 | 50.50 | PPBV | | 99 |
| 27) CARBON DISULFIDE | 2.843 | 76 | 2507798 | 55.43 | PPBV | # | 83 |
| 28) ETHANOL | 2.290 | 45 | 246846 | 37.04 | PPBV | | 100 |
| 29) BROMOETHENE | 2.384 | 106 | 620196 | 50.58 | PPBV | # | 100 |
| 30) ACRYLONITRILE | 2.605 | 52 | 578727 | 48.33 | PPBV | | 99 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 678951 | 37.92 | PPBV | | 98 |
| 32) 3-CHLOROPROPENE | 2.789 | 76 | 376811 | 47.66 | PPBV | | 96 |
| 33) FREON 113 | 2.843 | 151 | 1361647 | 53.56 | PPBV | | 99 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 628136 | 49.57 | PPBV | | 98 |
| 35) TERTIARY BUTYL ALCOHOL | 2.724 | 59 | 2025223 | 50.71 | PPBV | | 96 |
| 36) METHYL TERTIARY BUTYL ... | 3.191 | 73 | 1679213 | 51.22 | PPBV | | 99 |
| 37) TETRAHYDROFURAN | 3.901 | 72 | 286227 | 52.56 | PPBV | | 94 |
| 38) HEXANE | 3.667 | 57 | 1194401 | 54.57 | PPBV | | 97 |
| 39) VINYL ACETATE | 3.232 | 86 | 173783 | 56.81 | PPBV | | 90 |
| 40) 1,1-DICHLOROETHANE | 3.158 | 63 | 1140199 | 50.31 | PPBV | | 100 |
| 41) METHYL ETHYL KETONE | 3.329 | 72 | 297332 | 53.80 | PPBV | | 95 |
| 42) CIS-1,2-DICHLOROETHENE | 3.535 | 96 | 666224 | 48.77 | PPBV | | 98 |
| 43) DIISOPROPYL ETHER | 3.670 | 59 | 355381 | 55.59 | PPBV | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61019.D
Acq On : 19 Aug 2022 4:25 pm
Operator : thomash
Sample : ic2709-50
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 19:37:53 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.676 | 61 | 250108 | 36.64 | PPBV | | 95 |
| 45) METHYL ACRYLATE | 3.663 | 55 | 1472760 | 58.04 | PPBV | # | 99 |
| 46) CHLOROFORM | 3.692 | 83 | 1421306 | 51.45 | PPBV | | 99 |
| 47) 2,4-DIMETHYLPENTANE | 4.197 | 57 | 1278310 | 49.47 | PPBV | | 99 |
| 48) 1,1,1-TRICHLOROETHANE | 4.281 | 97 | 1433988 | 52.12 | PPBV | | 100 |
| 49) CARBON TETRACHLORIDE | 4.715 | 117 | 1506885 | 55.91 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 4.110 | 62 | 949510 | 50.66 | PPBV | # | 100 |
| 51) BENZENE | 4.599 | 78 | 1925702 | 48.38 | PPBV | | 99 |
| 53) CYCLOHEXANE | 4.814 | 84 | 836214 | 49.94 | PPBV | | 98 |
| 54) 2,3-DIMETHYLPENTANE | 5.075 | 71 | 423444 | 51.83 | PPBV | | 98 |
| 55) TRICHLOROETHENE | 5.525 | 95 | 914266 | 53.36 | PPBV | | 100 |
| 56) 1,2-DICHLOROPROPANE | 5.284 | 63 | 767273 | 50.71 | PPBV | | 99 |
| 57) DIBROMOMETHANE | 5.242 | 174 | 858284 | 49.24 | PPBV | | 99 |
| 58) ETHYL ACRYLATE | 5.403 | 55 | 1655767 | 60.53 | PPBV | | 100 |
| 59) BROMODICHLOROMETHANE | 5.470 | 83 | 1526784 | 55.96 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.618 | 57 | 3414105 | 50.97 | PPBV | | 99 |
| 61) 1,4-DIOXANE | 5.528 | 88 | 430490 | 53.95 | PPBV | | 98 |
| 62) HEPTANE | 5.940 | 43 | 1099665 | 52.33 | PPBV | | 97 |
| 63) METHYL METHACRYLATE | 5.834 | 69 | 723275 | 57.83 | PPBV | | 94 |
| 64) METHYL ISOBUTYL KETONE | 6.580 | 58 | 631337 | 61.44 | PPBV | | 97 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.477 | 75 | 1143849 | 58.70 | PPBV | | 97 |
| 66) TOLUENE | 7.705 | 91 | 2458882 | 51.53 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.766 | 76 | 1184302 | 52.54 | PPBV | | 99 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.165 | 75 | 1076417 | 61.97 | PPBV | | 98 |
| 69) 1,1,2-TRICHLOROETHANE | 7.329 | 83 | 720019 | 51.66 | PPBV | | 99 |
| 70) 2-HEXANONE | 8.274 | 58 | 789128 | 86.92 | PPBV | # | 1 |
| 71) ETHYL METHACRYLATE | 8.412 | 69 | 1161842 | 65.63 | PPBV | | 97 |
| 72) TETRACHLOROETHENE | 9.454 | 164 | 957285 | 49.38 | PPBV | | 98 |
| 73) DIBROMOCHLOROMETHANE | 8.245 | 129 | 1619881 | 61.60 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.602 | 107 | 1368683 | 54.55 | PPBV | | 99 |
| 75) OCTANE | 9.596 | 43 | 1503562 | 53.59 | PPBV | | 98 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.689 | 131 | 1128393 | 57.94 | PPBV | | 99 |
| 78) CHLOROBENZENE | 10.679 | 112 | 2056681 | 52.22 | PPBV | | 100 |
| 79) ETHYLBENZENE | 11.560 | 91 | 3310069 | 53.14 | PPBV | | 99 |
| 80) M,P-XYLENE | 12.001 | 91 | 5065239 | 125.67 | PPBV | | 99 |
| 81) O-XYLENE | 12.936 | 91 | 2631482 | 54.49 | PPBV | | 97 |
| 82) STYRENE | 12.718 | 104 | 1982079 | 58.44 | PPBV | | 99 |
| 83) NONANE | 14.052 | 43 | 1613964 | 53.86 | PPBV | | 96 |
| 84) BROMOFORM | 11.804 | 173 | 1577799 | 70.31 | PPBV | | 100 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.946 | 83 | 1950224 | 54.10 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.232 | 75 | 1393109 | 52.50 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.451 | 120 | 1095013 | 53.43 | PPBV | | 98 |
| 89) BROMOBENZENE | 14.325 | 77 | 1794640 | 53.49 | PPBV | | 97 |
| 90) 2-CHLOROTOLUENE | 15.457 | 126 | 923908 | 56.31 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.795 | 120 | 1041804 | 55.87 | PPBV | | 100 |
| 92) 4-ETHYLTOLUENE | 16.155 | 105 | 3996171 | 58.54 | PPBV | | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.309 | 105 | 3336015 | 58.48 | PPBV | | 100 |
| 94) ALPHA-METHYLSTYRENE | 16.508 | 118 | 1476907 | 62.83 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.772 | 134 | 895122 | 61.78 | PPBV | | 96 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.779 | 105 | 3861297 | 64.07 | PPBV | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61019.D
Acq On : 19 Aug 2022 4:25 pm
Operator : thomash
Sample : ic2709-50
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 19:37:53 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:08 2022
Response via : Initial Calibration

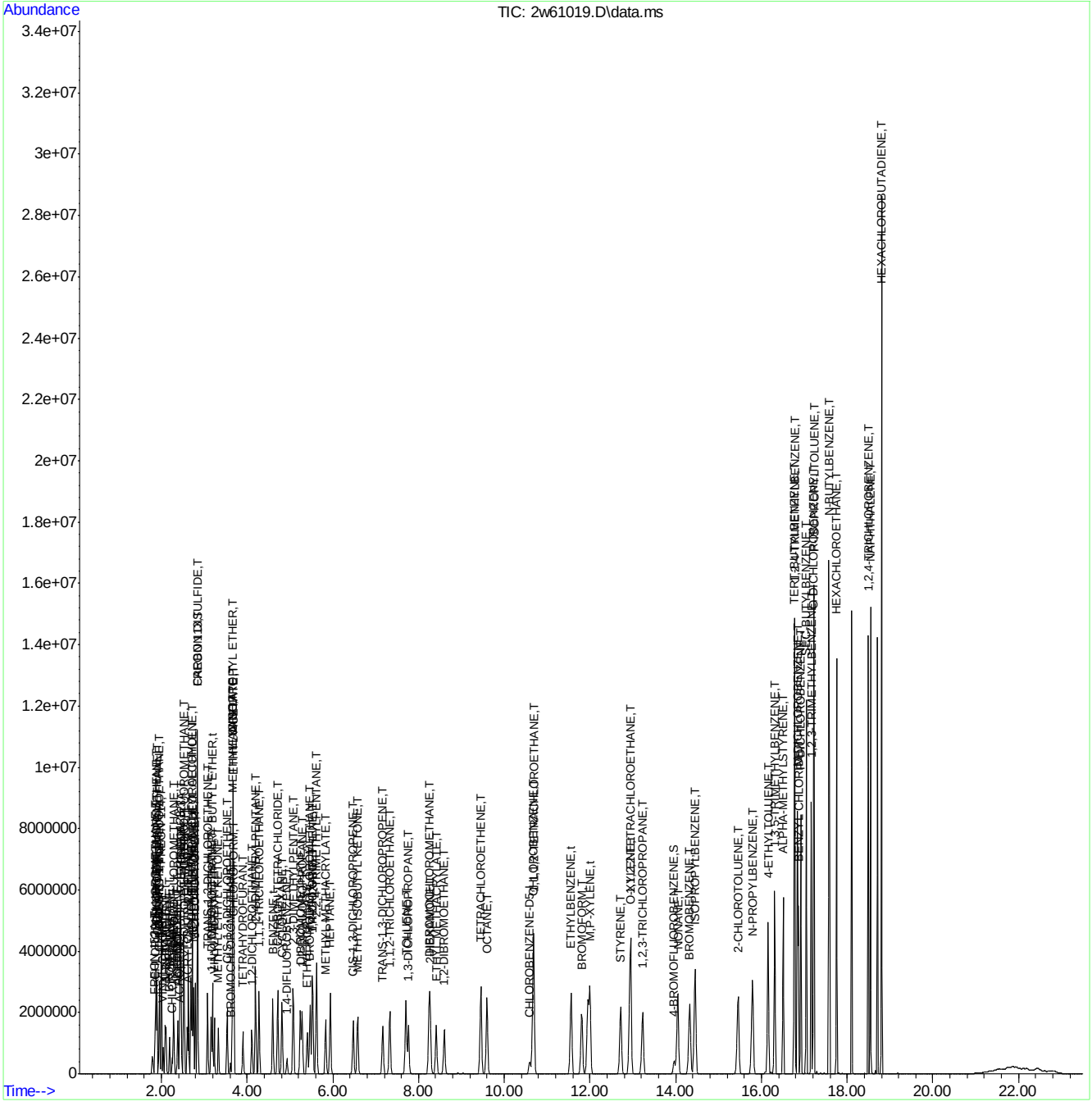
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.862 | 91 | 2793726 | 85.05 | PPBV | | 99 |
| 98) | M-DICHLOROBENZENE | 16.840 | 146 | 2345164 | 58.53 | PPBV | | 99 |
| 99) | P-DICHLOROBENZENE | 16.920 | 146 | 2374284 | 58.28 | PPBV | | 99 |
| 100) | O-DICHLOROBENZENE | 17.216 | 146 | 2419712 | 61.44 | PPBV | | 98 |
| 101) | SEC-BUTYLBENZENE | 17.049 | 134 | 1085639 | 60.06 | PPBV | | 99 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.161 | 105 | 3436170 | 59.83 | PPBV | | 100 |
| 103) | P-ISOPROPYLTOLUENE | 17.225 | 134 | 1280788 | 64.71 | PPBV | | 97 |
| 104) | N-BUTYLBENZENE | 17.576 | 134 | 1213660 | 67.01 | PPBV | | 100 |
| 105) | HEXACHLOROETHANE | 17.753 | 117 | 1612332 | 79.38 | PPBV | | 98 |
| 106) | HEXACHLOROBUTADIENE | 18.804 | 225 | 2411769 | 80.70 | PPBV | # | 1 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.495 | 180 | 2439677 | 77.51 | PPBV | | 99 |
| 108) | NAPHTHALENE | 18.544 | 128 | 6053114 | 81.30 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61019.D
Acq On : 19 Aug 2022 4:25 pm
Operator : thomash
Sample : ic2709-50
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 19:37:53 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:08 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



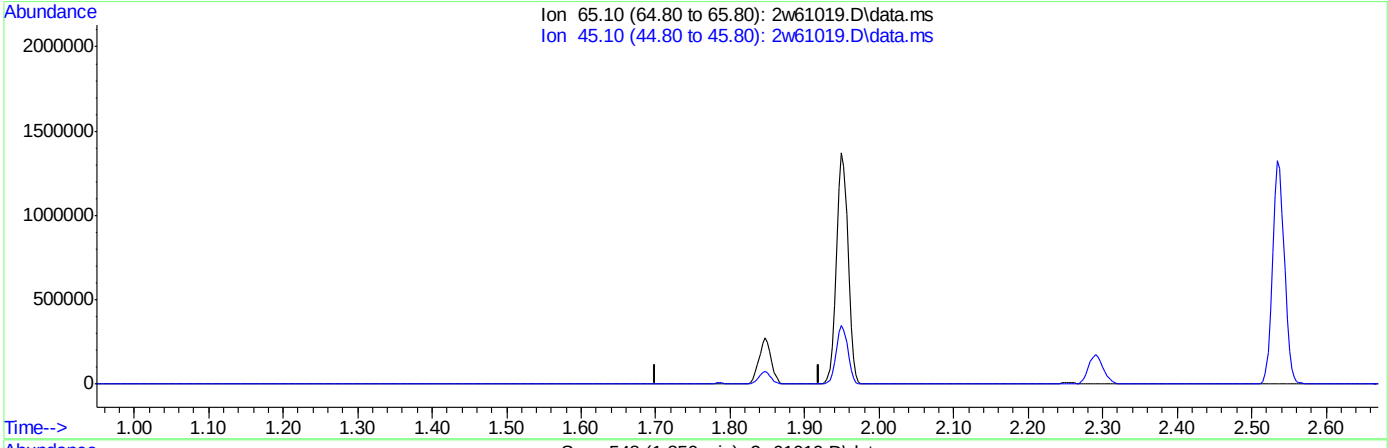
| | | | |
|---|---|---|---|
| **Sample Number:** | V2W2709-IC2709 | **Method:** | TO-15 |
| **Lab FileID:** | 2W61019.D | **Analyst approved:** | 08/23/22 17:35 Benjamin Kim |
| **Injection Time:** | 08/19/22 16:25 | **Supervisor approved:** | 08/24/22 15:08 Kanya Veerawat |

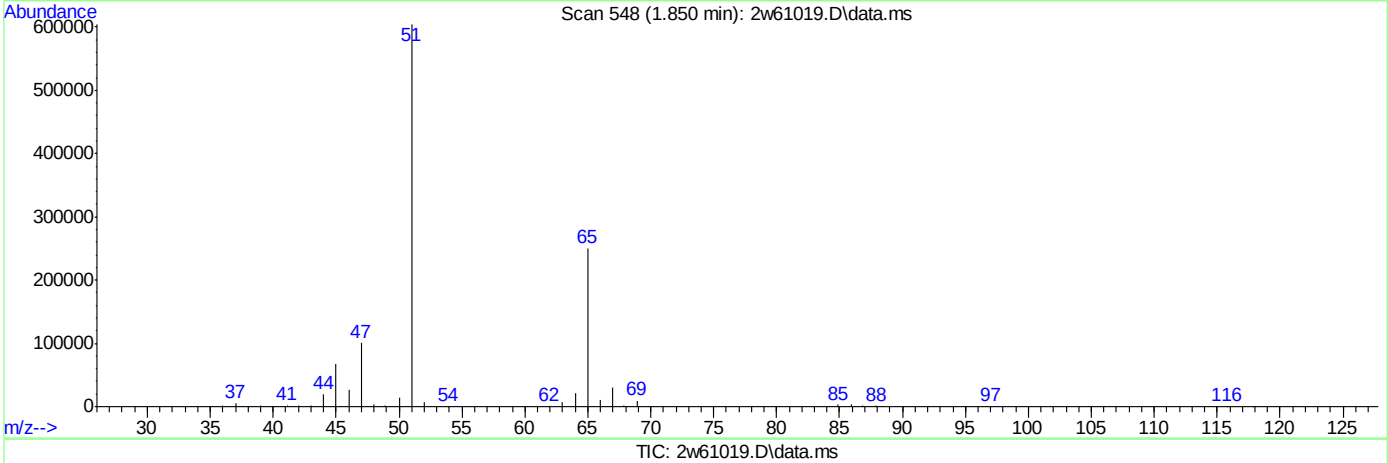
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.85 | Poor instrument integration |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61019.D
Acq On : 19 Aug 2022 4:25 pm
Operator : thomash
Sample : ic2709-50
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 22 22:02:21 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:08 2022
Response via : Initial Calibration




TIC: 2w61019.D\data.ms

(3) FREON 152A (T)

1.850min (-1.850) 0.00PPBV

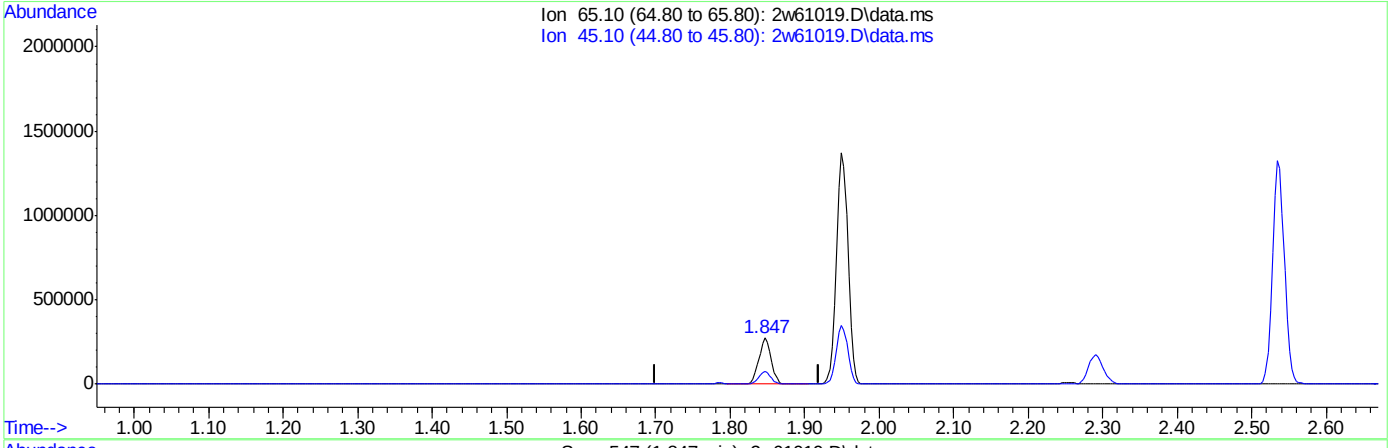
response 0

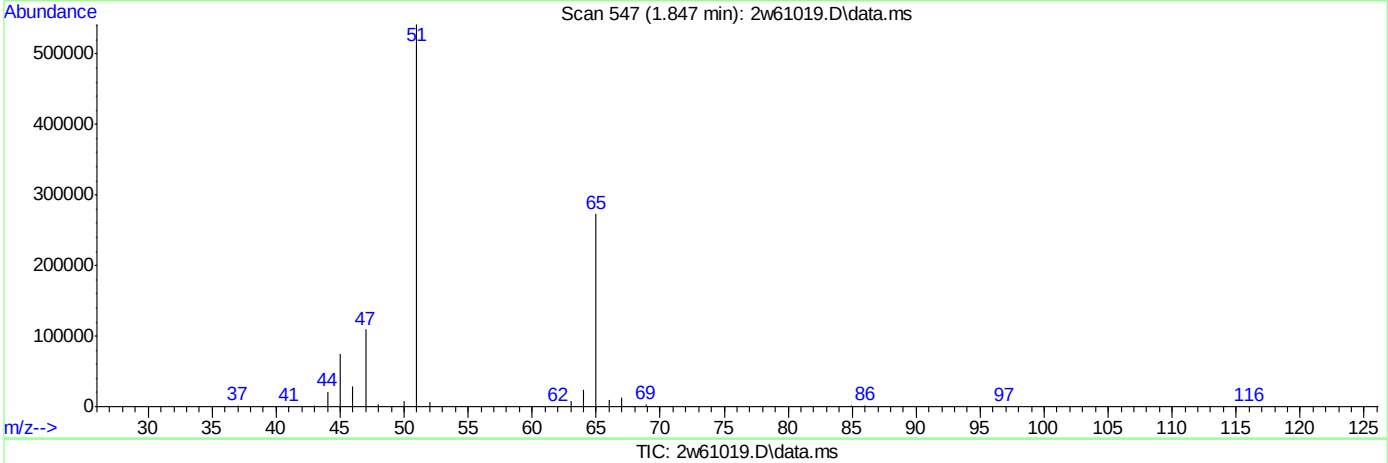
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 0.00 |
| 45.10 | 27.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61019.D
Acq On : 19 Aug 2022 4:25 pm
Operator : thomash
Sample : ic2709-50
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 22 22:02:21 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:08 2022
Response via : Initial Calibration




TIC: 2w61019.D\data.ms

(3) FREON 152A (T)

1.847min (-0.003) 48.63PPBV m

response 315555

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 27.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61022.D
Acq On : 19 Aug 2022 6:00 pm
Operator : thomash
Sample : icv2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 24 16:30:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.609 | 128 | 69572 | 10.00 | PPBV | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 377343 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.586 | 117 | 342378 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.959 | 95 | 233154 | 10.23 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 3) FREON 152A | 1.847 | 65 | 55825 | 9.55 | PPBV | # 100 |
| 4) CHLORODIFLUOROMETHANE | 1.863 | 67 | 24948 | 9.60 | PPBV | 100 |
| 5) CHLOROTRIFLUOROETHENE | 1.876 | 116 | 145033 | 9.65 | PPBV | # 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.898 | 85 | 329120 | 9.51 | PPBV | 100 |
| 7) PROPYLENE | 1.872 | 41 | 60462 | 9.25 | PPBV | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.950 | 65 | 248458 | 9.53 | PPBV | 99 |
| 9) FREON 114 | 1.995 | 85 | 294684 | 9.45 | PPBV | 100 |
| 10) CHLOROMETHANE | 1.956 | 52 | 31542 | 9.05 | PPBV | 98 |
| 11) VINYL CHLORIDE | 2.040 | 62 | 115708 | 9.56 | PPBV | 100 |
| 12) 1,3-BUTADIENE | 2.088 | 54 | 88588 | 9.47 | PPBV | 98 |
| 13) N-BUTANE | 2.110 | 43 | 146175 | 8.98 | PPBV | 99 |
| 14) BROMOMETHANE | 2.188 | 94 | 102293 | 9.35 | PPBV | 99 |
| 15) CHLOROETHANE | 2.252 | 64 | 64281 | 9.92 | PPBV | 97 |
| 16) DICHLOROFLUOROMETHANE | 2.284 | 67 | 242601 | 9.41 | PPBV | 99 |
| 17) ACETONITRILE | 2.371 | 41 | 86211 | 8.91 | PPBV | 100 |
| 18) ACROLEIN | 2.416 | 56 | 56710 | 13.27 | PPBV | 99 |
| 19) FREON 123 | 2.432 | 83 | 279397 | 9.76 | PPBV | 99 |
| 20) FREON 123A | 2.451 | 117 | 173270 | 10.46 | PPBV | 98 |
| 21) TRICHLOROFLUOROMETHANE | 2.519 | 101 | 348064 | 9.66 | PPBV | 100 |
| 22) ISOPROPYL ALCOHOL | 2.535 | 45 | 251479 | 8.75 | PPBV | 99 |
| 23) ACETONE | 2.461 | 58 | 67611 | 7.37 | PPBV | 94 |
| 24) PENTANE | 2.628 | 42 | 140273 | 8.90 | PPBV | 100 |
| 25) IODOMETHANE | 2.686 | 142 | 342167 | 9.72 | PPBV | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.712 | 96 | 130542 | 9.44 | PPBV | 99 |
| 27) CARBON DISULFIDE | 2.843 | 76 | 371034 | 8.91 | PPBV | 100 |
| 28) ETHANOL | 2.290 | 45 | 49644 | 8.77 | PPBV | 98 |
| 29) BROMOETHENE | 2.380 | 106 | 108066 | 9.67 | PPBV | 98 |
| 30) ACRYLONITRILE | 2.602 | 52 | 101333 | 9.33 | PPBV | 99 |
| 31) METHYLENE CHLORIDE | 2.747 | 84 | 120067 | 7.83 | PPBV | 98 |
| 32) 3-CHLOROPROPENE | 2.789 | 76 | 65373 | 9.22 | PPBV | 97 |
| 33) FREON 113 | 2.843 | 151 | 218499 | 9.38 | PPBV | 99 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 110007 | 9.56 | PPBV | 99 |
| 35) TERTIARY BUTYL ALCOHOL | 2.721 | 59 | 314697 | 8.69 | PPBV | 99 |
| 36) METHYL TERTIARY BUTYL ... | 3.191 | 73 | 289972 | 9.72 | PPBV | 100 |
| 37) TETRAHYDROFURAN | 3.901 | 72 | 52189 | 10.38 | PPBV | 97 |
| 38) HEXANE | 3.663 | 57 | 198041 | 9.85 | PPBV | 99 |
| 39) VINYL ACETATE | 3.229 | 86 | 30669 | 10.82 | PPBV | 97 |
| 40) 1,1-DICHLOROETHANE | 3.155 | 63 | 202699 | 9.84 | PPBV | 100 |
| 41) METHYL ETHYL KETONE | 3.329 | 72 | 54942 | 10.72 | PPBV | 100 |
| 42) CIS-1,2-DICHLOROETHENE | 3.532 | 96 | 119711 | 9.69 | PPBV | 99 |
| 43) DIISOPROPYL ETHER | 3.670 | 59 | 58059 | 9.86 | PPBV | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61022.D
Acq On : 19 Aug 2022 6:00 pm
Operator : thomash
Sample : icv2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 24 16:30:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 44) | ETHYL ACETATE | 3.670 | 61 | 41362 | 10.04 | PPBV | | 100 |
| 45) | METHYL ACRYLATE | 3.660 | 55 | 239048 | 10.11 | PPBV | # | 99 |
| 46) | CHLOROFORM | 3.686 | 83 | 239751 | 9.52 | PPBV | | 99 |
| 47) | 2,4-DIMETHYLPENTANE | 4.194 | 57 | 225355 | 9.62 | PPBV | | 100 |
| 48) | 1,1,1-TRICHLOROETHANE | 4.277 | 97 | 248435 | 9.89 | PPBV | | 100 |
| 49) | CARBON TETRACHLORIDE | 4.712 | 117 | 254708 | 10.24 | PPBV | | 99 |
| 50) | 1,2-DICHLOROETHANE | 4.107 | 62 | 169333 | 9.93 | PPBV | | 100 |
| 51) | BENZENE | 4.596 | 78 | 350247 | 9.74 | PPBV | | 100 |
| 53) | CYCLOHEXANE | 4.811 | 84 | 154819 | 9.72 | PPBV | | 99 |
| 54) | 2,3-DIMETHYLPENTANE | 5.075 | 71 | 77693 | 9.93 | PPBV | | 99 |
| 55) | TRICHLOROETHENE | 5.519 | 95 | 163073 | 10.20 | PPBV | | 98 |
| 56) | 1,2-DICHLOROPROPANE | 5.277 | 63 | 137709 | 9.56 | PPBV | | 100 |
| 57) | DIBROMOMETHANE | 5.239 | 174 | 153992 | 9.36 | PPBV | | 99 |
| 58) | ETHYL ACRYLATE | 5.396 | 55 | 290302 | 10.72 | PPBV | | 100 |
| 59) | BROMODICHLOROMETHANE | 5.461 | 83 | 263033 | 9.96 | PPBV | | 99 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 608009 | 9.54 | PPBV | | 100 |
| 61) | 1,4-DIOXANE | 5.528 | 88 | 84294 | 10.91 | PPBV | | 99 |
| 62) | HEPTANE | 5.937 | 43 | 190987 | 9.52 | PPBV | | 99 |
| 63) | METHYL METHACRYLATE | 5.827 | 69 | 131443 | 10.69 | PPBV | | 98 |
| 64) | METHYL ISOBUTYL KETONE | 6.570 | 58 | 121016 | 11.79 | PPBV | | 99 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.474 | 75 | 211846 | 11.10 | PPBV | | 100 |
| 66) | TOLUENE | 7.695 | 91 | 444052 | 9.76 | PPBV | | 99 |
| 67) | 1,3-DICHLOROPROPANE | 7.756 | 76 | 212110 | 9.81 | PPBV | | 99 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.158 | 75 | 182630 | 10.67 | PPBV | | 99 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.322 | 83 | 128497 | 9.64 | PPBV | | 100 |
| 70) | 2-HEXANONE | 8.261 | 58 | 158976 | 11.06 | PPBV | | 99 |
| 71) | ETHYL METHACRYLATE | 8.399 | 69 | 216624 | 12.09 | PPBV | | 100 |
| 72) | TETRACHLOROETHENE | 9.448 | 164 | 175071 | 9.61 | PPBV | | 99 |
| 73) | DIBROMOCHLOROMETHANE | 8.239 | 129 | 273728 | 10.55 | PPBV | | 100 |
| 74) | 1,2-DIBROMOETHANE | 8.586 | 107 | 249451 | 10.28 | PPBV | | 99 |
| 75) | OCTANE | 9.589 | 43 | 262207 | 9.72 | PPBV | | 100 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.673 | 131 | 191213 | 10.31 | PPBV | | 100 |
| 78) | CHLOROBENZENE | 10.660 | 112 | 366678 | 9.96 | PPBV | | 99 |
| 79) | ETHYLBENZENE | 11.547 | 91 | 589389 | 10.05 | PPBV | | 100 |
| 80) | M,P-XYLENE | 11.985 | 91 | 909127 | 20.38 | PPBV | | 98 |
| 81) | O-XYLENE | 12.920 | 91 | 466547 | 10.23 | PPBV | | 97 |
| 82) | STYRENE | 12.705 | 104 | 364348 | 11.16 | PPBV | | 100 |
| 83) | NONANE | 14.029 | 43 | 277833 | 9.87 | PPBV | | 100 |
| 84) | BROMOFORM | 11.795 | 173 | 266309 | 11.29 | PPBV | | 100 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 12.923 | 83 | 342379 | 10.09 | PPBV | | 100 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.213 | 75 | 245959 | 9.88 | PPBV | # | 100 |
| 88) | ISOPROPYLBENZENE | 14.438 | 120 | 178061 | 9.21 | PPBV | | 100 |
| 89) | BROMOBENZENE | 14.309 | 77 | 312541 | 9.90 | PPBV | | 100 |
| 90) | 2-CHLOROTOLUENE | 15.444 | 126 | 165816 | 10.21 | PPBV | | 99 |
| 91) | N-PROPYLBENZENE | 15.779 | 120 | 185062 | 10.42 | PPBV | | 100 |
| 92) | 4-ETHYLTOLUENE | 16.145 | 105 | 691936 | 10.57 | PPBV | | 100 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.303 | 105 | 573950 | 10.51 | PPBV | | 100 |
| 94) | ALPHA-METHYLSTYRENE | 16.502 | 118 | 294628 | 12.82 | PPBV | | 100 |
| 95) | TERT-BUTYLBENZENE | 16.759 | 134 | 142637 | 10.21 | PPBV | | 97 |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.769 | 105 | 607360 | 10.40 | PPBV | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61022.D
Acq On : 19 Aug 2022 6:00 pm
Operator : thomash
Sample : icv2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 24 16:30:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

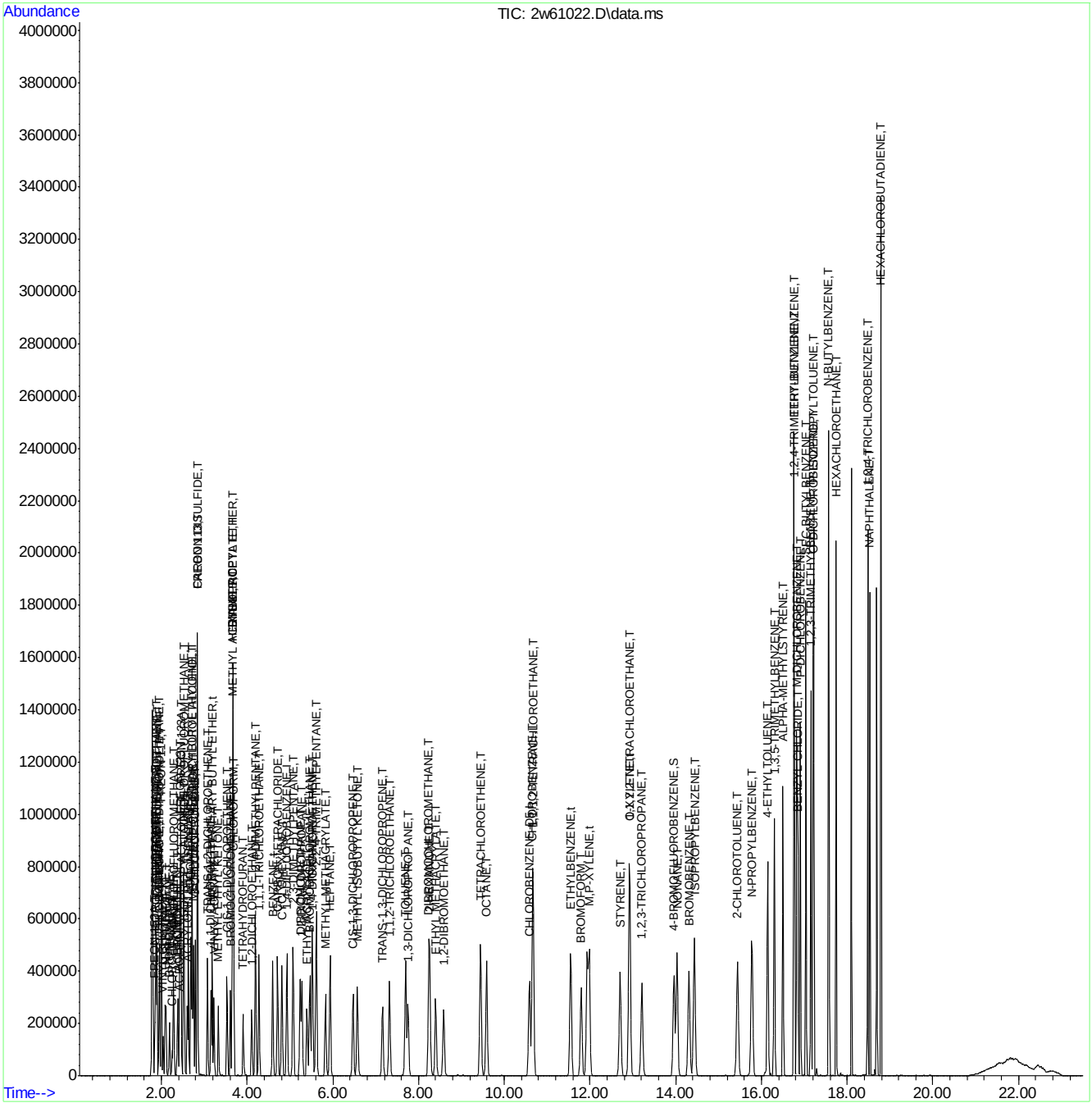
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.849 | 91 | 413519 | 11.44 | PPBV | 100 |
| 98) | M-DICHLOROBENZENE | 16.827 | 146 | 398111 | 10.38 | PPBV | 99 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 402996 | 10.36 | PPBV | 100 |
| 100) | O-DICHLOROBENZENE | 17.206 | 146 | 385593 | 10.21 | PPBV | 99 |
| 101) | SEC-BUTYLBENZENE | 17.039 | 134 | 175573 | 10.11 | PPBV | 99 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.152 | 105 | 575197 | 10.42 | PPBV | 100 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 193396 | 10.11 | PPBV | 99 |
| 104) | N-BUTYLBENZENE | 17.566 | 134 | 187841 | 10.62 | PPBV | 98 |
| 105) | HEXACHLOROETHANE | 17.743 | 117 | 233412 | 10.77 | PPBV | 99 |
| 106) | HEXACHLOROBUTADIENE | 18.788 | 225 | 280031 | 9.45 | PPBV | 100 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.479 | 180 | 336715 | 10.77 | PPBV | 99 |
| 108) | NAPHTHALENE | 18.528 | 128 | 779125 | 9.75 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61022.D
Acq On : 19 Aug 2022 6:00 pm
Operator : thomash
Sample : icv2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 24 16:30:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61024.D
Acq On : 24 Aug 2022 8:00 pm
Operator : thomash
Sample : cc2709-10
Misc : MS61038,V2w2710,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 20:28:37 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.615 | 128 | 74784 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 401710 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.589 | 117 | 365251 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.959 | 95 | 244108 | 10.04 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.843 | 65 | 62506 | 9.94 | PPBV | # | 100 |
| 4) CHLORODIFLUOROMETHANE | 1.863 | 67 | 27595 | 9.88 | PPBV | | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.879 | 116 | 165304 | 10.23 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.898 | 85 | 366823 | 9.86 | PPBV | | 100 |
| 7) PROPYLENE | 1.876 | 41 | 65924 | 9.39 | PPBV | | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.950 | 65 | 273704 | 9.77 | PPBV | | 99 |
| 9) FREON 114 | 1.995 | 85 | 330998 | 9.88 | PPBV | | 99 |
| 10) CHLOROMETHANE | 1.959 | 52 | 34691 | 9.26 | PPBV | | 99 |
| 11) VINYL CHLORIDE | 2.040 | 62 | 128413 | 9.87 | PPBV | | 99 |
| 12) 1,3-BUTADIENE | 2.088 | 54 | 98159 | 9.77 | PPBV | | 99 |
| 13) N-BUTANE | 2.110 | 43 | 160658 | 9.18 | PPBV | # | 98 |
| 14) BROMOMETHANE | 2.187 | 94 | 114368 | 9.73 | PPBV | | 100 |
| 15) CHLOROETHANE | 2.252 | 64 | 69629 | 10.00 | PPBV | | 96 |
| 16) DICHLOROFLUOROMETHANE | 2.284 | 67 | 269273 | 9.72 | PPBV | | 99 |
| 17) ACETONITRILE | 2.374 | 41 | 96397 | 9.26 | PPBV | | 100 |
| 18) ACROLEIN | 2.419 | 56 | 53997 | 11.76 | PPBV | | 99 |
| 19) FREON 123 | 2.435 | 83 | 300916 | 9.77 | PPBV | | 99 |
| 20) FREON 123A | 2.454 | 117 | 173664 | 9.75 | PPBV | | 99 |
| 21) TRICHLOROFLUOROMETHANE | 2.522 | 101 | 382086 | 9.87 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.535 | 45 | 276284 | 8.94 | PPBV | | 99 |
| 23) ACETONE | 2.461 | 58 | 78282 | 7.94 | PPBV | | 94 |
| 24) PENTANE | 2.631 | 42 | 151404 | 8.94 | PPBV | | 99 |
| 25) IODOMETHANE | 2.689 | 142 | 375242 | 9.91 | PPBV | | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.715 | 96 | 146786 | 9.88 | PPBV | | 97 |
| 27) CARBON DISULFIDE | 2.847 | 76 | 441158 | 9.86 | PPBV | | 99 |
| 28) ETHANOL | 2.290 | 45 | 48473 | 7.97 | PPBV | | 100 |
| 29) BROMOETHENE | 2.384 | 106 | 122001 | 10.16 | PPBV | | 99 |
| 30) ACRYLONITRILE | 2.605 | 52 | 111031 | 9.51 | PPBV | | 98 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 134720 | 8.17 | PPBV | | 97 |
| 32) 3-CHLOROPROPENE | 2.792 | 76 | 71735 | 9.41 | PPBV | | 98 |
| 33) FREON 113 | 2.843 | 151 | 249148 | 9.95 | PPBV | | 98 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 124170 | 10.03 | PPBV | | 98 |
| 35) TERTIARY BUTYL ALCOHOL | 2.721 | 59 | 378215 | 9.71 | PPBV | | 97 |
| 36) METHYL TERTIARY BUTYL ... | 3.191 | 73 | 320226 | 9.99 | PPBV | | 100 |
| 37) TETRAHYDROFURAN | 3.904 | 72 | 56324 | 10.42 | PPBV | | 98 |
| 38) HEXANE | 3.667 | 57 | 208399 | 9.64 | PPBV | | 99 |
| 39) VINYL ACETATE | 3.229 | 86 | 31964 | 10.49 | PPBV | | 98 |
| 40) 1,1-DICHLOROETHANE | 3.158 | 63 | 217946 | 9.84 | PPBV | | 100 |
| 41) METHYL ETHYL KETONE | 3.329 | 72 | 57752 | 10.49 | PPBV | | 99 |
| 42) CIS-1,2-DICHLOROETHENE | 3.535 | 96 | 132897 | 10.00 | PPBV | | 98 |
| 43) DIISOPROPYL ETHER | 3.670 | 59 | 62794 | 9.92 | PPBV | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61024.D
Acq On : 24 Aug 2022 8:00 pm
Operator : thomash
Sample : cc2709-10
Misc : MS61038,V2w2710,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 20:28:37 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.673 | 61 | 44075 | 9.95 | PPBV | | 96 |
| 45) METHYL ACRYLATE | 3.660 | 55 | 253089 | 9.96 | PPBV | # | 99 |
| 46) CHLOROFORM | 3.689 | 83 | 267459 | 9.88 | PPBV | | 99 |
| 47) 2,4-DIMETHYLPENTANE | 4.197 | 57 | 241222 | 9.58 | PPBV | | 99 |
| 48) 1,1,1-TRICHLOROETHANE | 4.277 | 97 | 270379 | 10.02 | PPBV | | 99 |
| 49) CARBON TETRACHLORIDE | 4.711 | 117 | 271861 | 10.16 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 4.110 | 62 | 179398 | 9.79 | PPBV | | 100 |
| 51) BENZENE | 4.596 | 78 | 382136 | 9.89 | PPBV | | 99 |
| 53) CYCLOHEXANE | 4.814 | 84 | 166377 | 9.82 | PPBV | | 97 |
| 54) 2,3-DIMETHYLPENTANE | 5.072 | 71 | 82387 | 9.90 | PPBV | | 98 |
| 55) TRICHLOROETHENE | 5.519 | 95 | 177284 | 10.41 | PPBV | | 98 |
| 56) 1,2-DICHLOROPROPANE | 5.284 | 63 | 149513 | 9.75 | PPBV | | 100 |
| 57) DIBROMOMETHANE | 5.239 | 174 | 170859 | 9.75 | PPBV | | 98 |
| 58) ETHYL ACRYLATE | 5.396 | 55 | 298977 | 10.38 | PPBV | | 100 |
| 59) BROMODICHLOROMETHANE | 5.464 | 83 | 286278 | 10.18 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 643352 | 9.48 | PPBV | | 100 |
| 61) 1,4-DIOXANE | 5.525 | 88 | 82643 | 10.04 | PPBV | | 98 |
| 62) HEPTANE | 5.940 | 43 | 199862 | 9.35 | PPBV | | 99 |
| 63) METHYL METHACRYLATE | 5.830 | 69 | 138418 | 10.57 | PPBV | | 98 |
| 64) METHYL ISOBUTYL KETONE | 6.573 | 58 | 118189 | 10.81 | PPBV | | 99 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.473 | 75 | 215329 | 10.60 | PPBV | | 99 |
| 66) TOLUENE | 7.699 | 91 | 481462 | 9.94 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.756 | 76 | 230293 | 10.01 | PPBV | | 100 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.162 | 75 | 193502 | 10.62 | PPBV | | 99 |
| 69) 1,1,2-TRICHLOROETHANE | 7.326 | 83 | 141577 | 9.98 | PPBV | | 100 |
| 70) 2-HEXANONE | 8.264 | 58 | 142571 | 9.37 | PPBV | | 100 |
| 71) ETHYL METHACRYLATE | 8.403 | 69 | 215707 | 11.30 | PPBV | | 99 |
| 72) TETRACHLOROETHENE | 9.451 | 164 | 192178 | 9.91 | PPBV | | 99 |
| 73) DIBROMOCHLOROMETHANE | 8.242 | 129 | 300151 | 10.86 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.589 | 107 | 268799 | 10.40 | PPBV | | 98 |
| 75) OCTANE | 9.589 | 43 | 274966 | 9.58 | PPBV | | 99 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.673 | 131 | 206405 | 10.43 | PPBV | | 99 |
| 78) CHLOROBENZENE | 10.663 | 112 | 395813 | 10.08 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.554 | 91 | 636599 | 10.18 | PPBV | | 99 |
| 80) M,P-XYLENE | 11.981 | 91 | 974047 | 20.47 | PPBV | | 96 |
| 81) O-XYLENE | 12.917 | 91 | 490477 | 10.08 | PPBV | | 98 |
| 82) STYRENE | 12.705 | 104 | 379879 | 10.91 | PPBV | | 100 |
| 83) NONANE | 14.033 | 43 | 286207 | 9.53 | PPBV | | 98 |
| 84) BROMOFORM | 11.798 | 173 | 283753 | 11.27 | PPBV | | 100 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.930 | 83 | 367141 | 10.14 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.216 | 75 | 264243 | 9.95 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.435 | 120 | 219163 | 10.63 | PPBV | | 97 |
| 89) BROMOBENZENE | 14.309 | 77 | 337207 | 10.02 | PPBV | | 99 |
| 90) 2-CHLOROTOLUENE | 15.444 | 126 | 179550 | 10.36 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.779 | 120 | 203005 | 10.71 | PPBV | | 99 |
| 92) 4-ETHYLTOLUENE | 16.148 | 105 | 739470 | 10.59 | PPBV | | 99 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.303 | 105 | 609398 | 10.46 | PPBV | | 100 |
| 94) ALPHA-METHYLSTYRENE | 16.502 | 118 | 254071 | 10.37 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.759 | 134 | 152791 | 10.25 | PPBV | | 97 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.769 | 105 | 638069 | 10.25 | PPBV | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61024.D
Acq On : 24 Aug 2022 8:00 pm
Operator : thomash
Sample : cc2709-10
Misc : MS61038,V2w2710,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 20:28:37 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

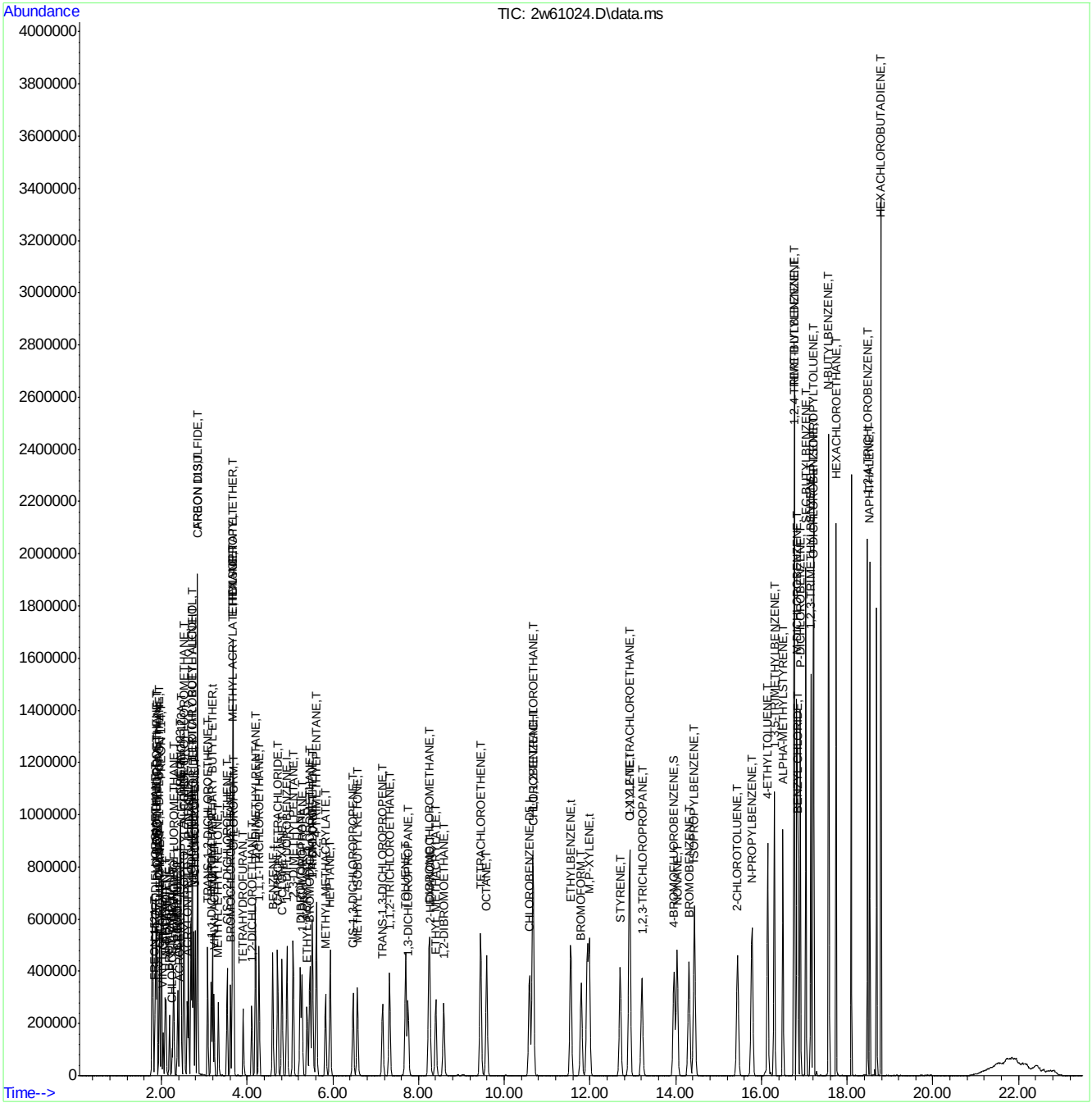
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.849 | 91 | 415388 | 10.77 | PPBV | 100 |
| 98) | M-DICHLOROBENZENE | 16.827 | 146 | 424730 | 10.38 | PPBV | 100 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 427518 | 10.30 | PPBV | 100 |
| 100) | O-DICHLOROBENZENE | 17.203 | 146 | 406692 | 10.09 | PPBV | 99 |
| 101) | SEC-BUTYLBENZENE | 17.039 | 134 | 188292 | 10.16 | PPBV | 99 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 607155 | 10.31 | PPBV | 100 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 205599 | 10.08 | PPBV | 99 |
| 104) | N-BUTYLBENZENE | 17.563 | 134 | 198412 | 10.51 | PPBV | 94 |
| 105) | HEXACHLOROETHANE | 17.743 | 117 | 231531 | 10.01 | PPBV | 99 |
| 106) | HEXACHLOROBUTADIENE | 18.788 | 225 | 295988 | 9.36 | PPBV | 99 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.476 | 180 | 340734 | 10.21 | PPBV | 99 |
| 108) | NAPHTHALENE | 18.528 | 128 | 845303 | 9.91 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61024.D
Acq On : 24 Aug 2022 8:00 pm
Operator : thomash
Sample : cc2709-10
Misc : MS61038,V2w2710,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 20:28:37 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/02/22 15:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61140.D
Acq On : 30 Aug 2022 9:21 am
Operator : williamc
Sample : cc2709-10
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:49:21 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.611 | 128 | 80923 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.929 | 114 | 430053 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 388616 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.961 | 95 | 259371 | 10.02 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.852 | 65 | 65618m | 9.65 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.869 | 67 | 29545 | 9.78 | PPBV | | 97 |
| 5) CHLOROTRIFLUOROETHENE | 1.885 | 116 | 166854 | 9.54 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.907 | 85 | 386540 | 9.60 | PPBV | | 99 |
| 7) PROPYLENE | 1.881 | 41 | 68093 | 8.96 | PPBV | | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.955 | 65 | 306134 | 10.10 | PPBV | | 99 |
| 9) FREON 114 | 2.004 | 85 | 352951 | 9.73 | PPBV | | 98 |
| 10) CHLOROMETHANE | 1.962 | 52 | 38552 | 9.51 | PPBV | | 95 |
| 11) VINYL CHLORIDE | 2.045 | 62 | 148410 | 10.54 | PPBV | | 99 |
| 12) 1,3-BUTADIENE | 2.097 | 54 | 110409 | 10.15 | PPBV | | 99 |
| 13) N-BUTANE | 2.116 | 43 | 171321 | 9.05 | PPBV | | 99 |
| 14) BROMOMETHANE | 2.196 | 94 | 120765 | 9.49 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.261 | 64 | 79269 | 10.52 | PPBV | | 96 |
| 16) DICHLOROFLUOROMETHANE | 2.293 | 67 | 292008 | 9.74 | PPBV | | 100 |
| 17) ACETONITRILE | 2.380 | 41 | 103904 | 9.23 | PPBV | | 98 |
| 18) ACROLEIN | 2.425 | 56 | 62918 | 12.66 | PPBV | | 95 |
| 19) FREON 123 | 2.441 | 83 | 332727 | 9.99 | PPBV | | 98 |
| 20) FREON 123A | 2.457 | 117 | 192996 | 10.02 | PPBV | | 99 |
| 21) TRICHLOROFLUOROMETHANE | 2.524 | 101 | 427996 | 10.22 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.537 | 45 | 310451 | 9.28 | PPBV | | 99 |
| 23) ACETONE | 2.467 | 58 | 95548 | 8.96 | PPBV | | 87 |
| 24) PENTANE | 2.634 | 42 | 183147 | 10.00 | PPBV | | 99 |
| 25) IODOMETHANE | 2.688 | 142 | 394221 | 9.63 | PPBV | | 95 |
| 26) 1,1-DICHLOROETHYLENE | 2.717 | 96 | 165188 | 10.27 | PPBV | | 89 |
| 27) CARBON DISULFIDE | 2.846 | 76 | 499769 | 10.32 | PPBV | | 98 |
| 28) ETHANOL | 2.296 | 45 | 50441 | 7.66 | PPBV | | 99 |
| 29) BROMOETHENE | 2.386 | 106 | 131443 | 10.12 | PPBV | | 99 |
| 30) ACRYLONITRILE | 2.605 | 52 | 135100 | 10.70 | PPBV | | 99 |
| 31) METHYLENE CHLORIDE | 2.753 | 84 | 155160 | 8.69 | PPBV | | 95 |
| 32) 3-CHLOROPROPENE | 2.791 | 76 | 79321 | 9.61 | PPBV | | 89 |
| 33) FREON 113 | 2.846 | 151 | 261079 | 9.63 | PPBV | | 92 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 130302 | 9.73 | PPBV | | 94 |
| 35) TERTIARY BUTYL ALCOHOL | 2.724 | 59 | 420996 | 9.99 | PPBV | | 97 |
| 36) METHYL TERTIARY BUTYL ... | 3.193 | 73 | 310953 | 8.97 | PPBV | | 100 |
| 37) TETRAHYDROFURAN | 3.907 | 72 | 58920 | 10.07 | PPBV | | 99 |
| 38) HEXANE | 3.666 | 57 | 238482 | 10.20 | PPBV | | 96 |
| 39) VINYL ACETATE | 3.232 | 86 | 31270 | 9.49 | PPBV | | 94 |
| 40) 1,1-DICHLOROETHANE | 3.161 | 63 | 247486 | 10.33 | PPBV | | 98 |
| 41) METHYL ETHYL KETONE | 3.331 | 72 | 59332 | 9.96 | PPBV | | 100 |
| 42) CIS-1,2-DICHLOROETHENE | 3.537 | 96 | 137472 | 9.56 | PPBV | | 95 |
| 43) DIISOPROPYL ETHER | 3.669 | 59 | 72132 | 10.53 | PPBV | | 81 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61140.D
Acq On : 30 Aug 2022 9:21 am
Operator : williamc
Sample : cc2709-10
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:49:21 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.676 | 61 | 49167 | 10.26 | PPBV | | 88 |
| 45) METHYL ACRYLATE | 3.663 | 55 | 282506 | 10.27 | PPBV | # | 98 |
| 46) CHLOROFORM | 3.688 | 83 | 278212 | 9.50 | PPBV | | 99 |
| 47) 2,4-DIMETHYLPENTANE | 4.196 | 57 | 275884 | 10.13 | PPBV | | 98 |
| 48) 1,1,1-TRICHLOROETHANE | 4.280 | 97 | 273029 | 9.35 | PPBV | | 97 |
| 49) CARBON TETRACHLORIDE | 4.714 | 117 | 268697 | 9.28 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 4.110 | 62 | 203370 | 10.25 | PPBV | | 98 |
| 51) BENZENE | 4.598 | 78 | 396775 | 9.49 | PPBV | | 99 |
| 53) CYCLOHEXANE | 4.814 | 84 | 173425 | 9.56 | PPBV | | 93 |
| 54) 2,3-DIMETHYLPENTANE | 5.071 | 71 | 86276 | 9.68 | PPBV | | 88 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 185171 | 10.16 | PPBV | | 97 |
| 56) 1,2-DICHLOROPROPANE | 5.280 | 63 | 168821 | 10.28 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.238 | 174 | 168174 | 8.97 | PPBV | | 96 |
| 58) ETHYL ACRYLATE | 5.399 | 55 | 323338 | 10.48 | PPBV | | 99 |
| 59) BROMODICHLOROMETHANE | 5.463 | 83 | 298103 | 9.90 | PPBV | | 98 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.618 | 57 | 730457 | 10.05 | PPBV | | 100 |
| 61) 1,4-DIOXANE | 5.528 | 88 | 78688 | 8.93 | PPBV | | 95 |
| 62) HEPTANE | 5.939 | 43 | 213614 | 9.34 | PPBV | | 96 |
| 63) METHYL METHACRYLATE | 5.827 | 69 | 140186 | 10.00 | PPBV | | 99 |
| 64) METHYL ISOBUTYL KETONE | 6.572 | 58 | 131170 | 11.21 | PPBV | | 93 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.473 | 75 | 208355 | 9.58 | PPBV | | 97 |
| 66) TOLUENE | 7.701 | 91 | 500326 | 9.65 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.756 | 76 | 239395 | 9.72 | PPBV | | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.164 | 75 | 178135 | 9.13 | PPBV | | 98 |
| 69) 1,1,2-TRICHLOROETHANE | 7.325 | 83 | 145910 | 9.61 | PPBV | | 99 |
| 70) 2-HEXANONE | 8.261 | 58 | 150761 | 9.26 | PPBV | | 91 |
| 71) ETHYL METHACRYLATE | 8.402 | 69 | 216391 | 10.59 | PPBV | | 99 |
| 72) TETRACHLOROETHENE | 9.450 | 164 | 189436 | 9.13 | PPBV | | 96 |
| 73) DIBROMOCHLOROMETHANE | 8.244 | 129 | 312074 | 10.55 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.588 | 107 | 276212 | 9.99 | PPBV | | 99 |
| 75) OCTANE | 9.592 | 43 | 290860 | 9.46 | PPBV | | 98 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.675 | 131 | 201158 | 9.56 | PPBV | | 98 |
| 78) CHLOROBENZENE | 10.662 | 112 | 407240 | 9.75 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.547 | 91 | 666399 | 10.01 | PPBV | | 100 |
| 80) M,P-XYLENE | 11.977 | 91 | 1014934m | 20.04 | PPBV | | |
| 81) O-XYLENE | 12.916 | 91 | 516341 | 9.97 | PPBV | | 97 |
| 82) STYRENE | 12.704 | 104 | 390644 | 10.55 | PPBV | | 100 |
| 83) NONANE | 14.035 | 43 | 304743 | 9.54 | PPBV | | 93 |
| 84) BROMOFORM | 11.794 | 173 | 269116 | 10.05 | PPBV | | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.926 | 83 | 381567 | 9.91 | PPBV | | 100 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.212 | 75 | 272820 | 9.65 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.434 | 120 | 236628 | 10.78 | PPBV | | 98 |
| 89) BROMOBENZENE | 14.309 | 77 | 348682 | 9.73 | PPBV | | 97 |
| 90) 2-CHLOROTOLUENE | 15.444 | 126 | 187173 | 10.15 | PPBV | | 100 |
| 91) N-PROPYLBENZENE | 15.778 | 120 | 212256 | 10.53 | PPBV | | 99 |
| 92) 4-ETHYLTOLUENE | 16.148 | 105 | 772013 | 10.39 | PPBV | | 100 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.302 | 105 | 640394 | 10.33 | PPBV | | 100 |
| 94) ALPHA-METHYLSTYRENE | 16.501 | 118 | 253664 | 9.73 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.762 | 134 | 153363 | 9.67 | PPBV | | 87 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.768 | 105 | 678493 | 10.24 | PPBV | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61140.D
Acq On : 30 Aug 2022 9:21 am
Operator : williamc
Sample : cc2709-10
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:49:21 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

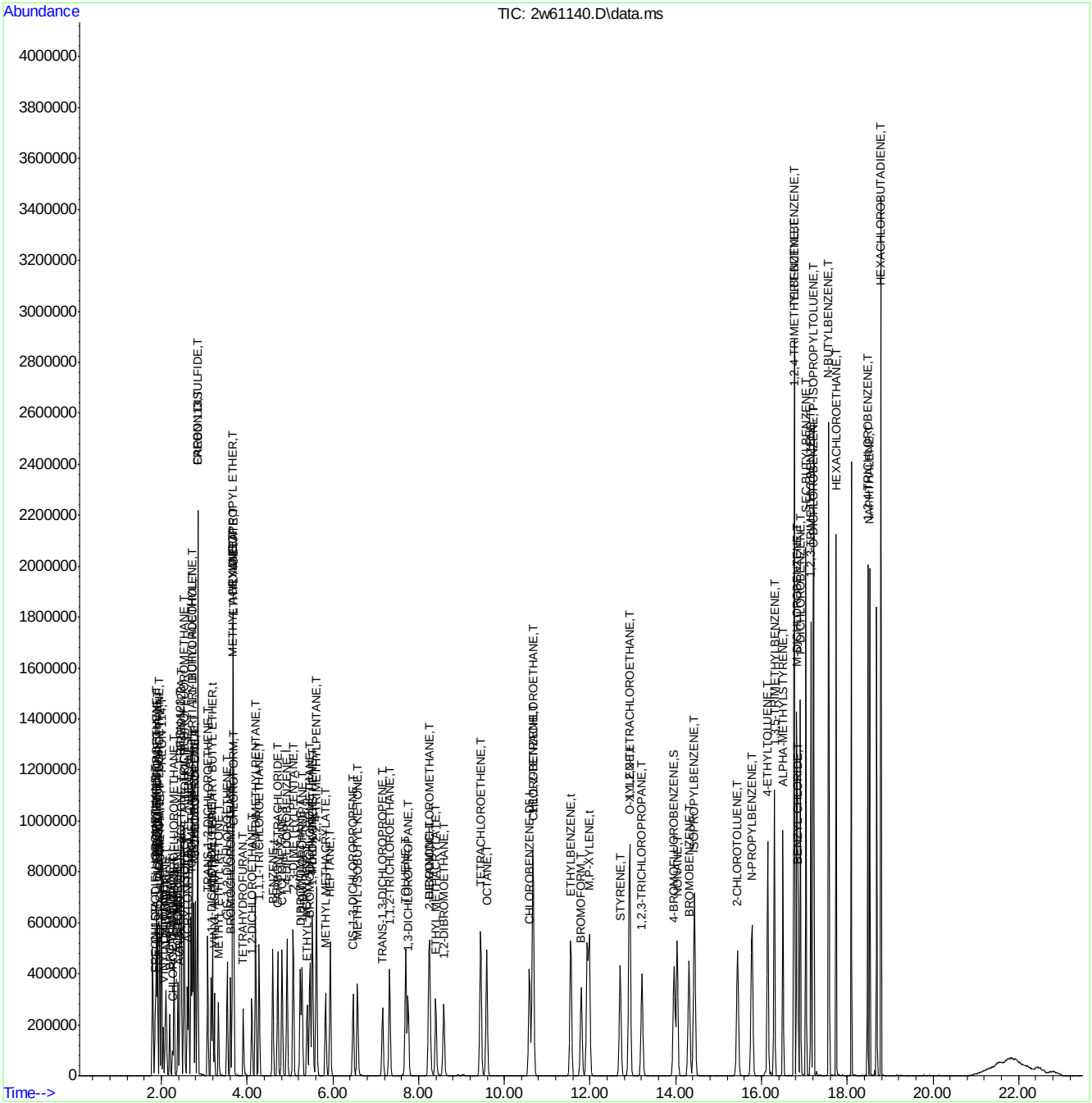
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.852 | 91 | 309969 | 7.56 | PPBV | 99 |
| 98) | M-DICHLOROBENZENE | 16.826 | 146 | 421719 | 9.68 | PPBV | 99 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 424264 | 9.61 | PPBV | 99 |
| 100) | O-DICHLOROBENZENE | 17.206 | 146 | 406606 | 9.48 | PPBV | 99 |
| 101) | SEC-BUTYLBENZENE | 17.042 | 134 | 190211 | 9.65 | PPBV | 91 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 645880 | 10.31 | PPBV | 100 |
| 103) | P-ISOPROPYLTOLUENE | 17.218 | 134 | 206763 | 9.52 | PPBV | 89 |
| 104) | N-BUTYLBENZENE | 17.566 | 134 | 190990 | 9.51 | PPBV | 90 |
| 105) | HEXACHLOROETHANE | 17.742 | 117 | 232989 | 9.47 | PPBV | 98 |
| 106) | HEXACHLOROBUTADIENE | 18.787 | 225 | 283739 | 8.43 | PPBV | 99 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.479 | 180 | 324106 | 9.13 | PPBV | 99 |
| 108) | NAPHTHALENE | 18.527 | 128 | 821274 | 9.05 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61140.D
Acq On : 30 Aug 2022 9:21 am
Operator : williamc
Sample : cc2709-10
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:49:21 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




M2W2709.M Thu Sep 01 10:49:35 2022 GCMS2W Page: 4

# Manual Integration Approval Summary



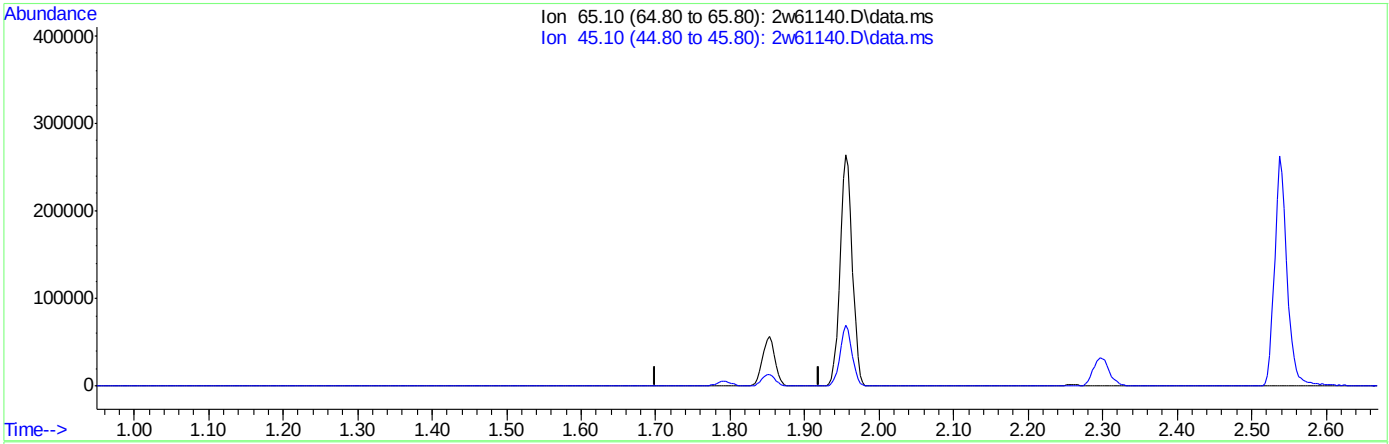
**Sample Number:** V2W2714-CC2709 **Method:** TO-15
**Lab FileID:** 2W61140.D **Analyst approved:** 09/02/22 09:44 William Cruser
**Injection Time:** 08/30/22 09:21 **Supervisor approved:** 09/02/22 15:33 Kanya Veerawat

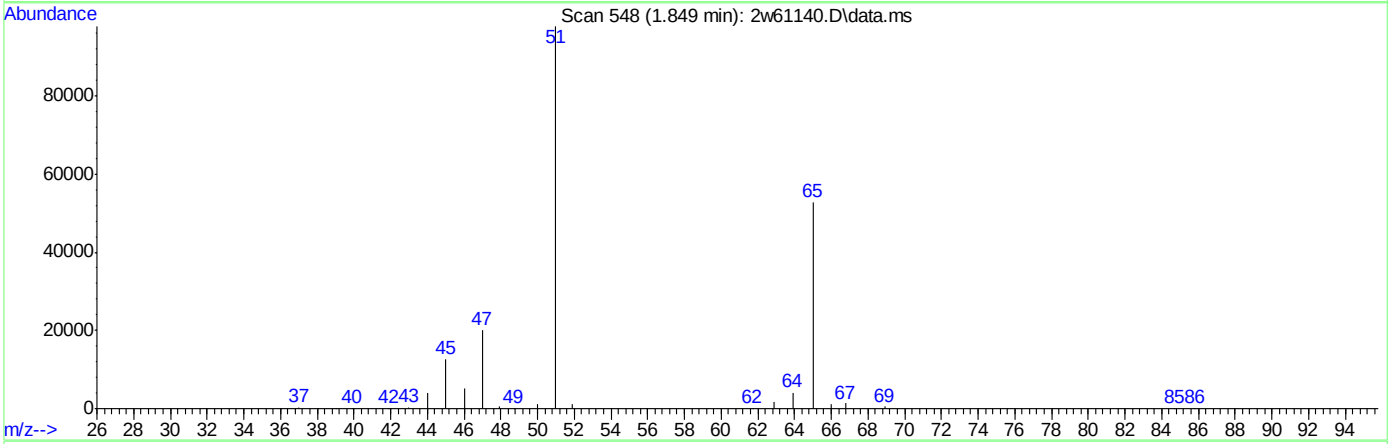
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.85 | Missed peak |
| m,p-Xylene | | | 11.98 | Split peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61140.D
Acq On : 30 Aug 2022 9:21 am
Operator : williamc
Sample : cc2709-10
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 30 10:00:34 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61140.D\data.ms

(3) FREON 152A (T)

1.850min (-1.850) 0.00PPBV

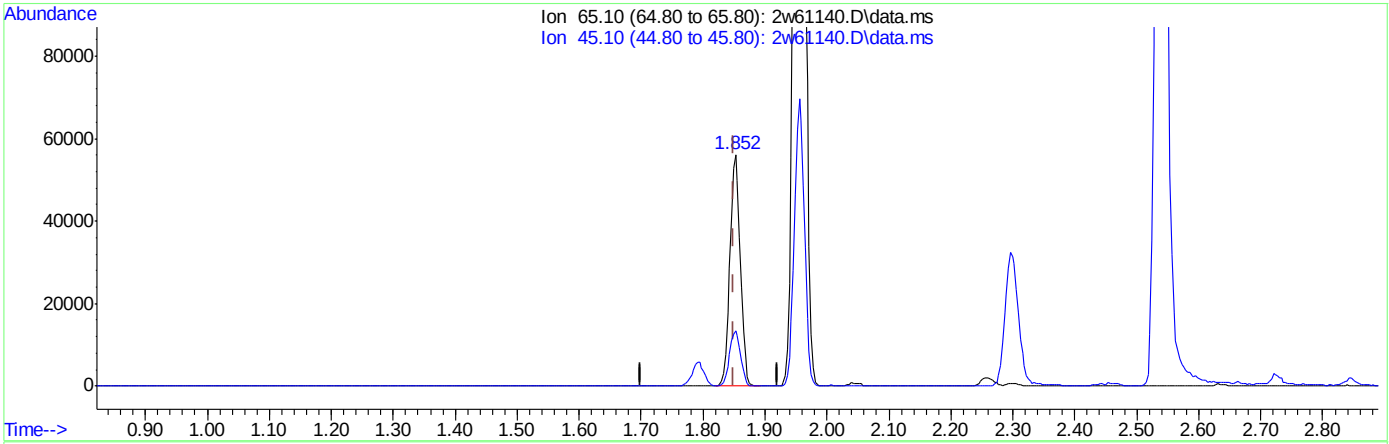
response 0

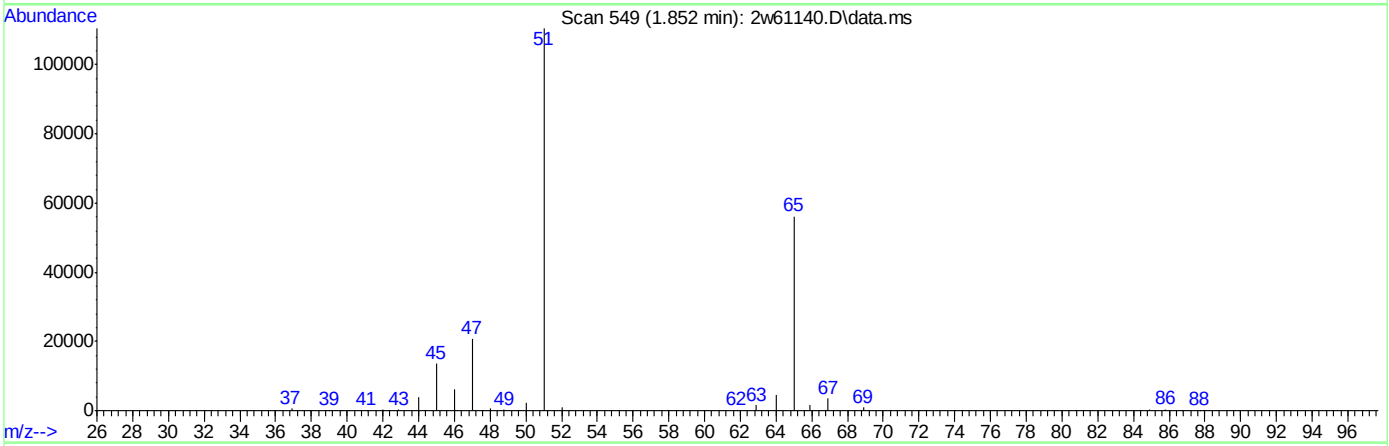
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 0.00 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61140.D
Acq On : 30 Aug 2022 9:21 am
Operator : williamc
Sample : cc2709-10
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 30 10:00:34 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61140.D\data.ms

(3) FREON 152A (T)

1.852min (+0.002) 9.65PPBV m

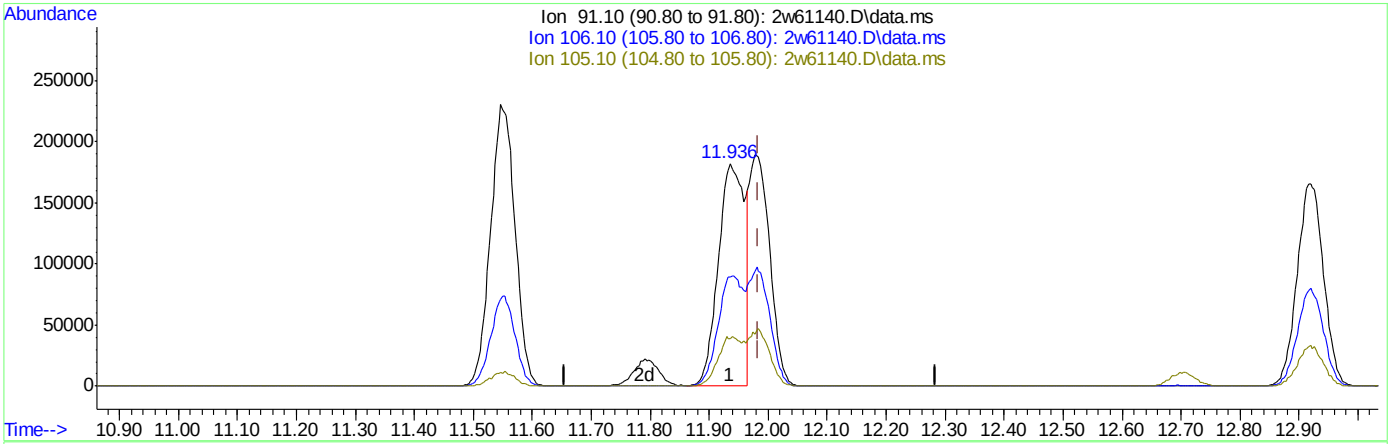
response 65618

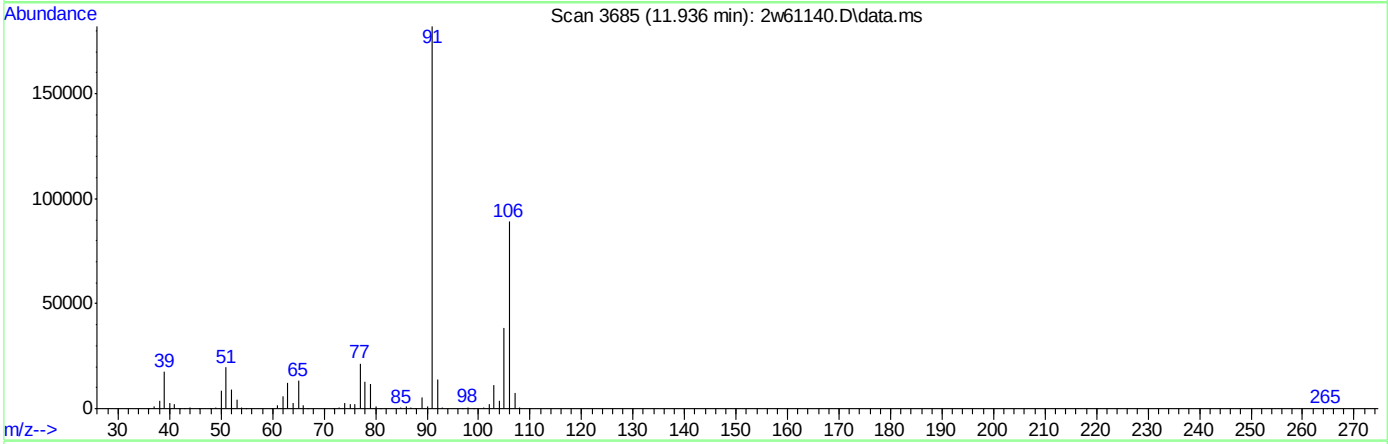
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61140.D
Acq On : 30 Aug 2022 9:21 am
Operator : williamc
Sample : cc2709-10
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 30 10:00:34 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61140.D\data.ms

(80) M,P-XYLENE (t)

11.936min (-0.049) 11.17PPBV

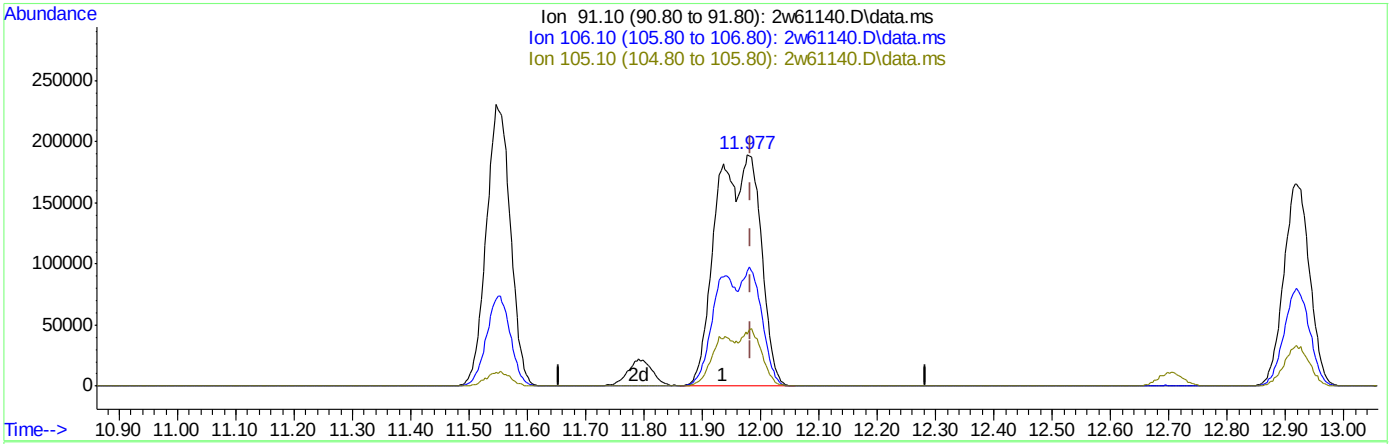
response 565606

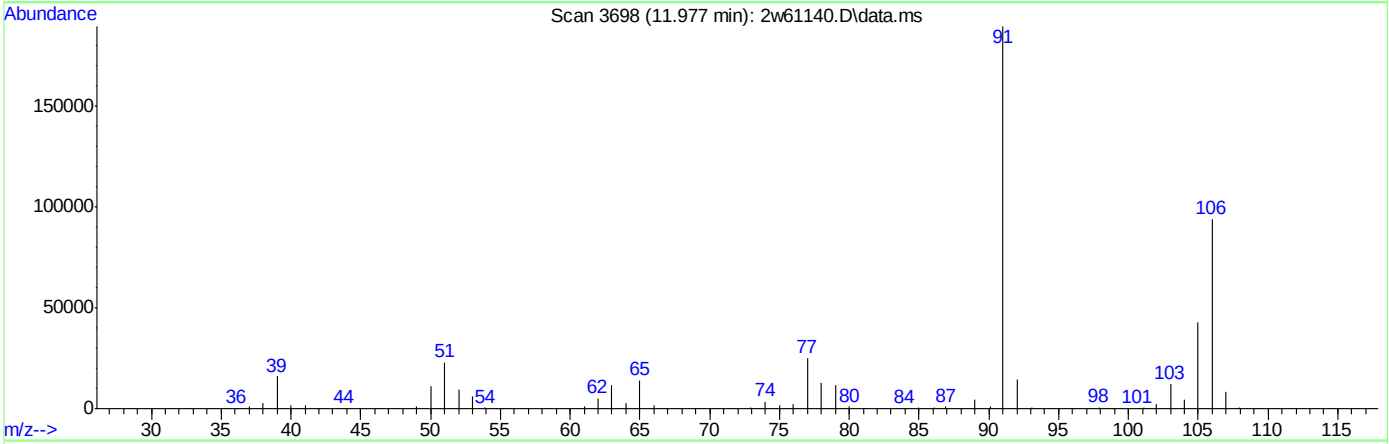
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 23.00 | 45.19# |
| 105.10 | 10.90 | 20.09 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61140.D
Acq On : 30 Aug 2022 9:21 am
Operator : williamc
Sample : cc2709-10
Misc : MS61607,V2w2714,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 30 10:00:34 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61140.D\data.ms

(80) M,P-XYLENE (t)

11.977min (-0.007) 20.04PPBV m

response 1014934

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 23.00 | 25.18 |
| 105.10 | 10.90 | 11.19 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/22 11:12

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61633.D
Acq On : 28 Sep 2022 7:54 am
Operator : thomash
Sample : cc2709-10
Misc : MS62371,V2w2735,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 08:19:59 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.611 | 128 | 70011 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.930 | 114 | 365172 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 317821 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.958 | 95 | 237838 | 11.24 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.849 | 65 | 57366m | 9.75 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.862 | 67 | 25376 | 9.71 | PPBV | | 97 |
| 5) CHLOROTRIFLUOROETHENE | 1.878 | 116 | 130655 | 8.64 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.901 | 85 | 327552 | 9.40 | PPBV | | 99 |
| 7) PROPYLENE | 1.875 | 41 | 53153 | 8.09 | PPBV | | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.952 | 65 | 264251 | 10.08 | PPBV | | 96 |
| 9) FREON 114 | 1.997 | 85 | 307413 | 9.80 | PPBV | | 97 |
| 10) CHLOROMETHANE | 1.959 | 52 | 31063 | 8.86 | PPBV | | 97 |
| 11) VINYL CHLORIDE | 2.039 | 62 | 132298 | 10.86 | PPBV | | 99 |
| 12) 1,3-BUTADIENE | 2.087 | 54 | 87675 | 9.32 | PPBV | | 97 |
| 13) N-BUTANE | 2.110 | 43 | 139142 | 8.49 | PPBV | | 98 |
| 14) BROMOMETHANE | 2.190 | 94 | 106917 | 9.71 | PPBV | | 100 |
| 15) CHLOROETHANE | 2.251 | 64 | 71767 | 11.01 | PPBV | # | 94 |
| 16) DICHLOROFLUOROMETHANE | 2.287 | 67 | 263168 | 10.15 | PPBV | | 98 |
| 17) ACETONITRILE | 2.374 | 41 | 85966 | 8.82 | PPBV | | 99 |
| 18) ACROLEIN | 2.419 | 56 | 61519 | 14.31 | PPBV | | 97 |
| 19) FREON 123 | 2.435 | 83 | 314442 | 10.91 | PPBV | | 94 |
| 20) FREON 123A | 2.454 | 117 | 162532 | 9.75 | PPBV | | 87 |
| 21) TRICHLOROFLUOROMETHANE | 2.518 | 101 | 374187 | 10.32 | PPBV | | 98 |
| 22) ISOPROPYL ALCOHOL | 2.534 | 45 | 263008 | 9.09 | PPBV | | 97 |
| 23) ACETONE | 2.460 | 58 | 76502 | 8.29 | PPBV | | 89 |
| 24) PENTANE | 2.631 | 42 | 159205 | 10.04 | PPBV | | 97 |
| 25) IODOMETHANE | 2.685 | 142 | 367148 | 10.36 | PPBV | | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.714 | 96 | 156267 | 11.23 | PPBV | | 92 |
| 27) CARBON DISULFIDE | 2.843 | 76 | 490516 | 11.71 | PPBV | | 98 |
| 28) ETHANOL | 2.293 | 45 | 42024 | 7.38 | PPBV | | 99 |
| 29) BROMOETHENE | 2.383 | 106 | 111584 | 9.93 | PPBV | | 98 |
| 30) ACRYLONITRILE | 2.602 | 52 | 117639 | 10.77 | PPBV | | 99 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 152685 | 9.89 | PPBV | | 90 |
| 32) 3-CHLOROPROPENE | 2.788 | 76 | 74423 | 10.43 | PPBV | | 92 |
| 33) FREON 113 | 2.843 | 151 | 245138 | 10.46 | PPBV | | 97 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 114936 | 9.92 | PPBV | | 94 |
| 35) TERTIARY BUTYL ALCOHOL | 2.721 | 59 | 342618 | 9.40 | PPBV | # | 89 |
| 36) METHYL TERTIARY BUTYL ... | 3.190 | 73 | 257849 | 8.59 | PPBV | | 99 |
| 37) TETRAHYDROFURAN | 3.901 | 72 | 51785 | 10.23 | PPBV | | 91 |
| 38) HEXANE | 3.663 | 57 | 202883 | 10.03 | PPBV | | 93 |
| 39) VINYL ACETATE | 3.229 | 86 | 28313 | 9.93 | PPBV | | 78 |
| 40) 1,1-DICHLOROETHANE | 3.158 | 63 | 221121 | 10.67 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.329 | 72 | 52868 | 10.25 | PPBV | | 84 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 121632 | 9.78 | PPBV | | 96 |
| 43) DIISOPROPYL ETHER | 3.666 | 59 | 61775 | 10.43 | PPBV | | 66 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61633.D
Acq On : 28 Sep 2022 7:54 am
Operator : thomash
Sample : cc2709-10
Misc : MS62371,V2w2735,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 08:19:59 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.669 | 61 | 44028 | 10.62 | PPBV | | 63 |
| 45) METHYL ACRYLATE | 3.660 | 55 | 239977 | 10.09 | PPBV | # | 98 |
| 46) CHLOROFORM | 3.685 | 83 | 251319 | 9.92 | PPBV | | 97 |
| 47) 2,4-DIMETHYLPENTANE | 4.197 | 57 | 231304 | 9.81 | PPBV | | 98 |
| 48) 1,1,1-TRICHLOROETHANE | 4.277 | 97 | 239193 | 9.47 | PPBV | | 97 |
| 49) CARBON TETRACHLORIDE | 4.711 | 117 | 234676 | 9.37 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 4.110 | 62 | 173891 | 10.13 | PPBV | | 99 |
| 51) BENZENE | 4.595 | 78 | 349120 | 9.65 | PPBV | | 97 |
| 53) CYCLOHEXANE | 4.811 | 84 | 151642 | 9.84 | PPBV | | 100 |
| 54) 2,3-DIMETHYLPENTANE | 5.074 | 71 | 75997 | 10.04 | PPBV | | 98 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 161457 | 10.43 | PPBV | | 96 |
| 56) 1,2-DICHLOROPROPANE | 5.280 | 63 | 146708 | 10.53 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.238 | 174 | 147039 | 9.23 | PPBV | | 97 |
| 58) ETHYL ACRYLATE | 5.396 | 55 | 275983 | 10.54 | PPBV | | 99 |
| 59) BROMODICHLOROMETHANE | 5.460 | 83 | 273193 | 10.69 | PPBV | | 98 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 614082 | 9.95 | PPBV | | 99 |
| 61) 1,4-DIOXANE | 5.525 | 88 | 80297 | 10.74 | PPBV | | 97 |
| 62) HEPTANE | 5.933 | 43 | 166391 | 8.57 | PPBV | | 90 |
| 63) METHYL METHACRYLATE | 5.830 | 69 | 126281 | 10.61 | PPBV | | 92 |
| 64) METHYL ISOBUTYL KETONE | 6.570 | 58 | 116767 | 11.75 | PPBV | | 89 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.473 | 75 | 183516 | 9.94 | PPBV | | 96 |
| 66) TOLUENE | 7.701 | 91 | 426144 | 9.68 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.756 | 76 | 212691 | 10.17 | PPBV | | 99 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.158 | 75 | 156475 | 9.45 | PPBV | | 96 |
| 69) 1,1,2-TRICHLOROETHANE | 7.319 | 83 | 132699 | 10.29 | PPBV | | 96 |
| 70) 2-HEXANONE | 8.264 | 58 | 153636 | 11.05 | PPBV | | 89 |
| 71) ETHYL METHACRYLATE | 8.399 | 69 | 202529 | 11.68 | PPBV | | 95 |
| 72) TETRACHLOROETHENE | 9.444 | 164 | 165889 | 9.41 | PPBV | | 98 |
| 73) DIBROMOCHLOROMETHANE | 8.238 | 129 | 261195 | 10.40 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.586 | 107 | 236256 | 10.06 | PPBV | | 99 |
| 75) OCTANE | 9.592 | 43 | 227219 | 8.71 | PPBV | | 92 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.672 | 131 | 175591 | 10.20 | PPBV | | 97 |
| 78) CHLOROBENZENE | 10.669 | 112 | 345516 | 10.12 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.550 | 91 | 569710 | 10.47 | PPBV | | 99 |
| 80) M,P-XYLENE | 11.981 | 91 | 878675 | 21.22 | PPBV | | 97 |
| 81) O-XYLENE | 12.920 | 91 | 450069 | 10.63 | PPBV | | 94 |
| 82) STYRENE | 12.704 | 104 | 340072 | 11.23 | PPBV | | 99 |
| 83) NONANE | 14.036 | 43 | 243630 | 9.32 | PPBV | | 89 |
| 84) BROMOFORM | 11.798 | 173 | 253850 | 11.59 | PPBV | | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.926 | 83 | 350316 | 11.12 | PPBV | | 97 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.212 | 75 | 243667 | 10.54 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.437 | 120 | 165948 | 9.25 | PPBV | | 96 |
| 89) BROMOBENZENE | 14.306 | 77 | 308801 | 10.54 | PPBV | | 97 |
| 90) 2-CHLOROTOLUENE | 15.441 | 126 | 151223 | 10.03 | PPBV | | 100 |
| 91) N-PROPYLBENZENE | 15.781 | 120 | 171036 | 10.37 | PPBV | | 99 |
| 92) 4-ETHYLTOLUENE | 16.148 | 105 | 652365 | 10.74 | PPBV | | 98 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.302 | 105 | 537050 | 10.59 | PPBV | | 98 |
| 94) ALPHA-METHYLSTYRENE | 16.502 | 118 | 273163 | 12.81 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.759 | 134 | 133329 | 10.28 | PPBV | | 99 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.765 | 105 | 574633 | 10.60 | PPBV | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61633.D
Acq On : 28 Sep 2022 7:54 am
Operator : thomash
Sample : cc2709-10
Misc : MS62371,V2w2735,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 08:19:59 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

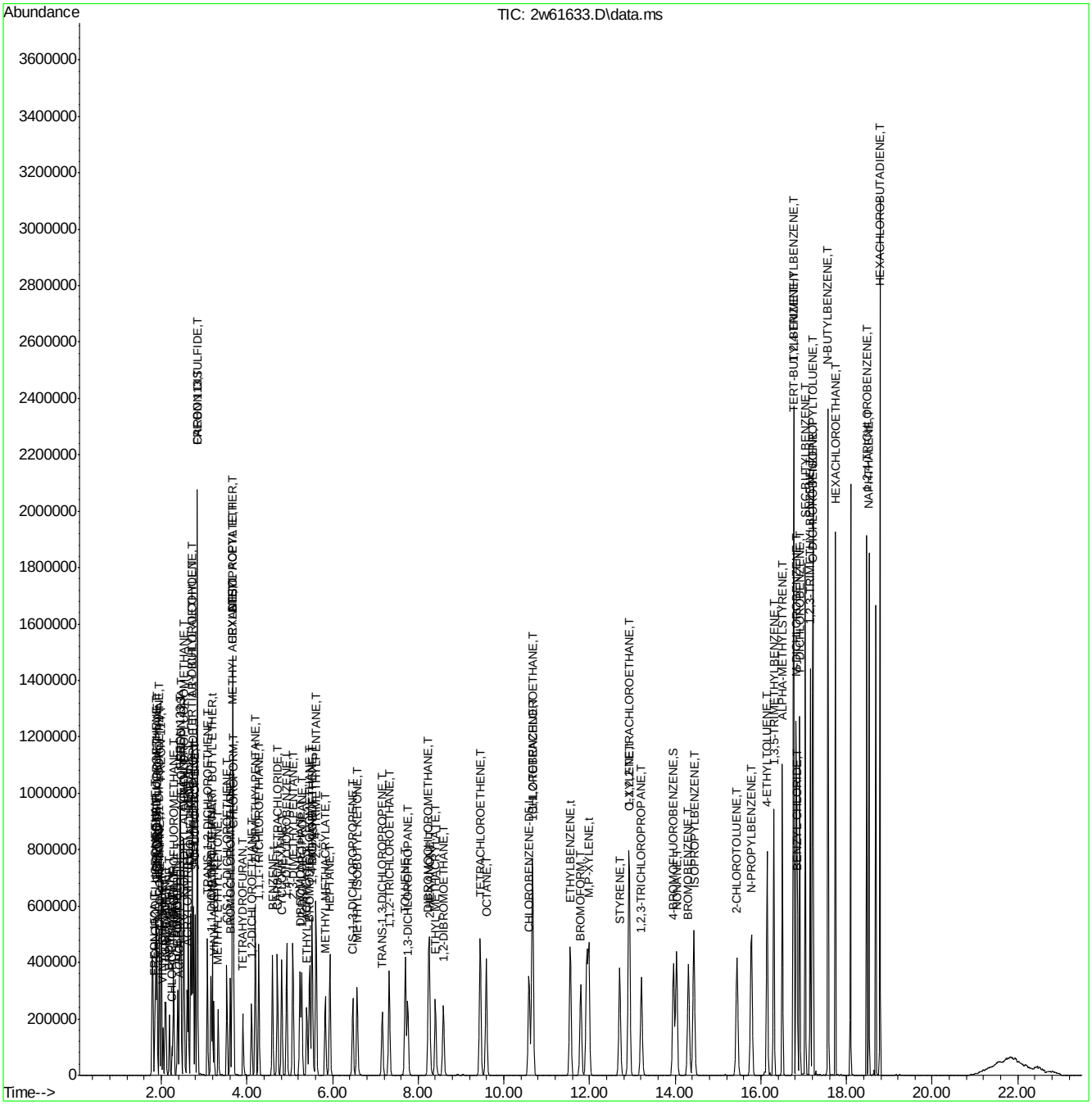
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.852 | 91 | 279302 | 8.32 | PPBV | 98 |
| 98) | M-DICHLOROBENZENE | 16.826 | 146 | 375050 | 10.53 | PPBV | 100 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 381436 | 10.57 | PPBV | 100 |
| 100) | O-DICHLOROBENZENE | 17.203 | 146 | 369989 | 10.55 | PPBV | 100 |
| 101) | SEC-BUTYLBENZENE | 17.039 | 134 | 165644 | 10.28 | PPBV | 94 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 550941 | 10.75 | PPBV | 98 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 183967 | 10.36 | PPBV | 100 |
| 104) | N-BUTYLBENZENE | 17.563 | 134 | 172392 | 10.50 | PPBV | 92 |
| 105) | HEXACHLOROETHANE | 17.743 | 117 | 211625 | 10.52 | PPBV | 98 |
| 106) | HEXACHLOROBUTADIENE | 18.781 | 225 | 284677 | 10.35 | PPBV | 100 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.473 | 180 | 306443 | 10.55 | PPBV | 99 |
| 108) | NAPHTHALENE | 18.521 | 128 | 739784 | 9.97 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61633.D
Acq On : 28 Sep 2022 7:54 am
Operator : thomash
Sample : cc2709-10
Misc : MS62371,V2w2735,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 08:19:59 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



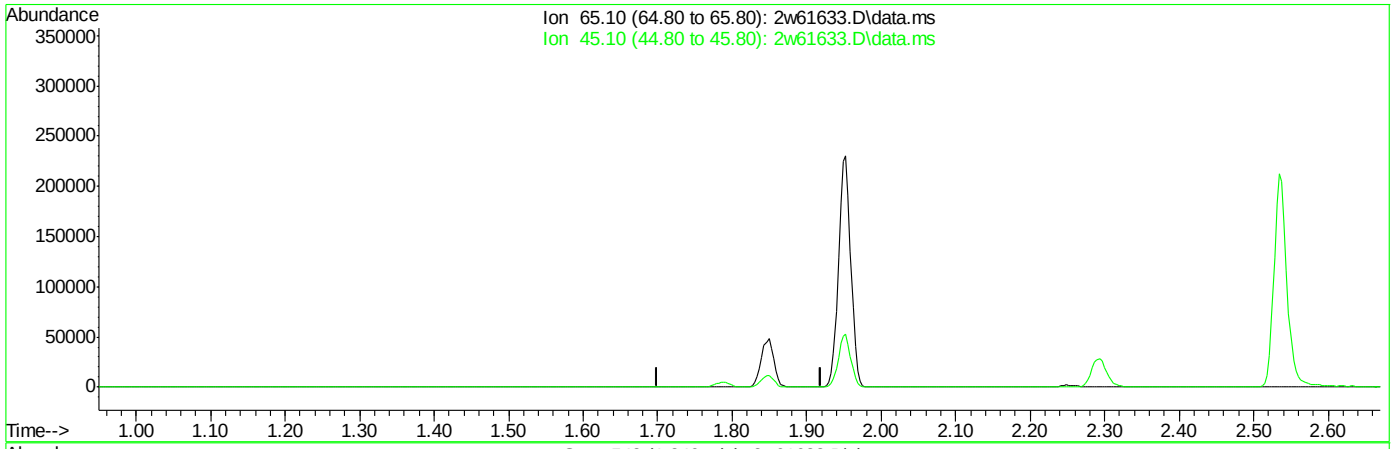
**Sample Number:** V2W2735-CC2709
**Lab FileID:** 2W61633.D
**Injection Time:** 09/28/22 07:54
**Method:** TO-15
**Analyst approved:** 09/29/22 09:19 Thomas Hilbig
**Supervisor approved:** 09/29/22 11:12 Kanya Veerawat

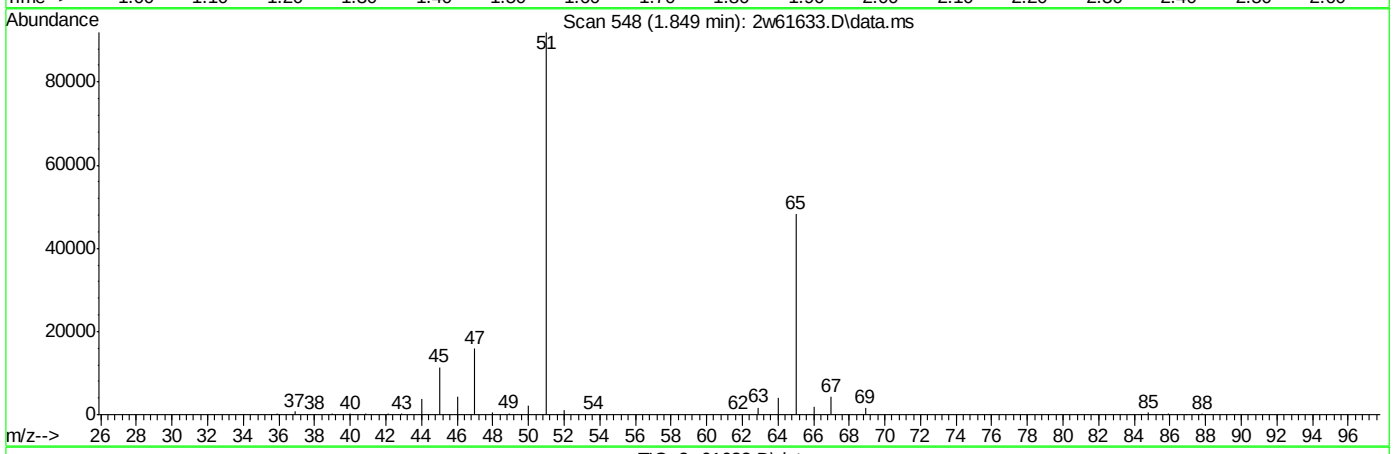
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.85 | Missed peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 2w61633.D
Acq On : 28 Sep 2022 7:54 am
Operator : thomash
Sample : cc2709-10
Misc : MS62371,V2w2735,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 28 08:23:04 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61633.D\data.ms

(3) FREON 152A (T)

1.850min (-1.850) 0.00PPBV

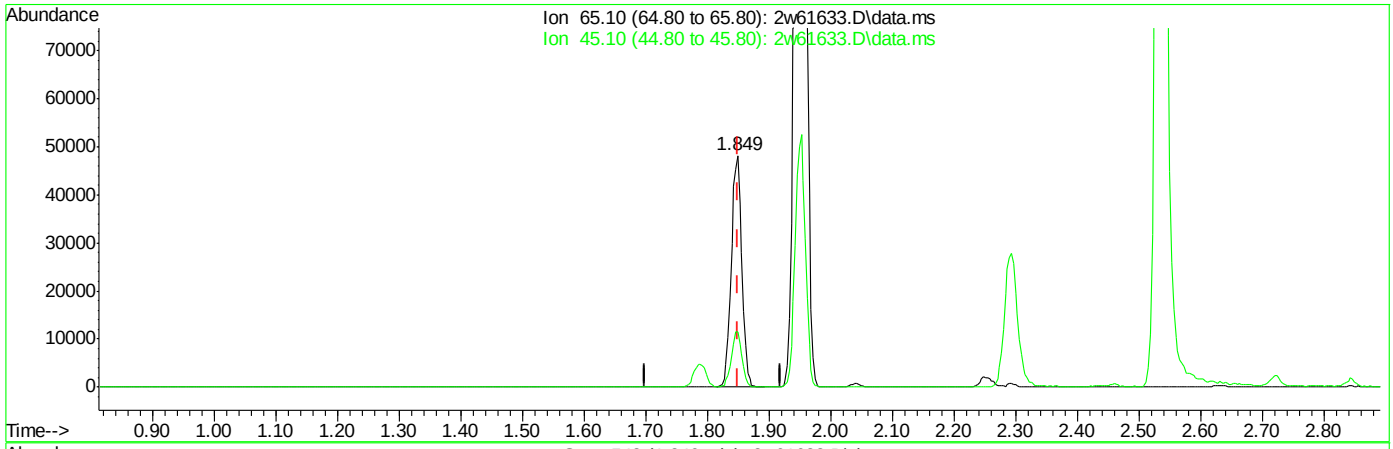
response 0

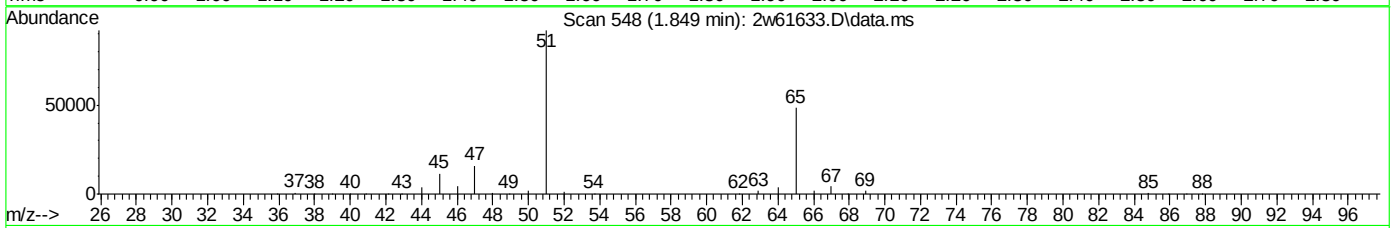
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 0.00 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

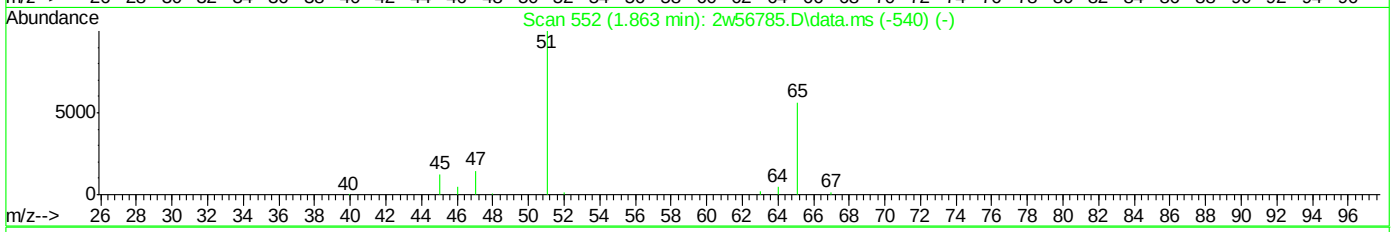
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 2w61633.D
Acq On : 28 Sep 2022 7:54 am
Operator : thomash
Sample : cc2709-10
Misc : MS62371,V2w2735,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 28 08:23:04 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61633.D\data.ms

(3) FREON 152A (T)

1.849min (-0.001) 9.75PPBV m

response 57366

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/03/22 15:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61653.D
Acq On : 29 Sep 2022 7:42 am
Operator : thomash
Sample : cc2709-10
Misc : MS62557,V2w2736,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 08:20:43 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.611 | 128 | 63174 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.926 | 114 | 327482 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 287391 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.961 | 95 | 213203 | 11.14 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.853 | 65 | 56673m | 10.67 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.869 | 67 | 24697 | 10.47 | PPBV | | 96 |
| 5) CHLOROTRIFLUOROETHENE | 1.885 | 116 | 126880 | 9.30 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.907 | 85 | 321359 | 10.22 | PPBV | | 100 |
| 7) PROPYLENE | 1.882 | 41 | 52896 | 8.92 | PPBV | | 98 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.956 | 65 | 255380 | 10.79 | PPBV | | 96 |
| 9) FREON 114 | 2.001 | 85 | 301023 | 10.63 | PPBV | | 95 |
| 10) CHLOROMETHANE | 1.962 | 52 | 30666 | 9.69 | PPBV | | 97 |
| 11) VINYL CHLORIDE | 2.042 | 62 | 130448 | 11.86 | PPBV | | 98 |
| 12) 1,3-BUTADIENE | 2.094 | 54 | 88710 | 10.45 | PPBV | | 96 |
| 13) N-BUTANE | 2.116 | 43 | 135497 | 9.16 | PPBV | | 97 |
| 14) BROMOMETHANE | 2.193 | 94 | 104150 | 10.49 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.258 | 64 | 69772 | 11.86 | PPBV | | 95 |
| 16) DICHLOROFLUOROMETHANE | 2.290 | 67 | 258243 | 11.03 | PPBV | | 99 |
| 17) ACETONITRILE | 2.377 | 41 | 85372 | 9.71 | PPBV | | 99 |
| 18) ACROLEIN | 2.419 | 56 | 61652 | 15.89 | PPBV | | 95 |
| 19) FREON 123 | 2.435 | 83 | 308462 | 11.86 | PPBV | | 94 |
| 20) FREON 123A | 2.454 | 117 | 158418 | 10.53 | PPBV | | 85 |
| 21) TRICHLOROFLUOROMETHANE | 2.518 | 101 | 368290 | 11.26 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.534 | 45 | 259948 | 9.96 | PPBV | | 97 |
| 23) ACETONE | 2.460 | 58 | 76578 | 9.20 | PPBV | | 88 |
| 24) PENTANE | 2.631 | 42 | 156440 | 10.94 | PPBV | | 98 |
| 25) IODOMETHANE | 2.685 | 142 | 354725 | 11.09 | PPBV | | 100 |
| 26) 1,1-DICHLOROETHYLENE | 2.711 | 96 | 152531 | 12.15 | PPBV | | 91 |
| 27) CARBON DISULFIDE | 2.843 | 76 | 480354 | 12.71 | PPBV | | 98 |
| 28) ETHANOL | 2.293 | 45 | 41373 | 8.05 | PPBV | | 100 |
| 29) BROMOETHENE | 2.383 | 106 | 109981 | 10.84 | PPBV | | 99 |
| 30) ACRYLONITRILE | 2.602 | 52 | 116023 | 11.77 | PPBV | | 99 |
| 31) METHYLENE CHLORIDE | 2.747 | 84 | 151179 | 10.85 | PPBV | | 90 |
| 32) 3-CHLOROPROPENE | 2.788 | 76 | 74371 | 11.55 | PPBV | | 89 |
| 33) FREON 113 | 2.843 | 151 | 239666 | 11.33 | PPBV | | 96 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.078 | 96 | 112109 | 10.73 | PPBV | | 93 |
| 35) TERTIARY BUTYL ALCOHOL | 2.721 | 59 | 337457 | 10.26 | PPBV | # | 89 |
| 36) METHYL TERTIARY BUTYL ... | 3.187 | 73 | 246711 | 9.11 | PPBV | | 99 |
| 37) TETRAHYDROFURAN | 3.904 | 72 | 51556 | 11.29 | PPBV | | 89 |
| 38) HEXANE | 3.663 | 57 | 198380 | 10.87 | PPBV | | 93 |
| 39) VINYL ACETATE | 3.229 | 86 | 27102 | 10.53 | PPBV | | 80 |
| 40) 1,1-DICHLOROETHANE | 3.158 | 63 | 214323 | 11.46 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.325 | 72 | 51669 | 11.11 | PPBV | | 82 |
| 42) CIS-1,2-DICHLOROETHENE | 3.531 | 96 | 117534 | 10.47 | PPBV | | 95 |
| 43) DIISOPROPYL ETHER | 3.666 | 59 | 60910 | 11.39 | PPBV | | 63 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61653.D
Acq On : 29 Sep 2022 7:42 am
Operator : thomash
Sample : cc2709-10
Misc : MS62557,V2w2736,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 08:20:43 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.673 | 61 | 42091 | 11.25 | PPBV | | 66 |
| 45) METHYL ACRYLATE | 3.656 | 55 | 233213 | 10.86 | PPBV | # | 98 |
| 46) CHLOROFORM | 3.685 | 83 | 246574 | 10.78 | PPBV | | 96 |
| 47) 2,4-DIMETHYLPENTANE | 4.193 | 57 | 223598 | 10.51 | PPBV | | 99 |
| 48) 1,1,1-TRICHLOROETHANE | 4.277 | 97 | 229396 | 10.06 | PPBV | | 96 |
| 49) CARBON TETRACHLORIDE | 4.711 | 117 | 228228 | 10.10 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 4.107 | 62 | 171525 | 11.08 | PPBV | | 99 |
| 51) BENZENE | 4.595 | 78 | 341117 | 10.45 | PPBV | | 97 |
| 53) CYCLOHEXANE | 4.811 | 84 | 149560 | 10.82 | PPBV | | 100 |
| 54) 2,3-DIMETHYLPENTANE | 5.071 | 71 | 73266 | 10.80 | PPBV | | 98 |
| 55) TRICHLOROETHENE | 5.518 | 95 | 157110 | 11.32 | PPBV | | 96 |
| 56) 1,2-DICHLOROPROPANE | 5.280 | 63 | 145336 | 11.63 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.235 | 174 | 142466 | 9.98 | PPBV | | 96 |
| 58) ETHYL ACRYLATE | 5.396 | 55 | 269395 | 11.47 | PPBV | | 99 |
| 59) BROMODICHLOROMETHANE | 5.460 | 83 | 263812 | 11.51 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 599408 | 10.83 | PPBV | | 100 |
| 61) 1,4-DIOXANE | 5.525 | 88 | 79404 | 11.84 | PPBV | | 97 |
| 62) HEPTANE | 5.936 | 43 | 162915 | 9.35 | PPBV | | 90 |
| 63) METHYL METHACRYLATE | 5.830 | 69 | 121146 | 11.35 | PPBV | | 94 |
| 64) METHYL ISOBUTYL KETONE | 6.573 | 58 | 114525 | 12.85 | PPBV | | 89 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.473 | 75 | 178609 | 10.78 | PPBV | | 96 |
| 66) TOLUENE | 7.698 | 91 | 415170 | 10.52 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.753 | 76 | 206625 | 11.01 | PPBV | | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.161 | 75 | 152121 | 10.24 | PPBV | | 97 |
| 69) 1,1,2-TRICHLOROETHANE | 7.322 | 83 | 126182 | 10.91 | PPBV | | 98 |
| 70) 2-HEXANONE | 8.261 | 58 | 149621 | 11.97 | PPBV | | 88 |
| 71) ETHYL METHACRYLATE | 8.399 | 69 | 195682 | 12.58 | PPBV | | 96 |
| 72) TETRACHLOROETHENE | 9.447 | 164 | 160218 | 10.14 | PPBV | | 99 |
| 73) DIBROMOCHLOROMETHANE | 8.238 | 129 | 253346 | 11.25 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.586 | 107 | 230409 | 10.94 | PPBV | | 99 |
| 75) OCTANE | 9.589 | 43 | 223929 | 9.57 | PPBV | | 93 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.675 | 131 | 170966 | 10.98 | PPBV | | 95 |
| 78) CHLOROBENZENE | 10.663 | 112 | 340028 | 11.01 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.550 | 91 | 552528 | 11.22 | PPBV | | 99 |
| 80) M,P-XYLENE | 11.978 | 91 | 852274 | 22.76 | PPBV | | 98 |
| 81) O-XYLENE | 12.920 | 91 | 438630 | 11.46 | PPBV | | 96 |
| 82) STYRENE | 12.704 | 104 | 331699 | 12.11 | PPBV | | 99 |
| 83) NONANE | 14.032 | 43 | 238762 | 10.10 | PPBV | | 89 |
| 84) BROMOFORM | 11.794 | 173 | 248263 | 12.54 | PPBV | | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.929 | 83 | 345012 | 12.11 | PPBV | | 97 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.209 | 75 | 239642 | 11.47 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.437 | 120 | 160624 | 9.90 | PPBV | | 94 |
| 89) BROMOBENZENE | 14.306 | 77 | 299252 | 11.30 | PPBV | | 98 |
| 90) 2-CHLOROTOLUENE | 15.444 | 126 | 148969 | 10.93 | PPBV | | 100 |
| 91) N-PROPYLBENZENE | 15.778 | 120 | 168753 | 11.32 | PPBV | | 100 |
| 92) 4-ETHYLTOLUENE | 16.148 | 105 | 640820 | 11.66 | PPBV | | 98 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.302 | 105 | 526958 | 11.50 | PPBV | | 99 |
| 94) ALPHA-METHYLSTYRENE | 16.505 | 118 | 268533 | 13.92 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.759 | 134 | 131484 | 11.21 | PPBV | | 99 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.768 | 105 | 573699 | 11.71 | PPBV | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61653.D
Acq On : 29 Sep 2022 7:42 am
Operator : thomash
Sample : cc2709-10
Misc : MS62557,V2w2736,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 08:20:43 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

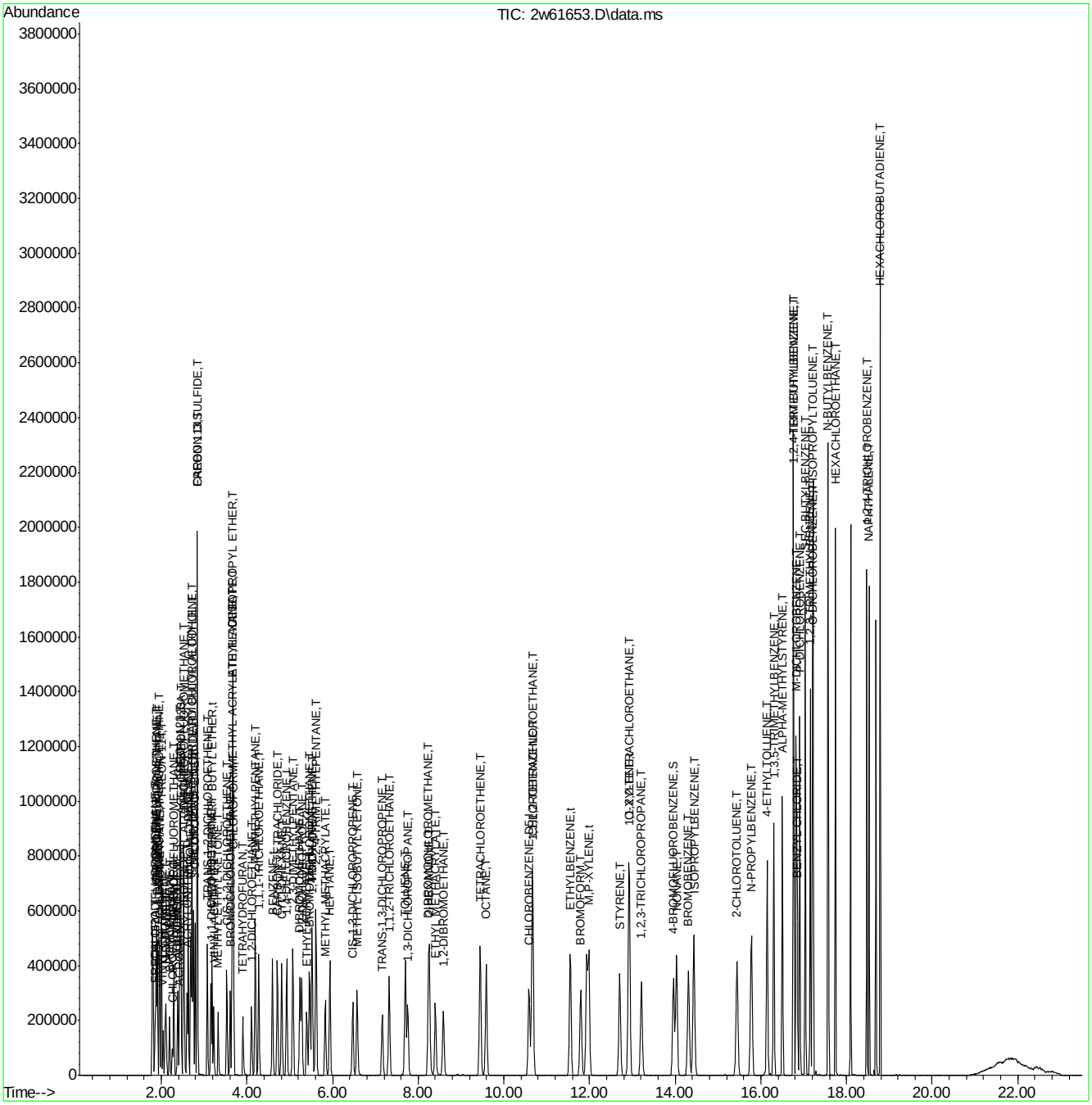
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.852 | 91 | 271723 | 8.96 | PPBV | 97 |
| 98) | M-DICHLOROBENZENE | 16.826 | 146 | 372086 | 11.55 | PPBV | 100 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 374355 | 11.47 | PPBV | 100 |
| 100) | O-DICHLOROBENZENE | 17.203 | 146 | 362502 | 11.43 | PPBV | 99 |
| 101) | SEC-BUTYLBENZENE | 17.039 | 134 | 162146 | 11.12 | PPBV | 93 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 544414 | 11.75 | PPBV | 98 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 181219 | 11.29 | PPBV | 99 |
| 104) | N-BUTYLBENZENE | 17.563 | 134 | 168497 | 11.35 | PPBV | 90 |
| 105) | HEXACHLOROETHANE | 17.743 | 117 | 208991 | 11.49 | PPBV | 98 |
| 106) | HEXACHLOROBUTADIENE | 18.784 | 225 | 280891 | 11.29 | PPBV | 99 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.476 | 180 | 296188 | 11.28 | PPBV | 98 |
| 108) | NAPHTHALENE | 18.524 | 128 | 728975 | 10.87 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61653.D
Acq On : 29 Sep 2022 7:42 am
Operator : thomash
Sample : cc2709-10
Misc : MS62557,V2w2736,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 08:20:43 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



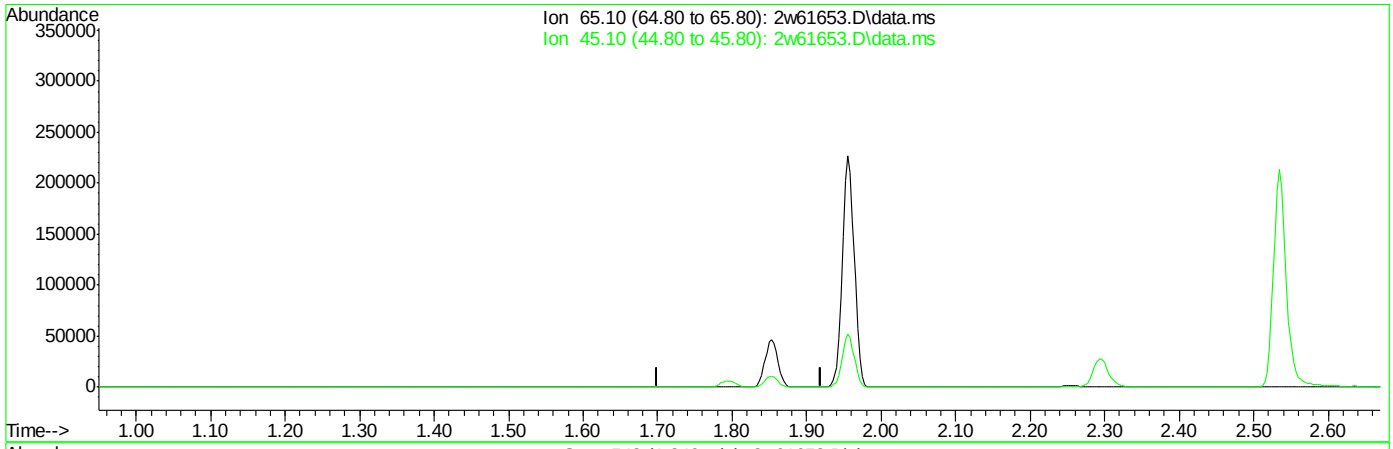
| | | | |
|---|---|---|---|
| **Sample Number:** | V2W2736-CC2709 | **Method:** | TO-15 |
| **Lab FileID:** | 2W61653.D | **Analyst approved:** | 09/30/22 15:26 Thomas Hilbig |
| **Injection Time:** | 09/29/22 07:42 | **Supervisor approved:** | 10/03/22 15:22 Kanya Veerawat |

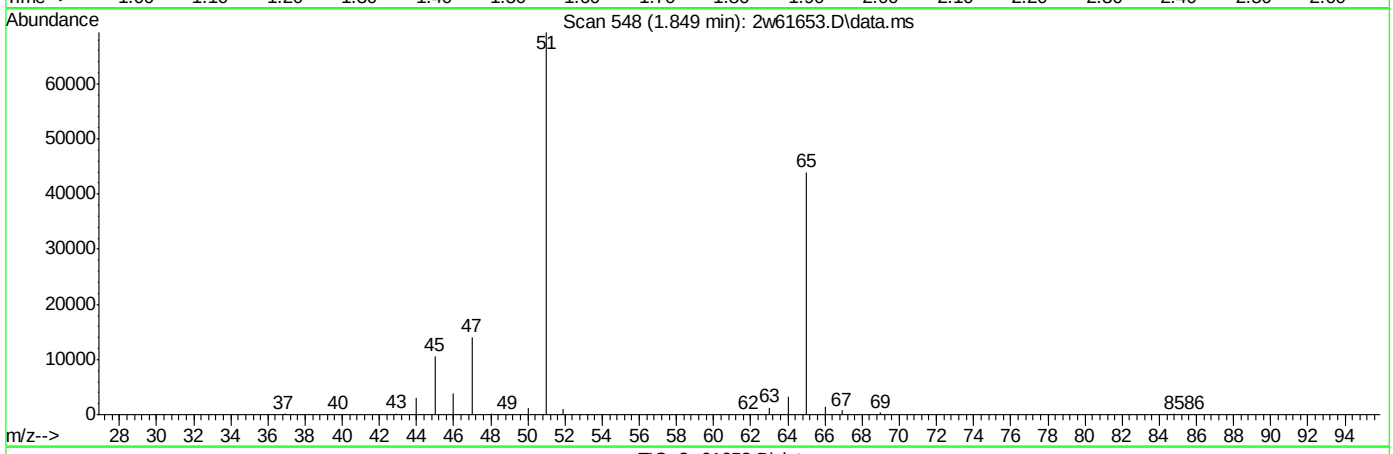
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.85 | Missed peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 2w61653.D
Acq On : 29 Sep 2022 7:42 am
Operator : thomash
Sample : cc2709-10
Misc : MS62557,V2w2736,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 08:17:28 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61653.D\data.ms

(3) FREON 152A (T)

1.850min (-1.850) 0.00PPBV

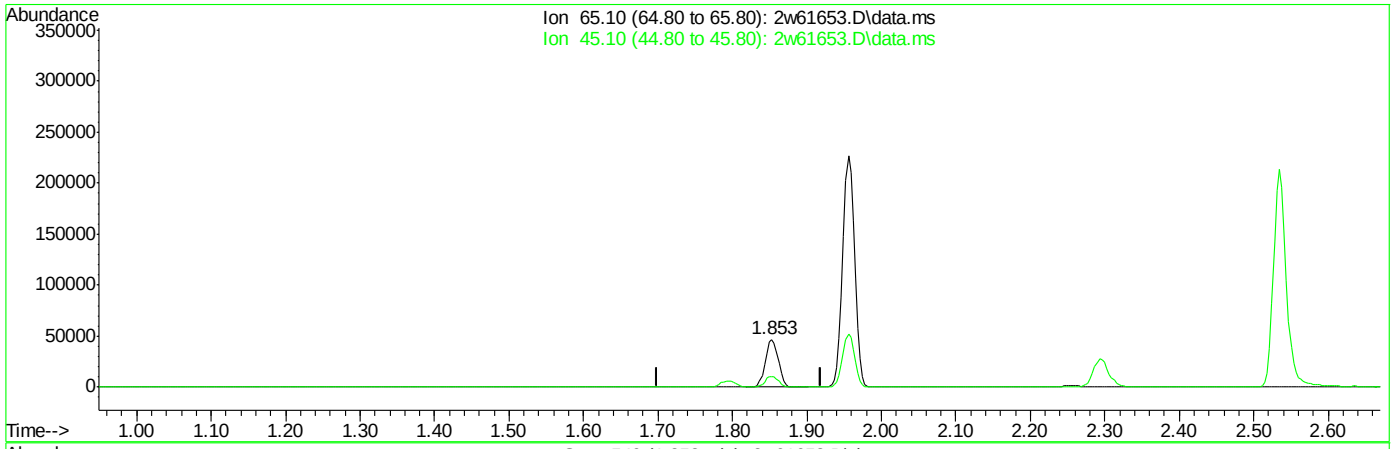
response 0

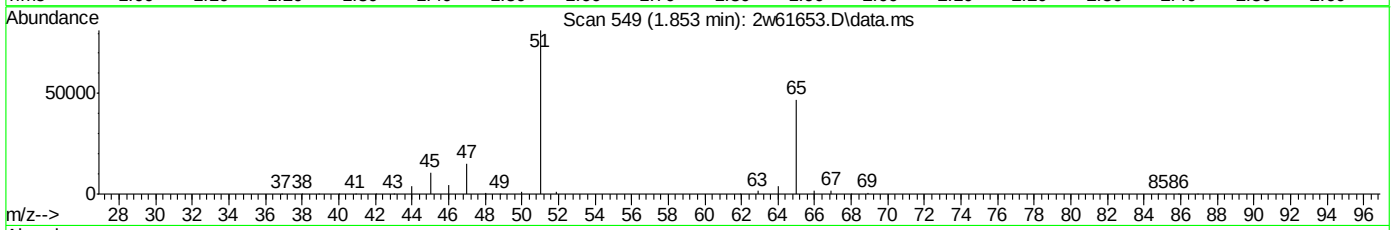
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 0.00 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

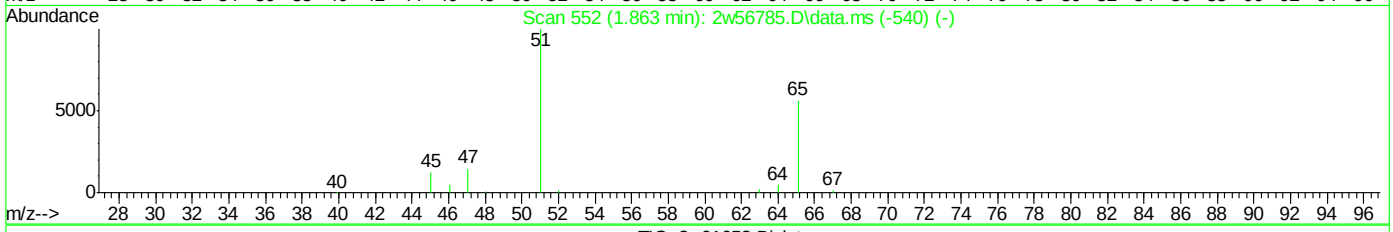
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 2w61653.D
Acq On : 29 Sep 2022 7:42 am
Operator : thomash
Sample : cc2709-10
Misc : MS62557,V2w2736,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 08:17:28 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61653.D\data.ms

(3) FREON 152A (T)

1.853min (+0.003) 10.67PPBV m

response 56673

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/03/22 20:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61685.D
Acq On : 30 Sep 2022 7:35 am
Operator : thomash
Sample : cc2709-10
Misc : MS62556,V2w2737,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:16:41 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.611 | 128 | 73003 | 10.00 | PPBV | | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.933 | 114 | 381947 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 328783 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 13.962 | 95 | 245506 | 11.22 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.856 | 65 | 61153m | 9.96 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.872 | 67 | 26680 | 9.79 | PPBV | | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.885 | 116 | 138018 | 8.75 | PPBV | # | 1 |
| 6) DICHLORODIFLUOROMETHANE | 1.907 | 85 | 343861 | 9.47 | PPBV | | 99 |
| 7) PROPYLENE | 1.885 | 41 | 56177 | 8.19 | PPBV | | 99 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.959 | 65 | 279832 | 10.23 | PPBV | | 96 |
| 9) FREON 114 | 2.004 | 85 | 323141 | 9.88 | PPBV | | 97 |
| 10) CHLOROMETHANE | 1.965 | 52 | 33427 | 9.14 | PPBV | | 96 |
| 11) VINYL CHLORIDE | 2.046 | 62 | 139910 | 11.01 | PPBV | | 99 |
| 12) 1,3-BUTADIENE | 2.097 | 54 | 93794 | 9.56 | PPBV | | 96 |
| 13) N-BUTANE | 2.116 | 43 | 147299 | 8.62 | PPBV | | 97 |
| 14) BROMOMETHANE | 2.197 | 94 | 113096 | 9.85 | PPBV | | 99 |
| 15) CHLOROETHANE | 2.261 | 64 | 75490 | 11.11 | PPBV | # | 93 |
| 16) DICHLOROFLUOROMETHANE | 2.293 | 67 | 280298 | 10.36 | PPBV | | 98 |
| 17) ACETONITRILE | 2.380 | 41 | 92896 | 9.14 | PPBV | | 99 |
| 18) ACROLEIN | 2.422 | 56 | 65812 | 14.68 | PPBV | | 97 |
| 19) FREON 123 | 2.438 | 83 | 331074 | 11.02 | PPBV | | 95 |
| 20) FREON 123A | 2.457 | 117 | 169502 | 9.75 | PPBV | | 84 |
| 21) TRICHLOROFLUOROMETHANE | 2.525 | 101 | 396625 | 10.49 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.538 | 45 | 279636 | 9.27 | PPBV | | 99 |
| 23) ACETONE | 2.467 | 58 | 82672 | 8.59 | PPBV | | 87 |
| 24) PENTANE | 2.634 | 42 | 168394 | 10.19 | PPBV | | 98 |
| 25) IODOMETHANE | 2.689 | 142 | 386531 | 10.46 | PPBV | | 99 |
| 26) 1,1-DICHLOROETHYLENE | 2.718 | 96 | 164846 | 11.36 | PPBV | | 90 |
| 27) CARBON DISULFIDE | 2.846 | 76 | 516807 | 11.83 | PPBV | | 98 |
| 28) ETHANOL | 2.296 | 45 | 44125 | 7.43 | PPBV | | 99 |
| 29) BROMOETHENE | 2.386 | 106 | 117499 | 10.02 | PPBV | | 99 |
| 30) ACRYLONITRILE | 2.605 | 52 | 125479 | 11.01 | PPBV | | 97 |
| 31) METHYLENE CHLORIDE | 2.750 | 84 | 162515 | 10.10 | PPBV | | 90 |
| 32) 3-CHLOROPROPENE | 2.792 | 76 | 79198 | 10.64 | PPBV | | 91 |
| 33) FREON 113 | 2.846 | 151 | 257895 | 10.55 | PPBV | | 96 |
| 34) TRANS-1,2-DICHLOROETHENE | 3.081 | 96 | 120885 | 10.01 | PPBV | | 94 |
| 35) TERTIARY BUTYL ALCOHOL | 2.724 | 59 | 368414 | 9.69 | PPBV | # | 89 |
| 36) METHYL TERTIARY BUTYL ... | 3.193 | 73 | 268738 | 8.59 | PPBV | | 99 |
| 37) TETRAHYDROFURAN | 3.907 | 72 | 53233 | 10.09 | PPBV | | 92 |
| 38) HEXANE | 3.666 | 57 | 213415 | 10.12 | PPBV | | 93 |
| 39) VINYL ACETATE | 3.232 | 86 | 29682 | 9.98 | PPBV | | 80 |
| 40) 1,1-DICHLOROETHANE | 3.158 | 63 | 235077 | 10.87 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.332 | 72 | 57186 | 10.64 | PPBV | | 79 |
| 42) CIS-1,2-DICHLOROETHENE | 3.534 | 96 | 125463 | 9.68 | PPBV | | 94 |
| 43) DIISOPROPYL ETHER | 3.669 | 59 | 65141 | 10.54 | PPBV | | 68 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61685.D
Acq On : 30 Sep 2022 7:35 am
Operator : thomash
Sample : cc2709-10
Misc : MS62556,V2w2737,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:16:41 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) ETHYL ACETATE | 3.676 | 61 | 46614 | 10.78 | PPBV | | 63 |
| 45) METHYL ACRYLATE | 3.663 | 55 | 251724 | 10.15 | PPBV | # | 98 |
| 46) CHLOROFORM | 3.689 | 83 | 267989 | 10.14 | PPBV | | 96 |
| 47) 2,4-DIMETHYLPENTANE | 4.197 | 57 | 242584 | 9.87 | PPBV | | 98 |
| 48) 1,1,1-TRICHLOROETHANE | 4.280 | 97 | 248451 | 9.43 | PPBV | | 96 |
| 49) CARBON TETRACHLORIDE | 4.714 | 117 | 246680 | 9.45 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 4.113 | 62 | 186001 | 10.39 | PPBV | | 99 |
| 51) BENZENE | 4.602 | 78 | 366099 | 9.71 | PPBV | | 97 |
| 53) CYCLOHEXANE | 4.814 | 84 | 161677 | 10.03 | PPBV | | 98 |
| 54) 2,3-DIMETHYLPENTANE | 5.078 | 71 | 78322 | 9.89 | PPBV | | 95 |
| 55) TRICHLOROETHENE | 5.521 | 95 | 169475 | 10.47 | PPBV | | 96 |
| 56) 1,2-DICHLOROPROPANE | 5.283 | 63 | 157514 | 10.80 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.242 | 174 | 154197 | 9.26 | PPBV | | 96 |
| 58) ETHYL ACRYLATE | 5.396 | 55 | 286756 | 10.47 | PPBV | | 99 |
| 59) BROMODICHLOROMETHANE | 5.463 | 83 | 281373 | 10.53 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.615 | 57 | 648394 | 10.05 | PPBV | | 99 |
| 61) 1,4-DIOXANE | 5.528 | 88 | 85385 | 10.91 | PPBV | | 97 |
| 62) HEPTANE | 5.936 | 43 | 174765 | 8.60 | PPBV | | 89 |
| 63) METHYL METHACRYLATE | 5.830 | 69 | 129743 | 10.42 | PPBV | | 94 |
| 64) METHYL ISOBUTYL KETONE | 6.573 | 58 | 123050 | 11.84 | PPBV | | 88 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.473 | 75 | 191884 | 9.93 | PPBV | | 96 |
| 66) TOLUENE | 7.701 | 91 | 443364 | 9.63 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.756 | 76 | 222598 | 10.17 | PPBV | | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.161 | 75 | 163327 | 9.43 | PPBV | | 97 |
| 69) 1,1,2-TRICHLOROETHANE | 7.322 | 83 | 137447 | 10.19 | PPBV | | 98 |
| 70) 2-HEXANONE | 8.264 | 58 | 159105 | 10.94 | PPBV | | 89 |
| 71) ETHYL METHACRYLATE | 8.402 | 69 | 209507 | 11.55 | PPBV | | 95 |
| 72) TETRACHLOROETHENE | 9.444 | 164 | 172070 | 9.33 | PPBV | | 99 |
| 73) DIBROMOCHLOROMETHANE | 8.245 | 129 | 273395 | 10.41 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.586 | 107 | 246038 | 10.02 | PPBV | | 100 |
| 75) OCTANE | 9.592 | 43 | 241478 | 8.85 | PPBV | | 93 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.679 | 131 | 185184 | 10.40 | PPBV | | 97 |
| 78) CHLOROBENZENE | 10.666 | 112 | 362188 | 10.25 | PPBV | | 99 |
| 79) ETHYLBENZENE | 11.550 | 91 | 591461 | 10.50 | PPBV | | 98 |
| 80) M,P-XYLENE | 11.978 | 91 | 918224 | 21.43 | PPBV | | 97 |
| 81) O-XYLENE | 12.920 | 91 | 472832 | 10.80 | PPBV | | 97 |
| 82) STYRENE | 12.704 | 104 | 352299 | 11.24 | PPBV | | 99 |
| 83) NONANE | 14.029 | 43 | 260131 | 9.62 | PPBV | | 89 |
| 84) BROMOFORM | 11.794 | 173 | 260547 | 11.50 | PPBV | | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.926 | 83 | 368534 | 11.31 | PPBV | | 97 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.212 | 75 | 259994 | 10.88 | PPBV | # | 100 |
| 88) ISOPROPYLBENZENE | 14.434 | 120 | 175381 | 9.45 | PPBV | | 96 |
| 89) BROMOBENZENE | 14.309 | 77 | 325416 | 10.74 | PPBV | | 96 |
| 90) 2-CHLOROTOLUENE | 15.447 | 126 | 161694 | 10.37 | PPBV | | 98 |
| 91) N-PROPYLBENZENE | 15.778 | 120 | 179544 | 10.52 | PPBV | | 100 |
| 92) 4-ETHYLTOLUENE | 16.148 | 105 | 687345 | 10.94 | PPBV | | 98 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.302 | 105 | 569541 | 10.86 | PPBV | | 98 |
| 94) ALPHA-METHYLSTYRENE | 16.502 | 118 | 290333 | 13.16 | PPBV | | 99 |
| 95) TERT-BUTYLBENZENE | 16.759 | 134 | 143293 | 10.68 | PPBV | | 99 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.769 | 105 | 616823 | 11.00 | PPBV | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61685.D
Acq On : 30 Sep 2022 7:35 am
Operator : thomash
Sample : cc2709-10
Misc : MS62556,V2w2737,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:16:41 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

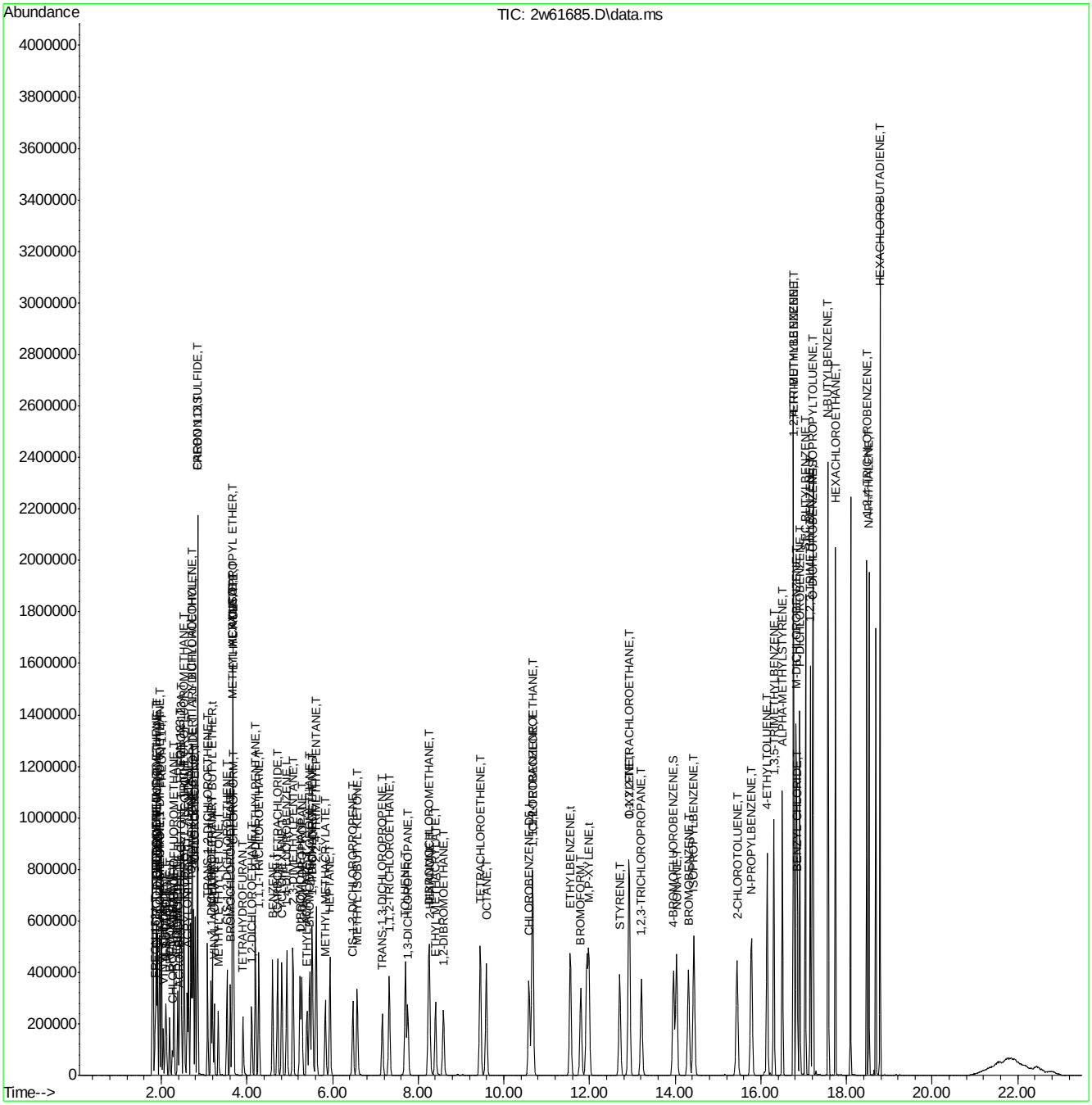
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 97) | BENZYL CHLORIDE | 16.852 | 91 | 297542 | 8.57 | PPBV | 97 |
| 98) | M-DICHLOROBENZENE | 16.830 | 146 | 404832 | 10.99 | PPBV | 100 |
| 99) | P-DICHLOROBENZENE | 16.910 | 146 | 406755 | 10.89 | PPBV | 100 |
| 100) | O-DICHLOROBENZENE | 17.203 | 146 | 389763 | 10.74 | PPBV | 99 |
| 101) | SEC-BUTYLBENZENE | 17.042 | 134 | 176831 | 10.60 | PPBV | 94 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.151 | 105 | 587412 | 11.08 | PPBV | 98 |
| 103) | P-ISOPROPYLTOLUENE | 17.219 | 134 | 196472 | 10.70 | PPBV | 99 |
| 104) | N-BUTYLBENZENE | 17.563 | 134 | 181426 | 10.68 | PPBV | 93 |
| 105) | HEXACHLOROETHANE | 17.743 | 117 | 224891 | 10.81 | PPBV | 98 |
| 106) | HEXACHLOROBUTADIENE | 18.781 | 225 | 300027 | 10.54 | PPBV | 99 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.473 | 180 | 320725 | 10.68 | PPBV | 98 |
| 108) | NAPHTHALENE | 18.521 | 128 | 779916 | 10.16 | PPBV | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61685.D
Acq On : 30 Sep 2022 7:35 am
Operator : thomash
Sample : cc2709-10
Misc : MS62556,V2w2737,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 15:16:41 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



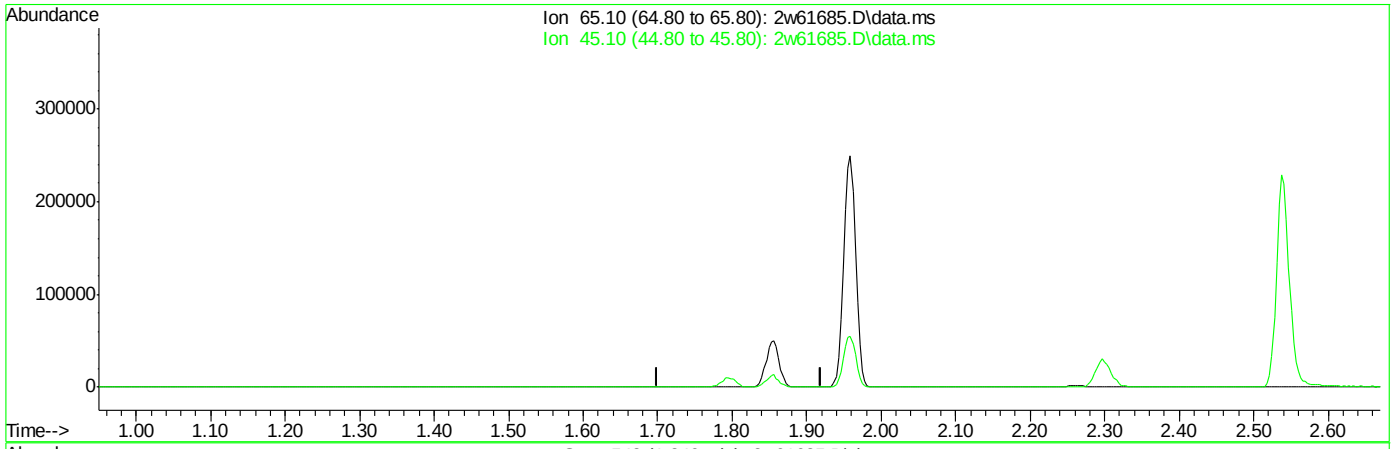
**Sample Number:** V2W2737-CC2709 **Method:** TO-15
**Lab FileID:** 2W61685.D **Analyst approved:** 09/30/22 15:26 Thomas Hilbig
**Injection Time:** 09/30/22 07:35 **Supervisor approved:** 10/03/22 20:38 Kanya Veerawat

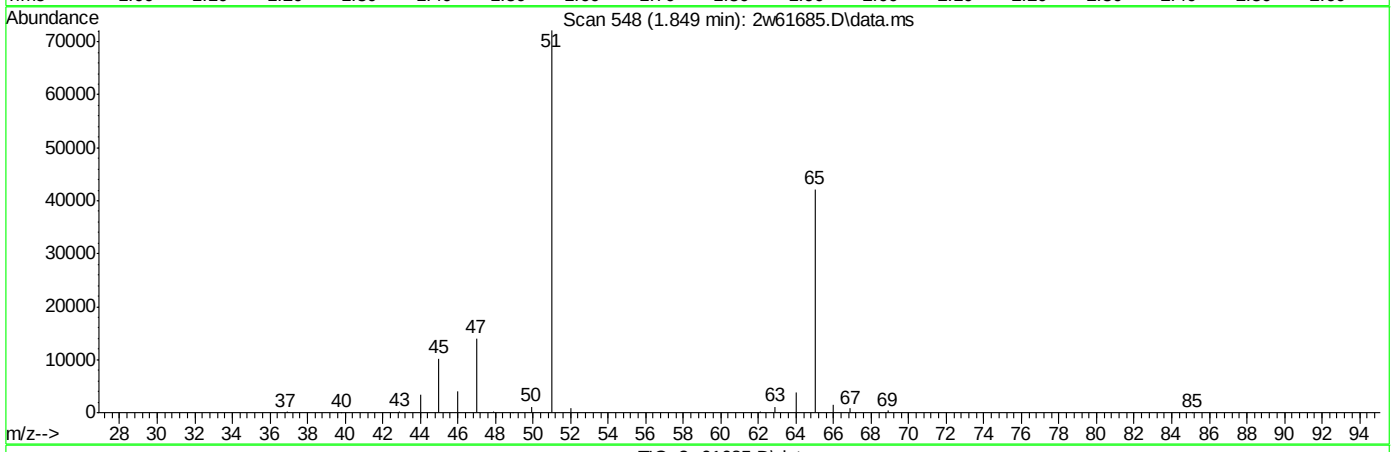
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.86 | Missed peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 2w61685.D
Acq On : 30 Sep 2022 7:35 am
Operator : thomash
Sample : cc2709-10
Misc : MS62556,V2w2737,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 08:25:02 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61685.D\data.ms

(3) FREON 152A (T)

1.850min (-1.850) 0.00PPBV

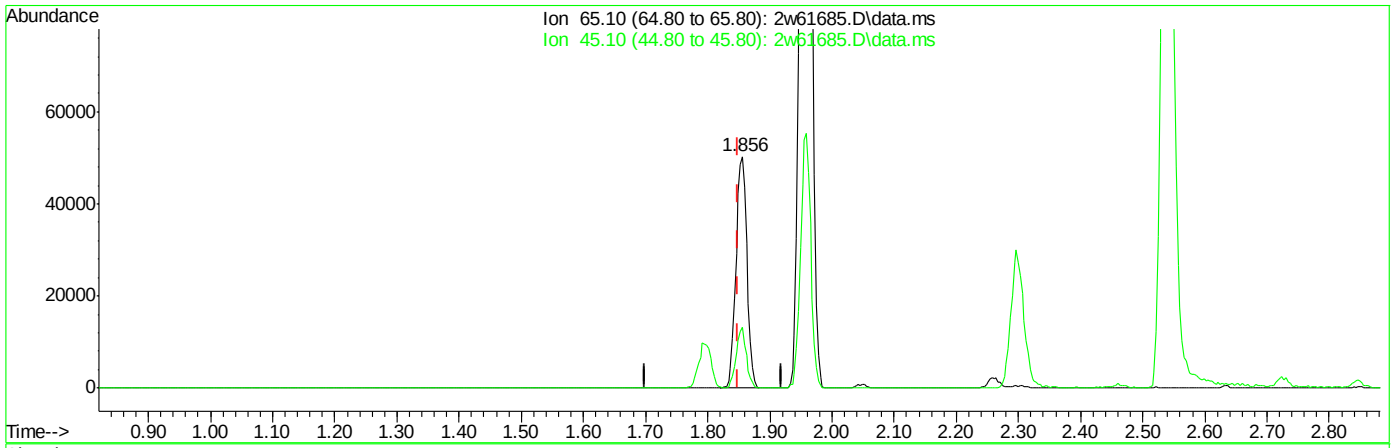
response 0

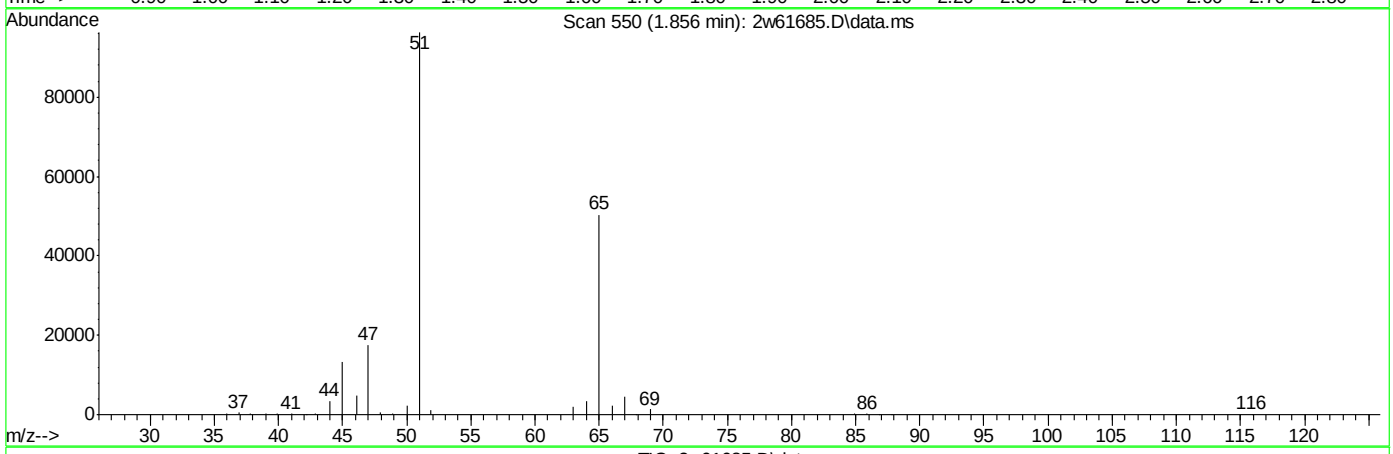
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 0.00 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 2w61685.D
Acq On : 30 Sep 2022 7:35 am
Operator : thomash
Sample : cc2709-10
Misc : MS62556,V2w2737,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 08:25:02 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration




TIC: 2w61685.D\data.ms

(3) FREON 152A (T)

1.856min (+0.006) 9.96PPBV m

response 61153

| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/21/22 11:19

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26004.D
Acq On : 15 Sep 2022 11:32 am
Operator : thomash
Sample : ic1105-0.2
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:25:42 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 42838 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.730 | 114 | 239814 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 156932 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.019 | 95 | 110632 | 9.99 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 3) FREON 152A | 1.692 | 65 | 602 | 0.16 | PPBV | # 53 |
| 4) CHLORODIFLUOROMETHANE | 1.705 | 67 | 282m | 0.16 | PPBV | |
| 5) CHLOROTRIFLUOROETHENE | 1.718 | 116 | 1269 | 0.15 | PPBV | # 42 |
| 6) DICHLORODIFLUOROMETHANE | 1.730 | 85 | 4124 | 0.20 | PPBV | # 88 |
| 7) PROPYLENE | 1.714 | 41 | 917 | 0.16 | PPBV | # 83 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 3397 | 0.16 | PPBV | # 37 |
| 9) FREON 114 | 1.798 | 85 | 3732 | 0.17 | PPBV | 89 |
| 10) CHLOROMETHANE | 1.772 | 52 | 540 | 0.21 | PPBV | 98 |
| 11) VINYL CHLORIDE | 1.827 | 62 | 1503 | 0.16 | PPBV | # 90 |
| 12) 1,3-BUTADIENE | 1.865 | 54 | 1581 | 0.23 | PPBV | # 68 |
| 13) N-BUTANE | 1.878 | 43 | 2584 | 0.17 | PPBV | # 65 |
| 14) BROMOMETHANE | 1.933 | 94 | 1276 | 0.17 | PPBV | # 90 |
| 15) CHLOROETHANE | 1.978 | 64 | 855 | 0.17 | PPBV | # 43 |
| 16) DICHLOROFLUOROMETHANE | 2.001 | 67 | 3184 | 0.16 | PPBV | # 90 |
| 17) ACETONITRILE | 2.068 | 41 | 1632 | 0.18 | PPBV | # 55 |
| 18) ACROLEIN | 2.103 | 56 | 797 | 0.26 | PPBV | 91 |
| 19) FREON 123 | 2.116 | 83 | 3232 | 0.17 | PPBV | 99 |
| 20) FREON 123A | 2.132 | 117 | 1910 | 0.18 | PPBV | 91 |
| 21) TRICHLOROFLUOROMETHANE | 2.193 | 101 | 3471 | 0.16 | PPBV | # 95 |
| 22) ISOPROPYL ALCOHOL | 2.213 | 45 | 3639 | 0.18 | PPBV | # 90 |
| 23) ACETONE | 2.145 | 58 | 862 | 0.16 | PPBV | # 9 |
| 24) PENTANE | 2.300 | 42 | 1769 | 0.17 | PPBV | # 77 |
| 25) IODOMETHANE | 2.357 | 142 | 3080 | 0.16 | PPBV | # 85 |
| 26) 1,1-DICHLOROETHYLENE | 2.383 | 96 | 1322 | 0.17 | PPBV | # 57 |
| 27) CARBON DISULFIDE | 2.518 | 76 | 4174 | 0.17 | PPBV | # 62 |
| 28) ETHANOL | 2.007 | 45 | 1070 | 0.24 | PPBV | # 40 |
| 29) BROMOETHENE | 2.071 | 106 | 1132 | 0.15 | PPBV | # 87 |
| 30) ACRYLONITRILE | 2.274 | 52 | 1173 | 0.17 | PPBV | 89 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 1924 | 0.25 | PPBV | # 67 |
| 32) 3-CHLOROPROPENE | 2.464 | 76 | 648 | 0.15 | PPBV | # 1 |
| 33) FREON 113 | 2.515 | 151 | 2044 | 0.16 | PPBV | 91 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.772 | 96 | 1440 | 0.16 | PPBV | # 79 |
| 35) TERTIARY BUTYL ALCOHOL | 2.409 | 59 | 3019 | 0.14 | PPBV | # 93 |
| 36) METHYL TERTIARY BUTYL ... | 2.891 | 73 | 3849 | 0.15 | PPBV | # 59 |
| 37) TETRAHYDROFURAN | 3.672 | 72 | 688 | 0.22 | PPBV | # 33 |
| 38) HEXANE | 3.393 | 57 | 2638 | 0.21 | PPBV | # 69 |
| 39) VINYL ACETATE | 2.930 | 86 | 408m | 0.19 | PPBV | |
| 40) 1,1-DICHLOROETHANE | 2.853 | 63 | 2737 | 0.16 | PPBV | # 87 |
| 41) METHYL ETHYL KETONE | 3.052 | 72 | 747 | 0.18 | PPBV | # 19 |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 1447 | 0.20 | PPBV | # 81 |
| 43) DIISOPROPYL ETHER | 3.399 | 59 | 704 | 0.20 | PPBV | # 23 |
| 44) ETHYL ACETATE | 3.412 | 61 | 503 | 0.21 | PPBV | # 13 |
| 45) METHYL ACRYLATE | 3.390 | 55 | 3277 | 0.21 | PPBV | # 65 |
| 46) CHLOROFORM | 3.422 | 83 | 3234 | 0.21 | PPBV | # 90 |
| 47) 2,4-DIMETHYLPENTANE | 3.949 | 57 | 3157 | 0.22 | PPBV | # 92 |
| 48) 1,1,1-TRICHLOROETHANE | 4.036 | 97 | 3058 | 0.21 | PPBV | # 94 |
| 49) CARBON TETRACHLORIDE | 4.499 | 117 | 2874 | 0.19 | PPBV | 98 |
| 50) 1,2-DICHLOROETHANE | 3.869 | 62 | 2145 | 0.19 | PPBV | # 83 |
| 51) BENZENE | 4.380 | 78 | 4525 | 0.20 | PPBV | 80 |
| 53) CYCLOHEXANE | 4.602 | 84 | 1939 | 0.20 | PPBV | # 74 |
| 54) 2,3-DIMETHYLPENTANE | 4.872 | 71 | 1128 | 0.22 | PPBV | # 72 |
| 55) TRICHLOROETHENE | 5.344 | 95 | 2016 | 0.20 | PPBV | 88 |
| 56) 1,2-DICHLOROPROPANE | 5.097 | 63 | 1718 | 0.19 | PPBV | 93 |
| 57) DIBROMOMETHANE | 5.058 | 174 | 1698 | 0.17 | PPBV | # 80 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26004.D
Acq On : 15 Sep 2022 11:32 am
Operator : thomash
Sample : ic1105-0.2
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:25:42 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration

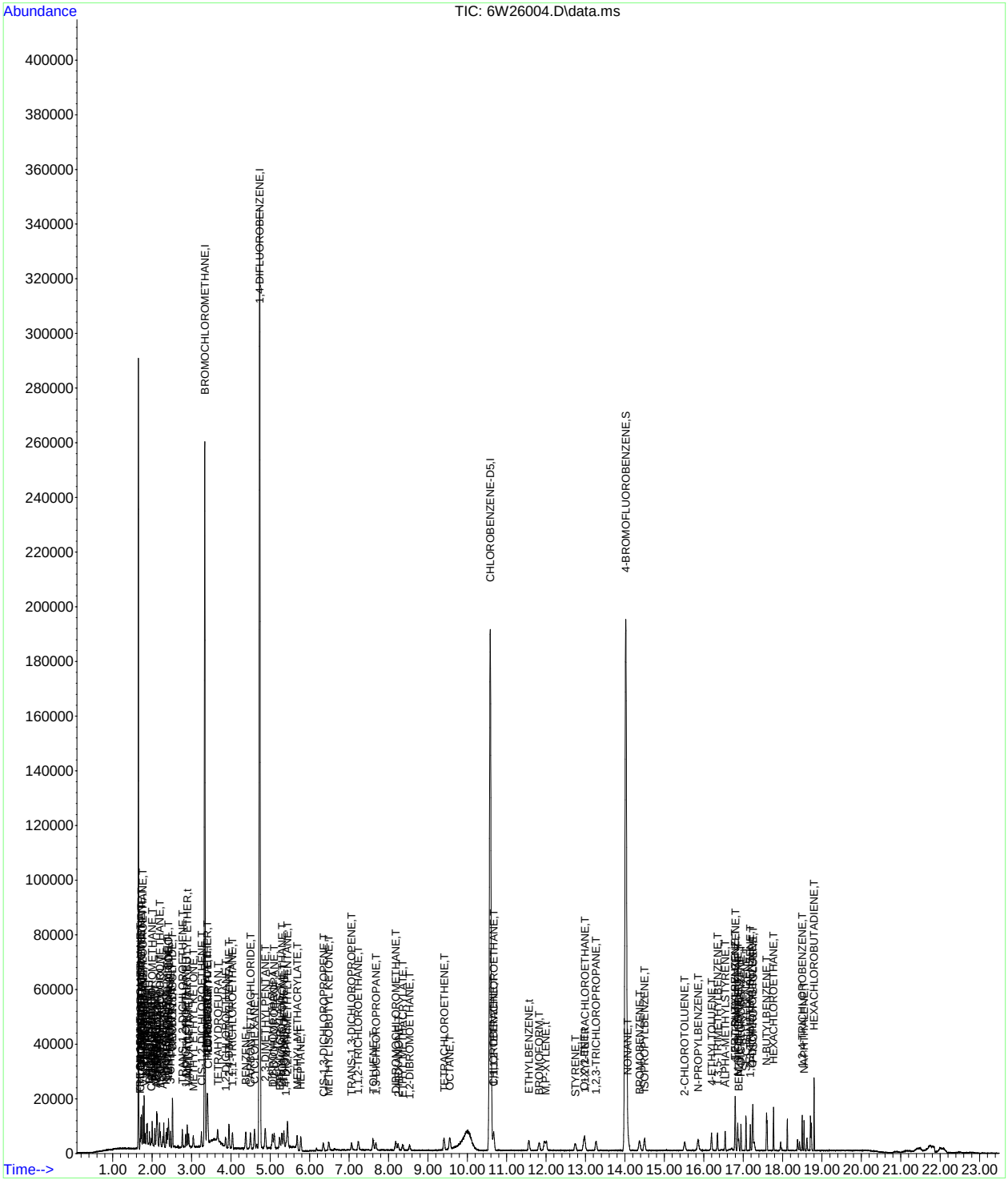
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.242 | 55 | 4029 | 0.21 | PPBV | # | 81 |
| 59) BROMODICHLOROMETHANE | 5.296 | 83 | 3479 | 0.20 | PPBV | | 98 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.438 | 57 | 8718 | 0.21 | PPBV | # | 95 |
| 61) 1,4-DIOXANE | 5.393 | 88 | 1090 | 0.23 | PPBV | # | 35 |
| 62) HEPTANE | 5.772 | 43 | 2374 | 0.15 | PPBV | # | 74 |
| 63) METHYL METHACRYLATE | 5.682 | 69 | 1552 | 0.19 | PPBV | # | 48 |
| 64) METHYL ISOBUTYL KETONE | 6.483 | 58 | 973 | 0.14 | PPBV | # | 36 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.354 | 75 | 1877 | 0.14 | PPBV | # | 66 |
| 66) TOLUENE | 7.611 | 91 | 3764 | 0.13 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.685 | 76 | 2071 | 0.14 | PPBV | # | 93 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.061 | 75 | 1753 | 0.14 | PPBV | # | 69 |
| 69) 1,1,2-TRICHLOROETHANE | 7.229 | 83 | 1326 | 0.16 | PPBV | | 86 |
| 70) 2-HEXANONE | 8.248 | 58 | 1249 | 0.16 | PPBV | # | 59 |
| 71) ETHYL METHACRYLATE | 8.360 | 69 | 1718 | 0.14 | PPBV | # | 67 |
| 72) TETRACHLOROETHENE | 9.415 | 164 | 1365 | 0.13 | PPBV | | 96 |
| 73) DIBROMOCHLOROMETHANE | 8.184 | 129 | 2342 | 0.15 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.537 | 107 | 1944 | 0.13 | PPBV | # | 97 |
| 75) OCTANE | 9.550 | 43 | 2680 | 0.13 | PPBV | # | 78 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.672 | 131 | 1487 | 0.17 | PPBV | # | 87 |
| 78) CHLOROBENZENE | 10.659 | 112 | 2844 | 0.17 | PPBV | | 91 |
| 79) ETHYLBENZENE | 11.560 | 91 | 4699 | 0.17 | PPBV | | 93 |
| 80) M,P-XYLENE | 11.994 | 91 | 6710 | 0.32 | PPBV | # | 61 |
| 81) O-XYLENE | 12.965 | 91 | 3609 | 0.16 | PPBV | | 95 |
| 82) STYRENE | 12.743 | 104 | 2453 | 0.16 | PPBV | | 94 |
| 83) NONANE | 14.074 | 43 | 3098 | 0.19 | PPBV | # | 71 |
| 84) BROMOFORM | 11.823 | 173 | 2324 | 0.21 | PPBV | # | 87 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.990 | 83 | 3306 | 0.19 | PPBV | # | 93 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.267 | 75 | 2451 | 0.19 | PPBV | # | 99 |
| 88) ISOPROPYLBENZENE | 14.495 | 120 | 1198 | 0.14 | PPBV | # | 72 |
| 89) BROMOBENZENE | 14.376 | 77 | 2968 | 0.18 | PPBV | | 88 |
| 90) 2-CHLOROTOLUENE | 15.508 | 126 | 1120 | 0.15 | PPBV | # | 42 |
| 91) N-PROPYLBENZENE | 15.855 | 120 | 1272 | 0.15 | PPBV | # | 62 |
| 92) 4-ETHYLTOLUENE | 16.199 | 105 | 4363 | 0.14 | PPBV | # | 97 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.350 | 105 | 3629 | 0.14 | PPBV | # | 89 |
| 94) ALPHA-METHYLSTYRENE | 16.550 | 118 | 1692 | 0.14 | PPBV | # | 92 |
| 95) TERT-BUTYLBENZENE | 16.794 | 134 | 1094 | 0.17 | PPBV | | 90 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.804 | 105 | 3617 | 0.13 | PPBV | # | 81 |
| 97) BENZYL CHLORIDE | 16.887 | 91 | 2304 | 0.11 | PPBV | # | 60 |
| 98) M-DICHLOROBENZENE | 16.865 | 146 | 2755 | 0.15 | PPBV | | 97 |
| 99) P-DICHLOROBENZENE | 16.942 | 146 | 2827 | 0.15 | PPBV | | 96 |
| 100) O-DICHLOROBENZENE | 17.235 | 146 | 2738 | 0.15 | PPBV | | 95 |
| 101) SEC-BUTYLBENZENE | 17.074 | 134 | 1170 | 0.15 | PPBV | | 98 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.180 | 105 | 3745 | 0.14 | PPBV | # | 86 |
| 103) P-ISOPROPYLTOLUENE | 17.251 | 134 | 1178 | 0.13 | PPBV | | 98 |
| 104) N-BUTYLBENZENE | 17.592 | 134 | 1076 | 0.13 | PPBV | | 87 |
| 105) HEXACHLOROETHANE | 17.768 | 117 | 1776 | 0.17 | PPBV | | 95 |
| 106) HEXACHLOROBUTADIENE | 18.800 | 225 | 2508 | 0.16 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.498 | 180 | 2001 | 0.11 | PPBV | | 99 |
| 108) NAPHTHALENE | 18.546 | 128 | 4410 | 0.10 | PPBV | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26004.D
Acq On : 15 Sep 2022 11:32 am
Operator : thomash
Sample : ic1105-0.2
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:25:42 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V6W1105-IC1105
**Lab FileID:** 6W26004.D
**Injection Time:** 09/15/22 11:32

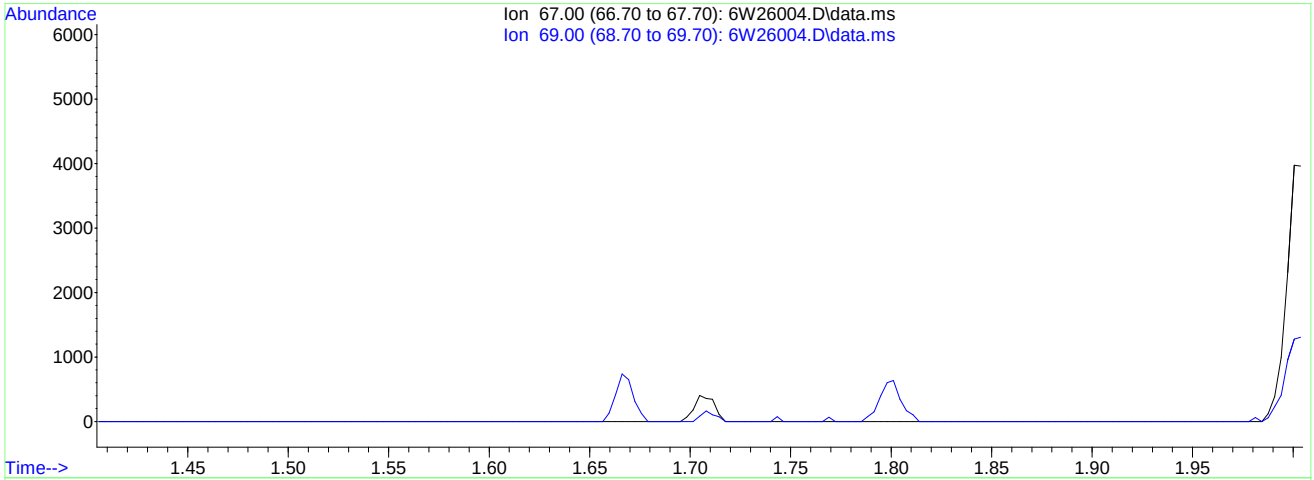
**Method:** TO-15
**Analyst approved:** 09/21/22 08:23 Thomas Hilbig
**Supervisor approved:** 09/21/22 11:19 Kanya Veerawat

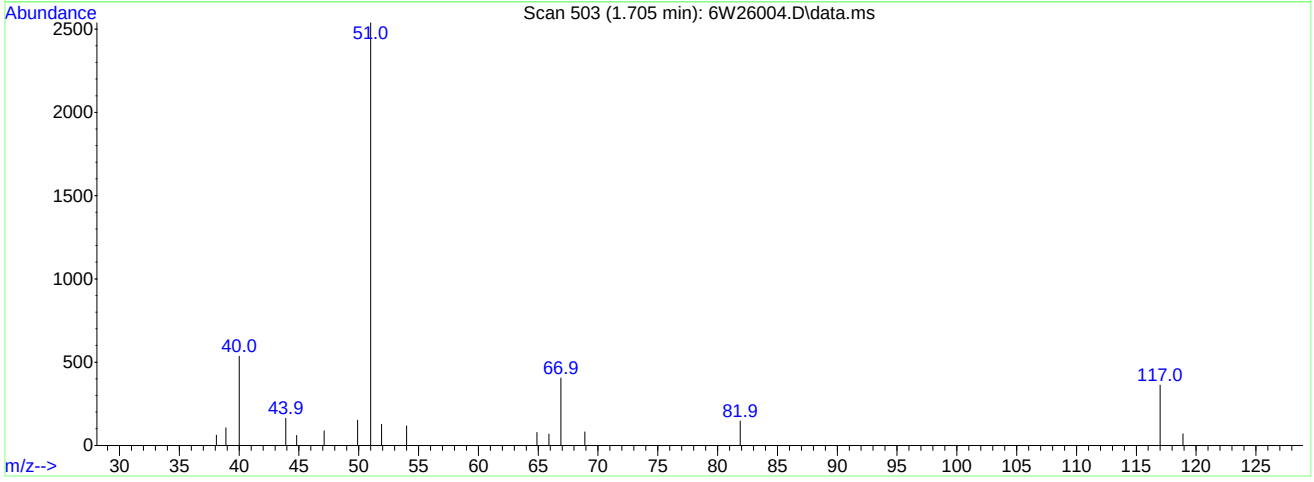
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Chlorodifluoromethane | 75-45-6 | | 1.70 | Missed peak |
| Vinyl Acetate | 108-05-4 | | 2.93 | Missed peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26004.D
Acq On : 15 Sep 2022 11:32 am
Operator : thomash
Sample : ic1105-0.2
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:17:13 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26004.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.705min (-1.705) 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 67.00 | 100 | 0.00 |
| 69.00 | 36.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

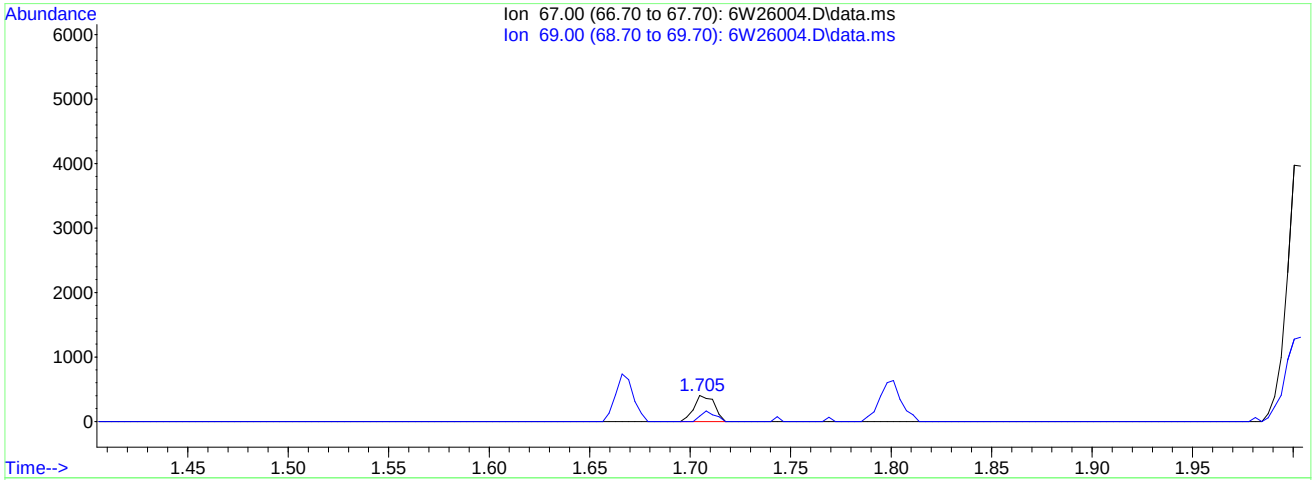


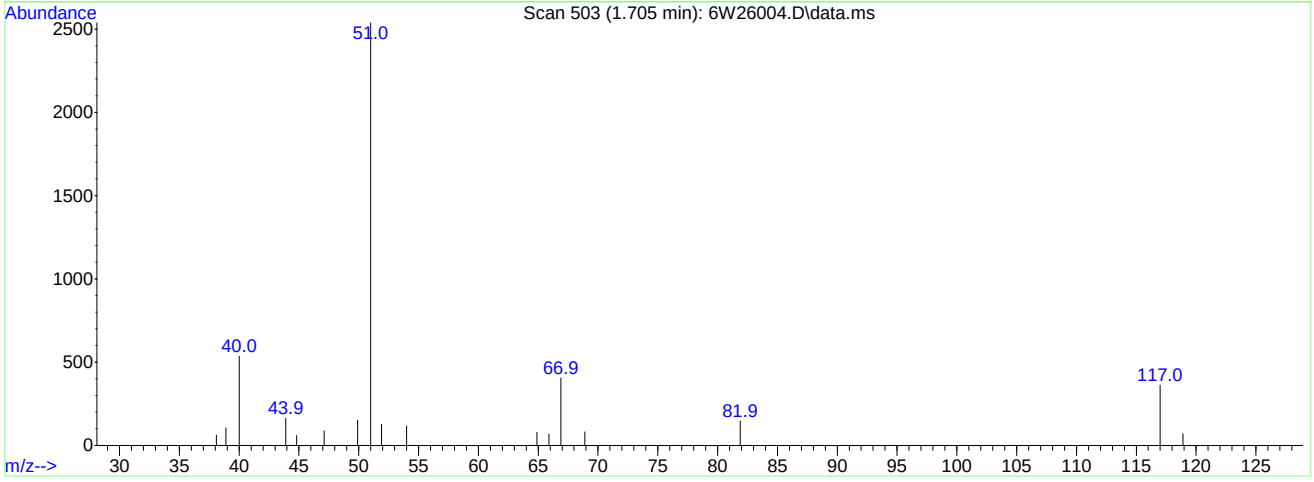
6W26004.D edits: CHLORODIFLUOROMETHANE

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26004.D
Acq On : 15 Sep 2022 11:32 am
Operator : thomash
Sample : ic1105-0.2
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:17:13 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26004.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.705min (-0.000) 0.16PPBV m

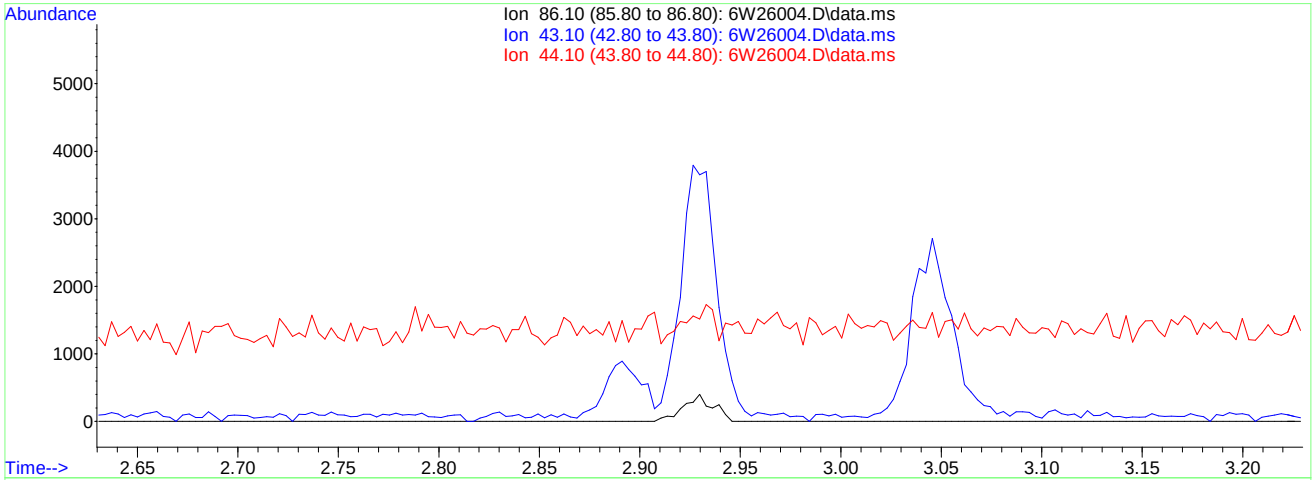
response 282

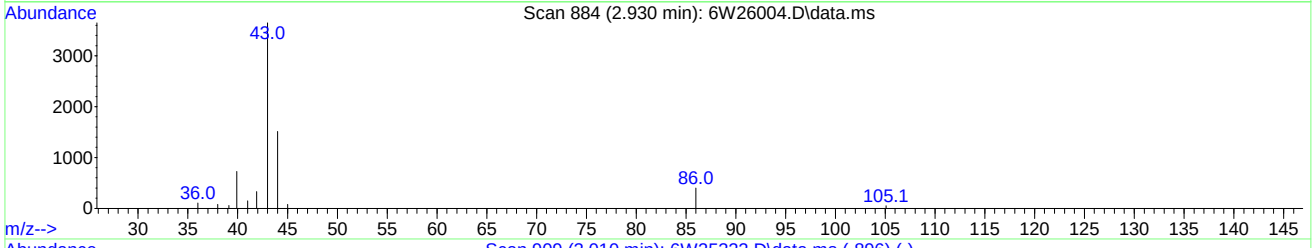
| Ion | Exp% | Act% |
|---|---|---|
| 67.00 | 100 | 100 |
| 69.00 | 36.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

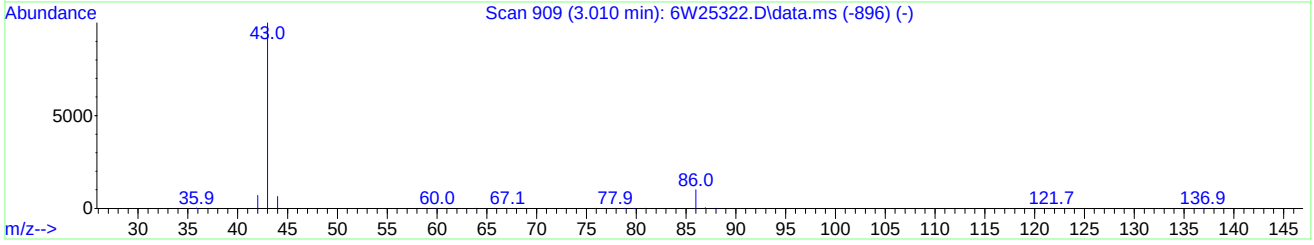
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26004.D
Acq On : 15 Sep 2022 11:32 am
Operator : thomash
Sample : ic1105-0.2
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:17:13 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26004.D\data.ms

(39) VINYL ACETATE (T)

2.930min (-2.930) 0.00PPBV

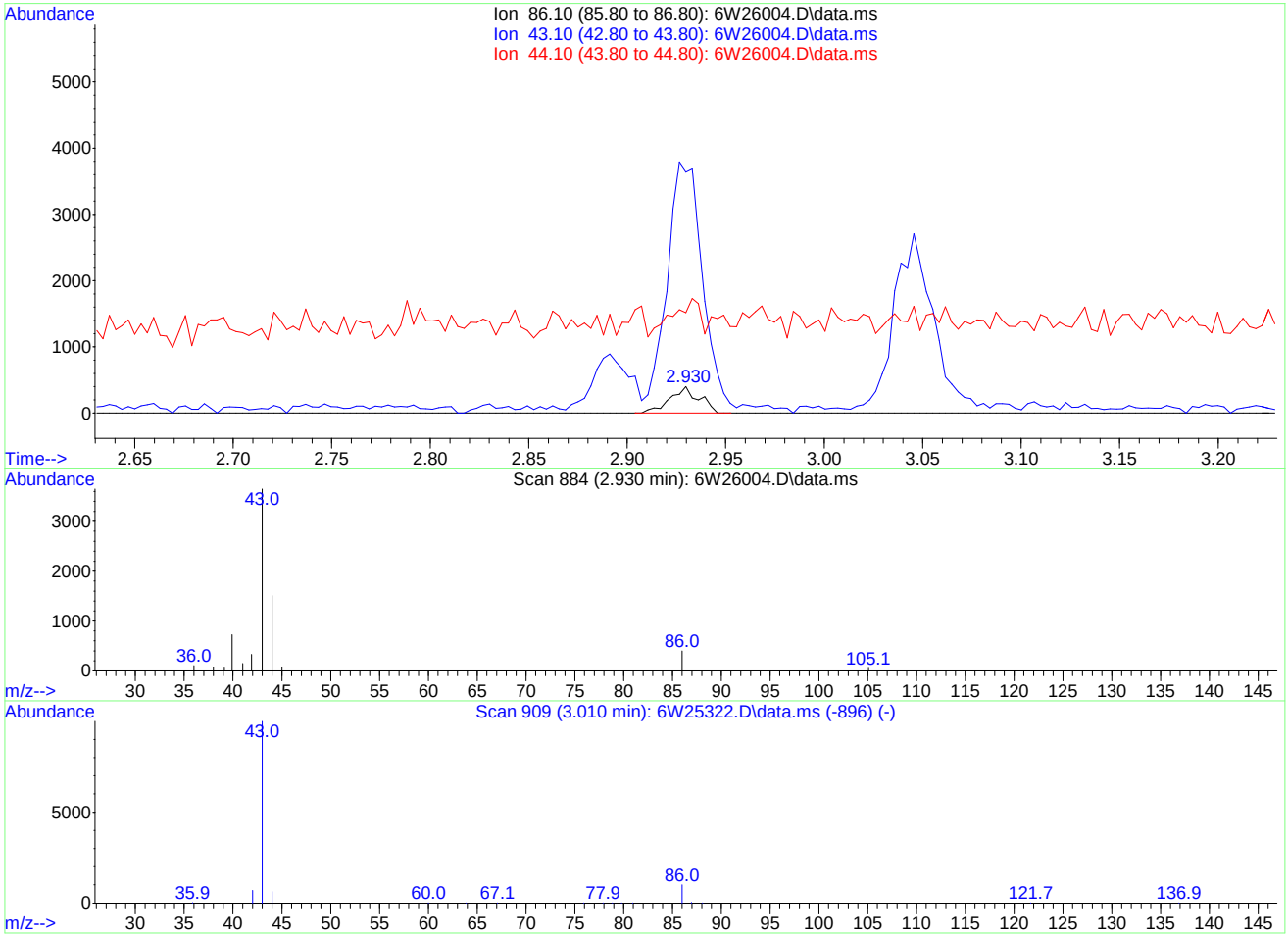
response 0

| Ion | Exp% | Act% |
|---|---|---|
| 86.10 | 100 | 0.00 |
| 43.10 | 782.90 | 0.00# |
| 44.10 | 43.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26004.D
Acq On : 15 Sep 2022 11:32 am
Operator : thomash
Sample : ic1105-0.2
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:17:13 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26004.D\data.ms

(39) VINYL ACETATE (T)

2.930min (-0.000) 0.19PPBV m

response 408

| Ion | Exp% | Act% |
|---|---|---|
| 86.10 | 100 | 100 |
| 43.10 | 782.90 | 0.00# |
| 44.10 | 43.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/21/22 11:19

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26005.D
Acq On : 15 Sep 2022 12:06 pm
Operator : thomash
Sample : ic1105-0.5
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:05:58 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 41167 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.730 | 114 | 229434 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 156289 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.026 | 95 | 111484 | 10.11 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 1623 | 0.44 | PPBV | # 80 |
| 4) CHLORODIFLUOROMETHANE | 1.708 | 67 | 788 | 0.47 | PPBV | # 39 |
| 5) CHLOROTRIFLUOROETHENE | 1.717 | 116 | 3146 | 0.40 | PPBV | # 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.730 | 85 | 8659m | 0.44 | PPBV | |
| 7) PROPYLENE | 1.714 | 41 | 2210 | 0.40 | PPBV | 95 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 8164 | 0.39 | PPBV | # 75 |
| 9) FREON 114 | 1.798 | 85 | 8828 | 0.42 | PPBV | 90 |
| 10) CHLOROMETHANE | 1.772 | 52 | 1179 | 0.47 | PPBV | 96 |
| 11) VINYL CHLORIDE | 1.827 | 62 | 3764 | 0.41 | PPBV | # 95 |
| 12) 1,3-BUTADIENE | 1.865 | 54 | 2932 | 0.44 | PPBV | # 63 |
| 13) N-BUTANE | 1.878 | 43 | 6229 | 0.41 | PPBV | # 89 |
| 14) BROMOMETHANE | 1.933 | 94 | 3125 | 0.43 | PPBV | # 94 |
| 15) CHLOROETHANE | 1.978 | 64 | 1912 | 0.39 | PPBV | 96 |
| 16) DICHLOROFLUOROMETHANE | 2.004 | 67 | 7880 | 0.42 | PPBV | # 97 |
| 17) ACETONITRILE | 2.068 | 41 | 4197 | 0.48 | PPBV | # 95 |
| 18) ACROLEIN | 2.103 | 56 | 1779 | 0.60 | PPBV | 90 |
| 19) FREON 123 | 2.116 | 83 | 7549 | 0.41 | PPBV | 98 |
| 20) FREON 123A | 2.129 | 117 | 3564 | 0.36 | PPBV | # 47 |
| 21) TRICHLOROFLUOROMETHANE | 2.190 | 101 | 8017 | 0.38 | PPBV | 97 |
| 22) ISOPROPYL ALCOHOL | 2.209 | 45 | 8368 | 0.44 | PPBV | # 94 |
| 23) ACETONE | 2.139 | 58 | 1988 | 0.38 | PPBV | # 27 |
| 24) PENTANE | 2.296 | 42 | 4359 | 0.44 | PPBV | # 92 |
| 25) IODOMETHANE | 2.357 | 142 | 7428 | 0.39 | PPBV | # 85 |
| 26) 1,1-DICHLOROETHYLENE | 2.383 | 96 | 3023 | 0.39 | PPBV | # 48 |
| 27) CARBON DISULFIDE | 2.521 | 76 | 10176 | 0.42 | PPBV | # 82 |
| 28) ETHANOL | 2.007 | 45 | 2397 | 0.56 | PPBV | # 87 |
| 29) BROMOETHENE | 2.071 | 106 | 2957 | 0.42 | PPBV | # 90 |
| 30) ACRYLONITRILE | 2.274 | 52 | 2643 | 0.40 | PPBV | # 91 |
| 31) METHYLENE CHLORIDE | 2.418 | 84 | 3848 | 0.53 | PPBV | # 64 |
| 32) 3-CHLOROPROPENE | 2.460 | 76 | 1578 | 0.38 | PPBV | # 1 |
| 33) FREON 113 | 2.518 | 151 | 4964 | 0.40 | PPBV | 89 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 3374 | 0.39 | PPBV | # 78 |
| 35) TERTIARY BUTYL ALCOHOL | 2.402 | 59 | 7005 | 0.33 | PPBV | # 92 |
| 36) METHYL TERTIARY BUTYL ... | 2.891 | 73 | 8990 | 0.36 | PPBV | # 82 |
| 37) TETRAHYDROFURAN | 3.659 | 72 | 1584 | 0.53 | PPBV | # 46 |
| 38) HEXANE | 3.389 | 57 | 6142 | 0.51 | PPBV | # 70 |
| 39) VINYL ACETATE | 2.933 | 86 | 902 | 0.43 | PPBV | # 1 |
| 40) 1,1-DICHLOROETHANE | 2.849 | 63 | 6493 | 0.40 | PPBV | 97 |
| 41) METHYL ETHYL KETONE | 3.045 | 72 | 1735 | 0.42 | PPBV | # 1 |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 3529 | 0.51 | PPBV | # 76 |
| 43) DIISOPROPYL ETHER | 3.402 | 59 | 1734 | 0.50 | PPBV | # 42 |
| 44) ETHYL ACETATE | 3.405 | 61 | 1256 | 0.54 | PPBV | # 6 |
| 45) METHYL ACRYLATE | 3.393 | 55 | 8059 | 0.54 | PPBV | # 99 |
| 46) CHLOROFORM | 3.422 | 83 | 7558 | 0.51 | PPBV | # 92 |
| 47) 2,4-DIMETHYLPENTANE | 3.949 | 57 | 7042 | 0.51 | PPBV | 94 |
| 48) 1,1,1-TRICHLOROETHANE | 4.045 | 97 | 7169 | 0.50 | PPBV | # 89 |
| 49) CARBON TETRACHLORIDE | 4.495 | 117 | 6725 | 0.47 | PPBV | 97 |
| 50) 1,2-DICHLOROETHANE | 3.868 | 62 | 5560 | 0.52 | PPBV | # 91 |
| 51) BENZENE | 4.377 | 78 | 10883 | 0.51 | PPBV | 82 |
| 53) CYCLOHEXANE | 4.602 | 84 | 4578 | 0.48 | PPBV | # 77 |
| 54) 2,3-DIMETHYLPENTANE | 4.875 | 71 | 2490 | 0.51 | PPBV | # 64 |
| 55) TRICHLOROETHENE | 5.344 | 95 | 4577 | 0.47 | PPBV | 91 |
| 56) 1,2-DICHLOROPROPANE | 5.100 | 63 | 4720 | 0.55 | PPBV | 98 |
| 57) DIBROMOMETHANE | 5.061 | 174 | 4035 | 0.43 | PPBV | # 82 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26005.D
Acq On : 15 Sep 2022 12:06 pm
Operator : thomash
Sample : ic1105-0.5
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:05:58 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration

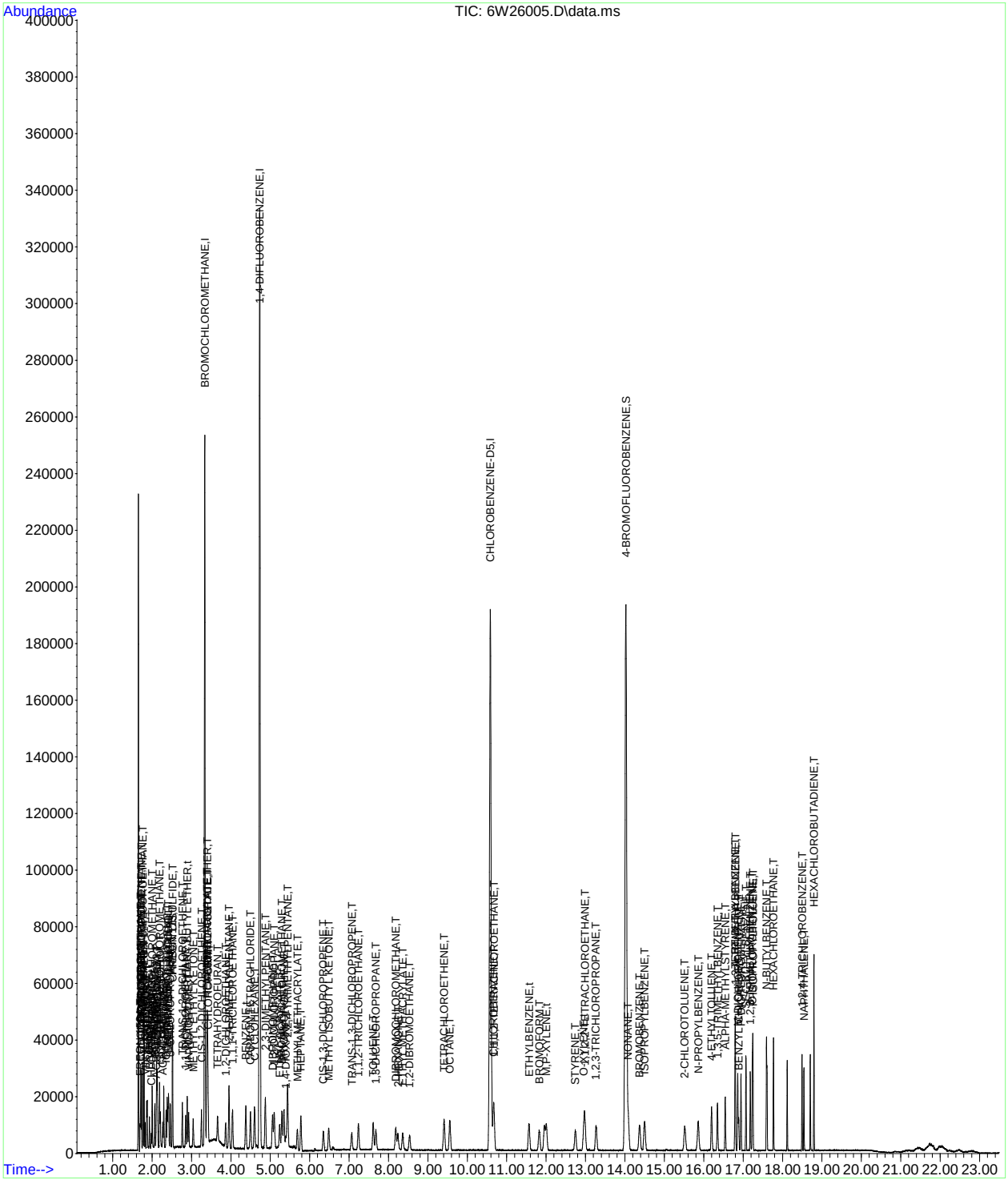
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.238 | 55 | 9609 | 0.53 | PPBV | # | 93 |
| 59) BROMODICHLOROMETHANE | 5.293 | 83 | 8380 | 0.51 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.441 | 57 | 20728 | 0.52 | PPBV | # | 99 |
| 61) 1,4-DIOXANE | 5.393 | 88 | 2542 | 0.56 | PPBV | # | 66 |
| 62) HEPTANE | 5.772 | 43 | 5357 | 0.36 | PPBV | # | 80 |
| 63) METHYL METHACRYLATE | 5.692 | 69 | 3250 | 0.42 | PPBV | # | 61 |
| 64) METHYL ISOBUTYL KETONE | 6.479 | 58 | 2559 | 0.38 | PPBV | # | 63 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.344 | 75 | 4592 | 0.37 | PPBV | # | 71 |
| 66) TOLUENE | 7.608 | 91 | 9081 | 0.34 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.675 | 76 | 4969 | 0.36 | PPBV | # | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.071 | 75 | 4075 | 0.35 | PPBV | # | 74 |
| 69) 1,1,2-TRICHLOROETHANE | 7.238 | 83 | 3225 | 0.40 | PPBV | | 94 |
| 70) 2-HEXANONE | 8.241 | 58 | 2813 | 0.38 | PPBV | # | 39 |
| 71) ETHYL METHACRYLATE | 8.360 | 69 | 4180 | 0.35 | PPBV | # | 70 |
| 72) TETRACHLOROETHENE | 9.412 | 164 | 3480 | 0.36 | PPBV | | 97 |
| 73) DIBROMOCHLOROMETHANE | 8.180 | 129 | 5555 | 0.37 | PPBV | | 98 |
| 74) 1,2-DIBROMOETHANE | 8.534 | 107 | 5218 | 0.36 | PPBV | # | 98 |
| 75) OCTANE | 9.556 | 43 | 6620 | 0.33 | PPBV | # | 75 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.675 | 131 | 3780 | 0.44 | PPBV | # | 85 |
| 78) CHLOROBENZENE | 10.662 | 112 | 7527 | 0.44 | PPBV | | 92 |
| 79) ETHYLBENZENE | 11.572 | 91 | 11433 | 0.41 | PPBV | | 97 |
| 80) M,P-XYLENE | 12.003 | 91 | 17053m | 0.80 | PPBV | | |
| 81) O-XYLENE | 12.952 | 91 | 8401 | 0.38 | PPBV | | 89 |
| 82) STYRENE | 12.733 | 104 | 5776 | 0.38 | PPBV | # | 93 |
| 83) NONANE | 14.077 | 43 | 7967 | 0.48 | PPBV | # | 73 |
| 84) BROMOFORM | 11.826 | 173 | 5405 | 0.50 | PPBV | # | 91 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.981 | 83 | 8383 | 0.49 | PPBV | # | 99 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.260 | 75 | 6234 | 0.49 | PPBV | # | 99 |
| 88) ISOPROPYLBENZENE | 14.498 | 120 | 3057 | 0.37 | PPBV | # | 75 |
| 89) BROMOBENZENE | 14.373 | 77 | 7178 | 0.44 | PPBV | | 89 |
| 90) 2-CHLOROTOLUENE | 15.518 | 126 | 2646 | 0.37 | PPBV | | 96 |
| 91) N-PROPYLBENZENE | 15.862 | 120 | 2909 | 0.35 | PPBV | # | 62 |
| 92) 4-ETHYLTOLUENE | 16.196 | 105 | 10801 | 0.36 | PPBV | # | 97 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.350 | 105 | 9041 | 0.36 | PPBV | # | 95 |
| 94) ALPHA-METHYLSTYRENE | 16.546 | 118 | 4337 | 0.37 | PPBV | | 93 |
| 95) TERT-BUTYLBENZENE | 16.797 | 134 | 2136 | 0.33 | PPBV | | 91 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.804 | 105 | 9489 | 0.35 | PPBV | | 93 |
| 97) BENZYL CHLORIDE | 16.884 | 91 | 5788 | 0.27 | PPBV | # | 95 |
| 98) M-DICHLOROBENZENE | 16.862 | 146 | 7301 | 0.40 | PPBV | | 97 |
| 99) P-DICHLOROBENZENE | 16.945 | 146 | 7088 | 0.38 | PPBV | | 97 |
| 100) O-DICHLOROBENZENE | 17.235 | 146 | 7065 | 0.40 | PPBV | | 95 |
| 101) SEC-BUTYLBENZENE | 17.071 | 134 | 2696 | 0.34 | PPBV | | 78 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.180 | 105 | 9619 | 0.37 | PPBV | # | 95 |
| 103) P-ISOPROPYLTOLUENE | 17.251 | 134 | 3153 | 0.35 | PPBV | | 94 |
| 104) N-BUTYLBENZENE | 17.591 | 134 | 2647 | 0.31 | PPBV | | 71 |
| 105) HEXACHLOROETHANE | 17.768 | 117 | 4294 | 0.41 | PPBV | | 94 |
| 106) HEXACHLOROBUTADIENE | 18.797 | 225 | 6344 | 0.40 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.495 | 180 | 5119 | 0.28 | PPBV | | 98 |
| 108) NAPHTHALENE | 18.543 | 128 | 11951 | 0.27 | PPBV | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26005.D
Acq On : 15 Sep 2022 12:06 pm
Operator : thomash
Sample : ic1105-0.5
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:05:58 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



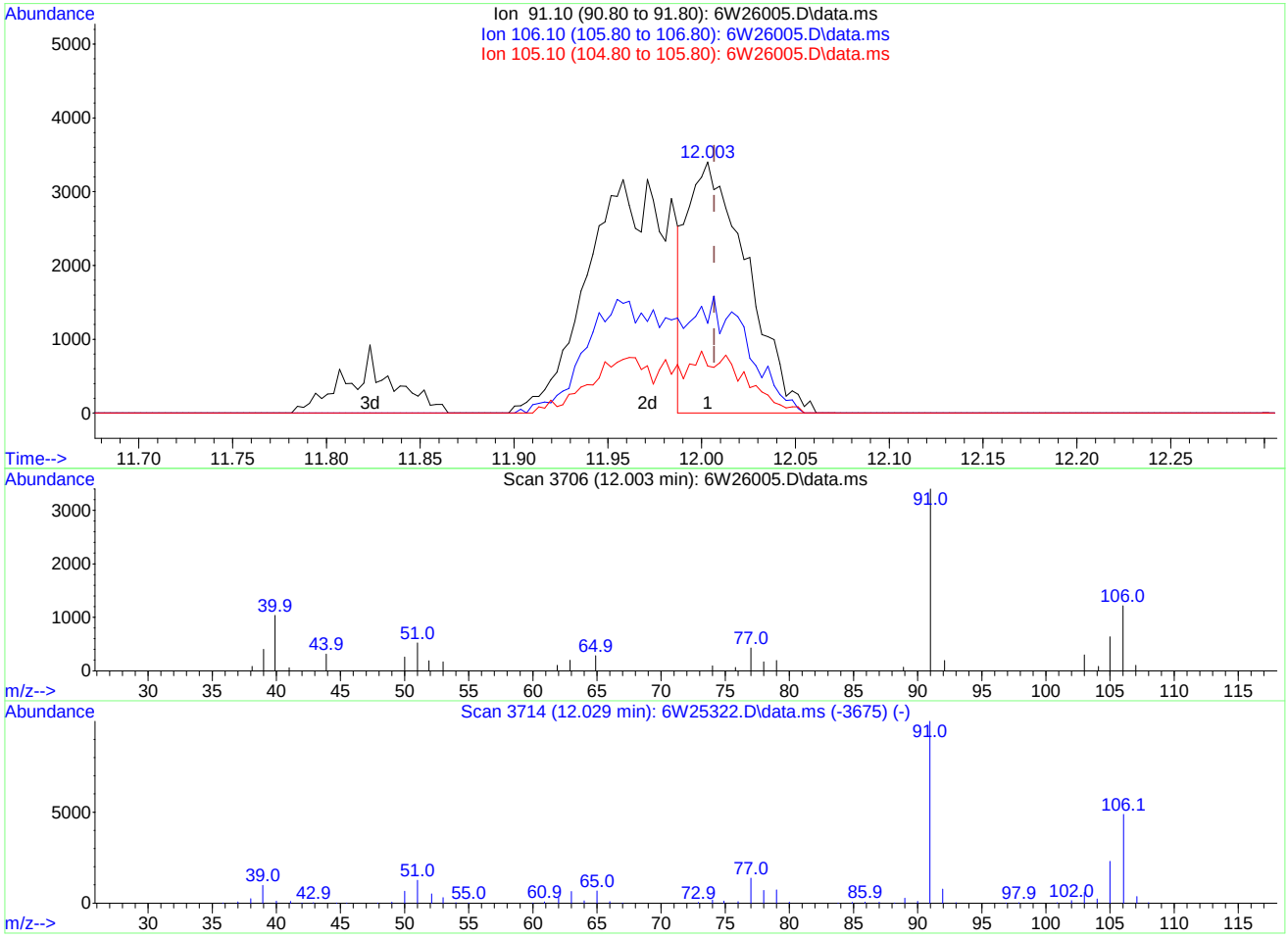
**Sample Number:** V6W1105-IC1105
**Lab FileID:** 6W26005.D
**Injection Time:** 09/15/22 12:06
**Method:** TO-15
**Analyst approved:** 09/21/22 08:23 Thomas Hilbig
**Supervisor approved:** 09/21/22 11:19 Kanya Veerawat

| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.73 | Missed peak |
| m,p-Xylene | | | 12.00 | Split peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26005.D
Acq On : 15 Sep 2022 12:06 pm
Operator : thomash
Sample : ic1105-0.5
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:17:03 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26005.D\data.ms

(80) M,P-XYLENE (t)

12.003min (-0.003) 0.36PPBV

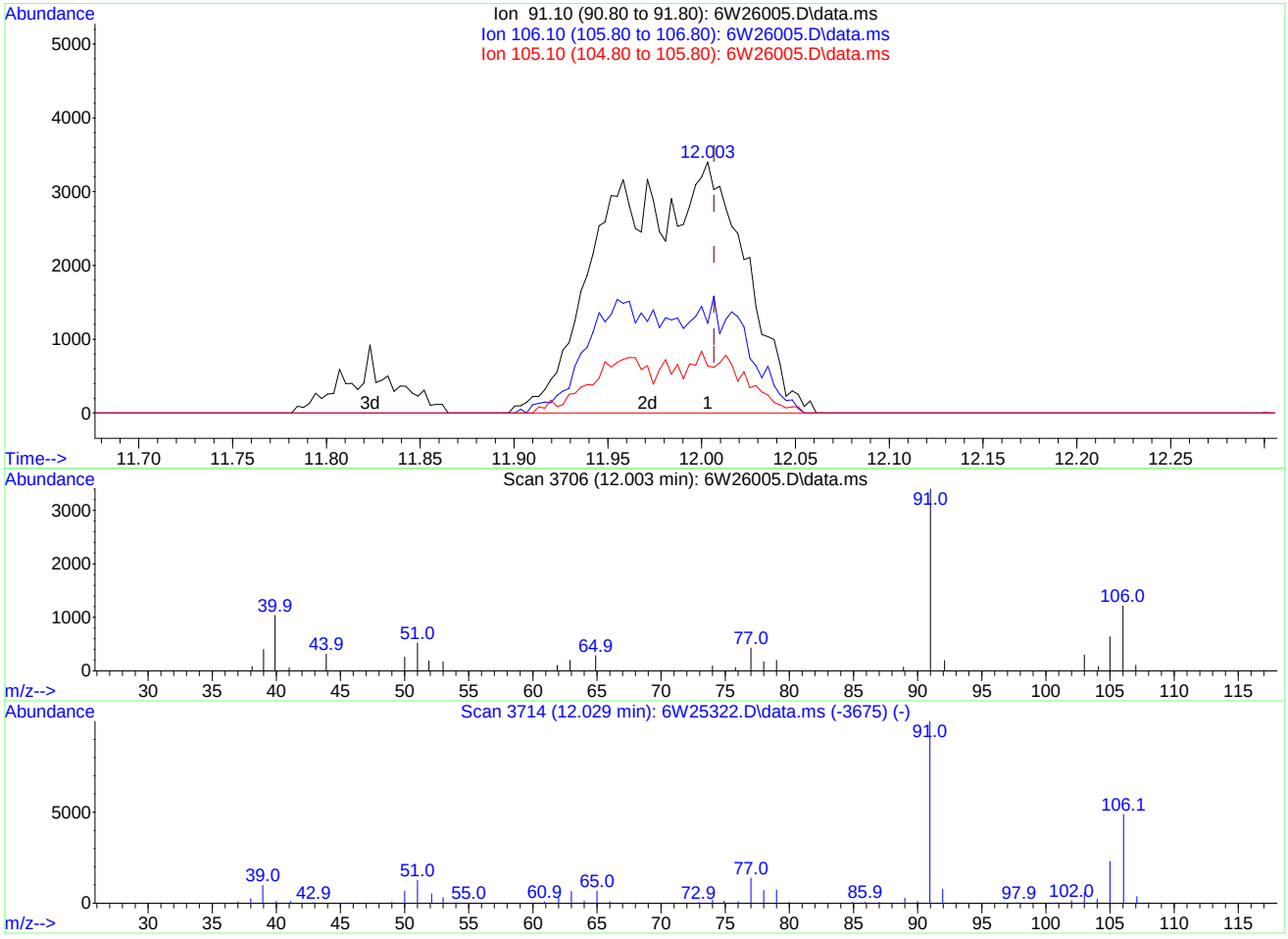
response 7587

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 38.88 |
| 105.10 | 23.60 | 28.55 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26005.D
Acq On : 15 Sep 2022 12:06 pm
Operator : thomash
Sample : ic1105-0.5
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:17:03 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26005.D\data.ms

(80) M,P-XYLENE (t)

12.003min (-0.003) 0.80PPBV m

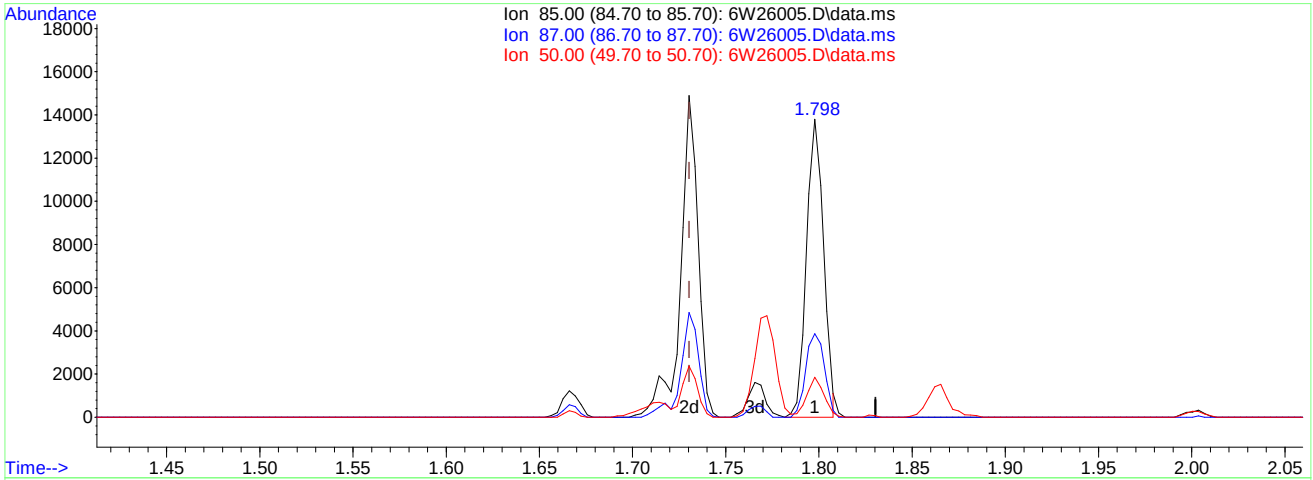
response 17053

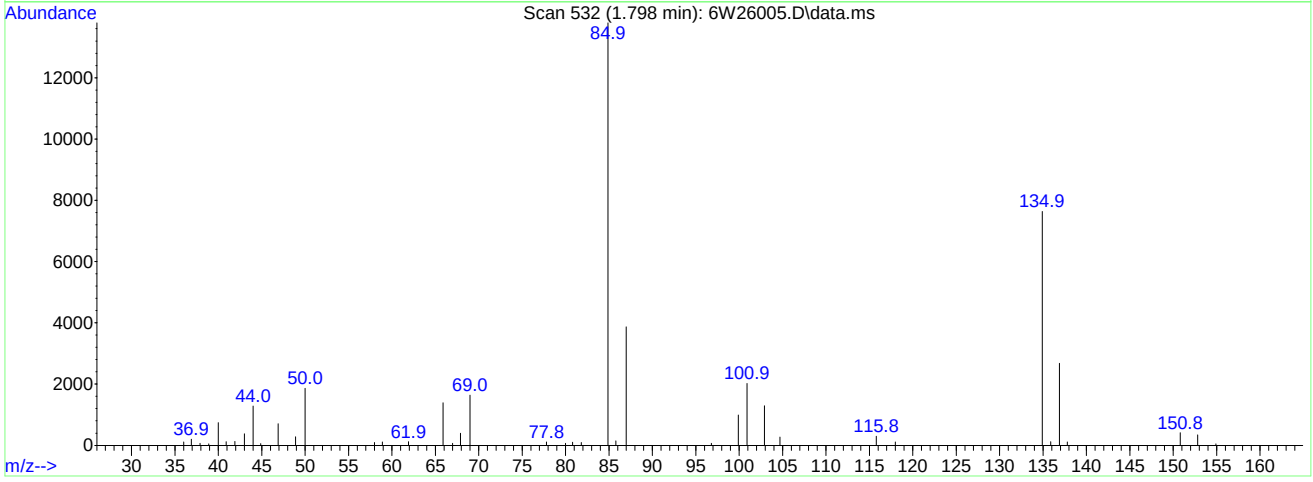
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 17.30# |
| 105.10 | 23.60 | 12.70 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26005.D
Acq On : 15 Sep 2022 12:06 pm
Operator : thomash
Sample : ic1105-0.5
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:31:07 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26005.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.798min (+0.067) 0.44PPBV

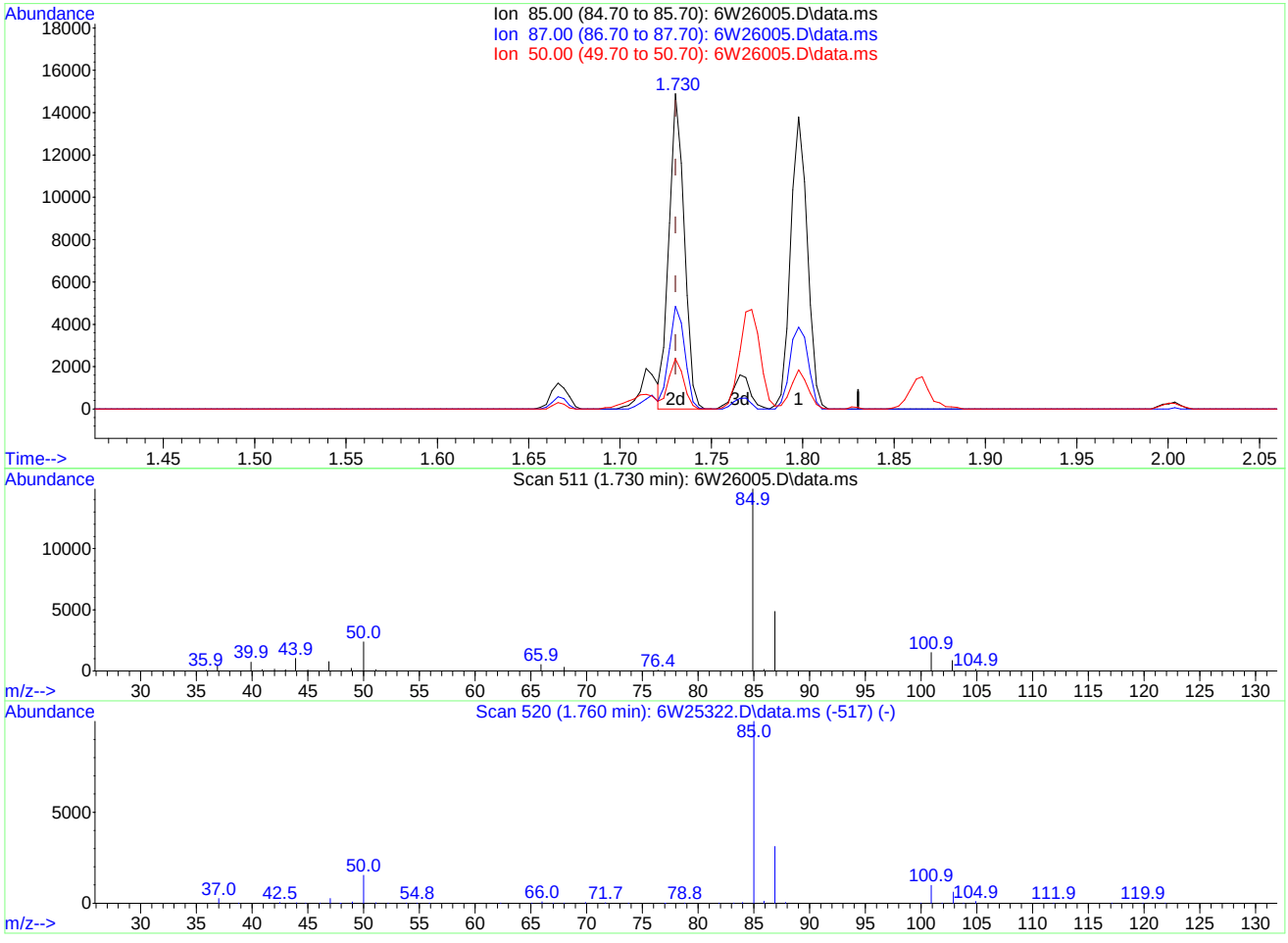
response 8786

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 30.98 |
| 50.00 | 9.30 | 11.10 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26005.D
Acq On : 15 Sep 2022 12:06 pm
Operator : thomash
Sample : ic1105-0.5
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:31:07 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26005.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (-0.000) 0.44PPBV m

response 8659

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 31.44 |
| 50.00 | 9.30 | 11.26# |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/21/22 11:19

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26007.D
Acq On : 15 Sep 2022 1:12 pm
Operator : thomash
Sample : ic1105-5
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 08:06:51 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 41869 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.730 | 114 | 230215 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.582 | 117 | 162921 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.026 | 95 | 119473 | 10.39 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 16883 | 4.48 | PPBV | # | 82 |
| 4) CHLORODIFLUOROMETHANE | 1.705 | 67 | 7856 | 4.62 | PPBV | | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.717 | 116 | 33171 | 4.10 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.730 | 85 | 83015m | 4.13 | PPBV | | |
| 7) PROPYLENE | 1.714 | 41 | 22963 | 4.13 | PPBV | | 95 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 79198 | 3.76 | PPBV | # | 86 |
| 9) FREON 114 | 1.798 | 85 | 85539 | 3.96 | PPBV | | 91 |
| 10) CHLOROMETHANE | 1.772 | 52 | 11255 | 4.43 | PPBV | | 95 |
| 11) VINYL CHLORIDE | 1.827 | 62 | 36067 | 3.87 | PPBV | | 99 |
| 12) 1,3-BUTADIENE | 1.865 | 54 | 28488 | 4.16 | PPBV | # | 69 |
| 13) N-BUTANE | 1.878 | 43 | 59306 | 3.88 | PPBV | # | 90 |
| 14) BROMOMETHANE | 1.933 | 94 | 29018 | 3.89 | PPBV | | 100 |
| 15) CHLOROETHANE | 1.978 | 64 | 18515 | 3.71 | PPBV | | 97 |
| 16) DICHLOROFLUOROMETHANE | 2.000 | 67 | 78124 | 4.06 | PPBV | # | 95 |
| 17) ACETONITRILE | 2.065 | 41 | 37257 | 4.15 | PPBV | | 94 |
| 18) ACROLEIN | 2.100 | 56 | 18075 | 6.03 | PPBV | | 97 |
| 19) FREON 123 | 2.116 | 83 | 75901 | 4.09 | PPBV | | 97 |
| 20) FREON 123A | 2.132 | 117 | 37193 | 3.66 | PPBV | # | 60 |
| 21) TRICHLOROFLUOROMETHANE | 2.190 | 101 | 81186 | 3.82 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.206 | 45 | 78870 | 4.08 | PPBV | # | 95 |
| 23) ACETONE | 2.139 | 58 | 18274 | 3.47 | PPBV | # | 30 |
| 24) PENTANE | 2.296 | 42 | 41215 | 4.12 | PPBV | # | 94 |
| 25) IODOMETHANE | 2.357 | 142 | 72144 | 3.72 | PPBV | # | 84 |
| 26) 1,1-DICHLOROETHYLENE | 2.383 | 96 | 30006 | 3.85 | PPBV | # | 49 |
| 27) CARBON DISULFIDE | 2.521 | 76 | 100775 | 4.13 | PPBV | # | 87 |
| 28) ETHANOL | 2.007 | 45 | 19178 | 4.41 | PPBV | # | 96 |
| 29) BROMOETHENE | 2.071 | 106 | 27819 | 3.85 | PPBV | # | 97 |
| 30) ACRYLONITRILE | 2.271 | 52 | 27993 | 4.14 | PPBV | | 95 |
| 31) METHYLENE CHLORIDE | 2.418 | 84 | 30842 | 4.18 | PPBV | # | 61 |
| 32) 3-CHLOROPROPENE | 2.463 | 76 | 16012 | 3.74 | PPBV | # | 8 |
| 33) FREON 113 | 2.518 | 151 | 47891 | 3.77 | PPBV | | 84 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 33287 | 3.81 | PPBV | # | 79 |
| 35) TERTIARY BUTYL ALCOHOL | 2.396 | 59 | 70919 | 3.31 | PPBV | # | 91 |
| 36) METHYL TERTIARY BUTYL ... | 2.888 | 73 | 87202 | 3.45 | PPBV | # | 92 |
| 37) TETRAHYDROFURAN | 3.656 | 72 | 16588 | 5.41 | PPBV | # | 52 |
| 38) HEXANE | 3.389 | 57 | 60840 | 4.95 | PPBV | # | 74 |
| 39) VINYL ACETATE | 2.930 | 86 | 8658 | 4.05 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.852 | 63 | 66052 | 3.96 | PPBV | | 98 |
| 41) METHYL ETHYL KETONE | 3.039 | 72 | 17320 | 4.15 | PPBV | # | 10 |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 33508 | 4.72 | PPBV | # | 77 |
| 43) DIISOPROPYL ETHER | 3.399 | 59 | 18084 | 5.15 | PPBV | # | 50 |
| 44) ETHYL ACETATE | 3.409 | 61 | 13219 | 5.54 | PPBV | # | 34 |
| 45) METHYL ACRYLATE | 3.389 | 55 | 79991 | 5.29 | PPBV | # | 98 |
| 46) CHLOROFORM | 3.422 | 83 | 74502 | 4.97 | PPBV | # | 92 |
| 47) 2,4-DIMETHYLPENTANE | 3.952 | 57 | 71158 | 5.08 | PPBV | # | 93 |
| 48) 1,1,1-TRICHLOROETHANE | 4.042 | 97 | 69631 | 4.82 | PPBV | # | 92 |
| 49) CARBON TETRACHLORIDE | 4.499 | 117 | 65729 | 4.55 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.869 | 62 | 53868 | 4.97 | PPBV | # | 96 |
| 51) BENZENE | 4.380 | 78 | 104758 | 4.82 | PPBV | | 83 |
| 53) CYCLOHEXANE | 4.598 | 84 | 44781 | 4.70 | PPBV | # | 81 |
| 54) 2,3-DIMETHYLPENTANE | 4.875 | 71 | 24051 | 4.93 | PPBV | # | 65 |
| 55) TRICHLOROETHENE | 5.348 | 95 | 45510 | 4.63 | PPBV | | 91 |
| 56) 1,2-DICHLOROPROPANE | 5.103 | 63 | 44310 | 5.16 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.055 | 174 | 38889 | 4.13 | PPBV | # | 84 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26007.D
Acq On : 15 Sep 2022 1:12 pm
Operator : thomash
Sample : ic1105-5
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 08:06:51 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration

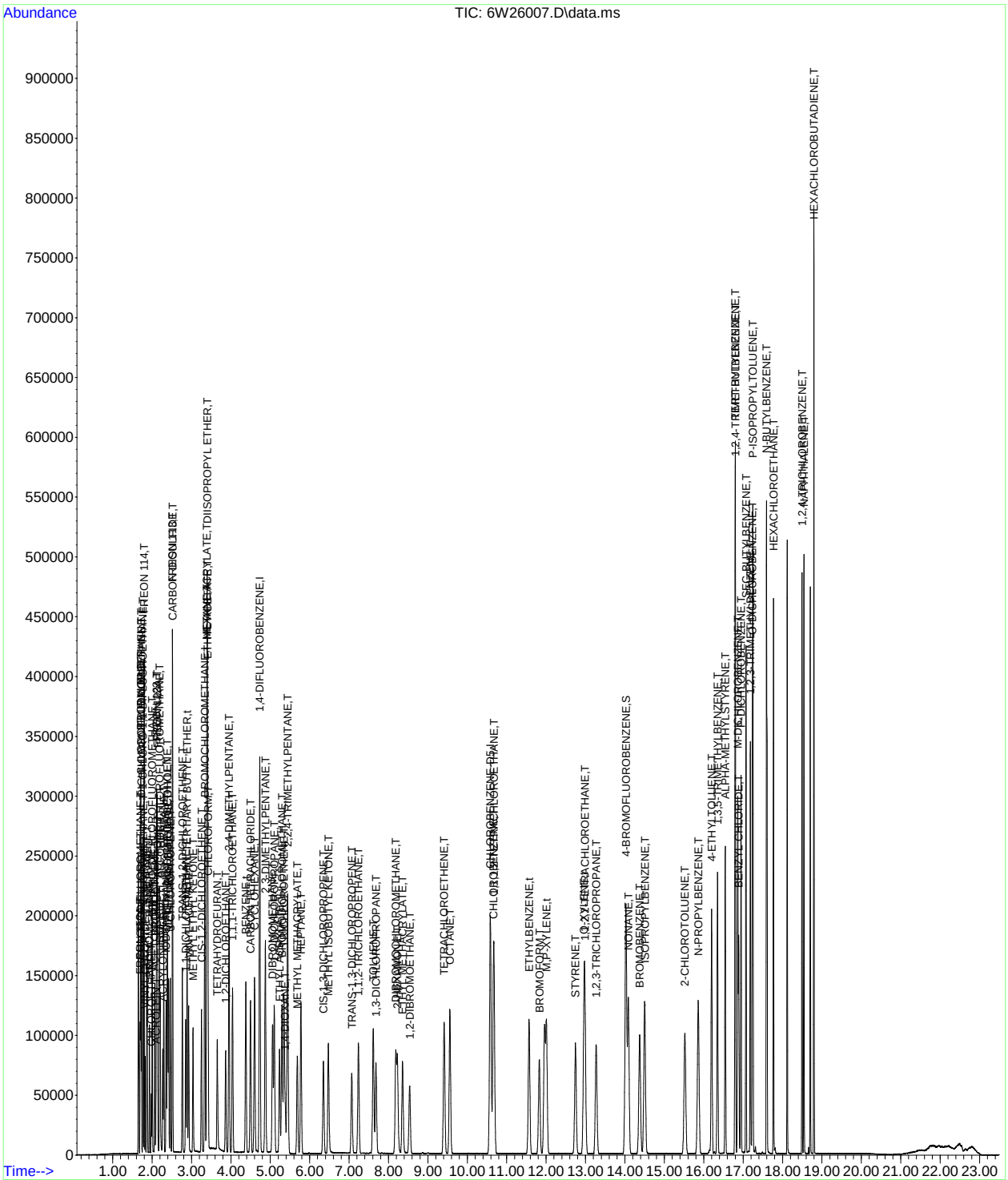
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.235 | 55 | 97704 | 5.36 | PPBV | # | 96 |
| 59) BROMODICHLOROMETHANE | 5.296 | 83 | 83880 | 5.12 | PPBV | | 96 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.441 | 57 | 200041 | 5.04 | PPBV | # | 98 |
| 61) 1,4-DIOXANE | 5.377 | 88 | 23915 | 5.24 | PPBV | # | 77 |
| 62) HEPTANE | 5.778 | 43 | 58464 | 3.96 | PPBV | # | 77 |
| 63) METHYL METHACRYLATE | 5.685 | 69 | 32566 | 4.18 | PPBV | # | 60 |
| 64) METHYL ISOBUTYL KETONE | 6.473 | 58 | 28816 | 4.22 | PPBV | # | 60 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.348 | 75 | 49075 | 3.93 | PPBV | # | 74 |
| 66) TOLUENE | 7.614 | 91 | 99203 | 3.70 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.685 | 76 | 55640 | 4.06 | PPBV | # | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.071 | 75 | 43746 | 3.72 | PPBV | # | 75 |
| 69) 1,1,2-TRICHLOROETHANE | 7.235 | 83 | 33006 | 4.09 | PPBV | | 97 |
| 70) 2-HEXANONE | 8.225 | 58 | 37827 | 5.03 | PPBV | # | 61 |
| 71) ETHYL METHACRYLATE | 8.357 | 69 | 52725 | 4.44 | PPBV | # | 75 |
| 72) TETRACHLOROETHENE | 9.412 | 164 | 36250 | 3.71 | PPBV | | 97 |
| 73) DIBROMOCHLOROMETHANE | 8.183 | 129 | 60742 | 4.01 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.540 | 107 | 54440 | 3.78 | PPBV | | 100 |
| 75) OCTANE | 9.560 | 43 | 77527 | 3.80 | PPBV | # | 77 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.675 | 131 | 40945 | 4.59 | PPBV | # | 86 |
| 78) CHLOROBENZENE | 10.659 | 112 | 79415 | 4.50 | PPBV | | 93 |
| 79) ETHYLBENZENE | 11.566 | 91 | 129412 | 4.44 | PPBV | | 96 |
| 80) M,P-XYLENE | 12.006 | 91 | 203062 | 9.18 | PPBV | # | 63 |
| 81) O-XYLENE | 12.961 | 91 | 104341 | 4.57 | PPBV | | 95 |
| 82) STYRENE | 12.746 | 104 | 73249 | 4.58 | PPBV | | 94 |
| 83) NONANE | 14.087 | 43 | 86741 | 5.02 | PPBV | # | 77 |
| 84) BROMOFORM | 11.830 | 173 | 58536 | 5.15 | PPBV | # | 98 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.987 | 83 | 89012 | 5.01 | PPBV | | 97 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.270 | 75 | 66262 | 5.00 | PPBV | # | 99 |
| 88) ISOPROPYLBENZENE | 14.508 | 120 | 36199 | 4.21 | PPBV | # | 74 |
| 89) BROMOBENZENE | 14.376 | 77 | 78712 | 4.67 | PPBV | | 88 |
| 90) 2-CHLOROTOLUENE | 15.521 | 126 | 32716 | 4.33 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.862 | 120 | 36996 | 4.28 | PPBV | | 100 |
| 92) 4-ETHYLTOLUENE | 16.199 | 105 | 143705 | 4.55 | PPBV | | 98 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.350 | 105 | 121207 | 4.57 | PPBV | # | 94 |
| 94) ALPHA-METHYLSTYRENE | 16.546 | 118 | 59120 | 4.80 | PPBV | | 96 |
| 95) TERT-BUTYLBENZENE | 16.797 | 134 | 28686 | 4.20 | PPBV | | 98 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.804 | 105 | 126670 | 4.51 | PPBV | | 91 |
| 97) BENZYL CHLORIDE | 16.887 | 91 | 86969 | 3.95 | PPBV | # | 94 |
| 98) M-DICHLOROBENZENE | 16.865 | 146 | 83819 | 4.38 | PPBV | | 98 |
| 99) P-DICHLOROBENZENE | 16.945 | 146 | 84289 | 4.36 | PPBV | | 98 |
| 100) O-DICHLOROBENZENE | 17.235 | 146 | 81719 | 4.41 | PPBV | | 98 |
| 101) SEC-BUTYLBENZENE | 17.074 | 134 | 35398 | 4.27 | PPBV | | 89 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.183 | 105 | 124163 | 4.54 | PPBV | # | 95 |
| 103) P-ISOPROPYLTOLUENE | 17.247 | 134 | 40083 | 4.28 | PPBV | | 95 |
| 104) N-BUTYLBENZENE | 17.591 | 134 | 37397 | 4.22 | PPBV | | 69 |
| 105) HEXACHLOROETHANE | 17.772 | 117 | 50861 | 4.65 | PPBV | | 95 |
| 106) HEXACHLOROBUTADIENE | 18.797 | 225 | 72632 | 4.45 | PPBV | | 100 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.495 | 180 | 74810 | 3.96 | PPBV | | 98 |
| 108) NAPHTHALENE | 18.543 | 128 | 195772 | 4.17 | PPBV | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26007.D
Acq On : 15 Sep 2022 1:12 pm
Operator : thomash
Sample : ic1105-5
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 08:06:51 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



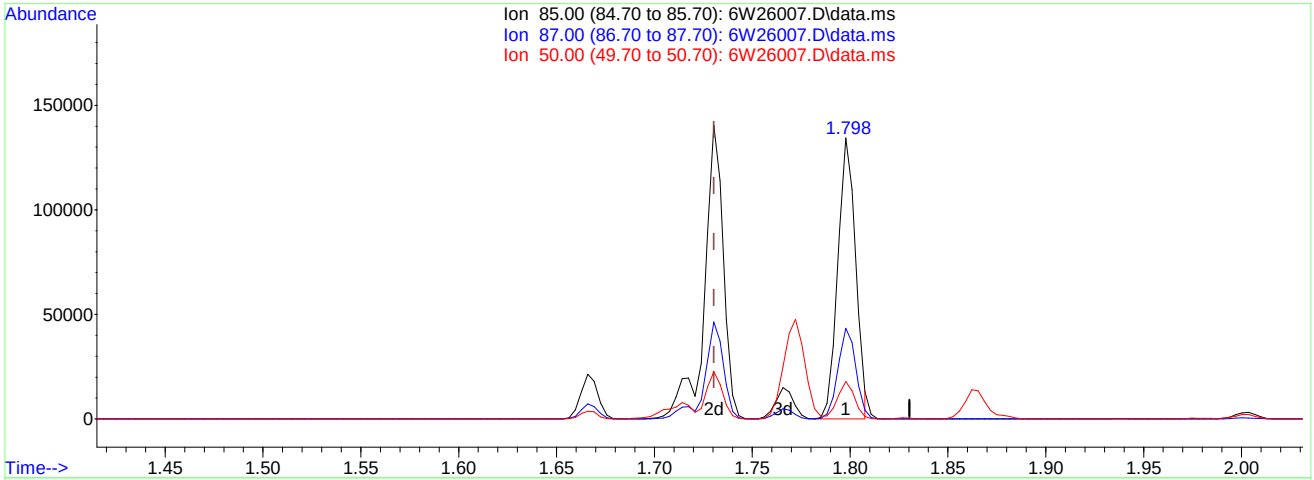
**Sample Number:** V6W1105-IC1105
**Lab FileID:** 6W26007.D
**Injection Time:** 09/15/22 13:12
**Method:** TO-15
**Analyst approved:** 09/21/22 08:23 Thomas Hilbig
**Supervisor approved:** 09/21/22 11:19 Kanya Veerawat

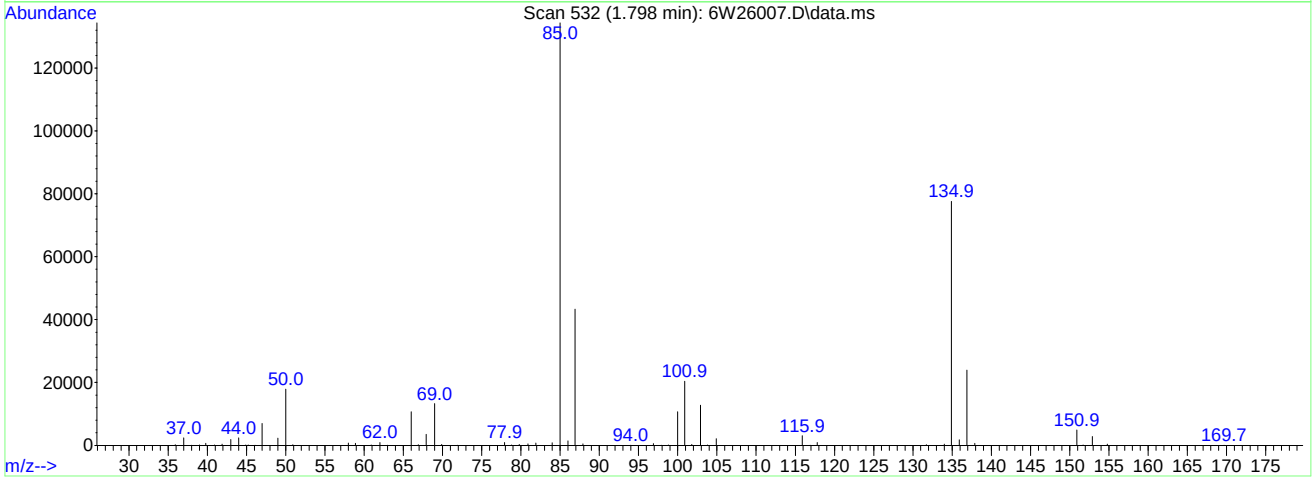
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.73 | Missed peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26007.D
Acq On : 15 Sep 2022 1:12 pm
Operator : thomash
Sample : ic1105-5
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 08:16:37 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26007.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.798min (+0.067) 4.23PPBV

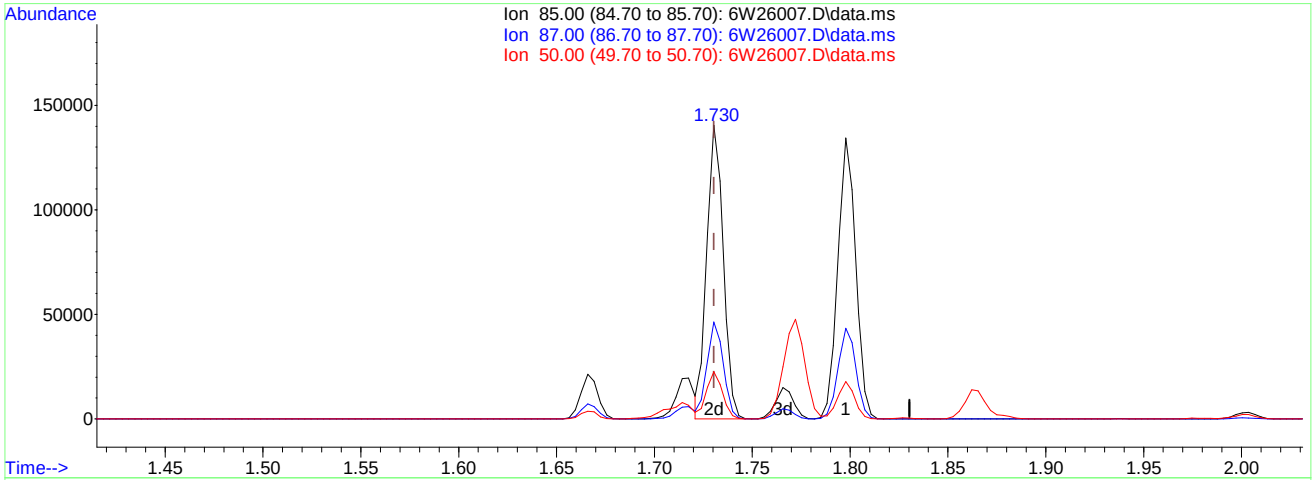
response 84978

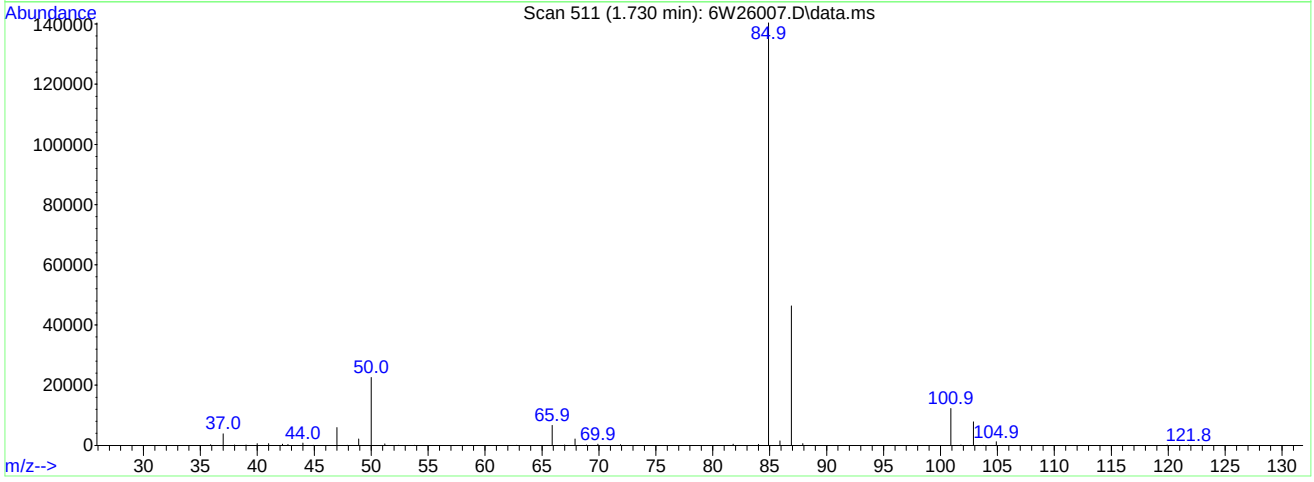
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.25 |
| 50.00 | 9.30 | 10.94 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26007.D
Acq On : 15 Sep 2022 1:12 pm
Operator : thomash
Sample : ic1105-5
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 08:16:37 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26007.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (-0.000) 4.13PPBV m

response 83015

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 33.01 |
| 50.00 | 9.30 | 11.20# |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/21/22 13:59

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26008.D
Acq On : 15 Sep 2022 1:46 pm
Operator : thomash
Sample : icc1105-10
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 12:42:40 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 09:57:49 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.335 | 128 | 40665 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.734 | 114 | 227187 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.589 | 117 | 165536 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.026 | 95 | 121965 | 10.08 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 34676 | 10.56 | PPBV | # | 78 |
| 4) CHLORODIFLUOROMETHANE | 1.705 | 67 | 16445 | 10.50 | PPBV | | 98 |
| 5) CHLOROTRIFLUOROETHENE | 1.718 | 116 | 68459 | 10.39 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.730 | 85 | 167538m | 9.23 | PPBV | | |
| 7) PROPYLENE | 1.714 | 41 | 48333 | 10.18 | PPBV | | 95 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 158942 | 10.10 | PPBV | # | 87 |
| 9) FREON 114 | 1.798 | 85 | 172248 | 9.99 | PPBV | | 91 |
| 10) CHLOROMETHANE | 1.772 | 52 | 22579 | 9.67 | PPBV | | 96 |
| 11) VINYL CHLORIDE | 1.827 | 62 | 72586 | 10.04 | PPBV | | 99 |
| 12) 1,3-BUTADIENE | 1.862 | 54 | 57122 | 9.62 | PPBV | # | 69 |
| 13) N-BUTANE | 1.878 | 43 | 118930 | 9.80 | PPBV | # | 91 |
| 14) BROMOMETHANE | 1.933 | 94 | 57868 | 9.83 | PPBV | | 99 |
| 15) CHLOROETHANE | 1.978 | 64 | 37286 | 9.73 | PPBV | | 96 |
| 16) DICHLOROFLUOROMETHANE | 2.001 | 67 | 156486 | 10.15 | PPBV | # | 95 |
| 17) ACETONITRILE | 2.065 | 41 | 76405 | 9.84 | PPBV | | 96 |
| 18) ACROLEIN | 2.100 | 56 | 35343 | 10.08 | PPBV | | 99 |
| 19) FREON 123 | 2.113 | 83 | 152174 | 9.99 | PPBV | | 97 |
| 20) FREON 123A | 2.129 | 117 | 73922 | 9.69 | PPBV | # | 58 |
| 21) TRICHLOROFLUOROMETHANE | 2.190 | 101 | 159890 | 9.92 | PPBV | | 99 |
| 22) ISOPROPYL ALCOHOL | 2.206 | 45 | 158925 | 9.98 | PPBV | # | 96 |
| 23) ACETONE | 2.136 | 58 | 36288 | 9.70 | PPBV | # | 27 |
| 24) PENTANE | 2.296 | 42 | 83528 | 9.85 | PPBV | # | 94 |
| 25) IODOMETHANE | 2.354 | 142 | 146931 | 10.04 | PPBV | # | 84 |
| 26) 1,1-DICHLOROETHYLENE | 2.383 | 96 | 61153 | 10.01 | PPBV | # | 52 |
| 27) CARBON DISULFIDE | 2.518 | 76 | 203737 | 10.02 | PPBV | # | 88 |
| 28) ETHANOL | 2.007 | 45 | 37157 | 8.95 | PPBV | # | 96 |
| 29) BROMOETHENE | 2.071 | 106 | 56201 | 10.03 | PPBV | # | 96 |
| 30) ACRYLONITRILE | 2.271 | 52 | 55993 | 10.08 | PPBV | | 97 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 60789 | 9.12 | PPBV | # | 60 |
| 32) 3-CHLOROPROPENE | 2.464 | 76 | 32195 | 10.30 | PPBV | # | 7 |
| 33) FREON 113 | 2.518 | 151 | 96956 | 9.97 | PPBV | | 84 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 65724 | 9.83 | PPBV | # | 76 |
| 35) TERTIARY BUTYL ALCOHOL | 2.396 | 59 | 144518 | 10.18 | PPBV | # | 90 |
| 36) METHYL TERTIARY BUTYL ... | 2.888 | 73 | 178164 | 9.98 | PPBV | # | 92 |
| 37) TETRAHYDROFURAN | 3.650 | 72 | 33149 | 10.24 | PPBV | # | 50 |
| 38) HEXANE | 3.390 | 57 | 123858 | 9.93 | PPBV | # | 75 |
| 39) VINYL ACETATE | 2.930 | 86 | 17706 | 9.87 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.849 | 63 | 131604 | 10.18 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.036 | 72 | 34020 | 9.93 | PPBV | # | 5 |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 67189 | 10.00 | PPBV | # | 76 |
| 43) DIISOPROPYL ETHER | 3.399 | 59 | 36133 | 9.97 | PPBV | # | 45 |
| 44) ETHYL ACETATE | 3.406 | 61 | 26634 | 10.36 | PPBV | # | 31 |
| 45) METHYL ACRYLATE | 3.390 | 55 | 162121 | 10.02 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.418 | 83 | 150772 | 9.97 | PPBV | # | 92 |
| 47) 2,4-DIMETHYLPENTANE | 3.952 | 57 | 143306 | 9.95 | PPBV | # | 93 |
| 48) 1,1,1-TRICHLOROETHANE | 4.042 | 97 | 139639 | 10.05 | PPBV | # | 91 |
| 49) CARBON TETRACHLORIDE | 4.499 | 117 | 133695 | 10.19 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.869 | 62 | 108188 | 10.20 | PPBV | # | 95 |
| 51) BENZENE | 4.380 | 78 | 210849 | 10.05 | PPBV | | 83 |
| 53) CYCLOHEXANE | 4.598 | 84 | 89475 | 9.80 | PPBV | # | 80 |
| 54) 2,3-DIMETHYLPENTANE | 4.875 | 71 | 48204 | 9.65 | PPBV | # | 63 |
| 55) TRICHLOROETHENE | 5.348 | 95 | 91388 | 9.64 | PPBV | | 91 |
| 56) 1,2-DICHLOROPROPANE | 5.100 | 63 | 89662 | 10.01 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.058 | 174 | 78532 | 9.74 | PPBV | # | 84 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26008.D
Acq On : 15 Sep 2022 1:46 pm
Operator : thomash
Sample : icc1105-10
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 12:42:40 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 09:57:49 2022
Response via : Initial Calibration

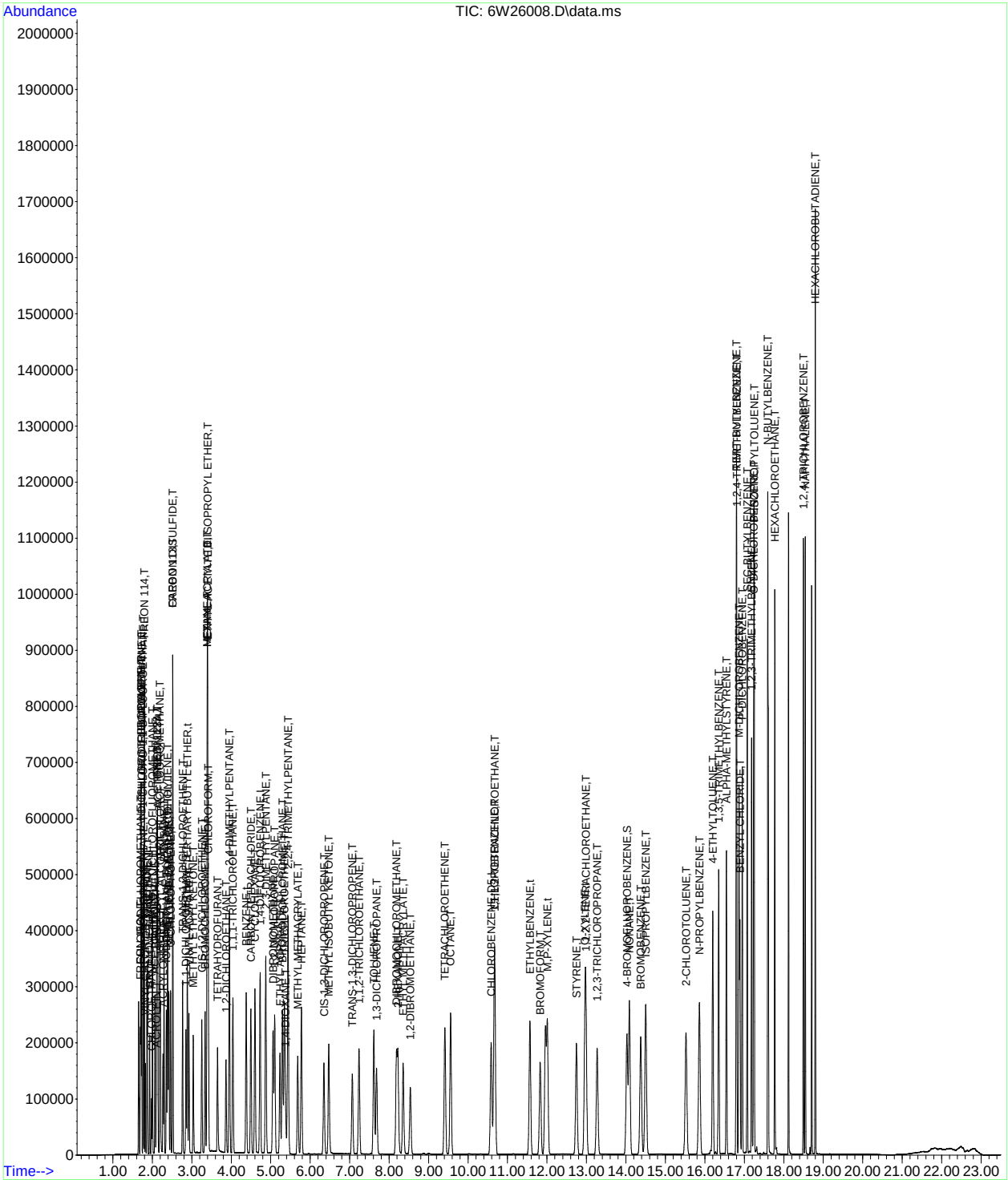
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.235 | 55 | 196563 | 10.24 | PPBV | # | 97 |
| 59) BROMODICHLOROMETHANE | 5.296 | 83 | 167533 | 10.07 | PPBV | | 97 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.441 | 57 | 382226 | 9.74 | PPBV | # | 99 |
| 61) 1,4-DIOXANE | 5.373 | 88 | 48147 | 10.22 | PPBV | # | 73 |
| 62) HEPTANE | 5.775 | 43 | 118808 | 9.31 | PPBV | # | 80 |
| 63) METHYL METHACRYLATE | 5.685 | 69 | 69320 | 9.60 | PPBV | # | 61 |
| 64) METHYL ISOBUTYL KETONE | 6.470 | 58 | 61318 | 10.73 | PPBV | # | 64 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.351 | 75 | 103825 | 10.23 | PPBV | # | 75 |
| 66) TOLUENE | 7.611 | 91 | 205817 | 10.23 | PPBV | | 100 |
| 67) 1,3-DICHLOROPROPANE | 7.682 | 76 | 112477 | 10.13 | PPBV | # | 97 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.068 | 75 | 94182 | 10.02 | PPBV | # | 78 |
| 69) 1,1,2-TRICHLOROETHANE | 7.241 | 83 | 68269 | 10.23 | PPBV | | 95 |
| 70) 2-HEXANONE | 8.225 | 58 | 81320 | 10.96 | PPBV | # | 64 |
| 71) ETHYL METHACRYLATE | 8.357 | 69 | 113583 | 10.87 | PPBV | # | 75 |
| 72) TETRACHLOROETHENE | 9.412 | 164 | 73653 | 9.31 | PPBV | | 97 |
| 73) DIBROMOCHLOROMETHANE | 8.184 | 129 | 125180 | 10.13 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.537 | 107 | 113178 | 10.11 | PPBV | | 99 |
| 75) OCTANE | 9.556 | 43 | 164358 | 10.50 | PPBV | # | 78 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.679 | 131 | 85631 | 10.19 | PPBV | # | 87 |
| 78) CHLOROBENZENE | 10.666 | 112 | 165226 | 10.07 | PPBV | | 94 |
| 79) ETHYLBENZENE | 11.569 | 91 | 275724 | 10.36 | PPBV | | 96 |
| 80) M,P-XYLENE | 12.007 | 91 | 432339 | 21.31 | PPBV | # | 66 |
| 81) O-XYLENE | 12.961 | 91 | 218697 | 10.48 | PPBV | | 93 |
| 82) STYRENE | 12.749 | 104 | 157294 | 10.61 | PPBV | | 94 |
| 83) NONANE | 14.087 | 43 | 180840 | 10.14 | PPBV | # | 76 |
| 84) BROMOFORM | 11.826 | 173 | 123026 | 10.08 | PPBV | | 98 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.990 | 83 | 184572 | 10.02 | PPBV | | 97 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.270 | 75 | 136079 | 10.05 | PPBV | | 100 |
| 88) ISOPROPYLBENZENE | 14.502 | 120 | 77532 | 10.61 | PPBV | # | 75 |
| 89) BROMOBENZENE | 14.376 | 77 | 166340 | 10.12 | PPBV | | 88 |
| 90) 2-CHLOROTOLUENE | 15.524 | 126 | 70399 | 10.56 | PPBV | | 100 |
| 91) N-PROPYLBENZENE | 15.862 | 120 | 79214 | 10.80 | PPBV | | 97 |
| 92) 4-ETHYLTOLUENE | 16.203 | 105 | 308706 | 10.74 | PPBV | | 97 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.350 | 105 | 257296 | 10.62 | PPBV | # | 95 |
| 94) ALPHA-METHYLSTYRENE | 16.547 | 118 | 127449 | 10.50 | PPBV | | 97 |
| 95) TERT-BUTYLBENZENE | 16.797 | 134 | 61238 | 10.39 | PPBV | | 96 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.807 | 105 | 279853 | 10.80 | PPBV | | 89 |
| 97) BENZYL CHLORIDE | 16.891 | 91 | 205800 | 10.87 | PPBV | # | 93 |
| 98) M-DICHLOROBENZENE | 16.865 | 146 | 180074 | 10.32 | PPBV | | 99 |
| 99) P-DICHLOROBENZENE | 16.945 | 146 | 181949 | 10.11 | PPBV | | 99 |
| 100) O-DICHLOROBENZENE | 17.238 | 146 | 177685 | 10.23 | PPBV | | 98 |
| 101) SEC-BUTYLBENZENE | 17.074 | 134 | 77358 | 10.57 | PPBV | | 90 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.183 | 105 | 268523 | 10.62 | PPBV | # | 96 |
| 103) P-ISOPROPYLTOLUENE | 17.251 | 134 | 88154 | 10.72 | PPBV | | 99 |
| 104) N-BUTYLBENZENE | 17.595 | 134 | 85286 | 11.03 | PPBV | | 75 |
| 105) HEXACHLOROETHANE | 17.772 | 117 | 112797 | 10.05 | PPBV | | 94 |
| 106) HEXACHLOROBUTADIENE | 18.800 | 225 | 158684 | 9.60 | PPBV | | 100 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.498 | 180 | 170756 | 9.92 | PPBV | | 98 |
| 108) NAPHTHALENE | 18.546 | 128 | 443020 | 11.19 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26008.D
Acq On : 15 Sep 2022 1:46 pm
Operator : thomash
Sample : icc1105-10
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 12:42:40 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 09:57:49 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



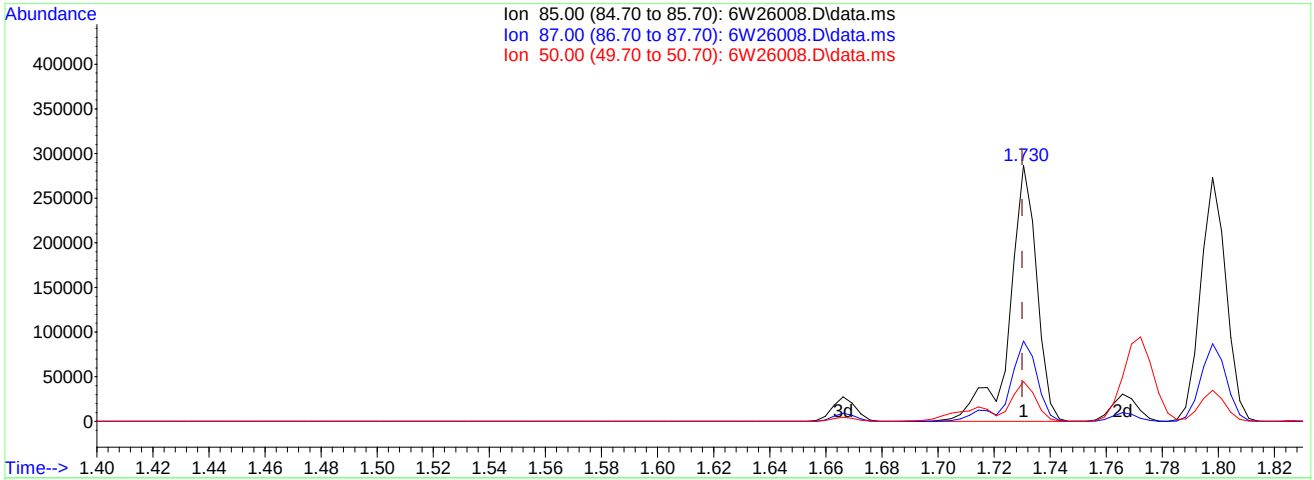
**Sample Number:** V6W1105-ICC1105 **Method:** TO-15
**Lab FileID:** 6W26008.D **Analyst approved:** 09/21/22 12:54 Thomas Hilbig
**Injection Time:** 09/15/22 13:46 **Supervisor approved:** 09/21/22 13:59 Kanya Veerawat

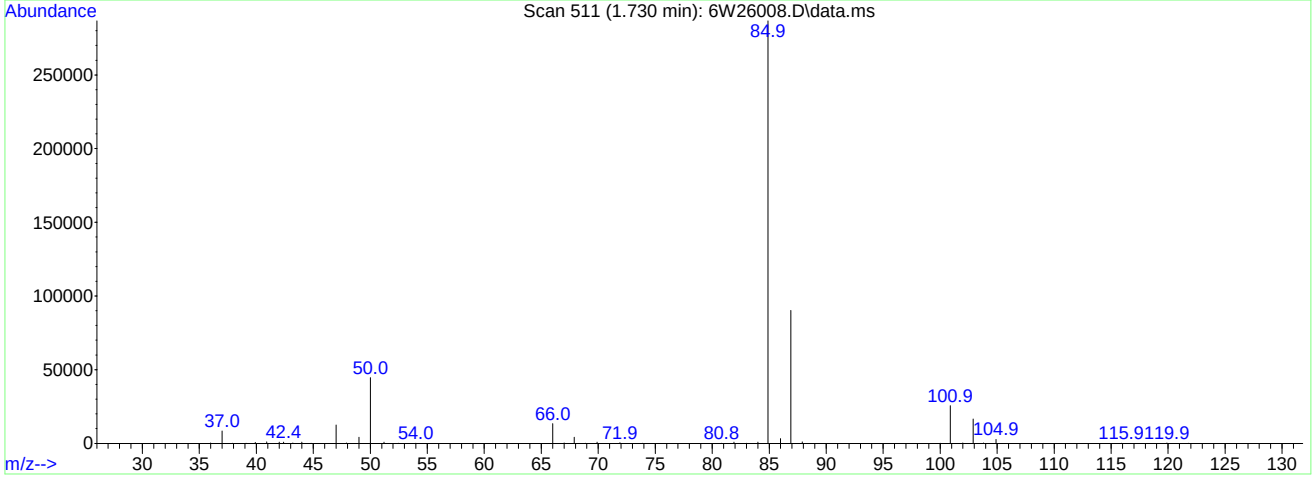
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.73 | Overlapping peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26008.D
Acq On : 15 Sep 2022 1:46 pm
Operator : thomash
Sample : icc1105-10
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 15:18:20 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 09:57:49 2022
Response via : Initial Calibration




TIC: 6W26008.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (+0.000) 10.63PPBV

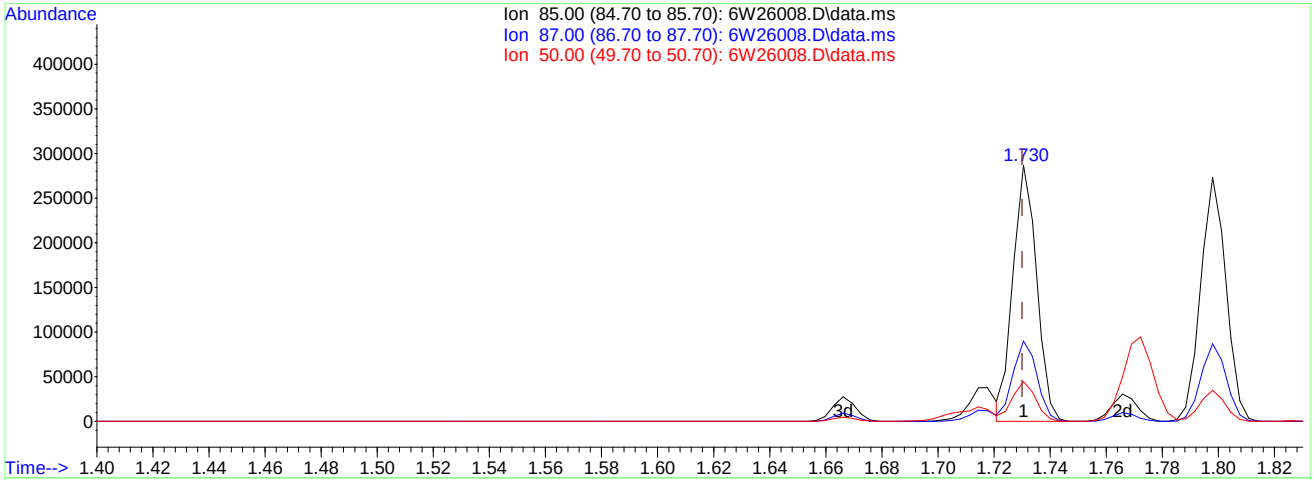
response 192813

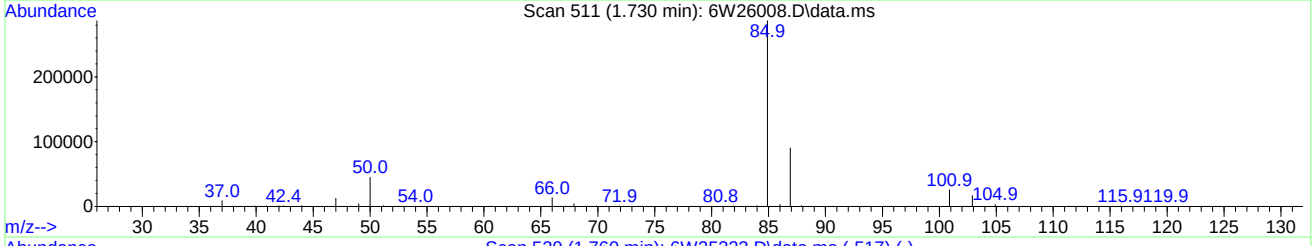
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.30 |
| 50.00 | 9.30 | 21.23# |
| 0.00 | 0.00 | 0.00 |

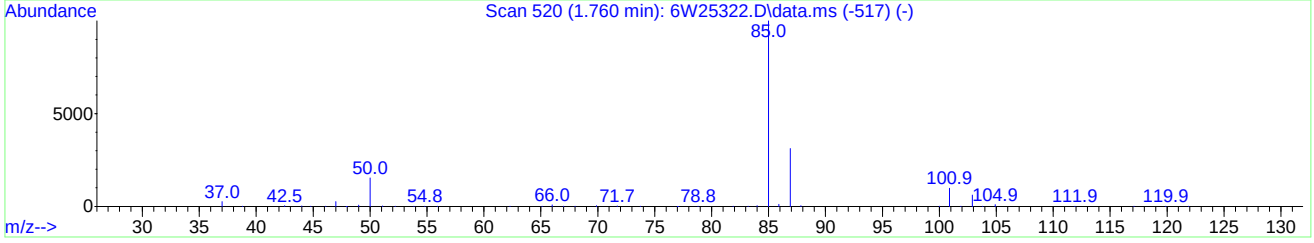
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26008.D
Acq On : 15 Sep 2022 1:46 pm
Operator : thomash
Sample : icc1105-10
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 15:18:20 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 09:57:49 2022
Response via : Initial Calibration




TIC: 6W26008.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (+0.000) 9.23PPBV m

response 167538

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 37.17 |
| 50.00 | 9.30 | 24.43# |
| 0.00 | 0.00 | 0.00 |







6W26008.D edits: DICHLORODIFLUOROMETHANE

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/21/22 11:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26009.D
Acq On : 15 Sep 2022 2:22 pm
Operator : thomash
Sample : ic1105-20
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 08:07:11 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 43498 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.733 | 114 | 234032 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 175266 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.023 | 95 | 131045 | 10.59 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 72765 | 18.60 | PPBV | # | 79 |
| 4) CHLORODIFLUOROMETHANE | 1.708 | 67 | 34075 | 19.28 | PPBV | | 96 |
| 5) CHLOROTRIFLUOROETHENE | 1.718 | 116 | 143324 | 17.06 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.730 | 85 | 348832m | 16.71 | PPBV | | |
| 7) PROPYLENE | 1.714 | 41 | 101920 | 17.65 | PPBV | | 95 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 328889 | 15.03 | PPBV | # | 87 |
| 9) FREON 114 | 1.798 | 85 | 358994 | 15.99 | PPBV | | 91 |
| 10) CHLOROMETHANE | 1.772 | 52 | 45597 | 17.26 | PPBV | | 93 |
| 11) VINYL CHLORIDE | 1.830 | 62 | 149865 | 15.49 | PPBV | | 98 |
| 12) 1,3-BUTADIENE | 1.865 | 54 | 119593 | 16.82 | PPBV | # | 71 |
| 13) N-BUTANE | 1.878 | 43 | 246013 | 15.50 | PPBV | # | 91 |
| 14) BROMOMETHANE | 1.933 | 94 | 119869 | 15.45 | PPBV | | 100 |
| 15) CHLOROETHANE | 1.978 | 64 | 76364 | 14.71 | PPBV | | 96 |
| 16) DICHLOROFLUOROMETHANE | 2.004 | 67 | 324278 | 16.23 | PPBV | # | 96 |
| 17) ACETONITRILE | 2.065 | 41 | 155869 | 16.70 | PPBV | | 97 |
| 18) ACROLEIN | 2.100 | 56 | 75029 | 24.08 | PPBV | | 99 |
| 19) FREON 123 | 2.116 | 83 | 316207 | 16.40 | PPBV | | 98 |
| 20) FREON 123A | 2.132 | 117 | 155897 | 14.75 | PPBV | # | 61 |
| 21) TRICHLOROFLUOROMETHANE | 2.190 | 101 | 334178 | 15.12 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.206 | 45 | 332406 | 16.55 | PPBV | # | 97 |
| 23) ACETONE | 2.136 | 58 | 76064 | 13.89 | PPBV | # | 31 |
| 24) PENTANE | 2.300 | 42 | 172095 | 16.55 | PPBV | # | 94 |
| 25) IODOMETHANE | 2.357 | 142 | 306090 | 15.19 | PPBV | # | 84 |
| 26) 1,1-DICHLOROETHYLENE | 2.383 | 96 | 127827 | 15.79 | PPBV | # | 52 |
| 27) CARBON DISULFIDE | 2.521 | 76 | 428571 | 16.90 | PPBV | # | 88 |
| 28) ETHANOL | 2.004 | 45 | 77162 | 17.08 | PPBV | # | 97 |
| 29) BROMOETHENE | 2.071 | 106 | 116828 | 15.55 | PPBV | # | 97 |
| 30) ACRYLONITRILE | 2.271 | 52 | 115330 | 16.43 | PPBV | | 96 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 123836 | 16.14 | PPBV | # | 60 |
| 32) 3-CHLOROPROPENE | 2.463 | 76 | 67359 | 15.16 | PPBV | # | 8 |
| 33) FREON 113 | 2.518 | 151 | 204644 | 15.50 | PPBV | | 86 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 137905 | 15.18 | PPBV | # | 78 |
| 35) TERTIARY BUTYL ALCOHOL | 2.393 | 59 | 308192 | 13.85 | PPBV | # | 88 |
| 36) METHYL TERTIARY BUTYL ... | 2.888 | 73 | 375536 | 14.30 | PPBV | # | 93 |
| 37) TETRAHYDROFURAN | 3.650 | 72 | 69267 | 21.75 | PPBV | # | 51 |
| 38) HEXANE | 3.393 | 57 | 259900 | 20.35 | PPBV | # | 76 |
| 39) VINYL ACETATE | 2.930 | 86 | 38384 | 17.30 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.853 | 63 | 269664 | 15.58 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.036 | 72 | 73144 | 16.88 | PPBV | # | 13 |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 139746 | 18.95 | PPBV | # | 76 |
| 43) DIISOPROPYL ETHER | 3.399 | 59 | 76901 | 21.09 | PPBV | # | 48 |
| 44) ETHYL ACETATE | 3.406 | 61 | 56597 | 22.84 | PPBV | # | 35 |
| 45) METHYL ACRYLATE | 3.389 | 55 | 343698 | 21.89 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.422 | 83 | 314797 | 20.21 | PPBV | # | 92 |
| 47) 2,4-DIMETHYLPENTANE | 3.955 | 57 | 297075 | 20.41 | PPBV | # | 94 |
| 48) 1,1,1-TRICHLOROETHANE | 4.042 | 97 | 290920 | 19.37 | PPBV | # | 93 |
| 49) CARBON TETRACHLORIDE | 4.499 | 117 | 277702 | 18.49 | PPBV | | 100 |
| 50) 1,2-DICHLOROETHANE | 3.869 | 62 | 222951 | 19.81 | PPBV | # | 96 |
| 51) BENZENE | 4.380 | 78 | 436220 | 19.33 | PPBV | | 83 |
| 53) CYCLOHEXANE | 4.602 | 84 | 186444 | 19.26 | PPBV | # | 81 |
| 54) 2,3-DIMETHYLPENTANE | 4.875 | 71 | 99766 | 20.10 | PPBV | # | 65 |
| 55) TRICHLOROETHENE | 5.351 | 95 | 189993 | 19.00 | PPBV | | 91 |
| 56) 1,2-DICHLOROPROPANE | 5.100 | 63 | 184125 | 21.10 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.058 | 174 | 162065 | 16.94 | PPBV | # | 84 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26009.D
Acq On : 15 Sep 2022 2:22 pm
Operator : thomash
Sample : ic1105-20
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 08:07:11 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration

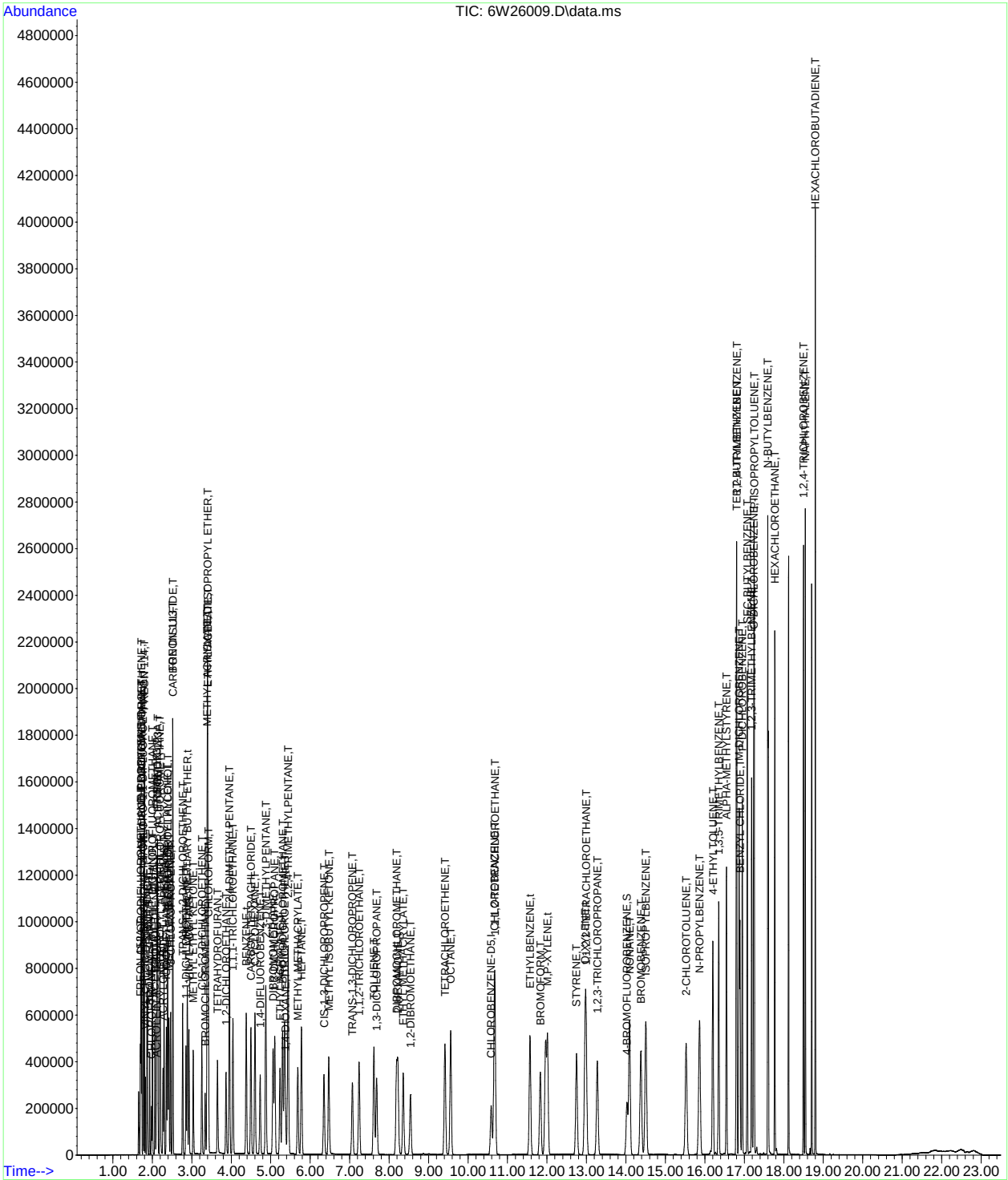
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 58) | ETHYL ACRYLATE | 5.235 | 55 | 414660 | 22.38 | PPBV | # | 96 |
| 59) | BROMODICHLOROMETHANE | 5.299 | 83 | 347773 | 20.86 | PPBV | | 97 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.441 | 57 | 827472 | 20.51 | PPBV | # | 99 |
| 61) | 1,4-DIOXANE | 5.373 | 88 | 98724 | 21.28 | PPBV | # | 73 |
| 62) | HEPTANE | 5.778 | 43 | 250621 | 16.71 | PPBV | # | 80 |
| 63) | METHYL METHACRYLATE | 5.685 | 69 | 148195 | 18.71 | PPBV | # | 61 |
| 64) | METHYL ISOBUTYL KETONE | 6.473 | 58 | 129398 | 18.64 | PPBV | # | 64 |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.351 | 75 | 222182 | 17.52 | PPBV | # | 75 |
| 66) | TOLUENE | 7.614 | 91 | 440026 | 16.12 | PPBV | | 99 |
| 67) | 1,3-DICHLOROPROPANE | 7.685 | 76 | 238461 | 17.10 | PPBV | # | 98 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.068 | 75 | 207764 | 17.38 | PPBV | # | 79 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.241 | 83 | 142711 | 17.39 | PPBV | | 95 |
| 70) | 2-HEXANONE | 8.222 | 58 | 174085 | 22.79 | PPBV | # | 64 |
| 71) | ETHYL METHACRYLATE | 8.357 | 69 | 246273 | 20.41 | PPBV | # | 75 |
| 72) | TETRACHLOROETHENE | 9.415 | 164 | 157151 | 15.84 | PPBV | | 97 |
| 73) | DIBROMOCHLOROMETHANE | 8.190 | 129 | 265514 | 17.24 | PPBV | | 99 |
| 74) | 1,2-DIBROMOETHANE | 8.540 | 107 | 242540 | 16.55 | PPBV | | 99 |
| 75) | OCTANE | 9.560 | 43 | 352758 | 17.01 | PPBV | # | 78 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.682 | 131 | 184206 | 19.20 | PPBV | | 89 |
| 78) | CHLOROBENZENE | 10.669 | 112 | 351776 | 18.54 | PPBV | | 94 |
| 79) | ETHYLBENZENE | 11.569 | 91 | 600595 | 19.13 | PPBV | | 95 |
| 80) | M,P-XYLENE | 12.010 | 91 | 934432 | 39.29 | PPBV | # | 65 |
| 81) | O-XYLENE | 12.965 | 91 | 477346 | 19.44 | PPBV | | 93 |
| 82) | STYRENE | 12.746 | 104 | 347171 | 20.19 | PPBV | # | 94 |
| 83) | NONANE | 14.093 | 43 | 387970 | 20.87 | PPBV | # | 76 |
| 84) | BROMOFORM | 11.830 | 173 | 268223 | 21.94 | PPBV | | 99 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 12.994 | 83 | 394709 | 20.66 | PPBV | | 97 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.277 | 75 | 290570 | 20.36 | PPBV | | 100 |
| 88) | ISOPROPYLBENZENE | 14.502 | 120 | 168854 | 18.26 | PPBV | # | 76 |
| 89) | BROMOBENZENE | 14.383 | 77 | 357009 | 19.69 | PPBV | | 89 |
| 90) | 2-CHLOROTOLUENE | 15.527 | 126 | 153662 | 18.92 | PPBV | | 99 |
| 91) | N-PROPYLBENZENE | 15.865 | 120 | 174050 | 18.73 | PPBV | | 98 |
| 92) | 4-ETHYLTOLUENE | 16.206 | 105 | 675144 | 19.87 | PPBV | | 97 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.350 | 105 | 571648 | 20.05 | PPBV | # | 95 |
| 94) | ALPHA-METHYLSTYRENE | 16.547 | 118 | 286733 | 21.64 | PPBV | | 96 |
| 95) | TERT-BUTYLBENZENE | 16.801 | 134 | 136761 | 18.62 | PPBV | | 97 |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.807 | 105 | 609832 | 20.20 | PPBV | | 91 |
| 97) | BENZYL CHLORIDE | 16.891 | 91 | 489404 | 20.67 | PPBV | # | 94 |
| 98) | M-DICHLOROBENZENE | 16.868 | 146 | 397901 | 19.32 | PPBV | | 98 |
| 99) | P-DICHLOROBENZENE | 16.948 | 146 | 400358 | 19.23 | PPBV | | 97 |
| 100) | O-DICHLOROBENZENE | 17.238 | 146 | 396786 | 19.90 | PPBV | | 98 |
| 101) | SEC-BUTYLBENZENE | 17.074 | 134 | 175494 | 19.68 | PPBV | | 92 |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.186 | 105 | 608548 | 20.66 | PPBV | # | 96 |
| 103) | P-ISOPROPYLTOLUENE | 17.251 | 134 | 200068 | 19.86 | PPBV | | 98 |
| 104) | N-BUTYLBENZENE | 17.595 | 134 | 191597 | 20.08 | PPBV | | 75 |
| 105) | HEXACHLOROETHANE | 17.772 | 117 | 257080 | 21.83 | PPBV | | 94 |
| 106) | HEXACHLOROBUTADIENE | 18.800 | 225 | 368718 | 20.98 | PPBV | | 99 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.498 | 180 | 403611 | 19.87 | PPBV | | 99 |
| 108) | NAPHTHALENE | 18.546 | 128 | 1029323 | 20.37 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26009.D
Acq On : 15 Sep 2022 2:22 pm
Operator : thomash
Sample : ic1105-20
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 08:07:11 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V6W1105-IC1105
**Lab FileID:** 6W26009.D
**Injection Time:** 09/15/22 14:22

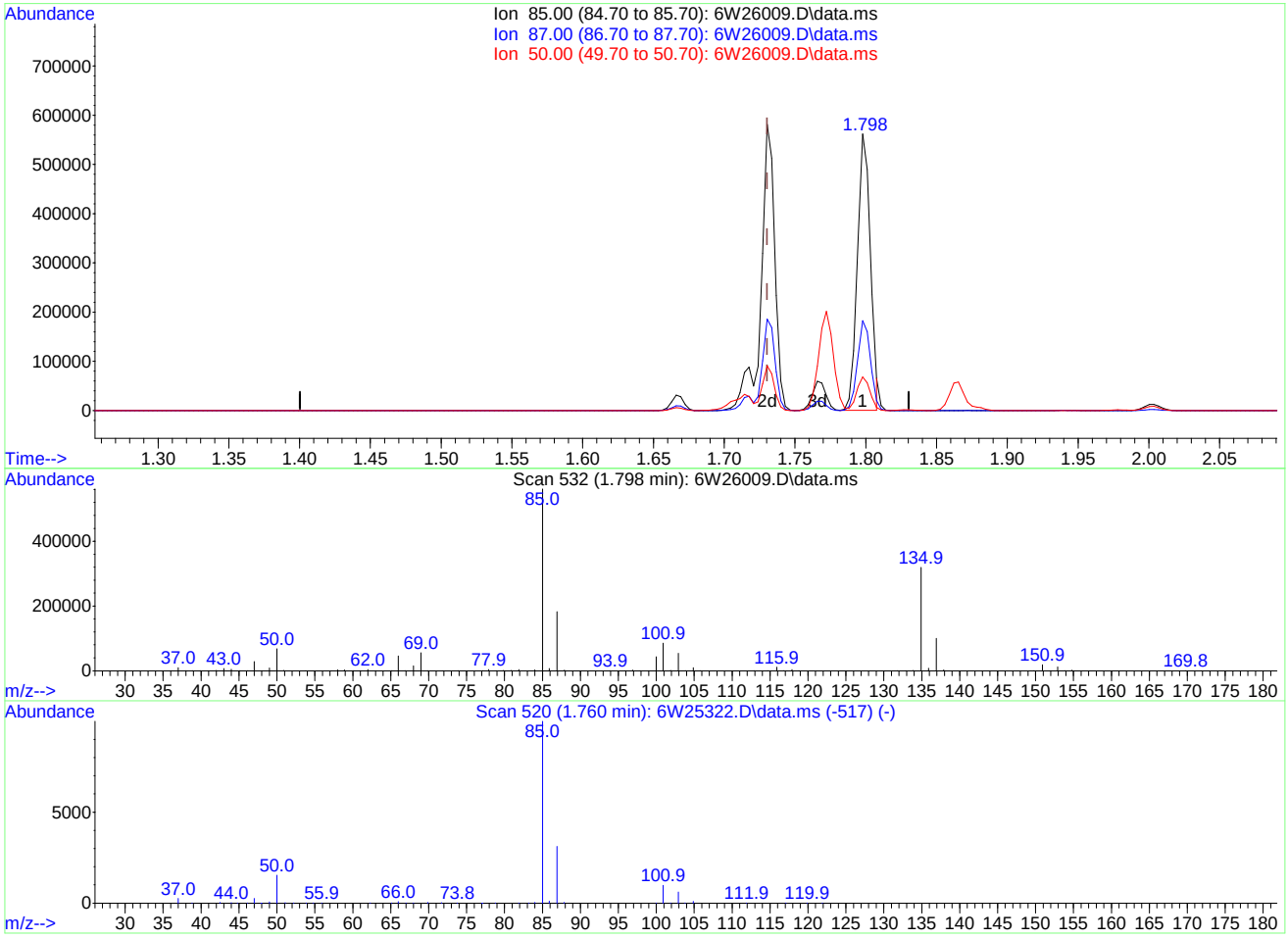
**Method:** TO-15
**Analyst approved:** 09/21/22 08:23 Thomas Hilbig
**Supervisor approved:** 09/21/22 11:19 Kanya Veerawat

| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.73 | Missed peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26009.D
Acq On : 15 Sep 2022 2:22 pm
Operator : thomash
Sample : ic1105-20
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 08:16:28 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26009.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.798min (+0.067) 17.06PPBV

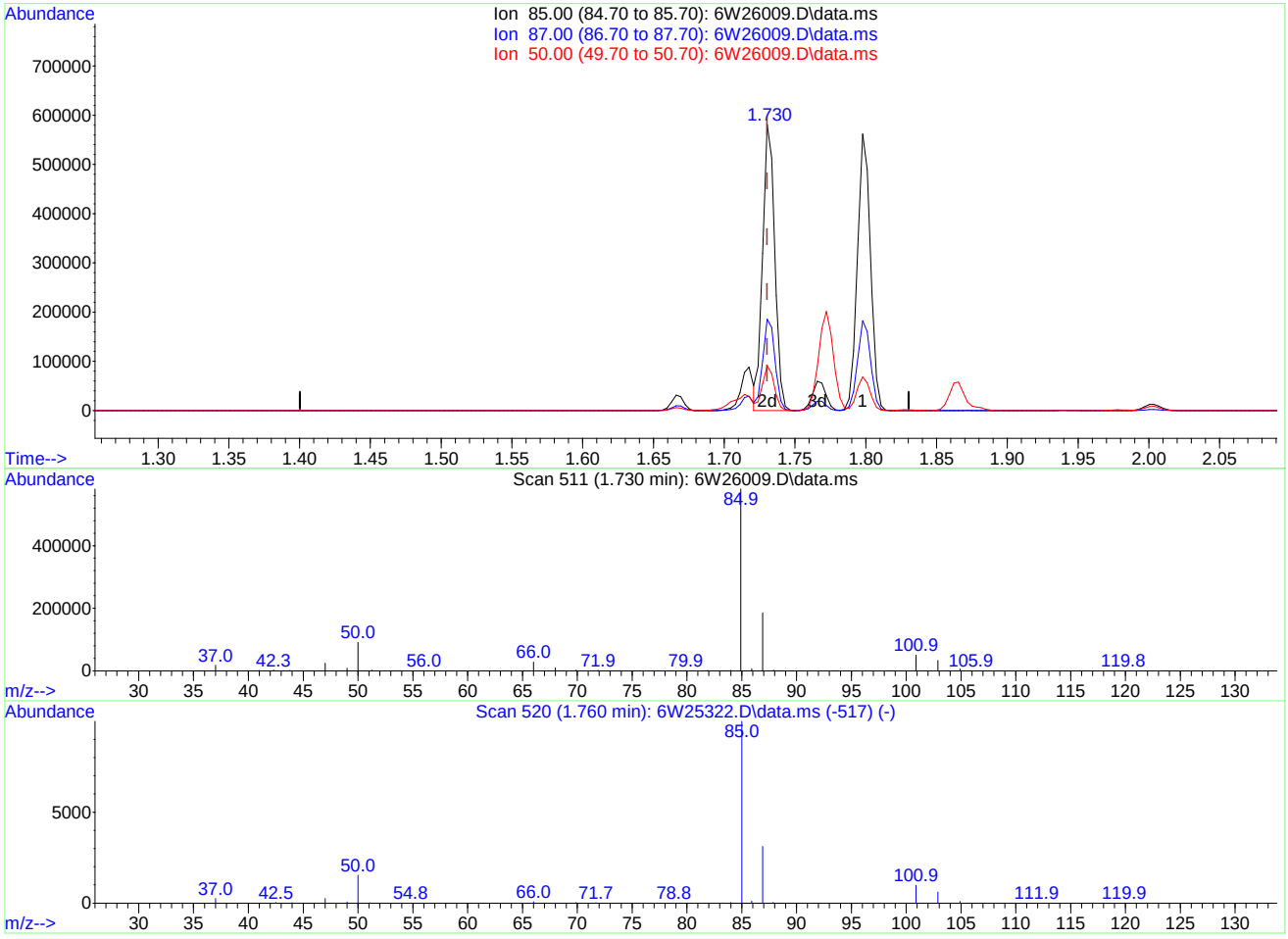
response 356176

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.43 |
| 50.00 | 9.30 | 10.72 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26009.D
Acq On : 15 Sep 2022 2:22 pm
Operator : thomash
Sample : ic1105-20
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 08:16:28 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26009.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (-0.000) 16.71PPBV m

response 348832

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 33.11 |
| 50.00 | 9.30 | 10.94 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/21/22 11:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26010.D
Acq On : 15 Sep 2022 3:01 pm
Operator : thomash
Sample : ic1105-40
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 08:07:23 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 44539 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.733 | 114 | 238139 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.588 | 117 | 181960 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.026 | 95 | 139065 | 10.83 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 150220 | 37.50 | PPBV | # | 79 |
| 4) CHLORODIFLUOROMETHANE | 1.704 | 67 | 71673 | 39.61 | PPBV | | 97 |
| 5) CHLOROTRIFLUOROETHENE | 1.717 | 116 | 301751 | 35.09 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.730 | 85 | 706080m | 33.03 | PPBV | | |
| 7) PROPYLENE | 1.714 | 41 | 216223 | 36.57 | PPBV | | 95 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 682497 | 30.47 | PPBV | # | 88 |
| 9) FREON 114 | 1.798 | 85 | 765949 | 33.33 | PPBV | | 91 |
| 10) CHLOROMETHANE | 1.772 | 52 | 93948 | 34.73 | PPBV | | 92 |
| 11) VINYL CHLORIDE | 1.827 | 62 | 310669 | 31.36 | PPBV | | 98 |
| 12) 1,3-BUTADIENE | 1.862 | 54 | 251038 | 34.49 | PPBV | # | 72 |
| 13) N-BUTANE | 1.878 | 43 | 512213 | 31.52 | PPBV | # | 91 |
| 14) BROMOMETHANE | 1.933 | 94 | 249997 | 31.47 | PPBV | | 100 |
| 15) CHLOROETHANE | 1.978 | 64 | 160436 | 30.18 | PPBV | | 97 |
| 16) DICHLOROFLUOROMETHANE | 2.000 | 67 | 679292 | 33.20 | PPBV | # | 96 |
| 17) ACETONITRILE | 2.065 | 41 | 323074 | 33.80 | PPBV | | 97 |
| 18) ACROLEIN | 2.100 | 56 | 155826 | 48.84 | PPBV | | 100 |
| 19) FREON 123 | 2.116 | 83 | 673559 | 34.12 | PPBV | | 98 |
| 20) FREON 123A | 2.129 | 117 | 330882 | 30.58 | PPBV | # | 60 |
| 21) TRICHLOROFLUOROMETHANE | 2.190 | 101 | 709140 | 31.33 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.203 | 45 | 670672 | 32.61 | PPBV | # | 98 |
| 23) ACETONE | 2.135 | 58 | 161226 | 28.75 | PPBV | # | 33 |
| 24) PENTANE | 2.296 | 42 | 359285 | 33.75 | PPBV | # | 95 |
| 25) IODOMETHANE | 2.354 | 142 | 653936 | 31.69 | PPBV | # | 84 |
| 26) 1,1-DICHLOROETHYLENE | 2.383 | 96 | 269337 | 32.50 | PPBV | # | 52 |
| 27) CARBON DISULFIDE | 2.518 | 76 | 921249 | 35.48 | PPBV | # | 90 |
| 28) ETHANOL | 2.003 | 45 | 154891 | 33.48 | PPBV | # | 96 |
| 29) BROMOETHENE | 2.071 | 106 | 249838 | 32.47 | PPBV | # | 97 |
| 30) ACRYLONITRILE | 2.270 | 52 | 242642 | 33.75 | PPBV | | 96 |
| 31) METHYLENE CHLORIDE | 2.418 | 84 | 259737 | 33.06 | PPBV | # | 61 |
| 32) 3-CHLOROPROPENE | 2.460 | 76 | 141269 | 31.05 | PPBV | # | 7 |
| 33) FREON 113 | 2.518 | 151 | 439367 | 32.51 | PPBV | | 85 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 289089 | 31.08 | PPBV | # | 77 |
| 35) TERTIARY BUTYL ALCOHOL | 2.393 | 59 | 638360 | 28.02 | PPBV | # | 88 |
| 36) METHYL TERTIARY BUTYL ... | 2.885 | 73 | 802744 | 29.86 | PPBV | # | 93 |
| 37) TETRAHYDROFURAN | 3.650 | 72 | 146353 | 44.87 | PPBV | # | 52 |
| 38) HEXANE | 3.393 | 57 | 559777 | 42.80 | PPBV | # | 78 |
| 39) VINYL ACETATE | 2.930 | 86 | 82155 | 36.16 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.852 | 63 | 564597 | 31.85 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.036 | 72 | 153989 | 34.71 | PPBV | # | 13 |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 292222 | 38.70 | PPBV | # | 77 |
| 43) DIISOPROPYL ETHER | 3.399 | 59 | 168018 | 45.00 | PPBV | # | 54 |
| 44) ETHYL ACETATE | 3.405 | 61 | 121298 | 47.80 | PPBV | # | 39 |
| 45) METHYL ACRYLATE | 3.393 | 55 | 733792 | 45.65 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.421 | 83 | 663946 | 41.62 | PPBV | # | 92 |
| 47) 2,4-DIMETHYLPENTANE | 3.955 | 57 | 627652 | 42.11 | PPBV | # | 94 |
| 48) 1,1,1-TRICHLOROETHANE | 4.042 | 97 | 611749 | 39.77 | PPBV | # | 93 |
| 49) CARBON TETRACHLORIDE | 4.499 | 117 | 592015 | 38.49 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.868 | 62 | 461847 | 40.09 | PPBV | # | 95 |
| 51) BENZENE | 4.380 | 78 | 911644 | 39.45 | PPBV | | 83 |
| 53) CYCLOHEXANE | 4.601 | 84 | 388000 | 39.40 | PPBV | # | 81 |
| 54) 2,3-DIMETHYLPENTANE | 4.875 | 71 | 210216 | 41.63 | PPBV | # | 65 |
| 55) TRICHLOROETHENE | 5.347 | 95 | 401612 | 39.47 | PPBV | | 91 |
| 56) 1,2-DICHLOROPROPANE | 5.103 | 63 | 383121 | 43.14 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.061 | 174 | 341610 | 35.09 | PPBV | # | 84 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26010.D
Acq On : 15 Sep 2022 3:01 pm
Operator : thomash
Sample : ic1105-40
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 08:07:23 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration

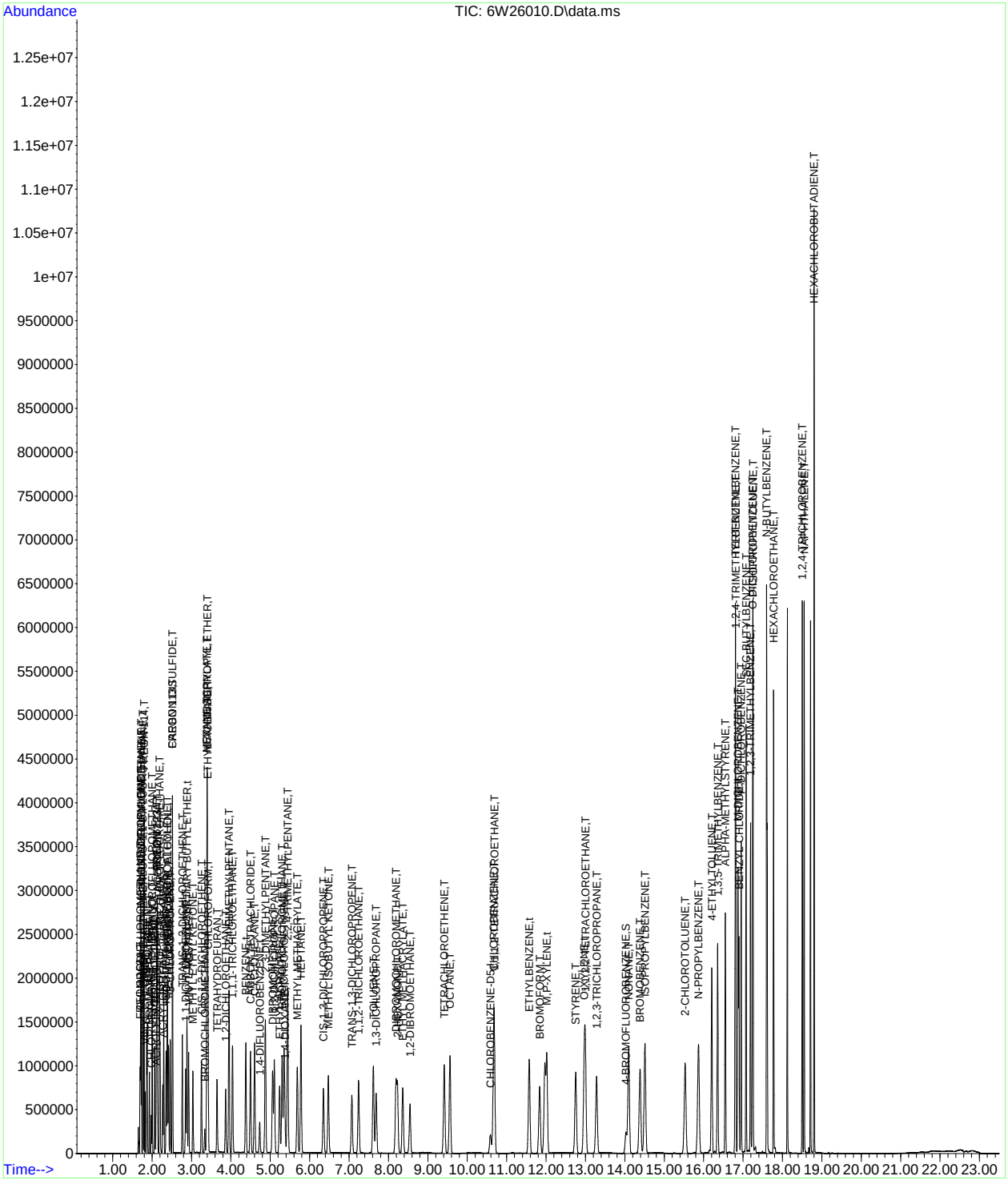
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.238 | 55 | 884605 | 46.91 | PPBV | # | 97 |
| 59) BROMODICHLOROMETHANE | 5.299 | 83 | 733358 | 43.23 | PPBV | | 97 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.441 | 57 | 1738695 | 42.36 | PPBV | # | 99 |
| 61) 1,4-DIOXANE | 5.373 | 88 | 200602 | 42.49 | PPBV | # | 74 |
| 62) HEPTANE | 5.778 | 43 | 690946 | 45.29 | PPBV | # | 76 |
| 63) METHYL METHACRYLATE | 5.685 | 69 | 383167 | 47.53 | PPBV | # | 55 |
| 64) METHYL ISOBUTYL KETONE | 6.473 | 58 | 275484 | 39.00 | PPBV | # | 65 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.351 | 75 | 474307 | 36.75 | PPBV | # | 76 |
| 66) TOLUENE | 7.617 | 91 | 941303 | 33.90 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.685 | 76 | 504586 | 35.56 | PPBV | # | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.071 | 75 | 447582 | 36.79 | PPBV | # | 79 |
| 69) 1,1,2-TRICHLOROETHANE | 7.244 | 83 | 297665 | 35.65 | PPBV | | 96 |
| 70) 2-HEXANONE | 8.232 | 58 | 372845 | 47.96 | PPBV | # | 64 |
| 71) ETHYL METHACRYLATE | 8.363 | 69 | 532037 | 43.34 | PPBV | # | 75 |
| 72) TETRACHLOROETHENE | 9.418 | 164 | 333230 | 33.01 | PPBV | | 98 |
| 73) DIBROMOCHLOROMETHANE | 8.190 | 129 | 567003 | 36.19 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.547 | 107 | 514918 | 34.53 | PPBV | | 99 |
| 75) OCTANE | 9.563 | 43 | 758907 | 35.96 | PPBV | # | 78 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.688 | 131 | 395342 | 39.70 | PPBV | | 89 |
| 78) CHLOROBENZENE | 10.672 | 112 | 751593 | 38.16 | PPBV | | 94 |
| 79) ETHYLBENZENE | 11.572 | 91 | 1290103 | 39.59 | PPBV | | 96 |
| 80) M,P-XYLENE | 12.016 | 91 | 2015712m | 81.63 | PPBV | | |
| 81) O-XYLENE | 12.968 | 91 | 1038129 | 40.72 | PPBV | | 95 |
| 82) STYRENE | 12.752 | 104 | 758951 | 42.51 | PPBV | # | 93 |
| 83) NONANE | 14.099 | 43 | 834637 | 43.26 | PPBV | # | 76 |
| 84) BROMOFORM | 11.839 | 173 | 581685 | 45.82 | PPBV | | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 13.000 | 83 | 853424 | 43.02 | PPBV | | 97 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.283 | 75 | 630105 | 42.53 | PPBV | | 100 |
| 88) ISOPROPYLBENZENE | 14.508 | 120 | 367218 | 38.25 | PPBV | # | 77 |
| 89) BROMOBENZENE | 14.386 | 77 | 787117 | 41.82 | PPBV | | 88 |
| 90) 2-CHLOROTOLUENE | 15.530 | 126 | 338267 | 40.12 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.865 | 120 | 382679 | 39.67 | PPBV | | 98 |
| 92) 4-ETHYLTOLUENE | 16.209 | 105 | 1506395 | 42.71 | PPBV | | 97 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.357 | 105 | 1279318 | 43.21 | PPBV | # | 95 |
| 94) ALPHA-METHYLSTYRENE | 16.550 | 118 | 648489 | 47.15 | PPBV | | 96 |
| 95) TERT-BUTYLBENZENE | 16.807 | 134 | 311964 | 40.91 | PPBV | | 97 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.813 | 105 | 1416397 | 45.20 | PPBV | | 90 |
| 97) BENZYL CHLORIDE | 16.897 | 91 | 1215569 | 49.45 | PPBV | # | 94 |
| 98) M-DICHLOROBENZENE | 16.874 | 146 | 886179 | 41.44 | PPBV | | 97 |
| 99) P-DICHLOROBENZENE | 16.951 | 146 | 934495 | 43.24 | PPBV | | 98 |
| 100) O-DICHLOROBENZENE | 17.244 | 146 | 917182 | 44.31 | PPBV | | 98 |
| 101) SEC-BUTYLBENZENE | 17.077 | 134 | 401231 | 43.34 | PPBV | | 92 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.189 | 105 | 1382643 | 45.22 | PPBV | # | 96 |
| 103) P-ISOPROPYLTOLUENE | 17.254 | 134 | 465860 | 44.54 | PPBV | | 97 |
| 104) N-BUTYLBENZENE | 17.598 | 134 | 447145 | 45.14 | PPBV | | 74 |
| 105) HEXACHLOROETHANE | 17.775 | 117 | 614457 | 50.25 | PPBV | | 94 |
| 106) HEXACHLOROBUTADIENE | 18.803 | 225 | 938149 | 51.42 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.504 | 180 | 995413 | 47.20 | PPBV | | 99 |
| 108) NAPHTHALENE | 18.553 | 128 | 2481560 | 47.29 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26010.D
Acq On : 15 Sep 2022 3:01 pm
Operator : thomash
Sample : ic1105-40
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 08:07:23 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V6W1105-IC1105
**Lab FileID:** 6W26010.D
**Injection Time:** 09/15/22 15:01

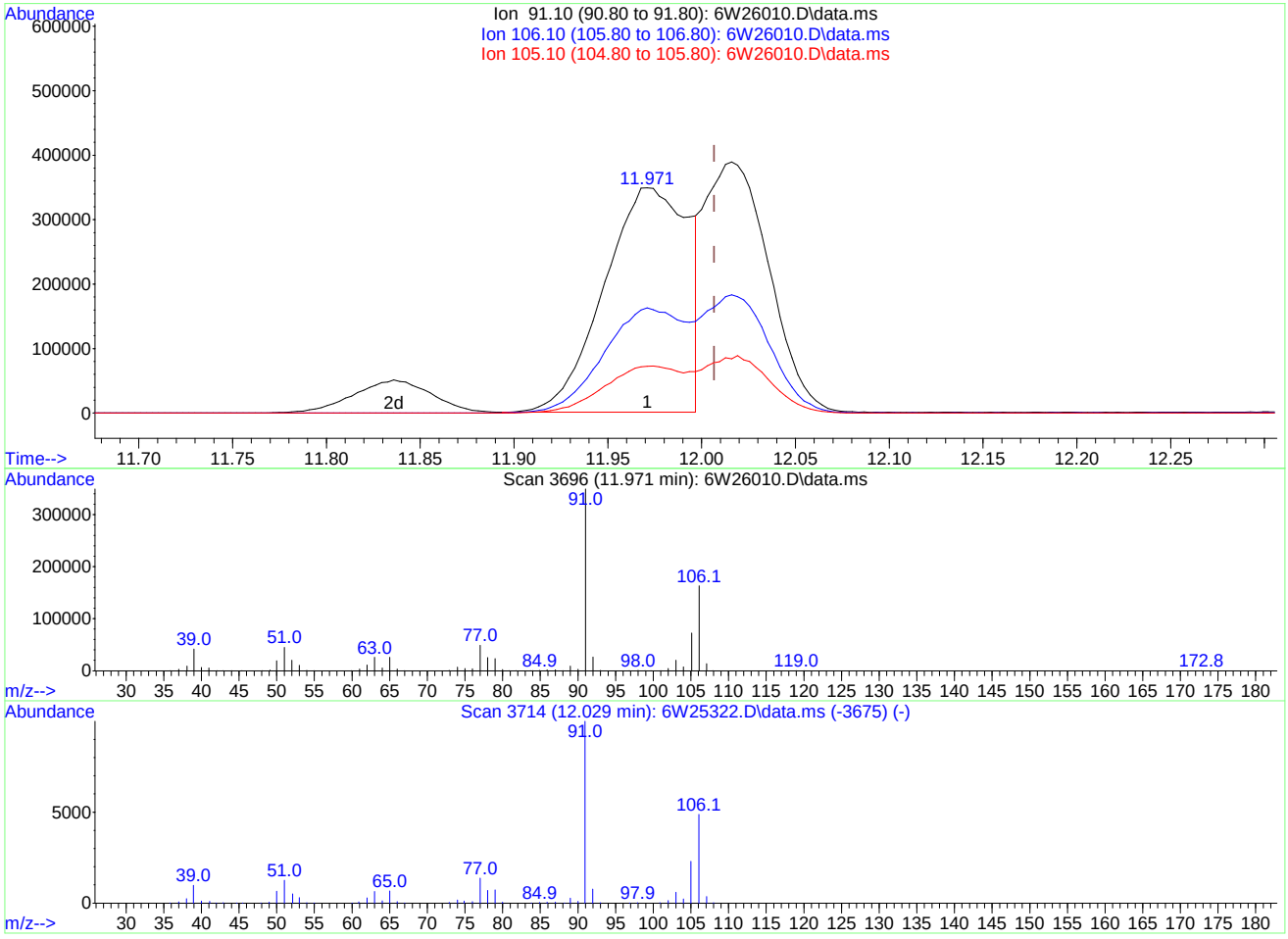
**Method:** TO-15
**Analyst approved:** 09/21/22 08:23 Thomas Hilbig
**Supervisor approved:** 09/21/22 11:19 Kanya Veerawat

| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.73 | Missed peak |
| m,p-Xylene | | | 12.02 | Split peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26010.D
Acq On : 15 Sep 2022 3:01 pm
Operator : thomash
Sample : ic1105-40
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 08:16:19 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26010.D\data.ms

(80) M,P-XYLENE (t)

11.971min (-0.036) 43.71PPBV

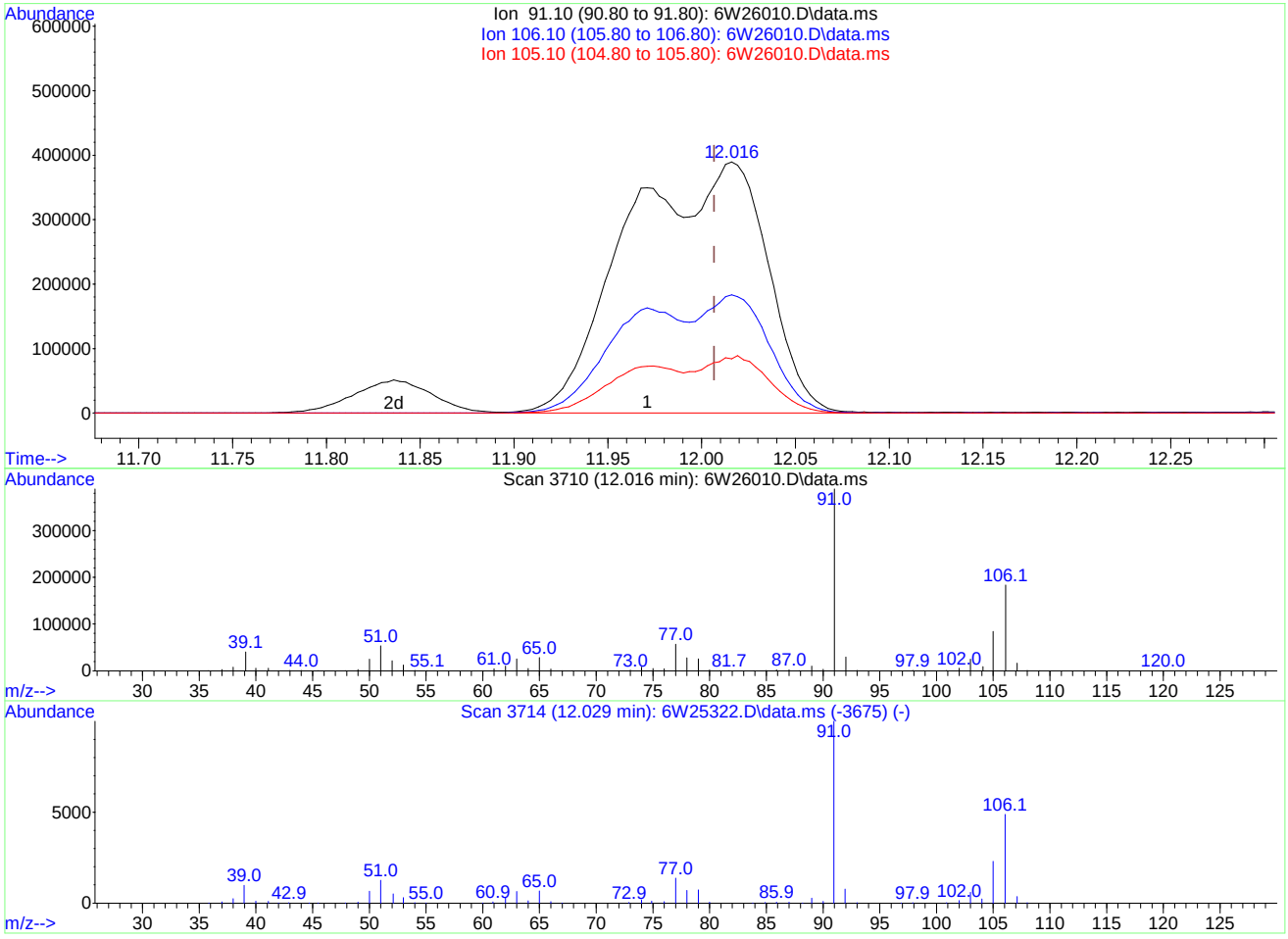
response 1079275

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 41.94 |
| 105.10 | 23.60 | 18.72 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26010.D
Acq On : 15 Sep 2022 3:01 pm
Operator : thomash
Sample : ic1105-40
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 08:16:19 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26010.D\data.ms

(80) M,P-XYLENE (t)

12.016min (+0.009) 81.63PPBV m

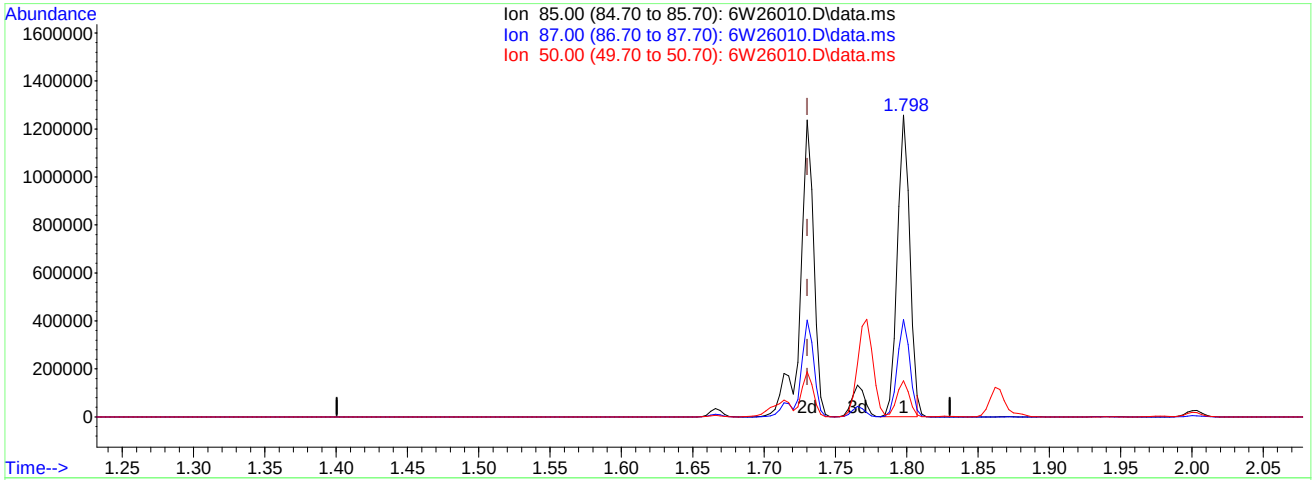
response 2015712

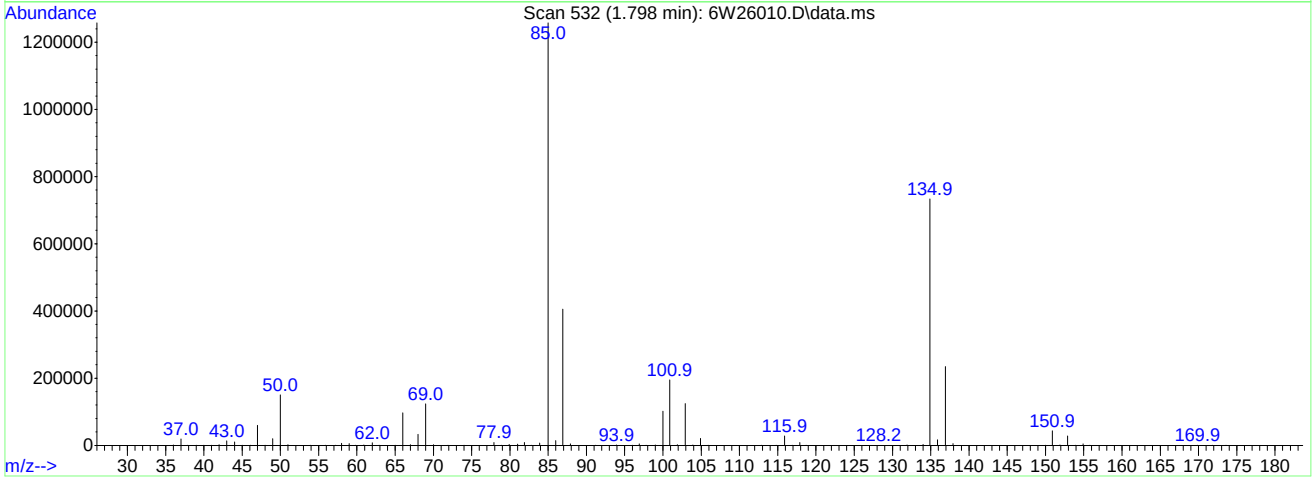
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 22.46# |
| 105.10 | 23.60 | 10.03 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26010.D
Acq On : 15 Sep 2022 3:01 pm
Operator : thomash
Sample : ic1105-40
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 09:09:40 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26010.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.798min (+0.067) 35.63PPBV

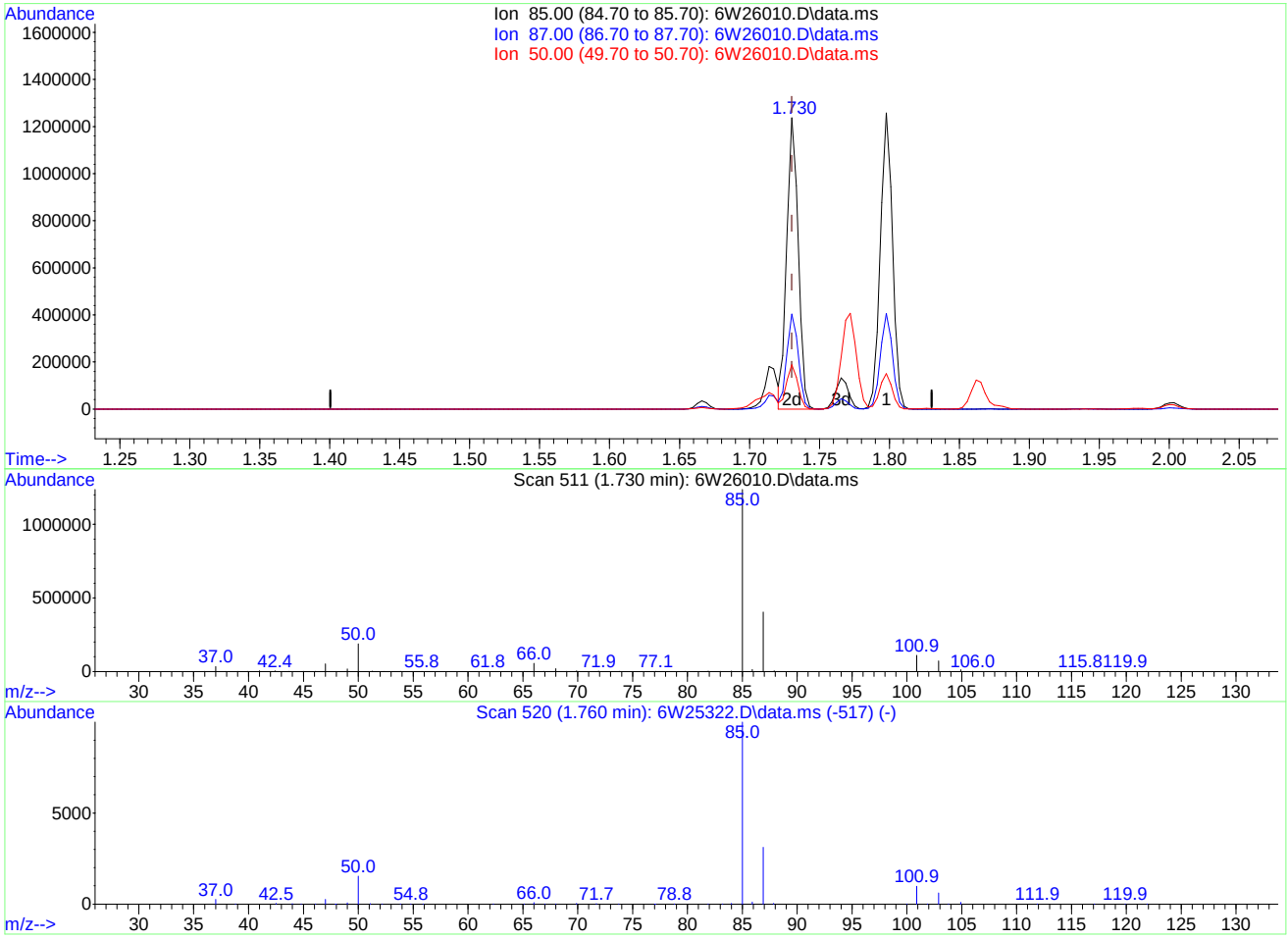
response 761715

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.14 |
| 50.00 | 9.30 | 10.54 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26010.D
Acq On : 15 Sep 2022 3:01 pm
Operator : thomash
Sample : ic1105-40
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 09:09:40 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26010.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (-0.000) 33.03PPBV m

response 706080

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 34.68 |
| 50.00 | 9.30 | 11.37# |
| 0.00 | 0.00 | 0.00 |

6W26011.D

Manual Integrations APPROVED (compounds with "m" flag)

Kanya Veerawat 09/21/22 11:19

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26011.D
Acq On : 15 Sep 2022 3:43 pm
Operator : thomash
Sample : ic1105-50
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 08:07:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 46143 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.733 | 114 | 249654 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 186821 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.029 | 95 | 143907 | 10.92 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 197397 | 47.57 | PPBV | # | 80 |
| 4) CHLORODIFLUOROMETHANE | 1.705 | 67 | 93520 | 49.88 | PPBV | | 97 |
| 5) CHLOROTRIFLUOROETHENE | 1.717 | 116 | 401739 | 45.09 | PPBV | # | 100 |
| 6) DICHLORODIFLUOROMETHANE | 1.730 | 85 | 914689m | 41.30 | PPBV | | |
| 7) PROPYLENE | 1.714 | 41 | 282278 | 46.08 | PPBV | | 96 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 897983 | 38.69 | PPBV | # | 88 |
| 9) FREON 114 | 1.798 | 85 | 1010774 | 42.45 | PPBV | | 92 |
| 10) CHLOROMETHANE | 1.772 | 52 | 122408 | 43.68 | PPBV | | 92 |
| 11) VINYL CHLORIDE | 1.827 | 62 | 404797 | 39.44 | PPBV | | 99 |
| 12) 1,3-BUTADIENE | 1.862 | 54 | 323922 | 42.95 | PPBV | # | 71 |
| 13) N-BUTANE | 1.878 | 43 | 662600 | 39.35 | PPBV | # | 91 |
| 14) BROMOMETHANE | 1.933 | 94 | 329174 | 39.99 | PPBV | | 100 |
| 15) CHLOROETHANE | 1.978 | 64 | 211899 | 38.48 | PPBV | | 97 |
| 16) DICHLOROFLUOROMETHANE | 2.000 | 67 | 897089 | 42.32 | PPBV | # | 96 |
| 17) ACETONITRILE | 2.065 | 41 | 418481 | 42.26 | PPBV | | 97 |
| 18) ACROLEIN | 2.100 | 56 | 204575 | 61.88 | PPBV | | 100 |
| 19) FREON 123 | 2.116 | 83 | 898529 | 43.94 | PPBV | | 98 |
| 20) FREON 123A | 2.129 | 117 | 442339 | 39.46 | PPBV | # | 62 |
| 21) TRICHLOROFLUOROMETHANE | 2.190 | 101 | 941684 | 40.16 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.203 | 45 | 891713 | 41.85 | PPBV | # | 99 |
| 23) ACETONE | 2.135 | 58 | 212057 | 36.50 | PPBV | # | 36 |
| 24) PENTANE | 2.296 | 42 | 468792 | 42.51 | PPBV | # | 94 |
| 25) IODOMETHANE | 2.354 | 142 | 872377 | 40.80 | PPBV | # | 84 |
| 26) 1,1-DICHLOROETHYLENE | 2.383 | 96 | 359381 | 41.86 | PPBV | # | 54 |
| 27) CARBON DISULFIDE | 2.518 | 76 | 1224582 | 45.53 | PPBV | # | 90 |
| 28) ETHANOL | 2.004 | 45 | 206149 | 43.01 | PPBV | | 96 |
| 29) BROMOETHENE | 2.071 | 106 | 328730 | 41.24 | PPBV | # | 98 |
| 30) ACRYLONITRILE | 2.270 | 52 | 316147 | 42.45 | PPBV | | 96 |
| 31) METHYLENE CHLORIDE | 2.418 | 84 | 343251 | 42.17 | PPBV | # | 62 |
| 32) 3-CHLOROPROPENE | 2.463 | 76 | 188555 | 40.01 | PPBV | # | 12 |
| 33) FREON 113 | 2.518 | 151 | 589160 | 42.08 | PPBV | | 85 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 383902 | 39.84 | PPBV | # | 78 |
| 35) TERTIARY BUTYL ALCOHOL | 2.393 | 59 | 861811 | 36.51 | PPBV | # | 86 |
| 36) METHYL TERTIARY BUTYL ... | 2.885 | 73 | 1071966 | 38.48 | PPBV | # | 93 |
| 37) TETRAHYDROFURAN | 3.650 | 72 | 193981 | 57.41 | PPBV | # | 53 |
| 38) HEXANE | 3.393 | 57 | 741527 | 54.72 | PPBV | # | 79 |
| 39) VINYL ACETATE | 2.930 | 86 | 109934 | 46.71 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.852 | 63 | 744310 | 40.53 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.036 | 72 | 202746 | 44.11 | PPBV | # | 15 |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 386639 | 49.43 | PPBV | # | 76 |
| 43) DIISOPROPYL ETHER | 3.399 | 59 | 221720 | 57.32 | PPBV | # | 56 |
| 44) ETHYL ACETATE | 3.409 | 61 | 160080 | 60.89 | PPBV | # | 41 |
| 45) METHYL ACRYLATE | 3.393 | 55 | 966496 | 58.03 | PPBV | # | 97 |
| 46) CHLOROFORM | 3.422 | 83 | 877135 | 53.08 | PPBV | # | 92 |
| 47) 2,4-DIMETHYLPENTANE | 3.952 | 57 | 821816 | 53.22 | PPBV | # | 94 |
| 48) 1,1,1-TRICHLOROETHANE | 4.042 | 97 | 804744 | 50.50 | PPBV | # | 93 |
| 49) CARBON TETRACHLORIDE | 4.499 | 117 | 778605 | 48.86 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.868 | 62 | 609369 | 51.05 | PPBV | # | 95 |
| 51) BENZENE | 4.380 | 78 | 1193608 | 49.85 | PPBV | | 84 |
| 53) CYCLOHEXANE | 4.602 | 84 | 510716 | 49.47 | PPBV | # | 81 |
| 54) 2,3-DIMETHYLPENTANE | 4.875 | 71 | 275567 | 52.05 | PPBV | # | 66 |
| 55) TRICHLOROETHENE | 5.351 | 95 | 524432 | 49.17 | PPBV | | 91 |
| 56) 1,2-DICHLOROPROPANE | 5.103 | 63 | 499286 | 53.63 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.061 | 174 | 445795 | 43.68 | PPBV | # | 84 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26011.D
Acq On : 15 Sep 2022 3:43 pm
Operator : thomash
Sample : ic1105-50
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 08:07:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration

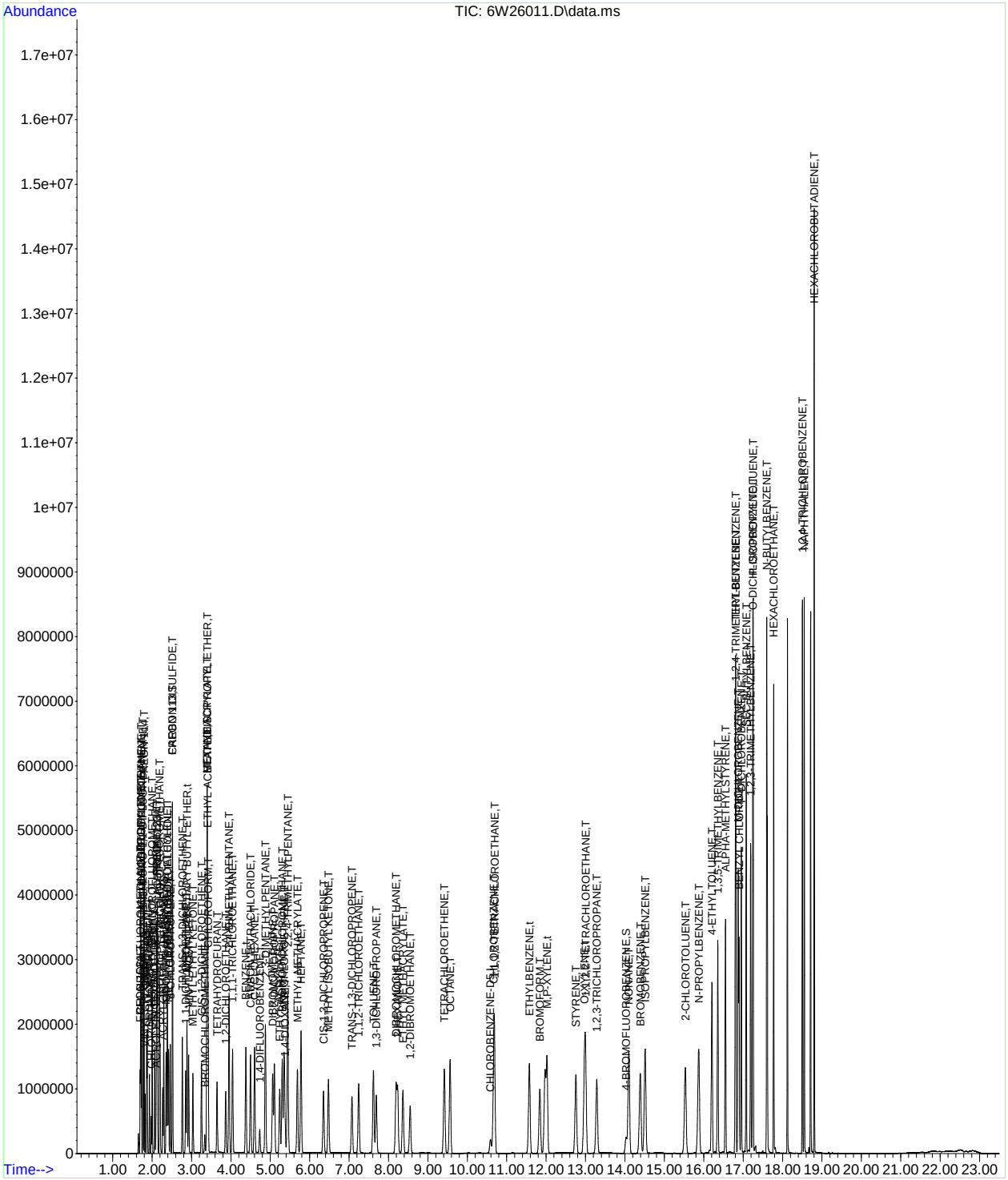
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.238 | 55 | 1152442 | 58.30 | PPBV | # | 97 |
| 59) BROMODICHLOROMETHANE | 5.302 | 83 | 958847 | 53.92 | PPBV | | 97 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.444 | 57 | 2267972 | 52.70 | PPBV | # | 99 |
| 61) 1,4-DIOXANE | 5.373 | 88 | 265919 | 53.72 | PPBV | # | 75 |
| 62) HEPTANE | 5.778 | 43 | 903820 | 56.51 | PPBV | # | 76 |
| 63) METHYL METHACRYLATE | 5.688 | 69 | 500023 | 59.17 | PPBV | # | 54 |
| 64) METHYL ISOBUTYL KETONE | 6.476 | 58 | 358874 | 48.46 | PPBV | # | 65 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.351 | 75 | 621048 | 45.90 | PPBV | # | 76 |
| 66) TOLUENE | 7.617 | 91 | 1234495 | 42.40 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.691 | 76 | 658837 | 44.28 | PPBV | # | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.071 | 75 | 593427 | 46.53 | PPBV | # | 79 |
| 69) 1,1,2-TRICHLOROETHANE | 7.245 | 83 | 387519 | 44.28 | PPBV | | 96 |
| 70) 2-HEXANONE | 8.232 | 58 | 489943 | 60.12 | PPBV | # | 65 |
| 71) ETHYL METHACRYLATE | 8.367 | 69 | 700208 | 54.41 | PPBV | # | 75 |
| 72) TETRACHLOROETHENE | 9.415 | 164 | 433794 | 40.99 | PPBV | | 97 |
| 73) DIBROMOCHLOROMETHANE | 8.190 | 129 | 742149 | 45.18 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.550 | 107 | 671204 | 42.93 | PPBV | | 100 |
| 75) OCTANE | 9.563 | 43 | 994488 | 44.95 | PPBV | # | 77 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.691 | 131 | 516553 | 50.52 | PPBV | | 89 |
| 78) CHLOROBENZENE | 10.672 | 112 | 978202 | 48.37 | PPBV | | 94 |
| 79) ETHYLBENZENE | 11.576 | 91 | 1682200 | 50.28 | PPBV | | 96 |
| 80) M,P-XYLENE | 12.022 | 91 | 2630098m | 103.74 | PPBV | | |
| 81) O-XYLENE | 12.971 | 91 | 1355651 | 51.79 | PPBV | | 94 |
| 82) STYRENE | 12.756 | 104 | 997456 | 54.42 | PPBV | # | 94 |
| 83) NONANE | 14.100 | 43 | 1082570 | 54.65 | PPBV | # | 76 |
| 84) BROMOFORM | 11.839 | 173 | 761085 | 58.40 | PPBV | | 98 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 13.003 | 83 | 1112003 | 54.60 | PPBV | | 97 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.286 | 75 | 824670 | 54.22 | PPBV | | 100 |
| 88) ISOPROPYLBENZENE | 14.511 | 120 | 484792 | 49.18 | PPBV | # | 77 |
| 89) BROMOBENZENE | 14.392 | 77 | 1031225 | 53.37 | PPBV | | 87 |
| 90) 2-CHLOROTOLUENE | 15.537 | 126 | 440621 | 50.91 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.874 | 120 | 503374 | 50.82 | PPBV | | 98 |
| 92) 4-ETHYLTOLUENE | 16.209 | 105 | 1970883 | 54.42 | PPBV | | 98 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.357 | 105 | 1707326 | 56.17 | PPBV | | 95 |
| 94) ALPHA-METHYLSTYRENE | 16.553 | 118 | 854627 | 60.52 | PPBV | | 96 |
| 95) TERT-BUTYLBENZENE | 16.807 | 134 | 418230 | 53.41 | PPBV | | 96 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.816 | 105 | 1901079 | 59.08 | PPBV | | 90 |
| 97) BENZYL CHLORIDE | 16.897 | 91 | 1655087 | 65.57 | PPBV | # | 94 |
| 98) M-DICHLOROBENZENE | 16.874 | 146 | 1188184 | 54.11 | PPBV | | 98 |
| 99) P-DICHLOROBENZENE | 16.955 | 146 | 1239422 | 55.85 | PPBV | | 98 |
| 100) O-DICHLOROBENZENE | 17.244 | 146 | 1233285 | 58.04 | PPBV | | 97 |
| 101) SEC-BUTYLBENZENE | 17.080 | 134 | 534752 | 56.26 | PPBV | | 94 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.189 | 105 | 1863594 | 59.36 | PPBV | | 96 |
| 103) P-ISOPROPYLTOLUENE | 17.254 | 134 | 633531 | 58.99 | PPBV | | 99 |
| 104) N-BUTYLBENZENE | 17.598 | 134 | 603538 | 59.34 | PPBV | | 76 |
| 105) HEXACHLOROETHANE | 17.775 | 117 | 839980 | 66.91 | PPBV | | 94 |
| 106) HEXACHLOROBUTADIENE | 18.804 | 225 | 1305758 | 69.71 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.505 | 180 | 1384647 | 63.95 | PPBV | | 99 |
| 108) NAPHTHALENE | 18.553 | 128 | 3381924 | 62.77 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26011.D
Acq On : 15 Sep 2022 3:43 pm
Operator : thomash
Sample : ic1105-50
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 21 08:07:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V6W1105-IC1105
**Lab FileID:** 6W26011.D
**Injection Time:** 09/15/22 15:43

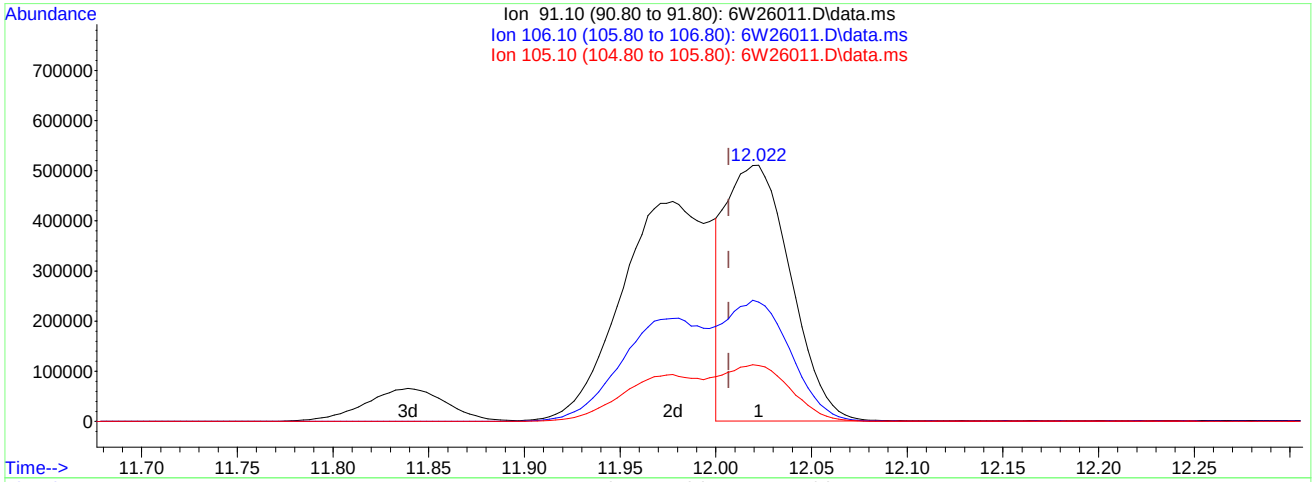
**Method:** TO-15
**Analyst approved:** 09/21/22 08:23 Thomas Hilbig
**Supervisor approved:** 09/21/22 11:19 Kanya Veerawat

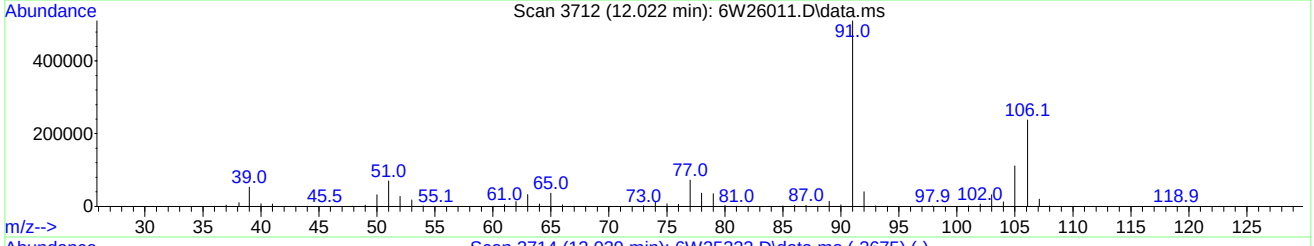
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.73 | Missed peak |
| m,p-Xylene | | | 12.02 | Split peak |

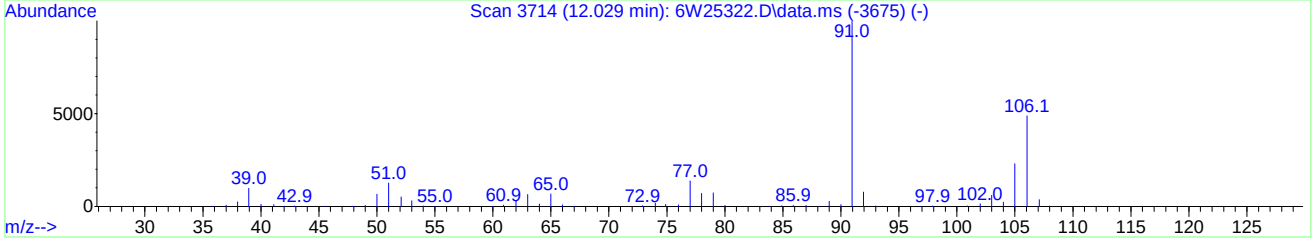
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26011.D
Acq On : 15 Sep 2022 3:43 pm
Operator : thomash
Sample : ic1105-50
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 08:15:37 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26011.D\data.ms

(80) M,P-XYLENE (t)

12.022min (+0.016) 47.56PPBV

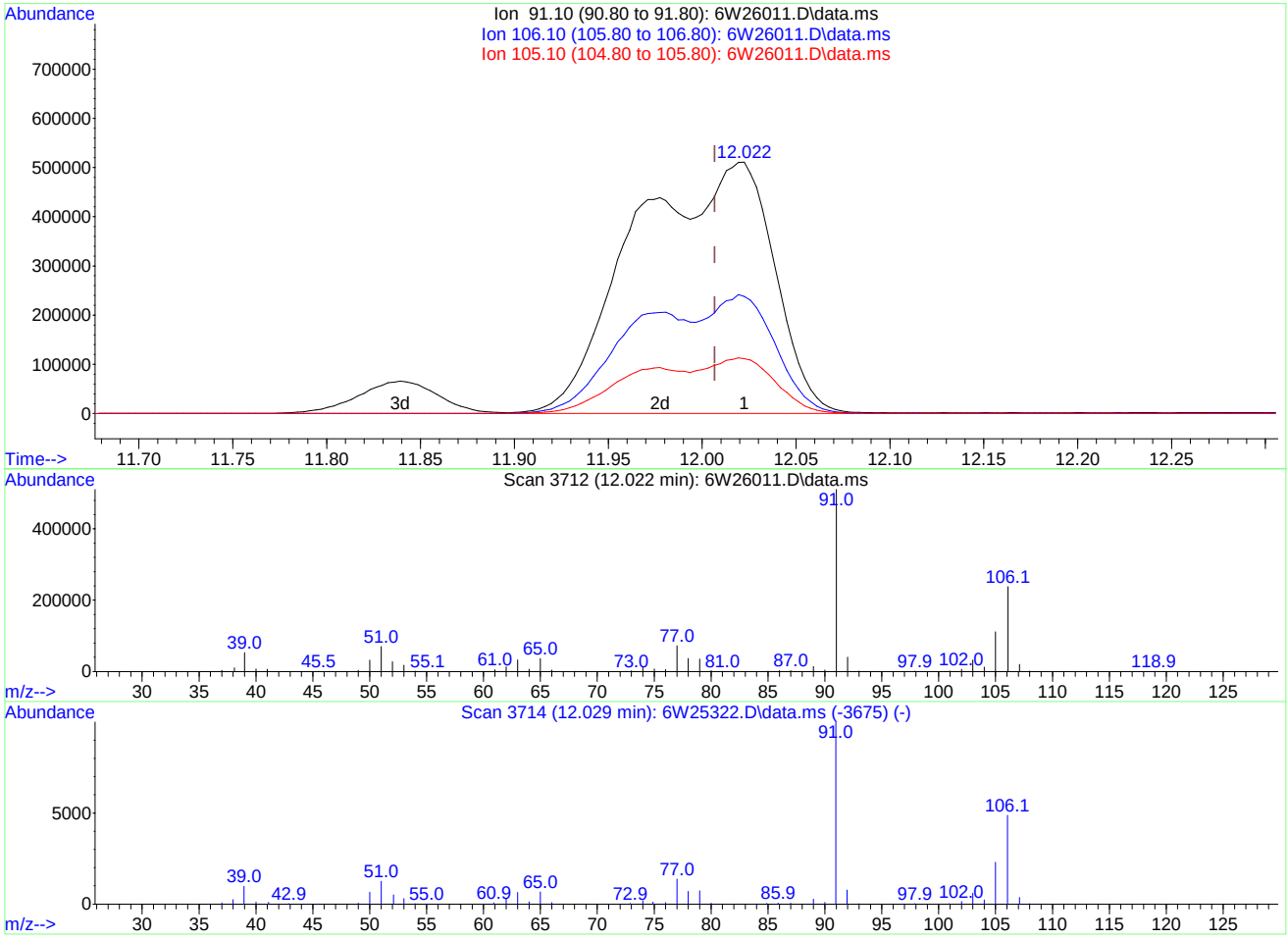
response 1205884

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 52.82 |
| 105.10 | 23.60 | 24.85 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26011.D
Acq On : 15 Sep 2022 3:43 pm
Operator : thomash
Sample : ic1105-50
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 08:15:37 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26011.D\data.ms

(80) M,P-XYLENE (t)

12.022min (+0.016) 103.74PPBV m

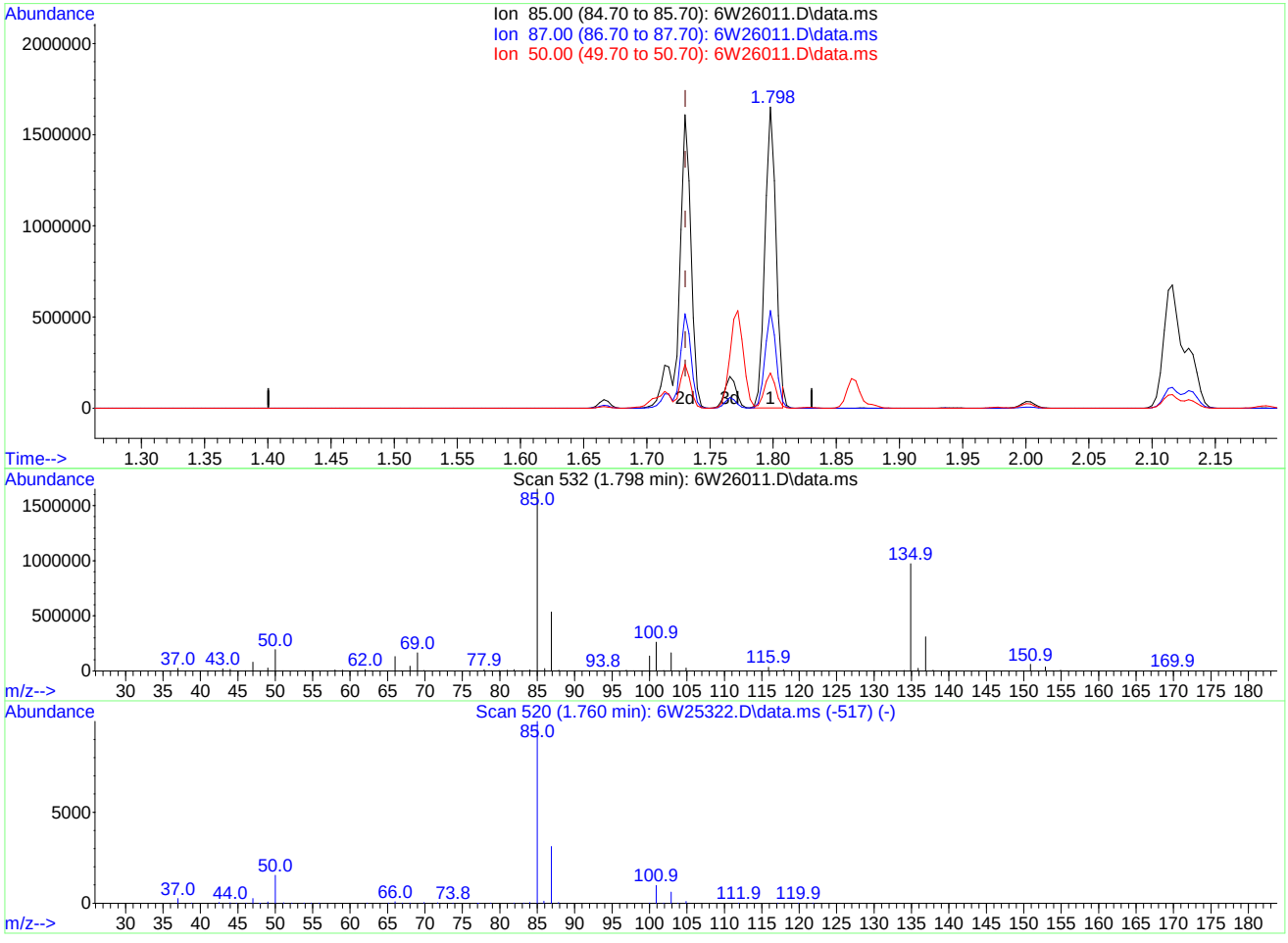
response 2630098

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 24.22# |
| 105.10 | 23.60 | 11.39 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26011.D
Acq On : 15 Sep 2022 3:43 pm
Operator : thomash
Sample : ic1105-50
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 09:14:04 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26011.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.798min (+0.067) 45.45PPBV

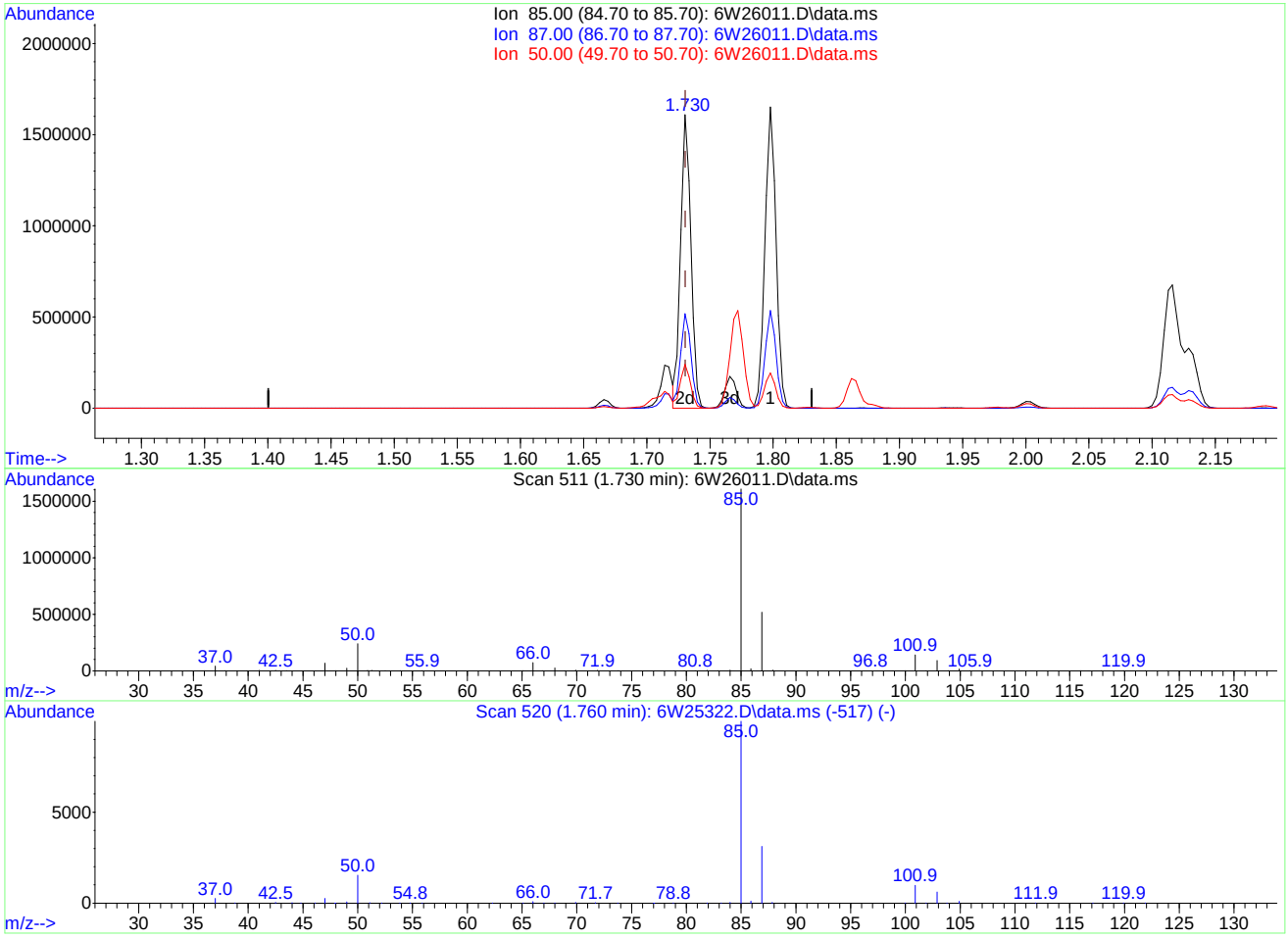
response 1006558

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.02 |
| 50.00 | 9.30 | 10.35 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26011.D
Acq On : 15 Sep 2022 3:43 pm
Operator : thomash
Sample : ic1105-50
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 09:14:04 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26011.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (-0.000) 41.30PPBV m

response 914689

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 35.23 |
| 50.00 | 9.30 | 11.39# |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/21/22 11:19

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26014.D
Acq On : 15 Sep 2022 5:22 pm
Operator : thomash
Sample : ic1105-0.04
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:03:36 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.341 | 128 | 42158 | 10.00 | PPBV | # 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.734 | 114 | 204741 | 10.00 | PPBV | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 170286 | 10.00 | PPBV | 0.00 |
| System Monitoring Compounds | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.023 | 95 | 120107 | 9.99 | PPBV | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 6) DICHLORODIFLUOROMETHANE | 1.734 | 85 | 1304 | 0.06 | PPBV | # 50 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.769 | 65 | 1011 | 0.05 | PPBV | # 1 |
| 9) FREON 114 | 1.801 | 85 | 1109 | 0.05 | PPBV | # 80 |
| 11) VINYL CHLORIDE | 1.830 | 62 | 521 | 0.06 | PPBV | # 50 |
| 16) DICHLOROFLUOROMETHANE | 2.001 | 67 | 1163 | 0.06 | PPBV | # 49 |
| 19) FREON 123 | 2.116 | 83 | 1001 | 0.05 | PPBV | # 82 |
| 20) FREON 123A | 2.136 | 117 | 506 | 0.05 | PPBV | # 63 |
| 21) TRICHLOROFLUOROMETHANE | 2.193 | 101 | 1109 | 0.05 | PPBV | # 89 |
| 24) PENTANE | 2.300 | 42 | 673 | 0.07 | PPBV | # 79 |
| 25) IODOMETHANE | 2.361 | 142 | 917 | 0.05 | PPBV | # 38 |
| 27) CARBON DISULFIDE | 2.521 | 76 | 1366 | 0.06 | PPBV | # 41 |
| 32) 3-CHLOROPROPENE | 2.467 | 76 | 188m | 0.04 | PPBV | |
| 33) FREON 113 | 2.518 | 151 | 636 | 0.05 | PPBV | 81 |
| 35) TERTIARY BUTYL ALCOHOL | 2.406 | 59 | 956 | 0.04 | PPBV | # 71 |
| 36) METHYL TERTIARY BUTYL ... | 2.898 | 73 | 1165 | 0.05 | PPBV | # 88 |
| 38) HEXANE | 3.396 | 57 | 830 | 0.07 | PPBV | # 18 |
| 40) 1,1-DICHLOROETHANE | 2.849 | 63 | 936 | 0.06 | PPBV | # 50 |
| 42) CIS-1,2-DICHLOROETHENE | 3.258 | 96 | 525 | 0.07 | PPBV | # 53 |
| 44) ETHYL ACETATE | 3.412 | 61 | 143m | 0.06 | PPBV | |
| 45) METHYL ACRYLATE | 3.393 | 55 | 1164 | 0.08 | PPBV | # 65 |
| 46) CHLOROFORM | 3.422 | 83 | 934 | 0.06 | PPBV | # 86 |
| 47) 2,4-DIMETHYLPENTANE | 3.952 | 57 | 789 | 0.06 | PPBV | # 31 |
| 48) 1,1,1-TRICHLOROETHANE | 4.042 | 97 | 754 | 0.05 | PPBV | # 68 |
| 49) CARBON TETRACHLORIDE | 4.499 | 117 | 835 | 0.06 | PPBV | # 76 |
| 50) 1,2-DICHLOROETHANE | 3.869 | 62 | 683 | 0.06 | PPBV | # 49 |
| 51) BENZENE | 4.377 | 78 | 1212 | 0.06 | PPBV | # 66 |
| 55) TRICHLOROETHENE | 5.351 | 95 | 469m | 0.05 | PPBV | |
| 56) 1,2-DICHLOROPROPANE | 5.100 | 63 | 531 | 0.07 | PPBV | # 41 |
| 58) ETHYL ACRYLATE | 5.248 | 55 | 881 | 0.05 | PPBV | # 73 |
| 59) BROMODICHLOROMETHANE | 5.299 | 83 | 927 | 0.06 | PPBV | 90 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.447 | 57 | 2038 | 0.06 | PPBV | # 96 |
| 62) HEPTANE | 5.785 | 43 | 786 | 0.06 | PPBV | # 15 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.348 | 75 | 547 | 0.05 | PPBV | # 15 |
| 66) TOLUENE | 7.611 | 91 | 1194 | 0.05 | PPBV | 98 |
| 67) 1,3-DICHLOROPROPANE | 7.682 | 76 | 756 | 0.06 | PPBV | # 49 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.068 | 75 | 613 | 0.06 | PPBV | # 42 |
| 71) ETHYL METHACRYLATE | 8.360 | 69 | 521 | 0.05 | PPBV | # 40 |
| 72) TETRACHLOROETHENE | 9.425 | 164 | 426m | 0.05 | PPBV | |
| 73) DIBROMOCHLOROMETHANE | 8.177 | 129 | 743 | 0.06 | PPBV | # 77 |
| 74) 1,2-DIBROMOETHANE | 8.537 | 107 | 698 | 0.05 | PPBV | # 6 |
| 75) OCTANE | 9.563 | 43 | 913 | 0.05 | PPBV | # 23 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.672 | 131 | 514 | 0.06 | PPBV | # 39 |
| 78) CHLOROBENZENE | 10.663 | 112 | 1024 | 0.06 | PPBV | # 71 |
| 79) ETHYLBENZENE | 11.579 | 91 | 1572 | 0.05 | PPBV | # 43 |
| 80) M,P-XYLENE | 11.965 | 91 | 2223m | 0.10 | PPBV | |
| 81) O-XYLENE | 12.952 | 91 | 1153 | 0.05 | PPBV | # 75 |
| 82) STYRENE | 12.733 | 104 | 795 | 0.05 | PPBV | # 33 |
| 83) NONANE | 14.084 | 43 | 1254 | 0.07 | PPBV | # 37 |
| 84) BROMOFORM | 11.826 | 173 | 649 | 0.05 | PPBV | # 36 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.987 | 83 | 1078 | 0.06 | PPBV | # 93 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.261 | 75 | 830 | 0.06 | PPBV | # 99 |
| 89) BROMOBENZENE | 14.373 | 77 | 917 | 0.05 | PPBV | # 53 |
| 92) 4-ETHYLTOLUENE | 16.199 | 105 | 1321 | 0.04 | PPBV | # 49 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.347 | 105 | 1113 | 0.04 | PPBV | # 92 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26014.D
Acq On : 15 Sep 2022 5:22 pm
Operator : thomash
Sample : ic1105-0.04
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:03:36 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 96) 1,2,4-TRIMETHYLBENZENE | 16.804 | 105 | 1208 | 0.04 | PPBV | # | 88 |
| 98) M-DICHLOROBENZENE | 16.865 | 146 | 925 | 0.05 | PPBV | # | 72 |
| 99) P-DICHLOROBENZENE | 16.945 | 146 | 883 | 0.04 | PPBV | # | 72 |
| 100) O-DICHLOROBENZENE | 17.235 | 146 | 908 | 0.05 | PPBV | # | 72 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.183 | 105 | 1055 | 0.04 | PPBV | # | 39 |
| 105) HEXACHLOROETHANE | 17.768 | 117 | 676 | 0.06 | PPBV | # | 55 |
| 106) HEXACHLOROBUTADIENE | 18.794 | 225 | 903 | 0.05 | PPBV | | 92 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.495 | 180 | 759 | 0.04 | PPBV | # | 81 |
| 108) NAPHTHALENE | 18.543 | 128 | 1529 | 0.03 | PPBV | # | 69 |

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

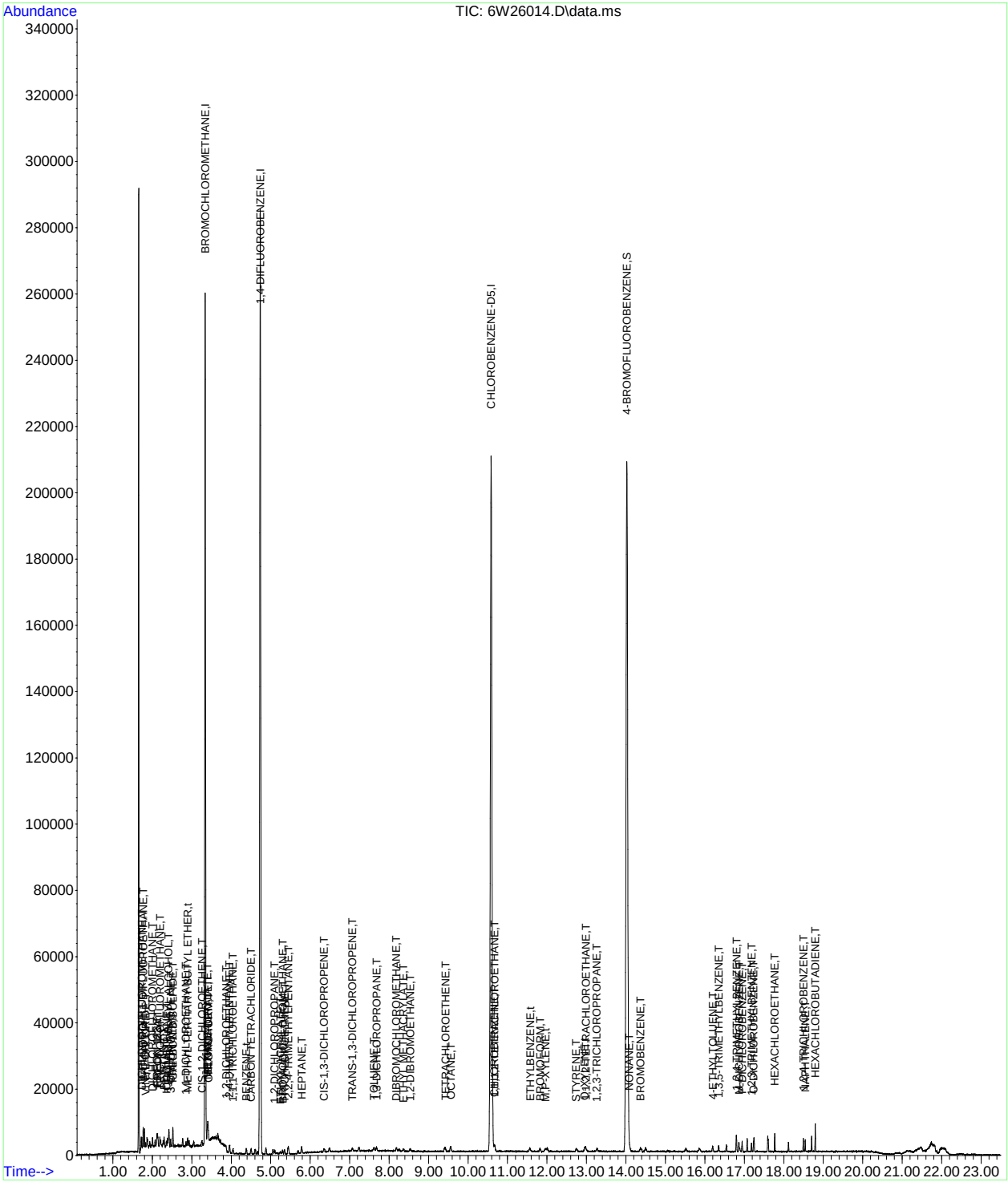
7.7.34

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26014.D
Acq On : 15 Sep 2022 5:22 pm
Operator : thomash
Sample : ic1105-0.04
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:03:36 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



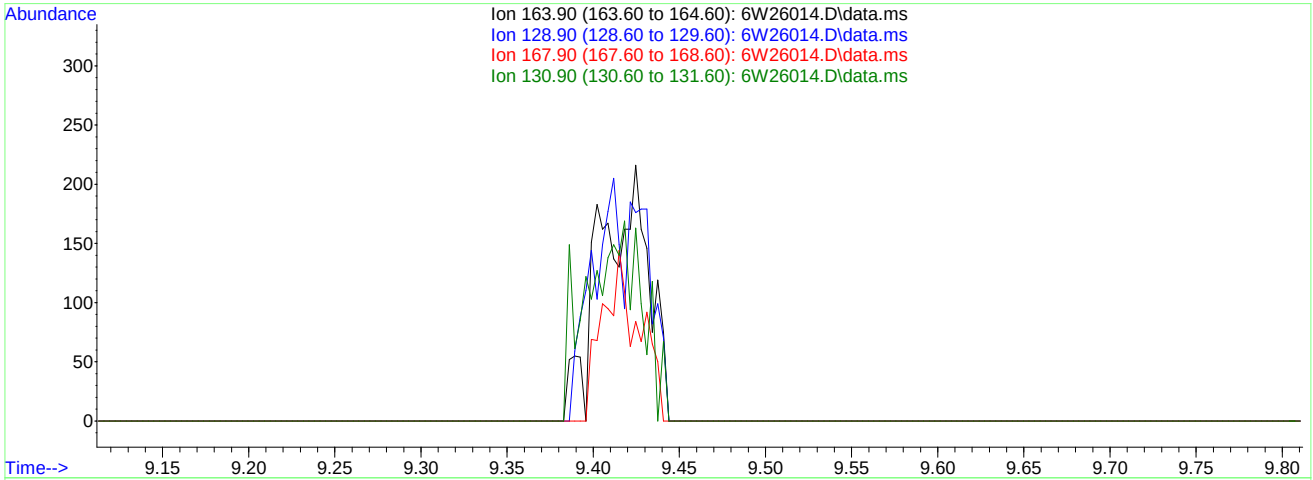
**Sample Number:** V6W1105-IC1105 **Method:** TO-15
**Lab FileID:** 6W26014.D **Analyst approved:** 09/21/22 08:23 Thomas Hilbig
**Injection Time:** 09/15/22 17:22 **Supervisor approved:** 09/21/22 11:19 Kanya Veerawat

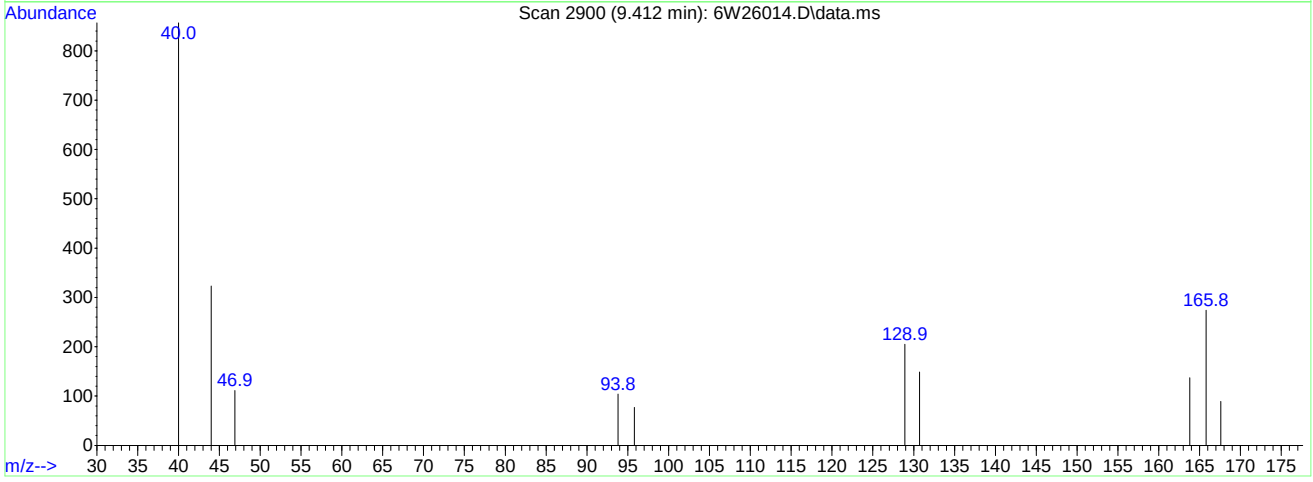
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| 3-Chloropropene | 107-05-1 | | 2.47 | Missed peak |
| Ethyl Acetate | 141-78-6 | | 3.41 | Missed peak |
| Trichloroethylene | 79-01-6 | | 5.35 | Missed peak |
| Tetrachloroethylene | 127-18-4 | | 9.42 | Missed peak |
| m,p-Xylene | | | 11.96 | Split peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26014.D
Acq On : 15 Sep 2022 5:22 pm
Operator : thomash
Sample : ic1105-0.04
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:08 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26014.D\data.ms

(72) TETRACHLOROETHENE (T)

9.412min (-9.412) 0.00PPBV

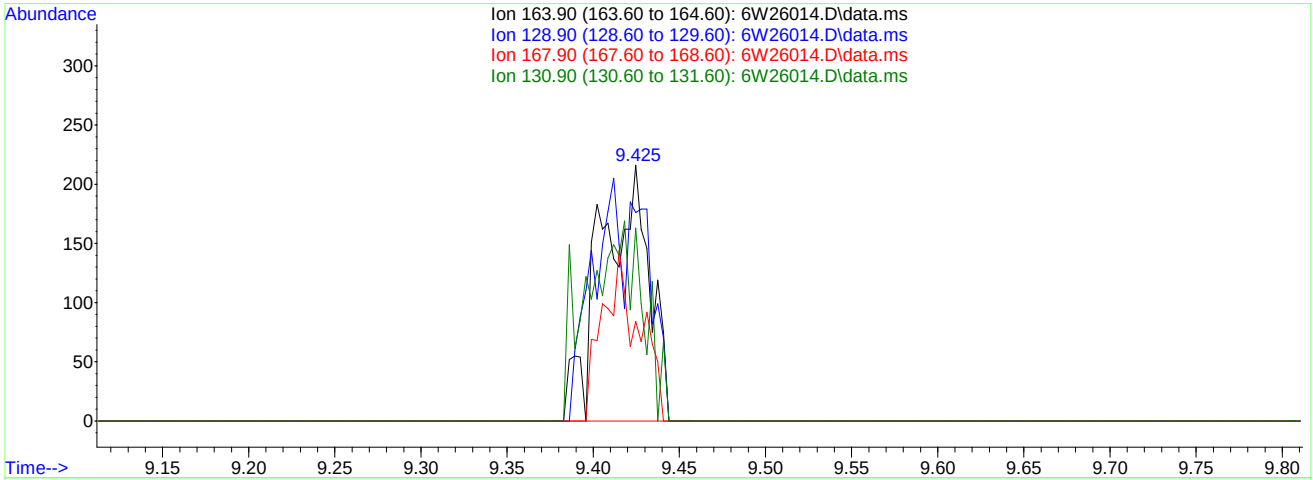
response 0

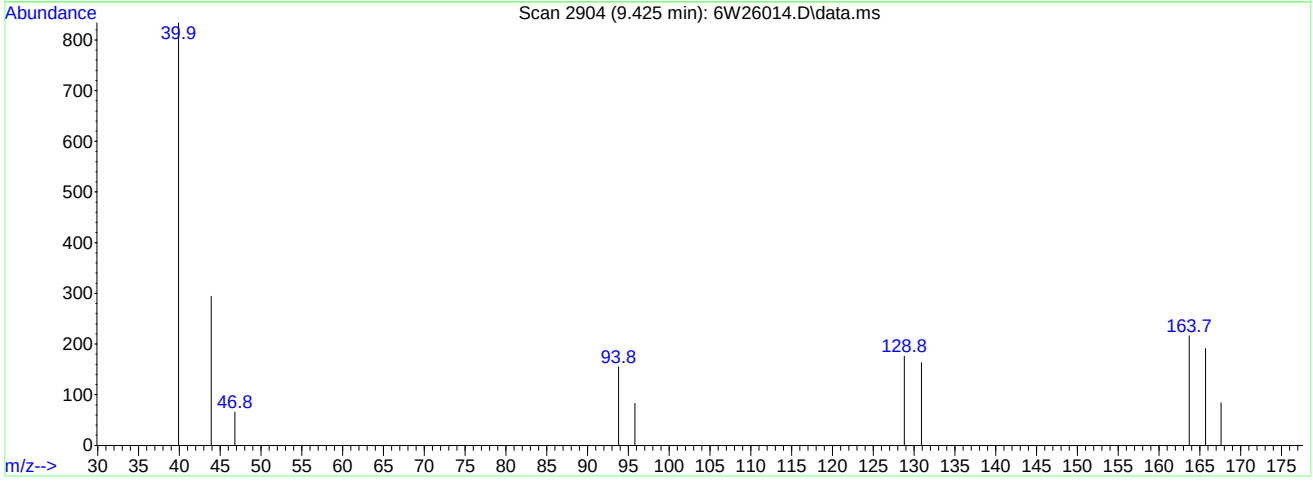
| Ion | Exp% | Act% |
|---|---|---|
| 163.90 | 100 | 0.00 |
| 128.90 | 90.00 | 0.00# |
| 167.90 | 60.70 | 0.00# |
| 130.90 | 86.30 | 0.00# |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26014.D
Acq On : 15 Sep 2022 5:22 pm
Operator : thomash
Sample : ic1105-0.04
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:08 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26014.D\data.ms

(72) TETRACHLOROETHENE (T)

9.425min (+0.013) 0.05PPBV m

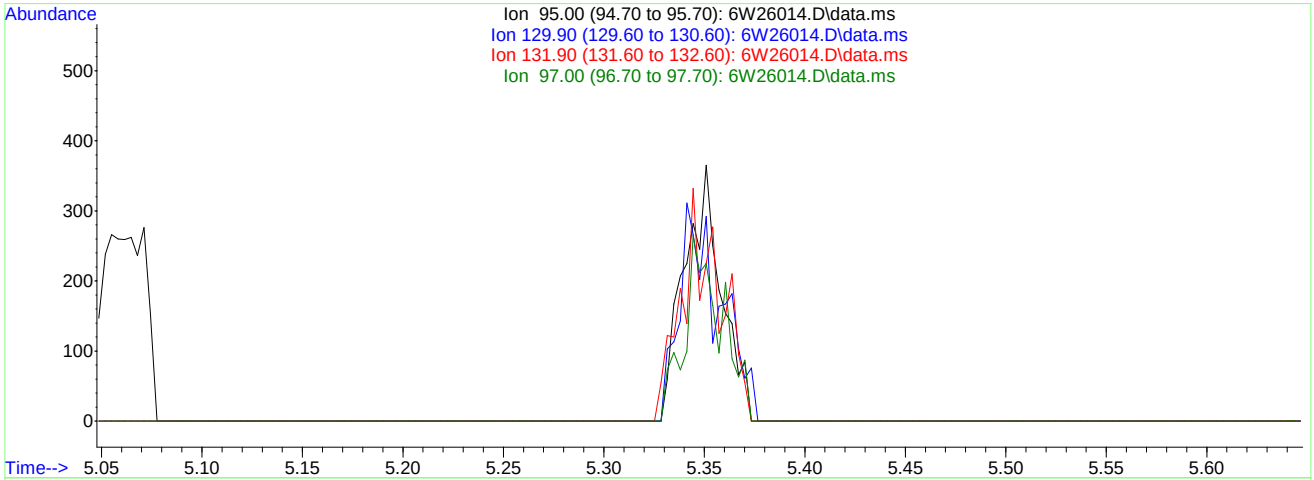
response 426

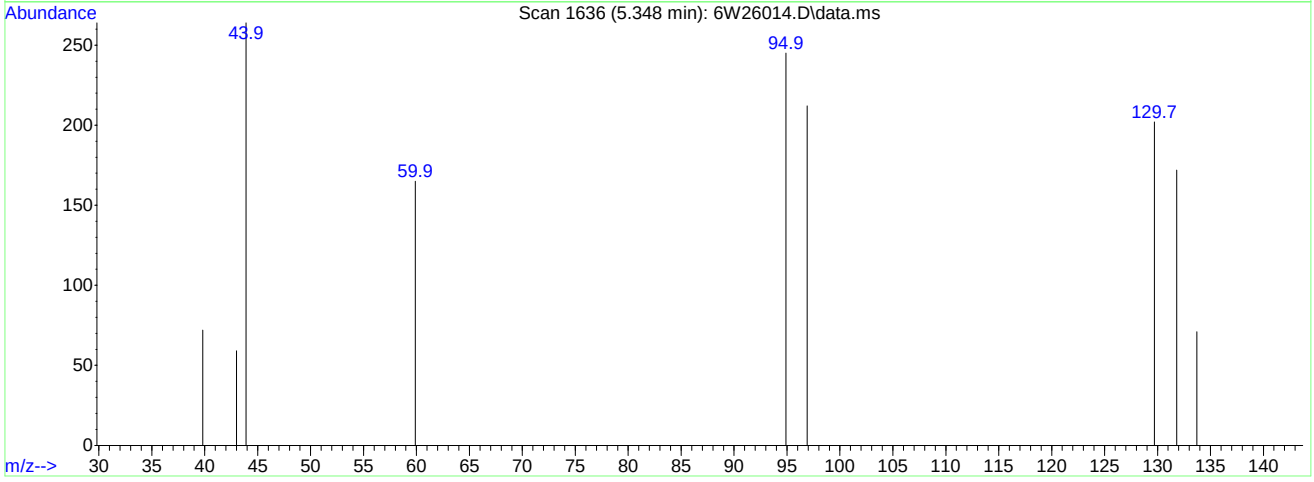
| Ion | Exp% | Act% |
|---|---|---|
| 163.90 | 100 | 100 |
| 128.90 | 90.00 | 0.00# |
| 167.90 | 60.70 | 0.00# |
| 130.90 | 86.30 | 0.00# |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26014.D
Acq On : 15 Sep 2022 5:22 pm
Operator : thomash
Sample : ic1105-0.04
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:08 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26014.D\data.ms

(55) TRICHLOROETHENE (T)

5.348min (-5.348) 0.00PPBV

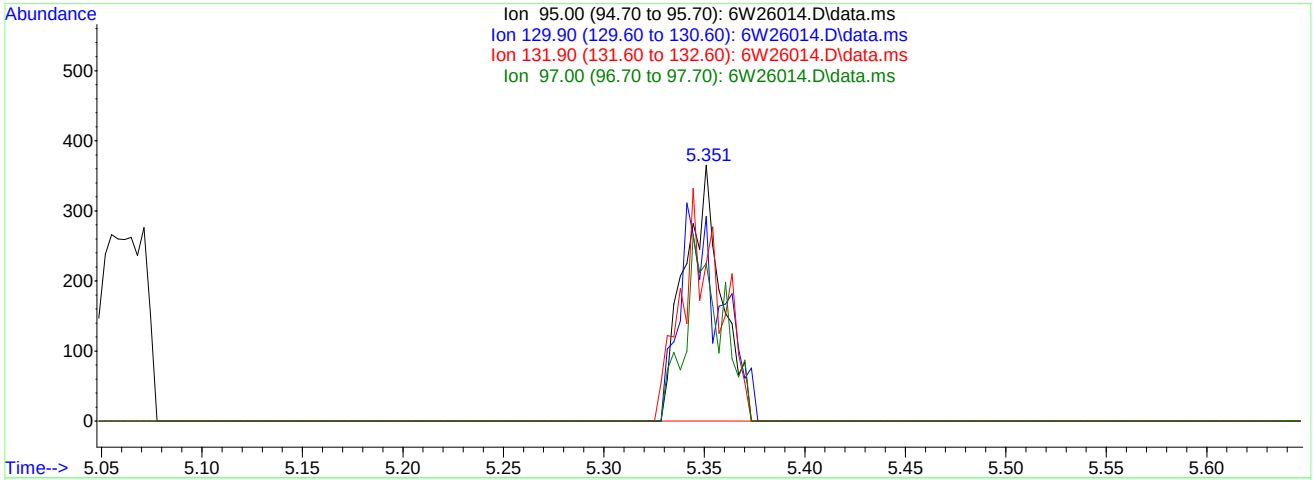
response 0

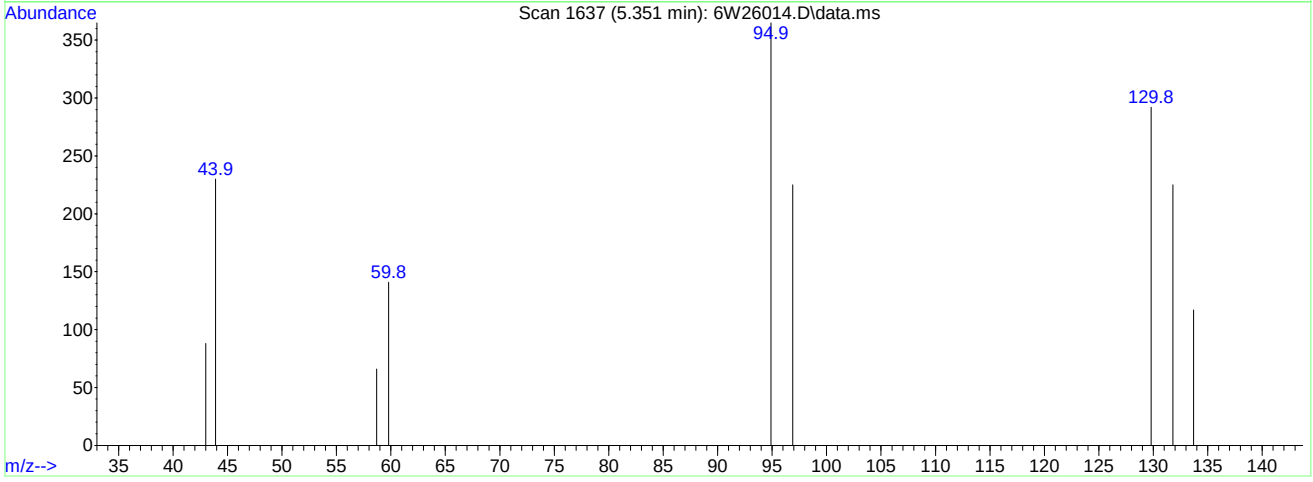
| Ion | Exp% | Act% |
|---|---|---|
| 95.00 | 100 | 0.00 |
| 129.90 | 104.00 | 0.00# |
| 131.90 | 99.70 | 0.00# |
| 97.00 | 64.10 | 0.00# |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26014.D
Acq On : 15 Sep 2022 5:22 pm
Operator : thomash
Sample : ic1105-0.04
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:08 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26014.D\data.ms

(55) TRICHLOROETHENE (T)

5.351min (+0.003) 0.05PPBV m

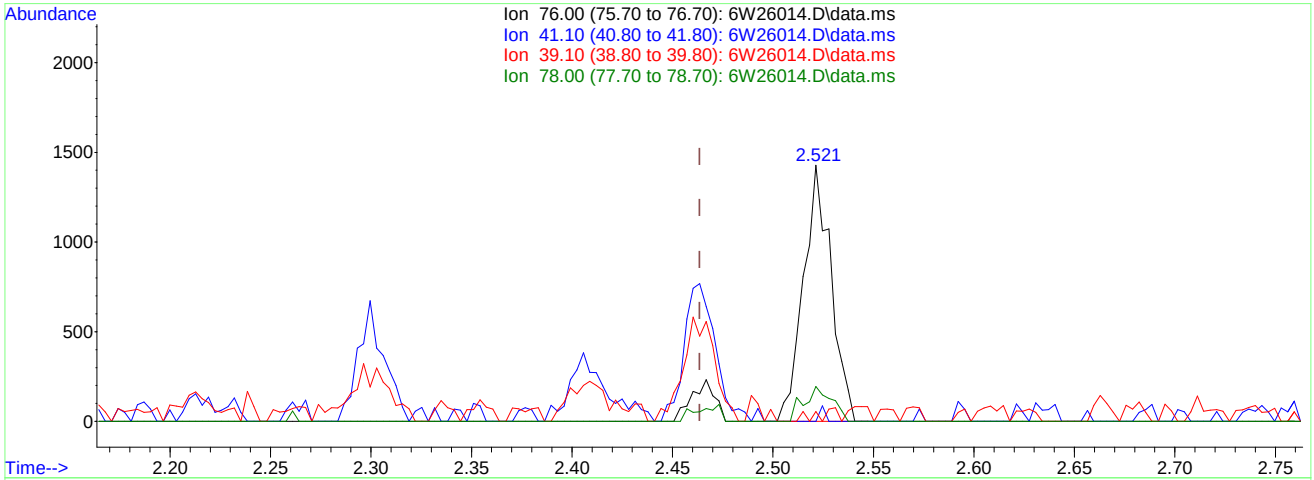
response 469

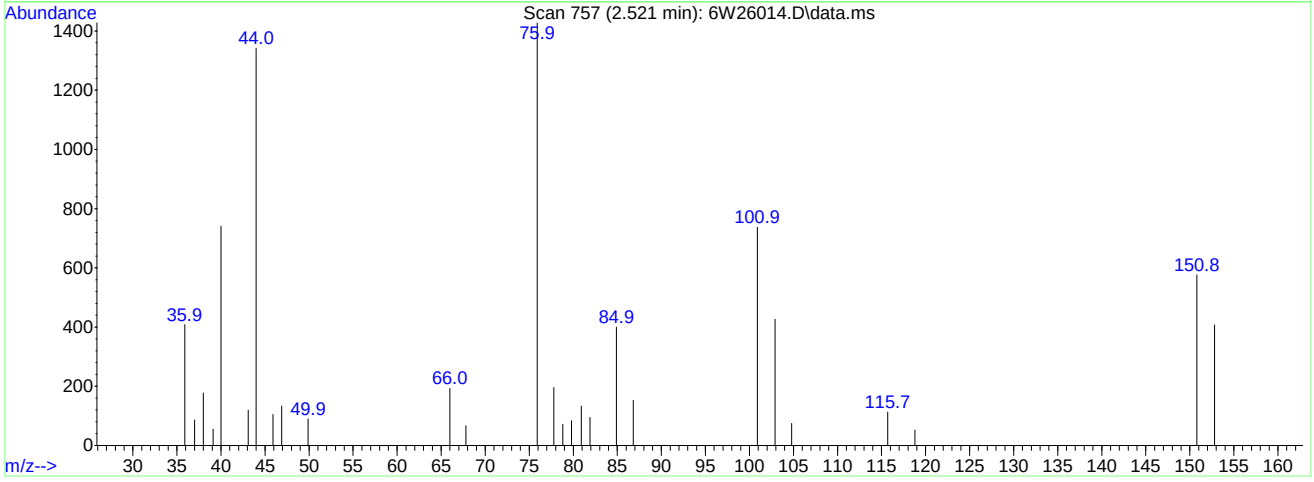
| Ion | Exp% | Act% |
|---|---|---|
| 95.00 | 100 | 100 |
| 129.90 | 104.00 | 0.00# |
| 131.90 | 99.70 | 0.00# |
| 97.00 | 64.10 | 0.00# |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26014.D
Acq On : 15 Sep 2022 5:22 pm
Operator : thomash
Sample : ic1105-0.04
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:08 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26014.D\data.ms

(32) 3-CHLOROPROPENE (T)

2.521min (+0.058) 0.32PPBV

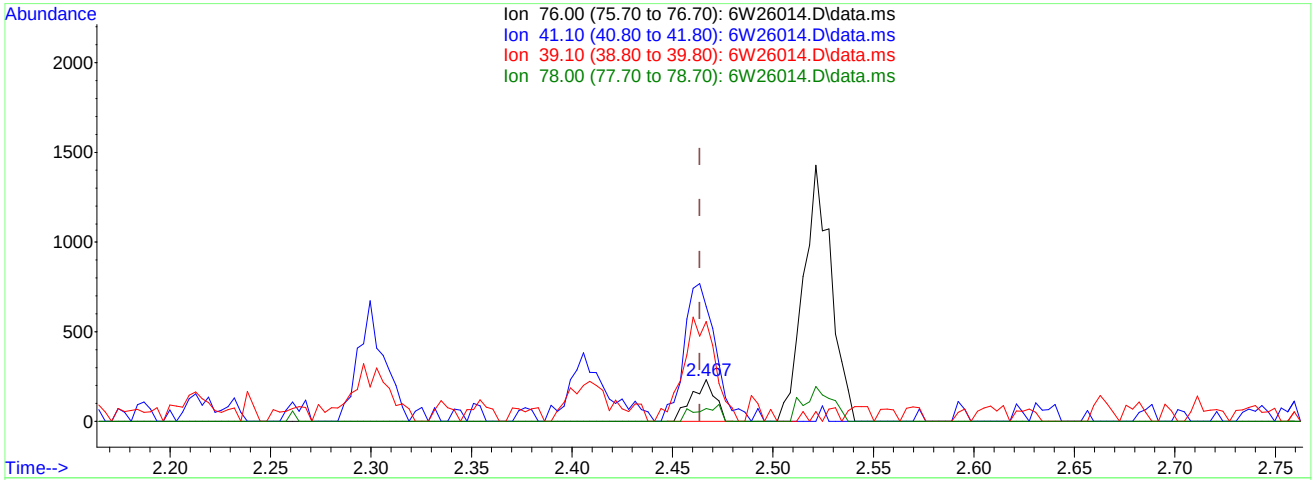
response 1366

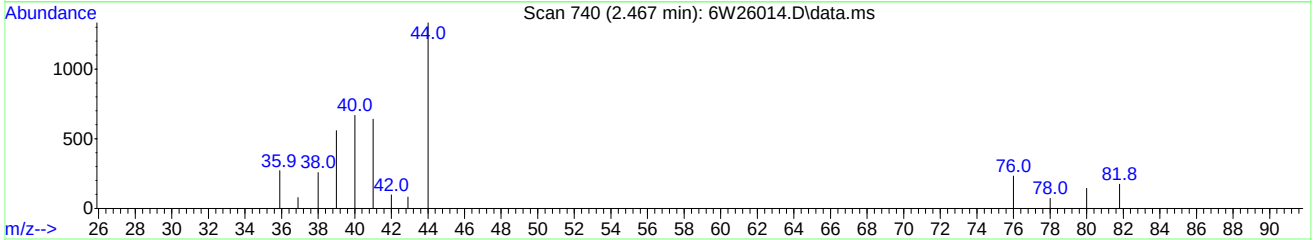
| Ion | Exp% | Act% |
|---|---|---|
| 76.00 | 100 | 100 |
| 41.10 | 184.90 | 0.00# |
| 39.10 | 118.20 | 0.00# |
| 78.00 | 32.40 | 0.00# |

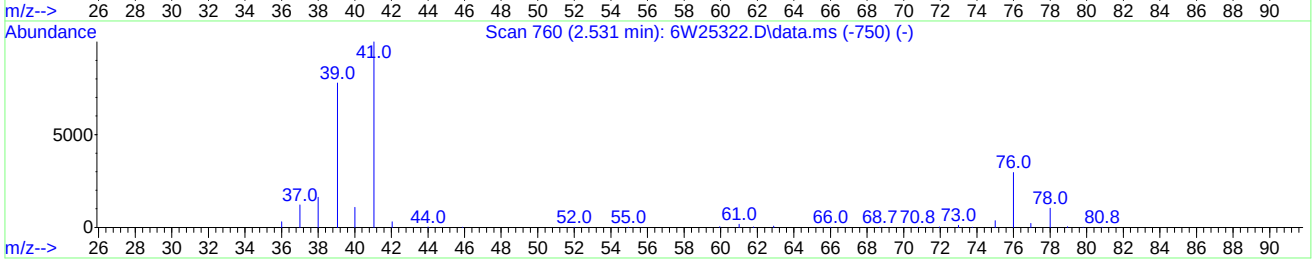
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26014.D
Acq On : 15 Sep 2022 5:22 pm
Operator : thomash
Sample : ic1105-0.04
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:08 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26014.D\data.ms

(32) 3-CHLOROPROPENE (T)

2.467min (+0.003) 0.04PPBV m

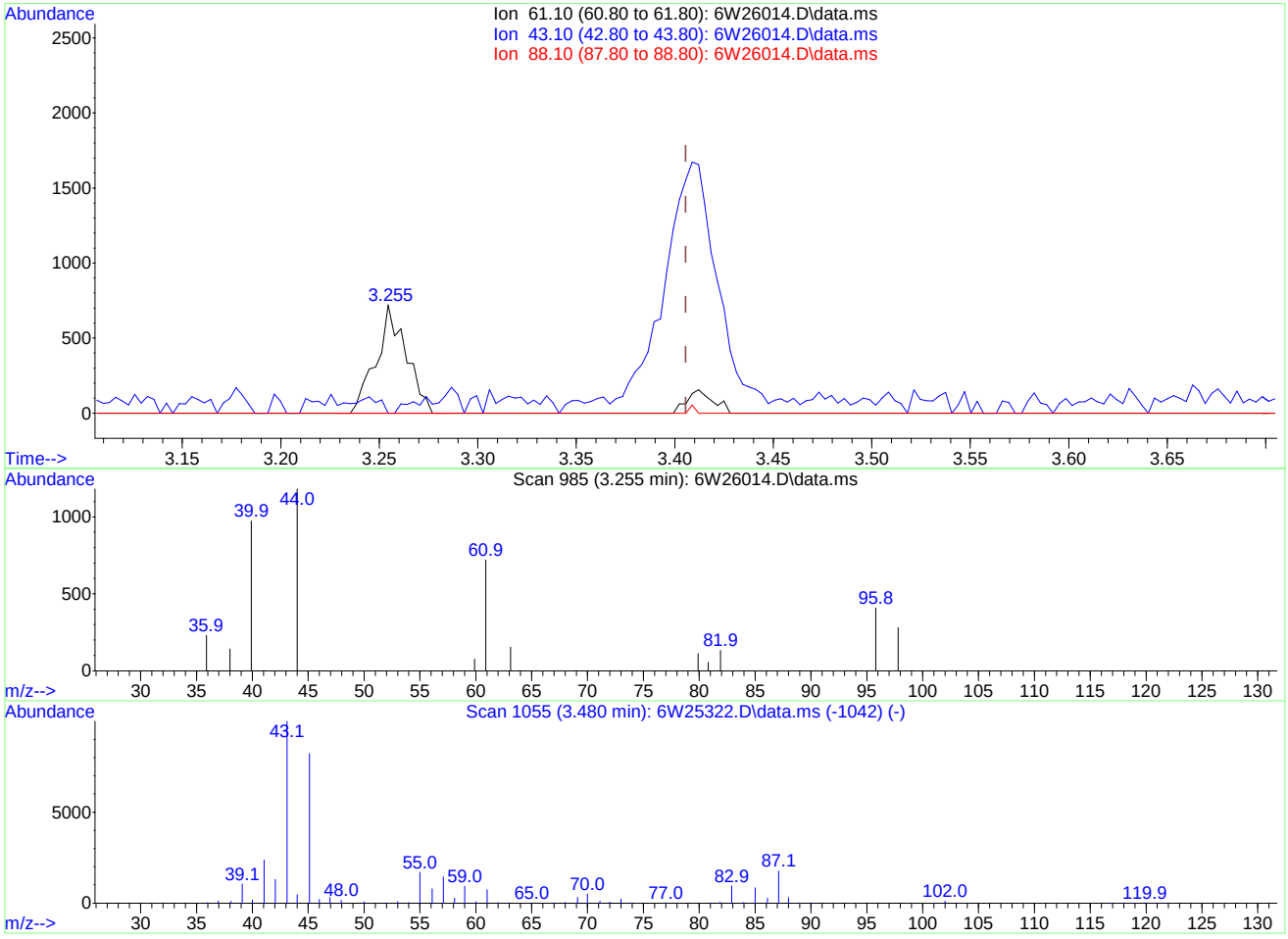
response 188

| Ion | Exp% | Act% |
|---|---|---|
| 76.00 | 100 | 100 |
| 41.10 | 184.90 | 0.00# |
| 39.10 | 118.20 | 0.00# |
| 78.00 | 32.40 | 0.00# |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26014.D
Acq On : 15 Sep 2022 5:22 pm
Operator : thomash
Sample : ic1105-0.04
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:08 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26014.D\data.ms

(44) ETHYL ACETATE (T)

3.255min (-0.151) 0.32PPBV

response 760

| Ion | Exp% | Act% |
|---|---|---|
| 61.10 | 100 | 100 |
| 43.10 | 1232.70 | 0.00# |
| 88.10 | 48.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |





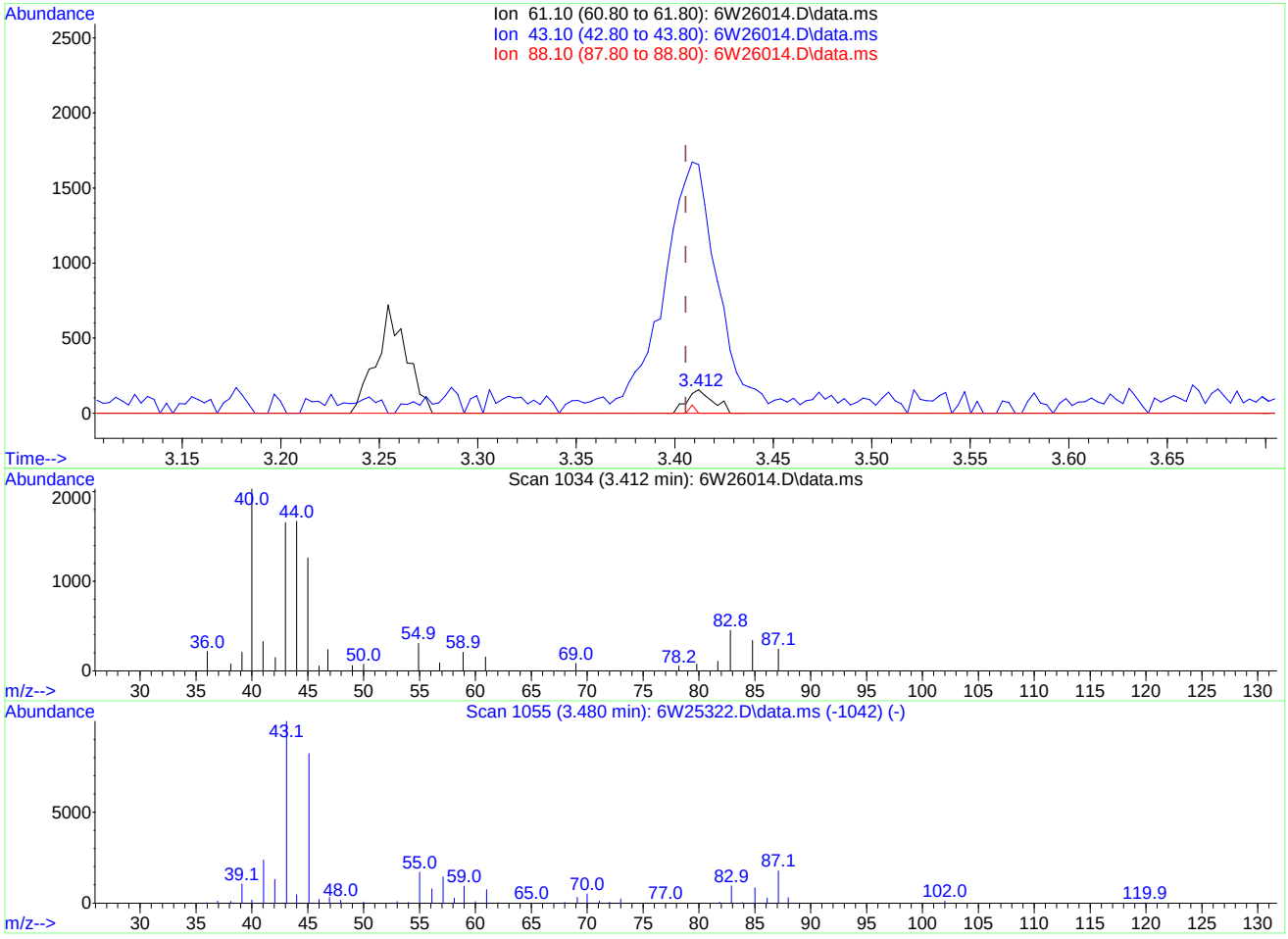


6W26014.D edits: ETHYL ACETATE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26014.D
Acq On : 15 Sep 2022 5:22 pm
Operator : thomash
Sample : ic1105-0.04
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:08 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26014.D\data.ms

(44) ETHYL ACETATE (T)

3.412min (+0.006) 0.06PPBV m

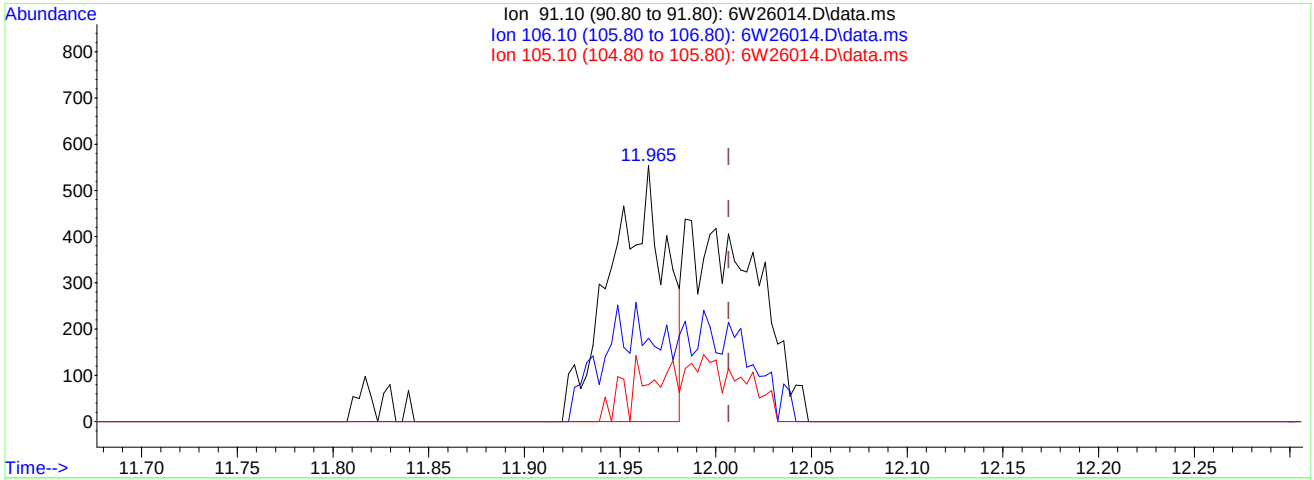
response 143

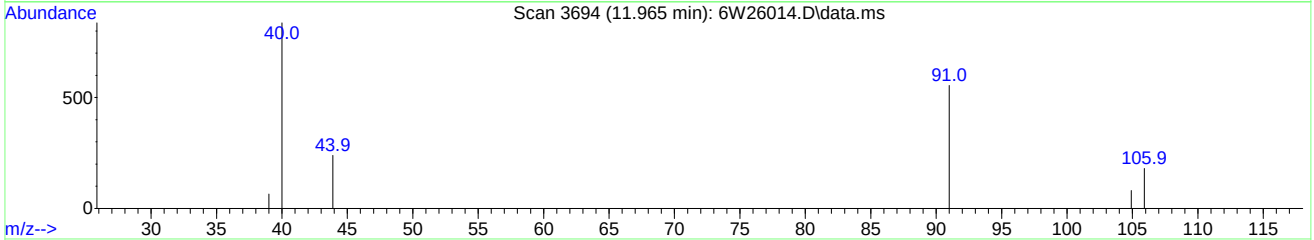
| Ion | Exp% | Act% |
|---|---|---|
| 61.10 | 100 | 100 |
| 43.10 | 1232.70 | 0.00# |
| 88.10 | 48.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |

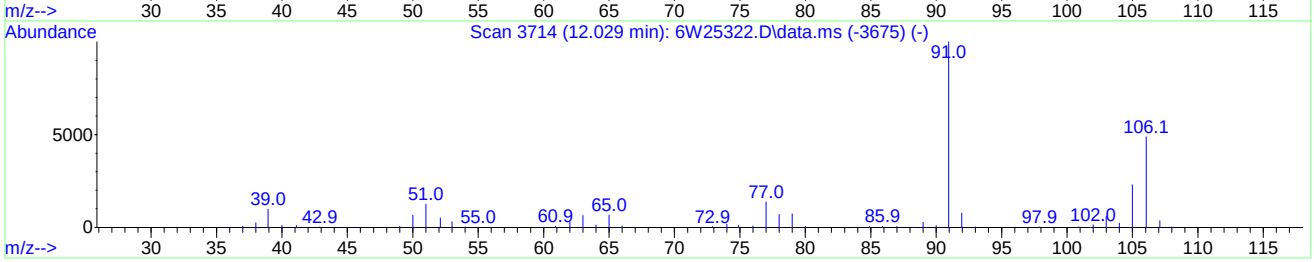
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26014.D
Acq On : 15 Sep 2022 5:22 pm
Operator : thomash
Sample : ic1105-0.04
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:08 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26014.D\data.ms

(80) M,P-XYLENE (t)

11.965min (-0.042) 0.05PPBV

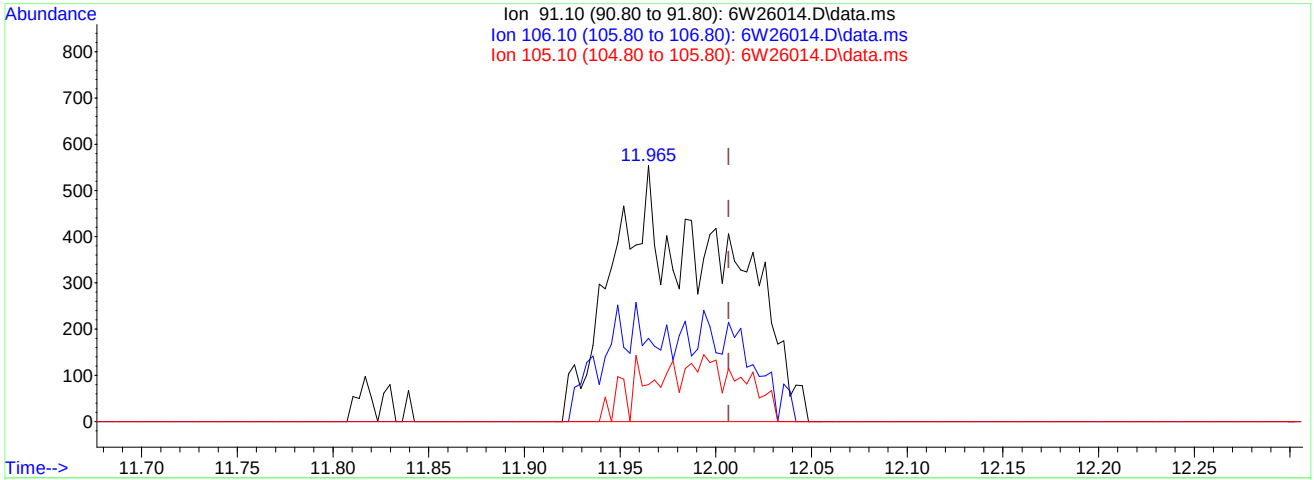
response 1104

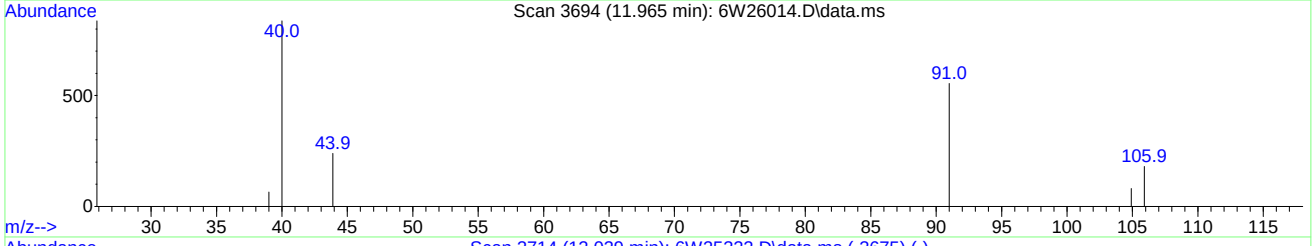
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 0.00# |
| 105.10 | 23.60 | 0.00# |
| 0.00 | 0.00 | 0.00 |

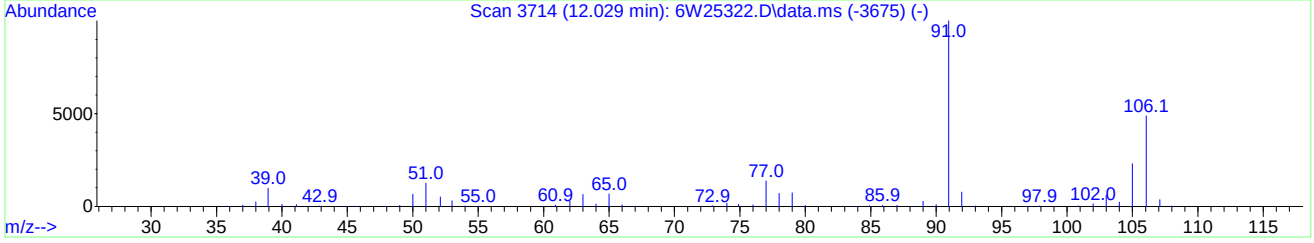
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26014.D
Acq On : 15 Sep 2022 5:22 pm
Operator : thomash
Sample : ic1105-0.04
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:08 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26014.D\data.ms

(80) M,P-XYLENE (t)

11.965min (-0.042) 0.10PPBV m

response 2223

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 0.00# |
| 105.10 | 23.60 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/21/22 13:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:05:12 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 40449 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.733 | 114 | 223013 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.588 | 117 | 163472 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.026 | 95 | 114736 | 9.95 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 314m | 0.09 | PPBV | | |
| 4) CHLORODIFLUOROMETHANE | 1.708 | 67 | 158m | 0.10 | PPBV | | |
| 5) CHLOROTRIFLUOROETHENE | 1.717 | 116 | 648 | 0.08 | PPBV | # | 42 |
| 6) DICHLORODIFLUOROMETHANE | 1.733 | 85 | 2057 | 0.11 | PPBV | # | 88 |
| 7) PROPYLENE | 1.714 | 41 | 527 | 0.10 | PPBV | # | 16 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 1553 | 0.08 | PPBV | # | 1 |
| 9) FREON 114 | 1.798 | 85 | 1681 | 0.08 | PPBV | | 91 |
| 10) CHLOROMETHANE | 1.775 | 52 | 290m | 0.12 | PPBV | | |
| 11) VINYL CHLORIDE | 1.830 | 62 | 773 | 0.09 | PPBV | # | 50 |
| 12) 1,3-BUTADIENE | 1.865 | 54 | 590 | 0.09 | PPBV | # | 5 |
| 13) N-BUTANE | 1.881 | 43 | 1417 | 0.10 | PPBV | # | 65 |
| 14) BROMOMETHANE | 1.936 | 94 | 630 | 0.09 | PPBV | # | 86 |
| 15) CHLOROETHANE | 1.978 | 64 | 450m | 0.09 | PPBV | | |
| 16) DICHLOROFLUOROMETHANE | 2.004 | 67 | 1526 | 0.08 | PPBV | # | 92 |
| 17) ACETONITRILE | 2.065 | 41 | 912 | 0.11 | PPBV | # | 34 |
| 18) ACROLEIN | 2.100 | 56 | 301m | 0.10 | PPBV | | |
| 19) FREON 123 | 2.116 | 83 | 1554 | 0.09 | PPBV | # | 84 |
| 20) FREON 123A | 2.132 | 117 | 760 | 0.08 | PPBV | # | 62 |
| 21) TRICHLOROFLUOROMETHANE | 2.190 | 101 | 1643 | 0.08 | PPBV | # | 96 |
| 22) ISOPROPYL ALCOHOL | 2.213 | 45 | 2169 | 0.12 | PPBV | # | 74 |
| 23) ACETONE | 2.139 | 58 | 483m | 0.09 | PPBV | | |
| 24) PENTANE | 2.299 | 42 | 990 | 0.10 | PPBV | # | 83 |
| 25) IODOMETHANE | 2.357 | 142 | 1436 | 0.08 | PPBV | | 89 |
| 26) 1,1-DICHLOROETHYLENE | 2.386 | 96 | 617 | 0.08 | PPBV | # | 45 |
| 27) CARBON DISULFIDE | 2.518 | 76 | 1998 | 0.08 | PPBV | # | 49 |
| 28) ETHANOL | 2.010 | 45 | 519 | 0.12 | PPBV | # | 40 |
| 29) BROMOETHENE | 2.071 | 106 | 562 | 0.08 | PPBV | # | 9 |
| 30) ACRYLONITRILE | 2.270 | 52 | 609 | 0.09 | PPBV | # | 75 |
| 32) 3-CHLOROPROPENE | 2.463 | 76 | 278m | 0.07 | PPBV | | |
| 33) FREON 113 | 2.518 | 151 | 927 | 0.08 | PPBV | # | 84 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.772 | 96 | 712 | 0.08 | PPBV | # | 57 |
| 35) TERTIARY BUTYL ALCOHOL | 2.405 | 59 | 1299 | 0.06 | PPBV | # | 57 |
| 36) METHYL TERTIARY BUTYL ... | 2.894 | 73 | 1720 | 0.07 | PPBV | # | 88 |
| 37) TETRAHYDROFURAN | 3.663 | 72 | 296m | 0.10 | PPBV | | |
| 38) HEXANE | 3.393 | 57 | 1281 | 0.11 | PPBV | # | 61 |
| 39) VINYL ACETATE | 2.930 | 86 | 156m | 0.08 | PPBV | | |
| 40) 1,1-DICHLOROETHANE | 2.852 | 63 | 1298 | 0.08 | PPBV | # | 50 |
| 41) METHYL ETHYL KETONE | 3.042 | 72 | 313m | 0.08 | PPBV | | |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 664 | 0.10 | PPBV | # | 52 |
| 43) DIISOPROPYL ETHER | 3.402 | 59 | 373m | 0.11 | PPBV | | |
| 44) ETHYL ACETATE | 3.402 | 61 | 221m | 0.10 | PPBV | | |
| 45) METHYL ACRYLATE | 3.393 | 55 | 1631 | 0.11 | PPBV | # | 65 |
| 46) CHLOROFORM | 3.422 | 83 | 1579 | 0.11 | PPBV | # | 85 |
| 47) 2,4-DIMETHYLPENTANE | 3.955 | 57 | 1536 | 0.11 | PPBV | # | 79 |
| 48) 1,1,1-TRICHLOROETHANE | 4.045 | 97 | 1322 | 0.09 | PPBV | # | 88 |
| 49) CARBON TETRACHLORIDE | 4.492 | 117 | 1157 | 0.08 | PPBV | # | 76 |
| 50) 1,2-DICHLOROETHANE | 3.865 | 62 | 1065 | 0.10 | PPBV | # | 49 |
| 51) BENZENE | 4.376 | 78 | 2107 | 0.10 | PPBV | # | 69 |
| 53) CYCLOHEXANE | 4.605 | 84 | 923 | 0.10 | PPBV | # | 68 |
| 54) 2,3-DIMETHYLPENTANE | 4.862 | 71 | 516 | 0.11 | PPBV | # | 76 |
| 55) TRICHLOROETHENE | 5.347 | 95 | 709 | 0.07 | PPBV | # | 75 |
| 56) 1,2-DICHLOROPROPANE | 5.100 | 63 | 911 | 0.11 | PPBV | # | 41 |
| 57) DIBROMOMETHANE | 5.058 | 174 | 867 | 0.10 | PPBV | # | 62 |
| 58) ETHYL ACRYLATE | 5.241 | 55 | 1406 | 0.08 | PPBV | # | 73 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:05:12 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration

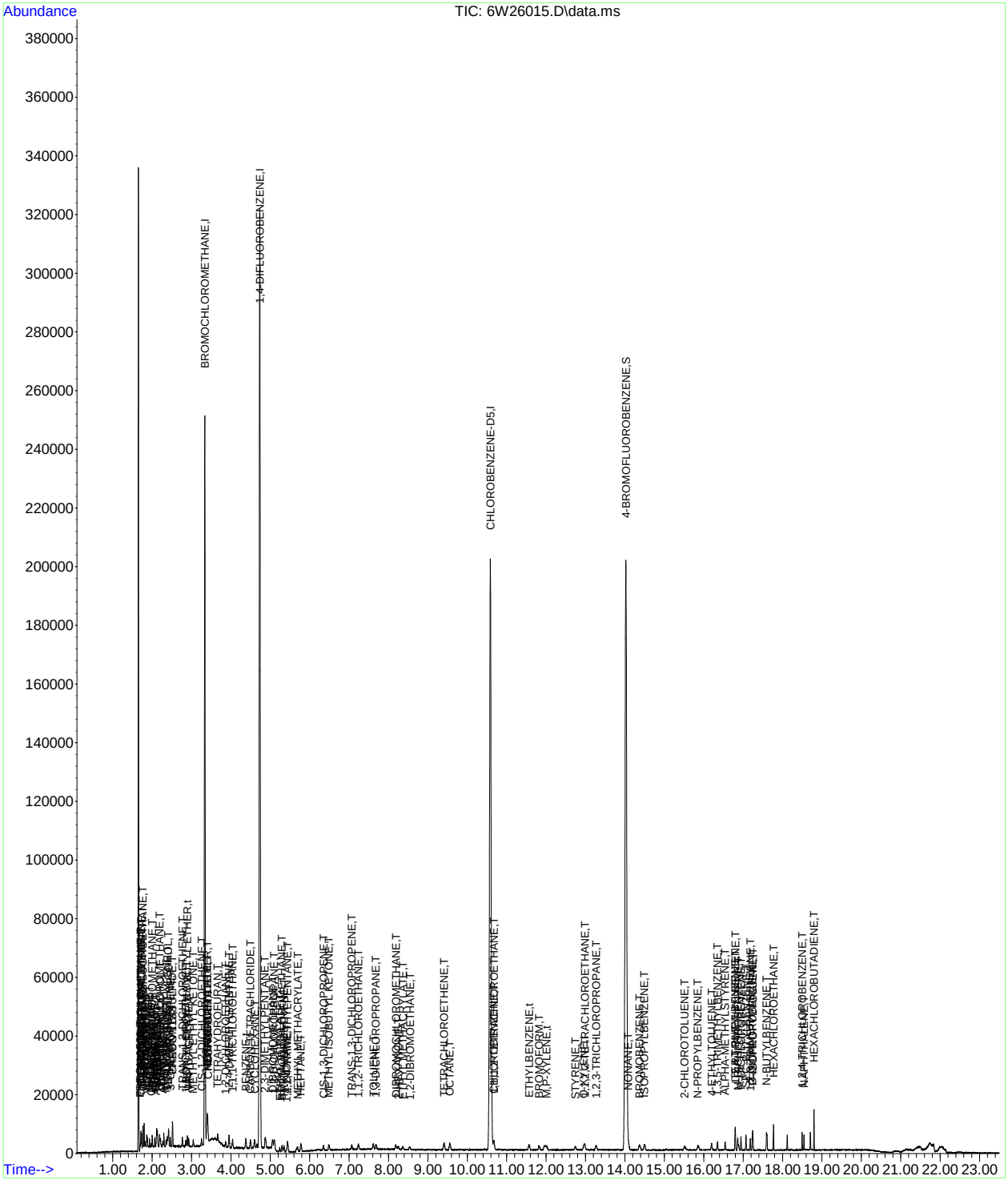
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 59) | BROMODICHLOROMETHANE | 5.293 | 83 | 1463 | 0.09 | PPBV | | 89 |
| 60) | 2,2,4-TRIMETHYLPENTANE | 5.438 | 57 | 3040 | 0.08 | PPBV | # | 96 |
| 61) | 1,4-DIOXANE | 5.412 | 88 | 346m | 0.08 | PPBV | | |
| 62) | HEPTANE | 5.772 | 43 | 1147 | 0.08 | PPBV | # | 44 |
| 63) | METHYL METHACRYLATE | 5.695 | 69 | 508 | 0.07 | PPBV | # | 12 |
| 64) | METHYL ISOBUTYL KETONE | 6.482 | 58 | 477m | 0.07 | PPBV | | |
| 65) | CIS-1,3-DICHLOROPROPENE | 6.351 | 75 | 953 | 0.08 | PPBV | # | 39 |
| 66) | TOLUENE | 7.617 | 91 | 1832 | 0.07 | PPBV | | 94 |
| 67) | 1,3-DICHLOROPROPANE | 7.675 | 76 | 1112 | 0.08 | PPBV | # | 49 |
| 68) | TRANS-1,3-DICHLOROPROPENE | 7.064 | 75 | 901 | 0.08 | PPBV | # | 38 |
| 69) | 1,1,2-TRICHLOROETHANE | 7.235 | 83 | 619 | 0.08 | PPBV | # | 70 |
| 70) | 2-HEXANONE | 8.244 | 58 | 590 | 0.08 | PPBV | # | 48 |
| 71) | ETHYL METHACRYLATE | 8.367 | 69 | 791 | 0.07 | PPBV | # | 49 |
| 72) | TETRACHLOROETHENE | 9.408 | 164 | 792 | 0.08 | PPBV | # | 78 |
| 73) | DIBROMOCHLOROMETHANE | 8.187 | 129 | 1213 | 0.08 | PPBV | # | 84 |
| 74) | 1,2-DIBROMOETHANE | 8.547 | 107 | 1148 | 0.08 | PPBV | # | 91 |
| 75) | OCTANE | 9.547 | 43 | 1407 | 0.07 | PPBV | # | 47 |
| 77) | 1,1,1,2-TETRACHLOROETHANE | 10.675 | 131 | 755m | 0.08 | PPBV | | |
| 78) | CHLOROBENZENE | 10.669 | 112 | 1636 | 0.09 | PPBV | # | 75 |
| 79) | ETHYLBENZENE | 11.572 | 91 | 2206 | 0.08 | PPBV | | 91 |
| 80) | M,P-XYLENE | 12.006 | 91 | 3142m | 0.14 | PPBV | | |
| 81) | O-XYLENE | 12.948 | 91 | 1657 | 0.07 | PPBV | # | 79 |
| 82) | STYRENE | 12.746 | 104 | 1126 | 0.07 | PPBV | # | 33 |
| 83) | NONANE | 14.083 | 43 | 1705 | 0.10 | PPBV | # | 45 |
| 84) | BROMOFORM | 11.820 | 173 | 1014 | 0.09 | PPBV | # | 36 |
| 85) | 1,1,2,2-TETRACHLOROETHANE | 12.987 | 83 | 1751 | 0.10 | PPBV | # | 91 |
| 86) | 1,2,3-TRICHLOROPROPANE | 13.270 | 75 | 1226 | 0.09 | PPBV | # | 99 |
| 88) | ISOPROPYLBENZENE | 14.489 | 120 | 556 | 0.06 | PPBV | # | 26 |
| 89) | BROMOBENZENE | 14.363 | 77 | 1479 | 0.09 | PPBV | | 88 |
| 90) | 2-CHLOROTOLUENE | 15.517 | 126 | 527 | 0.07 | PPBV | # | 42 |
| 91) | N-PROPYLBENZENE | 15.849 | 120 | 444m | 0.05 | PPBV | | |
| 92) | 4-ETHYLTOLUENE | 16.199 | 105 | 1930 | 0.06 | PPBV | # | 49 |
| 93) | 1,3,5-TRIMETHYLBENZENE | 16.344 | 105 | 1573 | 0.06 | PPBV | # | 92 |
| 94) | ALPHA-METHYLSTYRENE | 16.540 | 118 | 715 | 0.06 | PPBV | # | 68 |
| 95) | TERT-BUTYLBENZENE | 16.797 | 134 | 385m | 0.06 | PPBV | | |
| 96) | 1,2,4-TRIMETHYLBENZENE | 16.804 | 105 | 1604 | 0.06 | PPBV | | 94 |
| 98) | M-DICHLOROBENZENE | 16.861 | 146 | 1430 | 0.07 | PPBV | # | 69 |
| 99) | P-DICHLOROBENZENE | 16.945 | 146 | 1292 | 0.07 | PPBV | # | 70 |
| 100) | O-DICHLOROBENZENE | 17.234 | 146 | 1355 | 0.07 | PPBV | | 96 |
| 101) | SEC-BUTYLBENZENE | 17.074 | 134 | 479m | 0.06 | PPBV | | |
| 102) | 1,2,3-TRIMETHYLBENZENE | 17.183 | 105 | 1627 | 0.06 | PPBV | # | 92 |
| 103) | P-ISOPROPYLTOLUENE | 17.247 | 134 | 456m | 0.05 | PPBV | | |
| 104) | N-BUTYLBENZENE | 17.591 | 134 | 445m | 0.05 | PPBV | | |
| 105) | HEXACHLOROETHANE | 17.771 | 117 | 855 | 0.08 | PPBV | | 92 |
| 106) | HEXACHLOROBUTADIENE | 18.797 | 225 | 1284 | 0.08 | PPBV | | 94 |
| 107) | 1,2,4-TRICHLOROBENZENE | 18.498 | 180 | 918 | 0.05 | PPBV | # | 86 |
| 108) | NAPHTHALENE | 18.543 | 128 | 2105 | 0.04 | PPBV | # | 69 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 08:05:12 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



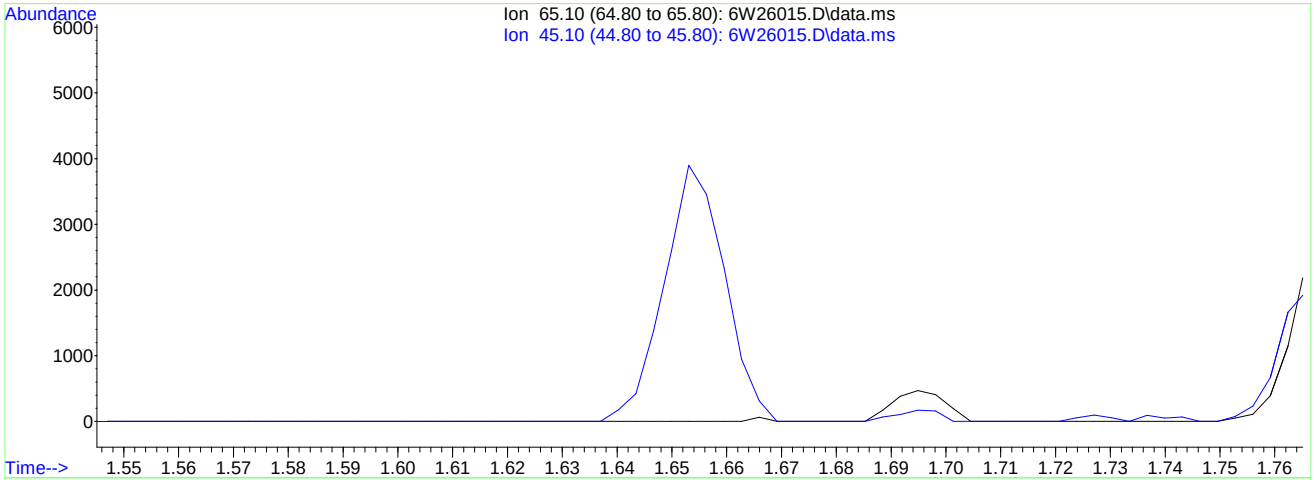
**Sample Number:** V6W1105-IC1105 **Method:** TO-15
**Lab FileID:** 6W26015.D **Analyst approved:** 09/21/22 08:23 Thomas Hilbig
**Injection Time:** 09/15/22 17:55 **Supervisor approved:** 09/21/22 13:59 Kanya Veerawat

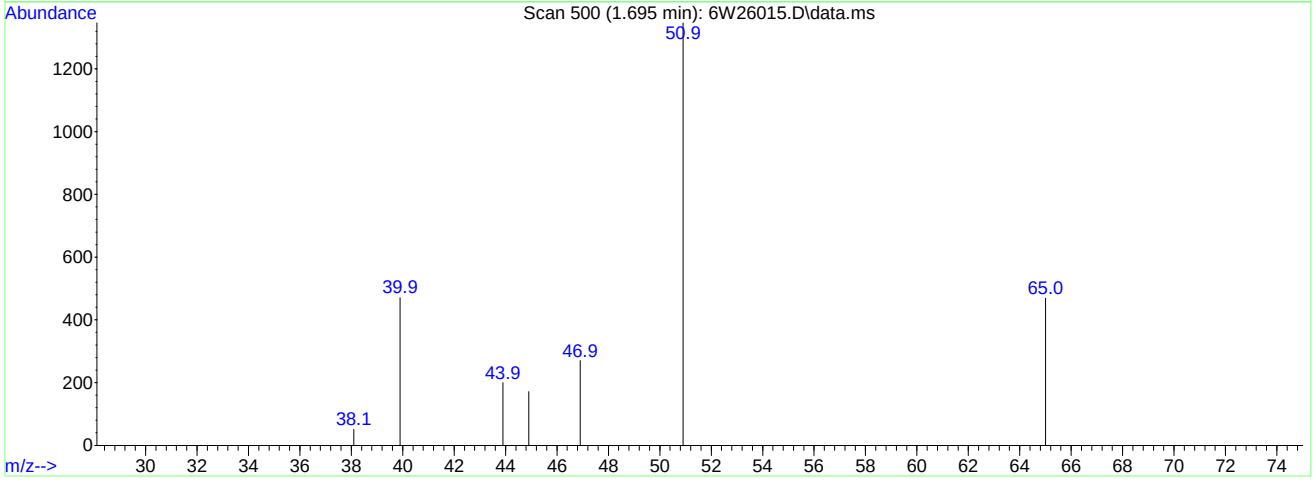
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Freon 152A | 75-37-6 | | 1.69 | Missed peak |
| Chlorodifluoromethane | 75-45-6 | | 1.71 | Missed peak |
| Chloromethane | 74-87-3 | | 1.78 | Missed peak |
| Chloroethane | 75-00-3 | | 1.98 | Missed peak |
| Acrolein | 107-02-8 | | 2.10 | Missed peak |
| Acetone (2-Propanone) | 67-64-1 | | 2.14 | Missed peak |
| 3-Chloropropene | 107-05-1 | | 2.46 | Missed peak |
| Vinyl Acetate | 108-05-4 | | 2.93 | Missed peak |
| Methyl ethyl ketone | 78-93-3 | | 3.04 | Missed peak |
| Di-Isopropyl ether | 108-20-3 | | 3.40 | Missed peak |
| Ethyl Acetate | 141-78-6 | | 3.40 | Missed peak |
| Tetrahydrofuran | 109-99-9 | | 3.66 | Missed peak |
| 1,4-Dioxane | 123-91-1 | | 5.41 | Missed peak |
| Methyl Isobutyl Ketone | 108-10-1 | | 6.48 | Missed peak |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | | 10.68 | Missed peak |
| m,p-Xylene | | | 12.01 | Split peak |
| n-Propylbenzene | 103-65-1 | | 15.85 | Missed peak |
| tert-Butylbenzene | 98-06-6 | | 16.80 | Missed peak |
| sec-Butylbenzene | 135-98-8 | | 17.07 | Missed peak |
| p-Isopropyltoluene | 99-87-6 | | 17.25 | Missed peak |
| n-Butylbenzene | 104-51-8 | | 17.59 | Missed peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(3) FREON 152A (T)

1.695min (-1.695) 0.00PPBV

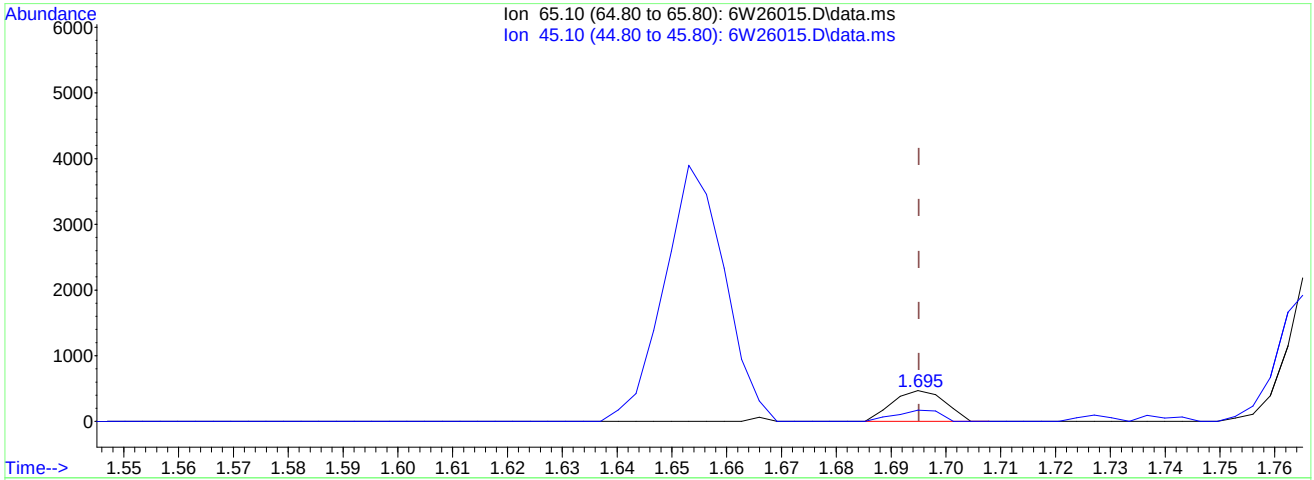
response 0

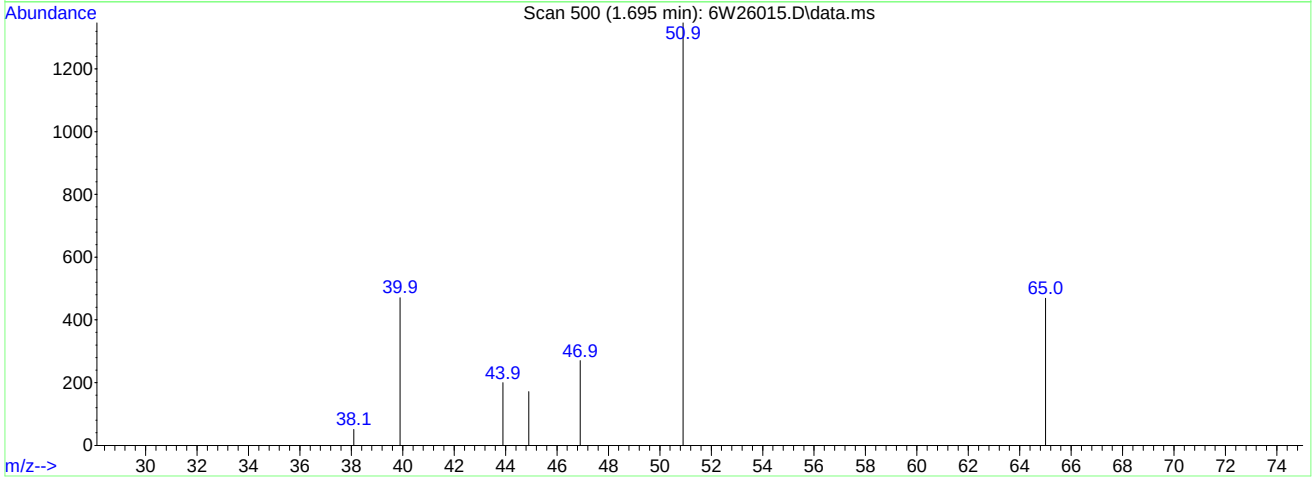
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 0.00 |
| 45.10 | 22.90 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(3) FREON 152A (T)

1.695min (-0.000) 0.09PPBV m

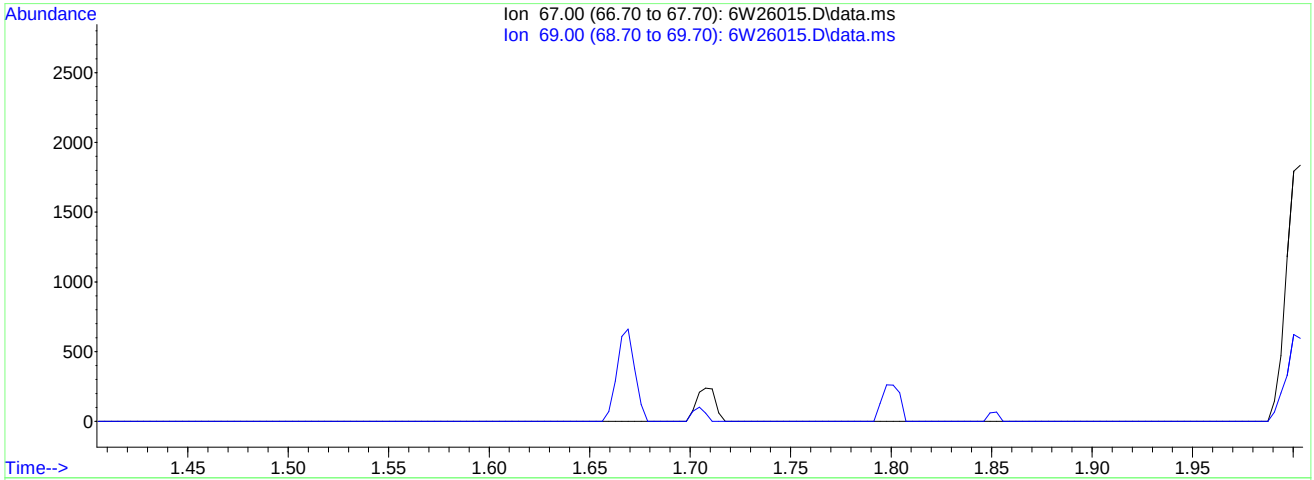
response 314

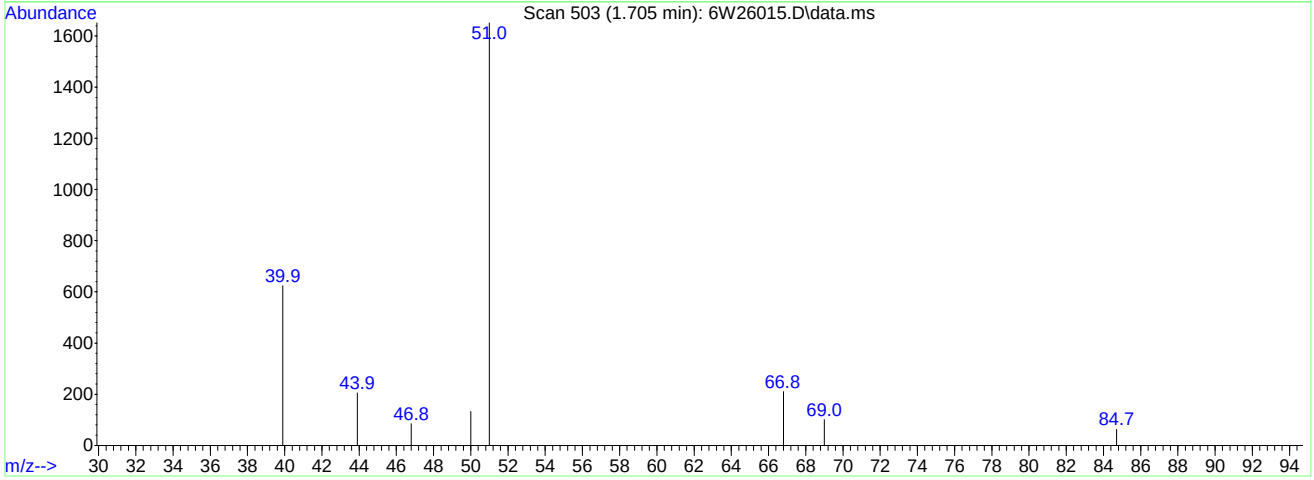
| Ion | Exp% | Act% |
|---|---|---|
| 65.10 | 100 | 100 |
| 45.10 | 22.90 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.705min (-1.705) 0.00PPBV

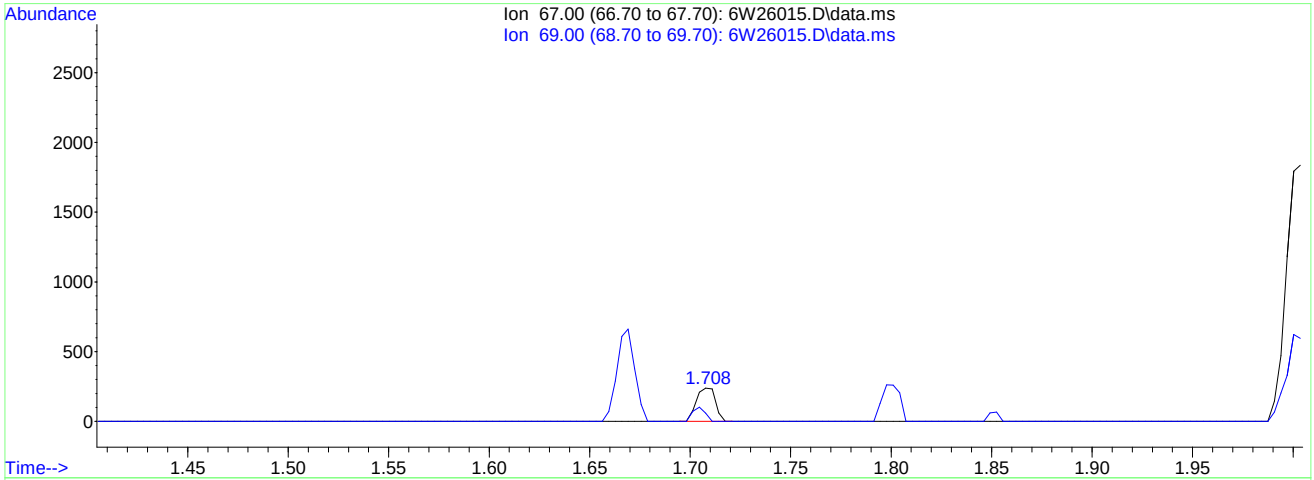
response 0

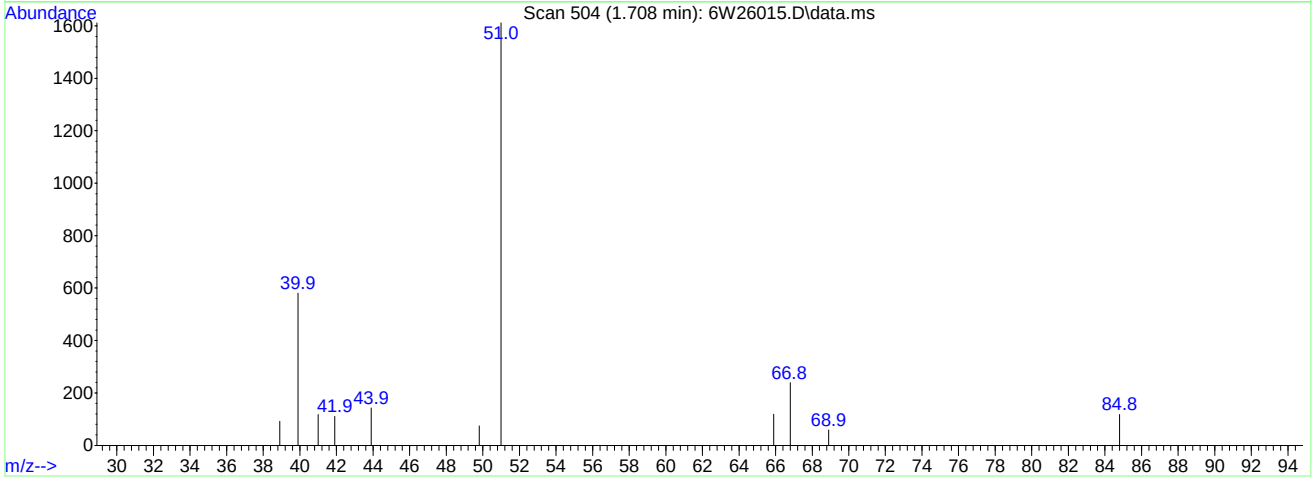
| Ion | Exp% | Act% |
|---|---|---|
| 67.00 | 100 | 0.00 |
| 69.00 | 36.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.708min (+0.003) 0.10PPBV m

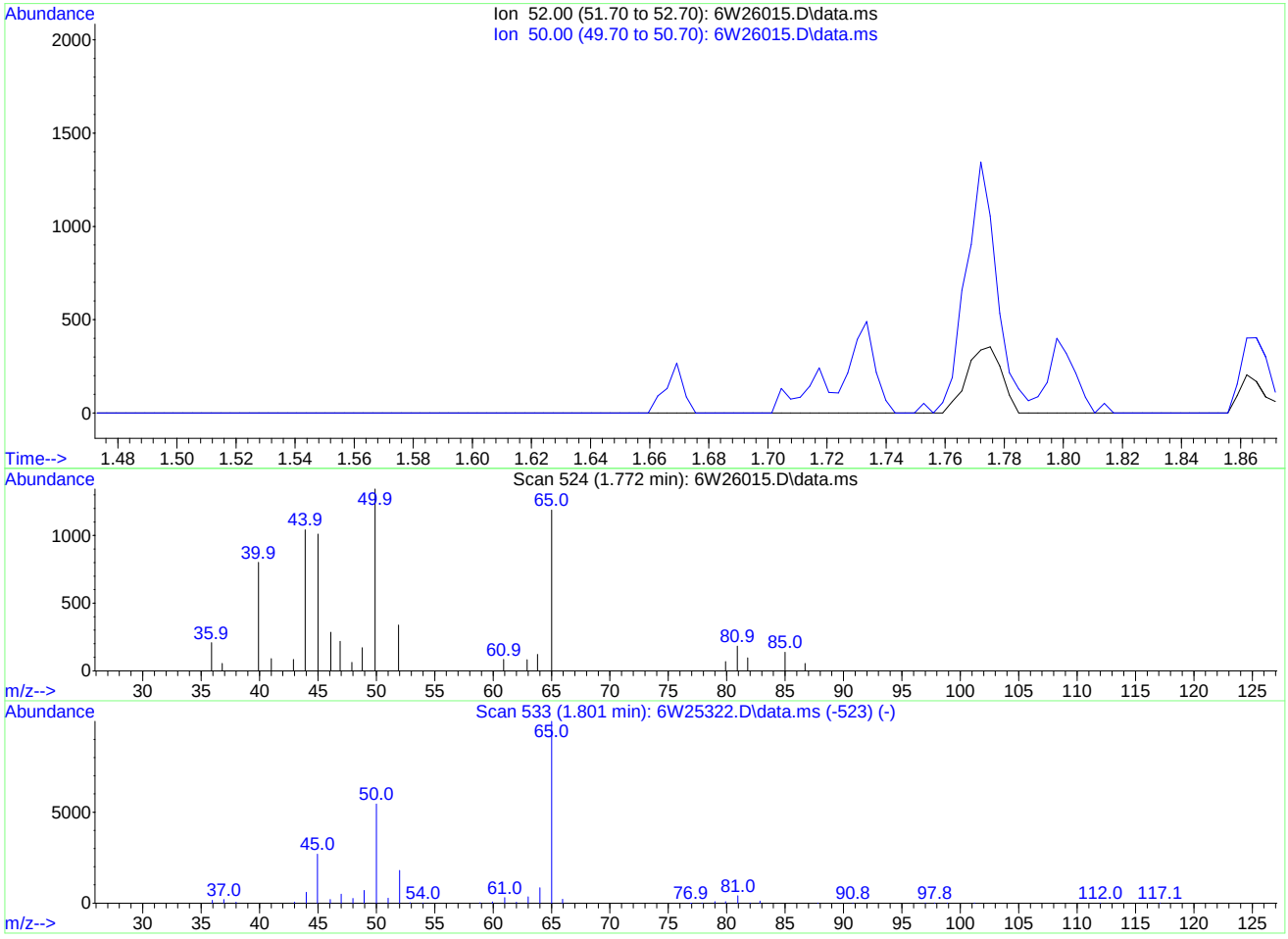
response 158

| Ion | Exp% | Act% |
|---|---|---|
| 67.00 | 100 | 100 |
| 69.00 | 36.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(10) CHLOROMETHANE (T)

1.772min (-1.772) 0.00PPBV

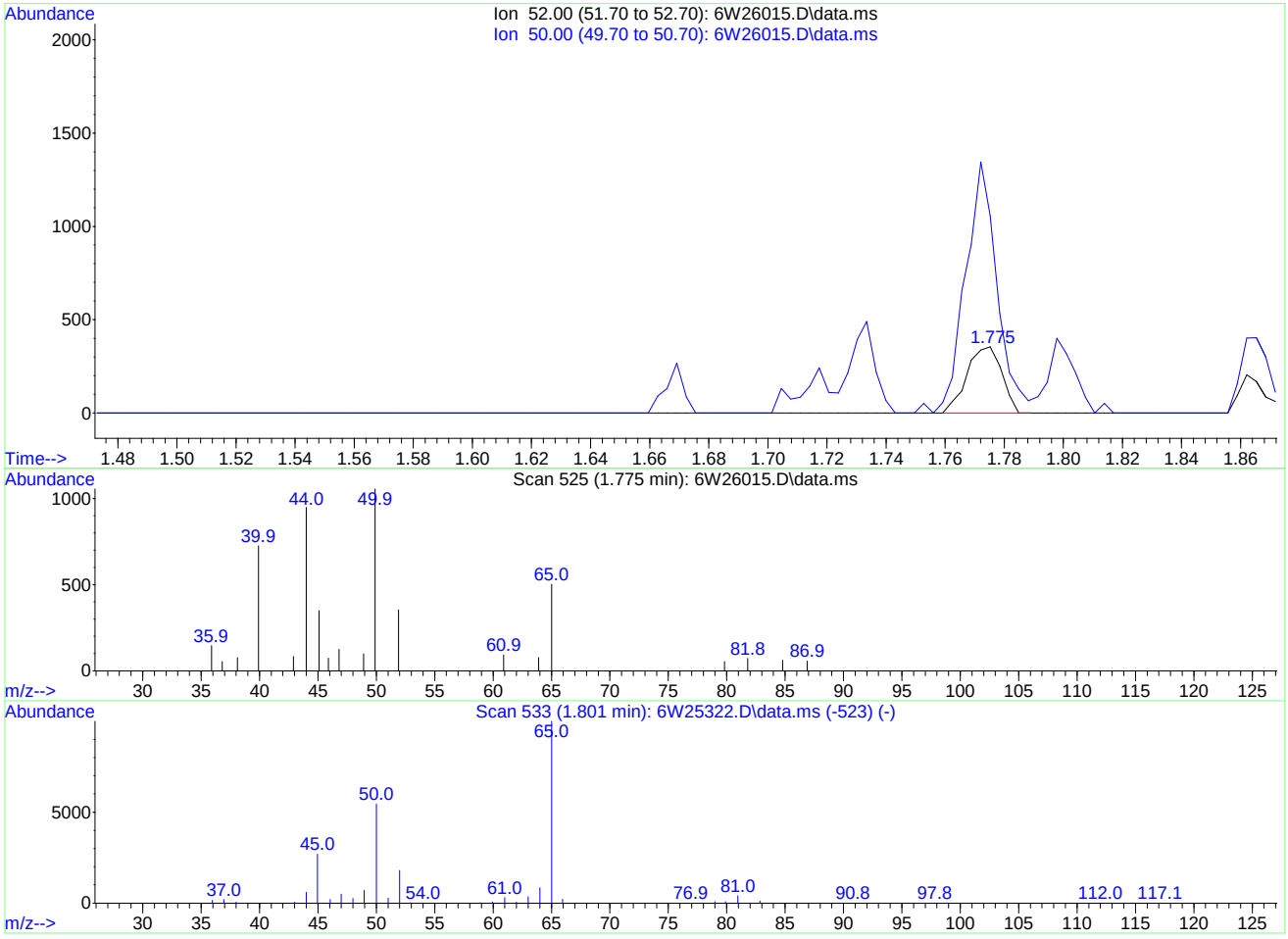
response 0

| Ion | Exp% | Act% |
|---|---|---|
| 52.00 | 100 | 0.00 |
| 50.00 | 310.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(10) CHLOROMETHANE (T)

1.775min (+0.003) 0.12PPBV m

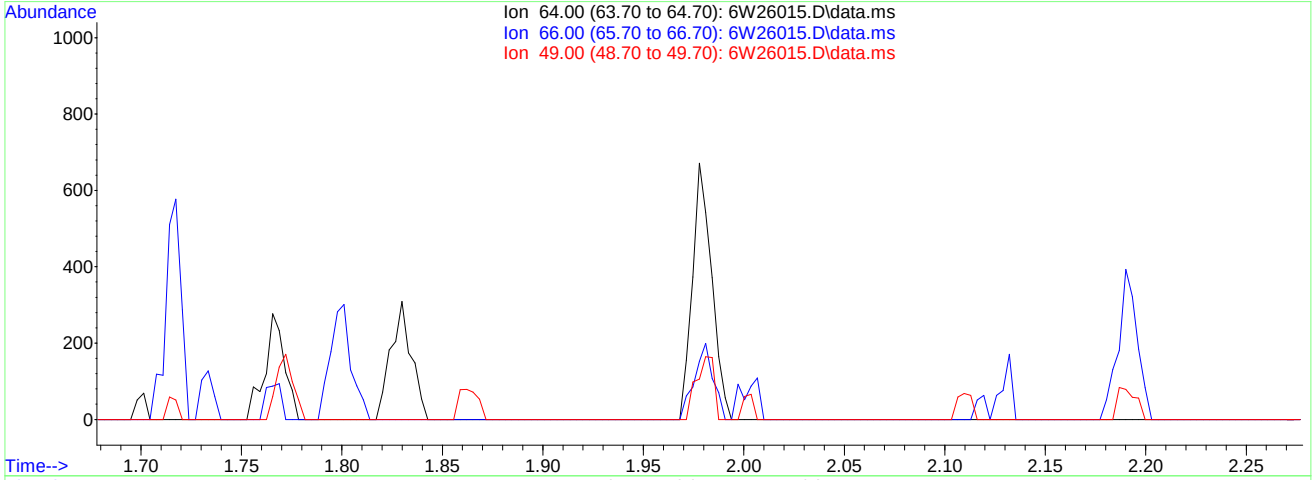
response 290

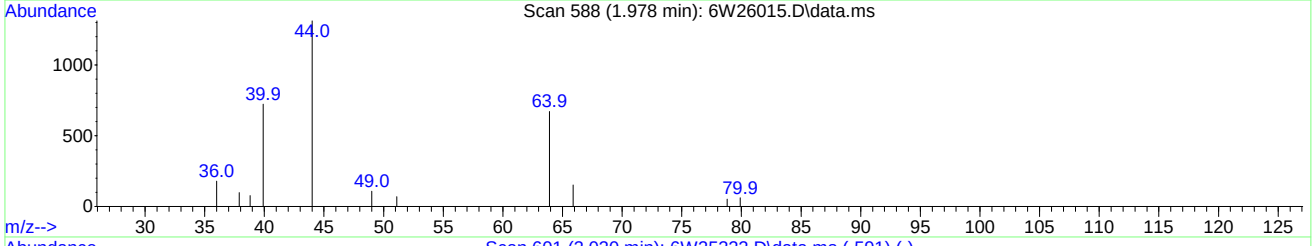
| Ion | Exp% | Act% |
|---|---|---|
| 52.00 | 100 | 100 |
| 50.00 | 310.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

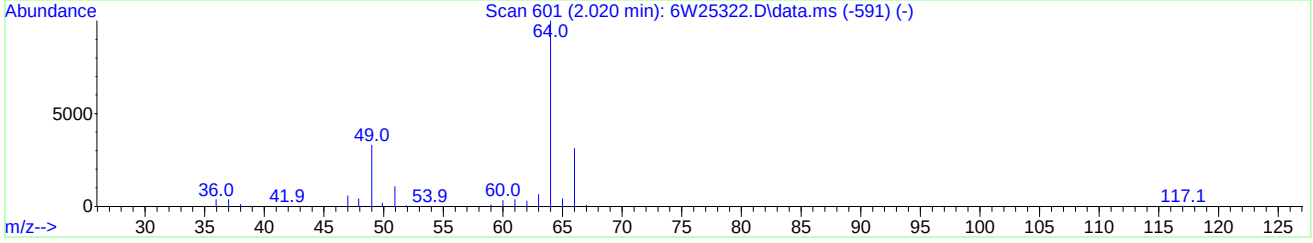
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(15) CHLOROETHANE (T)

1.978min (-1.978) 0.00PPBV

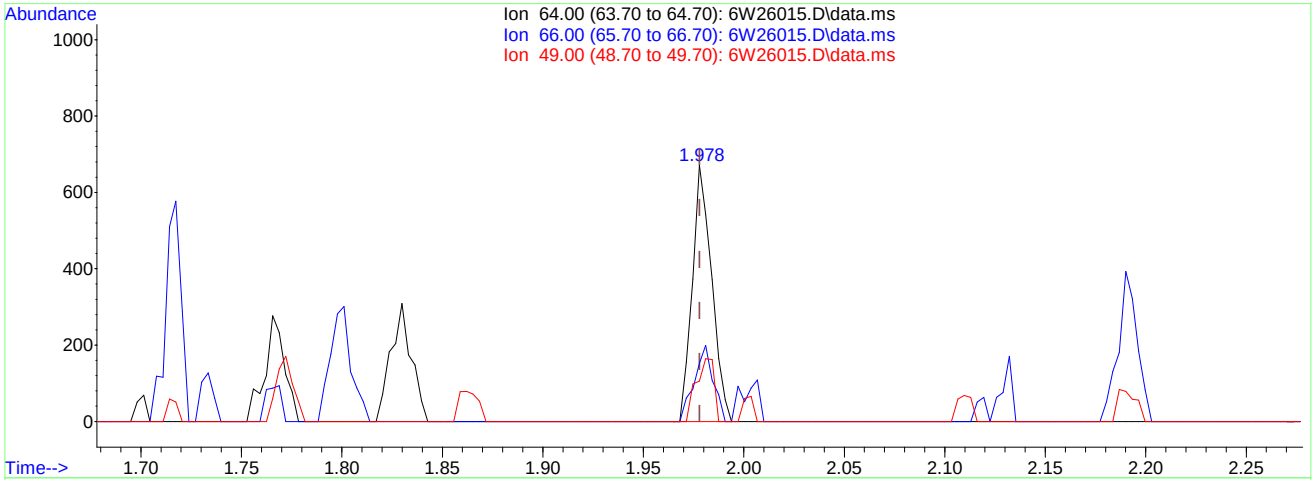
response 0

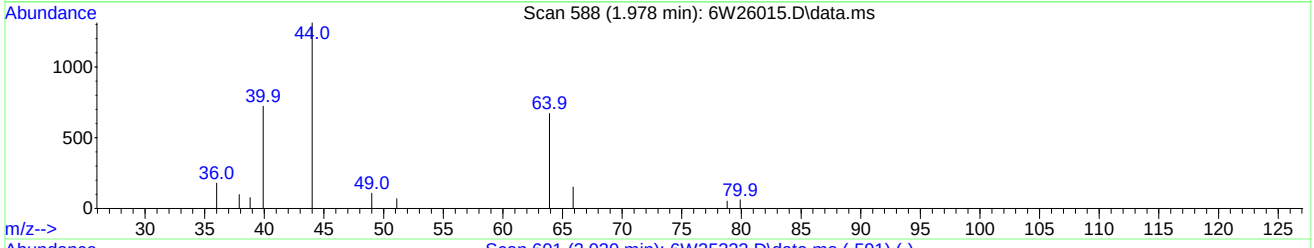
| Ion | Exp% | Act% |
|---|---|---|
| 64.00 | 100 | 0.00 |
| 66.00 | 33.90 | 0.00# |
| 49.00 | 29.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

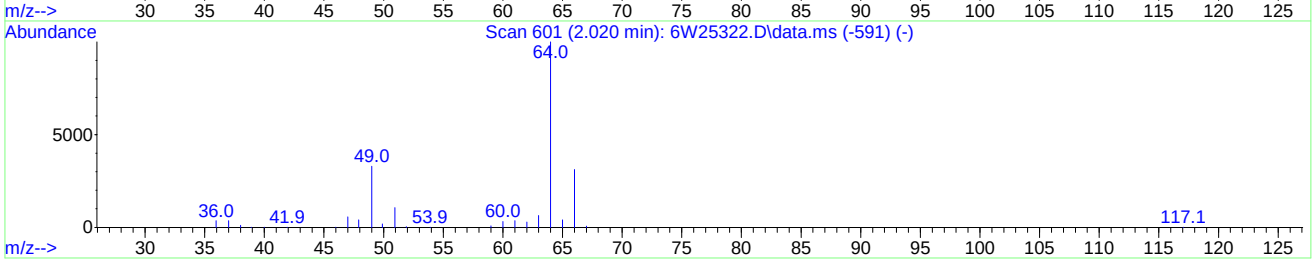
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(15) CHLOROETHANE (T)

1.978min (-0.000) 0.09PPBV m

response 450

| Ion | Exp% | Act% |
|---|---|---|
| 64.00 | 100 | 100 |
| 66.00 | 33.90 | 0.00# |
| 49.00 | 29.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |





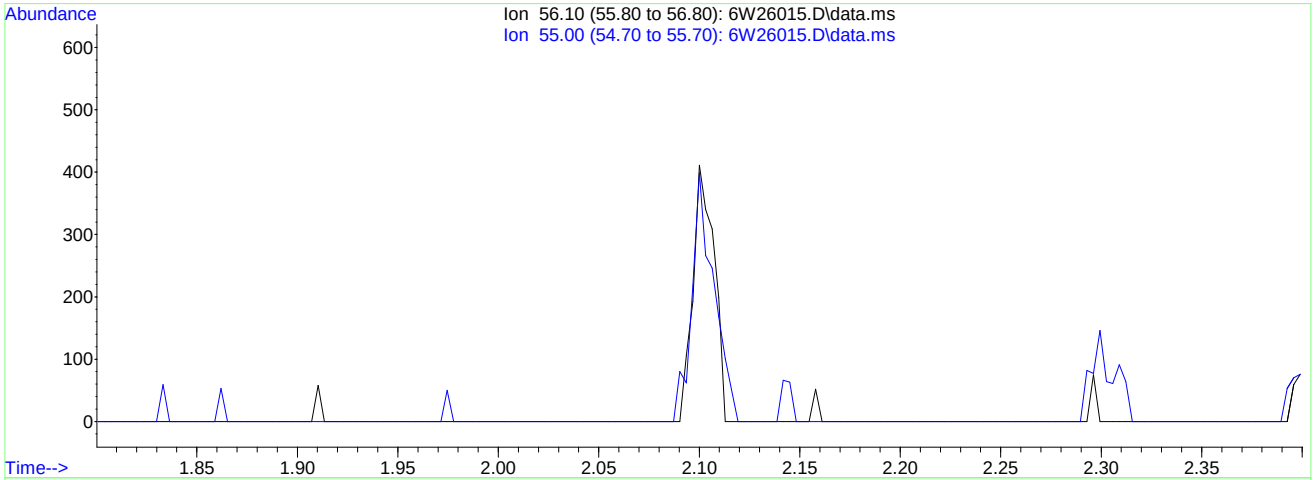


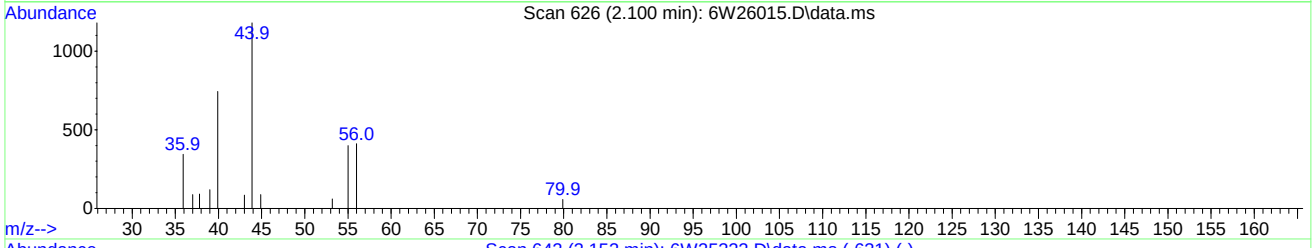
6W26015.D edits: CHLOROETHANE

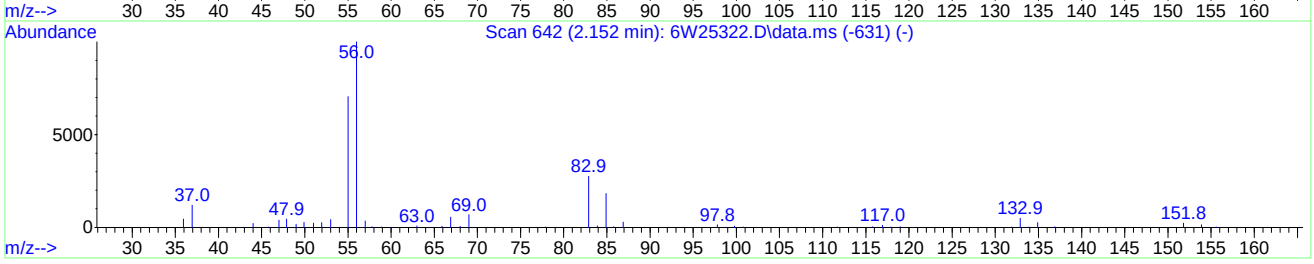
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(18) ACROLEIN (T)

2.100min (-2.100) 0.00PPBV

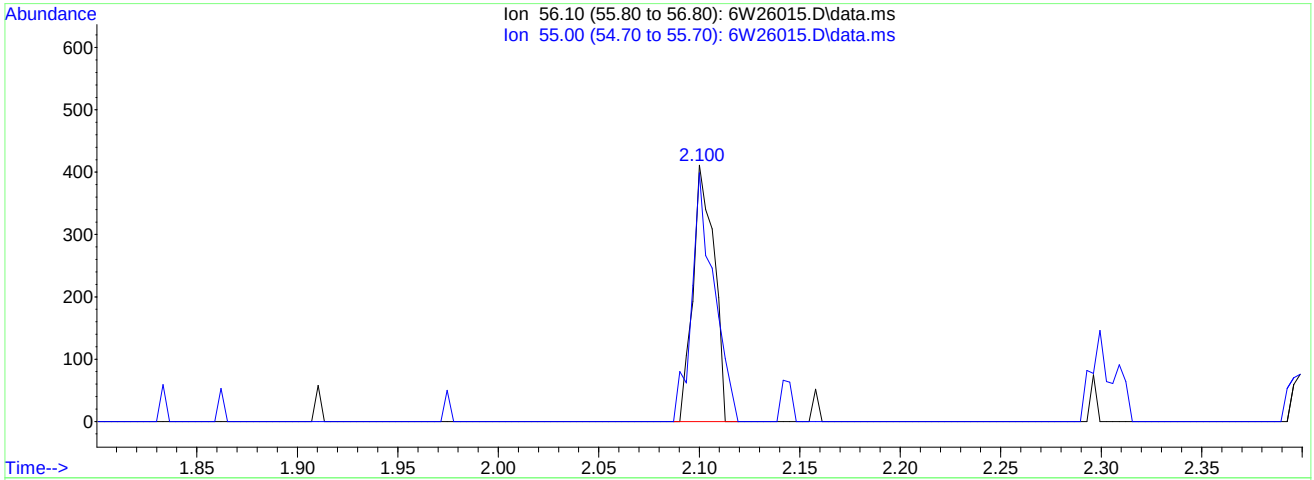
response 0

| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 0.00 |
| 55.00 | 70.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(18) ACROLEIN (T)

2.100min (-0.000) 0.10PPBV m

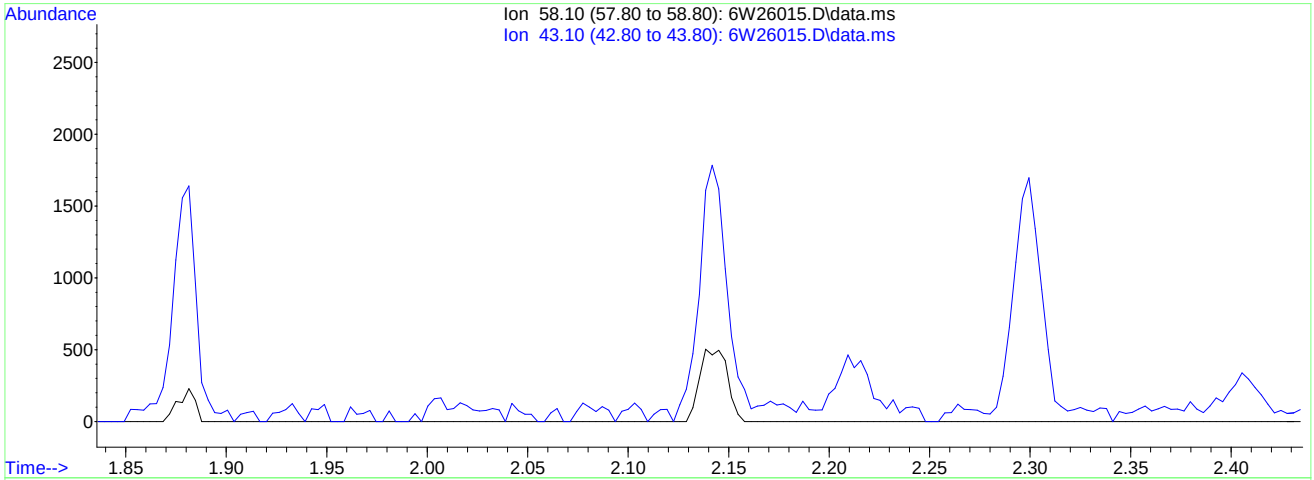
response 301

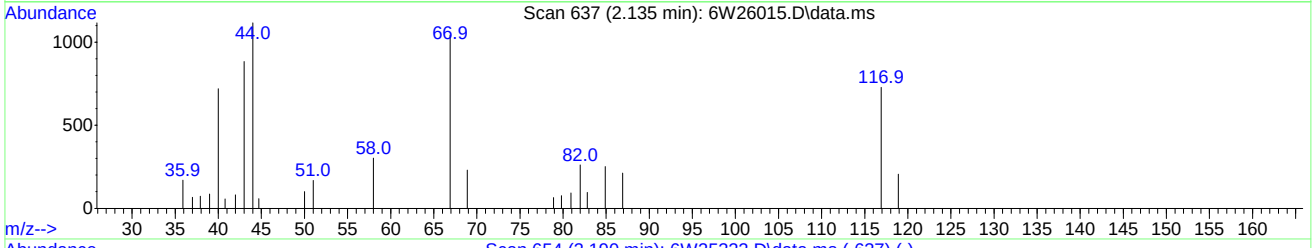
| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 100 |
| 55.00 | 70.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

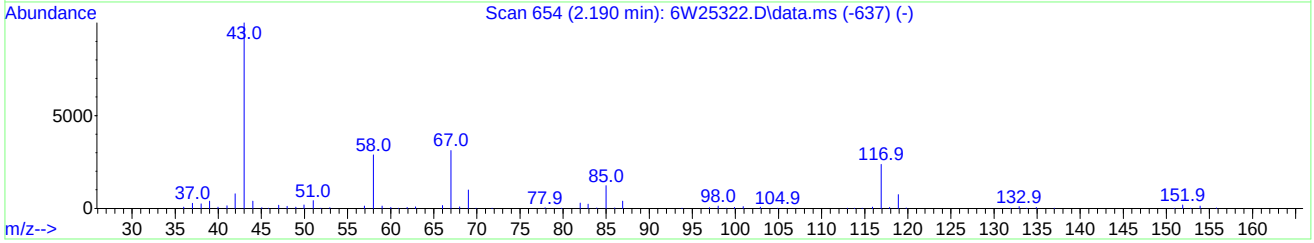
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(23) ACETONE (T)

2.136min (-2.136) 0.00PPBV

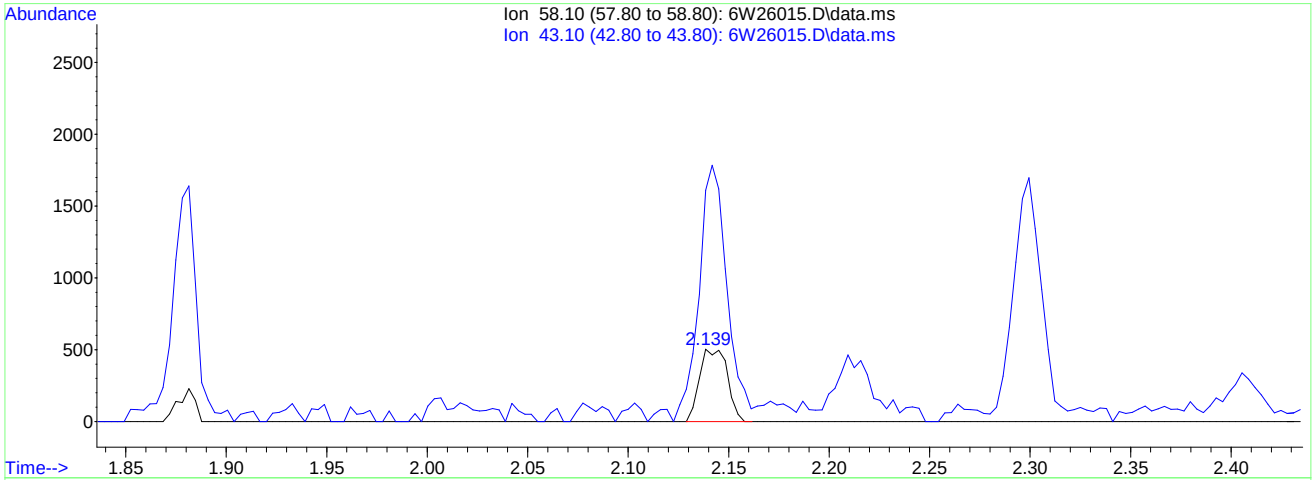
response 0

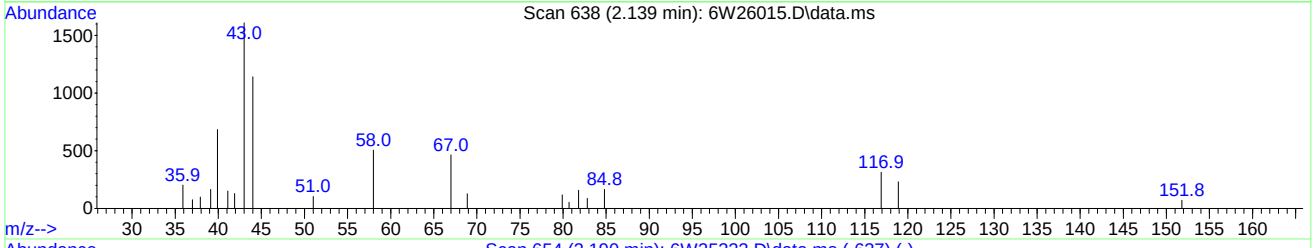
| Ion | Exp% | Act% |
|---|---|---|
| 58.10 | 100 | 0.00 |
| 43.10 | 244.90 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

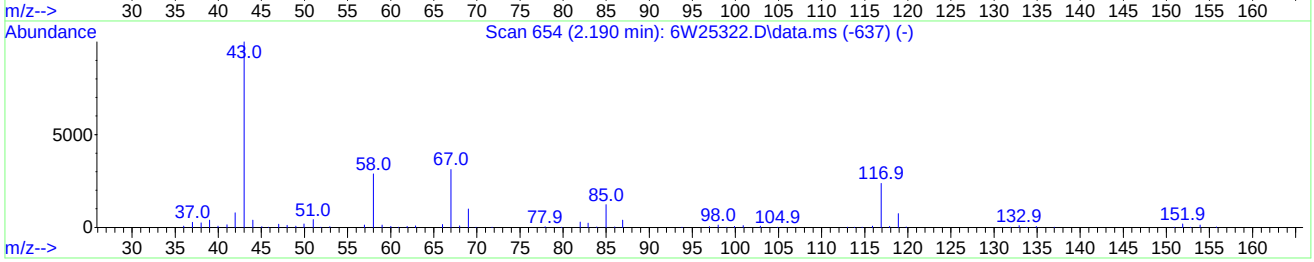
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(23) ACETONE (T)

2.139min (+0.003) 0.09PPBV m

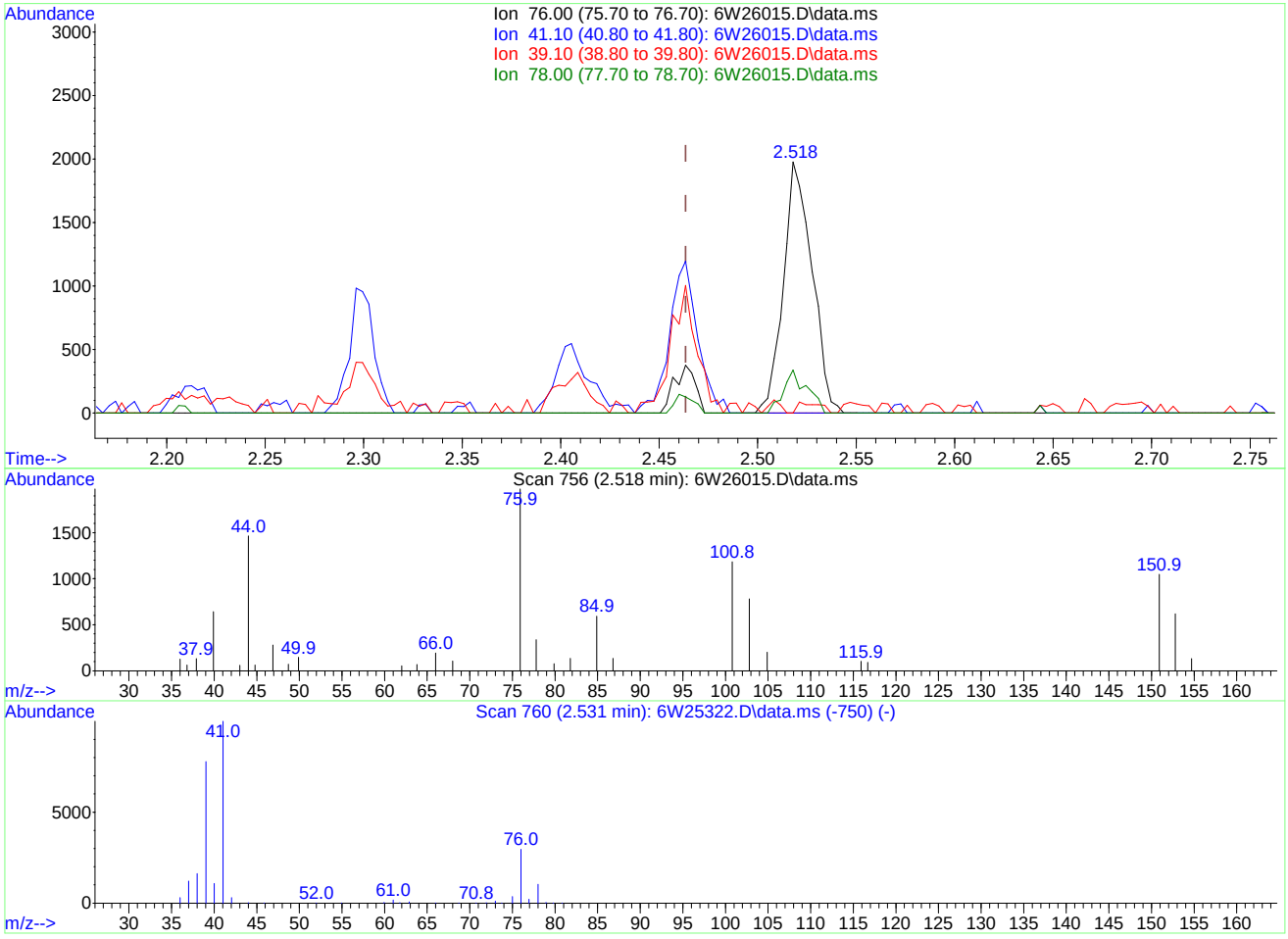
response 483

| Ion | Exp% | Act% |
|---|---|---|
| 58.10 | 100 | 100 |
| 43.10 | 244.90 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(32) 3-CHLOROPROPENE (T)

2.518min (+0.054) 0.48PPBV

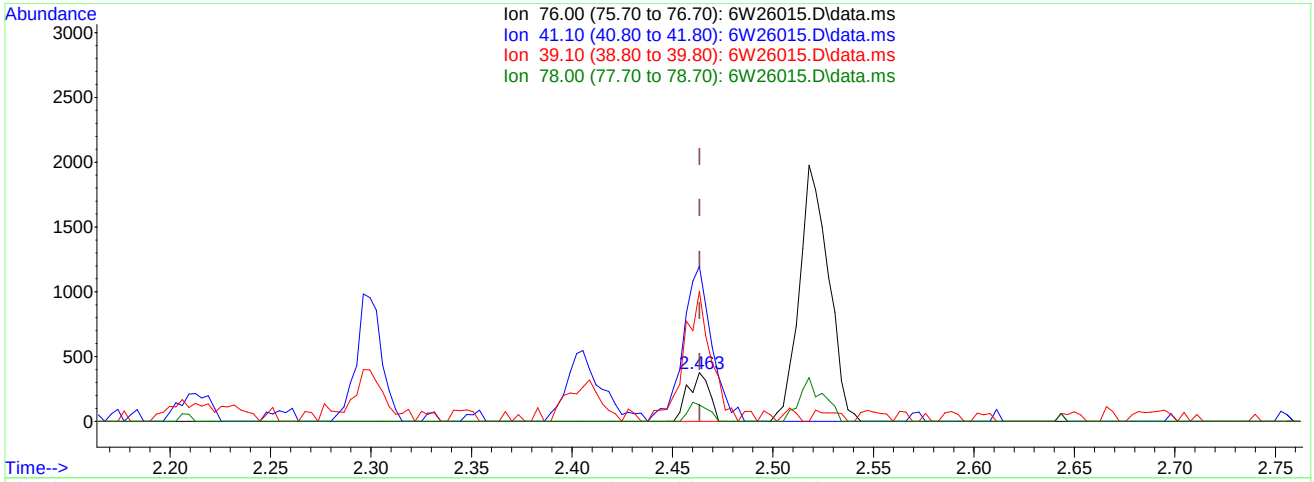
response 1998

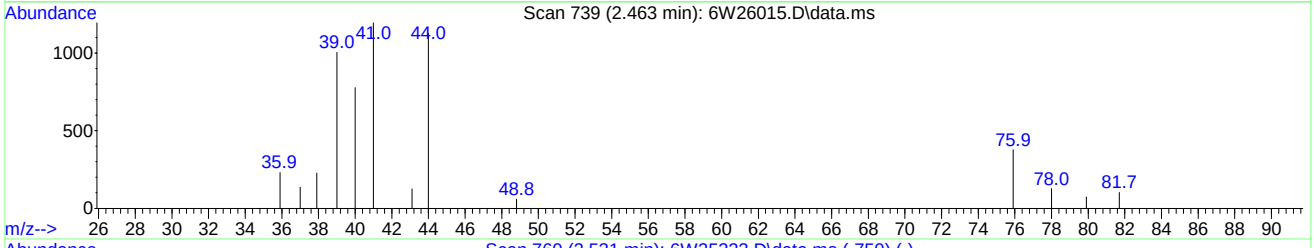
| Ion | Exp% | Act% |
|---|---|---|
| 76.00 | 100 | 100 |
| 41.10 | 184.90 | 0.00# |
| 39.10 | 118.20 | 0.00# |
| 78.00 | 32.40 | 0.00# |

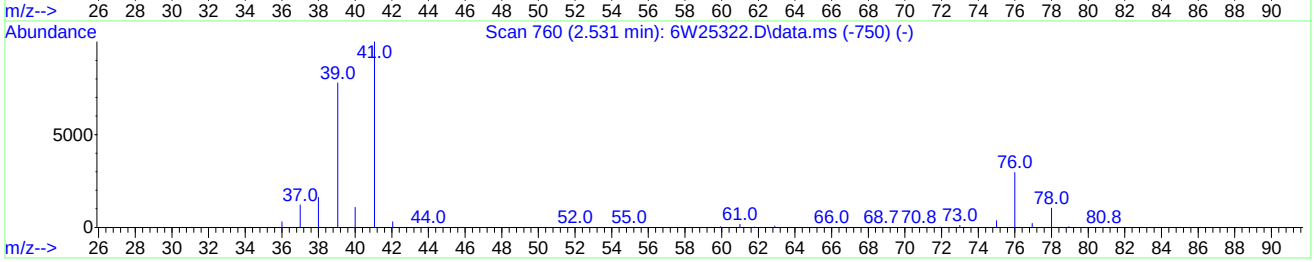
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(32) 3-CHLOROPROPENE (T)

2.463min (-0.000) 0.07PPBV m

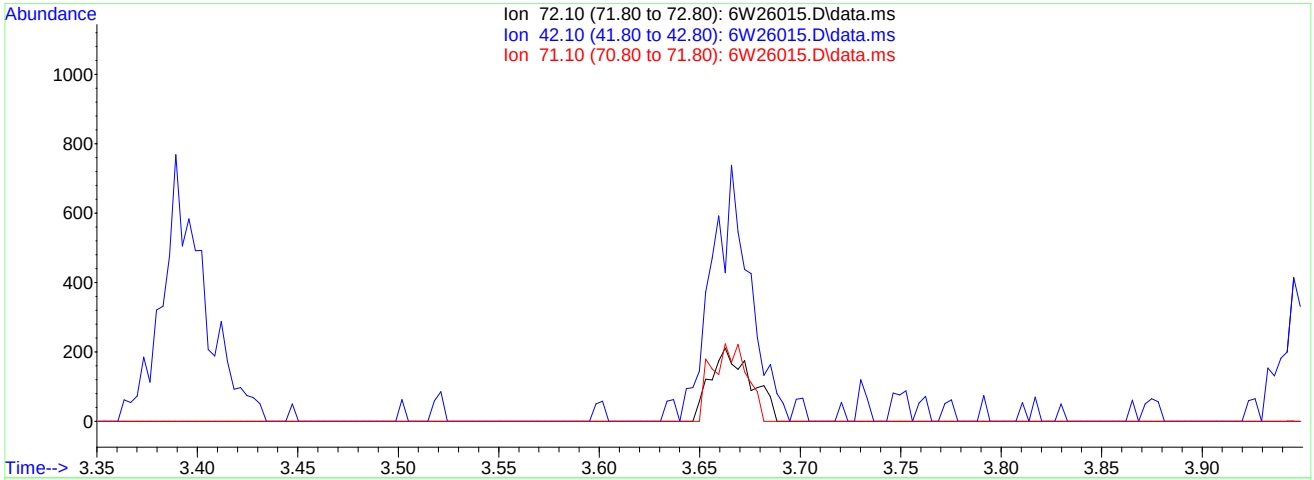
response 278

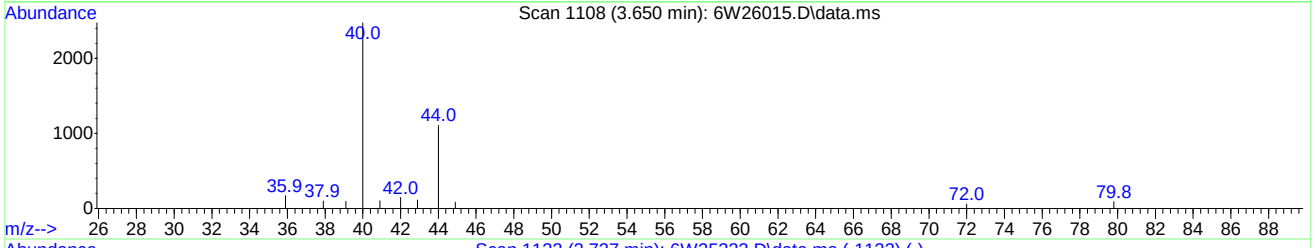
| Ion | Exp% | Act% |
|---|---|---|
| 76.00 | 100 | 100 |
| 41.10 | 184.90 | 0.00# |
| 39.10 | 118.20 | 0.00# |
| 78.00 | 32.40 | 0.00# |

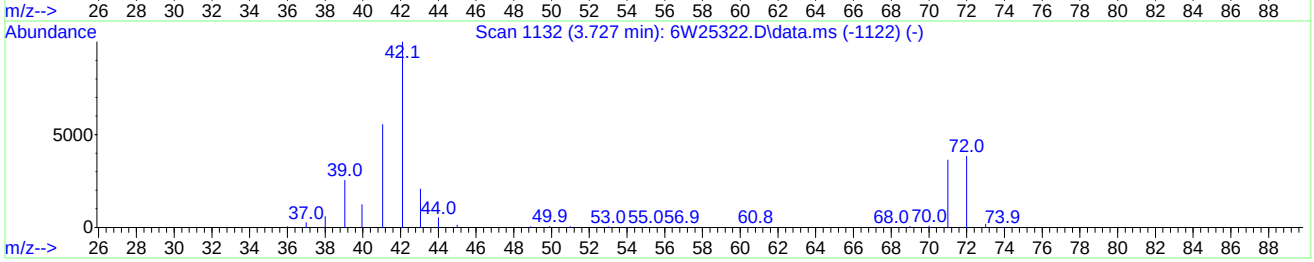
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(37) TETRAHYDROFURAN (T)

3.650min (-3.650) 0.00PPBV

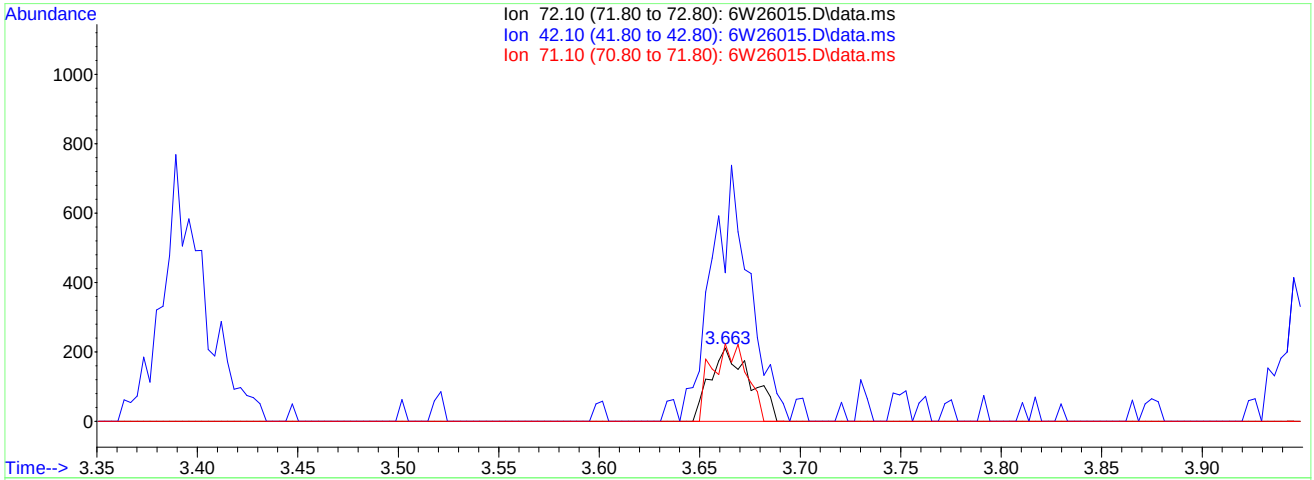
response 0

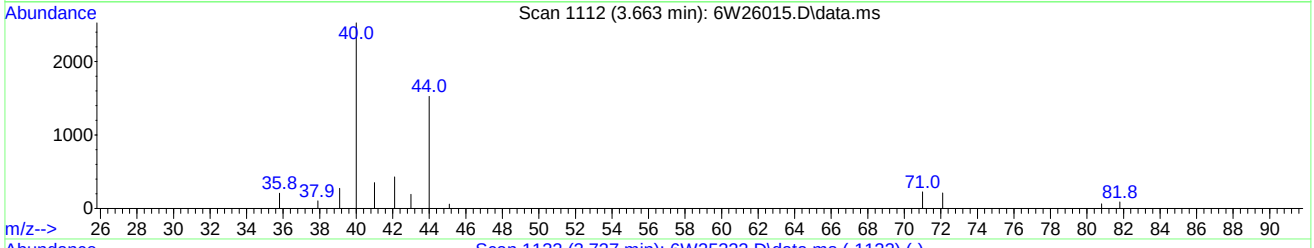
| Ion | Exp% | Act% |
|---|---|---|
| 72.10 | 100 | 0.00 |
| 42.10 | 186.30 | 0.00# |
| 71.10 | 93.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

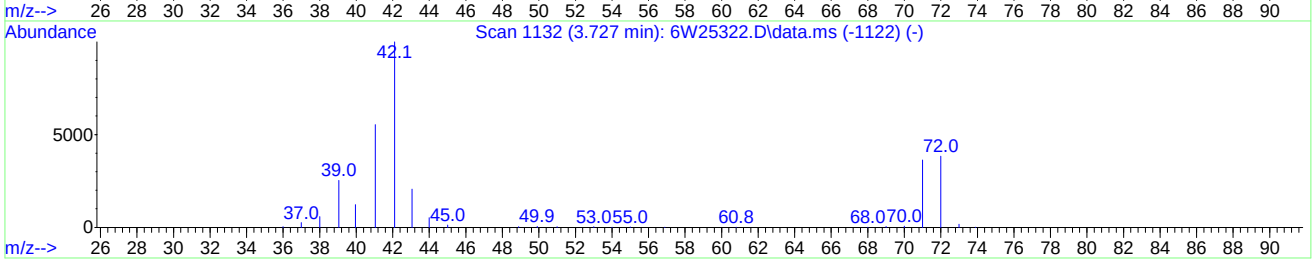
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(37) TETRAHYDROFURAN (T)

3.663min (+0.013) 0.10PPBV m

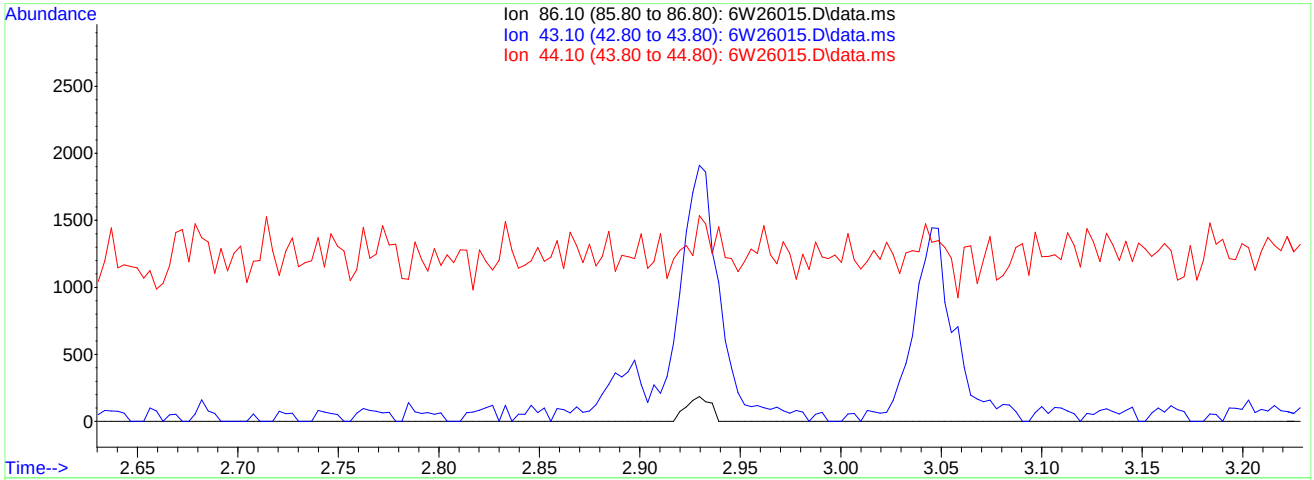
response 296

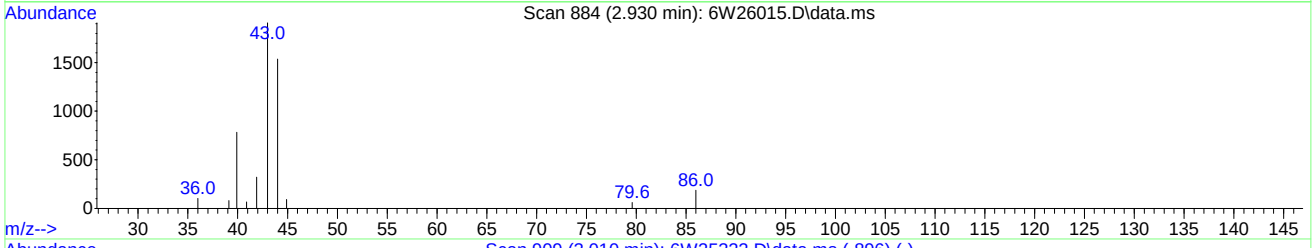
| Ion | Exp% | Act% |
|---|---|---|
| 72.10 | 100 | 100 |
| 42.10 | 186.30 | 0.00# |
| 71.10 | 93.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

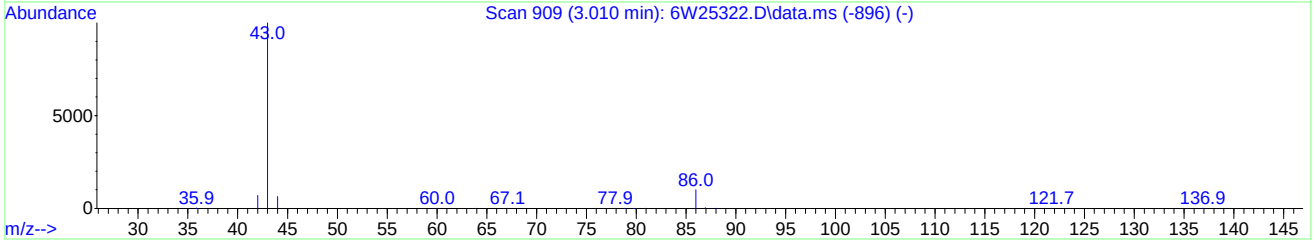
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(39) VINYL ACETATE (T)

2.930min (-2.930) 0.00PPBV

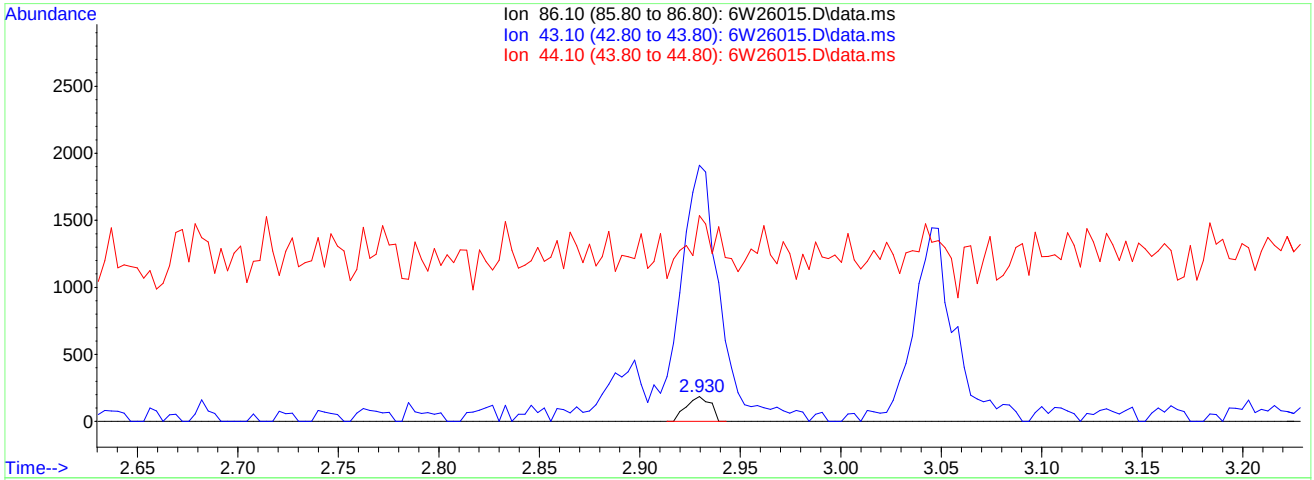
response 0

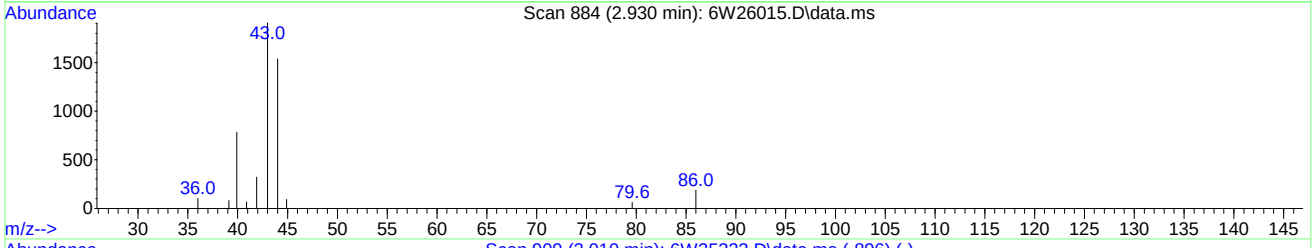
| Ion | Exp% | Act% |
|---|---|---|
| 86.10 | 100 | 0.00 |
| 43.10 | 782.90 | 0.00# |
| 44.10 | 43.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

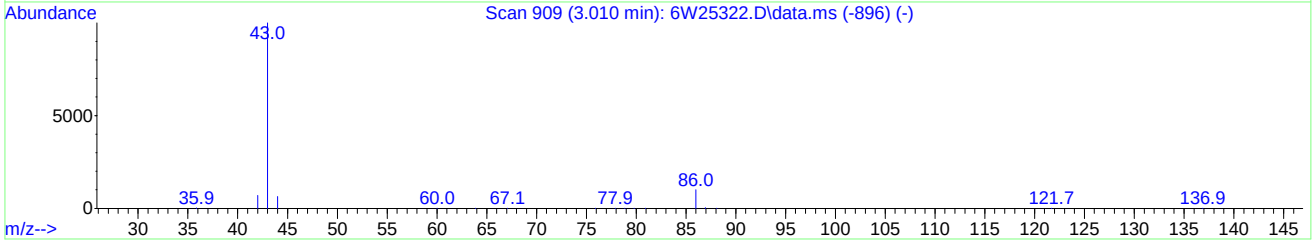
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(39) VINYL ACETATE (T)

2.930min (-0.000) 0.08PPBV m

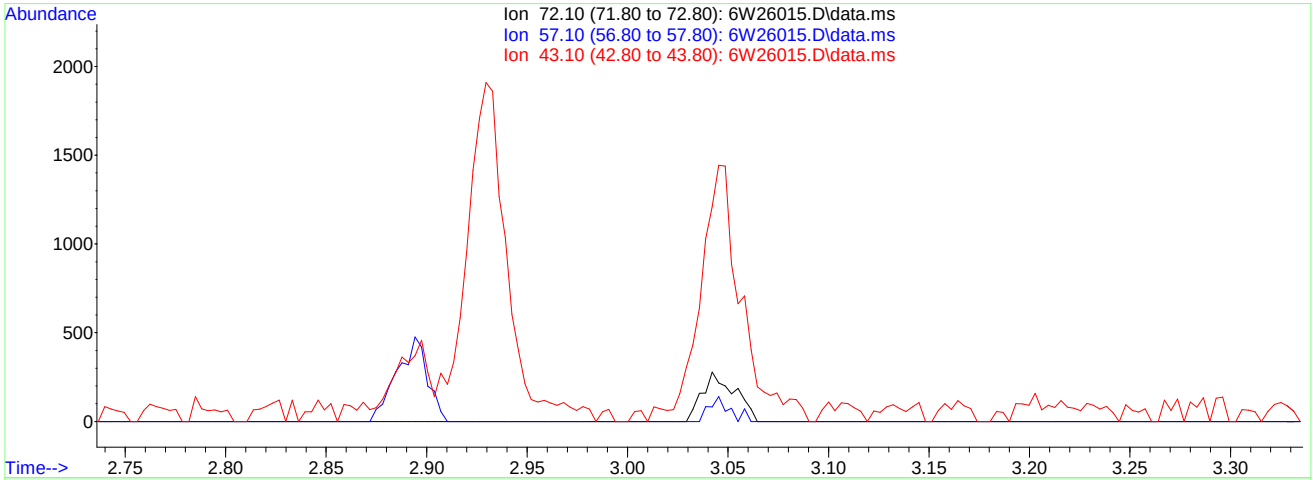
response 156

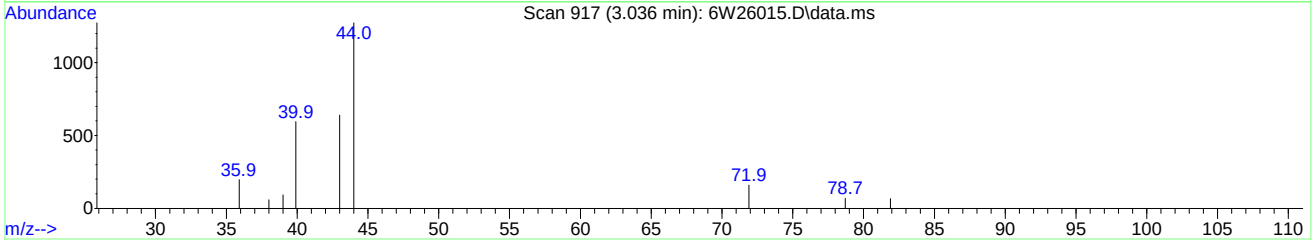
| Ion | Exp% | Act% |
|---|---|---|
| 86.10 | 100 | 100 |
| 43.10 | 782.90 | 0.00# |
| 44.10 | 43.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

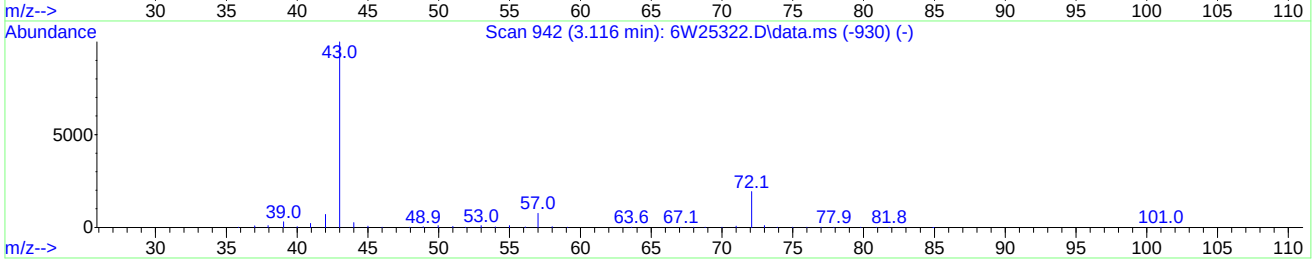
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(41) METHYL ETHYL KETONE (T)

3.036min (-3.036) 0.00PPBV

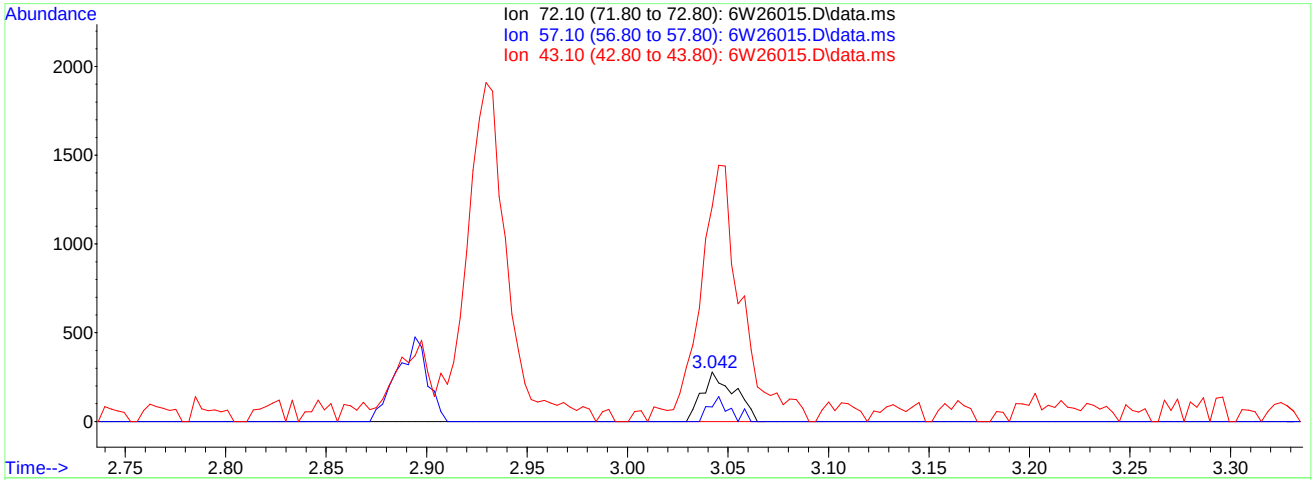
response 0

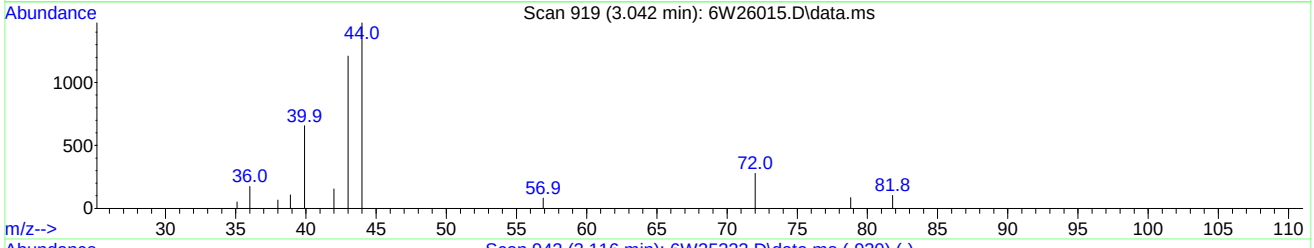
| Ion | Exp% | Act% |
|---|---|---|
| 72.10 | 100 | 0.00 |
| 57.10 | 27.80 | 0.00# |
| 43.10 | 315.70 | 0.00# |
| 0.00 | 0.00 | 0.00 |

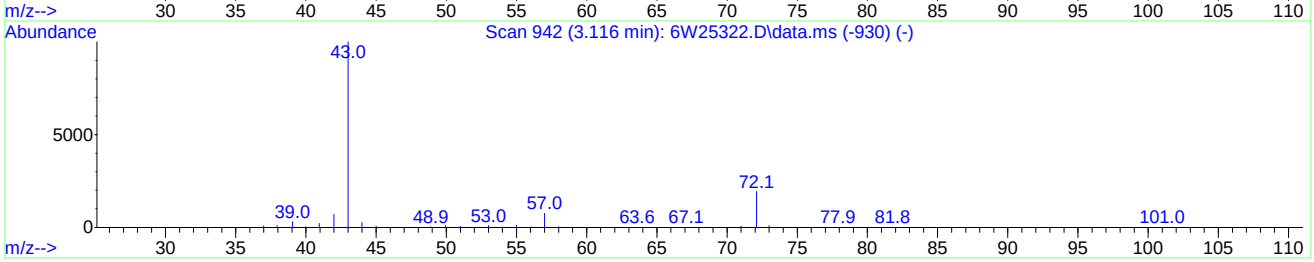
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(41) METHYL ETHYL KETONE (T)

3.042min (+0.006) 0.08PPBV m

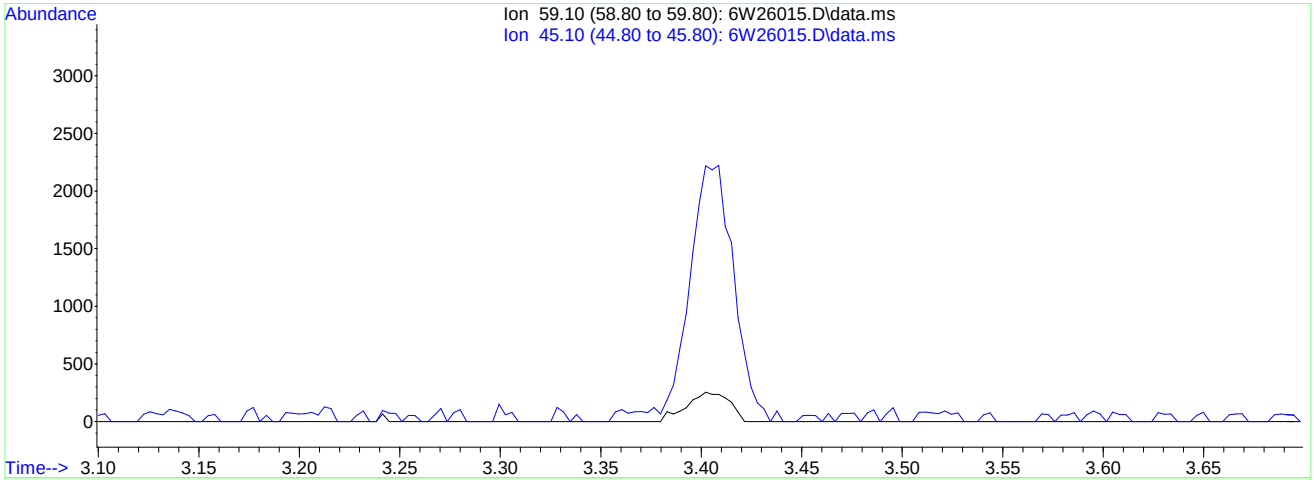
response 313

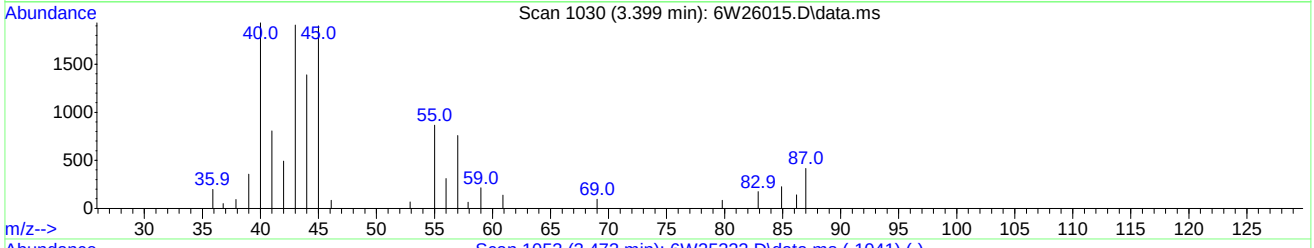
| Ion | Exp% | Act% |
|---|---|---|
| 72.10 | 100 | 100 |
| 57.10 | 27.80 | 0.00# |
| 43.10 | 315.70 | 0.00# |
| 0.00 | 0.00 | 0.00 |

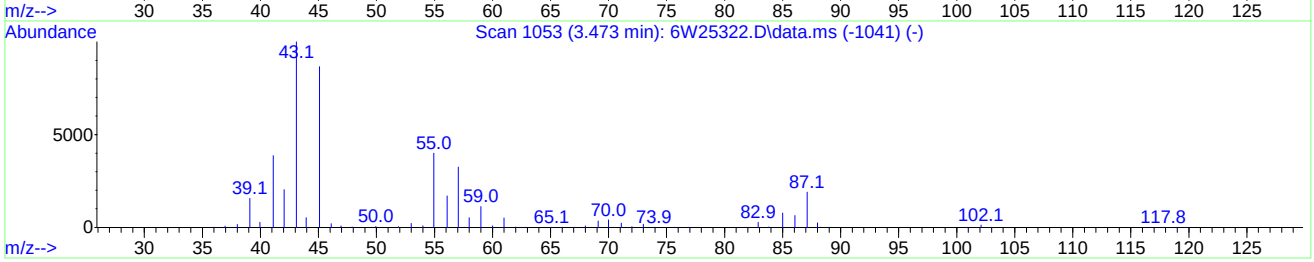
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(43) DIISOPROPYL ETHER (T)

3.399min (-3.399) 0.00PPBV

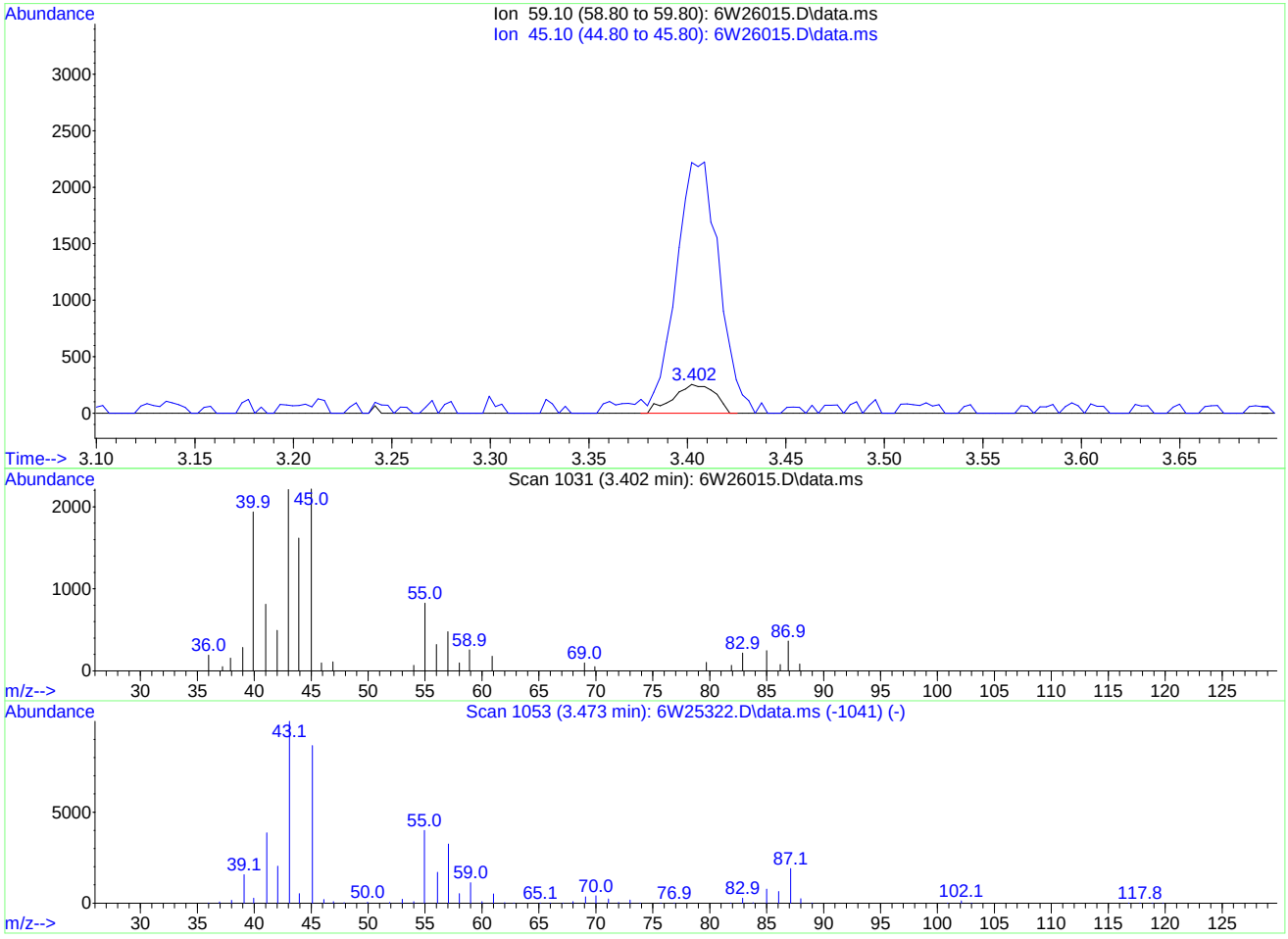
response 0

| Ion | Exp% | Act% |
|---|---|---|
| 59.10 | 100 | 0.00 |
| 45.10 | 674.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(43) DIISOPROPYL ETHER (T)

3.402min (+0.003) 0.11PPBV m

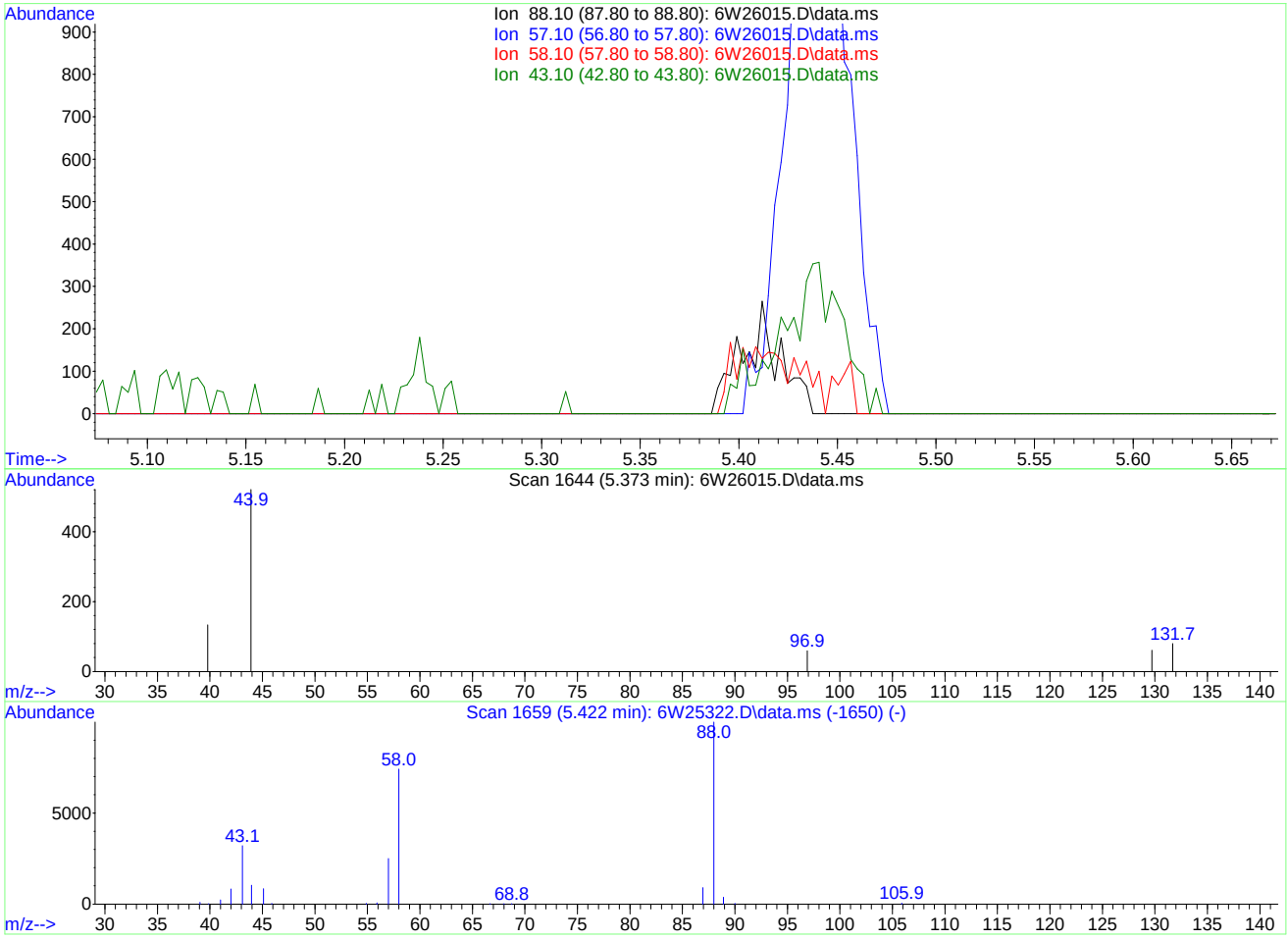
response 373

| Ion | Exp% | Act% |
|---|---|---|
| 59.10 | 100 | 100 |
| 45.10 | 674.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration










TIC: 6W26015.D\data.ms

(61) 1,4-DIOXANE (T)

5.373min (-5.373) 0.00PPBV

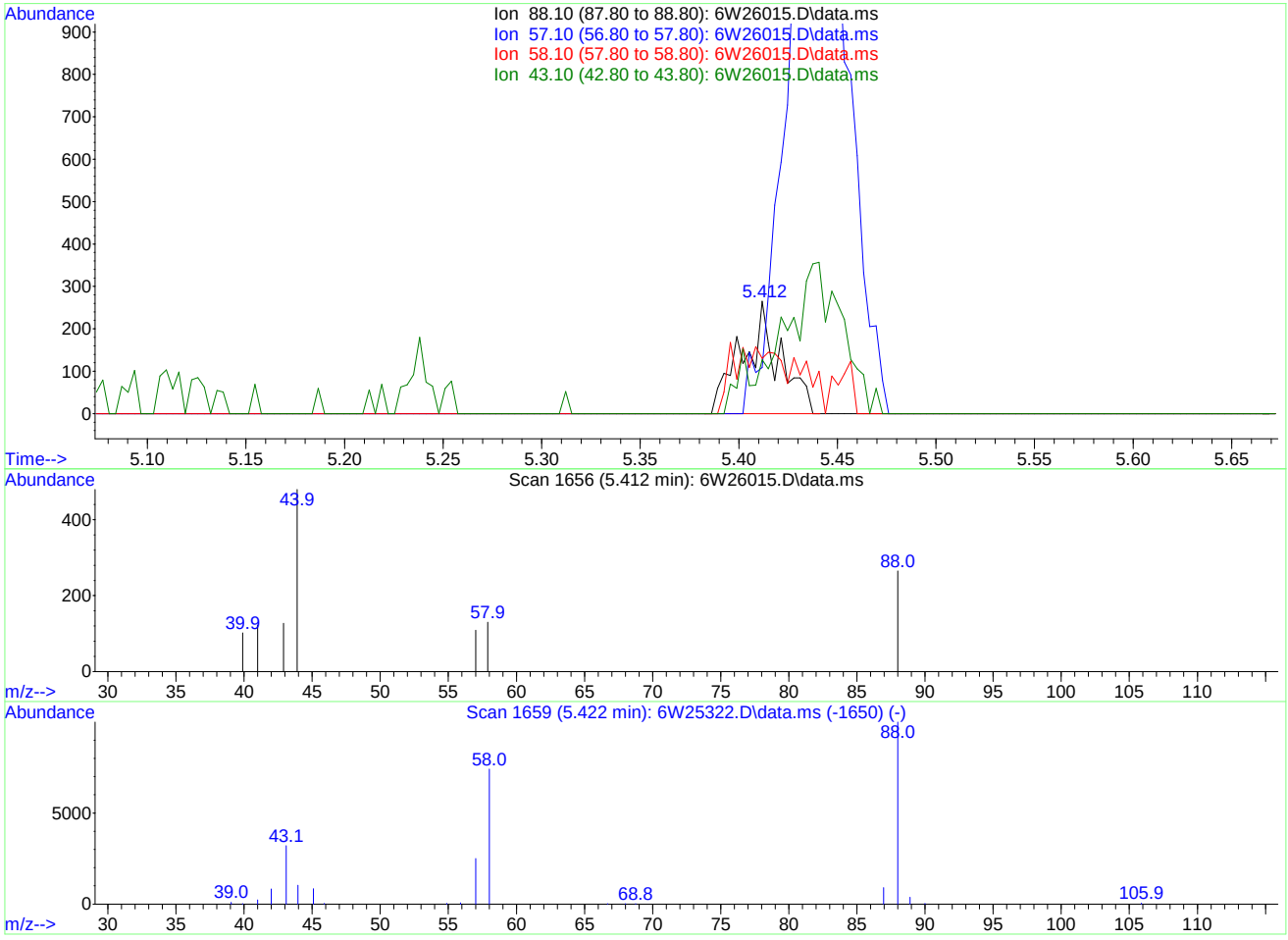
response 0

| Ion | Exp% | Act% |
|---|---|---|
| 88.10 | 100 | 0.00 |
| 57.10 | 18.70 | 0.00# |
| 58.10 | 62.60 | 0.00# |
| 43.10 | 19.20 | 0.00# |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(61) 1,4-DIOXANE (T)

5.412min (+0.038) 0.08PPBV m

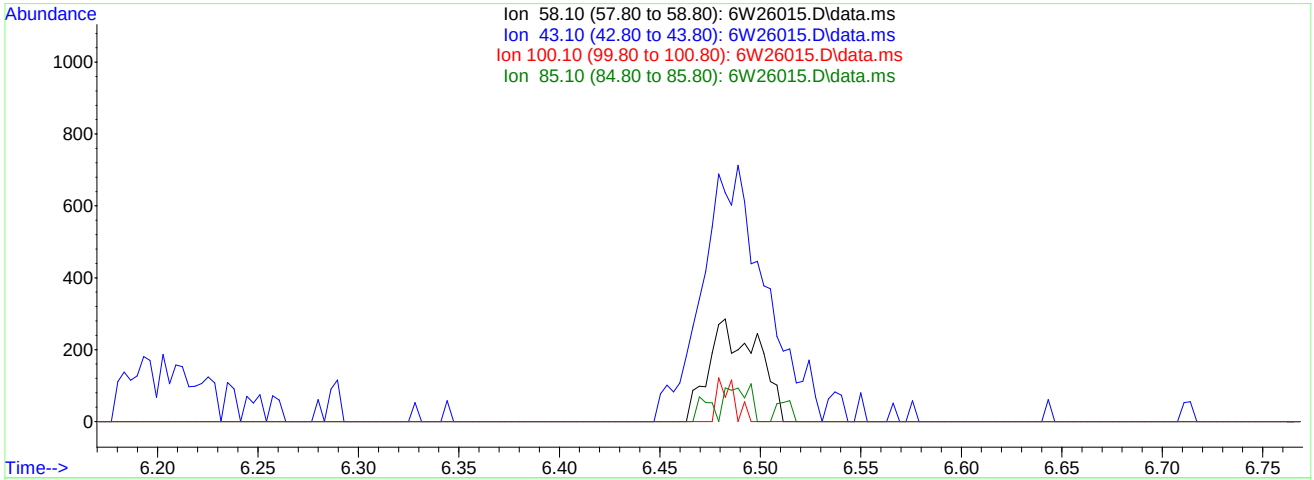
response 346

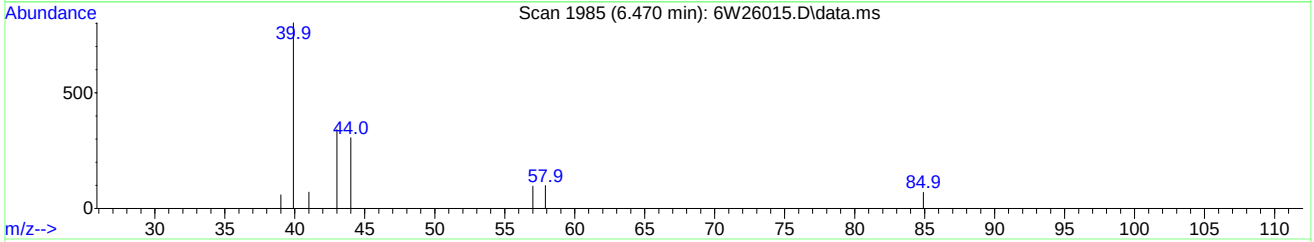
| Ion | Exp% | Act% |
|---|---|---|
| 88.10 | 100 | 100 |
| 57.10 | 18.70 | 0.00# |
| 58.10 | 62.60 | 0.00# |
| 43.10 | 19.20 | 0.00# |

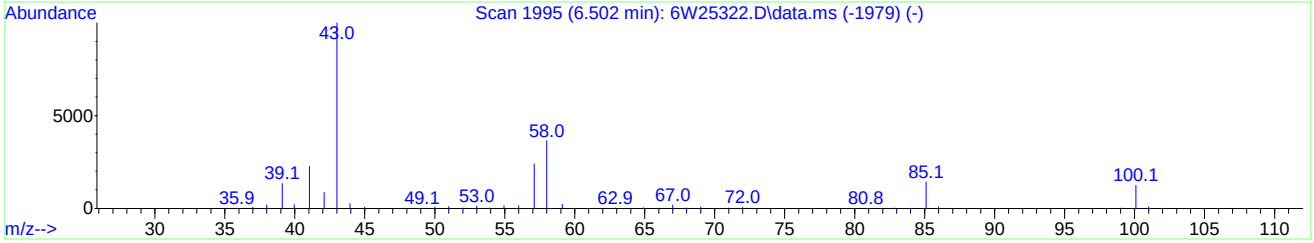
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(64) METHYL ISOBUTYL KETONE (T)

6.470min (-6.470) 0.00PPBV

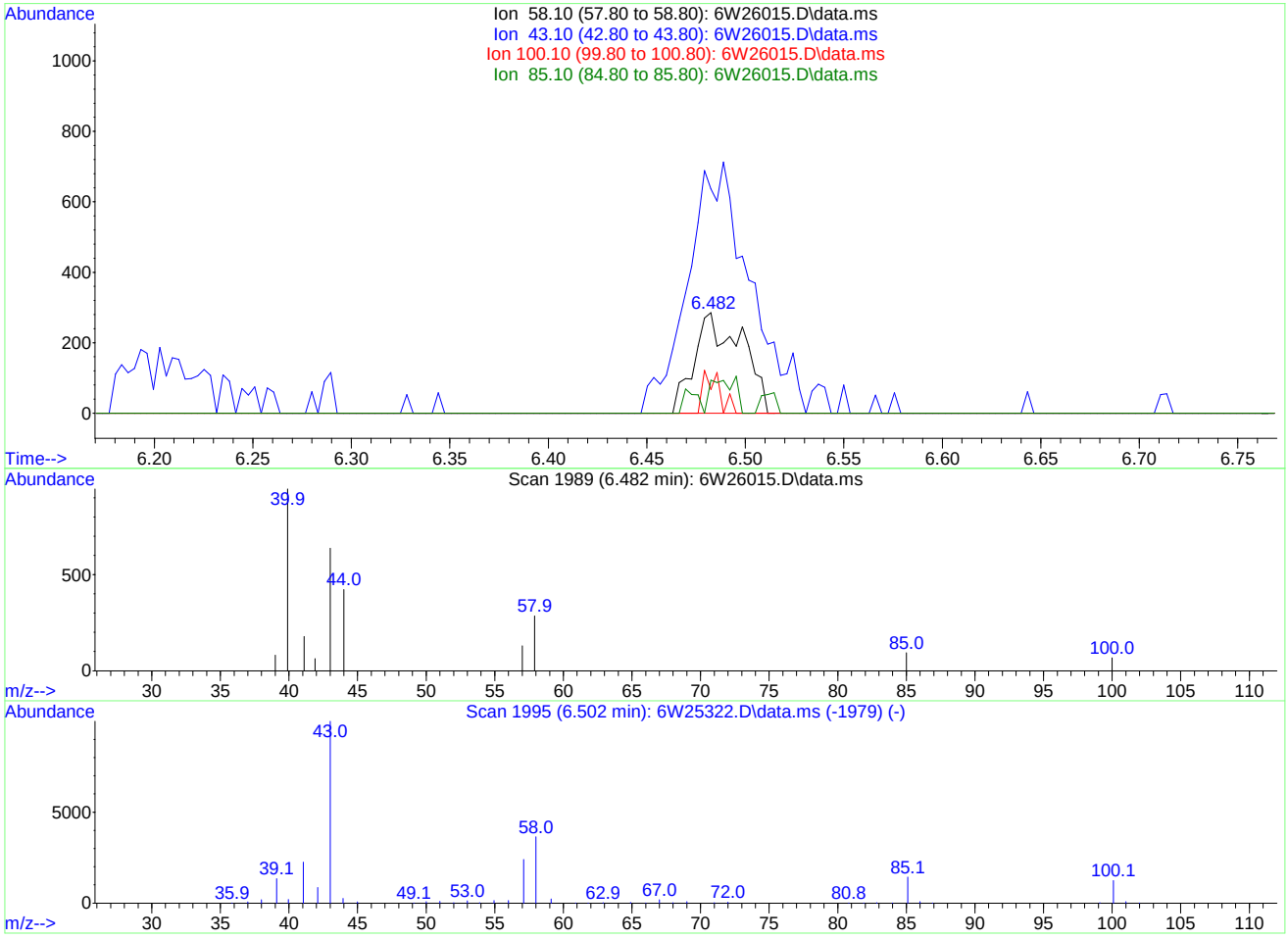
response 0

| Ion | Exp% | Act% |
|---|---|---|
| 58.10 | 100 | 0.00 |
| 43.10 | 210.30 | 0.00# |
| 100.10 | 42.00 | 0.00# |
| 85.10 | 45.90 | 0.00# |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(64) METHYL ISOBUTYL KETONE (T)

6.482min (+0.013) 0.07PPBV m

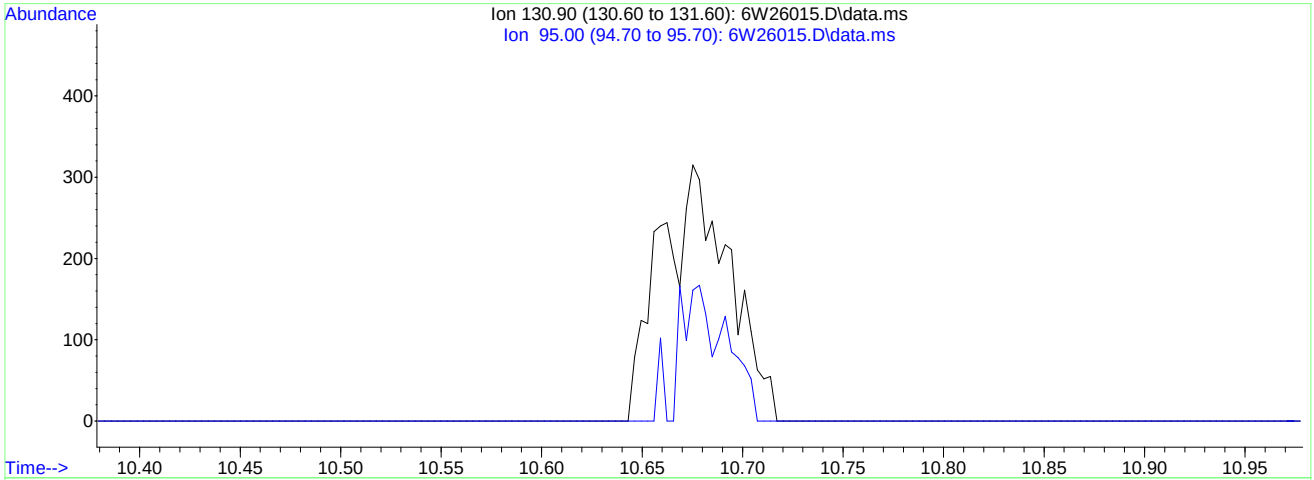
response 477

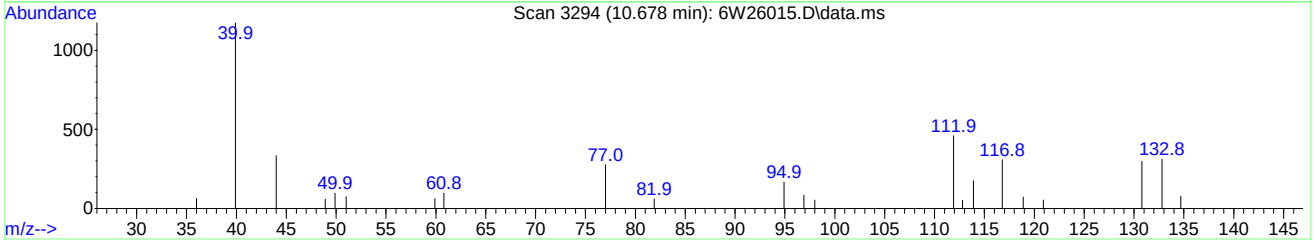
| Ion | Exp% | Act% |
|---|---|---|
| 58.10 | 100 | 100 |
| 43.10 | 210.30 | 0.00# |
| 100.10 | 42.00 | 0.00# |
| 85.10 | 45.90 | 0.00# |

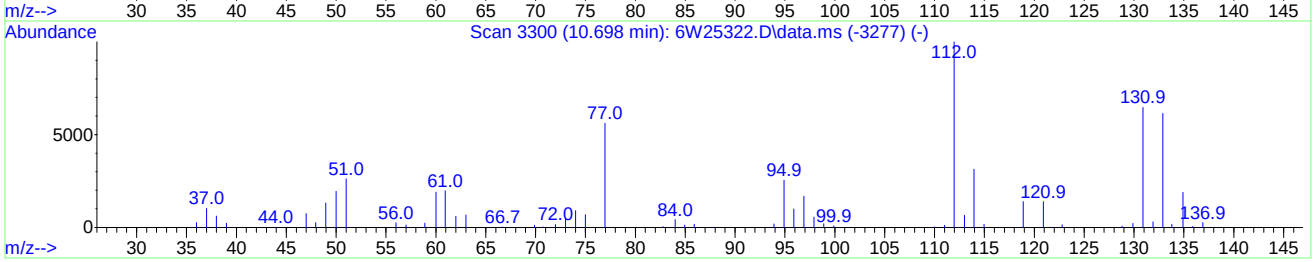
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(77) 1,1,1,2-TETRACHLOROETHANE (T)

10.679min (-10.679) 0.00PPBV

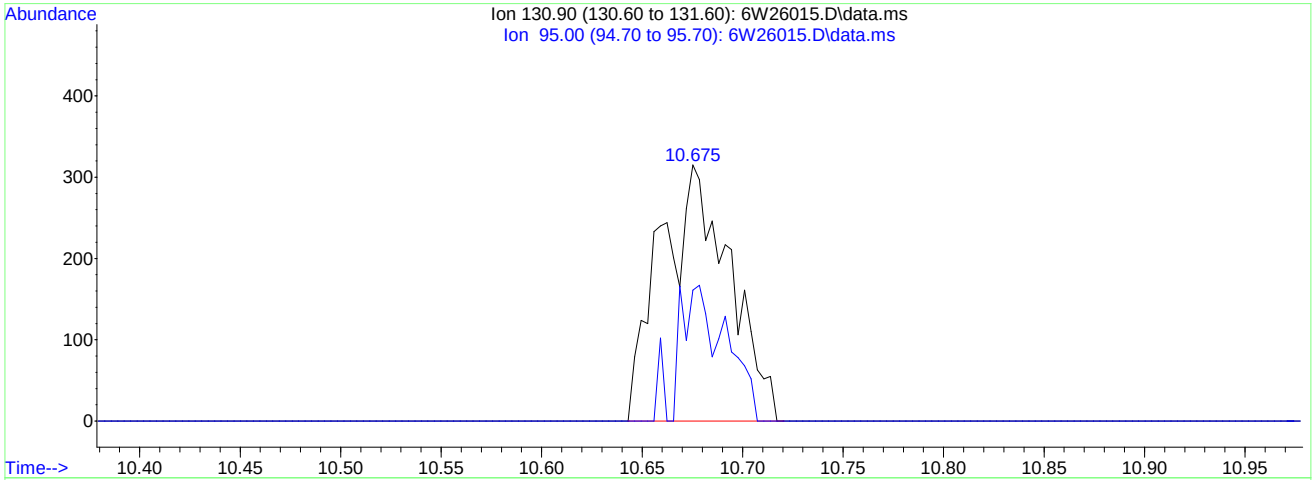
response 0

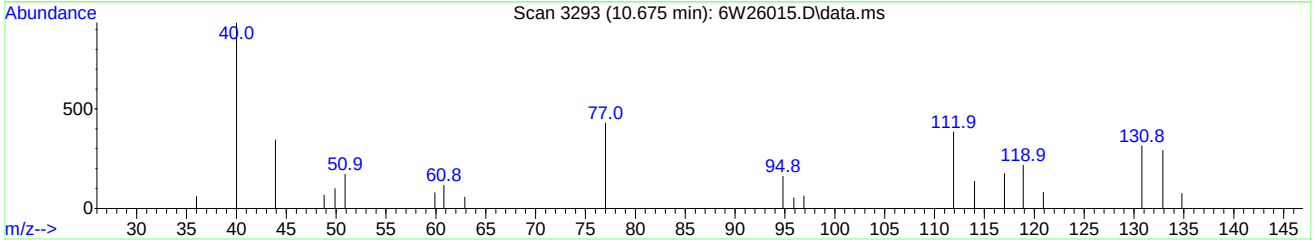
| Ion | Exp% | Act% |
|---|---|---|
| 130.90 | 100 | 0.00 |
| 95.00 | 35.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

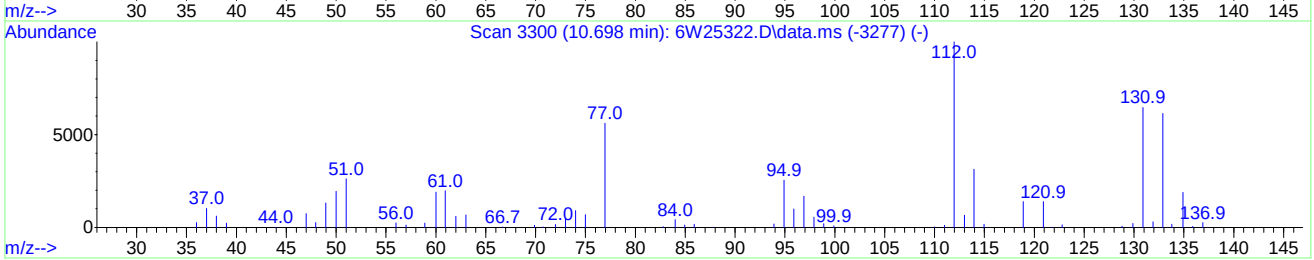
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(77) 1,1,1,2-TETRACHLOROETHANE (T)

10.675min (-0.003) 0.08PPBV m

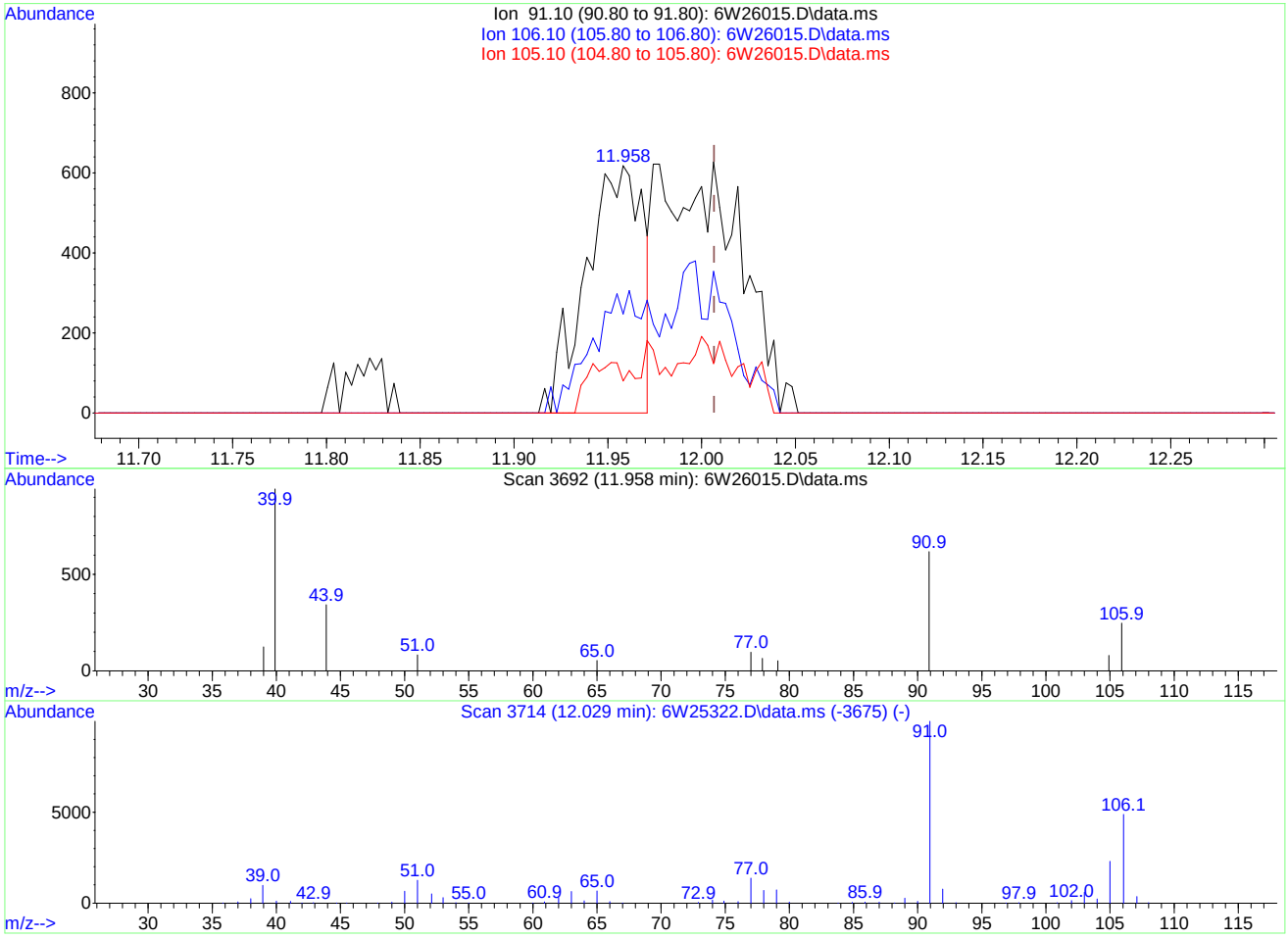
response 755

| Ion | Exp% | Act% |
|---|---|---|
| 130.90 | 100 | 100 |
| 95.00 | 35.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(80) M,P-XYLENE (t)

11.958min (-0.048) 0.06PPBV

response 1294

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 51.39 |
| 105.10 | 23.60 | 0.00# |
| 0.00 | 0.00 | 0.00 |





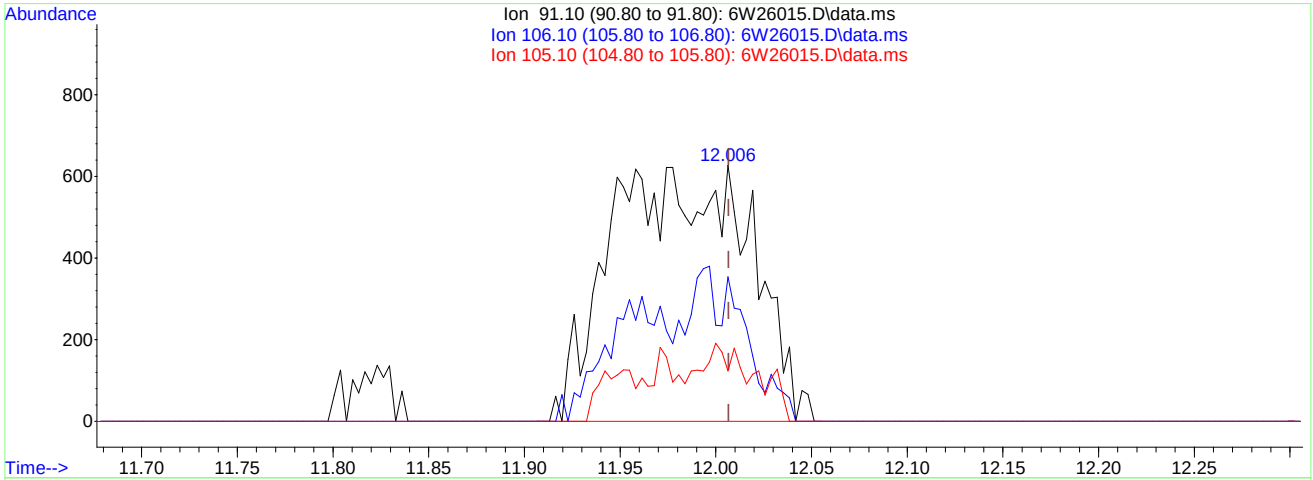


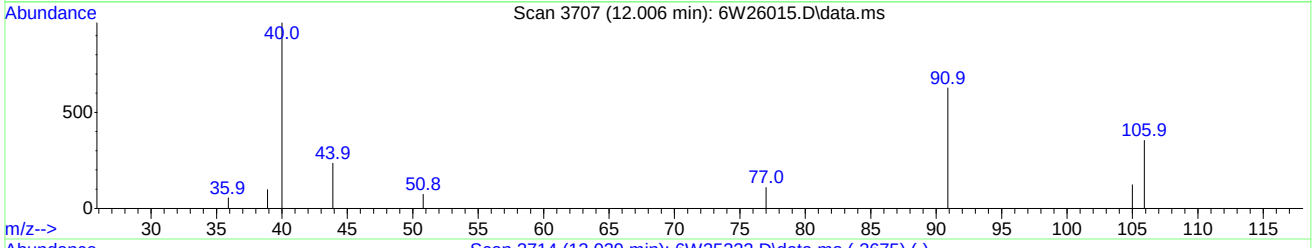
6W26015.D edits: M,P-XYLENE

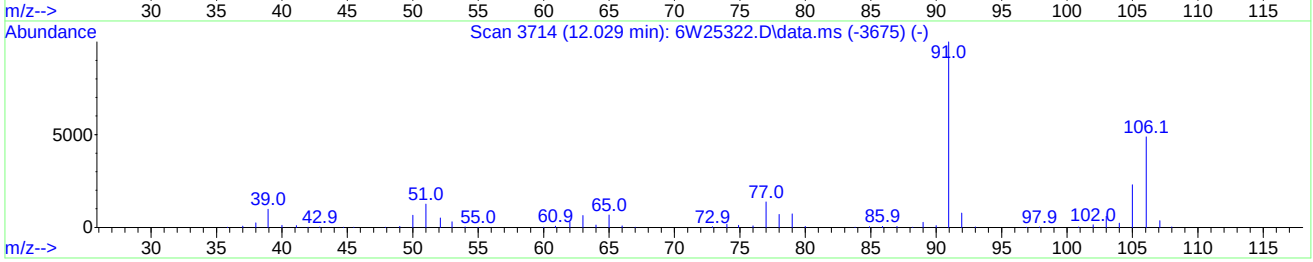
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(80) M,P-XYLENE (t)

12.006min (-0.000) 0.14PPBV m

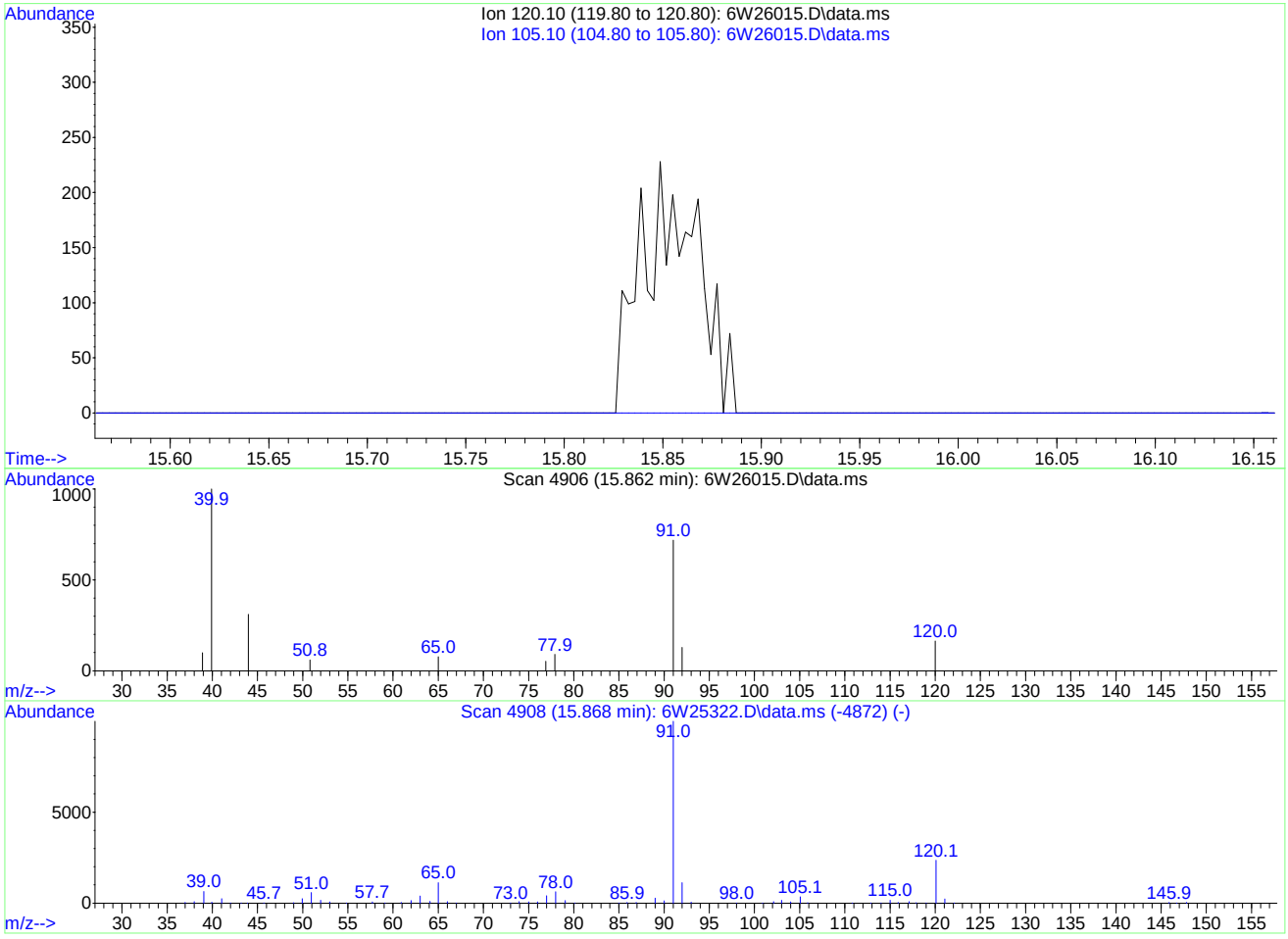
response 3142

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 51.50 | 21.16# |
| 105.10 | 23.60 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(91) N-PROPYLBENZENE (T)

15.862min (-15.862) 0.00PPBV

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 120.10 | 100 | 0.00 |
| 105.10 | 16.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |





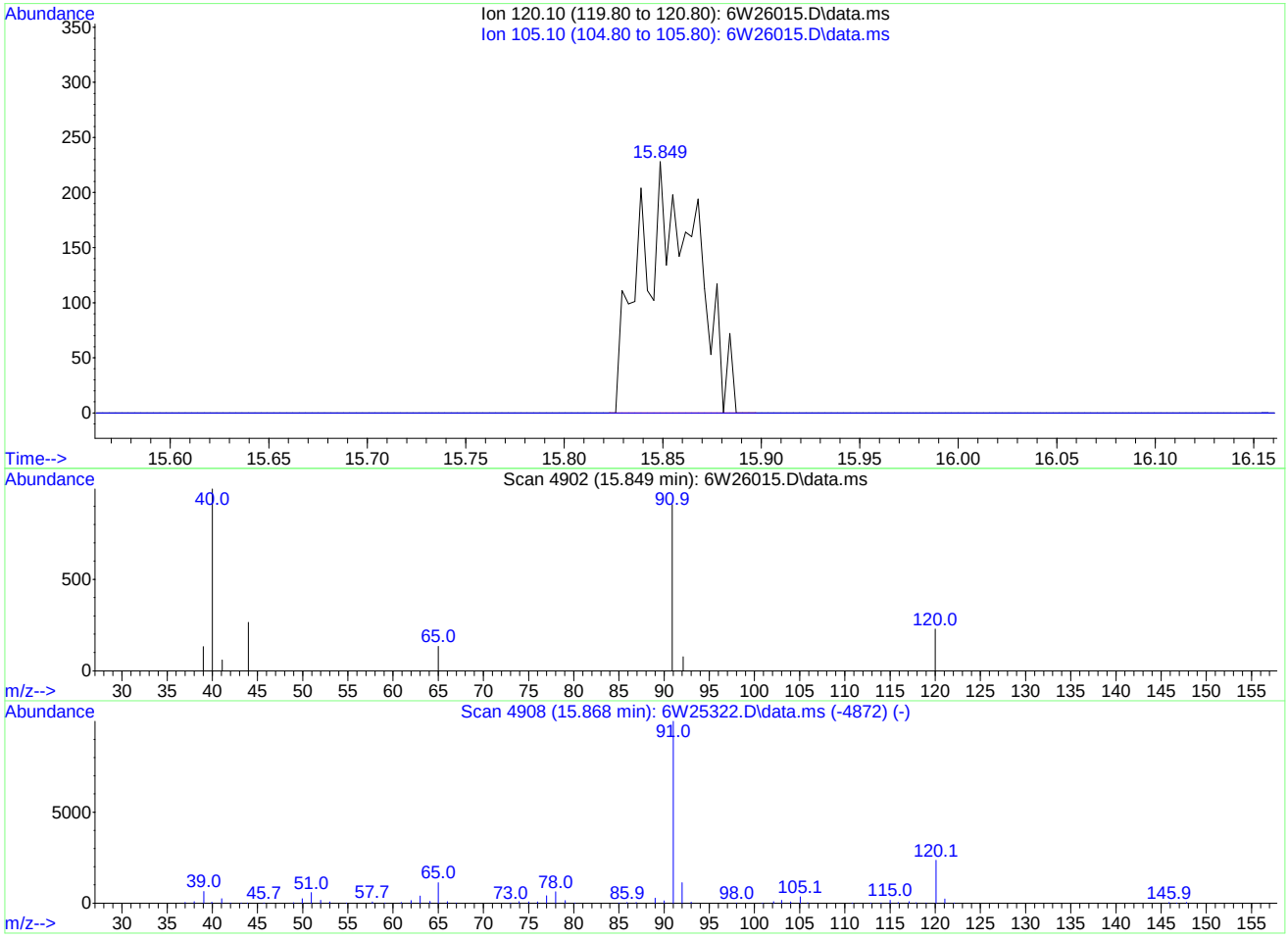


6W26015.D edits: N-PROPYLBENZENE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(91) N-PROPYLBENZENE (T)

15.849min (-0.013) 0.05PPBV m

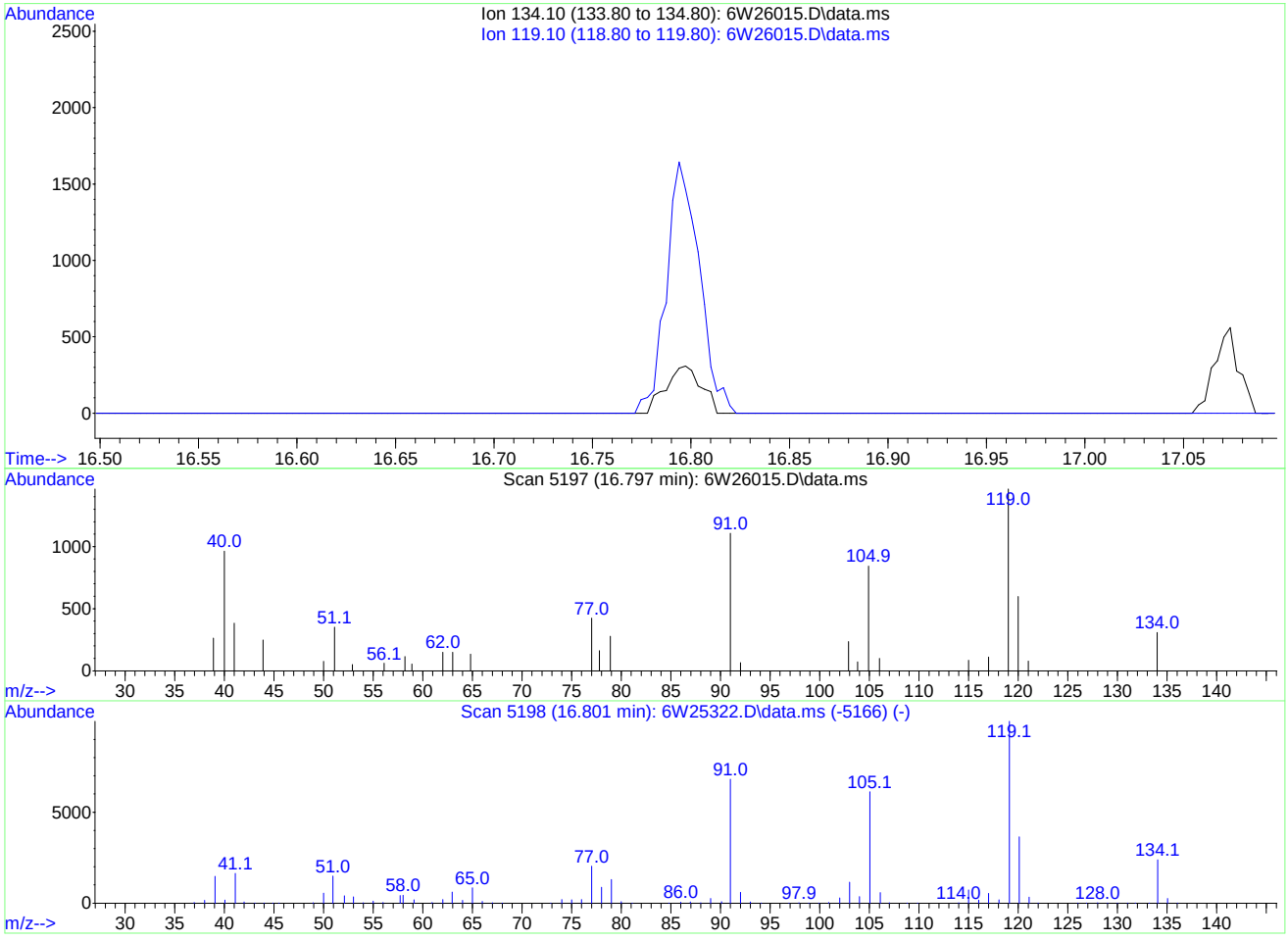
response 444

| Ion | Exp% | Act% |
|---|---|---|
| 120.10 | 100 | 100 |
| 105.10 | 16.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(95) TERT-BUTYLBENZENE (T)

16.797min (-16.797) 0.00PPBV

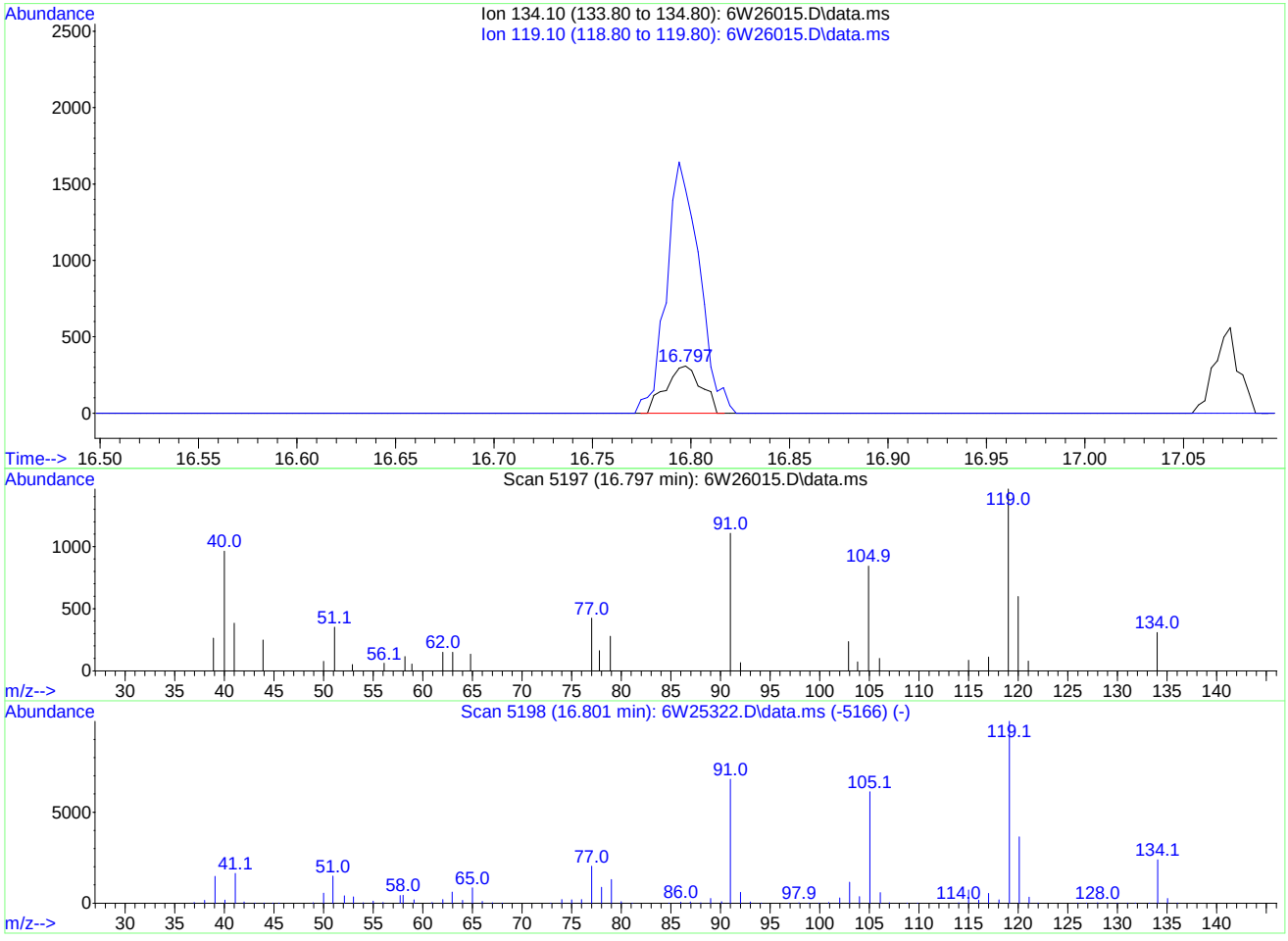
response 0

| Ion | Exp% | Act% |
|---|---|---|
| 134.10 | 100 | 0.00 |
| 119.10 | 443.70 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(95) TERT-BUTYLBENZENE (T)

16.797min (-0.000) 0.06PPBV m

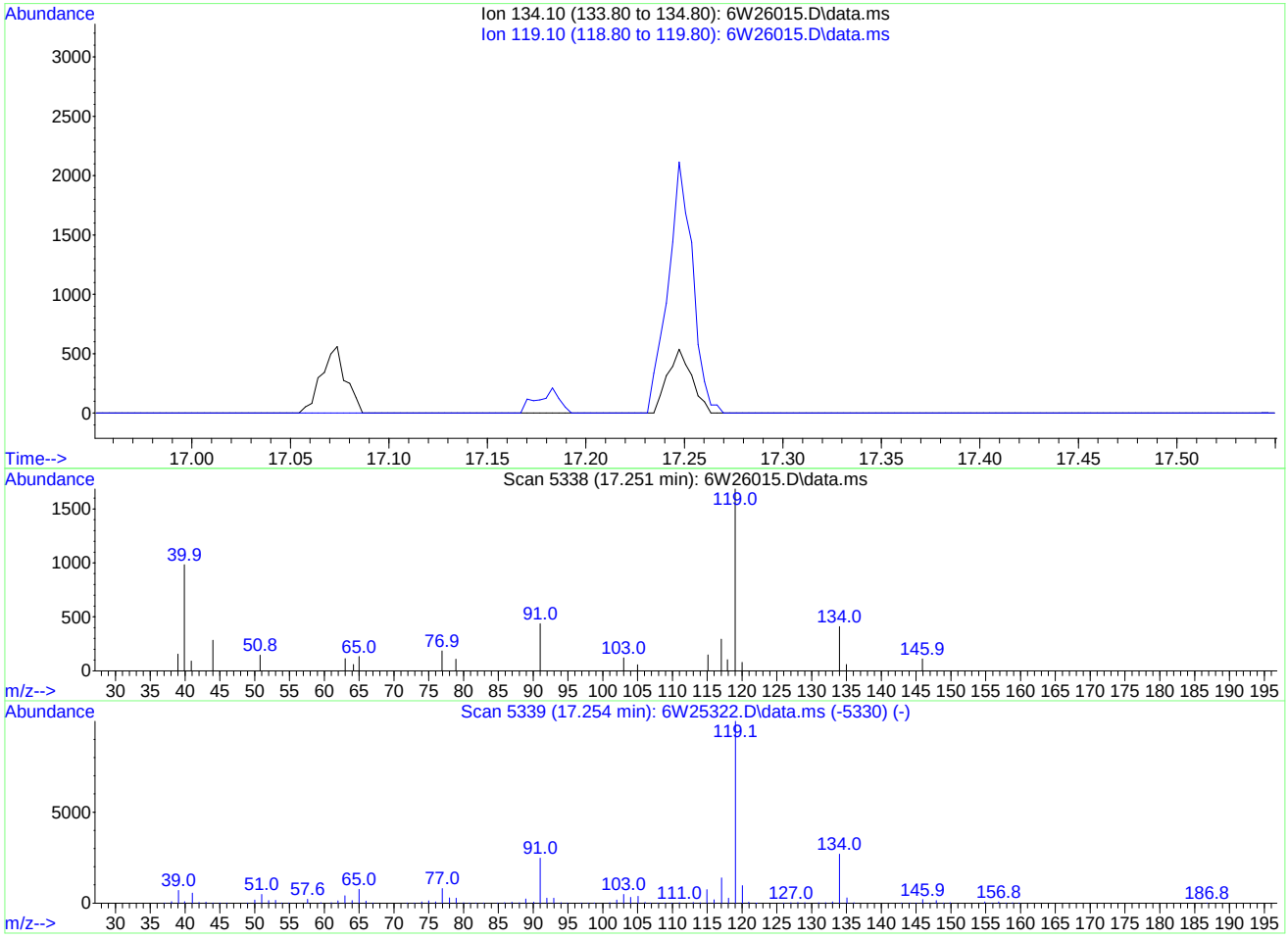
response 385

| Ion | Exp% | Act% |
|---|---|---|
| 134.10 | 100 | 100 |
| 119.10 | 443.70 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(103) P-ISOPROPYLTOLUENE (T)

17.251min (-17.251) 0.00PPBV

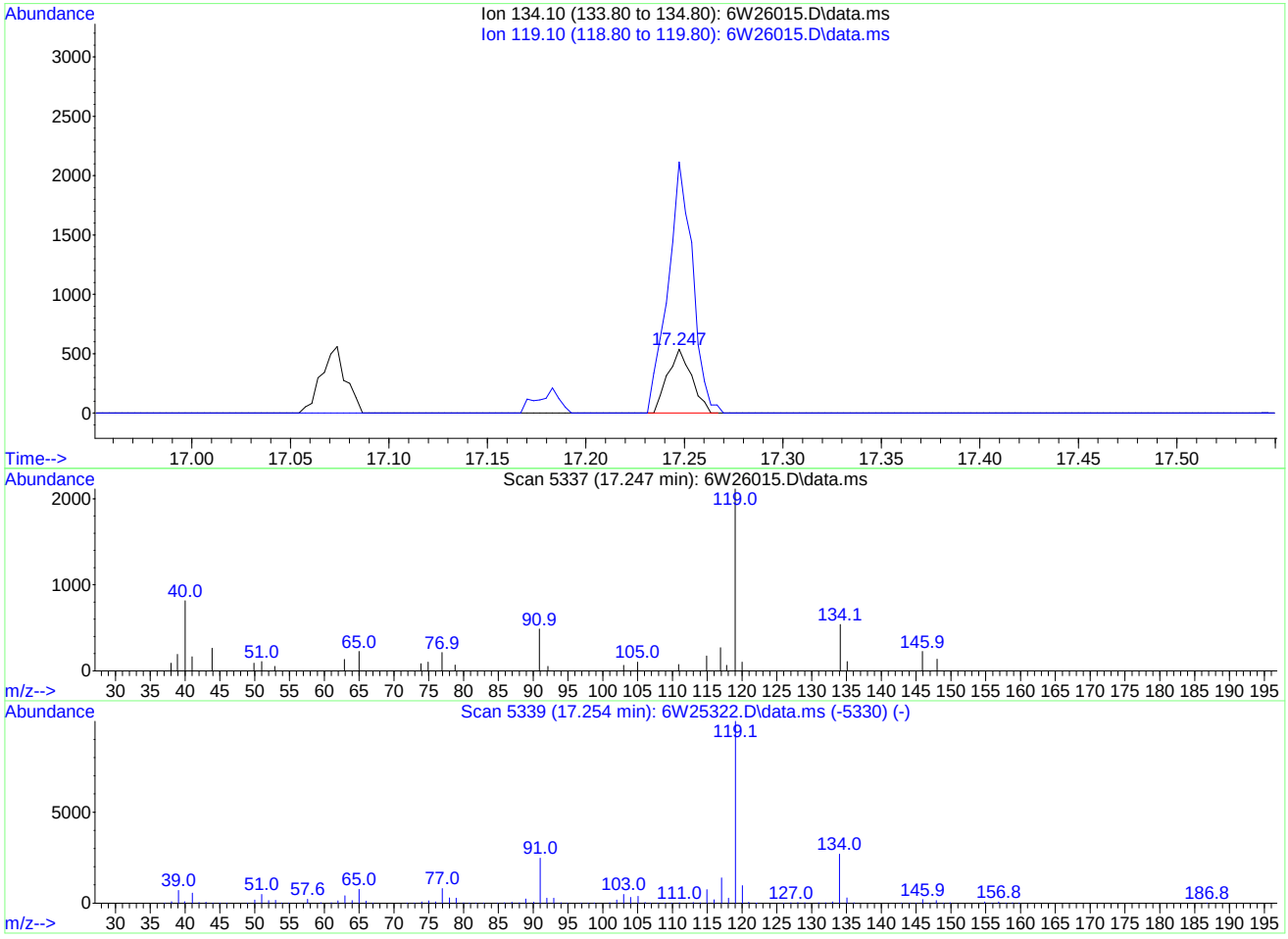
response 0

| Ion | Exp% | Act% |
|---|---|---|
| 134.10 | 100 | 0.00 |
| 119.10 | 378.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(103) P-ISOPROPYLTOLUENE (T)

17.247min (-0.003) 0.05PPBV m

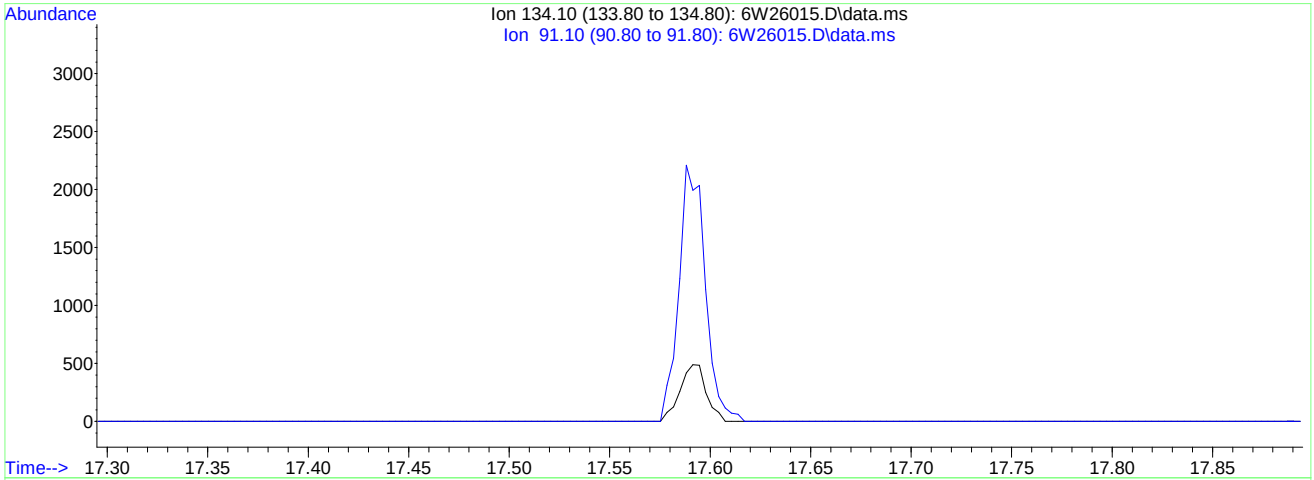
response 456

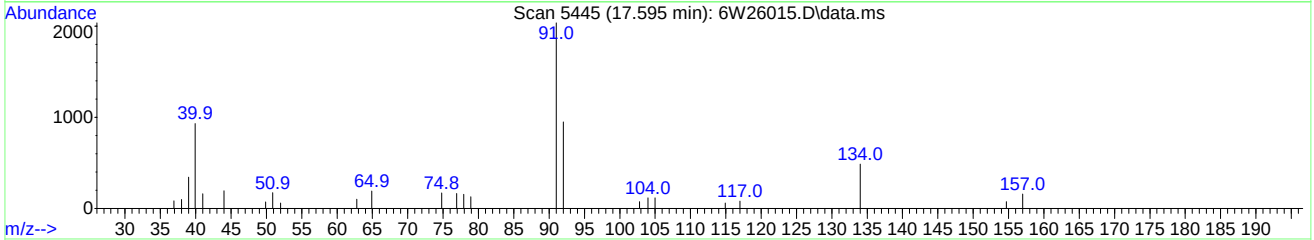
| Ion | Exp% | Act% |
|---|---|---|
| 134.10 | 100 | 100 |
| 119.10 | 378.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

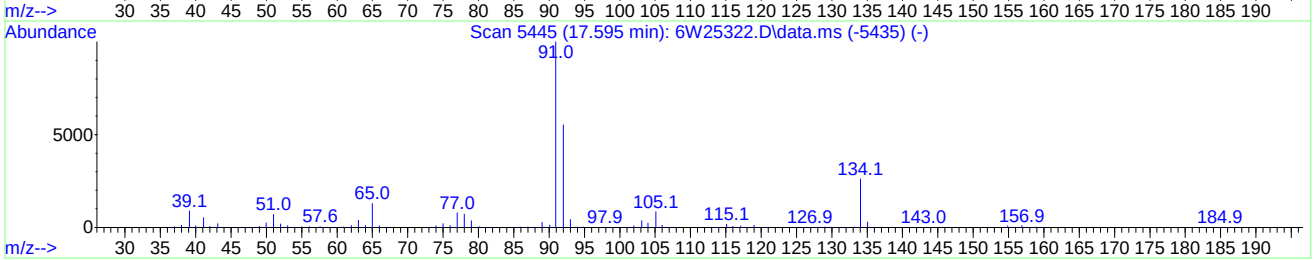
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(104) N-BUTYLBENZENE (T)

17.595min (-17.595) 0.00PPBV

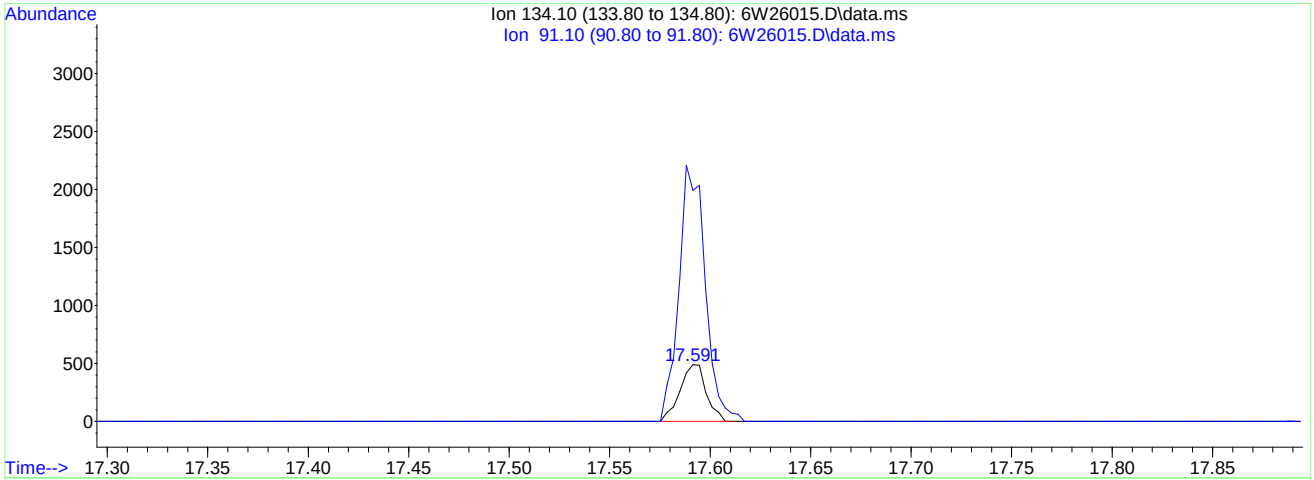
response 0

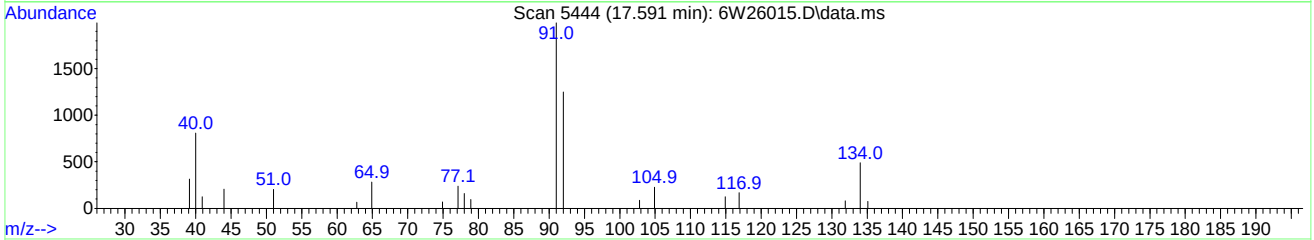
| Ion | Exp% | Act% |
|---|---|---|
| 134.10 | 100 | 0.00 |
| 91.10 | 370.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

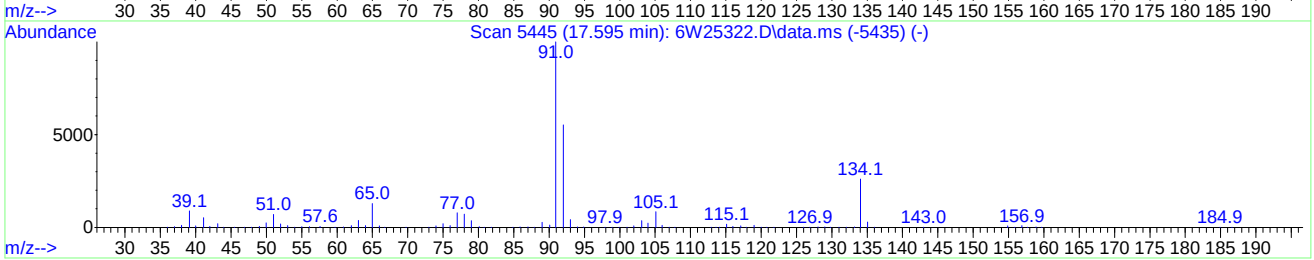
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 08:14:34 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(104) N-BUTYLBENZENE (T)

17.591min (-0.003) 0.05PPBV m

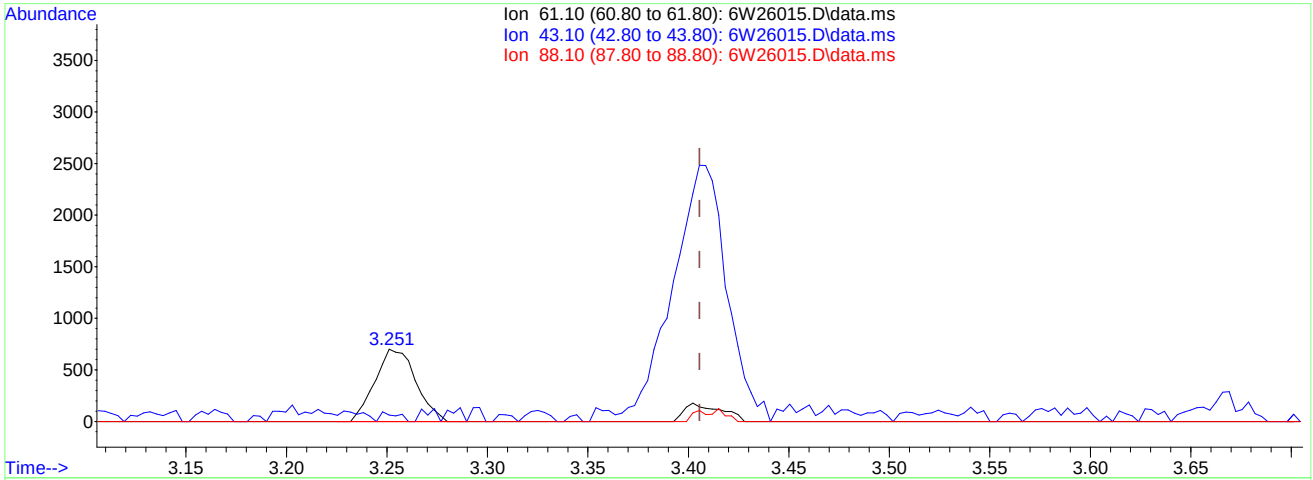
response 445

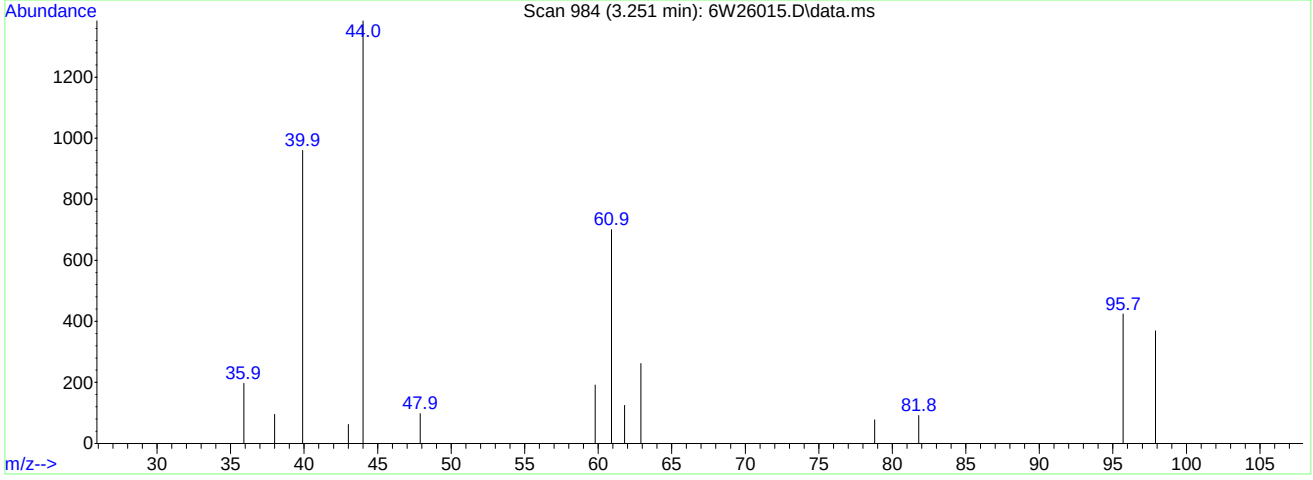
| Ion | Exp% | Act% |
|---|---|---|
| 134.10 | 100 | 100 |
| 91.10 | 370.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 09:39:21 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(44) ETHYL ACETATE (T)

3.251min (-0.155) 0.43PPBV

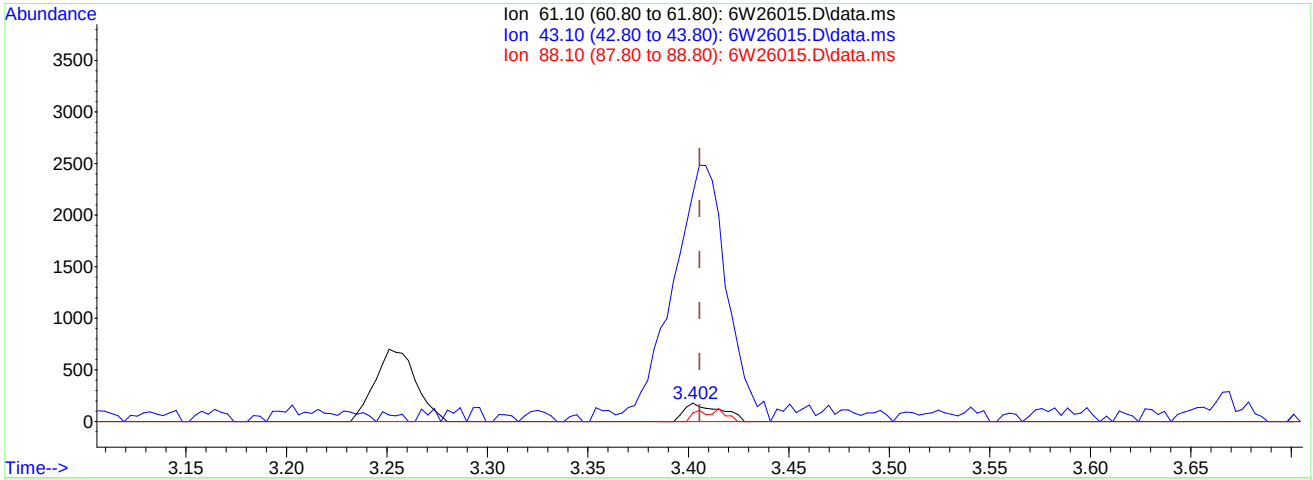
response 991

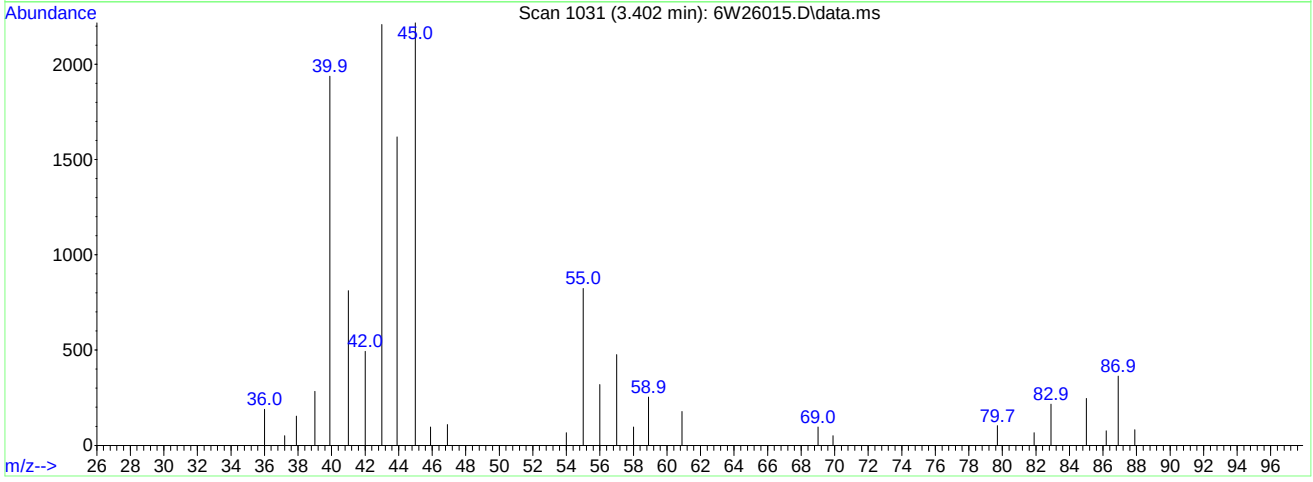
| Ion | Exp% | Act% |
|---|---|---|
| 61.10 | 100 | 100 |
| 43.10 | 1232.70 | 0.00# |
| 88.10 | 48.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 09:39:21 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(44) ETHYL ACETATE (T)

3.402min (-0.003) 0.10PPBV m

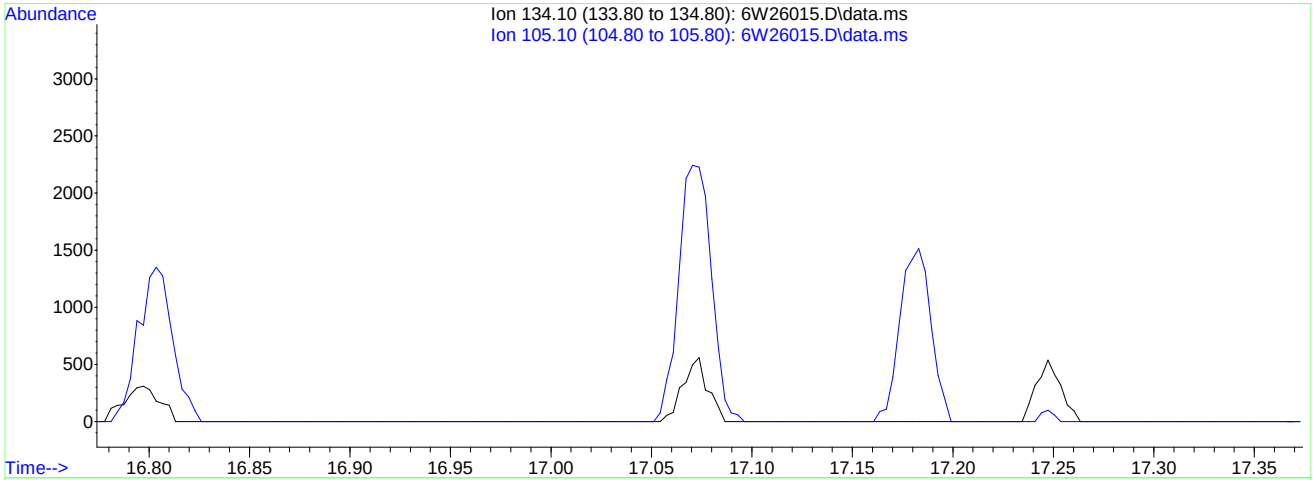
response 221

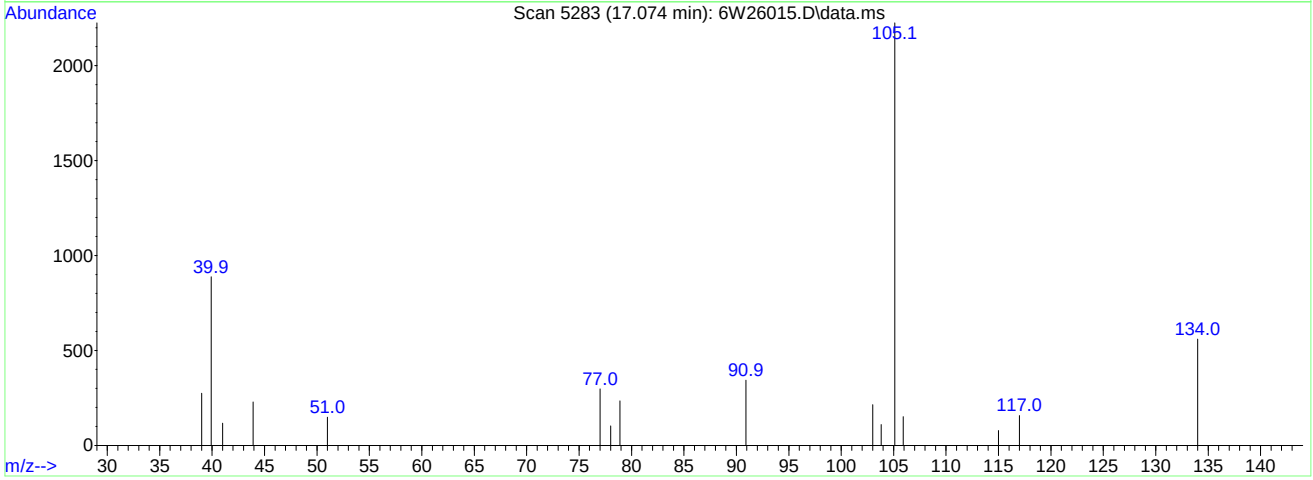
| Ion | Exp% | Act% |
|---|---|---|
| 61.10 | 100 | 100 |
| 43.10 | 1232.70 | 0.00# |
| 88.10 | 48.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 21 07:26:12 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 15:27:06 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(101) SEC-BUTYLBENZENE (T)

17.074min (-17.074) 0.00PPBV

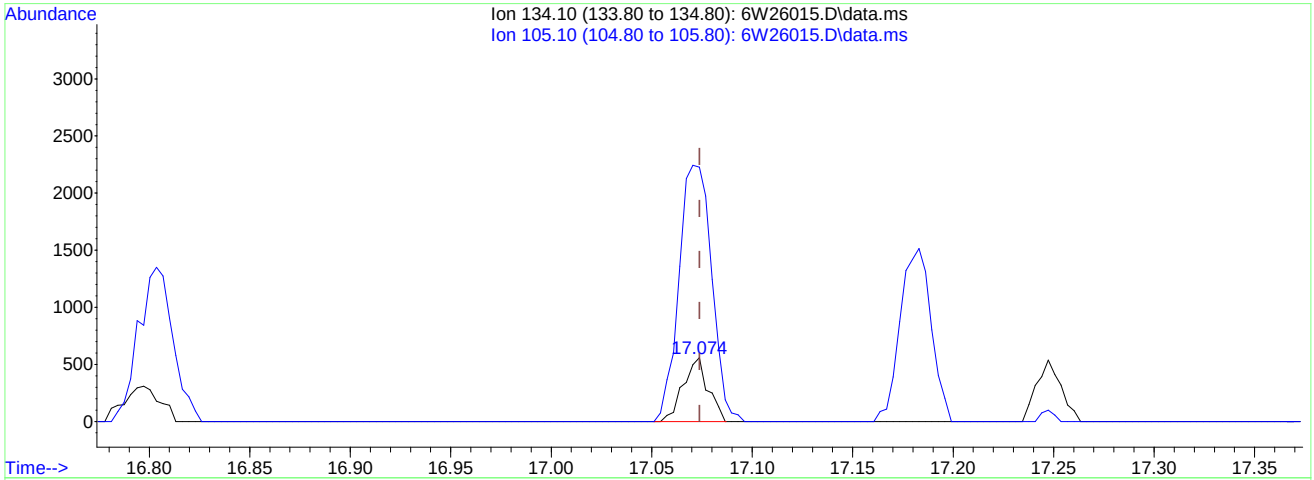
response 0

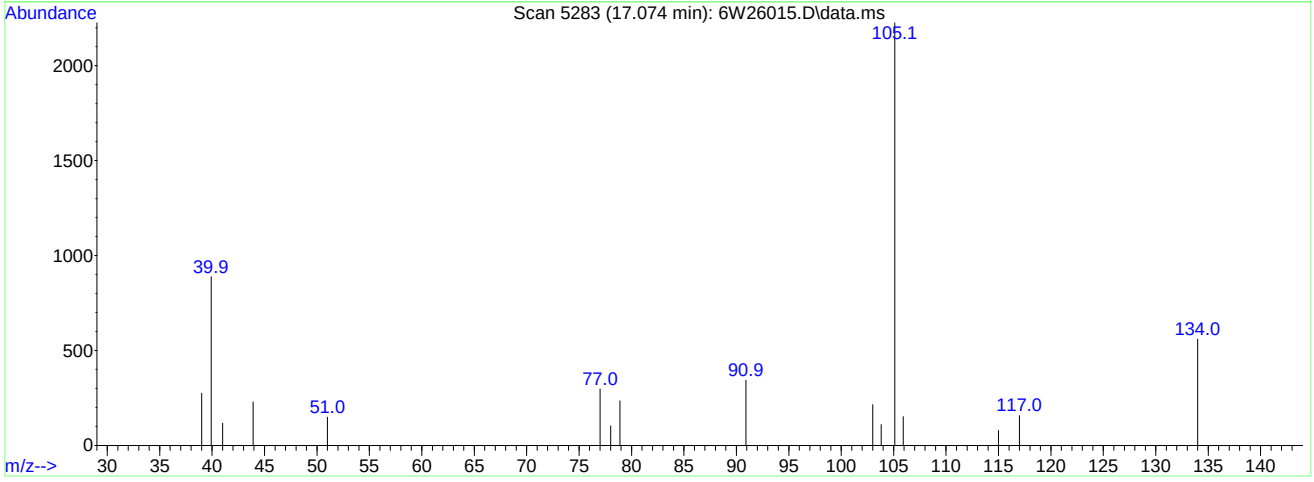
| Ion | Exp% | Act% |
|---|---|---|
| 134.10 | 100 | 0.00 |
| 105.10 | 496.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26015.D
Acq On : 15 Sep 2022 5:55 pm
Operator : thomash
Sample : ic1105-0.1
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 20 09:56:08 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Sep 20 08:13:42 2022
Response via : Initial Calibration




TIC: 6W26015.D\data.ms

(101) SEC-BUTYLBENZENE (T)

17.074min (-0.000) 0.06PPBV m

response 479

| Ion | Exp% | Act% |
|---|---|---|
| 134.10 | 100 | 100 |
| 105.10 | 496.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/21/22 13:59

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26016.D
Acq On : 16 Sep 2022 8:30 am
Operator : thomash
Sample : icv1105-10
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 21 12:48:40 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.341 | 128 | 42299 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.730 | 114 | 231469 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.585 | 117 | 173139 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.022 | 95 | 125739 | 9.94 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.698 | 65 | 36029 | 10.55 | PPBV | # | 78 |
| 4) CHLORODIFLUOROMETHANE | 1.708 | 67 | 16599 | 10.19 | PPBV | | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.717 | 116 | 68758 | 10.03 | PPBV | # | 99 |
| 6) DICHLORODIFLUOROMETHANE | 1.733 | 85 | 164216m | 8.35 | PPBV | | |
| 7) PROPYLENE | 1.717 | 41 | 49884 | 10.10 | PPBV | | 95 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.769 | 65 | 156963 | 9.04 | PPBV | # | 87 |
| 9) FREON 114 | 1.801 | 85 | 169765 | 8.92 | PPBV | | 90 |
| 10) CHLOROMETHANE | 1.775 | 52 | 23151 | 9.53 | PPBV | | 91 |
| 11) VINYL CHLORIDE | 1.830 | 62 | 72365 | 8.89 | PPBV | | 98 |
| 12) 1,3-BUTADIENE | 1.865 | 54 | 57011 | 9.23 | PPBV | # | 71 |
| 13) N-BUTANE | 1.881 | 43 | 117951 | 9.34 | PPBV | # | 91 |
| 14) BROMOMETHANE | 1.936 | 94 | 58178 | 9.50 | PPBV | | 100 |
| 15) CHLOROETHANE | 1.981 | 64 | 37152 | 9.32 | PPBV | | 97 |
| 16) DICHLOROFLUOROMETHANE | 2.004 | 67 | 151286 | 8.65 | PPBV | # | 96 |
| 17) ACETONITRILE | 2.068 | 41 | 74586 | 9.23 | PPBV | | 96 |
| 18) ACROLEIN | 2.103 | 56 | 31248 | 8.57 | PPBV | | 99 |
| 19) FREON 123 | 2.116 | 83 | 155087 | 9.19 | PPBV | | 99 |
| 20) FREON 123A | 2.132 | 117 | 81570 | 9.64 | PPBV | # | 61 |
| 21) TRICHLOROFLUOROMETHANE | 2.193 | 101 | 159615 | 8.87 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.209 | 45 | 170814 | 9.85 | PPBV | # | 98 |
| 23) ACETONE | 2.139 | 58 | 37682 | 9.34 | PPBV | # | 32 |
| 24) PENTANE | 2.299 | 42 | 82769 | 8.52 | PPBV | # | 94 |
| 25) IODOMETHANE | 2.357 | 142 | 135918 | 8.45 | PPBV | # | 84 |
| 26) 1,1-DICHLOROETHYLENE | 2.386 | 96 | 60644 | 9.55 | PPBV | # | 53 |
| 27) CARBON DISULFIDE | 2.521 | 76 | 191252 | 8.46 | PPBV | # | 89 |
| 28) ETHANOL | 2.007 | 45 | 50420 | 11.66 | PPBV | # | 97 |
| 29) BROMOETHENE | 2.074 | 106 | 56900 | 9.76 | PPBV | # | 97 |
| 30) ACRYLONITRILE | 2.274 | 52 | 54051 | 9.35 | PPBV | | 97 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 60046 | 8.68 | PPBV | # | 61 |
| 32) 3-CHLOROPROPENE | 2.463 | 76 | 32004 | 9.37 | PPBV | # | 8 |
| 33) FREON 113 | 2.521 | 151 | 94013 | 8.73 | PPBV | | 86 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 64179 | 9.22 | PPBV | # | 78 |
| 35) TERTIARY BUTYL ALCOHOL | 2.396 | 59 | 132973 | 8.42 | PPBV | # | 89 |
| 36) METHYL TERTIARY BUTYL ... | 2.888 | 73 | 177883 | 9.00 | PPBV | # | 93 |
| 37) TETRAHYDROFURAN | 3.653 | 72 | 31608 | 9.38 | PPBV | # | 51 |
| 38) HEXANE | 3.393 | 57 | 124311 | 8.98 | PPBV | # | 76 |
| 39) VINYL ACETATE | 2.930 | 86 | 16130 | 8.65 | PPBV | # | 1 |
| 40) 1,1-DICHLOROETHANE | 2.852 | 63 | 129531 | 8.89 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.039 | 72 | 35017 | 9.83 | PPBV | # | 9 |
| 42) CIS-1,2-DICHLOROETHENE | 3.254 | 96 | 67015 | 8.73 | PPBV | # | 77 |
| 43) DIISOPROPYL ETHER | 3.399 | 59 | 35584 | 9.44 | PPBV | # | 44 |
| 44) ETHYL ACETATE | 3.405 | 61 | 26858 | 9.68 | PPBV | # | 35 |
| 45) METHYL ACRYLATE | 3.389 | 55 | 156731 | 8.61 | PPBV | # | 99 |
| 46) CHLOROFORM | 3.422 | 83 | 146284 | 8.82 | PPBV | # | 92 |
| 47) 2,4-DIMETHYLPENTANE | 3.952 | 57 | 139254 | 8.98 | PPBV | # | 93 |
| 48) 1,1,1-TRICHLOROETHANE | 4.039 | 97 | 134958 | 9.02 | PPBV | # | 92 |
| 49) CARBON TETRACHLORIDE | 4.499 | 117 | 127026 | 8.79 | PPBV | | 99 |
| 50) 1,2-DICHLOROETHANE | 3.868 | 62 | 105153 | 8.98 | PPBV | # | 95 |
| 51) BENZENE | 4.380 | 78 | 206474 | 9.07 | PPBV | | 83 |
| 53) CYCLOHEXANE | 4.602 | 84 | 87921 | 9.45 | PPBV | # | 81 |
| 54) 2,3-DIMETHYLPENTANE | 4.875 | 71 | 47362 | 9.30 | PPBV | # | 64 |
| 55) TRICHLOROETHENE | 5.344 | 95 | 90035 | 9.32 | PPBV | | 91 |
| 56) 1,2-DICHLOROPROPANE | 5.097 | 63 | 86673 | 8.86 | PPBV | | 96 |
| 57) DIBROMOMETHANE | 5.058 | 174 | 75874 | 9.23 | PPBV | # | 84 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26016.D
Acq On : 16 Sep 2022 8:30 am
Operator : thomash
Sample : icv1105-10
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 21 12:48:40 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

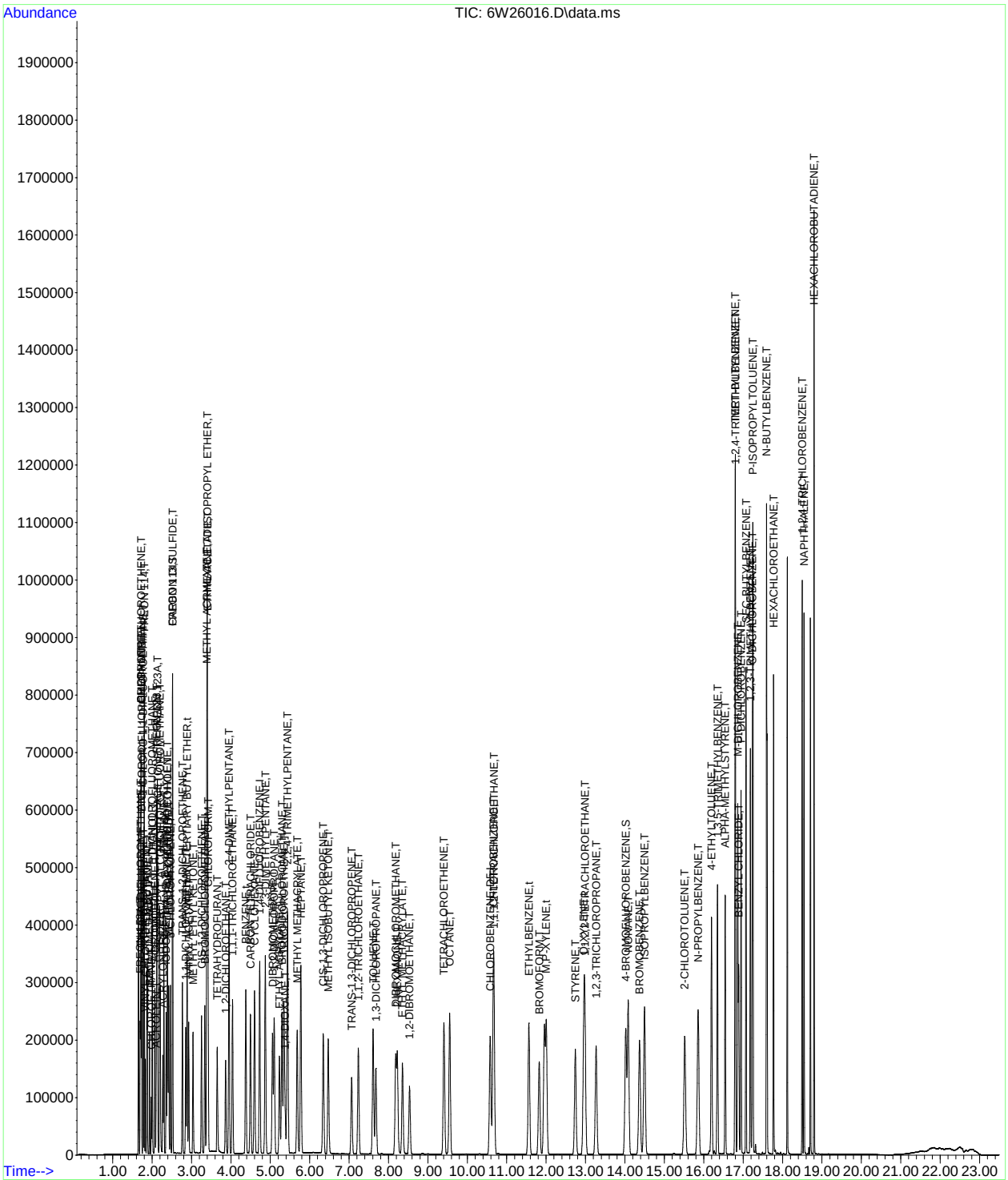
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.232 | 55 | 188211 | 9.34 | PPBV | # | 96 |
| 59) BROMODICHLOROMETHANE | 5.296 | 83 | 163286 | 9.08 | PPBV | | 96 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.438 | 57 | 389097 | 9.28 | PPBV | # | 98 |
| 61) 1,4-DIOXANE | 5.373 | 88 | 48019 | 10.01 | PPBV | # | 76 |
| 62) HEPTANE | 5.775 | 43 | 153009 | 10.91 | PPBV | # | 76 |
| 63) METHYL METHACRYLATE | 5.682 | 69 | 82099 | 11.16 | PPBV | # | 54 |
| 64) METHYL ISOBUTYL KETONE | 6.470 | 58 | 61804 | 10.61 | PPBV | # | 62 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.344 | 75 | 131487 | 12.06 | PPBV | # | 74 |
| 66) TOLUENE | 7.611 | 91 | 203661 | 9.27 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.682 | 76 | 112067 | 9.02 | PPBV | # | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.064 | 75 | 90277 | 8.65 | PPBV | # | 78 |
| 69) 1,1,2-TRICHLOROETHANE | 7.235 | 83 | 66362 | 9.76 | PPBV | | 96 |
| 70) 2-HEXANONE | 8.225 | 58 | 82938 | 10.97 | PPBV | # | 62 |
| 71) ETHYL METHACRYLATE | 8.351 | 69 | 108705 | 9.79 | PPBV | # | 75 |
| 72) TETRACHLOROETHENE | 9.405 | 164 | 74702 | 9.26 | PPBV | | 98 |
| 73) DIBROMOCHLOROMETHANE | 8.180 | 129 | 121466 | 8.98 | PPBV | | 99 |
| 74) 1,2-DIBROMOETHANE | 8.534 | 107 | 110303 | 8.94 | PPBV | | 100 |
| 75) OCTANE | 9.553 | 43 | 161540 | 9.48 | PPBV | # | 78 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.678 | 131 | 82348 | 8.89 | PPBV | # | 88 |
| 78) CHLOROBENZENE | 10.662 | 112 | 161536 | 8.90 | PPBV | | 93 |
| 79) ETHYLBENZENE | 11.563 | 91 | 265935 | 9.12 | PPBV | | 96 |
| 80) M,P-XYLENE | 12.000 | 91 | 419021 | 19.06 | PPBV | # | 63 |
| 81) O-XYLENE | 12.955 | 91 | 215811 | 9.53 | PPBV | | 92 |
| 82) STYRENE | 12.743 | 104 | 143603 | 8.96 | PPBV | | 94 |
| 83) NONANE | 14.083 | 43 | 175492 | 8.72 | PPBV | # | 76 |
| 84) BROMOFORM | 11.826 | 173 | 121663 | 9.24 | PPBV | | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.987 | 83 | 180401 | 8.95 | PPBV | | 97 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.270 | 75 | 132719 | 8.89 | PPBV | # | 99 |
| 88) ISOPROPYLBENZENE | 14.498 | 120 | 74163 | 9.70 | PPBV | # | 75 |
| 89) BROMOBENZENE | 14.370 | 77 | 158404 | 8.86 | PPBV | | 88 |
| 90) 2-CHLOROTOLUENE | 15.518 | 126 | 65193 | 9.36 | PPBV | | 98 |
| 91) N-PROPYLBENZENE | 15.855 | 120 | 75914 | 9.90 | PPBV | | 98 |
| 92) 4-ETHYLTOLUENE | 16.196 | 105 | 295515 | 9.83 | PPBV | | 98 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.347 | 105 | 243764 | 9.62 | PPBV | # | 95 |
| 94) ALPHA-METHYLSTYRENE | 16.543 | 118 | 102463 | 8.38 | PPBV | | 97 |
| 95) TERT-BUTYLBENZENE | 16.797 | 134 | 58012 | 9.42 | PPBV | | 95 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.804 | 105 | 261409 | 9.65 | PPBV | | 91 |
| 97) BENZYL CHLORIDE | 16.887 | 91 | 155945 | 7.31 | PPBV | # | 94 |
| 98) M-DICHLOROBENZENE | 16.865 | 146 | 168733 | 8.96 | PPBV | | 99 |
| 99) P-DICHLOROBENZENE | 16.945 | 146 | 167155 | 8.88 | PPBV | | 98 |
| 100) O-DICHLOROBENZENE | 17.234 | 146 | 164646 | 8.80 | PPBV | | 98 |
| 101) SEC-BUTYLBENZENE | 17.074 | 134 | 73668 | 9.62 | PPBV | | 90 |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.183 | 105 | 252878 | 9.56 | PPBV | | 95 |
| 103) P-ISOPROPYLTOLUENE | 17.247 | 134 | 80903 | 9.41 | PPBV | | 96 |
| 104) N-BUTYLBENZENE | 17.595 | 134 | 79327 | 9.81 | PPBV | | 74 |
| 105) HEXACHLOROETHANE | 17.771 | 117 | 92730 | 7.52 | PPBV | | 94 |
| 106) HEXACHLOROBUTADIENE | 18.800 | 225 | 146372 | 8.17 | PPBV | | 100 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.498 | 180 | 151861 | 8.85 | PPBV | | 99 |
| 108) NAPHTHALENE | 18.546 | 128 | 369235 | 8.92 | PPBV | | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26016.D
Acq On : 16 Sep 2022 8:30 am
Operator : thomash
Sample : icv1105-10
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 21 12:48:40 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



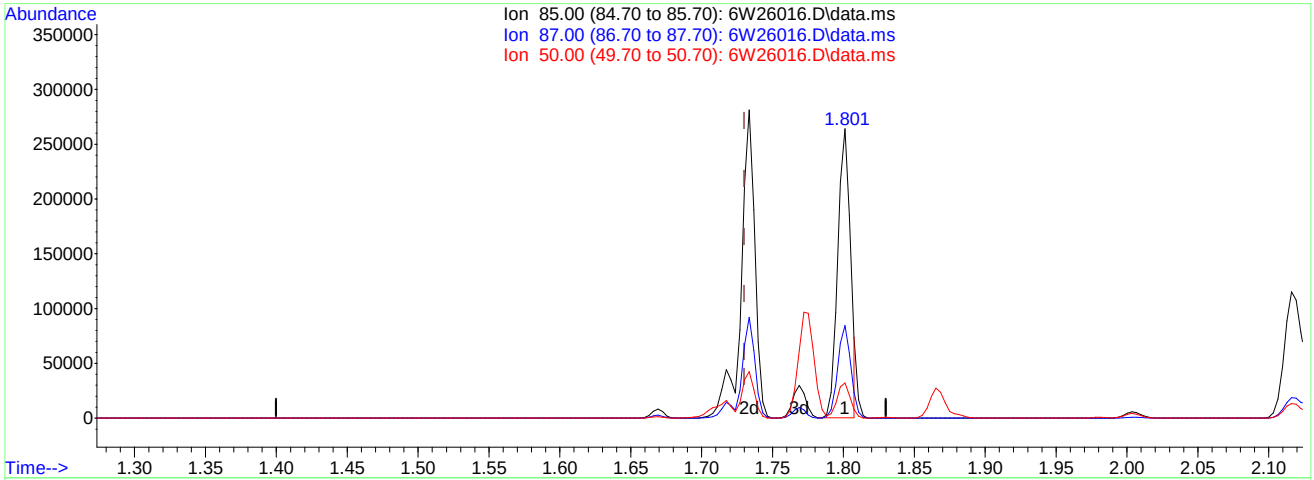
**Sample Number:** V6W1105-ICV1105 **Method:** TO-15
**Lab FileID:** 6W26016.D **Analyst approved:** 09/21/22 12:54 Thomas Hilbig
**Injection Time:** 09/16/22 08:30 **Supervisor approved:** 09/21/22 13:59 Kanya Veerawat

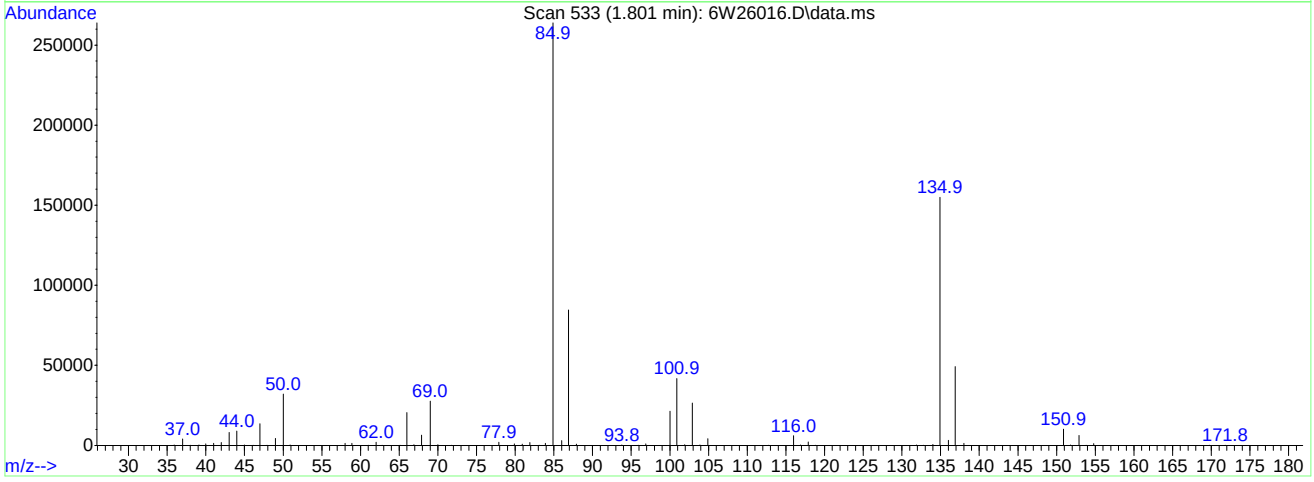
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.73 | Missed peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26016.D
Acq On : 16 Sep 2022 8:30 am
Operator : thomash
Sample : icv1105-10
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 21 07:55:47 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 07:55:06 2022
Response via : Initial Calibration




TIC: 6W26016.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.801min (+0.071) 8.42PPBV

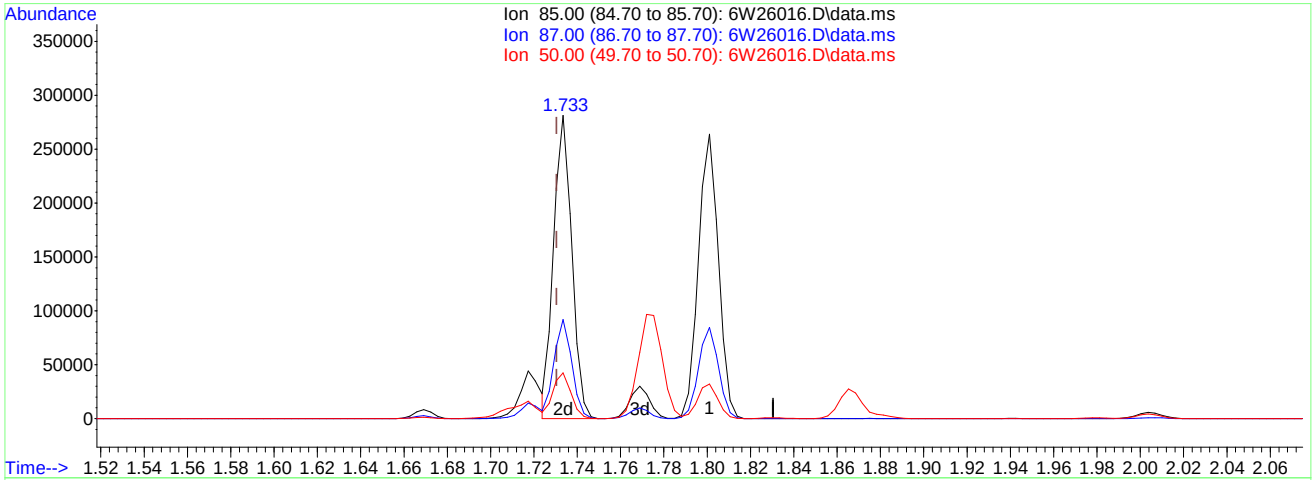
response 165674

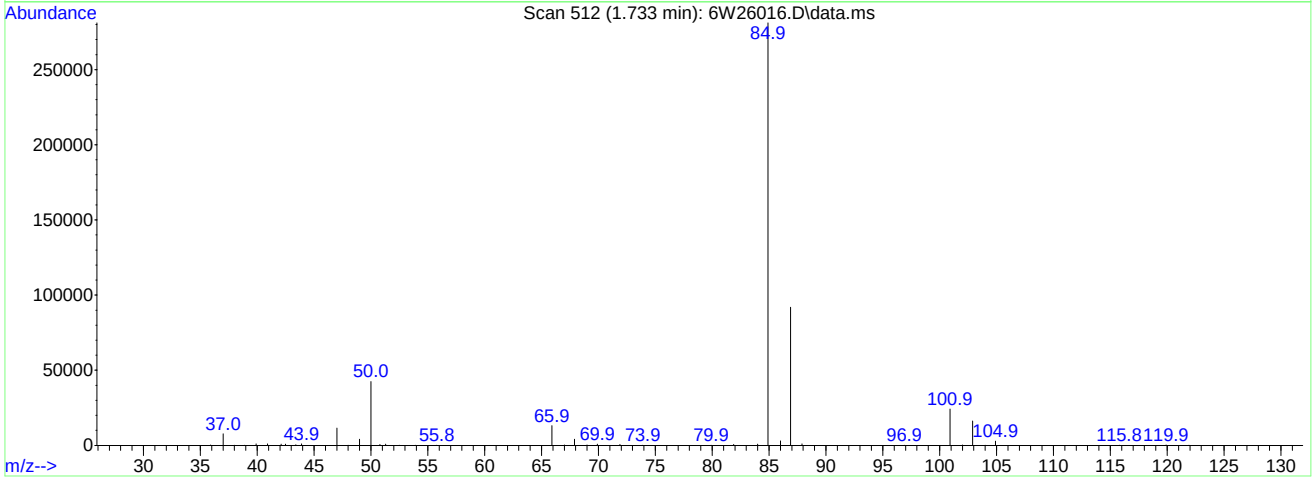
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 31.97 |
| 50.00 | 9.30 | 11.09 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26016.D
Acq On : 16 Sep 2022 8:30 am
Operator : thomash
Sample : icv1105-10
Misc : MS62094,V6W1105,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 21 12:48:07 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration




TIC: 6W26016.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.733min (+0.003) 8.35PPBV m

response 164216

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 32.20 | 32.25 |
| 50.00 | 9.30 | 11.19# |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/30/22 16:36

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26135.D
Acq On : 29 Sep 2022 1:13 pm
Operator : thomash
Sample : cc1105-10
Misc : MS62314,V6W1111,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 13:34:39 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) BROMOCHLOROMETHANE | 3.338 | 128 | 37706 | 10.00 | PPBV | # | 0.00 |
| 52) 1,4-DIFLUOROBENZENE | 4.731 | 114 | 220161 | 10.00 | PPBV | | 0.00 |
| 76) CHLOROBENZENE-D5 | 10.583 | 117 | 163775 | 10.00 | PPBV | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 87) 4-BROMOFLUOROBENZENE | 14.023 | 95 | 127840 | 10.68 | PPBV | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 3) FREON 152A | 1.695 | 65 | 40782 | 13.39 | PPBV | # | 82 |
| 4) CHLORODIFLUOROMETHANE | 1.708 | 67 | 18889 | 13.01 | PPBV | | 99 |
| 5) CHLOROTRIFLUOROETHENE | 1.718 | 116 | 75072 | 12.29 | PPBV | # | 99 |
| 6) DICHLORODIFLUOROMETHANE | 1.731 | 85 | 214186 | 12.21 | PPBV | # | 94 |
| 7) PROPYLENE | 1.715 | 41 | 52180 | 11.85 | PPBV | | 95 |
| 8) 1-CHLORO-1,1-DIFLUOROE... | 1.766 | 65 | 162401 | 10.49 | PPBV | # | 91 |
| 9) FREON 114 | 1.798 | 85 | 189660 | 11.18 | PPBV | # | 85 |
| 10) CHLOROMETHANE | 1.773 | 52 | 22401 | 10.34 | PPBV | | 94 |
| 11) VINYL CHLORIDE | 1.830 | 62 | 76324 | 10.52 | PPBV | | 98 |
| 12) 1,3-BUTADIENE | 1.866 | 54 | 58444 | 10.61 | PPBV | # | 77 |
| 13) N-BUTANE | 1.879 | 43 | 112231 | 9.97 | PPBV | | 94 |
| 14) BROMOMETHANE | 1.933 | 94 | 60329 | 11.05 | PPBV | | 99 |
| 15) CHLOROETHANE | 1.978 | 64 | 39068 | 11.00 | PPBV | | 98 |
| 16) DICHLOROFLUOROMETHANE | 2.004 | 67 | 168390 | 10.80 | PPBV | # | 97 |
| 17) ACETONITRILE | 2.065 | 41 | 75647 | 10.51 | PPBV | | 96 |
| 18) ACROLEIN | 2.101 | 56 | 26219 | 8.07 | PPBV | | 99 |
| 19) FREON 123 | 2.117 | 83 | 160515 | 10.67 | PPBV | | 97 |
| 20) FREON 123A | 2.133 | 117 | 78476 | 10.41 | PPBV | # | 60 |
| 21) TRICHLOROFLUOROMETHANE | 2.191 | 101 | 164818 | 10.27 | PPBV | | 100 |
| 22) ISOPROPYL ALCOHOL | 2.207 | 45 | 191615 | 12.39 | PPBV | # | 97 |
| 23) ACETONE | 2.139 | 58 | 44009 | 12.24 | PPBV | # | 67 |
| 24) PENTANE | 2.297 | 42 | 80688 | 9.32 | PPBV | # | 95 |
| 25) IODOMETHANE | 2.358 | 142 | 129508 | 9.03 | PPBV | | 88 |
| 26) 1,1-DICHLOROETHYLENE | 2.383 | 96 | 66367 | 11.72 | PPBV | # | 61 |
| 27) CARBON DISULFIDE | 2.519 | 76 | 222668 | 11.05 | PPBV | # | 92 |
| 28) ETHANOL | 2.007 | 45 | 41115 | 10.67 | PPBV | # | 95 |
| 29) BROMOETHENE | 2.072 | 106 | 60530 | 11.65 | PPBV | # | 95 |
| 30) ACRYLONITRILE | 2.271 | 52 | 55299 | 10.73 | PPBV | | 97 |
| 31) METHYLENE CHLORIDE | 2.422 | 84 | 66164 | 10.73 | PPBV | # | 70 |
| 32) 3-CHLOROPROPENE | 2.464 | 76 | 34831 | 11.44 | PPBV | # | 28 |
| 33) FREON 113 | 2.519 | 151 | 92297 | 9.62 | PPBV | # | 74 |
| 34) TRANS-1,2-DICHLOROETHENE | 2.769 | 96 | 71023 | 11.45 | PPBV | # | 83 |
| 35) TERTIARY BUTYL ALCOHOL | 2.396 | 59 | 153321 | 10.89 | PPBV | # | 89 |
| 36) METHYL TERTIARY BUTYL ... | 2.888 | 73 | 195890 | 11.12 | PPBV | # | 95 |
| 37) TETRAHYDROFURAN | 3.654 | 72 | 37040 | 12.34 | PPBV | # | 72 |
| 38) HEXANE | 3.390 | 57 | 124467 | 10.09 | PPBV | # | 79 |
| 39) VINYL ACETATE | 2.927 | 86 | 18308 | 11.01 | PPBV | # | 9 |
| 40) 1,1-DICHLOROETHANE | 2.853 | 63 | 133367 | 10.27 | PPBV | | 99 |
| 41) METHYL ETHYL KETONE | 3.036 | 72 | 38612 | 12.16 | PPBV | # | 44 |
| 42) CIS-1,2-DICHLOROETHENE | 3.252 | 96 | 71972 | 10.52 | PPBV | # | 81 |
| 43) DIISOPROPYL ETHER | 3.400 | 59 | 38261 | 11.39 | PPBV | | 67 |
| 44) ETHYL ACETATE | 3.406 | 61 | 27792 | 11.24 | PPBV | | 54 |
| 45) METHYL ACRYLATE | 3.390 | 55 | 161609 | 9.96 | PPBV | # | 99 |
| 46) CHLOROFORM | 3.419 | 83 | 160934 | 10.88 | PPBV | # | 95 |
| 47) 2,4-DIMETHYLPENTANE | 3.953 | 57 | 140920 | 10.19 | PPBV | | 94 |
| 48) 1,1,1-TRICHLOROETHANE | 4.039 | 97 | 143974 | 10.80 | PPBV | # | 94 |
| 49) CARBON TETRACHLORIDE | 4.499 | 117 | 131362 | 10.20 | PPBV | | 97 |
| 50) 1,2-DICHLOROETHANE | 3.866 | 62 | 110287 | 10.56 | PPBV | # | 96 |
| 51) BENZENE | 4.377 | 78 | 241686 | 11.90 | PPBV | | 88 |
| 53) CYCLOHEXANE | 4.599 | 84 | 97869 | 11.06 | PPBV | # | 83 |
| 54) 2,3-DIMETHYLPENTANE | 4.872 | 71 | 54590 | 11.27 | PPBV | | 74 |
| 55) TRICHLOROETHENE | 5.342 | 95 | 100691 | 10.96 | PPBV | | 86 |
| 56) 1,2-DICHLOROPROPANE | 5.097 | 63 | 96779 | 10.41 | PPBV | | 97 |
| 57) DIBROMOMETHANE | 5.052 | 174 | 79815 | 10.21 | PPBV | # | 77 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26135.D
Acq On : 29 Sep 2022 1:13 pm
Operator : thomash
Sample : cc1105-10
Misc : MS62314,V6W1111,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 13:34:39 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration

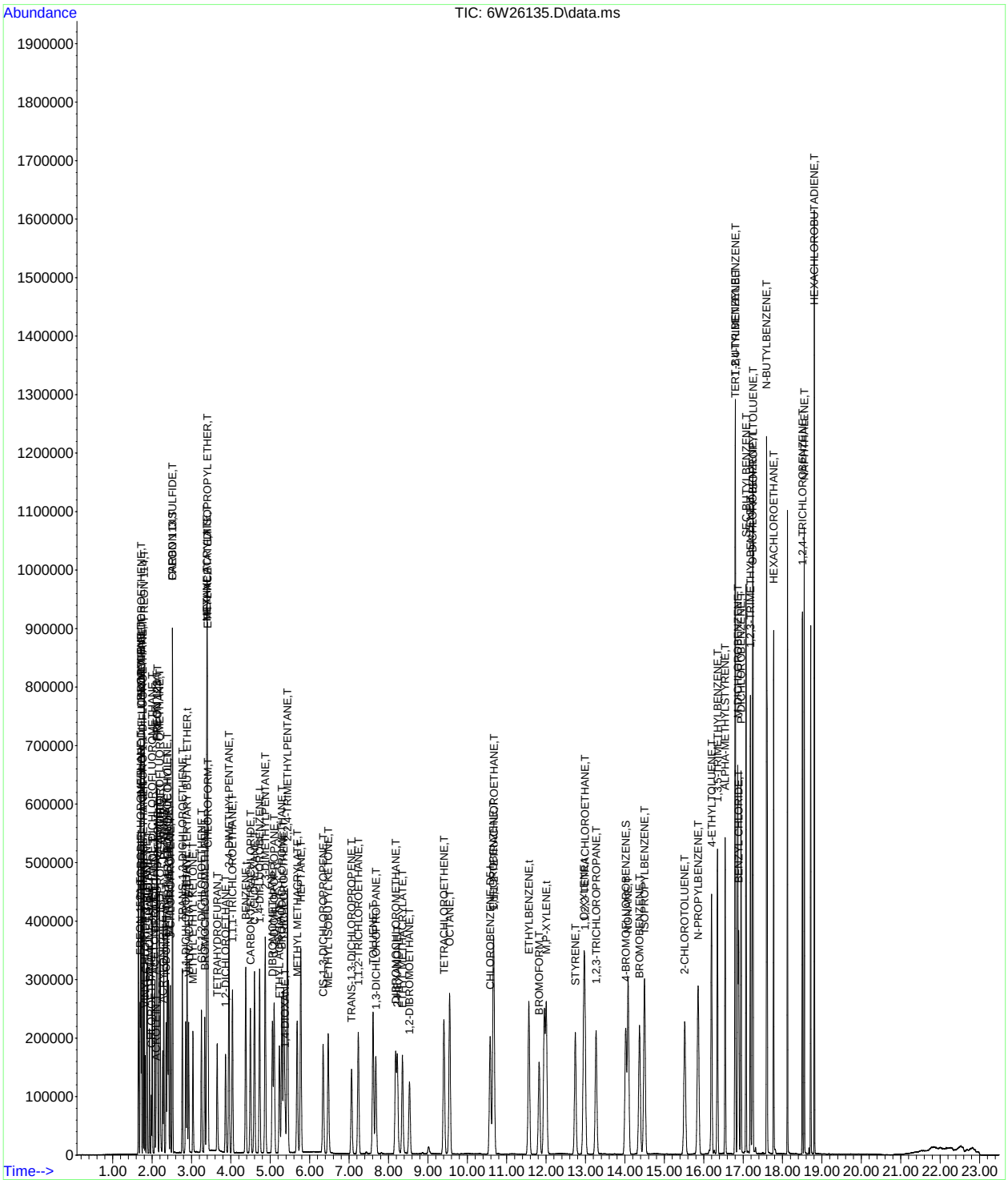
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 58) ETHYL ACRYLATE | 5.232 | 55 | 204562 | 10.67 | PPBV | # | 97 |
| 59) BROMODICHLOROMETHANE | 5.293 | 83 | 182494 | 10.67 | PPBV | | 99 |
| 60) 2,2,4-TRIMETHYLPENTANE | 5.438 | 57 | 421585 | 10.57 | PPBV | # | 98 |
| 61) 1,4-DIOXANE | 5.374 | 88 | 55489 | 12.16 | PPBV | # | 81 |
| 62) HEPTANE | 5.776 | 43 | 161687 | 12.12 | PPBV | # | 80 |
| 63) METHYL METHACRYLATE | 5.686 | 69 | 96228 | 13.75 | PPBV | # | 65 |
| 64) METHYL ISOBUTYL KETONE | 6.467 | 58 | 66029 | 11.92 | PPBV | # | 68 |
| 65) CIS-1,3-DICHLOROPROPENE | 6.341 | 75 | 125330 | 12.08 | PPBV | # | 79 |
| 66) TOLUENE | 7.608 | 91 | 231896 | 11.10 | PPBV | | 99 |
| 67) 1,3-DICHLOROPROPANE | 7.679 | 76 | 128612 | 10.88 | PPBV | # | 98 |
| 68) TRANS-1,3-DICHLOROPROPENE | 7.062 | 75 | 101405 | 10.22 | PPBV | # | 81 |
| 69) 1,1,2-TRICHLOROETHANE | 7.232 | 83 | 76492 | 11.83 | PPBV | | 95 |
| 70) 2-HEXANONE | 8.226 | 58 | 81227 | 11.30 | PPBV | # | 66 |
| 71) ETHYL METHACRYLATE | 8.354 | 69 | 123023 | 11.65 | PPBV | # | 78 |
| 72) TETRACHLOROETHENE | 9.409 | 164 | 74299 | 9.69 | PPBV | | 100 |
| 73) DIBROMOCHLOROMETHANE | 8.181 | 129 | 118702 | 9.23 | PPBV | | 100 |
| 74) 1,2-DIBROMOETHANE | 8.534 | 107 | 118199 | 10.08 | PPBV | | 100 |
| 75) OCTANE | 9.550 | 43 | 178769 | 11.03 | PPBV | # | 78 |
| 77) 1,1,1,2-TETRACHLOROETHANE | 10.676 | 131 | 81724 | 9.33 | PPBV | # | 80 |
| 78) CHLOROBENZENE | 10.656 | 112 | 172018 | 10.02 | PPBV | | 90 |
| 79) ETHYLBENZENE | 11.563 | 91 | 306979 | 11.13 | PPBV | | 94 |
| 80) M,P-XYLENE | 12.004 | 91 | 473028 | 22.74 | PPBV | # | 64 |
| 81) O-XYLENE | 12.959 | 91 | 240926 | 11.25 | PPBV | | 93 |
| 82) STYRENE | 12.740 | 104 | 163882 | 10.82 | PPBV | | 94 |
| 83) NONANE | 14.078 | 43 | 195446 | 10.27 | PPBV | # | 78 |
| 84) BROMOFORM | 11.820 | 173 | 112879 | 9.06 | PPBV | | 99 |
| 85) 1,1,2,2-TETRACHLOROETHANE | 12.984 | 83 | 205598 | 10.78 | PPBV | # | 98 |
| 86) 1,2,3-TRICHLOROPROPANE | 13.270 | 75 | 156626 | 11.09 | PPBV | | 100 |
| 88) ISOPROPYLBENZENE | 14.499 | 120 | 81699 | 11.30 | PPBV | # | 68 |
| 89) BROMOBENZENE | 14.370 | 77 | 185582 | 10.98 | PPBV | # | 78 |
| 90) 2-CHLOROTOLUENE | 15.518 | 126 | 65866 | 9.99 | PPBV | | 99 |
| 91) N-PROPYLBENZENE | 15.856 | 120 | 79748 | 10.99 | PPBV | | 94 |
| 92) 4-ETHYLTOLUENE | 16.200 | 105 | 325710 | 11.45 | PPBV | | 94 |
| 93) 1,3,5-TRIMETHYLBENZENE | 16.348 | 105 | 269051 | 11.23 | PPBV | | 92 |
| 94) ALPHA-METHYLSTYRENE | 16.544 | 118 | 116181 | 10.04 | PPBV | | 95 |
| 95) TERT-BUTYLBENZENE | 16.798 | 134 | 57942 | 9.94 | PPBV | | 88 |
| 96) 1,2,4-TRIMETHYLBENZENE | 16.804 | 105 | 291386 | 11.37 | PPBV | | 85 |
| 97) BENZYL CHLORIDE | 16.888 | 91 | 191211 | 9.48 | PPBV | # | 91 |
| 98) M-DICHLOROBENZENE | 16.865 | 146 | 171132 | 9.61 | PPBV | | 97 |
| 99) P-DICHLOROBENZENE | 16.946 | 146 | 171583 | 9.64 | PPBV | | 97 |
| 100) O-DICHLOROBENZENE | 17.238 | 146 | 167733 | 9.48 | PPBV | | 97 |
| 101) SEC-BUTYLBENZENE | 17.074 | 134 | 73399m | 10.14 | PPBV | | |
| 102) 1,2,3-TRIMETHYLBENZENE | 17.184 | 105 | 281674 | 11.26 | PPBV | # | 92 |
| 103) P-ISOPROPYLTOLUENE | 17.251 | 134 | 82195 | 10.11 | PPBV | | 89 |
| 104) N-BUTYLBENZENE | 17.595 | 134 | 78326 | 10.24 | PPBV | # | 42 |
| 105) HEXACHLOROETHANE | 17.775 | 117 | 105312 | 9.02 | PPBV | # | 90 |
| 106) HEXACHLOROBUTADIENE | 18.807 | 225 | 140337 | 8.28 | PPBV | | 99 |
| 107) 1,2,4-TRICHLOROBENZENE | 18.505 | 180 | 140236 | 8.64 | PPBV | | 99 |
| 108) NAPHTHALENE | 18.550 | 128 | 394851 | 10.09 | PPBV | | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26135.D
Acq On : 29 Sep 2022 1:13 pm
Operator : thomash
Sample : cc1105-10
Misc : MS62314,V6W1111,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 30 13:34:39 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



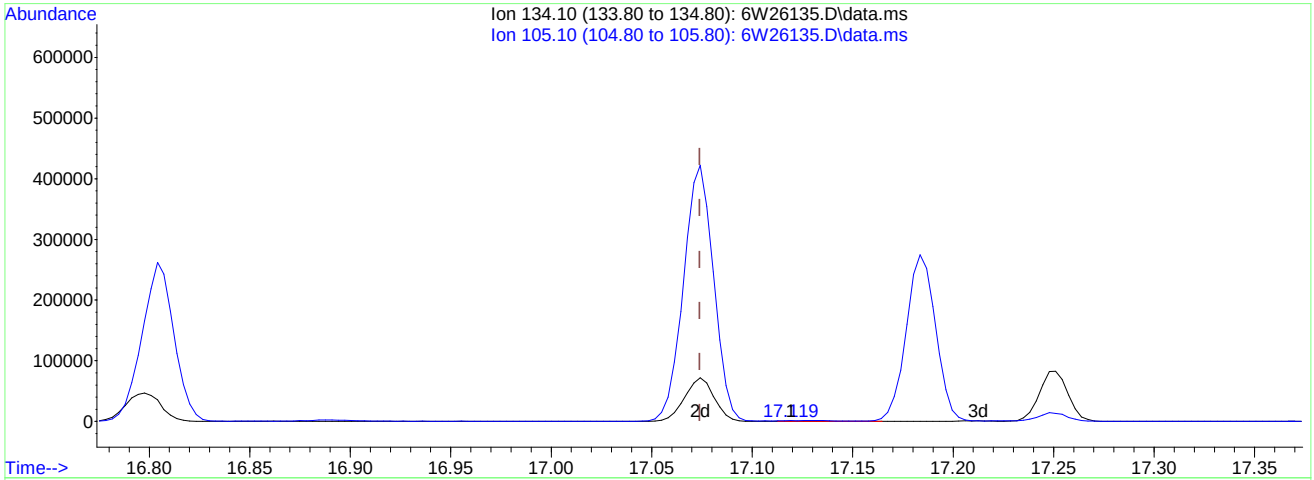
**Sample Number:** V6W1111-CC1105 **Method:** TO-15
**Lab FileID:** 6W26135.D **Analyst approved:** 09/30/22 13:58 William Cruser
**Injection Time:** 09/29/22 13:13 **Supervisor approved:** 09/30/22 16:36 Kanya Veerawat

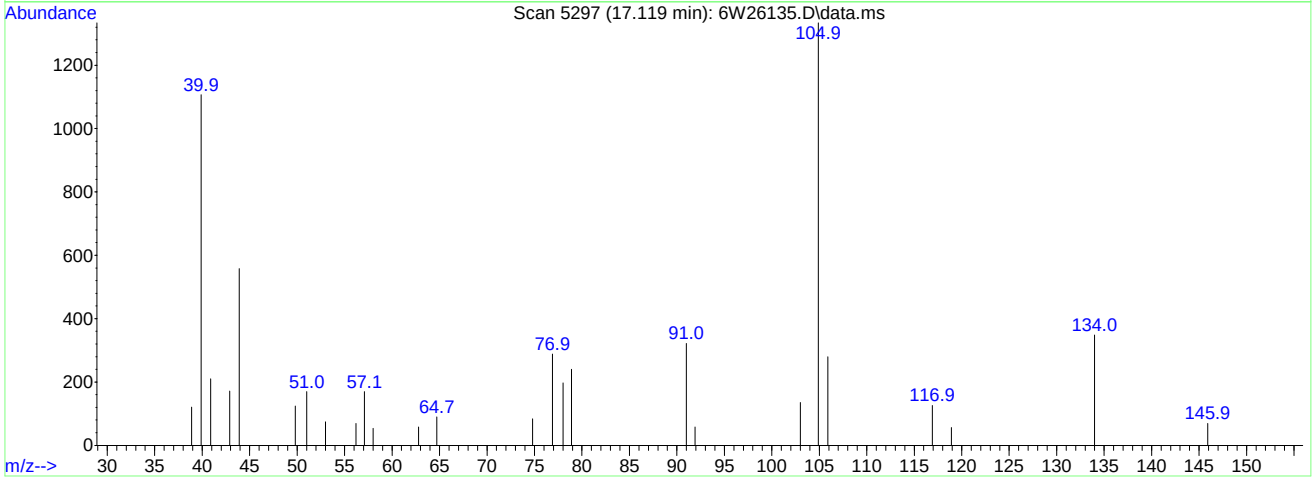
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| sec-Butylbenzene | 135-98-8 | | 17.07 | Missed peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26135.D
Acq On : 29 Sep 2022 1:13 pm
Operator : thomash
Sample : cc1105-10
Misc : MS62314,V6W1111,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 13:57:03 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration




TIC: 6W26135.D\data.ms

(101) SEC-BUTYLBENZENE (T)

17.119min (+0.045) 0.07PPBV

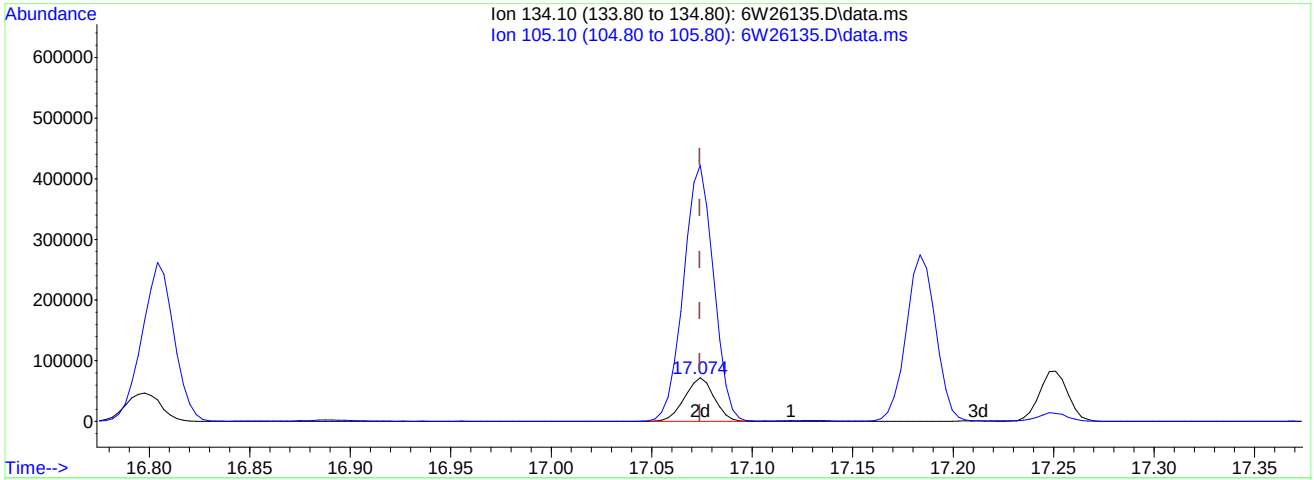
response 500

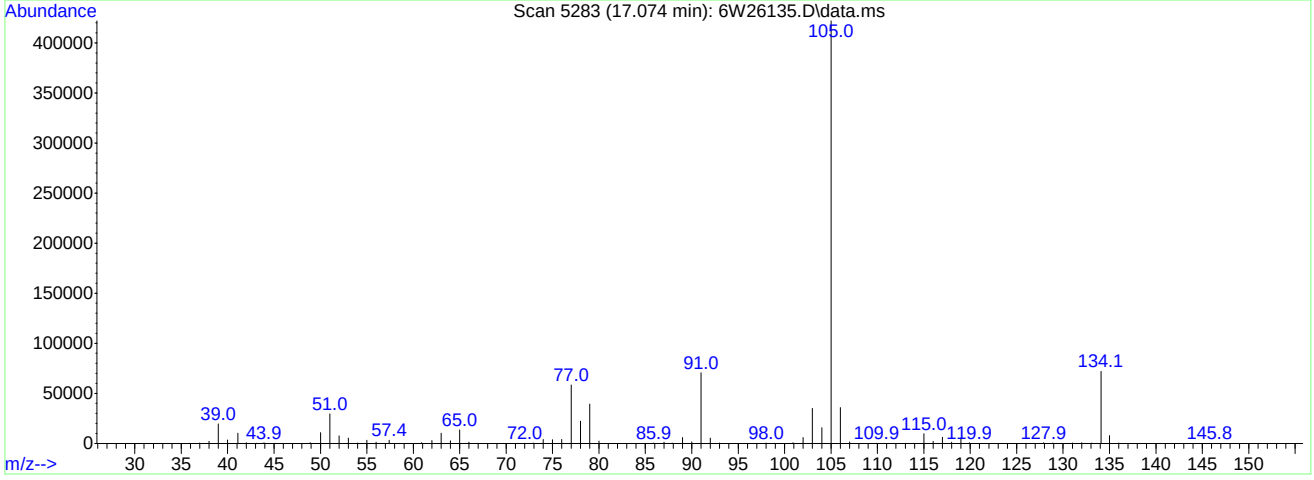
| Ion | Exp% | Act% |
|---|---|---|
| 134.10 | 100 | 100 |
| 105.10 | 496.10 | 476.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26135.D
Acq On : 29 Sep 2022 1:13 pm
Operator : thomash
Sample : cc1105-10
Misc : MS62314,V6W1111,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 13:57:03 2022
Quant Method : C:\msdchem\1\methods\M6W1105.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration




TIC: 6W26135.D\data.ms

(101) SEC-BUTYLBENZENE (T)

17.074min (+0.000) 10.14PPBV m

response 73399

| Ion | Exp% | Act% |
|---|---|---|
| 134.10 | 100 | 100 |
| 105.10 | 496.10 | 3.24# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

SGS

# TO-15

Batch ID: V2W2619

Date: 4/26/22

Analyst Signature:

Columns: DB-1 30m x 0.25mm x 0.5µm
Method: 2W7015.M
Seq. File: 2W20220428.S
Initial Cal. Method: M2W2619.M

## AS Data

Method: 7015.7200A.QD

**Standard Data**

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| AS9510 | 7015 LCS (A977) | 40ppbv |

**Standard Data**

| Lot # | Description | Conc. |
|---|---|---|
| AS9108 | Int/Surr. | 100ppbv |
| AS9511 | 7015 STD (A971) | 40ppbv |
| AS9507 | 7015 STD (A980) | 1.0ppbv |
| AS9507 | 7015 LCS (A965) | 40ppbv |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date: 5/2/2022

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 2W58803 | IB | | A852 | 100 | | | | | — | |
| 3 | 2W58804 | IB | | A952 | 100 | | | | | — | |
| 1 | 2W58805 | BFB | | ~~TH A1261~~ A980 | 20 | | | | | OK | 12:38pm |
| 1 | 2W58806 | IC2619-0.04 | | ~~TH A1261~~ A980 | 16 | | | ✓ | ✓ | OK | |
| 1 | 2W58807 | IC2619-0.1 | | ~~TH A1261~~ A980 | 40 | | | ✓ | ✓ | OK | |
| 1 | 2W58808 | IC268-0.2 | | ~~TH A1261~~ A980 | 80 | | | ✓ | ✓ | OK | |
| 1 | 2W58809 | IC2619-0.5 | | ~~TH A1261~~ A980 | 200 | | | ✓ | ✓ | OK | |
| 2 | 2W58810 | IC2619-5 | | A971 | 50 | | | ✓ | ✓ | OK | |
| 2 | 2W58811 | ICC2619-10 | | A971 | 100 | | | ✓ | ✓ | OK | |
| 2 | 2W58812 | IC2619-20 | | A971 | 200 | | | ✓ | ✓ | OK | |
| 2 | 2W58813 | IC2619-40 | | A971 | 400 | | | ✓ | ✓ | OK | |
| 2 | 2W58814 | IC2619-50 | | A971 | 500 | | | ✓ | ✓ | OK | |
| 3 | 2W58815 | IB | | A952 | 100 | | | | | — | |
| 3 | 2W58816 | IB | | A952 | 100 | | | | | — | |
| 5 | 2W58817 | ICV2619-10 | | A965 | 100 | | | | | RR | |
| 3 | 2W58818 | IB | | A952 | 100 | | | | | — | |
| 4 | 2W58819 | ICV2619-10 | | A977 | 100 | | | ✓ | ✓ | OK | |

TH 4/27/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

# TO-15

Batch ID: V2W2637

Date: 5/14/2022

Analyst Signature: [signature]

Columns: DB-1: 30m x 0.25mm x 0.5μm
Method: 2WTO15.M
Seq. File: 2W20220514.S
Initial Cal. Method: M2W2619.M

## AS Data

Method: TO15.7200A.CTD

### Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

### Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| AS9188 | IS/SS | 100ppbv |
| AS9511 | TO15 STD (A971) | 40ppbv |
| | | |
| | | |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: [signature] Date: 5/18/22

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2W59296 | BFB | | OPEN | 400 | | | | | OK | T= 14:24 |
| 2 | 2W59297 | CC 2619-10 | | A971 | 100 | | | — | — | NG | CLOSED VALVE |
| 2 | 2W59298 | CC2619-10 | | A971 | 100 | | | ✓ | ✓ | OK | ↓R115 |
| 2 | 2W59299 | BS | | A971 | 100 | | | ✓ | ✓ | OK | ↑HCBD & R142B; ↓R115 |
| 2 | 2W59300 | BSD | | A971 | 100 | | | ✓ | ✓ | OK | ↑R142B, NONANE, HCBD |
| 3 | 2W59301 | IB | | A959 | 100 | | | — | — | — | |
| 3 | 2W59302 | MB | | A959 | 400 | | + | ✓ | ✓ | OK | |
| 4 | 2W59303 | JD43130-1 | STD+ MS58252 | A805 | 50 | 1 | | ✓ | ✓ | OK/DL | |
| 5 | 2W59304 | JD41679-4 | STD, NAP MS58252 | A1575 | 100 | 1 | | ✓ | ✓ | OK/DL | |
| 6 | 2W59305 | JD41679-3 | ✓ | A1598 | 40 | 1 | | ✓ | ✓ | OK/DL | |
| 7 | 2W59306 | JD44674-1 | STD MS58996 | A764 | 100 | 1 | | ✓ | ✓ | OK | |
| 7 | 2W59307 | JD44674-1dup | ✓ | A764 | 100 | 1 | | ✓ | ✓ | OK | |
| 3 | 2W59308 | IB | | | 20 | | | — | — | — | |
| 8 | 2W59309 | JD44710-3 | SL MS58996 | TBAG, TDAG | 80 | 1000 | | ✓ | ✓ | OK ~~/DL~~ | TH 5/18/22 |
| 3 | 2W59310 | IB | | | 20 | | | — | — | — | |
| 9 | 2W59311 | JD42338-1 | STD+ MS57951 | A545 | 40 | 1 | + | ✓ | ✓ | OK/DL | ↑2,2,4-TMP OVERCAL RR=20cc |
| 10 | 2W59312 | JD42338-2 | ✓ | M450, TBAG BK | ~~100~~ 50 | ~~100~~ 123 | + | — | — | NOT USED/DL | |
| 10 | 2W59313 | JD42338-2 | ✓ | M450, TBAG | ~~50~~ 100 | ~~100~~ 123 | + | ✓ | ✓ | OK/DL | |
| 11 | 2W59314 | SCC, CP11732 | ~~A236~~ | A236 | 400 | | | — | — | NOT USED | |
| 11 | 2W59315 | SCC, CP11732 | | A236 | 400 | | | ✓ | ✓ | OK | |
| 12 | 2W59316 | SCC, CP11732 | | A887 | 400 | | | ✓ | ✓ | OK | |
| 13 | 2W59317 | SCC, CP11732 | | A324 | 400 | | | ✓ | ✓ | OK | |
| 14 | 2W59318 | JD42517-1 | STD MS58010 | A786, TBAG | 200 | 500 | | — | — | RR/DL | TOO DILUTE RR= 400 |
| 15 | 2W59319 | SCC, CP11732 | | M409 | 400 | | | ✓ | ✓ | OK | |
| 14 | 2W59320 | JD42517-1 | STD MS58010 | A786, TBAG BK | ~~400~~ 386 387 | 500 | | ✓ | ✓ | RR/DL | |

[signature] 5/15/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

DAYT-AIR-0006-06-FORM-TO15 Instrument Log

49

1/9/18

7.8.2

7

SGS

# TO-15

Batch ID: V2W2709

Date: 8/19/22

Analyst Signature:

Columns: DB-1 30mx0.25mmx0.5μm
Method: 2WTO15.M
Seq. File: 2W20220819.S
Initial Cal. Method: M2W2709.M

## AS Data

Method: TO15, 7200A.CTD

**Standard Data**

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

**Standard Data**

| Lot # | Description | Conc. |
|---|---|---|
| A51188 | Int/Surr. | 100ppbv |
| A59570 | TO15 STD (A1784) | 40ppbv |
| A59580 | TO15 LCS (A965) | 40ppbv |
| A59569 | TO15 STD (A1810) | 2ppbv |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date: 8/22/2022

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 2W61006 | IB | | A962 | 20 | | | | | | |
| 3 | 2W61007 | IB | | A962 | 20 | | | | | | |
| 3 | 2W61008 | IB | | A962 | 20 | | | | | | |
| 1 | 2W61009 | BFB | | A1810 | 20 | | | | | OK | T=10:50 |
| 1 | 2W61010 | IC2709-0.04 | | A1810 | 8 | | | ✓ | ✓ | OK | |
| 1 | 2W61011 | IC2709-0.1 | | A1810 | 20 | | | ✓ | ✓ | OK | |
| 1 | 2W61012 | IC2709-0.2 | | A1810 | 40 | | | ✓ | ✓ | OK | |
| 1 | 2W61013 | IC2709-0.5 | | A1810 | 100 | | | ✓ | ✓ | OK | |
| 2 | 2W61014 | IC2709-0.5 | | A1784 | 5 | | | | | | |
| 2 | 2W61015 | IC2709-5 | | A1784 | 50 | | | ✓ | ✓ | OK | |
| 2 | 2W61016 | IC2709-10 | | A1784 | 100 | | | ✓ | ✓ | OK | |
| 2 | 2W61017 | IC2709-20 | | A1784 | 200 | | | ✓ | ✓ | OK | |
| 2 | 2W61018 | IC2709-40 | | A1784 | 400 | | | ✓ | ✓ | OK | |
| 2 | 2W61019 | IC2709-50 | | A1784 | 500 | | | ✓ | ✓ | OK | |
| 3 | 2W61020 | IB | | A962 | 20 | | | | | | |
| 3 | 2W61021 | IB | | A962 | 20 | | | | | | |
| 4 | 2W61022 | ICV2709-10 | | A965 | 100 | | | ✓ | ✓ | OK | |

8/22/2022

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

# TO-15

Batch ID: V2W2710

Date: 8/24/2022

Analyst Signature:

Columns: DB-1: 30m x 0.25mm x 0.5μm
Method: 2WTO15.M
Seq. File: 2W20220824 S
Initial Cal. Method: M2W2709.M

## AS Data

Method: TO15.7200A.CTD

Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| AS9188 | IS/SS | 100 ppbv |
| AS9570 | TO15 SSD (A1784) | 40 ppbv |
| | | |
| | | |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date: 9/22/22

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2W61023 | BFB | | | | | | | | OK | T= 19:28 |
| 2 | 2W61024 | CC2709-10 | | | | | | ✓ | ✓ | OK | |
| 2 | 2W61025 | BS | | | | | | ✓ | ✓ | OK | |
| 2 | 2W61026 | BSD | | | | | | ✓ | ✓ | OK | |
| 3 | 2W61027 | IB | | | | | | | | | |
| 3 | 2W61028 | MB | | | | | | ✓ | ✓ | OK | |
| 4 | 2W61029 | scc, CP11857 | | A1602 | 400 | | | — | — | NG | 4ETOH = 20ppbv RECLEAN |
| 5 | 2W61030 | scc, CP11851 | | A485 | 400 | | | ✓ | ✓ | OK | |
| 6 | 2W61031 | scc, CP11842 | | A896 | 400 | | | ✓ | ✓ | OK | |
| 7 | 2W61032 | scc, CP11827 | | A1097 | 400 | | | ✓ | ✓ | OK | |
| 8 | 2W61033 | scc, CP11833 | | A1065 | 400 | | | ✓ | ✓ | OK | |
| 9 | 2W61034 | scc, CP11853 | | A1057 | 400 | | | ✓ | ✓ | OK | |
| 10 | 2W61035 | scc, CP11854 | | M141 | 400 | | | ✓ | ✓ | OK | |
| 11 | 2W61036 | scc, CP11856 | | A1329 | 400 | | | ✓ | ✓ | OK | |
| 12 | 2W61037 | scc, CP11848 | | A497 | 100 | | | ✓ | ✓ | OK | |
| 13 | 2W61038 | scc, CP11848 | | A1123 | 100 | | | ✓ | ✓ | OK | |
| 14 | 2W61039 | scc, CP11848 | | A701 | 100 | | | ✓ | ✓ | OK | |
| 15 | 2W61040 | scc, CP11849 | | A416 | 100 | | | ✓ | ✓ | OK | |
| 16 | 2W61041 | scc, CP11849 | | A1210 | 100 | | | ✓ | ✓ | OK | |
| 1 | 2W61042 | scc, CP11849 | | A1505 | 100 | | | ✓ | ✓ | OK | |

8/25/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

# TO-15

Batch ID: V2W2714

Date: 8/30/22

Analyst Signature:

Columns: DB-1 50m x 0.25mm x 0.5µm

Method: 2wTO15.m

Seq. File: 2w20220830.s

Initial Cal. Method: m2w2709.m

## AS Data

Method: TO15.7200A.CTD

### Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

### Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| AS9138 | Int/Surr | 100ppbv |
| AS9570 | TO15STD (A1784) | 4ppbv |
| AS9577 | TO15STD (A1804) | 2ppbv |
| | | |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteri of SGS SOP EQA044.

Supervisor Signature: Date: 9/1/22

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2w61139 | BFB | | OPEN POSITION | 400 | | | | | OK | T=8:49AM |
| 2 | 2w61140 | CC2709-10 | | A1784 | 100 | | | ✓ | ✓ | OK | |
| 2 | 2w61141 | BS | | A1784 | 100 | | | ✓ | ✓ | OK | |
| 2 | 2w61142 | BSD | | A1784 | 100 | | | ✓ | ✓ | OK | |
| 3 | 2w61143 | IB | | A962 | 100 | | | | | — | |
| 3 | 2w61144 | MB | | A962 | 400 | | + | ✓ | ✓ | OK | |
| 4 | 2w61145 | JD50169-1 | NYLL NG42A+20 | A1842 | 100 | 1 | + | ✓ | ✓ | OK/DL | OVOCAL PR=20mL |
| 5 | 2w61146 | JD50169-2 | MS61441 | A1574 | 500 | 1 | + | ✓ | ✓ | OK/DL | TOLUENE ↑ PR=200mL |
| 6 | 2w61147 | JD50411-1 | STD+ MS61582 | A1066 | 400 | 1 | + | ✓ | ✓ | OK | |
| 7 | 2w61148 | JD50411-2 | ✓ | AZ004 | 400 | 1 | + | ✓ | ✓ | OK/DL | ACETONE ↑ PR=100mL |
| 3 | 2w61149 | IB | | A962 | 20 | | | | | — | |
| 8 | 2w61150 | JD37733-5A | | A1804 | 20 | | | | | | |
| 8 | 2w61151 | JD37733-5B | | A1804 | 40 | | | | | | 0.1 LOQ |
| 9 | 2w61152 | JD50792-1 | STD MS61755 | A1000 | 400 | 1 | | ✓ | ✓ | | 0.2 LOQ |
| 10 | 2w61153 | JD50792-2 | ✓ | A332 | 400 | 1 | | ✓ | ✓ | OK | |
| 11 | 2w61154 | JD50792-3 | ✓ | A665 | 400 | 1 | | ✓ | ✓ | OK | |
| 12 | 2w61155 | JD50792-4 | ✓ | A1849 | 400 | 1 | | ✓ | ✓ | OK | |
| 12 | 2w61156 | JD50792-4DUP | ✓ | A1849 | 400 | 1 | | ✓ | ✓ | OK | |
| 13 | 2w61157 | JD50792-5 | ✓ | A1861 | 400 | 1 | | ✓ | ✓ | OK | |
| 14 | 2w61158 | JD50792-6 | ✓ | A1850 | 400 | 1 | | ✓ | ✓ | OK | |
| 15 | 2w61159 | JD50792-7 | ✓ | A190 | 620 | 1.55 | | ✓ | ✓ | OK/DL | ACETONE ↑ PR=200mL |
| 16 | 2w61160 | JD50675-1 | STD MS61680 | A1046 | 40 | 1 | | — | — | — | TOO DILUTE PR=4x |
| 1 | 2w61161 | JD50675-2 | ✓ | A204 | 40 | 1 | | — | — | — | TOO DILUTE PR=4x |
| 2 | 2w61162 | JD50675-3 | ✓ | M132 | 608 | 1.52 | | ✓ | ✓ | OK/DL | ACETONE ↑ PR=100mL |
| 3 | 2w61163 | JD50675-4 | ✓ | A2012 | 632 | 1.58 | | — | — | PR | VALVE CLOSED |
| 4 | 2w61164 | JD50675-5 | ✓ | A1853 | 632 | 1.58 | | ✓ | ✓ | OK | |
| 5 | 2w61165 | JD50411-3 | STD+ MS61582 | A752 | 400 | 1 | + | ✓ | ✓ | OK | |
| 6 | 2w61166 | JD50411-4 | ✓ | A1561 | 100 | 1 | + | ✓ | ✓ | OK | |
| 7 | 2w61167 | JD50411-6 | ✓ | A1956 | 100 | 1 | + | ✓ | ✓ | OK | |
| 8 | 2w61168 | JD50411-5 | ✓ | A1408 | 5 | 1 | + | ✓ | ✓ | OK/DL | |

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

# TO-15

Batch ID: V2W2714(CONT.)

Date: 8/30/2022

Analyst Signature:

Columns: DB-1 30m×0.25mm×0.5μm
Method: 2WTO15.m
Seq. File: 2W20220830.S
Initial Cal. Method: new2709.m

## AS Data

Method: TO15 7200A CTD

Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| AS9188 | int/surr | 100ppbv |
| AS9510 | TO15 STD (1784) | 40ppbv |
| | | |
| | | |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date:

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 2W61169 | JD50169-1 | NYLL MSG1441 | A1842 | 20 | 1 | | ✓ | ✓ | AR/DL | |
| 10 | 2W61170 | JD50169-2 | ✓ | A1874 | 200 | 1 | | ✓ | ✓ | AR/DL | |
| 11 | 2W61171 | JD50411-2 | STD+ MSG1582 | ~~A2094~~ ~~A1966~~ | 100 | 1 | | ✓ | ✓ | AR/DL | |
| 12 | 2W61172 | scc, CP11860 | | A1524 | 100 | | | ✓ | ✓ | OK | |
| 13 | 2W61173 | scc, CP11860 | | A521 | 100 | | | ✓ | ✓ | OK | |
| 14 | 2W61174 | scc, CP11860 | | A1144 | 100 | | | ✓ | ✓ | OK | |
| 15 | 2W61175 | scc, CP11857 | | M236 | 400 | | | — | — | RR | ERROR SAMPLING |
| 16 | 2W61176 | scc, CP11850 | | A643 | 400 | | | ✓ | ✓ | OK | |

8/30/22

WL 8/31/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

# TO-15

Batch ID: V2W2735

Date: 9/28/22

Analyst Signature: [signature]

Columns: DB-1 30mx0.25mmx0.5µm
Method: 2W T015.M
Seq. File: 2W20220928.S
Initial Cal. Method: M2W2708.M

## AS Data

Method: TO15. 7200A.STD

### Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

### Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| A39585 | Int/Surr | 100ppbv |
| A39596 | TO15 STD (A971) | 40ppbv |
| | | |
| | | |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteri of SGS SOP EQA044.

Supervisor Signature: [signature] Date: 9/29/2022

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2W61632 | BFB | | open Position | 400 | | | | | OK | |
| 2 | 2W61633 | CC2709-10 | | A971 | 100 | | | ✓ | ✓ | OK | |
| 2 | 2W61634 | BS | | A971 | 100 | | | ✓ | ✓ | OK | |
| 2 | 2W61635 | BSD | | A971 | 100 | | | ✓ | ✓ | OK | |
| 3 | 2W61636 | IB | | A962 | 100 | | | ✓ | ✓ | — | |
| 3 | 2W61637 | MB | | A962 | 400 | | | ✓ | ✓ | OK | |
| 4 | 2W61638 | JD52482-1 | STD MS62487 | A408 | 100 | 1 | | ✓ | ✓ | OK/DL | Propene ↑ RR 10mL |
| 5 | 2W61639 | JD52482-2 | ✓ | A528 | 100 | 1 | | ✓ | ✓ | OK | |
| 5 | 2W61640 | JD52482-2DUP | ✓ | A528 | 100 | 1 | | ✓ | ✓ | OK | |
| 6 | 2W61641 | JD52189-1 | STD MS62329 | M431, A2066 | 40 | 1250 | | | | RR | too dilute RR 1250X |
| 7 | 2W61642 | JD52268-1 | STD MS62371 | A716, A2085 | 40 | 1430 | | ✓ | ✓ | OK/DL | VC ↑ RR 20mL |
| 8 | 2W61643 | JD52268-2 | ✓ | A402, A2058 | 40 | 1350 | | ✓ | ✓ | OK/DL | VC ↑ RR 20mL |
| 9 | 2W61644 | JD52268-3 | ✓ | A428, A2065 | 100 | 725 | | ✓ | ✓ | OK/DL | TOO DILUTE RR=725X |
| 4 | 2W61645 | JD52482-1 | STD MS62487 | A408 | 10 | 1 | | ✓ | ✓ | OK/DL | |
| 6 | 2W61646 | JD52189-1 | STD MS62329 | M431, A2066 | 400 | 1250 | | ✓ | ✓ | OK | |
| 7 | 2W61647 | JD52268-1 | STD MS62371 | A716, A2085 | 20 | 1430 | | ✓ | ✓ | OK/DL | |
| 8 | 2W61648 | JD52268-2 | ✓ | A402, A2058 | 20 | 1350 | | ✓ | ✓ | OK/DL | |
| 9 | 2W61649 | JD52268-3 | ✓ | A428, A2065 | 400 | 725 | | ✓ | ✓ | OK/DL | |
| 10 | 2W61650 | JD52620-1 | STD MS62557 | A676 | 100 | 1 | | ✓ | ✓ | OK | |
| 11 | 2W61651 | JD52620-2 | ✓ | AH18 | 100 | 1 | | ✓ | ✓ | OK | |

TH 9/29/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

DAYT-AIR-0006-06-FORM-TO15 Instrument Log

77

1/9/18

7.8.6

7

SGS

# TO-15

Batch ID: V2W2736

Date: 9/29/22

Analyst Signature:

Columns: DB-1 30m x 0.25mm x 0.5µm
Method: 2W7015.M
Seq. File: 2W2022_0929_5
Initial Cal. Method: M2W2709.M

## AS Data

Method: TO15.7200A.CTD

**Standard Data**

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

**Standard Data**

| Lot # | Description | Conc. |
|---|---|---|
| AS2525 | Int/Surr. | 100ppbv |
| AS2526 | TO15 STD (A971) | 40ppbv |
| | | |
| | | |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteri of SGS SOP EQA044.

Supervisor Signature: Date: 10/3/2022

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2W61652 | BFB | | from position | 400 | | | | | OK | T=7:14 |
| 2 | 2W61653 | cc 2709-10 | | A971 | 100 | | | ✓ | ✓ | OK | |
| 2 | 2W61654 | BS | | A971 | 100 | | | ✓ | ✓ | OK | |
| 2 | 2W61655 | BSD | | A971 | 100 | | | ✓ | ✓ | OK | |
| 3 | 2W61656 | IB | | A962 | 100 | | | | | — | |
| 3 | 2W61657 | MB | | A962 | 400 | | | ✓ | ✓ | OK | |
| 4 | 2W61658 | JD52620-13 | STD M62557 | M200 | 100 | 1 | | ✓ | ✓ | OK | |
| 5 | 2W61659 | JD52620-3 | ✓ | A777 | 20 | 1 | | ✓ | ✓ | OK/DL | over cal RR 5mL |
| 6 | 2W61660 | JD52620-4 | ✓ | A504 | 5 | 1 | | ✓ | ✓ | OK | |
| 7 | 2W61661 | JD52620-5 | ✓ | M180 | 10 | 1 | | ✓ | ✓ | OK/DL | over cal RR 5mL |
| 8 | 2W61662 | JD52620-6 | ✓ | M430 | 20 | 1 | | ✓ | ✓ | OK/DL | c-1,2DCE↑ RR=5mL |
| 9 | 2W61663 | JD52620-7 | ✓ | M462 | 100 | 1 | | ✓ | ✓ | OK/DL | c-1,2 DCE↑ RR=50mL |
| 10 | 2W61664 | JD52620-8 | ✓ | A1152 | 100 | 1 | | ✓ | ✓ | OK/DL | c-1,2 DCE↑ RR=20mL |
| 10 | 2W61665 | JD52620-8DUP | ✓ | A1152 | 100 | 1 | | ✓ | ✓ | OK | |
| 11 | 2W61666 | JD52620-9 | ✓ | A534 | 40 | 1 | | ✓ | ✓ | OK/DL | over cal RR 5mL |
| 12 | 2W61667 | JD52620-10 | ✓ | A1105 | 20 | 1 | | ✓ | ✓ | OK | |
| 13 | 2W61668 | JD52620-11 | ✓ | A791, M230 | 40 | 1120 | | | | RR | too dilute RR 1120X |
| 14 | 2W61669 | JD52620-12 | ✓ | A597 | 100 | 1 | | ✓ | ✓ | OK | |
| 15 | 2W61670 | JD52614-1 | STD M62556 | A1606 | 400 | 1 | | ✓ | ✓ | OK | |
| 16 | 2W61671 | JD52614-2 | ✓ | A1652 | 100 | 1 | | ✓ | ✓ | OK | |
| 1 | 2W61672 | JD52614-3 | ✓ | ~~A1602~~ A1655 | 100 | 6.49 | | ✓ | ✓ | OK | |
| 2 | 2W61673 | JD52614-4 | ✓ | ~~A1467~~ A1462 | 100 | 1 | | ✓ | ✓ | OK | |
| 3 | 2W61674 | JD52614-5 | ✓ | ~~A1467~~ A1467 | 100 | 1 | | ✓ | ✓ | OK | |
| 4 | 2W61675 | JD52614-6 | ✓ | M405 | 100 | 1 | | ✓ | ✓ | OK | |
| 5 | 2W61676 | JD52614-7 | ✓ | A1588 | 100 | 1 | | ✓ | ✓ | OK | |
| 6 | 2W61677 | SCC CP11857 | | A1585 | 400 | | | — | — | RR | possible clo |
| 7 | 2W61678 | SCC CP11875 | | A581 | 100 | | | — | — | RR | possible clo |
| 8 | 2W61679 | SCC CP11875 | | A1232 | 100 | | | ✓ | ✓ | OK | |
| 9 | 2W61680 | SCC CP11875 | | A565 | 100 | | | ✓ | ✓ | OK | |
| 10 | 2W61681 | SCC, CP11865 | | A1514 | 100 | | | ✓ | ✓ | OK | |
| 11 | 2W61682 | SCC, CP11865 | | A1988 | 100 | | | ✓ | ✓ | OK | |
| 12 | 2W61683 | SCC, CP11865 | | A1884 | 100 | | | ✓ | ✓ | OK | |

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

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DAYT-AIR-0006-06-FORM-TO15 Instrument Log 1/9/18

SGS

# Canister Secondary Dilution Log

Test Gauge ID : TG- 2

| | | | Original Canister Dilution | | | | Secondary Canister Dilution | | | | | | Final Canister Dilution |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Initials | SGS Sample ID | Canister ID | Vacuum in "Hg at time of Dilution | Final Pressure psig | Dilution Factor | Canister ID | Canister Volume CC | Sample Volume Added CC | Final Pressure psig | Equiv Total Volume CC | Dilution Factor | Factor |
| 3/29/22 | TH | JD52620-11 | A791 | 1.0 | 1.2 | 1.12 | M230 | 6000 | 10 | 1.8 | 10000 | 1000 | 1120 |
| | | | | | | | | | | | | | |
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Definition:

Final DF = (Original Canister DF) x (Secondary Canister DF)

Dilution Factor at Instrument = (Final Canister Dilution Factor) x (Normal Sampling Volume in cc) / (Sample Volume in cc Injected)

Example:

Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20(from canister dilution) x 20(from instrument dilution) = 400

Notes:

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error; # 3 = Computer Miscalclulation, # 4 = Analyst's Correction Error

SGS

# TO-15

Batch ID: V2W2737

Date: 9/30/22

Analyst Signature:

Columns: RTX-1 30m x 0.25mm x 1.0µm
Method: 2W TO15.M
Seq. File: 2W 2022 0930 5
Initial Cal. Method: M2W 2709.M

## AS Data

Method: TO15.7200A.CTD

### Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

### Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| AS9585 | Lot 1 Sum | 100 ppbv |
| AS9596 | TO15 STD (A971) | 40 ppbv |
| | | |
| | | |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date: 10/3/2022

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2W61684 | BFB | | open position | 400 | | | | | OK | |
| 2 | 2W61685 | CC2709-10 | | A971 | 100 | | | ✓ | ✓ | OK | |
| 2 | 2W61686 | BS | | A971 | 100 | | | ✓ | ✓ | OK | |
| 2 | 2W61687 | BS | | A971 | 100 | | | ✓ | ✓ | OK | |
| 3 | 2W61688 | MB | | A962 | 100 | | | | | — | |
| 3 | 2W61689 | MB | | A962 | 400 | | | ✓ | ✓ | OK | |
| 4 | 2W61690 | SCC CP11857 | | A1585 | 400 | | | ✓ | ✓ | OK | |
| 5 | 2W61691 | SCC CP11875 | | A581 | 100 | | | — | — | NG | circle LL reclean canister |
| 6 | 2W61692 | JD52620-11 | STD MS62257 | A791, M230 | 400 | 1120 | | ✓ | ✓ | OK | |
| 7 | 2W61693 | JD52620-9 | ✓ | A534 | 5 | 1.13 | | ✓ | ✓ | OK/OL | |
| 8 | 2W61694 | JD52642-1 | STD MS62562 | A1233 | 100 | 1 | | ✓ | ✓ | OK | |
| 9 | 2W61695 | JD52642-2 | ✓ | A1133 | 100 | 1 | | ✓ | ✓ | OK | |
| 10 | 2W61696 | JD52638-1 | STD MS62567 | A989 | 400 | 1 | | ✓ | ✓ | OK | |
| 10 | 2W61697 | JD52638-1 DUP | ✓ | A989 | 400 | 1 | | ✓ | ✓ | OK | |
| 11 | 2W61698 | ~~JD52638-1~~ TH 9/30/22 | STD MS62528 | A1711 | 100 | 1 | | | | | JD52643-1 |
| 12 | 2W61699 | ~~JD52638-1~~ TH 9/30/22 | ✓ | A671 | 100 | 1 | | | | | JD52643-2 |
| 13 | 2W61700 | JD52643-3 | ✓ | A1740 | 100 | 1 | | | | | |
| 14 | 2W61701 | JD52643-4 | ✓ | A1651 | 100 | 1 | | | | | |
| 15 | 2W61702 | JD52643-5 | ✓ | A1717 | 100 | 1 | | | | | |
| 16 | 2W61703 | JD52643-6 | ✓ | A1687 | 100 | 1 | | | | | |
| 1 | 2W61704 | JD52643-7 | ✓ | A345 | 400 | 1 | | | | | |
| 2 | 2W61705 | JD52643-8 | ✓ | A1464 | 400 | 1 | | | | | |
| 3 | 2W61706 | JD52637-1 | STD, CUME, propane | A403 | 20 | 1 | | | | | |
| 4 | 2W61707 | JD52637-2 | MS62567 | A643 | 400 | 1 | | | | | |
| 5 | 2W61708 | JD52637-3 | ✓ | A1101 | 400 | 1 | | | | | |
| 6 | 2W61709 | JD52637-4 | ✓ | A1817 | 400 | 1 | | | | | |
| 7 | 2W61710 | JD52637-5 | ✓ | A1339 | 400 | 1 | | | | | |
| 8 | 2W61711 | JD52637-6 | ✓ | M440 | 40 | 1 | | | | | |
| 9 | 2W61712 | JD52634-1 | STD, MDP MS62557 | A799 | 100 | 1 | | | | | |
| 10 | 2W61713 | SCC CP11877 | | M133 | 400 | | | | | NG | possible c/o |

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

# Canister Secondary Dilution Log

Test Gauge ID : TG- 2

| | | | Original Canister Dilution | | | | Secondary Canister Dilution | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Initials | SGS Sample ID | Canister ID | Vacuum in "Hg at time of Dilution | Final Pressure psig | Dilution Factor | Canister ID | Canister Volume CC | Sample Volume Added CC | Final Pressure psig | Equiv Total Volume CC | Dilution Factor | Final Canister Dilution Factor |
| 9/23/22 | TH | JD52620-11 | A791 | 1.0 | 1.2 | 1.12 | M230 | 6000 | 10 | 2.8 | 10000 | 1000 | 1120 |
| | | | | | | | | | | | | | |
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Definition:

Final DF = (Original Canister DF) x (Secondary Canister DF)

Dilution Factor at Instrument = (Final Canister Dilution Factor) x (Normal Sampling Volume in cc) / (Sample Volume in cc Injected)

Example:

Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20(from canister dilution) x 20(from instrument dilution) = 400

Notes:

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error; # 3 = Computer Miscalculation, # 4 = Analyst's Correction Error

SGS

# Canister Secondary Dilution Log

Test Gauge ID : TG- 2

| | | | Original Canister Dilution | | | | Secondary Canister Dilution | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | Initials | SGS Sample ID | Canister ID | Vacuum in "Hg at time of Dilution | Final Pressure psig | Dilution Factor | Canister ID | Canister Volume CC | Sample Volume Added CC | Final Pressure psig | Equiv Total Volume CC | Dilution Factor | Final Canister Dilution Factor |
| 9/30/22 | TR | JD52620-9 | A534 | 1.5 | 1.0 | 1.13 | — | — | — | — | — | — | 1.13 |
| | | | | | | | | | | | | | |
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Definition: Final DF = (Original Canister DF) x (Secondary Canister DF)

Dilution Factor at Instrument = (Final Canister Dilution Factor) x (Normal Sampling Volume in cc) / (Sample Volume in cc Injected)

Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig or 750cc equiv volume. This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20(from canister dilution) x 20(from instrument dilution) = 400

Notes:

All strikeouts must be initial, dated and reason code applied as follows: # 1 = Reviewer Correction Error; # 2 = Transcription Error; # 3 = Computer Miscalclulation, # 4 = Analyst's Correction Error

# TO-15

Batch ID: V6W1105

Date: 9/15/22

Analyst Signature:

Columns: DB-1 30mx0.25mmx1µm

Method: 6WTO15.M

Seq. File: 6W20220915.S

Initial Cal. Method: M6W1105.M

## AS Data

Method: 6WTO15.7200A.CTD

Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| AS9188 | Int/Surr. | 100ppbv |
| AS9594 | TO15 STD (A1794) | 40ppbv |
| AS9598 | TO15 STD (A1810) | 2ppbv |
| AS9595 | TO15 LCS (A774) | 40ppbv |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteri of SGS SOP EQA044.

Supervisor Signature: Date: 10/3/22

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 6W25999 | IB | | A963 | 20 | | | | | - | |
| 3 | 6W26000 | IB | | A963 | 20 | | | | | - | |
| 1 | 6W26001 | BFB | | A1810 | 20 | | | | | OK | |
| 1 | 6W26002 | IC1105-0.04 | | A1810 | 8 | | | | | RR | |
| 1 | 6W26003 | IC1105-0.1 | | A1810 | 20 | | | | | RR | |
| 1 | 6W26004 | IC1105-0.2 | | A1810 | 40 | | | ✓ | ✓ | OK | |
| 1 | 6W26005 | IC1105-0.5 | | A1810 | 100 | | | ✓ | ✓ | OK | |
| 2 | 6W26006 | IC1105-0.5 | | A1794 | 5 | | | ✓ | ✓ | OK | |
| 2 | 6W26007 | IC1105-5 | | A1794 | 50 | | | ✓ | ✓ | OK | |
| 2 | 6W26008 | ICC1105-10 | | A1794 | 100 | | | ✓ | ✓ | OK | |
| 2 | 6W26009 | IC1105-20 | | A1794 | 200 | | | ✓ | ✓ | OK | |
| 2 | 6W26010 | IC1105-40 | | A1794 | 400 | | | ✓ | ✓ | OK | |
| 2 | 6W26011 | IC1105-50 | | A1794 | 500 | | | ✓ | ✓ | OK | |
| 3 | 6W26012 | IB | | A963 | ~~20~~ | | | | | - | |
| 3 | 6W26013 | IB | | A963 | 20 | | | | | - | |
| TH X 1 | 6W26014 | ~~IC1105-10 TH~~ | | TH A794 1.0DV | ~~DF 8~~ | | | ✓ | ✓ | OK | IC1105-0.04 |
| TH 51 | 6W26015 | ~~IB TH~~ | | TH A963 1.0DV | 20 | | | ✓ | ✓ | OK | IC1105-0.1 |
| 4 | 6W26016 | IC1105-10 | | A974 | 100 | | | ✓ | ✓ | OK | |

WC 9/19/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

# TO-15

Batch ID: V6W1111

Date: 9/29/22

Analyst Signature: [signature]

Columns: DB-1 30m x 0.25mm x 0.5μm
Method: 6wT015.m
Seq. File: 6w20220929.S
Initial Cal. Method: M6w1105.m

## AS Data

Method: 6wT015.7200A.CTD

### Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

### Standard Data

| Lot # | Description | Conc. |
|---|---|---|
| AS9585 | Int/Surr | 100ppb |
| AS9594 | T015 STD (A1794) | 40ppbv |
| AS9593 | T015 STD (A1784) | |
| | | |

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the crite of SGS SOP EQA044.

Supervisor Signature: [signature] Date: 10/3/22

| AS # | Data File | Sample ID | TEST | Canister Serial # | Vol Sample | Dil Fact | TICS | Int. STD Areas | Surr | Status Data | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 6w26130 | BFB | | OPEN POSITION | 400 | | | | | | |
| 2 | 6w26131 | CC1105-10 | | A1794 | 100 | | | | | NG | 124-TCB ↓ HBD ↓ |
| 2 | 6w26132 | CC1105-10 | | A1794 | 100 | | | | | NG | MULTIPLE COMPOUNDS ↓ |
| 1 | 6w26133 | BFB | | OPEN POSITION | 400 | | | | | ok | |
| 2 | 6w26134 | CC1105-10 | | A1794 | 100 | | | | | RR | MULTIPLE COMPOUNDS ↓ |
| 2 | 6w26135 | CC1105-10 | | A1784 | 100 | | | ✓ | ✓ | ok | METHYL METHACRYLATE ↑ |
| 2 | 6w26136 | BS | | A1784 | 100 | | | ~~✓~~ WC | | NG | MULTIPLE COMPOUNDS ↑ |
| 2 | 6w26137 | BSD | | A1784 | 100 | | | ~~✓~~ WC | | NG | |
| 2 | 6w26138 | BS | | A1784 | 100 | | | ✓ | ✓ | ok | METHYL METHACRYLATE ↑ |
| 2 | 6w26139 | BSD | | A1784 | 100 | | | ✓ | ✓ | ok | METHYL METHACRYLATE ↑ |
| 3 | 6w26140 | IB | | A958 | 100 | | | | | — | |
| 3 | 6w26141 | MB | | A958 | 400 | | | ✓ | ✓ | ok | |
| 4 | 6w26142 | JD52613-1 | TCE MS62556 | M107 | 400 | 1 | | ✓ | ✓ | ok | |
| 5 | 6w26143 | JD52615-1 | STD MS62556 | A1959 | 100 | 1 | | ✓ | ✓ | ok | |
| 5 | 6w26144 | JD52615-1DUP | ✓ | A1959 | 100 | 1 | | ✓ | ✓ | ok | |
| 6 | 6w26145 | JD52618-1 | STD MS62556 | A1150 | 100 | 1 | | ✓ | ✓ | ok | |
| 7 | 6w26146 | JD52618-2A | ✓ | M188 | 100 | 1 | | ✓ | ✓ | ok | |
| 8 | 6w26147 | JD52618-3A | ✓ | A702 | 100 | 1 | | ✓ | ✓ | ok | |
| 9 | 6w26148 | JD52618-4A | ✓ | A521 | 100 | 1 | | ✓ | ✓ | ok | |
| 10 | 6w26149 | JD52618-5B | ✓ | A1127 | 100 | 1 | | ✓ | ✓ | ok | |
| 11 | 6w26150 | JD52618-6B | ✓ | A544 | 100 | 1 | | ✓ | ✓ | ok | |
| 12 | 6w26151 | JD52618-7B | ✓ | A1209 | 100 | 1 | | ✓ | ✓ | ok/DL | ACETONE ↑ RR=20ML |
| 13 | 6w26152 | JD52620-3 | STD MS62557 | A797 | 5 | 1.30 | | ✓ | ✓ | ok | |
| 14 | 6w26153 | JD52620-5 | ✓ | M180 | 5 | 1.23 | | ✓ | ✓ | ok/DL | |
| 15 | 6w26154 | JD52620-6 | ✓ | M430 | 5 | 1.15 | | ✓ | ✓ | ok/DL | |
| 16 | 6w26155 | JD52620-7 | ✓ | M462 | 50 | 1 | | ✓ | ✓ | ok/DL | |
| 1 | 6w26156 | JD52620-8 | ✓ | A1152 | 20 | 1 | | ✓ | ✓ | ok/DL | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | WC 9/30/22 | | | |

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

DAYT-AIR-0006-06-FORM-TO15 Instrument Log

5

1/9/18

7.8.10

7

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*
*Automated Report*

Technical Report for

WSP USA Environment & Infrastructure Inc

EPT, Ithaca, NY

31401545.001

SGS Job Number: JD52507

Sampling Dates: 09/19/22 - 09/22/22



Report to:

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Herndon, VA 20171
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ATTN: Nathaniel Winston

Total number of pages in report: **1006**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.



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SGS North America Inc.

# Sample Summary

WSP USA Environment & Infrastructure Inc

**Job No:** JD52507

EPT, Ithaca, NY
Project No: 31401545.001

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL | | | | | | | |
| JD52507-1 | 09/19/22 | 14:00 | NW | 09/24/22 | AQ | Ground Water | EXB-9 |
| JD52507-2 | 09/19/22 | 16:30 | NW | 09/24/22 | AQ | Equipment Blank | EB-091922 |
| JD52507-3 | 09/20/22 | 10:30 | NW | 09/24/22 | AQ | Ground Water | MW-5-40 |
| JD52507-4 | 09/20/22 | 10:35 | NW | 09/24/22 | AQ | Ground Water | MW-5-25 |
| JD52507-5 | 09/20/22 | 10:40 | NW | 09/24/22 | AQ | Ground Water | MW-8B |
| JD52507-6 | 09/20/22 | 10:50 | NW | 09/24/22 | AQ | Ground Water | EXB-10 |
| JD52507-6D | 09/20/22 | 10:50 | NW | 09/24/22 | AQ | Water Dup/MSD | EXB-10-MSD |
| JD52507-6S | 09/20/22 | 10:50 | NW | 09/24/22 | AQ | Water Matrix Spike | EXB-10-MS |
| JD52507-7 | 09/20/22 | 13:50 | NW | 09/24/22 | AQ | Ground Water | MW-32B |
| JD52507-8 | 09/20/22 | 14:40 | NW | 09/24/22 | AQ | Ground Water | MW-15C |
| JD52507-9 | 09/20/22 | 14:45 | NW | 09/24/22 | AQ | Ground Water | MW-36B |
| JD52507-10 | 09/20/22 | 14:55 | NW | 09/24/22 | AQ | Ground Water | MW-46-72C |

# Sample Summary
(continued)

WSP USA Environment & Infrastructure Inc

**Job No:** JD52507

EPT, Ithaca, NY
Project No: 31401545.001

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JD52507-10D | 09/20/22 | 14:55 | NW | 09/24/22 | AQ | Water Dup/MSD | MW-46-72C-MSD |
| JD52507-10S | 09/20/22 | 14:55 | NW | 09/24/22 | AQ | Water Matrix Spike | MW-46-72C-MS |
| JD52507-11 | 09/20/22 | 15:05 | NW | 09/24/22 | AQ | Ground Water | MW-46-43C |
| JD52507-12 | 09/20/22 | 16:00 | NW | 09/24/22 | AQ | Ground Water | MW-50-160D |
| JD52507-13 | 09/20/22 | 17:00 | NW | 09/24/22 | AQ | Ground Water | MW-092022 |
| JD52507-14 | 09/20/22 | 16:50 | NW | 09/24/22 | AQ | Equipment Blank | EB-092022 |
| JD52507-15 | 09/21/22 | 09:20 | NW | 09/24/22 | AQ | Ground Water | MW-20B |
| JD52507-16 | 09/21/22 | 09:40 | NW | 09/24/22 | AQ | Ground Water | MW-7B |
| JD52507-17 | 09/21/22 | 09:50 | NW | 09/24/22 | AQ | Ground Water | MW-12C |
| JD52507-18 | 09/21/22 | 10:00 | NW | 09/24/22 | AQ | Ground Water | MW-13C |
| JD52507-19 | 09/21/22 | 10:05 | NW | 09/24/22 | AQ | Ground Water | MW-5-100 |
| JD52507-20 | 09/21/22 | 10:40 | NW | 09/24/22 | AQ | Ground Water | MW-4B |
| JD52507-21 | 09/21/22 | 14:35 | NW | 09/24/22 | AQ | Ground Water | MW-7-40 |

# Sample Summary
(continued)

WSP USA Environment & Infrastructure Inc

**Job No:** JD52507

EPT, Ithaca, NY
Project No: 31401545.001

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JD52507-22 | 09/21/22 | 17:25 | NW | 09/24/22 | AQ | Ground Water | MW-16-100 |
| JD52507-23 | 09/22/22 | 08:35 | NW | 09/24/22 | AQ | Equipment Blank | EB-092222 |
| JD52507-24 | 09/22/22 | 10:10 | NW | 09/24/22 | AQ | Ground Water | MW-18A |
| JD52507-25 | 09/22/22 | 10:20 | NW | 09/24/22 | AQ | Ground Water | MW-8-40 |
| JD52507-26 | 09/22/22 | 10:30 | NW | 09/24/22 | AQ | Ground Water | MW-22B |
| JD52507-27 | 09/22/22 | 10:45 | NW | 09/24/22 | AQ | Ground Water | MW-1B |
| JD52507-28 | 09/22/22 | 08:00 | NW | 09/24/22 | AQ | Ground Water | MW-092222 |
| JD52507-29 | 09/22/22 | 11:00 | NW | 09/24/22 | AQ | Ground Water | MW-2B |
| JD52507-30 | 09/22/22 | 11:10 | NW | 09/24/22 | AQ | Ground Water | MW-3B |
| JD52507-31 | 09/22/22 | 11:20 | NW | 09/24/22 | AQ | Ground Water | MW-5B |
| JD52507-32 | 09/22/22 | 11:15 | NW | 09/24/22 | AQ | Ground Water | MW-17-40 |
| JD52507-33 | 09/22/22 | 13:10 | NW | 09/24/22 | AQ | Equipment Blank | EB-092222 |
| JD52507-34 | 09/22/22 | 14:10 | NW | 09/24/22 | AQ | Ground Water | MW-26A |

# Sample Summary
(continued)

WSP USA Environment & Infrastructure Inc

**Job No:** JD52507

EPT, Ithaca, NY
Project No: 31401545.001

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| JD52507-35 | 09/22/22 | 14:20 | NW | 09/24/22 | AQ | Ground Water | MW-25A |
| JD52507-36 | 09/22/22 | 14:20 | NW | 09/24/22 | AQ | Trip Blank Water | TRIP BLANK |
| JD52507-37 | 09/21/22 | 10:45 | NW | 09/24/22 | AQ | Ground Water | EXB-11 |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | WSP USA Environment & Infrastructure Inc | **Job No** | JD52507 |
| **Site:** | EPT, Ithaca, NY | **Report Date** | 10/10/2022 9:54:36 A |

On 09/24/2022, 36 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD52507 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

## MS Volatiles By Method SW846 8260D

**Matrix:** AQ **Batch ID:** V1A9698

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD52310-3MS, JD52310-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Tetrachloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for Styrene are outside control limits for sample JD52310-3MSD. Analytical precision exceeds in-house control limits.

**Matrix:** AQ **Batch ID:** V1A9705

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD52624-3MS, JD52624-3MSD were used as the QC samples indicated.
- JD52507-10: Dilution required due to high concentration of target compound.

**Matrix:** AQ **Batch ID:** V1X8637

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD52594-1MS, JD52594-1MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Benzene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD52507-22 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD52507-19 for Bromomethane: Associated CCV outside of control limits high, sample was ND.

**Matrix:** AQ **Batch ID:** V2A9581

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD50917-15MS, JD50917-15MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike /Matrix Spike Duplicate Recovery(s) for Tetrachloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for Trichloroethene are outside control limits. Outside control limits due to matrix interference.
- JD52507-3: Dilution required due to high concentration of target compound.
- JD52507-3 for Acetone, 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.

**Matrix:** AQ **Batch ID:** V2A9583

## MS Volatiles By Method SW846 8260D

**Matrix:** AQ **Batch ID:** V2A9583

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD52514-12MS, JD52514-12MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD52514-12MSD for 1,2-Dichloroethane-D4: Outside control limits due to matrix interference.
- JD52514-12MS for 1,2-Dichloroethane-D4: Outside control limits due to matrix interference.

**Matrix:** AQ **Batch ID:** V2V3773

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD52507-6MS, JD52507-6MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Chloroethane, Trichlorofluoromethane are outside control limits.
- Matrix Spike Duplicate Recovery(s) for Trichlorofluoromethane are outside control limits.
- RPD(s) for MSD for Chloroethane are outside control limits for sample JD52507-6MSD. Outside control limits due to matrix interference.
- V2V3773-BS for Trichlorofluoromethane: High percent recovery and no associated positive reported in the QC batch.
- JD52507-2 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-6 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
- RPD of JD52507-6MSD for Freon 113: Outside control limits.
- JD52507-6 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.
- JD52507-5 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
- JD52507-2 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
- JD52507-7 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-1 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
- JD52507-1 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-4 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-7 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
- JD52507-5 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-4 for Chloroethane: Associated CCV outside of control limits high, sample was ND.

**Matrix:** AQ **Batch ID:** V2V3777

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD52507-10MS, JD52507-10MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Chloroethane, Trichlorofluoromethane are outside control limits.
- Matrix Spike Duplicate Recovery(s) for Trichlorofluoromethane are outside control limits.
- RPD(s) for MSD for Chloroethane are outside control limits for sample JD52507-10MSD. Outside control limits due to matrix interference.
- JD52507-13: Dilution required due to high concentration of target compound.
- JD52507-29: Dilution required due to high concentration of target compound.
- JD52507-12: Dilution required due to high concentration of target compound.

## MS Volatiles By Method SW846 8260D

**Matrix:** AQ **Batch ID:** V2V3777

- JD52507-11: Dilution required due to high concentration of target compound.
- JD52507-11 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52507-11 for Chloroethane, Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-13 for Chloroethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-13 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52507-29 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52507-12 for Chloroethane, Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-29 for Chloroethane, Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-12 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52507-33 for Chloroethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-30 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-24 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-23 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-33 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-24 for Chloroethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-9 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52507-9 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-23 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52507-14 for Chloroethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-36 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-33 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52507-23 for Chloroethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-36 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52507-14 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52507-27 for Chloroethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-10MS for Trichlorofluoromethane: Outside in house control limits.
- JD52507-9 for Chloroethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

## MS Volatiles By Method SW846 8260D

**Matrix:** AQ **Batch ID:** V2V3777

- JD52507-26 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52507-30 for Chloroethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-36 for Chloroethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-28 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-28 for Chloroethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-30 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52507-27 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-31 for Chloroethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-31 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52507-28 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52507-31 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-26 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-25 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52507-27 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- V2V3777-BS for Trichlorofluoromethane: High percent recovery and no associated positive reported in the QC batch.
- V2V3777-BS for Chloroethane: High percent recovery and no associated positive reported in the QC batch.
- JD52507-24 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD52507-26 for Chloroethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-25 for Chloroethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-10MS for Chloroethane: Outside in house control limits.
- JD52507-14 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-25 for Trichlorofluoromethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

**Matrix:** AQ **Batch ID:** V2V3782

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD52730-7MS, JD52730-7MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 4-Methyl-2-pentanone(MIBK), Chloroethane are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2-Butanone (MEK), 4-Methyl-2-pentanone(MIBK), Chloroethane are outside control limits. Outside control limits due to matrix interference.
- JD52507-32 for Vinyl chloride: Associated CCV outside of control limits high, sample was ND.

## MS Volatiles By Method SW846 8260D

**Matrix:** AQ **Batch ID:** V2V3782

- JD52507-35 for Vinyl chloride: Associated CCV outside of control limits high, sample was ND.
- V2V3782-BS for Chloroethane: High percent recovery and no associated positive reported in the QC batch.
- JD52507-35 for Bromomethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spkie is outside in house QC limits bias high.
- V2V3782-BS for Bromomethane: High percent recovery and no associated positive reported in the QC batch.
- JD52507-34 for Chloroethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-34 for Vinyl chloride: Associated CCV outside of control limits high, sample was ND.
- JD52507-32 for Bromomethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spkie is outside in house QC limits bias high.
- JD52507-35 for Chloroethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
- JD52507-34 for Bromomethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spkie is outside in house QC limits bias high.
- JD52507-32 for Chloroethane: Associated CCV outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

**Matrix:** AQ **Batch ID:** VL10519

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD52507-37MS, JD52507-37MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD52507-37: Dilution required due to high concentration of target compound.
- JD52507-37 for Freon 113: Associated CCV outside of control limits high, sample was ND.
- JD52507-37 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

# Summary of Hits

**Job Number:** JD52507
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 09/19/22 thru 09/22/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **JD52507-1** | **EXB-9** | | | | | |
| No hits reported in this sample. | | | | | | |
| **JD52507-2** | **EB-091922** | | | | | |
| Carbon disulfide | | 0.49 J | 2.0 | 0.46 | ug/l | SW846 8260D |
| Chloroform | | 2.0 | 1.0 | 0.50 | ug/l | SW846 8260D |
| **JD52507-3** | **MW-5-40** | | | | | |
| cis-1,2-Dichloroethene | | 2420 | 50 | 25 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 101 | 10 | 5.4 | ug/l | SW846 8260D |
| Trichloroethene [a] | | 33.0 | 10 | 5.3 | ug/l | SW846 8260D |
| Vinyl chloride | | 4250 | 50 | 26 | ug/l | SW846 8260D |
| **JD52507-4** | **MW-5-25** | | | | | |
| Acetone | | 6.5 J | 10 | 3.1 | ug/l | SW846 8260D |
| **JD52507-5** | **MW-8B** | | | | | |
| No hits reported in this sample. | | | | | | |
| **JD52507-6** | **EXB-10** | | | | | |
| Benzene | | 0.67 | 0.50 | 0.43 | ug/l | SW846 8260D |
| Cyclohexane | | 1.2 J | 5.0 | 0.78 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 2.8 | 1.0 | 0.51 | ug/l | SW846 8260D |
| Methylcyclohexane | | 0.96 J | 5.0 | 0.60 | ug/l | SW846 8260D |
| **JD52507-7** | **MW-32B** | | | | | |
| Chloroform | | 0.63 J | 1.0 | 0.50 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 7.8 | 1.0 | 0.51 | ug/l | SW846 8260D |
| 1,1,1-Trichloroethane | | 0.58 J | 1.0 | 0.54 | ug/l | SW846 8260D |
| Trichloroethene | | 35.1 | 1.0 | 0.53 | ug/l | SW846 8260D |
| **JD52507-8** | **MW-15C** | | | | | |
| Acetone | | 4.6 J | 10 | 3.1 | ug/l | SW846 8260D |
| 1,1-Dichloroethene | | 0.61 J | 1.0 | 0.59 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 451 | 10 | 5.1 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene | | 1.7 | 1.0 | 0.54 | ug/l | SW846 8260D |
| Trichloroethene | | 4.7 | 1.0 | 0.53 | ug/l | SW846 8260D |

# Summary of Hits

**Job Number:** JD52507
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 09/19/22 thru 09/22/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| Vinyl chloride | | 19.1 | 1.0 | 0.52 | ug/l | SW846 8260D |
| **JD52507-9** | **MW-36B** | | | | | |
| cis-1,2-Dichloroethene | | 10.0 | 1.0 | 0.51 | ug/l | SW846 8260D |
| Trichloroethene | | 5.6 | 1.0 | 0.53 | ug/l | SW846 8260D |
| **JD52507-10** | **MW-46-72C** | | | | | |
| cis-1,2-Dichloroethene | | 11200 | 100 | 51 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 42.0 | 20 | 11 | ug/l | SW846 8260D |
| Trichloroethene [a] | | 1090 | 20 | 11 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 964 | 20 | 10 | ug/l | SW846 8260D |
| **JD52507-11** | **MW-46-43C** | | | | | |
| cis-1,2-Dichloroethene [a] | | 14600 | 100 | 51 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 112 | 100 | 54 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 8960 | 100 | 52 | ug/l | SW846 8260D |
| **JD52507-12** | **MW-50-160D** | | | | | |
| cis-1,2-Dichloroethene | | 3150 | 100 | 51 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 17.1 | 10 | 5.4 | ug/l | SW846 8260D |
| Trichloroethene [a] | | 23.0 | 10 | 5.3 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 1120 | 10 | 5.2 | ug/l | SW846 8260D |
| **JD52507-13** | **MW-092022** | | | | | |
| cis-1,2-Dichloroethene | | 3200 | 100 | 51 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 16.8 | 10 | 5.4 | ug/l | SW846 8260D |
| Trichloroethene [a] | | 24.0 | 10 | 5.3 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 1080 | 10 | 5.2 | ug/l | SW846 8260D |
| **JD52507-14** | **EB-092022** | | | | | |
| Chloroform | | 2.0 | 1.0 | 0.50 | ug/l | SW846 8260D |
| **JD52507-15** | **MW-20B** | | | | | |
| No hits reported in this sample. | | | | | | |
| **JD52507-16** | **MW-7B** | | | | | |
| Acetone | | 4.5 J | 10 | 3.1 | ug/l | SW846 8260D |

# Summary of Hits

**Job Number:** JD52507
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 09/19/22 thru 09/22/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | | 1.7 | 1.0 | 0.51 | ug/l | SW846 8260D |
| **JD52507-17** | **MW-12C** | | | | | |
| cis-1,2-Dichloroethene | | 1.5 | 1.0 | 0.51 | ug/l | SW846 8260D |
| **JD52507-18** | **MW-13C** | | | | | |
| Acetone | | 3.1 J | 10 | 3.1 | ug/l | SW846 8260D |
| Benzene | | 3.7 | 0.50 | 0.43 | ug/l | SW846 8260D |
| Chloroform | | 0.52 J | 1.0 | 0.50 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 163 | 1.0 | 0.51 | ug/l | SW846 8260D |
| Trichloroethene | | 219 | 10 | 5.3 | ug/l | SW846 8260D |
| Vinyl chloride | | 1.7 | 1.0 | 0.52 | ug/l | SW846 8260D |
| **JD52507-19** | **MW-5-100** | | | | | |
| Chloroethane | | 3.6 | 1.0 | 0.73 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 33.4 | 1.0 | 0.51 | ug/l | SW846 8260D |
| Vinyl chloride | | 35.4 | 1.0 | 0.52 | ug/l | SW846 8260D |
| **JD52507-20** | **MW-4B** | | | | | |
| Acetone | | 3.2 J | 10 | 3.1 | ug/l | SW846 8260D |
| Vinyl chloride | | 1.4 | 1.0 | 0.52 | ug/l | SW846 8260D |
| **JD52507-21** | **MW-7-40** | | | | | |
| cis-1,2-Dichloroethene | | 150 | 1.0 | 0.51 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene | | 2.2 | 1.0 | 0.54 | ug/l | SW846 8260D |
| Vinyl chloride | | 41.5 | 1.0 | 0.52 | ug/l | SW846 8260D |
| **JD52507-22** | **MW-16-100** | | | | | |
| cis-1,2-Dichloroethene | | 4.0 | 1.0 | 0.51 | ug/l | SW846 8260D |
| Vinyl chloride | | 19.0 | 1.0 | 0.52 | ug/l | SW846 8260D |
| **JD52507-23** | **EB-092222** | | | | | |
| No hits reported in this sample. | | | | | | |
| **JD52507-24** | **MW-18A** | | | | | |
| Acetone | | 4.8 J | 10 | 3.1 | ug/l | SW846 8260D |

# Summary of Hits

**Job Number:** JD52507
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 09/19/22 thru 09/22/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **JD52507-25** | **MW-8-40** | | | | | |
| No hits reported in this sample. | | | | | | |
| **JD52507-26** | **MW-22B** | | | | | |
| No hits reported in this sample. | | | | | | |
| **JD52507-27** | **MW-1B** | | | | | |
| cis-1,2-Dichloroethene | | 1.7 | 1.0 | 0.51 | ug/l | SW846 8260D |
| Trichloroethene | | 2.5 | 1.0 | 0.53 | ug/l | SW846 8260D |
| **JD52507-28** | **MW-092222** | | | | | |
| cis-1,2-Dichloroethene | | 1.7 | 1.0 | 0.51 | ug/l | SW846 8260D |
| Trichloroethene | | 2.7 | 1.0 | 0.53 | ug/l | SW846 8260D |
| **JD52507-29** | **MW-2B** | | | | | |
| cis-1,2-Dichloroethene [a] | | 5720 | 50 | 25 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 31.8 J | 50 | 27 | ug/l | SW846 8260D |
| Trichloroethene [a] | | 7600 | 50 | 26 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 67.9 | 50 | 26 | ug/l | SW846 8260D |
| **JD52507-30** | **MW-3B** | | | | | |
| Carbon disulfide | | 0.50 J | 2.0 | 0.46 | ug/l | SW846 8260D |
| Chloroform | | 0.80 J | 1.0 | 0.50 | ug/l | SW846 8260D |
| 1,1-Dichloroethene | | 16.8 | 1.0 | 0.59 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 7150 | 200 | 100 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene | | 149 | 1.0 | 0.54 | ug/l | SW846 8260D |
| Tetrachloroethene | | 1.6 | 1.0 | 0.56 | ug/l | SW846 8260D |
| Trichloroethene | | 4730 | 200 | 110 | ug/l | SW846 8260D |
| Vinyl chloride | | 110 | 1.0 | 0.52 | ug/l | SW846 8260D |
| **JD52507-31** | **MW-5B** | | | | | |
| 1,1-Dichloroethene | | 1.5 | 1.0 | 0.59 | ug/l | SW846 8260D |
| cis-1,2-Dichloroethene | | 795 | 20 | 10 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene | | 11.7 | 1.0 | 0.54 | ug/l | SW846 8260D |
| Tetrachloroethene | | 0.81 J | 1.0 | 0.56 | ug/l | SW846 8260D |
| Trichloroethene | | 554 | 20 | 11 | ug/l | SW846 8260D |
| Vinyl chloride | | 27.7 | 1.0 | 0.52 | ug/l | SW846 8260D |

# Summary of Hits

**Job Number:** JD52507
**Account:** WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Collected:** 09/19/22 thru 09/22/22



| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **JD52507-32** | **MW-17-40** | | | | | |
| No hits reported in this sample. | | | | | | |
| **JD52507-33** | **EB-092222** | | | | | |
| No hits reported in this sample. | | | | | | |
| **JD52507-34** | **MW-26A** | | | | | |
| No hits reported in this sample. | | | | | | |
| **JD52507-35** | **MW-25A** | | | | | |
| No hits reported in this sample. | | | | | | |
| **JD52507-36** | **TRIP BLANK** | | | | | |
| Chloroform | | 1.4 | 1.0 | 0.50 | ug/l | SW846 8260D |
| **JD52507-37** | **EXB-11** | | | | | |
| cis-1,2-Dichloroethene | | 1830 | 50 | 25 | ug/l | SW846 8260D |
| trans-1,2-Dichloroethene [a] | | 33.6 | 5.0 | 2.7 | ug/l | SW846 8260D |
| Trichloroethene [a] | | 400 | 5.0 | 2.6 | ug/l | SW846 8260D |
| Vinyl chloride [a] | | 13.8 | 5.0 | 2.6 | ug/l | SW846 8260D |

(a) Dilution required due to high concentration of target compound.

## Sample Results

Report of Analysis

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EXB-9 | | |
| **Lab Sample ID:** | JD52507-1 | **Date Sampled:** | 09/19/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V92891.D | 1 | 09/28/22 01:16 | KM | n/a | n/a | V2V3773 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EXB-9 | | |
| **Lab Sample ID:** | JD52507-1 | **Date Sampled:** | 09/19/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [b] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 102% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EB-091922 | | |
| **Lab Sample ID:** | JD52507-2 | **Date Sampled:** | 09/19/22 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V92889.D | 1 | 09/28/22 00:30 | KM | n/a | n/a | V2V3773 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | 0.49 | 2.0 | 0.46 | ug/l | J |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | 2.0 | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EB-091922 | | |
| **Lab Sample ID:** | JD52507-2 | **Date Sampled:** | 09/19/22 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [b] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 101% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 102% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-5-40 | | |
| **Lab Sample ID:** | JD52507-3 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 2A220398.D | 10 | 09/29/22 13:11 | NH | n/a | n/a | V2A9581 |
| Run #2 | 2V92892.D | 50 | 09/28/22 01:39 | KM | n/a | n/a | V2V3773 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [b] | ND | 100 | 31 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 4.3 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 10 | 4.5 | ug/l | |
| 75-25-2 | Bromoform | ND | 10 | 6.3 | ug/l | |
| 74-83-9 | Bromomethane | ND | 20 | 16 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) [b] | ND | 100 | 27 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 20 | 4.6 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 10 | 5.5 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 10 | 5.6 | ug/l | |
| 75-00-3 | Chloroethane | ND | 10 | 7.3 | ug/l | |
| 67-66-3 | Chloroform | ND | 10 | 5.0 | ug/l | |
| 74-87-3 | Chloromethane | ND | 10 | 7.6 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 50 | 7.8 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 20 | 5.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 10 | 5.6 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 10 | 4.8 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 10 | 5.3 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 10 | 5.4 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 10 | 5.1 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 20 | 5.6 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 10 | 5.7 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 10 | 6.0 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 10 | 5.9 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 2420 [c] | 50 | 25 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 101 | 10 | 5.4 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 10 | 5.1 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 10 | 4.7 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 10 | 4.3 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 10 | 6.0 | ug/l | |
| 76-13-1 | Freon 113 | ND | 50 | 5.8 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 50 | 20 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 10 | 6.5 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-5-40 | | |
| **Lab Sample ID:** | JD52507-3 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 50 | 8.0 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 50 | 6.0 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 10 | 5.1 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 50 | 19 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 20 | 10 | ug/l | |
| 100-42-5 | Styrene | ND | 10 | 4.9 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 10 | 6.5 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 10 | 5.6 | ug/l | |
| 108-88-3 | Toluene | ND | 10 | 4.9 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 10 | 5.0 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 10 | 5.4 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 10 | 5.3 | ug/l | |
| 79-01-6 | Trichloroethene | 33.0 | 10 | 5.3 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 20 | 4.0 | ug/l | |
| 75-01-4 | Vinyl chloride | 4250 [c] | 50 | 26 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 10 | 5.9 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 105% | 100% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 86% | 95% | 80-120% |
| 2037-26-5 | Toluene-D8 | 98% | 101% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 112% | 92% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high, sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-5-25 | | |
| **Lab Sample ID:** | JD52507-4 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V92893.D | 1 | 09/28/22 02:03 | KM | n/a | n/a | V2V3773 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 6.5 | 10 | 3.1 | ug/l | J |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-5-25 | | |
| **Lab Sample ID:** | JD52507-4 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [b] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 102% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-8B | | |
| **Lab Sample ID:** | JD52507-5 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V92894.D | 1 | 09/28/22 02:26 | KM | n/a | n/a | V2V3773 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-8B | | |
| **Lab Sample ID:** | JD52507-5 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [b] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 103% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 91% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EXB-10 | | |
| **Lab Sample ID:** | JD52507-6 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V92885.D | 1 | 09/27/22 22:57 | KM | n/a | n/a | V2V3773 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | 0.67 | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | 1.2 | 5.0 | 0.78 | ug/l | J |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 2.8 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EXB-10 | | |
| **Lab Sample ID:** | JD52507-6 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | 0.96 | 5.0 | 0.60 | ug/l | J |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [a] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 103% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-32B | | |
| **Lab Sample ID:** | JD52507-7 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V92895.D | 1 | 09/28/22 02:49 | KM | n/a | n/a | V2V3773 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | 0.63 | 1.0 | 0.50 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 7.8 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-32B | | |
| **Lab Sample ID:** | JD52507-7 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | 0.58 | 1.0 | 0.54 | ug/l | J |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 35.1 | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [b] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 101% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-15C | | |
| **Lab Sample ID:** | JD52507-8 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1A226614.D | 1 | 09/30/22 14:33 | NW | n/a | n/a | V1A9705 |
| Run #2 | 1A226617.D | 10 | 09/30/22 15:45 | NW | n/a | n/a | V1A9705 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 4.6 | 10 | 3.1 | ug/l | J |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | 0.61 | 1.0 | 0.59 | ug/l | J |
| 156-59-2 | cis-1,2-Dichloroethene | 451 [a] | 10 | 5.1 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 1.7 | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-15C | | |
| **Lab Sample ID:** | JD52507-8 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 4.7 | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 19.1 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 99% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | 100% | 80-120% |
| 2037-26-5 | Toluene-D8 | 103% | 102% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 107% | 82-114% |

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-36B | | |
| **Lab Sample ID:** | JD52507-9 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V93013.D | 1 | 09/30/22 02:41 | KM | n/a | n/a | V2V3777 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 10.0 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-36B | | |
| **Lab Sample ID:** | JD52507-9 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 5.6 | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [a] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 102% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-46-72C | | |
| **Lab Sample ID:** | JD52507-10 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 1A226613.D | 20 | 09/30/22 14:09 | NW | n/a | n/a | V1A9705 |
| Run #2 | 1A226618.D | 100 | 09/30/22 16:09 | NW | n/a | n/a | V1A9705 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 200 | 61 | ug/l | |
| 71-43-2 | Benzene | ND | 10 | 8.5 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 20 | 9.0 | ug/l | |
| 75-25-2 | Bromoform | ND | 20 | 13 | ug/l | |
| 74-83-9 | Bromomethane | ND | 40 | 33 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 200 | 55 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 40 | 9.1 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 20 | 11 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 20 | 11 | ug/l | |
| 75-00-3 | Chloroethane | ND | 20 | 15 | ug/l | |
| 67-66-3 | Chloroform | ND | 20 | 10 | ug/l | |
| 74-87-3 | Chloromethane | ND | 20 | 15 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 100 | 16 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 40 | 11 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 20 | 11 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 20 | 9.5 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 20 | 11 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 20 | 11 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 20 | 10 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 40 | 11 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 20 | 11 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 20 | 12 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 20 | 12 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 11200 [b] | 100 | 51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 42.0 | 20 | 11 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 20 | 10 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 20 | 9.4 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 20 | 8.6 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 20 | 12 | ug/l | |
| 76-13-1 | Freon 113 | ND | 100 | 12 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 100 | 41 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 20 | 13 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-46-72C | | |
| **Lab Sample ID:** | JD52507-10 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 100 | 16 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 100 | 12 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 20 | 10 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 100 | 37 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 40 | 20 | ug/l | |
| 100-42-5 | Styrene | ND | 20 | 9.7 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 20 | 13 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 20 | 11 | ug/l | |
| 108-88-3 | Toluene | ND | 20 | 9.8 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 20 | 10 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 20 | 11 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 20 | 11 | ug/l | |
| 79-01-6 | Trichloroethene | 1090 | 20 | 11 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 40 | 8.0 | ug/l | |
| 75-01-4 | Vinyl chloride | 964 | 20 | 10 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 20 | 12 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 101% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 116% | 101% | 80-120% |
| 2037-26-5 | Toluene-D8 | 104% | 103% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | 98% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-46-43C | | |
| **Lab Sample ID:** | JD52507-11 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 2V93014.D | 100 | 09/30/22 03:04 | KM | n/a | n/a | V2V3777 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 1000 | 310 | ug/l | |
| 71-43-2 | Benzene | ND | 50 | 43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 100 | 45 | ug/l | |
| 75-25-2 | Bromoform | ND | 100 | 63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 200 | 160 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 1000 | 270 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 200 | 46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 100 | 55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 100 | 56 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 100 | 73 | ug/l | |
| 67-66-3 | Chloroform | ND | 100 | 50 | ug/l | |
| 74-87-3 | Chloromethane [c] | ND | 100 | 76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 500 | 78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 200 | 53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 100 | 56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 100 | 48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 100 | 53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 100 | 54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 100 | 51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 200 | 56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 100 | 57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 100 | 60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 100 | 59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 14600 | 100 | 51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 112 | 100 | 54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 100 | 51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 100 | 47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 100 | 43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 100 | 60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 500 | 58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 500 | 200 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 100 | 65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-46-43C | | |
| **Lab Sample ID:** | JD52507-11 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 500 | 80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 500 | 60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 100 | 51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 500 | 190 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 200 | 100 | ug/l | |
| 100-42-5 | Styrene | ND | 100 | 49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 100 | 65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 100 | 56 | ug/l | |
| 108-88-3 | Toluene | ND | 100 | 49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 100 | 50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 100 | 54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 100 | 53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 100 | 53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [b] | ND | 200 | 40 | ug/l | |
| 75-01-4 | Vinyl chloride | 8960 | 100 | 52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 100 | 59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 101% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 101% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(c) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-50-160D | | |
| **Lab Sample ID:** | JD52507-12 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 2V93015.D | 10 | 09/30/22 03:27 | KM | n/a | n/a | V2V3777 |
| Run #2 | 2A220444.D | 100 | 09/30/22 12:15 | NH | n/a | n/a | V2A9583 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 100 | 31 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 4.3 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 10 | 4.5 | ug/l | |
| 75-25-2 | Bromoform | ND | 10 | 6.3 | ug/l | |
| 74-83-9 | Bromomethane | ND | 20 | 16 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 100 | 27 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 20 | 4.6 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 10 | 5.5 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 10 | 5.6 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 10 | 7.3 | ug/l | |
| 67-66-3 | Chloroform | ND | 10 | 5.0 | ug/l | |
| 74-87-3 | Chloromethane [c] | ND | 10 | 7.6 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 50 | 7.8 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 20 | 5.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 10 | 5.6 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 10 | 4.8 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 10 | 5.3 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 10 | 5.4 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 10 | 5.1 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 20 | 5.6 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 10 | 5.7 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 10 | 6.0 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 10 | 5.9 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 3150 [d] | 100 | 51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 17.1 | 10 | 5.4 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 10 | 5.1 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 10 | 4.7 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 10 | 4.3 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 10 | 6.0 | ug/l | |
| 76-13-1 | Freon 113 | ND | 50 | 5.8 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 50 | 20 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 10 | 6.5 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-50-160D | | |
| **Lab Sample ID:** | JD52507-12 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 50 | 8.0 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 50 | 6.0 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 10 | 5.1 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 50 | 19 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 20 | 10 | ug/l | |
| 100-42-5 | Styrene | ND | 10 | 4.9 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 10 | 6.5 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 10 | 5.6 | ug/l | |
| 108-88-3 | Toluene | ND | 10 | 4.9 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 10 | 5.0 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 10 | 5.4 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 10 | 5.3 | ug/l | |
| 79-01-6 | Trichloroethene | 23.0 | 10 | 5.3 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [b] | ND | 20 | 4.0 | ug/l | |
| 75-01-4 | Vinyl chloride | 1120 | 10 | 5.2 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 10 | 5.9 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 102% | 111% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | 83% | 80-120% |
| 2037-26-5 | Toluene-D8 | 102% | 92% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | 111% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(c) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(d) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-092022 | | |
| **Lab Sample ID:** | JD52507-13 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 2V93016.D | 10 | 09/30/22 03:50 | KM | n/a | n/a | V2V3777 |
| Run #2 | 2A220446.D | 100 | 09/30/22 13:12 | NH | n/a | n/a | V2A9583 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 100 | 31 | ug/l | |
| 71-43-2 | Benzene | ND | 5.0 | 4.3 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 10 | 4.5 | ug/l | |
| 75-25-2 | Bromoform | ND | 10 | 6.3 | ug/l | |
| 74-83-9 | Bromomethane | ND | 20 | 16 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 100 | 27 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 20 | 4.6 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 10 | 5.5 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 10 | 5.6 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 10 | 7.3 | ug/l | |
| 67-66-3 | Chloroform | ND | 10 | 5.0 | ug/l | |
| 74-87-3 | Chloromethane [c] | ND | 10 | 7.6 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 50 | 7.8 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 20 | 5.3 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 10 | 5.6 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 10 | 4.8 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 10 | 5.3 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 10 | 5.4 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 10 | 5.1 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 20 | 5.6 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 10 | 5.7 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 10 | 6.0 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 10 | 5.9 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 3200 [d] | 100 | 51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 16.8 | 10 | 5.4 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 10 | 5.1 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 10 | 4.7 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 10 | 4.3 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 10 | 6.0 | ug/l | |
| 76-13-1 | Freon 113 | ND | 50 | 5.8 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 50 | 20 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 10 | 6.5 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-092022 | | |
| **Lab Sample ID:** | JD52507-13 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 50 | 8.0 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 50 | 6.0 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 10 | 5.1 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 50 | 19 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 20 | 10 | ug/l | |
| 100-42-5 | Styrene | ND | 10 | 4.9 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 10 | 6.5 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 10 | 5.6 | ug/l | |
| 108-88-3 | Toluene | ND | 10 | 4.9 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 10 | 5.0 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 10 | 5.4 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 10 | 5.3 | ug/l | |
| 79-01-6 | Trichloroethene | 24.0 | 10 | 5.3 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [b] | ND | 20 | 4.0 | ug/l | |
| 75-01-4 | Vinyl chloride | 1080 | 10 | 5.2 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 10 | 5.9 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | 109% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91% | 83% | 80-120% |
| 2037-26-5 | Toluene-D8 | 102% | 92% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | 110% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(c) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(d) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EB-092022 | | |
| **Lab Sample ID:** | JD52507-14 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V93009.D | 1 | 09/30/22 01:08 | KM | n/a | n/a | V2V3777 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | 2.0 | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EB-092022 | | |
| **Lab Sample ID:** | JD52507-14 | **Date Sampled:** | 09/20/22 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [a] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 101% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 101% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-20B | | |
| **Lab Sample ID:** | JD52507-15 | **Date Sampled:** | 09/21/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1A226450.D | 1 | 09/27/22 18:48 | NW | n/a | n/a | V1A9698 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-20B | | |
| **Lab Sample ID:** | JD52507-15 | **Date Sampled:** | 09/21/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 101% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 82-114% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-7B | | |
| **Lab Sample ID:** | JD52507-16 | **Date Sampled:** | 09/21/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1A226451.D | 1 | 09/27/22 19:12 | NW | n/a | n/a | V1A9698 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 4.5 | 10 | 3.1 | ug/l | J |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 1.7 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-7B | | |
| **Lab Sample ID:** | JD52507-16 | **Date Sampled:** | 09/21/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 82-114% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-12C | | |
| **Lab Sample ID:** | JD52507-17 | **Date Sampled:** | 09/21/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1A226452.D | 1 | 09/27/22 19:36 | NW | n/a | n/a | V1A9698 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 1.5 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-12C | | |
| **Lab Sample ID:** | JD52507-17 | **Date Sampled:** | 09/21/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 102% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 101% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 82-114% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-13C | | |
| **Lab Sample ID:** | JD52507-18 | **Date Sampled:** | 09/21/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1A226453.D | 1 | 09/27/22 20:00 | NW | n/a | n/a | V1A9698 |
| Run #2 | 1X200585.D | 10 | 09/29/22 12:06 | TS | n/a | n/a | V1X8637 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 3.1 | 10 | 3.1 | ug/l | J |
| 71-43-2 | Benzene | 3.7 | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | 0.52 | 1.0 | 0.50 | ug/l | J |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 163 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-13C | | |
| **Lab Sample ID:** | JD52507-18 | **Date Sampled:** | 09/21/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 219 [a] | 10 | 5.3 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 1.7 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | 96% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | 98% | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | 100% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 100% | 82-114% |

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-5-100 | | |
| **Lab Sample ID:** | JD52507-19 | **Date Sampled:** | 09/21/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1X200599.D | 1 | 09/29/22 17:32 | TS | n/a | n/a | V1X8637 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [a] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | 3.6 | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 33.4 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-5-100 | | |
| **Lab Sample ID:** | JD52507-19 | **Date Sampled:** | 09/21/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 35.4 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 102% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-4B | | |
| **Lab Sample ID:** | JD52507-20 | **Date Sampled:** | 09/21/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1A226455.D | 1 | 09/27/22 20:47 | NW | n/a | n/a | V1A9698 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 3.2 | 10 | 3.1 | ug/l | J |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-4B | | |
| **Lab Sample ID:** | JD52507-20 | **Date Sampled:** | 09/21/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 1.4 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 101% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 82-114% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-7-40 | | |
| **Lab Sample ID:** | JD52507-21 | **Date Sampled:** | 09/21/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1A226456.D | 1 | 09/27/22 21:11 | NW | n/a | n/a | V1A9698 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 150 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 2.2 | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-7-40 | | |
| **Lab Sample ID:** | JD52507-21 | **Date Sampled:** | 09/21/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 41.5 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 102% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 82-114% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-16-100 | | |
| **Lab Sample ID:** | JD52507-22 | **Date Sampled:** | 09/21/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1X200602.D | 1 | 09/29/22 18:41 | TS | n/a | n/a | V1X8637 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [a] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 4.0 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-16-100 | | |
| **Lab Sample ID:** | JD52507-22 | **Date Sampled:** | 09/21/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 19.0 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EB-092222 | | |
| **Lab Sample ID:** | JD52507-23 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V93010.D | 1 | 09/30/22 01:31 | KM | n/a | n/a | V2V3777 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EB-092222 | | |
| **Lab Sample ID:** | JD52507-23 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [a] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 102% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-18A | | |
| **Lab Sample ID:** | JD52507-24 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V93017.D | 1 | 09/30/22 04:14 | KM | n/a | n/a | V2V3777 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 4.8 | 10 | 3.1 | ug/l | J |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-18A | | |
| **Lab Sample ID:** | JD52507-24 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [a] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 101% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-8-40 | | |
| **Lab Sample ID:** | JD52507-25 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V93018.D | 1 | 09/30/22 04:37 | KM | n/a | n/a | V2V3777 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-8-40 | | |
| **Lab Sample ID:** | JD52507-25 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [a] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 104% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-22B | | |
| **Lab Sample ID:** | JD52507-26 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V93019.D | 1 | 09/30/22 05:00 | KM | n/a | n/a | V2V3777 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-22B | | |
| **Lab Sample ID:** | JD52507-26 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [a] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 104% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-1B | | |
| **Lab Sample ID:** | JD52507-27 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V93020.D | 1 | 09/30/22 05:23 | KM | n/a | n/a | V2V3777 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 1.7 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-1B | | |
| **Lab Sample ID:** | JD52507-27 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 2.5 | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [a] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 102% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-092222 | | |
| **Lab Sample ID:** | JD52507-28 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V93021.D | 1 | 09/30/22 05:46 | KM | n/a | n/a | V2V3777 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 1.7 | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-092222 | | |
| **Lab Sample ID:** | JD52507-28 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 2.7 | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [a] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 101% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-2B | | |
| **Lab Sample ID:** | JD52507-29 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | 2V93022.D | 50 | 09/30/22 06:09 | KM | n/a | n/a | V2V3777 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 500 | 150 | ug/l | |
| 71-43-2 | Benzene | ND | 25 | 21 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 50 | 23 | ug/l | |
| 75-25-2 | Bromoform | ND | 50 | 32 | ug/l | |
| 74-83-9 | Bromomethane | ND | 100 | 82 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 500 | 140 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 100 | 23 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 50 | 28 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 50 | 28 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 50 | 36 | ug/l | |
| 67-66-3 | Chloroform | ND | 50 | 25 | ug/l | |
| 74-87-3 | Chloromethane [c] | ND | 50 | 38 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 250 | 39 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 100 | 26 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 50 | 28 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 50 | 24 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 50 | 27 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 50 | 27 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 50 | 25 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 100 | 28 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 50 | 28 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 50 | 30 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 50 | 30 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 5720 | 50 | 25 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 31.8 | 50 | 27 | ug/l | J |
| 78-87-5 | 1,2-Dichloropropane | ND | 50 | 25 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 50 | 24 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 50 | 22 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 50 | 30 | ug/l | |
| 76-13-1 | Freon 113 | ND | 250 | 29 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 250 | 100 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 50 | 32 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-2B | | |
| **Lab Sample ID:** | JD52507-29 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 250 | 40 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 250 | 30 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 50 | 25 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 250 | 93 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 100 | 50 | ug/l | |
| 100-42-5 | Styrene | ND | 50 | 24 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 50 | 33 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 50 | 28 | ug/l | |
| 108-88-3 | Toluene | ND | 50 | 25 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 50 | 25 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 50 | 27 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 50 | 27 | ug/l | |
| 79-01-6 | Trichloroethene | 7600 | 50 | 26 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [b] | ND | 100 | 20 | ug/l | |
| 75-01-4 | Vinyl chloride | 67.9 | 50 | 26 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 50 | 30 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(c) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-3B | | |
| **Lab Sample ID:** | JD52507-30 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V93023.D | 1 | 09/30/22 06:32 | KM | n/a | n/a | V2V3777 |
| Run #2 | 2V93131.D | 20 | 10/03/22 14:14 | TS | n/a | n/a | V2V3782 |
| Run #3 | 2V93142.D | 200 | 10/03/22 18:30 | TS | n/a | n/a | V2V3782 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |
| Run #3 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | 0.50 | 2.0 | 0.46 | ug/l | J |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | 0.80 | 1.0 | 0.50 | ug/l | J |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | 16.8 | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 7150 [c] | 200 | 100 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 149 | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-3B | | |
| **Lab Sample ID:** | JD52507-30 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | 1.6 | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 4730 [c] | 200 | 110 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [a] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 110 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Run# 3 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 103% | 106% | 106% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | 98% | 100% | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | 102% | 105% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | 99% | 100% | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 3

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-5B | | |
| **Lab Sample ID:** | JD52507-31 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V93024.D | 1 | 09/30/22 06:55 | KM | n/a | n/a | V2V3777 |
| Run #2 | 2V93130.D | 20 | 10/03/22 13:51 | TS | n/a | n/a | V2V3782 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | 1.5 | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 795 [c] | 20 | 10 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 11.7 | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-5B | | |
| **Lab Sample ID:** | JD52507-31 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | 0.81 | 1.0 | 0.56 | ug/l | J |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | 554 [c] | 20 | 11 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [a] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | 27.7 | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | 105% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91% | 98% | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | 105% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | 96% | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-17-40 | | |
| **Lab Sample ID:** | JD52507-32 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V93136.D | 1 | 10/03/22 16:10 | TS | n/a | n/a | V2V3782 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [a] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-17-40 | | |
| **Lab Sample ID:** | JD52507-32 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride [c] | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 107% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 105% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spkie is outside in house QC limits bias high.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(c) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EB-092222 | | |
| **Lab Sample ID:** | JD52507-33 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V93011.D | 1 | 09/30/22 01:54 | KM | n/a | n/a | V2V3777 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EB-092222 | | |
| **Lab Sample ID:** | JD52507-33 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [a] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 102% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-26A | | |
| **Lab Sample ID:** | JD52507-34 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V93137.D | 1 | 10/03/22 16:33 | TS | n/a | n/a | V2V3782 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [a] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-26A | | |
| **Lab Sample ID:** | JD52507-34 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride [c] | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 104% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spkie is outside in house QC limits bias high.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(c) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-25A | | |
| **Lab Sample ID:** | JD52507-35 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V93146.D | 1 | 10/03/22 20:03 | TS | n/a | n/a | V2V3782 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane [a] | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [b] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-25A | | |
| **Lab Sample ID:** | JD52507-35 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride [c] | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 106% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 104% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spkie is outside in house QC limits bias high.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(c) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | JD52507-36 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Trip Blank Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2V93012.D | 1 | 09/30/22 02:17 | KM | n/a | n/a | V2V3777 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane [a] | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | 1.4 | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane [b] | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | JD52507-36 | **Date Sampled:** | 09/22/22 |
| **Matrix:** | AQ - Trip Blank Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane [a] | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 102% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | | 82-114% |

(a) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EXB-11 | | |
| **Lab Sample ID:** | JD52507-37 | **Date Sampled:** | 09/21/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | L347837.D | 5 | 10/04/22 13:48 | NH | n/a | n/a | VL10519 |
| Run #2 | L347836.D | 50 | 10/04/22 13:25 | NH | n/a | n/a | VL10519 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 50 | 15 | ug/l | |
| 71-43-2 | Benzene | ND | 2.5 | 2.1 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 2.3 | ug/l | |
| 75-25-2 | Bromoform | ND | 5.0 | 3.2 | ug/l | |
| 74-83-9 | Bromomethane [b] | ND | 10 | 8.2 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 50 | 14 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 10 | 2.3 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 2.8 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 2.8 | ug/l | |
| 75-00-3 | Chloroethane | ND | 5.0 | 3.6 | ug/l | |
| 67-66-3 | Chloroform | ND | 5.0 | 2.5 | ug/l | |
| 74-87-3 | Chloromethane | ND | 5.0 | 3.8 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 25 | 3.9 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 10 | 2.6 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 2.8 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | 2.4 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | 2.7 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | 2.7 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | 2.5 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 10 | 2.8 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 2.8 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 3.0 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 5.0 | 3.0 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | 1830 [c] | 50 | 25 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | 33.6 | 5.0 | 2.7 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 2.5 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 2.4 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | 2.2 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 3.0 | ug/l | |
| 76-13-1 | Freon 113 [d] | ND | 25 | 2.9 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 25 | 10 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 5.0 | 3.2 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EXB-11 | | |
| **Lab Sample ID:** | JD52507-37 | **Date Sampled:** | 09/21/22 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 09/24/22 |
| **Method:** | SW846 8260D | **Percent Solids:** | n/a |
| **Project:** | EPT, Ithaca, NY | | |

**VOA TCL List (OLM4.2)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 79-20-9 | Methyl Acetate | ND | 25 | 4.0 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 25 | 3.0 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.0 | 2.5 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 25 | 9.3 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 10 | 5.0 | ug/l | |
| 100-42-5 | Styrene | ND | 5.0 | 2.4 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | 3.3 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 5.0 | 2.8 | ug/l | |
| 108-88-3 | Toluene | ND | 5.0 | 2.5 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 2.5 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 2.7 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 2.7 | ug/l | |
| 79-01-6 | Trichloroethene | 400 | 5.0 | 2.6 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 10 | 2.0 | ug/l | |
| 75-01-4 | Vinyl chloride | 13.8 | 5.0 | 2.6 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 5.0 | 3.0 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 95% | 93% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% | 91% | 80-120% |
| 2037-26-5 | Toluene-D8 | 97% | 98% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 91% | 91% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2
(d) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

## Misc. Forms

# Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

SGS

# CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

Page 1 of 3 PN

FED-EX Tracking # 5894-7366-4070
Bottle Order Control # TS-091222-5
SGS Quote #
SGS Job # JD52507

**Client / Reporting Information**

Company Name: WSP USA
Street Address:
City State Zip:
Project Contact E-mail: NATHANIEL.WINSTON@WSP.com
Phone #: 315-420-9973
Sampler(s) Name(s) Phone #: NATE WINSTON

**Project Information**

Project Name: FORMER EPT - ITHACA
Street: 620 SOUTH AUBURN
City State: ITHACA, NY
Project #: 31401545.001
Client Purchase Order #:
Project Manager:

Billing Information (If different from Report to)
Company Name:
Street Address:
City State Zip:
Attention:

8260 VOCs, TCL 40

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

| SGS Sample # | Field ID / Point of Collection | MEOH/DI Vial # | Collection Date | Collection Time | Sampled by | Grab (G) Comp (C) | Source Chlorinated (Y/N) | Matrix | # of bottles | HCl | NaOH | $HNO_3$ | $H_2SO_4$ | NONE | DI Water | MEOH | ENCORE | pH Check (Lab Use Only) | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EXB-9 | | 9/19/22 | 1400 | NW | G | N | GW | 3 | X | | | | | | | | X | |
| 2 | EB-091922 | | 9/19/22 | 1630 | | | | | 3 | | | | | | | | | X | |
| 3 | MW-5-40 | | 9/20/22 | 1030 | | | | | 3 | | | | | | | | | X | |
| 4 | MW-5-25 | | | 1035 | | | | | 3 | | | | | | | | | X | |
| 5 | MW-8B | | | 1040 | | | | | 3 | | | | | | | | | X | |
| 6 | EXB-10-MS/MD | | | 1050 | | | | | 9 | | | | | | | | | X | |
| 7 | MW-32B | | | 1350 | | | | | 3 | | | | | | | | | X | |
| 8 | MW-15C | | | 1440 | | | | | 3 | | | | | | | | | X | |
| 9 | MW-36B | | | 1445 | | | | | 3 | | | | | | | | | X | |
| 10 | MW-46-72C-MS/MSD | | | 1455 | | | | | 9 | | | | | | | | | X | |
| 11 | MW-46-43C | | | 1505 | | | | | 3 | | | | | | | | | X | |
| 12 | MW-50-160D | | | 1600 | | | | | 3 | | | | | | | | | X | |

**Turn Around Time (Business Days)**

- ☐ 10 Business Days
- ☐ 5 Business Days
- ☐ 3 Business Days*
- ☐ 2 Business Days*
- ☐ 1 Business Day*
- ☐ Other

7-DAY

All data available via SGS Engage

Approved By (SGS PM) / Date:

Initial Assessment: NA (3B)

Label Verification:

* Approval needed for 1-3 BD TAT

**Deliverable**

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ NJ Reduced (Level 3)
- ☐ Full Tier I (Level 4)
- ☐ Commercial "C"
- ☐ NJ DKQP
- ☐ NYASP Category A
- ☒ NYASP Category B NYSDEC CAT B
- ☐ MA MCP Criteria
- ☐ CT RCP Criteria
- ☐ State Forms
- ☐ EDD Format

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

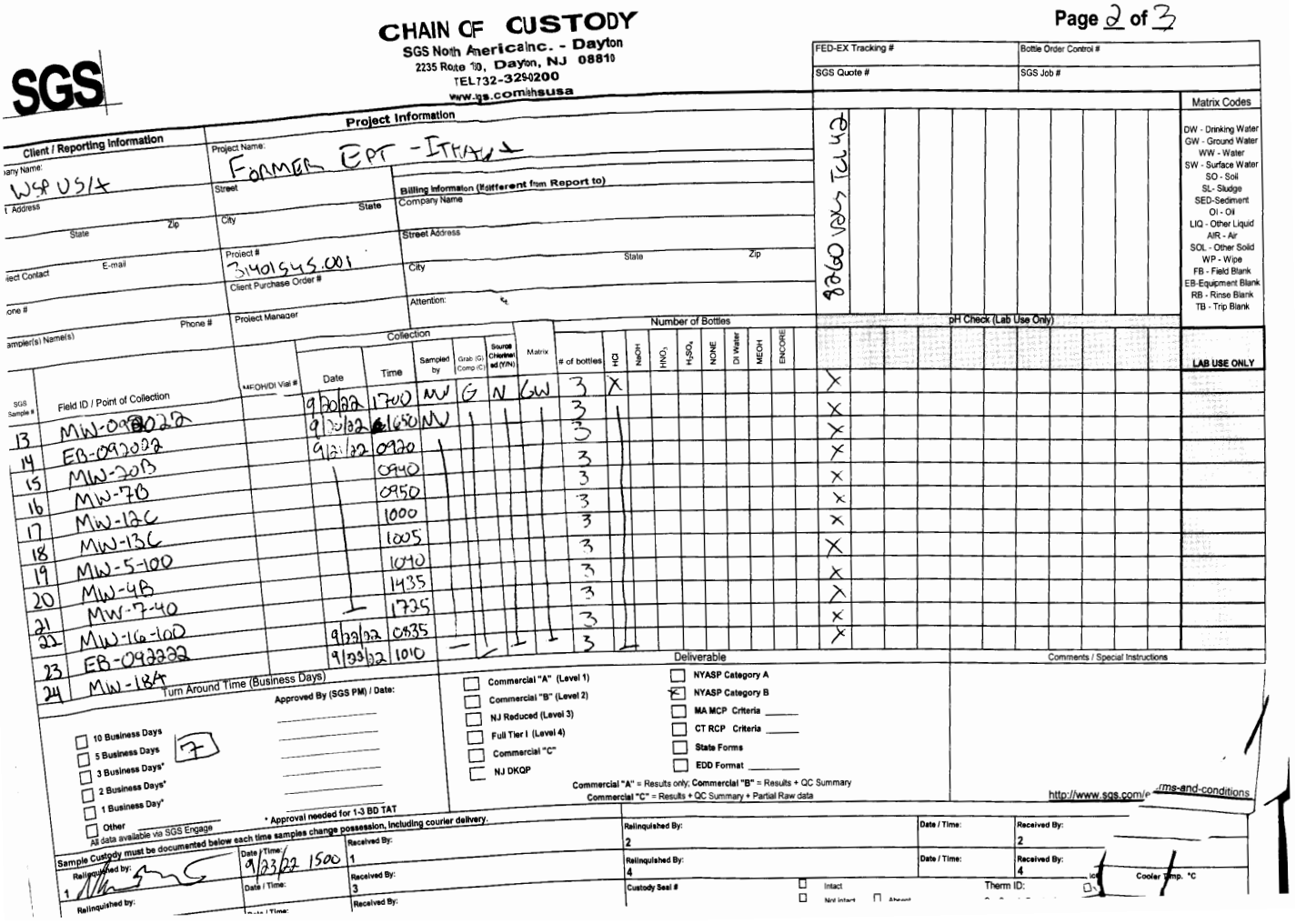
Comments / Special Instructions

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

| Relinquished by: | Date / Time: | Received By: | Relinquished By: | Date / Time: | Received By: |
|---|---|---|---|---|---|
| 1 [signature] | 9/23/22 1500 | 1 Fedex | 2 Fedex | 09/24/22 | 2 0:00 |
| 3 | | 3 | 4 | | 4 |
| 5 | | 5 | Custody Seal # | ☐ Intact ☐ Not intact ☐ Absent | Therm ID: See Sample Receipt Summary; Cooler Temp. °C: 2.1 |

JD52507: Chain of Custody
Page 1 of 5



CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL 732-329-0200
www.sgs.com/hsusa

Page 2 of 3

SGS

FED-EX Tracking #
Bottle Order Control #
SGS Quote #
SGS Job #

Client / Reporting Information
Company Name: WSP USA
Address
City State Zip
Project Manager E-mail
Phone #
Sampler(s) Name(s)

Project Information
Project Name: FORMER EPT - ITHACA
Street
City State
Project # 31401545.001
Client Purchase Order #
Project Manager
Attention:

Billing Information (If different from Report to)
Company Name
Street Address
City State Zip

8260 VOCs TCL 43

Matrix Codes
DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

| SGS Sample # | Field ID / Point of Collection | MEOH/DI Vial # | Collection Date | Collection Time | Sampled by | Grab (G) Comp (C) | Source Chlorinated (Y/N) | Matrix | # of bottles | Number of Bottles: HCl | NaOH | $HNO_3$ | $H_2SO_4$ | NONE | DI Water | MEOH | ENCORE | pH Check (Lab Use Only) | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | MW-09[illegible]022 | | 9/20/22 | 1700 | MW | G | N | GW | 3 | X | | | | | | | | X | |
| 14 | EB-092022 | | 9/20/22 | 1650 | MW | | | | 3 | | | | | | | | | X | |
| 15 | MW-20B | | 9/21/22 | 0920 | | | | | 3 | | | | | | | | | X | |
| 16 | MW-7D | | | 0940 | | | | | 3 | | | | | | | | | X | |
| 17 | MW-12C | | | 0950 | | | | | 3 | | | | | | | | | X | |
| 18 | MW-13C | | | 1000 | | | | | 3 | | | | | | | | | X | |
| 19 | MW-5-100 | | | 1005 | | | | | 3 | | | | | | | | | X | |
| 20 | MW-4B | | | 1010 | | | | | 3 | | | | | | | | | X | |
| 21 | MW-7-40 | | | 1435 | | | | | 3 | | | | | | | | | X | |
| 22 | MW-16-100 | | | 1725 | | | | | 3 | | | | | | | | | X | |
| 23 | EB-092222 | | 9/22/22 | 0835 | | | | | 3 | | | | | | | | | X | |
| 24 | MW-18A | | 9/22/22 | 1010 | | | | | 3 | | | | | | | | | X | |

Turn Around Time (Business Days)
Approved By (SGS PM) / Date:
☐ 10 Business Days
☐ 5 Business Days
☐ 3 Business Days*
☐ 2 Business Days*
☐ 1 Business Day*
☐ Other
All data available via SGS Engage
* Approval needed for 1-3 BD TAT

Deliverable
☐ Commercial "A" (Level 1)
☐ Commercial "B" (Level 2)
☐ NJ Reduced (Level 3)
☐ Full Tier I (Level 4)
☐ Commercial "C"
☐ NJ DKQP
☐ NYASP Category A
☒ NYASP Category B
☐ MA MCP Criteria
☐ CT RCP Criteria
☐ State Forms
☐ EDD Format
Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions
http://www.sgs.com/e[illegible]rms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

| | Relinquished By: | Date / Time: | Received By: |
|---|---|---|---|
| 1 | | 9/23/22 1500 | 1 |
| 2 | Relinquished By: | Date / Time: | Received By: 2 |
| 3 | | | Received By: 3 |
| 4 | Relinquished By: 4 | Date / Time: | Received By: 4 |

Custody Seal # ☐ Intact ☐ Not Intact ☐ Absent
Therm ID: Cooler Temp. °C

SGS

# CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

Page 3 of 3

FED-EX Tracking # | Bottle Order Control #
SGS Quote # | SGS Job #

**Client / Reporting Information**

Company Name: WSP USA
Street Address:
City State Zip:
Project Contact E-mail:
Phone #:
Sampler(s) Name(s) Phone #:

**Project Information**

Project Name: FORMER EDT - ITHACA
Street:
City State:
Project #: 31401545.001
Client Purchase Order #:
Project Manager:

**Billing Information (if different from Report to)**

Company Name:
Street Address:
City State Zip:
Attention:

8260 TCL 42

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

| SGS Sample # | Field ID / Point of Collection | MEOH/DI Vial # | Collection Date | Collection Time | Sampled by | Grab (G) Comp (C) | Source Chlorinated (Y/N) | Matrix | # of bottles | HCl | HONV | HNO3 | H2SO4 | NONE | DI Water | MEOH | ENCORE | pH Check (Lab Use Only) | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | MW-8-40 | | 9/22/22 | 1020 | MW | G | N | GW | 3 | X | | | | | | | | X | |
| 26 | MW-22B | | | 1030 | | | | | 3 | X | | | | | | | | X | |
| 27 | MW-1B | | | 1045 | | | | | 3 | X | | | | | | | | X | |
| 28 | MW-092222 | | | 0800 | | | | | 3 | X | | | | | | | | X | |
| 29 | MW-2B | | | 1100 | | | | | 3 | X | | | | | | | | X | |
| 30 | MW-3B | | | 1110 | | | | | 3 | X | | | | | | | | X | |
| 31 | MW-5B | | | 1120 | | | | | 3 | X | | | | | | | | X | |
| 32 | MW-17-40 | | | 1115 | | | | | 3 | X | | | | | | | | X | |
| 33 | EB-092222 | | | 1310 | | | | | 3 | X | | | | | | | | X | |
| 34 | MW-26A | | | 1410 | | | | | 3 | X | | | | | | | | X | |
| 35 | MW-25A | | | 1430 | | | | | 3 | X | | | | | | | | X | |
| 36 | TRIP BLANK | | — | — | — | — | — | — | 2 | X | | | | | | | | X | |
| 37 | EXB-11 | | 9/21/22 | 10:45 | | | | | | | | | | | | | | | |

Turn Around Time (Business Days)

- [ ] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

7DAY

Approved By (SGS PM) / Date:

All data available via SGS Engage

* Approval needed for 1-3 BD TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

| | Relinquished by: | Date / Time: | Received By: |
|---|---|---|---|
| 1 | | 9/23/22 1500 | 1 |
| 2 | Relinquished By: | Date / Time: | Received By: 2 |
| 3 | Relinquished by: | Date / Time: | Received By: 3 |
| 4 | Relinquished By: | Date / Time: | Received By: 4 |
| 5 | Relinquished by: | Date / Time: | Received By: 5 |

Custody Seal # — [ ] Intact [ ] Not intact [ ] Absent

Therm ID: — See Sample Receipt Summary — On Ice [ ] — Cooler Temp. °C

EHSA-QAC-0023-05 Rev.Date:8/5/22

# SGS Sample Receipt Summary

**Job Number:** JD52507 **Client:** WSP **Project:** EPT, ITHACA, NY

**Date / Time Received:** 9/24/2022 10:00:00 AM **Delivery Method:** FEDEX **Airbill #'s:**

**Cooler Temps (Raw Measured) °C:** Cooler 1: (2.1);

**Cooler Temps (Corrected) °C:** Cooler 1: (2.7);

| Cooler Security | Y | or | N | | Y | or | N |
|---|---|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | | ☐ | 3. COC Present: | ☑ | | ☐ |
| 2. Custody Seals Intact: | ☑ | | ☐ | 4. Smpl Dates/Time OK | ☑ | | ☐ |

| Cooler Temperature | Y | or | N |
|---|---|---|---|
| 1. Temp criteria achieved: | ☑ | | ☐ |
| 2. Cooler temp verification: | IR Gun | | |
| 3. Cooler media: | Ice (Bag) | | |
| 4. No. Coolers: | 1 | | |

| Quality Control _Preservation | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Trip Blank present / cooler: | ☑ | | ☐ | ☐ |
| 2. Trip Blank listed on COC: | ☑ | | ☐ | ☐ |
| 3. Samples preserved properly: | ☑ | | ☐ | |
| 4. VOCs headspace free: | ☑ | | ☐ | ☐ |

| Sample Integrity - Documentation | Y | or | N |
|---|---|---|---|
| 1. Sample labels present on bottles: | ☑ | | ☐ |
| 2. Container labeling complete: | ☑ | | ☐ |
| 3. Sample container label / COC agree: | ☑ | | ☐ |

| Sample Integrity - Condition | Y | or | N |
|---|---|---|---|
| 1. Sample recvd within HT: | ☑ | | ☐ |
| 2. All containers accounted for: | ☑ | | ☐ |
| 3. Condition of sample: | Intact | | |

| Sample Integrity - Instructions | Y | or | N | N/A |
|---|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | | ☐ | |
| 4. Compositing instructions clear: | ☐ | | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | | ☐ | ☑ |

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments: Received additional sample EXB-11 appended to coc as -37

Responded to by: Tammy Esposito McCloskey Response Date: 9/27/2022

EXB-11 should be added and analyzed for VO per Nathaniel Winston.

# Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

**Job No:** JD52507

EPT, Ithaca, NY
Project No: 31401545.001

| Sample Number | Method | Analyzed | By | Prepped | By | Test Codes |
|---|---|---|---|---|---|---|
| JD52507-1 EXB-9 | Collected: 19-SEP-22 14:00 By: NW | | Received: 24-SEP-22 By: EN | | | |
| JD52507-1 | SW846 8260D | 28-SEP-22 01:16 | KM | | | V8260TCL42 |
| JD52507-2 EB-091922 | Collected: 19-SEP-22 16:30 By: NW | | Received: 24-SEP-22 By: EN | | | |
| JD52507-2 | SW846 8260D | 28-SEP-22 00:30 | KM | | | V8260TCL42 |
| JD52507-3 MW-5-40 | Collected: 20-SEP-22 10:30 By: NW | | Received: 24-SEP-22 By: EN | | | |
| JD52507-3 | SW846 8260D | 28-SEP-22 01:39 | KM | | | V8260TCL42 |
| JD52507-3 | SW846 8260D | 29-SEP-22 13:11 | NH | | | V8260TCL42 |
| JD52507-4 MW-5-25 | Collected: 20-SEP-22 10:35 By: NW | | Received: 24-SEP-22 By: EN | | | |
| JD52507-4 | SW846 8260D | 28-SEP-22 02:03 | KM | | | V8260TCL42 |
| JD52507-5 MW-8B | Collected: 20-SEP-22 10:40 By: NW | | Received: 24-SEP-22 By: EN | | | |
| JD52507-5 | SW846 8260D | 28-SEP-22 02:26 | KM | | | V8260TCL42 |
| JD52507-6 EXB-10 | Collected: 20-SEP-22 10:50 By: NW | | Received: 24-SEP-22 By: EN | | | |
| JD52507-6 | SW846 8260D | 27-SEP-22 22:57 | KM | | | V8260TCL42 |
| JD52507-7 MW-32B | Collected: 20-SEP-22 13:50 By: NW | | Received: 24-SEP-22 By: EN | | | |
| JD52507-7 | SW846 8260D | 28-SEP-22 02:49 | KM | | | V8260TCL42 |
| JD52507-8 MW-15C | Collected: 20-SEP-22 14:40 By: NW | | Received: 24-SEP-22 By: EN | | | |
| JD52507-8 | SW846 8260D | 30-SEP-22 14:33 | NW | | | V8260TCL42 |

# Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

**Job No:** JD52507

EPT, Ithaca, NY
Project No: 31401545.001

| Sample Number | Method | Analyzed | By | Prepped | By | Test Codes |
|---|---|---|---|---|---|---|
| JD52507-8 | SW846 8260D | 30-SEP-22 15:45 | NW | | | V8260TCL42 |
| JD52507-9 | Collected: 20-SEP-22 14:45 By: NW | | Received: 24-SEP-22 By: EN | | | |
| MW-36B | | | | | | |
| JD52507-9 | SW846 8260D | 30-SEP-22 02:41 | KM | | | V8260TCL42 |
| JD52507-10 | Collected: 20-SEP-22 14:55 By: NW | | Received: 24-SEP-22 By: EN | | | |
| MW-46-72C | | | | | | |
| JD52507-10 | SW846 8260D | 30-SEP-22 14:09 | NW | | | V8260TCL42 |
| JD52507-10 | SW846 8260D | 30-SEP-22 16:09 | NW | | | V8260TCL42 |
| JD52507-11 | Collected: 20-SEP-22 15:05 By: NW | | Received: 24-SEP-22 By: EN | | | |
| MW-46-43C | | | | | | |
| JD52507-11 | SW846 8260D | 30-SEP-22 03:04 | KM | | | V8260TCL42 |
| JD52507-12 | Collected: 20-SEP-22 16:00 By: NW | | Received: 24-SEP-22 By: EN | | | |
| MW-50-160D | | | | | | |
| JD52507-12 | SW846 8260D | 30-SEP-22 03:27 | KM | | | V8260TCL42 |
| JD52507-12 | SW846 8260D | 30-SEP-22 12:15 | NH | | | V8260TCL42 |
| JD52507-13 | Collected: 20-SEP-22 17:00 By: NW | | Received: 24-SEP-22 By: EN | | | |
| MW-092022 | | | | | | |
| JD52507-13 | SW846 8260D | 30-SEP-22 03:50 | KM | | | V8260TCL42 |
| JD52507-13 | SW846 8260D | 30-SEP-22 13:12 | NH | | | V8260TCL42 |
| JD52507-14 | Collected: 20-SEP-22 16:50 By: NW | | Received: 24-SEP-22 By: EN | | | |
| EB-092022 | | | | | | |
| JD52507-14 | SW846 8260D | 30-SEP-22 01:08 | KM | | | V8260TCL42 |
| JD52507-15 | Collected: 21-SEP-22 09:20 By: NW | | Received: 24-SEP-22 By: EN | | | |
| MW-20B | | | | | | |
| JD52507-15 | SW846 8260D | 27-SEP-22 18:48 | NW | | | V8260TCL42 |

# Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

**Job No:** JD52507

EPT, Ithaca, NY
Project No: 31401545.001



| Sample Number | Method | Analyzed | By | Prepped | By | Test Codes |
|---|---|---|---|---|---|---|
| JD52507-16 | Collected: 21-SEP-22 09:40 By: NW | | Received: 24-SEP-22 By: EN | | | |
| MW-7B | | | | | | |
| JD52507-16 | SW846 8260D | 27-SEP-22 19:12 | NW | | | V8260TCL42 |
| JD52507-17 | Collected: 21-SEP-22 09:50 By: NW | | Received: 24-SEP-22 By: EN | | | |
| MW-12C | | | | | | |
| JD52507-17 | SW846 8260D | 27-SEP-22 19:36 | NW | | | V8260TCL42 |
| JD52507-18 | Collected: 21-SEP-22 10:00 By: NW | | Received: 24-SEP-22 By: EN | | | |
| MW-13C | | | | | | |
| JD52507-18 | SW846 8260D | 27-SEP-22 20:00 | NW | | | V8260TCL42 |
| JD52507-18 | SW846 8260D | 29-SEP-22 12:06 | TS | | | V8260TCL42 |
| JD52507-19 | Collected: 21-SEP-22 10:05 By: NW | | Received: 24-SEP-22 By: EN | | | |
| MW-5-100 | | | | | | |
| JD52507-19 | SW846 8260D | 29-SEP-22 17:32 | TS | | | V8260TCL42 |
| JD52507-20 | Collected: 21-SEP-22 10:40 By: NW | | Received: 24-SEP-22 By: EN | | | |
| MW-4B | | | | | | |
| JD52507-20 | SW846 8260D | 27-SEP-22 20:47 | NW | | | V8260TCL42 |
| JD52507-21 | Collected: 21-SEP-22 14:35 By: NW | | Received: 24-SEP-22 By: EN | | | |
| MW-7-40 | | | | | | |
| JD52507-21 | SW846 8260D | 27-SEP-22 21:11 | NW | | | V8260TCL42 |
| JD52507-22 | Collected: 21-SEP-22 17:25 By: NW | | Received: 24-SEP-22 By: EN | | | |
| MW-16-100 | | | | | | |
| JD52507-22 | SW846 8260D | 29-SEP-22 18:41 | TS | | | V8260TCL42 |
| JD52507-23 | Collected: 22-SEP-22 08:35 By: NW | | Received: 24-SEP-22 By: EN | | | |
| EB-092222 | | | | | | |

# Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

**Job No:** JD52507

EPT, Ithaca, NY
Project No: 31401545.001

| Sample Number | Method | Analyzed | By | Prepped | By | Test Codes |
|---|---|---|---|---|---|---|
| JD52507-23 | SW846 8260D | 30-SEP-22 01:31 | KM | | | V8260TCL42 |
| JD52507-24 | Collected: 22-SEP-22 10:10 By: NW<br>MW-18A | | Received: 24-SEP-22 By: EN | | | |
| JD52507-24 | SW846 8260D | 30-SEP-22 04:14 | KM | | | V8260TCL42 |
| JD52507-25 | Collected: 22-SEP-22 10:20 By: NW<br>MW-8-40 | | Received: 24-SEP-22 By: EN | | | |
| JD52507-25 | SW846 8260D | 30-SEP-22 04:37 | KM | | | V8260TCL42 |
| JD52507-26 | Collected: 22-SEP-22 10:30 By: NW<br>MW-22B | | Received: 24-SEP-22 By: EN | | | |
| JD52507-26 | SW846 8260D | 30-SEP-22 05:00 | KM | | | V8260TCL42 |
| JD52507-27 | Collected: 22-SEP-22 10:45 By: NW<br>MW-1B | | Received: 24-SEP-22 By: EN | | | |
| JD52507-27 | SW846 8260D | 30-SEP-22 05:23 | KM | | | V8260TCL42 |
| JD52507-28 | Collected: 22-SEP-22 08:00 By: NW<br>MW-092222 | | Received: 24-SEP-22 By: EN | | | |
| JD52507-28 | SW846 8260D | 30-SEP-22 05:46 | KM | | | V8260TCL42 |
| JD52507-29 | Collected: 22-SEP-22 11:00 By: NW<br>MW-2B | | Received: 24-SEP-22 By: EN | | | |
| JD52507-29 | SW846 8260D | 30-SEP-22 06:09 | KM | | | V8260TCL42 |
| JD52507-30 | Collected: 22-SEP-22 11:10 By: NW<br>MW-3B | | Received: 24-SEP-22 By: EN | | | |
| JD52507-30 | SW846 8260D | 30-SEP-22 06:32 | KM | | | V8260TCL42 |
| JD52507-30 | SW846 8260D | 03-OCT-22 14:14 | TS | | | V8260TCL42 |
| JD52507-30 | SW846 8260D | 03-OCT-22 18:30 | TS | | | V8260TCL42 |

# Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

**Job No:** JD52507

EPT, Ithaca, NY
Project No: 31401545.001

| Sample Number | Method | Analyzed | By | Prepped | By | Test Codes |
|---|---|---|---|---|---|---|
| JD52507-31 Collected: 22-SEP-22 11:20 By: NW MW-5B | | | Received: 24-SEP-22 By: EN | | | |
| JD52507-31 | SW846 8260D | 30-SEP-22 06:55 | KM | | | V8260TCL42 |
| JD52507-31 | SW846 8260D | 03-OCT-22 13:51 | TS | | | V8260TCL42 |
| JD52507-32 Collected: 22-SEP-22 11:15 By: NW MW-17-40 | | | Received: 24-SEP-22 By: EN | | | |
| JD52507-32 | SW846 8260D | 03-OCT-22 16:10 | TS | | | V8260TCL42 |
| JD52507-33 Collected: 22-SEP-22 13:10 By: NW EB-092222 | | | Received: 24-SEP-22 By: EN | | | |
| JD52507-33 | SW846 8260D | 30-SEP-22 01:54 | KM | | | V8260TCL42 |
| JD52507-34 Collected: 22-SEP-22 14:10 By: NW MW-26A | | | Received: 24-SEP-22 By: EN | | | |
| JD52507-34 | SW846 8260D | 03-OCT-22 16:33 | TS | | | V8260TCL42 |
| JD52507-35 Collected: 22-SEP-22 14:20 By: NW MW-25A | | | Received: 24-SEP-22 By: EN | | | |
| JD52507-35 | SW846 8260D | 03-OCT-22 20:03 | TS | | | V8260TCL42 |
| JD52507-36 Collected: 22-SEP-22 14:20 By: NW TRIP BLANK | | | Received: 24-SEP-22 By: EN | | | |
| JD52507-36 | SW846 8260D | 30-SEP-22 02:17 | KM | | | V8260TCL42 |
| JD52507-37 Collected: 21-SEP-22 10:45 By: NW EXB-11 | | | Received: 24-SEP-22 By: EN | | | |
| JD52507-37 | SW846 8260D | 04-OCT-22 13:25 | NH | | | V8260TCL42 |
| JD52507-37 | SW846 8260D | 04-OCT-22 13:48 | NH | | | V8260TCL42 |

# SGS Internal Chain of Custody



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Received:** 09/24/22



| Sample.Bottle Number | Transfer FROM | Transfer TO | Date/Time | Reason |
|---|---|---|---|---|
| JD52507-1.2 | Secured Storage | Kyle McKeon | 09/27/22 15:47 | Retrieve from Storage |
| JD52507-1.2 | Kyle McKeon | GCMS2V | 09/27/22 15:47 | Load on Instrument |
| JD52507-1.2 | GCMS2V | Kyle McKeon | 09/28/22 16:03 | Unload from Instrument |
| JD52507-1.2 | Kyle McKeon | Secured Storage | 09/28/22 16:03 | Return to Storage |
| JD52507-2.2 | Secured Storage | Kyle McKeon | 09/27/22 15:47 | Retrieve from Storage |
| JD52507-2.2 | Kyle McKeon | GCMS2V | 09/27/22 15:47 | Load on Instrument |
| JD52507-2.2 | GCMS2V | Kyle McKeon | 09/28/22 16:03 | Unload from Instrument |
| JD52507-2.2 | Kyle McKeon | Secured Storage | 09/28/22 16:03 | Return to Storage |
| JD52507-3.1 | Secured Storage | Kyle McKeon | 09/27/22 15:47 | Retrieve from Storage |
| JD52507-3.1 | Kyle McKeon | GCMS2V | 09/27/22 15:47 | Load on Instrument |
| JD52507-3.1 | GCMS2V | Kyle McKeon | 09/28/22 16:03 | Unload from Instrument |
| JD52507-3.1 | Kyle McKeon | Secured Storage | 09/28/22 16:03 | Return to Storage |
| JD52507-3.2 | Secured Storage | Nicole Hornlien | 09/29/22 16:23 | Retrieve from Storage |
| JD52507-3.2 | Nicole Hornlien | GCMS2A | 09/29/22 16:23 | Load on Instrument |
| JD52507-3.2 | GCMS2A | Nicole Hornlien | 09/30/22 16:12 | Unload from Instrument |
| JD52507-3.2 | Nicole Hornlien | Secured Storage | 09/30/22 16:12 | Return to Storage |
| JD52507-4.1 | Secured Storage | Kyle McKeon | 09/27/22 15:47 | Retrieve from Storage |
| JD52507-4.1 | Kyle McKeon | GCMS2V | 09/27/22 15:47 | Load on Instrument |
| JD52507-4.1 | GCMS2V | Kyle McKeon | 09/28/22 16:03 | Unload from Instrument |
| JD52507-4.1 | Kyle McKeon | Secured Storage | 09/28/22 16:03 | Return to Storage |
| JD52507-5.2 | Secured Storage | Kyle McKeon | 09/27/22 15:47 | Retrieve from Storage |
| JD52507-5.2 | Kyle McKeon | GCMS2V | 09/27/22 15:47 | Load on Instrument |
| JD52507-5.2 | GCMS2V | Kyle McKeon | 09/28/22 16:03 | Unload from Instrument |
| JD52507-5.2 | Kyle McKeon | Secured Storage | 09/28/22 16:03 | Return to Storage |
| JD52507-6.3 | Secured Storage | Kyle McKeon | 09/27/22 15:48 | Retrieve from Storage |
| JD52507-6.3 | Kyle McKeon | GCMS2V | 09/27/22 15:48 | Load on Instrument |
| JD52507-6.3 | GCMS2V | Kyle McKeon | 09/28/22 16:03 | Unload from Instrument |
| JD52507-6.3 | Kyle McKeon | Secured Storage | 09/28/22 16:03 | Return to Storage |
| JD52507-6.7 | Secured Storage | Kyle McKeon | 09/27/22 15:48 | Retrieve from Storage |
| JD52507-6.7 | Kyle McKeon | GCMS2V | 09/27/22 15:48 | Load on Instrument |
| JD52507-6.7 | GCMS2V | Kyle McKeon | 09/28/22 16:03 | Unload from Instrument |
| JD52507-6.7 | Kyle McKeon | Secured Storage | 09/28/22 16:03 | Return to Storage |
| JD52507-6.8 | Secured Storage | Kyle McKeon | 09/27/22 15:47 | Retrieve from Storage |
| JD52507-6.8 | Kyle McKeon | GCMS2V | 09/27/22 15:47 | Load on Instrument |
| JD52507-6.8 | GCMS2V | Kyle McKeon | 09/28/22 16:03 | Unload from Instrument |
| JD52507-6.8 | Kyle McKeon | Secured Storage | 09/28/22 16:03 | Return to Storage |

# SGS Internal Chain of Custody

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Received:** 09/24/22



| Sample.Bottle Number | Transfer FROM | Transfer TO | Date/Time | Reason |
|---|---|---|---|---|
| JD52507-7.2 | Secured Storage | Kyle McKeon | 09/27/22 15:47 | Retrieve from Storage |
| JD52507-7.2 | Kyle McKeon | GCMS2V | 09/27/22 15:47 | Load on Instrument |
| JD52507-7.2 | GCMS2V | Kyle McKeon | 09/28/22 16:03 | Unload from Instrument |
| JD52507-7.2 | Kyle McKeon | Secured Storage | 09/28/22 16:03 | Return to Storage |
| JD52507-8.1 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-8.1 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-8.1 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-8.1 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-8.2 | Nicholas Weigand | GCMS1A | 09/30/22 18:20 | Load on Instrument |
| JD52507-9.1 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-9.1 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-9.1 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-9.1 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-9.2 | Nicholas Weigand | GCMS1A | 09/30/22 18:20 | Load on Instrument |
| JD52507-10.3 | Nicholas Weigand | GCMS1A | 09/30/22 18:20 | Load on Instrument |
| JD52507-10.7 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-10.7 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-10.7 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-10.7 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-11.2 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-11.2 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-11.2 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-11.2 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-12.1 | Secured Storage | Nicole Hornlien | 09/30/22 16:21 | Retrieve from Storage |
| JD52507-12.1 | Nicole Hornlien | GCMS2A | 09/30/22 16:21 | Load on Instrument |
| JD52507-12.1 | GCMS2A | Kyle McKeon | 10/04/22 16:33 | Unload from Instrument |
| JD52507-12.1 | Kyle McKeon | Secured Storage | 10/04/22 16:33 | Return to Storage |
| JD52507-12.2 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-12.2 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-12.2 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-12.2 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-13.1 | Secured Storage | Nicole Hornlien | 09/30/22 16:21 | Retrieve from Storage |
| JD52507-13.1 | Nicole Hornlien | GCMS2A | 09/30/22 16:21 | Load on Instrument |

# SGS Internal Chain of Custody

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Received:** 09/24/22



| Sample.Bottle Number | Transfer FROM | Transfer TO | Date/Time | Reason |
|---|---|---|---|---|
| JD52507-13.1 | GCMS2A | Kyle McKeon | 10/04/22 16:33 | Unload from Instrument |
| JD52507-13.1 | Kyle McKeon | Secured Storage | 10/04/22 16:33 | Return to Storage |
| JD52507-13.2 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-13.2 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-13.2 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-13.2 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-14.1 | Nicholas Weigand | GCMS1A | 09/30/22 18:20 | Load on Instrument |
| JD52507-14.2 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-14.2 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-14.2 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-14.2 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-15.1 | Nicholas Weigand | GCMS1A | 09/27/22 16:45 | Load on Instrument |
| JD52507-16.1 | Nicholas Weigand | GCMS1A | 09/27/22 16:45 | Load on Instrument |
| JD52507-17.1 | Nicholas Weigand | GCMS1A | 09/27/22 16:45 | Load on Instrument |
| JD52507-18.1 | Nicholas Weigand | GCMS1A | 09/27/22 16:45 | Load on Instrument |
| JD52507-18.2 | Secured Storage | Taylor Sauter | 09/29/22 11:30 | Retrieve from Storage |
| JD52507-18.2 | Taylor Sauter | GCMS1X | 09/29/22 11:30 | Load on Instrument |
| JD52507-18.2 | GCMS1X | Taylor Sauter | 09/30/22 10:48 | Unload from Instrument |
| JD52507-18.2 | Taylor Sauter | Secured Storage | 09/30/22 10:48 | Return to Storage |
| JD52507-19.1 | Nicholas Weigand | GCMS1A | 09/27/22 16:45 | Load on Instrument |
| JD52507-19.2 | Secured Storage | Taylor Sauter | 09/29/22 11:30 | Retrieve from Storage |
| JD52507-19.2 | Taylor Sauter | GCMS1X | 09/29/22 11:30 | Load on Instrument |
| JD52507-19.2 | GCMS1X | Taylor Sauter | 09/30/22 10:48 | Unload from Instrument |
| JD52507-19.2 | Taylor Sauter | Secured Storage | 09/30/22 10:48 | Return to Storage |
| JD52507-20.1 | Nicholas Weigand | GCMS1A | 09/27/22 16:45 | Load on Instrument |
| JD52507-21.1 | Nicholas Weigand | GCMS1A | 09/27/22 16:45 | Load on Instrument |
| JD52507-22.1 | Secured Storage | Taylor Sauter | 09/29/22 11:30 | Retrieve from Storage |
| JD52507-22.1 | Taylor Sauter | GCMS1X | 09/29/22 11:30 | Load on Instrument |
| JD52507-22.1 | GCMS1X | Taylor Sauter | 09/30/22 10:48 | Unload from Instrument |
| JD52507-22.1 | Taylor Sauter | Secured Storage | 09/30/22 10:48 | Return to Storage |

# SGS Internal Chain of Custody

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Received:** 09/24/22



| Sample.Bottle Number | Transfer FROM | Transfer TO | Date/Time | Reason |
|---|---|---|---|---|
| JD52507-23.1 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-23.1 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-23.1 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-23.1 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-24.1 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-24.1 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-24.1 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-24.1 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-25.1 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-25.1 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-25.1 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-25.1 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-26.1 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-26.1 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-26.1 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-26.1 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-27.2 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-27.2 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-27.2 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-27.2 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-28.1 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-28.1 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-28.1 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-28.1 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-29.2 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-29.2 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-29.2 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-29.2 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-30.1 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-30.1 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-30.1 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-30.1 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-30.2 | Secured Storage | Taylor Sauter | 10/03/22 16:53 | Retrieve from Storage |
| JD52507-30.2 | Taylor Sauter | GCMS2V | 10/03/22 16:53 | Load on Instrument |
| JD52507-30.2 | GCMS2V | Taylor Sauter | 10/07/22 08:57 | Unload from Instrument |
| JD52507-30.2 | Taylor Sauter | Secured Storage | 10/07/22 08:57 | Return to Storage |

# SGS Internal Chain of Custody

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Received:** 09/24/22



| Sample.Bottle Number | Transfer FROM | Transfer TO | Date/Time | Reason |
|---|---|---|---|---|
| JD52507-31.1 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-31.1 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-31.1 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-31.1 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-31.2 | Secured Storage | Taylor Sauter | 10/03/22 16:53 | Retrieve from Storage |
| JD52507-31.2 | Taylor Sauter | GCMS2V | 10/03/22 16:53 | Load on Instrument |
| JD52507-31.2 | GCMS2V | Taylor Sauter | 10/07/22 08:57 | Unload from Instrument |
| JD52507-31.2 | Taylor Sauter | Secured Storage | 10/07/22 08:57 | Return to Storage |
| JD52507-32.1 | Secured Storage | Taylor Sauter | 10/03/22 16:53 | Retrieve from Storage |
| JD52507-32.1 | Taylor Sauter | GCMS2V | 10/03/22 16:53 | Load on Instrument |
| JD52507-32.1 | GCMS2V | Taylor Sauter | 10/07/22 08:57 | Unload from Instrument |
| JD52507-32.1 | Taylor Sauter | Secured Storage | 10/07/22 08:57 | Return to Storage |
| JD52507-32.2 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-32.2 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-32.2 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-32.2 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-33.1 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-33.1 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-33.1 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-33.1 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-34.1 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-34.1 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-34.1 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |
| JD52507-34.1 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-34.2 | Secured Storage | Taylor Sauter | 10/03/22 16:53 | Retrieve from Storage |
| JD52507-34.2 | Taylor Sauter | GCMS2V | 10/03/22 16:53 | Load on Instrument |
| JD52507-34.2 | GCMS2V | Taylor Sauter | 10/07/22 08:57 | Unload from Instrument |
| JD52507-34.2 | Taylor Sauter | Secured Storage | 10/07/22 08:57 | Return to Storage |
| JD52507-35.1 | Secured Storage | Taylor Sauter | 10/03/22 16:53 | Retrieve from Storage |
| JD52507-35.1 | Taylor Sauter | GCMS2V | 10/03/22 16:53 | Load on Instrument |
| JD52507-35.1 | GCMS2V | Taylor Sauter | 10/07/22 08:57 | Unload from Instrument |
| JD52507-35.1 | Taylor Sauter | Secured Storage | 10/07/22 08:57 | Return to Storage |
| JD52507-36.2 | Secured Storage | Kyle McKeon | 09/29/22 17:03 | Retrieve from Storage |
| JD52507-36.2 | Kyle McKeon | GCMS2V | 09/29/22 17:03 | Load on Instrument |
| JD52507-36.2 | GCMS2V | Kyle McKeon | 09/30/22 17:03 | Unload from Instrument |

# SGS Internal Chain of Custody

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY
**Received:** 09/24/22

| Sample.Bottle Number | Transfer FROM | Transfer TO | Date/Time | Reason |
|---|---|---|---|---|
| JD52507-36.2 | Kyle McKeon | Secured Storage | 09/30/22 17:03 | Return to Storage |
| JD52507-37.1 | Secured Storage | Taylor Sauter | 10/03/22 16:53 | Retrieve from Storage |
| JD52507-37.1 | Taylor Sauter | GCMS2V | 10/03/22 16:53 | Load on Instrument |
| JD52507-37.1 | GCMS2V | Taylor Sauter | 10/07/22 08:57 | Unload from Instrument |
| JD52507-37.1 | Taylor Sauter | Secured Storage | 10/07/22 08:57 | Return to Storage |
| JD52507-37.2 | Secured Storage | Nicole Hornlien | 10/04/22 15:57 | Retrieve from Storage |
| JD52507-37.2 | Nicole Hornlien | GCMSL | 10/04/22 15:57 | Load on Instrument |
| JD52507-37.2 | GCMSL | Nicole Hornlien | 10/05/22 08:43 | Unload from Instrument |
| JD52507-37.2 | Nicole Hornlien | Secured Storage | 10/05/22 08:43 | Return to Storage |

## MS Volatiles

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### QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

# Method Blank Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1A9698-MB | 1A226434.D | 1 | 09/27/22 | NW | n/a | n/a | V1A9698 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-15, JD52507-16, JD52507-17, JD52507-18, JD52507-20, JD52507-21

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |

# Method Blank Summary

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1A9698-MB | 1A226434.D | 1 | 09/27/22 | NW | n/a | n/a | V1A9698 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-15, JD52507-16, JD52507-17, JD52507-18, JD52507-20, JD52507-21

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | 80-120% |
| 2037-26-5 | Toluene-D8 | 101% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Method Blank Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2V3773-MB | 2V92884.D | 1 | 09/27/22 | KM | n/a | n/a | V2V3773 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-1, JD52507-2, JD52507-3, JD52507-4, JD52507-5, JD52507-6, JD52507-7

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |

# Method Blank Summary

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2V3773-MB | 2V92884.D | 1 | 09/27/22 | KM | n/a | n/a | V2V3773 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-1, JD52507-2, JD52507-3, JD52507-4, JD52507-5, JD52507-6, JD52507-7

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | 80-120% |
| 2037-26-5 | Toluene-D8 | 105% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Method Blank Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2A9581-MB | 2A220394.D | 1 | 09/29/22 | NH | n/a | n/a | V2A9581 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-3

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |

# Method Blank Summary

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2A9581-MB | 2A220394.D | 1 | 09/29/22 | NH | n/a | n/a | V2A9581 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-3

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 104% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 86% | 80-120% |
| 2037-26-5 | Toluene-D8 | 98% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 113% | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | system artifact | 3.63 | 6.6 | ug/l | J |
| | Total TIC, Volatile | | 0 | ug/l | |

# Method Blank Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1X8637-MB | 1X200583.D | 1 | 09/29/22 | TS | n/a | n/a | V1X8637 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-18, JD52507-19, JD52507-22

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |

# Method Blank Summary

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1X8637-MB | 1X200583.D | 1 | 09/29/22 | TS | n/a | n/a | V1X8637 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-18, JD52507-19, JD52507-22

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 95% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Method Blank Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2V3777-MB | 2V93004.D | 1 | 09/29/22 | KM | n/a | n/a | V2V3777 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-9, JD52507-11, JD52507-12, JD52507-13, JD52507-14, JD52507-23, JD52507-24, JD52507-25, JD52507-26, JD52507-27, JD52507-28, JD52507-29, JD52507-30, JD52507-31, JD52507-33, JD52507-36

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |

# Method Blank Summary

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2V3777-MB | 2V93004.D | 1 | 09/29/22 | KM | n/a | n/a | V2V3777 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-9, JD52507-11, JD52507-12, JD52507-13, JD52507-14, JD52507-23, JD52507-24, JD52507-25, JD52507-26, JD52507-27, JD52507-28, JD52507-29, JD52507-30, JD52507-31, JD52507-33, JD52507-36

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | 80-120% |
| 2037-26-5 | Toluene-D8 | 101% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| 7446-09-5 | Sulfur dioxide | 1.35 | 5.6 | ug/l | JN |
| | Total TIC, Volatile | | 5.6 | ug/l | J |

# Method Blank Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2A9583-MB | 2A220442.D | 1 | 09/30/22 | NH | n/a | n/a | V2A9583 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-12, JD52507-13

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 110% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 83% | 80-120% |
| 2037-26-5 | Toluene-D8 | 92% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 110% | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | system artifact | 3.62 | 7.5 | ug/l | J |
| | Total TIC, Volatile | | 0 | ug/l | |

# Method Blank Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1A9705-MB | 1A226609.D | 1 | 09/30/22 | NW | n/a | n/a | V1A9705 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-8, JD52507-10

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |

# Method Blank Summary

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1A9705-MB | 1A226609.D | 1 | 09/30/22 | NW | n/a | n/a | V1A9705 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-8, JD52507-10

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102% | 80-120% |
| 2037-26-5 | Toluene-D8 | 103% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Method Blank Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2V3782-MB | 2V93128.D | 1 | 10/03/22 | TS | n/a | n/a | V2V3782 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-30, JD52507-31, JD52507-32, JD52507-34, JD52507-35

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |

# Method Blank Summary

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2V3782-MB | 2V93128.D | 1 | 10/03/22 | TS | n/a | n/a | V2V3782 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-30, JD52507-31, JD52507-32, JD52507-34, JD52507-35

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 104% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | 80-120% |
| 2037-26-5 | Toluene-D8 | 105% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Method Blank Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VL10519-MB | L347834.D | 1 | 10/04/22 | NH | n/a | n/a | VL10519 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-37

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 10 | 3.1 | ug/l | |
| 71-43-2 | Benzene | ND | 0.50 | 0.43 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.45 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.63 | ug/l | |
| 74-83-9 | Bromomethane | ND | 2.0 | 1.6 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 10 | 2.7 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 0.46 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.55 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.56 | ug/l | |
| 75-00-3 | Chloroethane | ND | 1.0 | 0.73 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | 1.0 | 0.76 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 0.78 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 0.53 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.56 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.48 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.53 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.54 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.51 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.56 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.57 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.60 | ug/l | |
| 75-35-4 | 1,1-Dichloroethene | ND | 1.0 | 0.59 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 1.0 | 0.51 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 1.0 | 0.54 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.51 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.47 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.43 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.60 | ug/l | |
| 76-13-1 | Freon 113 | ND | 5.0 | 0.58 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.65 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 5.0 | 0.80 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 0.60 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.51 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | 5.0 | 1.9 | ug/l | |

# Method Blank Summary

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VL10519-MB | L347834.D | 1 | 10/04/22 | NH | n/a | n/a | VL10519 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-37

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | 2.0 | 1.0 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.49 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.65 | ug/l | |
| 127-18-4 | Tetrachloroethene | ND | 1.0 | 0.56 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.49 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.54 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.53 | ug/l | |
| 79-01-6 | Trichloroethene | ND | 1.0 | 0.53 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.40 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.52 | ug/l | |
| 1330-20-7 | Xylene (total) | ND | 1.0 | 0.59 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% | 80-120% |
| 2037-26-5 | Toluene-D8 | 98% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 89% | 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---|---|---|---|---|---|
| | Total TIC, Volatile | | 0 | ug/l | |

# Blank Spike Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1A9698-BS | 1A226432.D | 1 | 09/27/22 | NW | n/a | n/a | V1A9698 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-15, JD52507-16, JD52507-17, JD52507-18, JD52507-20, JD52507-21

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 200 | 194 | 97 | 27-175 |
| 71-43-2 | Benzene | 50 | 46.6 | 93 | 80-115 |
| 75-27-4 | Bromodichloromethane | 50 | 47.3 | 95 | 82-119 |
| 75-25-2 | Bromoform | 50 | 50.7 | 101 | 77-135 |
| 74-83-9 | Bromomethane | 50 | 44.5 | 89 | 40-162 |
| 78-93-3 | 2-Butanone (MEK) | 200 | 190 | 95 | 61-150 |
| 75-15-0 | Carbon disulfide | 50 | 41.0 | 82 | 64-130 |
| 56-23-5 | Carbon tetrachloride | 50 | 49.7 | 99 | 75-127 |
| 108-90-7 | Chlorobenzene | 50 | 47.7 | 95 | 80-115 |
| 75-00-3 | Chloroethane | 50 | 39.8 | 80 | 56-144 |
| 67-66-3 | Chloroform | 50 | 44.9 | 90 | 75-116 |
| 74-87-3 | Chloromethane | 50 | 38.8 | 78 | 41-153 |
| 110-82-7 | Cyclohexane | 50 | 42.9 | 86 | 66-129 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 52.0 | 104 | 69-134 |
| 124-48-1 | Dibromochloromethane | 50 | 48.4 | 97 | 81-123 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 48.4 | 97 | 67-138 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 51.4 | 103 | 81-117 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 51.4 | 103 | 81-115 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 48.7 | 97 | 80-114 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 38.7 | 77 | 43-152 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 45.4 | 91 | 75-125 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 46.8 | 94 | 73-117 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 43.9 | 88 | 70-124 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 48.5 | 97 | 80-120 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 46.3 | 93 | 77-121 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 46.4 | 93 | 79-121 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 49.9 | 100 | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 53.8 | 108 | 83-122 |
| 100-41-4 | Ethylbenzene | 50 | 47.1 | 94 | 78-116 |
| 76-13-1 | Freon 113 | 50 | 45.2 | 90 | 68-134 |
| 591-78-6 | 2-Hexanone | 200 | 187 | 94 | 66-136 |
| 98-82-8 | Isopropylbenzene | 50 | 50.6 | 101 | 78-121 |
| 79-20-9 | Methyl Acetate | 50 | 43.2 | 86 | 60-143 |
| 108-87-2 | Methylcyclohexane | 50 | 48.8 | 98 | 71-123 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 45.6 | 91 | 76-123 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 200 | 189 | 95 | 73-134 |

* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1A9698-BS | 1A226432.D | 1 | 09/27/22 | NW | n/a | n/a | V1A9698 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-15, JD52507-16, JD52507-17, JD52507-18, JD52507-20, JD52507-21

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | 50 | 43.1 | 86 | 73-123 |
| 100-42-5 | Styrene | 50 | 52.9 | 106 | 81-125 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 45.4 | 91 | 73-126 |
| 127-18-4 | Tetrachloroethene | 50 | 50.4 | 101 | 73-119 |
| 108-88-3 | Toluene | 50 | 47.8 | 96 | 79-116 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 55.4 | 111 | 68-135 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 47.8 | 96 | 76-124 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 47.2 | 94 | 83-117 |
| 79-01-6 | Trichloroethene | 50 | 49.7 | 99 | 80-118 |
| 75-69-4 | Trichlorofluoromethane | 50 | 45.4 | 91 | 67-134 |
| 75-01-4 | Vinyl chloride | 50 | 40.6 | 81 | 52-146 |
| 1330-20-7 | Xylene (total) | 150 | 149 | 99 | 80-119 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | 80-120% |
| 2037-26-5 | Toluene-D8 | 95% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | 82-114% |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2V3773-BS | 2V92882.D | 1 | 09/27/22 | KM | n/a | n/a | V2V3773 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-1, JD52507-2, JD52507-3, JD52507-4, JD52507-5, JD52507-6, JD52507-7

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 200 | 215 | 108 | 27-175 |
| 71-43-2 | Benzene | 50 | 47.3 | 95 | 80-115 |
| 75-27-4 | Bromodichloromethane | 50 | 46.1 | 92 | 82-119 |
| 75-25-2 | Bromoform | 50 | 48.2 | 96 | 77-135 |
| 74-83-9 | Bromomethane | 50 | 78.7 | 157 | 40-162 |
| 78-93-3 | 2-Butanone (MEK) | 200 | 228 | 114 | 61-150 |
| 75-15-0 | Carbon disulfide | 50 | 44.1 | 88 | 64-130 |
| 56-23-5 | Carbon tetrachloride | 50 | 48.3 | 97 | 75-127 |
| 108-90-7 | Chlorobenzene | 50 | 45.5 | 91 | 80-115 |
| 75-00-3 | Chloroethane | 50 | 66.9 | 134 | 56-144 |
| 67-66-3 | Chloroform | 50 | 46.3 | 93 | 75-116 |
| 74-87-3 | Chloromethane | 50 | 47.9 | 96 | 41-153 |
| 110-82-7 | Cyclohexane | 50 | 46.7 | 93 | 66-129 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 49.8 | 100 | 69-134 |
| 124-48-1 | Dibromochloromethane | 50 | 47.2 | 94 | 81-123 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 48.0 | 96 | 67-138 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 46.2 | 92 | 81-117 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 45.5 | 91 | 81-115 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 44.2 | 88 | 80-114 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 48.0 | 96 | 43-152 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 50.9 | 102 | 75-125 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 45.9 | 92 | 73-117 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 49.8 | 100 | 70-124 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 52.0 | 104 | 80-120 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 49.9 | 100 | 77-121 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 51.1 | 102 | 79-121 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 48.2 | 96 | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 48.4 | 97 | 83-122 |
| 100-41-4 | Ethylbenzene | 50 | 47.7 | 95 | 78-116 |
| 76-13-1 | Freon 113 | 50 | 46.6 | 93 | 68-134 |
| 591-78-6 | 2-Hexanone | 200 | 216 | 108 | 66-136 |
| 98-82-8 | Isopropylbenzene | 50 | 46.4 | 93 | 78-121 |
| 79-20-9 | Methyl Acetate | 50 | 50.7 | 101 | 60-143 |
| 108-87-2 | Methylcyclohexane | 50 | 47.3 | 95 | 71-123 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 51.0 | 102 | 76-123 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 200 | 223 | 112 | 73-134 |

* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2V3773-BS | 2V92882.D | 1 | 09/27/22 | KM | n/a | n/a | V2V3773 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-1, JD52507-2, JD52507-3, JD52507-4, JD52507-5, JD52507-6, JD52507-7

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | 50 | 46.0 | 92 | 73-123 |
| 100-42-5 | Styrene | 50 | 47.8 | 96 | 81-125 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 47.3 | 95 | 73-126 |
| 127-18-4 | Tetrachloroethene | 50 | 45.2 | 90 | 73-119 |
| 108-88-3 | Toluene | 50 | 44.8 | 90 | 79-116 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 48.8 | 98 | 68-135 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 47.5 | 95 | 76-124 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 49.0 | 98 | 83-117 |
| 79-01-6 | Trichloroethene | 50 | 46.0 | 92 | 80-118 |
| 75-69-4 | Trichlorofluoromethane | 50 | 86.7 | 173* [a] | 67-134 |
| 75-01-4 | Vinyl chloride | 50 | 54.1 | 108 | 52-146 |
| 1330-20-7 | Xylene (total) | 150 | 141 | 94 | 80-119 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 103% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102% | 80-120% |
| 2037-26-5 | Toluene-D8 | 98% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 94% | 82-114% |

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2A9581-BS | 2A220392.D | 1 | 09/29/22 | NH | n/a | n/a | V2A9581 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-3

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 200 | 275 | 138 | 27-175 |
| 71-43-2 | Benzene | 50 | 49.3 | 99 | 80-115 |
| 75-27-4 | Bromodichloromethane | 50 | 43.6 | 87 | 82-119 |
| 75-25-2 | Bromoform | 50 | 43.0 | 86 | 77-135 |
| 74-83-9 | Bromomethane | 50 | 46.2 | 92 | 40-162 |
| 78-93-3 | 2-Butanone (MEK) | 200 | 244 | 122 | 61-150 |
| 75-15-0 | Carbon disulfide | 50 | 56.8 | 114 | 64-130 |
| 56-23-5 | Carbon tetrachloride | 50 | 47.3 | 95 | 75-127 |
| 108-90-7 | Chlorobenzene | 50 | 46.7 | 93 | 80-115 |
| 75-00-3 | Chloroethane | 50 | 53.4 | 107 | 56-144 |
| 67-66-3 | Chloroform | 50 | 47.5 | 95 | 75-116 |
| 74-87-3 | Chloromethane | 50 | 41.2 | 82 | 41-153 |
| 110-82-7 | Cyclohexane | 50 | 51.5 | 103 | 66-129 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 39.8 | 80 | 69-134 |
| 124-48-1 | Dibromochloromethane | 50 | 43.2 | 86 | 81-123 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 44.3 | 89 | 67-138 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 44.0 | 88 | 81-117 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 44.6 | 89 | 81-115 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 42.6 | 85 | 80-114 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 43.9 | 88 | 43-152 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 52.5 | 105 | 75-125 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 42.6 | 85 | 73-117 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 52.0 | 104 | 70-124 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 51.4 | 103 | 77-121 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 47.8 | 96 | 79-121 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 48.0 | 96 | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 46.6 | 93 | 83-122 |
| 100-41-4 | Ethylbenzene | 50 | 45.6 | 91 | 78-116 |
| 76-13-1 | Freon 113 | 50 | 51.4 | 103 | 68-134 |
| 591-78-6 | 2-Hexanone | 200 | 191 | 96 | 66-136 |
| 98-82-8 | Isopropylbenzene | 50 | 43.6 | 87 | 78-121 |
| 79-20-9 | Methyl Acetate | 50 | 47.4 | 95 | 60-143 |
| 108-87-2 | Methylcyclohexane | 50 | 45.5 | 91 | 71-123 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 50.3 | 101 | 76-123 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 200 | 173 | 87 | 73-134 |
| 75-09-2 | Methylene chloride | 50 | 51.7 | 103 | 73-123 |

* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2A9581-BS | 2A220392.D | 1 | 09/29/22 | NH | n/a | n/a | V2A9581 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-3

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 100-42-5 | Styrene | 50 | 44.1 | 88 | 81-125 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 43.8 | 88 | 73-126 |
| 127-18-4 | Tetrachloroethene | 50 | 45.9 | 92 | 73-119 |
| 108-88-3 | Toluene | 50 | 47.6 | 95 | 79-116 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 45.0 | 90 | 68-135 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 49.0 | 98 | 76-124 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 45.0 | 90 | 83-117 |
| 79-01-6 | Trichloroethene | 50 | 46.2 | 92 | 80-118 |
| 75-69-4 | Trichlorofluoromethane | 50 | 45.9 | 92 | 67-134 |
| 1330-20-7 | Xylene (total) | 150 | 132 | 88 | 80-119 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 105% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 84% | 80-120% |
| 2037-26-5 | Toluene-D8 | 101% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 110% | 82-114% |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1X8637-BS | 1X200581.D | 1 | 09/29/22 | TS | n/a | n/a | V1X8637 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-18, JD52507-19, JD52507-22

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 200 | 176 | 88 | 27-175 |
| 71-43-2 | Benzene | 50 | 43.9 | 88 | 80-115 |
| 75-27-4 | Bromodichloromethane | 50 | 47.8 | 96 | 82-119 |
| 75-25-2 | Bromoform | 50 | 54.4 | 109 | 77-135 |
| 74-83-9 | Bromomethane | 50 | 50.1 | 100 | 40-162 |
| 78-93-3 | 2-Butanone (MEK) | 200 | 192 | 96 | 61-150 |
| 75-15-0 | Carbon disulfide | 50 | 47.1 | 94 | 64-130 |
| 56-23-5 | Carbon tetrachloride | 50 | 45.5 | 91 | 75-127 |
| 108-90-7 | Chlorobenzene | 50 | 45.4 | 91 | 80-115 |
| 75-00-3 | Chloroethane | 50 | 35.5 | 71 | 56-144 |
| 67-66-3 | Chloroform | 50 | 41.9 | 84 | 75-116 |
| 74-87-3 | Chloromethane | 50 | 39.1 | 78 | 41-153 |
| 110-82-7 | Cyclohexane | 50 | 39.5 | 79 | 66-129 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 52.6 | 105 | 69-134 |
| 124-48-1 | Dibromochloromethane | 50 | 50.5 | 101 | 81-123 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 49.1 | 98 | 67-138 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 47.3 | 95 | 81-117 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 46.3 | 93 | 81-115 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 46.0 | 92 | 80-114 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 40.3 | 81 | 43-152 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 43.5 | 87 | 75-125 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 43.1 | 86 | 73-117 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 46.0 | 92 | 70-124 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 43.6 | 87 | 80-120 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 44.5 | 89 | 77-121 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 46.7 | 93 | 79-121 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 50.6 | 101 | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 51.7 | 103 | 83-122 |
| 100-41-4 | Ethylbenzene | 50 | 44.9 | 90 | 78-116 |
| 76-13-1 | Freon 113 | 50 | 45.6 | 91 | 68-134 |
| 591-78-6 | 2-Hexanone | 200 | 198 | 99 | 66-136 |
| 98-82-8 | Isopropylbenzene | 50 | 46.3 | 93 | 78-121 |
| 79-20-9 | Methyl Acetate | 50 | 45.3 | 91 | 60-143 |
| 108-87-2 | Methylcyclohexane | 50 | 48.2 | 96 | 71-123 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 45.2 | 90 | 76-123 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 200 | 202 | 101 | 73-134 |

* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1X8637-BS | 1X200581.D | 1 | 09/29/22 | TS | n/a | n/a | V1X8637 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-18, JD52507-19, JD52507-22

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | 50 | 43.7 | 87 | 73-123 |
| 100-42-5 | Styrene | 50 | 45.6 | 91 | 81-125 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 51.4 | 103 | 73-126 |
| 127-18-4 | Tetrachloroethene | 50 | 47.7 | 95 | 73-119 |
| 108-88-3 | Toluene | 50 | 45.9 | 92 | 79-116 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 48.8 | 98 | 68-135 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 43.8 | 88 | 76-124 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 47.1 | 94 | 83-117 |
| 79-01-6 | Trichloroethene | 50 | 45.7 | 91 | 80-118 |
| 75-69-4 | Trichlorofluoromethane | 50 | 42.3 | 85 | 67-134 |
| 75-01-4 | Vinyl chloride | 50 | 39.4 | 79 | 52-146 |
| 1330-20-7 | Xylene (total) | 150 | 135 | 90 | 80-119 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 95% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96% | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 82-114% |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2V3777-BS | 2V93002.D | 1 | 09/29/22 | KM | n/a | n/a | V2V3777 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-9, JD52507-11, JD52507-12, JD52507-13, JD52507-14, JD52507-23, JD52507-24, JD52507-25, JD52507-26, JD52507-27, JD52507-28, JD52507-29, JD52507-30, JD52507-31, JD52507-33, JD52507-36

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 200 | 278 | 139 | 27-175 |
| 71-43-2 | Benzene | 50 | 48.6 | 97 | 80-115 |
| 75-27-4 | Bromodichloromethane | 50 | 48.1 | 96 | 82-119 |
| 75-25-2 | Bromoform | 50 | 49.3 | 99 | 77-135 |
| 74-83-9 | Bromomethane | 50 | 63.1 | 126 | 40-162 |
| 78-93-3 | 2-Butanone (MEK) | 200 | 243 | 122 | 61-150 |
| 75-15-0 | Carbon disulfide | 50 | 43.1 | 86 | 64-130 |
| 56-23-5 | Carbon tetrachloride | 50 | 49.4 | 99 | 75-127 |
| 108-90-7 | Chlorobenzene | 50 | 47.7 | 95 | 80-115 |
| 75-00-3 | Chloroethane | 50 | 91.6 | 183* [a] | 56-144 |
| 67-66-3 | Chloroform | 50 | 47.1 | 94 | 75-116 |
| 74-87-3 | Chloromethane | 50 | 41.5 | 83 | 41-153 |
| 110-82-7 | Cyclohexane | 50 | 42.6 | 85 | 66-129 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 52.9 | 106 | 69-134 |
| 124-48-1 | Dibromochloromethane | 50 | 49.1 | 98 | 81-123 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 49.6 | 99 | 67-138 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 47.2 | 94 | 81-117 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 47.2 | 94 | 81-115 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 46.2 | 92 | 80-114 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 42.7 | 85 | 43-152 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 51.9 | 104 | 75-125 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 47.6 | 95 | 73-117 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 50.0 | 100 | 70-124 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 53.7 | 107 | 80-120 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 49.9 | 100 | 77-121 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 52.8 | 106 | 79-121 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 50.1 | 100 | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 50.3 | 101 | 83-122 |
| 100-41-4 | Ethylbenzene | 50 | 50.0 | 100 | 78-116 |
| 76-13-1 | Freon 113 | 50 | 47.1 | 94 | 68-134 |
| 591-78-6 | 2-Hexanone | 200 | 229 | 115 | 66-136 |
| 98-82-8 | Isopropylbenzene | 50 | 48.3 | 97 | 78-121 |
| 79-20-9 | Methyl Acetate | 50 | 52.0 | 104 | 60-143 |
| 108-87-2 | Methylcyclohexane | 50 | 47.5 | 95 | 71-123 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 51.9 | 104 | 76-123 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 200 | 231 | 116 | 73-134 |

* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2V3777-BS | 2V93002.D | 1 | 09/29/22 | KM | n/a | n/a | V2V3777 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-9, JD52507-11, JD52507-12, JD52507-13, JD52507-14, JD52507-23, JD52507-24, JD52507-25, JD52507-26, JD52507-27, JD52507-28, JD52507-29, JD52507-30, JD52507-31, JD52507-33, JD52507-36

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | 50 | 47.0 | 94 | 73-123 |
| 100-42-5 | Styrene | 50 | 49.3 | 99 | 81-125 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 48.3 | 97 | 73-126 |
| 127-18-4 | Tetrachloroethene | 50 | 47.7 | 95 | 73-119 |
| 108-88-3 | Toluene | 50 | 46.9 | 94 | 79-116 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 50.5 | 101 | 68-135 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 48.4 | 97 | 76-124 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 50.6 | 101 | 83-117 |
| 79-01-6 | Trichloroethene | 50 | 49.2 | 98 | 80-118 |
| 75-69-4 | Trichlorofluoromethane | 50 | 81.7 | 163* [a] | 67-134 |
| 75-01-4 | Vinyl chloride | 50 | 48.3 | 97 | 52-146 |
| 1330-20-7 | Xylene (total) | 150 | 146 | 97 | 80-119 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | 82-114% |

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2A9583-BS | 2A220440.D | 1 | 09/30/22 | NH | n/a | n/a | V2A9583 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-12, JD52507-13

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 56.4 | 113 | 80-120 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 107% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 81% | 80-120% |
| 2037-26-5 | Toluene-D8 | 94% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 106% | 82-114% |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1A9705-BS | 1A226607.D | 1 | 09/30/22 | NW | n/a | n/a | V1A9705 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-8, JD52507-10

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 200 | 190 | 95 | 27-175 |
| 71-43-2 | Benzene | 50 | 49.0 | 98 | 80-115 |
| 75-27-4 | Bromodichloromethane | 50 | 49.5 | 99 | 82-119 |
| 75-25-2 | Bromoform | 50 | 51.6 | 103 | 77-135 |
| 74-83-9 | Bromomethane | 50 | 44.8 | 90 | 40-162 |
| 78-93-3 | 2-Butanone (MEK) | 200 | 196 | 98 | 61-150 |
| 75-15-0 | Carbon disulfide | 50 | 38.5 | 77 | 64-130 |
| 56-23-5 | Carbon tetrachloride | 50 | 51.4 | 103 | 75-127 |
| 108-90-7 | Chlorobenzene | 50 | 49.1 | 98 | 80-115 |
| 75-00-3 | Chloroethane | 50 | 46.1 | 92 | 56-144 |
| 67-66-3 | Chloroform | 50 | 47.7 | 95 | 75-116 |
| 74-87-3 | Chloromethane | 50 | 44.1 | 88 | 41-153 |
| 110-82-7 | Cyclohexane | 50 | 48.3 | 97 | 66-129 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 52.3 | 105 | 69-134 |
| 124-48-1 | Dibromochloromethane | 50 | 49.6 | 99 | 81-123 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 50.4 | 101 | 67-138 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 51.6 | 103 | 81-117 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 51.8 | 104 | 81-115 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 47.6 | 95 | 80-114 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 39.8 | 80 | 43-152 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 48.4 | 97 | 75-125 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 48.4 | 97 | 73-117 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 43.7 | 87 | 70-124 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 50.6 | 101 | 80-120 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 48.7 | 97 | 77-121 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 48.5 | 97 | 79-121 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 52.4 | 105 | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 56.1 | 112 | 83-122 |
| 100-41-4 | Ethylbenzene | 50 | 47.2 | 94 | 78-116 |
| 76-13-1 | Freon 113 | 50 | 45.5 | 91 | 68-134 |
| 591-78-6 | 2-Hexanone | 200 | 201 | 101 | 66-136 |
| 98-82-8 | Isopropylbenzene | 50 | 47.6 | 95 | 78-121 |
| 79-20-9 | Methyl Acetate | 50 | 46.5 | 93 | 60-143 |
| 108-87-2 | Methylcyclohexane | 50 | 42.8 | 86 | 71-123 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 48.1 | 96 | 76-123 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 200 | 201 | 101 | 73-134 |

* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V1A9705-BS | 1A226607.D | 1 | 09/30/22 | NW | n/a | n/a | V1A9705 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-8, JD52507-10

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | 50 | 45.2 | 90 | 73-123 |
| 100-42-5 | Styrene | 50 | 53.6 | 107 | 81-125 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 49.6 | 99 | 73-126 |
| 127-18-4 | Tetrachloroethene | 50 | 49.6 | 99 | 73-119 |
| 108-88-3 | Toluene | 50 | 50.3 | 101 | 79-116 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 50.9 | 102 | 68-135 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 50.1 | 100 | 76-124 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 49.7 | 99 | 83-117 |
| 79-01-6 | Trichloroethene | 50 | 50.5 | 101 | 80-118 |
| 75-69-4 | Trichlorofluoromethane | 50 | 48.7 | 97 | 67-134 |
| 75-01-4 | Vinyl chloride | 50 | 45.0 | 90 | 52-146 |
| 1330-20-7 | Xylene (total) | 150 | 149 | 99 | 80-119 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | 80-120% |
| 2037-26-5 | Toluene-D8 | 98% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 82-114% |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2V3782-BS | 2V93126.D | 1 | 10/03/22 | TS | n/a | n/a | V2V3782 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-30, JD52507-31, JD52507-32, JD52507-34, JD52507-35

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 200 | 239 | 120 | 27-175 |
| 71-43-2 | Benzene | 50 | 51.8 | 104 | 80-115 |
| 75-27-4 | Bromodichloromethane | 50 | 51.3 | 103 | 82-119 |
| 75-25-2 | Bromoform | 50 | 50.8 | 102 | 77-135 |
| 74-83-9 | Bromomethane | 50 | 86.5 | 173* [a] | 40-162 |
| 78-93-3 | 2-Butanone (MEK) | 200 | 256 | 128 | 61-150 |
| 75-15-0 | Carbon disulfide | 50 | 42.0 | 84 | 64-130 |
| 56-23-5 | Carbon tetrachloride | 50 | 52.2 | 104 | 75-127 |
| 108-90-7 | Chlorobenzene | 50 | 49.9 | 100 | 80-115 |
| 75-00-3 | Chloroethane | 50 | 99.4 | 199* [a] | 56-144 |
| 67-66-3 | Chloroform | 50 | 51.2 | 102 | 75-116 |
| 74-87-3 | Chloromethane | 50 | 59.4 | 119 | 41-153 |
| 110-82-7 | Cyclohexane | 50 | 51.8 | 104 | 66-129 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 53.5 | 107 | 69-134 |
| 124-48-1 | Dibromochloromethane | 50 | 50.9 | 102 | 81-123 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 53.4 | 107 | 67-138 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 52.4 | 105 | 81-117 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 51.3 | 103 | 81-115 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 50.9 | 102 | 80-114 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 49.9 | 100 | 43-152 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 57.7 | 115 | 75-125 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 50.8 | 102 | 73-117 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 51.3 | 103 | 70-124 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 57.6 | 115 | 80-120 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 54.2 | 108 | 77-121 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 56.2 | 112 | 79-121 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 55.7 | 111 | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 56.7 | 113 | 83-122 |
| 100-41-4 | Ethylbenzene | 50 | 54.4 | 109 | 78-116 |
| 76-13-1 | Freon 113 | 50 | 46.7 | 93 | 68-134 |
| 591-78-6 | 2-Hexanone | 200 | 257 | 129 | 66-136 |
| 98-82-8 | Isopropylbenzene | 50 | 52.6 | 105 | 78-121 |
| 79-20-9 | Methyl Acetate | 50 | 56.5 | 113 | 60-143 |
| 108-87-2 | Methylcyclohexane | 50 | 51.0 | 102 | 71-123 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 57.9 | 116 | 76-123 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 200 | 257 | 129 | 73-134 |

* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| V2V3782-BS | 2V93126.D | 1 | 10/03/22 | TS | n/a | n/a | V2V3782 |



**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-30, JD52507-31, JD52507-32, JD52507-34, JD52507-35

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | 50 | 50.4 | 101 | 73-123 |
| 100-42-5 | Styrene | 50 | 55.6 | 111 | 81-125 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 57.5 | 115 | 73-126 |
| 127-18-4 | Tetrachloroethene | 50 | 49.7 | 99 | 73-119 |
| 108-88-3 | Toluene | 50 | 51.1 | 102 | 79-116 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 51.7 | 103 | 68-135 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 52.2 | 104 | 76-124 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 55.6 | 111 | 83-117 |
| 79-01-6 | Trichloroethene | 50 | 50.3 | 101 | 80-118 |
| 75-69-4 | Trichlorofluoromethane | 50 | 50.8 | 102 | 67-134 |
| 75-01-4 | Vinyl chloride | 50 | 67.5 | 135 | 52-146 |
| 1330-20-7 | Xylene (total) | 150 | 160 | 107 | 80-119 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 107% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104% | 80-120% |
| 2037-26-5 | Toluene-D8 | 102% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 82-114% |

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VL10519-BS | L347831.D | 1 | 10/04/22 | NH | n/a | n/a | VL10519 |
| VL10519-BSD | L347832.D | 1 | 10/04/22 | NH | n/a | n/a | VL10519 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-37

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | BSD ug/l | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 200 | 208 | 104 | 264 | 132 | 24 | 27-175/31 |
| 71-43-2 | Benzene | 50 | 53.2 | 106 | 52.0 | 104 | 2 | 80-115/11 |
| 75-27-4 | Bromodichloromethane | 50 | 49.3 | 99 | 47.2 | 94 | 4 | 82-119/12 |
| 75-25-2 | Bromoform | 50 | 42.9 | 86 | 41.7 | 83 | 3 | 77-135/11 |
| 74-83-9 | Bromomethane | 50 | 43.1 | 86 | 43.5 | 87 | 1 | 40-162/23 |
| 78-93-3 | 2-Butanone (MEK) | 200 | 189 | 95 | 207 | 104 | 9 | 61-150/16 |
| 75-15-0 | Carbon disulfide | 50 | 54.2 | 108 | 52.8 | 106 | 3 | 64-130/13 |
| 56-23-5 | Carbon tetrachloride | 50 | 49.3 | 99 | 48.1 | 96 | 2 | 75-127/11 |
| 108-90-7 | Chlorobenzene | 50 | 51.9 | 104 | 50.3 | 101 | 3 | 80-115/10 |
| 75-00-3 | Chloroethane | 50 | 44.1 | 88 | 42.8 | 86 | 3 | 56-144/14 |
| 67-66-3 | Chloroform | 50 | 48.9 | 98 | 48.6 | 97 | 1 | 75-116/10 |
| 74-87-3 | Chloromethane | 50 | 49.9 | 100 | 48.2 | 96 | 3 | 41-153/14 |
| 110-82-7 | Cyclohexane | 50 | 48.0 | 96 | 47.7 | 95 | 1 | 66-129/11 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 46.9 | 94 | 49.4 | 99 | 5 | 69-134/11 |
| 124-48-1 | Dibromochloromethane | 50 | 45.9 | 92 | 44.0 | 88 | 4 | 81-123/11 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 48.3 | 97 | 46.9 | 94 | 3 | 67-138/11 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 49.7 | 99 | 48.2 | 96 | 3 | 81-117/10 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 53.5 | 107 | 52.0 | 104 | 3 | 81-115/10 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 50.7 | 101 | 49.8 | 100 | 2 | 80-114/10 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 53.8 | 108 | 51.0 | 102 | 5 | 43-152/16 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 53.9 | 108 | 54.3 | 109 | 1 | 75-125/11 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 48.5 | 97 | 47.0 | 94 | 3 | 73-117/10 |
| 75-35-4 | 1,1-Dichloroethene | 50 | 57.7 | 115 | 56.1 | 112 | 3 | 70-124/12 |
| 156-59-2 | cis-1,2-Dichloroethene | 50 | 52.5 | 105 | 51.0 | 102 | 3 | 80-120/10 |
| 156-60-5 | trans-1,2-Dichloroethene | 50 | 55.7 | 111 | 54.3 | 109 | 3 | 77-121/12 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 56.4 | 113 | 55.3 | 111 | 2 | 79-121/10 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 48.0 | 96 | 48.5 | 97 | 1 | 83-123/11 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 42.7 | 85 | 41.3 | 83 | 3 | 83-122/12 |
| 100-41-4 | Ethylbenzene | 50 | 49.9 | 100 | 48.0 | 96 | 4 | 78-116/10 |
| 76-13-1 | Freon 113 | 50 | 62.0 | 124 | 59.4 | 119 | 4 | 68-134/13 |
| 591-78-6 | 2-Hexanone | 200 | 187 | 94 | 189 | 95 | 1 | 66-136/14 |
| 98-82-8 | Isopropylbenzene | 50 | 50.7 | 101 | 49.1 | 98 | 3 | 78-121/11 |
| 79-20-9 | Methyl Acetate | 50 | 49.9 | 100 | 51.8 | 104 | 4 | 60-143/13 |
| 108-87-2 | Methylcyclohexane | 50 | 53.8 | 108 | 51.5 | 103 | 4 | 71-123/12 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 51.4 | 103 | 50.4 | 101 | 2 | 76-123/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 200 | 205 | 103 | 204 | 102 | 0 | 73-134/13 |

* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VL10519-BS | L347831.D | 1 | 10/04/22 | NH | n/a | n/a | VL10519 |
| VL10519-BSD | L347832.D | 1 | 10/04/22 | NH | n/a | n/a | VL10519 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-37

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | BSD ug/l | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | 50 | 54.7 | 109 | 54.3 | 109 | 1 | 73-123/11 |
| 100-42-5 | Styrene | 50 | 49.4 | 99 | 47.9 | 96 | 3 | 81-125/10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 47.6 | 95 | 45.6 | 91 | 4 | 73-126/12 |
| 127-18-4 | Tetrachloroethene | 50 | 53.6 | 107 | 51.3 | 103 | 4 | 73-119/12 |
| 108-88-3 | Toluene | 50 | 51.4 | 103 | 50.0 | 100 | 3 | 79-116/12 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 57.9 | 116 | 56.5 | 113 | 2 | 68-135/12 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 50.4 | 101 | 49.4 | 99 | 2 | 76-124/11 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 53.0 | 106 | 51.7 | 103 | 2 | 83-117/11 |
| 79-01-6 | Trichloroethene | 50 | 54.8 | 110 | 52.3 | 105 | 5 | 80-118/11 |
| 75-69-4 | Trichlorofluoromethane | 50 | 52.8 | 106 | 50.8 | 102 | 4 | 67-134/13 |
| 75-01-4 | Vinyl chloride | 50 | 47.2 | 94 | 44.6 | 89 | 6 | 52-146/15 |
| 1330-20-7 | Xylene (total) | 150 | 146 | 97 | 140 | 93 | 4 | 80-119/10 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 95% | 97% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87% | 84% | 80-120% |
| 2037-26-5 | Toluene-D8 | 90% | 88% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | 96% | 82-114% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52310-3MS | 1A226444.D | 5 | 09/27/22 | NW | n/a | n/a | V1A9698 |
| JD52310-3MSD | 1A226445.D | 5 | 09/27/22 | NW | n/a | n/a | V1A9698 |
| JD52310-3 [a] | 1A226438.D | 5 | 09/27/22 | NW | n/a | n/a | V1A9698 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-15, JD52507-16, JD52507-17, JD52507-18, JD52507-20, JD52507-21

| CAS No. | Compound | JD52310-3 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 434 | | 1000 | 1320 | 89 | 1000 | 1390 | 96 | 5 | 22-134/19 |
| 71-43-2 | Benzene | ND | | 250 | 235 | 94 | 250 | 243 | 97 | 3 | 49-137/12 |
| 75-27-4 | Bromodichloromethane | ND | | 250 | 236 | 94 | 250 | 246 | 98 | 4 | 76-121/12 |
| 75-25-2 | Bromoform | ND | | 250 | 242 | 97 | 250 | 262 | 105 | 8 | 70-133/13 |
| 74-83-9 | Bromomethane | ND | | 250 | 138 | 55 | 250 | 184 | 74 | 29 | 27-164/38 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 1000 | 948 | 95 | 1000 | 1010 | 101 | 6 | 52-137/17 |
| 75-15-0 | Carbon disulfide | 2.9 | J | 250 | 211 | 83 | 250 | 213 | 84 | 1 | 54-136/16 |
| 56-23-5 | Carbon tetrachloride | ND | | 250 | 248 | 99 | 250 | 264 | 106 | 6 | 70-132/13 |
| 108-90-7 | Chlorobenzene | ND | | 250 | 232 | 93 | 250 | 245 | 98 | 5 | 68-123/12 |
| 75-00-3 | Chloroethane | ND | | 250 | 201 | 80 | 250 | 200 | 80 | 0 | 48-152/17 |
| 67-66-3 | Chloroform | ND | | 250 | 224 | 90 | 250 | 232 | 93 | 4 | 68-120/13 |
| 74-87-3 | Chloromethane | 41.0 | | 250 | 222 | 72 | 250 | 217 | 70 | 2 | 35-156/18 |
| 110-82-7 | Cyclohexane | ND | | 250 | 202 | 81 | 250 | 209 | 84 | 3 | 53-146/14 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 250 | 256 | 102 | 250 | 278 | 111 | 8 | 63-134/16 |
| 124-48-1 | Dibromochloromethane | ND | | 250 | 233 | 93 | 250 | 245 | 98 | 5 | 75-122/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 250 | 239 | 96 | 250 | 248 | 99 | 4 | 63-134/12 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 250 | 251 | 100 | 250 | 266 | 106 | 6 | 74-119/12 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 250 | 255 | 102 | 250 | 264 | 106 | 3 | 75-117/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 250 | 241 | 96 | 250 | 249 | 100 | 3 | 72-117/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 250 | 199 | 80 | 250 | 200 | 80 | 1 | 34-163/16 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 250 | 227 | 91 | 250 | 239 | 96 | 5 | 68-129/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 250 | 231 | 92 | 250 | 238 | 95 | 3 | 66-120/13 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 250 | 226 | 90 | 250 | 234 | 94 | 3 | 59-133/15 |
| 156-59-2 | cis-1,2-Dichloroethene | 3.9 | J | 250 | 249 | 98 | 250 | 254 | 100 | 2 | 52-140/12 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 250 | 239 | 96 | 250 | 244 | 98 | 2 | 70-125/13 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 250 | 227 | 91 | 250 | 238 | 95 | 5 | 73-124/12 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 250 | 247 | 99 | 250 | 261 | 104 | 6 | 75-125/13 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 250 | 265 | 106 | 250 | 277 | 111 | 4 | 75-122/12 |
| 100-41-4 | Ethylbenzene | ND | | 250 | 230 | 92 | 250 | 242 | 97 | 5 | 37-144/12 |
| 76-13-1 | Freon 113 | ND | | 250 | 241 | 96 | 250 | 245 | 98 | 2 | 61-142/14 |
| 591-78-6 | 2-Hexanone | ND | | 1000 | 916 | 92 | 1000 | 968 | 97 | 6 | 56-132/16 |
| 98-82-8 | Isopropylbenzene | ND | | 250 | 244 | 98 | 250 | 262 | 105 | 7 | 71-126/13 |
| 79-20-9 | Methyl Acetate | ND | | 250 | 233 | 93 | 250 | 239 | 96 | 3 | 51-139/18 |
| 108-87-2 | Methylcyclohexane | ND | | 250 | 244 | 98 | 250 | 255 | 102 | 4 | 59-137/16 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 250 | 233 | 93 | 250 | 238 | 95 | 2 | 66-124/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 1000 | 945 | 95 | 1000 | 1010 | 101 | 7 | 65-135/14 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52310-3MS | 1A226444.D | 5 | 09/27/22 | NW | n/a | n/a | V1A9698 |
| JD52310-3MSD | 1A226445.D | 5 | 09/27/22 | NW | n/a | n/a | V1A9698 |
| JD52310-3 [a] | 1A226438.D | 5 | 09/27/22 | NW | n/a | n/a | V1A9698 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-15, JD52507-16, JD52507-17, JD52507-18, JD52507-20, JD52507-21

| CAS No. | Compound | JD52310-3 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | | 250 | 218 | 87 | 250 | 228 | 91 | 4 | 66-125/14 |
| 100-42-5 | Styrene | ND | | 250 | 230 | 92 | 250 | 268 | 107 | 15* [b] | 71-133/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 250 | 227 | 91 | 250 | 238 | 95 | 5 | 68-127/14 |
| 127-18-4 | Tetrachloroethene | 771 | | 250 | 763 | -3* [c] | 250 | 798 | 11* [c] | 4 | 58-132/13 |
| 108-88-3 | Toluene | ND | | 250 | 236 | 94 | 250 | 253 | 101 | 7 | 46-139/12 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 250 | 269 | 108 | 250 | 294 | 118 | 9 | 61-137/16 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 250 | 242 | 97 | 250 | 253 | 101 | 4 | 67-132/13 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 250 | 234 | 94 | 250 | 245 | 98 | 5 | 75-120/12 |
| 79-01-6 | Trichloroethene | 12.2 | | 250 | 256 | 98 | 250 | 266 | 102 | 4 | 56-136/12 |
| 75-69-4 | Trichlorofluoromethane | ND | | 250 | 228 | 91 | 250 | 231 | 92 | 1 | 61-145/16 |
| 75-01-4 | Vinyl chloride | ND | | 250 | 194 | 78 | 250 | 197 | 79 | 2 | 41-156/16 |
| 1330-20-7 | Xylene (total) | ND | | 750 | 716 | 95 | 750 | 774 | 103 | 8 | 38-147/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JD52310-3 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 99% | 99% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | 93% | 101% | 80-120% |
| 2037-26-5 | Toluene-D8 | 94% | 95% | 101% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | 95% | 97% | 82-114% |

(a) Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes. Dilution required due to high concentration of target compound.
(b) Analytical precision exceeds in-house control limits.
(c) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52507-6MS | 2V92886.D | 1 | 09/27/22 | KM | n/a | n/a | V2V3773 |
| JD52507-6MSD | 2V92887.D | 1 | 09/27/22 | KM | n/a | n/a | V2V3773 |
| JD52507-6 | 2V92885.D | 1 | 09/27/22 | KM | n/a | n/a | V2V3773 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-1, JD52507-2, JD52507-3, JD52507-4, JD52507-5, JD52507-6, JD52507-7

| CAS No. | Compound | JD52507-6 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 200 | 226 | 113 | 200 | 198 | 99 | 13 | 22-134/19 |
| 71-43-2 | Benzene | 0.67 | | 50 | 48.0 | 95 | 50 | 45.0 | 89 | 6 | 49-137/12 |
| 75-27-4 | Bromodichloromethane | ND | | 50 | 45.0 | 90 | 50 | 43.1 | 86 | 4 | 76-121/12 |
| 75-25-2 | Bromoform | ND | | 50 | 48.4 | 97 | 50 | 43.6 | 87 | 10 | 70-133/13 |
| 74-83-9 | Bromomethane | ND | | 50 | 68.4 | 137 | 50 | 72.4 | 145 | 6 | 27-164/38 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 200 | 220 | 110 | 200 | 205 | 103 | 7 | 52-137/17 |
| 75-15-0 | Carbon disulfide | ND | | 50 | 44.9 | 90 | 50 | 41.8 | 84 | 7 | 54-136/16 |
| 56-23-5 | Carbon tetrachloride | ND | | 50 | 49.2 | 98 | 50 | 45.0 | 90 | 9 | 70-132/13 |
| 108-90-7 | Chlorobenzene | ND | | 50 | 46.7 | 93 | 50 | 42.4 | 85 | 10 | 68-123/12 |
| 75-00-3 | Chloroethane | ND | | 50 | 93.8 | 188* [a] | 50 | 69.2 | 138 | 30* [b] | 48-152/17 |
| 67-66-3 | Chloroform | ND | | 50 | 45.0 | 90 | 50 | 41.8 | 84 | 7 | 68-120/13 |
| 74-87-3 | Chloromethane | ND | | 50 | 53.6 | 107 | 50 | 51.8 | 104 | 3 | 35-156/18 |
| 110-82-7 | Cyclohexane | 1.2 | J | 50 | 52.7 | 103 | 50 | 51.3 | 100 | 3 | 53-146/14 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 50 | 50.3 | 101 | 50 | 46.5 | 93 | 8 | 63-134/16 |
| 124-48-1 | Dibromochloromethane | ND | | 50 | 46.9 | 94 | 50 | 42.7 | 85 | 9 | 75-122/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 50 | 47.2 | 94 | 50 | 43.2 | 86 | 9 | 63-134/12 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 50 | 46.3 | 93 | 50 | 43.0 | 86 | 7 | 74-119/12 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 50 | 46.3 | 93 | 50 | 43.0 | 86 | 7 | 75-117/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 50 | 45.5 | 91 | 50 | 41.8 | 84 | 8 | 72-117/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 50 | 51.1 | 102 | 50 | 50.7 | 101 | 1 | 34-163/16 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 50 | 50.7 | 101 | 50 | 47.2 | 94 | 7 | 68-129/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 50 | 43.9 | 88 | 50 | 41.2 | 82 | 6 | 66-120/13 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 50 | 54.7 | 109 | 50 | 48.3 | 97 | 12 | 59-133/15 |
| 156-59-2 | cis-1,2-Dichloroethene | 2.8 | | 50 | 54.8 | 104 | 50 | 51.0 | 96 | 7 | 52-140/12 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 50 | 49.4 | 99 | 50 | 46.2 | 92 | 7 | 70-125/13 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 50 | 50.4 | 101 | 50 | 47.5 | 95 | 6 | 73-124/12 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 50 | 47.3 | 95 | 50 | 44.6 | 89 | 6 | 75-125/13 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 50 | 47.7 | 95 | 50 | 43.9 | 88 | 8 | 75-122/12 |
| 100-41-4 | Ethylbenzene | ND | | 50 | 49.9 | 100 | 50 | 45.0 | 90 | 10 | 37-144/12 |
| 76-13-1 | Freon 113 | ND | | 50 | 54.0 | 108 | 50 | 45.1 | 90 | 18* [a] | 61-142/14 |
| 591-78-6 | 2-Hexanone | ND | | 200 | 222 | 111 | 200 | 203 | 102 | 9 | 56-132/16 |
| 98-82-8 | Isopropylbenzene | ND | | 50 | 48.9 | 98 | 50 | 44.5 | 89 | 9 | 71-126/13 |
| 79-20-9 | Methyl Acetate | ND | | 50 | 45.3 | 91 | 50 | 42.2 | 84 | 7 | 51-139/18 |
| 108-87-2 | Methylcyclohexane | 0.96 | J | 50 | 48.0 | 94 | 50 | 45.3 | 89 | 6 | 59-137/16 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 50 | 47.8 | 96 | 50 | 45.5 | 91 | 5 | 66-124/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 200 | 222 | 111 | 200 | 205 | 103 | 8 | 65-135/14 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52507-6MS | 2V92886.D | 1 | 09/27/22 | KM | n/a | n/a | V2V3773 |
| JD52507-6MSD | 2V92887.D | 1 | 09/27/22 | KM | n/a | n/a | V2V3773 |
| JD52507-6 | 2V92885.D | 1 | 09/27/22 | KM | n/a | n/a | V2V3773 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-1, JD52507-2, JD52507-3, JD52507-4, JD52507-5, JD52507-6, JD52507-7

| CAS No. | Compound | JD52507-6 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | | 50 | 45.1 | 90 | 50 | 42.1 | 84 | 7 | 66-125/14 |
| 100-42-5 | Styrene | ND | | 50 | 48.6 | 97 | 50 | 44.0 | 88 | 10 | 71-133/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 50 | 47.1 | 94 | 50 | 44.1 | 88 | 7 | 68-127/14 |
| 127-18-4 | Tetrachloroethene | ND | | 50 | 47.6 | 95 | 50 | 44.3 | 89 | 7 | 58-132/13 |
| 108-88-3 | Toluene | ND | | 50 | 46.8 | 94 | 50 | 43.1 | 86 | 8 | 46-139/12 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 50 | 47.7 | 95 | 50 | 44.3 | 89 | 7 | 61-137/16 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 50 | 47.8 | 96 | 50 | 44.5 | 89 | 7 | 67-132/13 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 50 | 48.8 | 98 | 50 | 45.2 | 90 | 8 | 75-120/12 |
| 79-01-6 | Trichloroethene | ND | | 50 | 47.0 | 94 | 50 | 43.3 | 87 | 8 | 56-136/12 |
| 75-69-4 | Trichlorofluoromethane | ND | | 50 | 91.3 | 183* [a] | 50 | 87.2 | 174* [a] | 5 | 61-145/16 |
| 75-01-4 | Vinyl chloride | ND | | 50 | 62.7 | 125 | 50 | 61.6 | 123 | 2 | 41-156/16 |
| 1330-20-7 | Xylene (total) | ND | | 150 | 146 | 97 | 150 | 132 | 88 | 10 | 38-147/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JD52507-6 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 101% | 102% | 98% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | 100% | 91% | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | 99% | 103% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | 97% | 94% | 82-114% |

(a) Outside control limits.
(b) Outside control limits due to matrix interference.

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD50917-15MS | 2A220400.D | 5 | 09/29/22 | NH | n/a | n/a | V2A9581 |
| JD50917-15MSD | 2A220401.D | 5 | 09/29/22 | NH | n/a | n/a | V2A9581 |
| JD50917-15 [a] | 2A220395.D | 5 | 09/29/22 | NH | n/a | n/a | V2A9581 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-3

| CAS No. | Compound | JD50917-15 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 1000 | 864 | 86 | 1000 | 811 | 81 | 6 | 22-134/19 |
| 71-43-2 | Benzene | ND | | 250 | 239 | 96 | 250 | 227 | 91 | 5 | 49-137/12 |
| 75-27-4 | Bromodichloromethane | ND | | 250 | 222 | 89 | 250 | 210 | 84 | 6 | 76-121/12 |
| 75-25-2 | Bromoform | ND | | 250 | 217 | 87 | 250 | 207 | 83 | 5 | 70-133/13 |
| 74-83-9 | Bromomethane | ND | | 250 | 209 | 84 | 250 | 207 | 83 | 1 | 27-164/38 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 1000 | 1080 | 108 | 1000 | 1000 | 100 | 8 | 52-137/17 |
| 75-15-0 | Carbon disulfide | ND | | 250 | 208 | 83 | 250 | 200 | 80 | 4 | 54-136/16 |
| 56-23-5 | Carbon tetrachloride | ND | | 250 | 227 | 91 | 250 | 217 | 87 | 5 | 70-132/13 |
| 108-90-7 | Chlorobenzene | ND | | 250 | 237 | 95 | 250 | 224 | 90 | 6 | 68-123/12 |
| 75-00-3 | Chloroethane | ND | | 250 | 241 | 96 | 250 | 235 | 94 | 3 | 48-152/17 |
| 67-66-3 | Chloroform | ND | | 250 | 235 | 94 | 250 | 223 | 89 | 5 | 68-120/13 |
| 74-87-3 | Chloromethane | ND | | 250 | 175 | 70 | 250 | 171 | 68 | 2 | 35-156/18 |
| 110-82-7 | Cyclohexane | ND | | 250 | 235 | 94 | 250 | 230 | 92 | 2 | 53-146/14 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 250 | 209 | 84 | 250 | 197 | 79 | 6 | 63-134/16 |
| 124-48-1 | Dibromochloromethane | ND | | 250 | 220 | 88 | 250 | 209 | 84 | 5 | 75-122/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 250 | 227 | 91 | 250 | 213 | 85 | 6 | 63-134/12 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 250 | 223 | 89 | 250 | 212 | 85 | 5 | 74-119/12 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 250 | 226 | 90 | 250 | 213 | 85 | 6 | 75-117/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 250 | 218 | 87 | 250 | 206 | 82 | 6 | 72-117/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 250 | 178 | 71 | 250 | 176 | 70 | 1 | 34-163/16 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 250 | 250 | 100 | 250 | 237 | 95 | 5 | 68-129/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 250 | 212 | 85 | 250 | 200 | 80 | 6 | 66-120/13 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 250 | 209 | 84 | 250 | 201 | 80 | 4 | 59-133/15 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 250 | 234 | 94 | 250 | 225 | 90 | 4 | 70-125/13 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 250 | 238 | 95 | 250 | 227 | 91 | 5 | 73-124/12 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 250 | 246 | 98 | 250 | 230 | 92 | 7 | 75-125/13 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 250 | 233 | 93 | 250 | 219 | 88 | 6 | 75-122/12 |
| 100-41-4 | Ethylbenzene | ND | | 250 | 229 | 92 | 250 | 217 | 87 | 5 | 37-144/12 |
| 76-13-1 | Freon 113 | ND | | 250 | 205 | 82 | 250 | 198 | 79 | 3 | 61-142/14 |
| 591-78-6 | 2-Hexanone | ND | | 1000 | 928 | 93 | 1000 | 850 | 85 | 9 | 56-132/16 |
| 98-82-8 | Isopropylbenzene | ND | | 250 | 220 | 88 | 250 | 208 | 83 | 6 | 71-126/13 |
| 79-20-9 | Methyl Acetate | ND | | 250 | 238 | 95 | 250 | 219 | 88 | 8 | 51-139/18 |
| 108-87-2 | Methylcyclohexane | ND | | 250 | 212 | 85 | 250 | 206 | 82 | 3 | 59-137/16 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 250 | 241 | 96 | 250 | 230 | 92 | 5 | 66-124/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 1000 | 908 | 91 | 1000 | 844 | 84 | 7 | 65-135/14 |
| 75-09-2 | Methylene chloride | ND | | 250 | 237 | 95 | 250 | 229 | 92 | 3 | 66-125/14 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD50917-15MS | 2A220400.D | 5 | 09/29/22 | NH | n/a | n/a | V2A9581 |
| JD50917-15MSD | 2A220401.D | 5 | 09/29/22 | NH | n/a | n/a | V2A9581 |
| JD50917-15 [a] | 2A220395.D | 5 | 09/29/22 | NH | n/a | n/a | V2A9581 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-3

| CAS No. | Compound | JD50917-15 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 100-42-5 | Styrene | ND | | 250 | 220 | 88 | 250 | 209 | 84 | 5 | 71-133/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 250 | 226 | 90 | 250 | 212 | 85 | 6 | 68-127/14 |
| 127-18-4 | Tetrachloroethene | 680 | | 250 | 685 | 2* [b] | 250 | 663 | -7* [b] | 3 | 58-132/13 |
| 108-88-3 | Toluene | ND | | 250 | 236 | 94 | 250 | 223 | 89 | 6 | 46-139/12 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 250 | 225 | 90 | 250 | 218 | 87 | 3 | 61-137/16 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 250 | 236 | 94 | 250 | 224 | 90 | 5 | 67-132/13 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 250 | 231 | 92 | 250 | 217 | 87 | 6 | 75-120/12 |
| 79-01-6 | Trichloroethene | 256 | | 250 | 409 | 61 | 250 | 394 | 55* [c] | 4 | 56-136/12 |
| 75-69-4 | Trichlorofluoromethane | ND | | 250 | 216 | 86 | 250 | 213 | 85 | 1 | 61-145/16 |
| 1330-20-7 | Xylene (total) | ND | | 750 | 667 | 89 | 750 | 628 | 84 | 6 | 38-147/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JD50917-15 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 104% | 105% | 104% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 83% | 83% | 86% | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | 99% | 98% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 110% | 109% | 113% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Outside control limits due to matrix interference.

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52594-1MS [a] | 1X200596.D | 4 | 09/29/22 | TS | n/a | n/a | V1X8637 |
| JD52594-1MSD [a] | 1X200597.D | 4 | 09/29/22 | TS | n/a | n/a | V1X8637 |
| JD52594-1 [b] | 1X200584.D | 4 | 09/29/22 | TS | n/a | n/a | V1X8637 |
| JD52594-1 [a] | 1X200598.D | 40 | 09/29/22 | TS | n/a | n/a | V1X8637 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-18, JD52507-19, JD52507-22

| CAS No. | Compound | JD52594-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 800 | 686 | 86 | 800 | 689 | 86 | 0 | 22-134/19 |
| 71-43-2 | Benzene | 751 | | 200 | 804 | 27* [c] | 200 | 819 | 34* [c] | 2 | 49-137/12 |
| 75-27-4 | Bromodichloromethane | ND | | 200 | 189 | 95 | 200 | 197 | 99 | 4 | 76-121/12 |
| 75-25-2 | Bromoform | ND | | 200 | 210 | 105 | 200 | 217 | 109 | 3 | 70-133/13 |
| 74-83-9 | Bromomethane | ND | | 200 | 102 | 51 | 200 | 126 | 63 | 21 | 27-164/38 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 800 | 768 | 96 | 800 | 779 | 97 | 1 | 52-137/17 |
| 75-15-0 | Carbon disulfide | ND | | 200 | 179 | 90 | 200 | 178 | 89 | 1 | 54-136/16 |
| 56-23-5 | Carbon tetrachloride | ND | | 200 | 178 | 89 | 200 | 178 | 89 | 0 | 70-132/13 |
| 108-90-7 | Chlorobenzene | ND | | 200 | 187 | 94 | 200 | 190 | 95 | 2 | 68-123/12 |
| 75-00-3 | Chloroethane | ND | | 200 | 126 | 63 | 200 | 124 | 62 | 2 | 48-152/17 |
| 67-66-3 | Chloroform | ND | | 200 | 168 | 84 | 200 | 172 | 86 | 2 | 68-120/13 |
| 74-87-3 | Chloromethane | ND | | 200 | 137 | 69 | 200 | 134 | 67 | 2 | 35-156/18 |
| 110-82-7 | Cyclohexane | ND | | 200 | 138 | 69 | 200 | 137 | 69 | 1 | 53-146/14 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 200 | 207 | 104 | 200 | 219 | 110 | 6 | 63-134/16 |
| 124-48-1 | Dibromochloromethane | ND | | 200 | 200 | 100 | 200 | 208 | 104 | 4 | 75-122/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 200 | 193 | 97 | 200 | 201 | 101 | 4 | 63-134/12 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 200 | 192 | 96 | 200 | 198 | 99 | 3 | 74-119/12 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 200 | 191 | 96 | 200 | 195 | 98 | 2 | 75-117/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 200 | 188 | 94 | 200 | 192 | 96 | 2 | 72-117/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 200 | 169 | 85 | 200 | 166 | 83 | 2 | 34-163/16 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 200 | 177 | 89 | 200 | 176 | 88 | 1 | 68-129/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 200 | 186 | 93 | 200 | 193 | 97 | 4 | 66-120/13 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 200 | 179 | 90 | 200 | 176 | 88 | 2 | 59-133/15 |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | 200 | 178 | 89 | 200 | 179 | 90 | 1 | 52-140/12 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 200 | 176 | 88 | 200 | 174 | 87 | 1 | 70-125/13 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 200 | 189 | 95 | 200 | 192 | 96 | 2 | 73-124/12 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 200 | 199 | 100 | 200 | 207 | 104 | 4 | 75-125/13 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 200 | 199 | 100 | 200 | 209 | 105 | 5 | 75-122/12 |
| 100-41-4 | Ethylbenzene | 116 | | 200 | 281 | 83 | 200 | 284 | 84 | 1 | 37-144/12 |
| 76-13-1 | Freon 113 | ND | | 200 | 178 | 89 | 200 | 176 | 88 | 1 | 61-142/14 |
| 591-78-6 | 2-Hexanone | ND | | 800 | 795 | 99 | 800 | 827 | 103 | 4 | 56-132/16 |
| 98-82-8 | Isopropylbenzene | 9.9 | | 200 | 194 | 92 | 200 | 197 | 94 | 2 | 71-126/13 |
| 79-20-9 | Methyl Acetate | ND | | 200 | 179 | 90 | 200 | 186 | 93 | 4 | 51-139/18 |
| 108-87-2 | Methylcyclohexane | ND | | 200 | 187 | 94 | 200 | 185 | 93 | 1 | 59-137/16 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 200 | 177 | 89 | 200 | 183 | 92 | 3 | 66-124/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 800 | 819 | 102 | 800 | 849 | 106 | 4 | 65-135/14 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52594-1MS [a] | 1X200596.D | 4 | 09/29/22 | TS | n/a | n/a | V1X8637 |
| JD52594-1MSD [a] | 1X200597.D | 4 | 09/29/22 | TS | n/a | n/a | V1X8637 |
| JD52594-1 [b] | 1X200584.D | 4 | 09/29/22 | TS | n/a | n/a | V1X8637 |
| JD52594-1 [a] | 1X200598.D | 40 | 09/29/22 | TS | n/a | n/a | V1X8637 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-18, JD52507-19, JD52507-22

| CAS No. | Compound | JD52594-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | | 200 | 174 | 87 | 200 | 178 | 89 | 2 | 66-125/14 |
| 100-42-5 | Styrene | ND | | 200 | 188 | 94 | 200 | 194 | 97 | 3 | 71-133/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 200 | 209 | 105 | 200 | 217 | 109 | 4 | 68-127/14 |
| 127-18-4 | Tetrachloroethene | ND | | 200 | 191 | 96 | 200 | 191 | 96 | 0 | 58-132/13 |
| 108-88-3 | Toluene | 22.6 | | 200 | 208 | 93 | 200 | 211 | 94 | 1 | 46-139/12 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 200 | 195 | 98 | 200 | 201 | 101 | 3 | 61-137/16 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 200 | 174 | 87 | 200 | 174 | 87 | 0 | 67-132/13 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 200 | 189 | 95 | 200 | 195 | 98 | 3 | 75-120/12 |
| 79-01-6 | Trichloroethene | ND | | 200 | 186 | 93 | 200 | 187 | 94 | 1 | 56-136/12 |
| 75-69-4 | Trichlorofluoromethane | ND | | 200 | 161 | 81 | 200 | 159 | 80 | 1 | 61-145/16 |
| 75-01-4 | Vinyl chloride | ND | | 200 | 146 | 73 | 200 | 141 | 71 | 3 | 41-156/16 |
| 1330-20-7 | Xylene (total) | 185 | | 600 | 715 | 88 | 600 | 725 | 90 | 1 | 38-147/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JD52594-1 | JD52594-1 | Limits |
|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | 94% | 96% | 95% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96% | 96% | 99% | 97% | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | 100% | 100% | 99% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 99% | 98% | 100% | 82-114% |

(a) (pH= 6) Sample pH did not satisfy field preservation criteria.
(b) (pH= 6) Sample pH did not satisfy field preservation criteria. Dilution required due to high concentration of target compound.
(c) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52507-10MS | 2V93006.D | 100 | 09/29/22 | KM | n/a | n/a | V2V3777 |
| JD52507-10MSD | 2V93007.D | 100 | 09/30/22 | KM | n/a | n/a | V2V3777 |
| JD52507-10 [a] | 2V93005.D | 100 | 09/29/22 | KM | n/a | n/a | V2V3777 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-9, JD52507-11, JD52507-12, JD52507-13, JD52507-14, JD52507-23, JD52507-24, JD52507-25, JD52507-26, JD52507-27, JD52507-28, JD52507-29, JD52507-30, JD52507-31, JD52507-33, JD52507-36

| CAS No. | Compound | JD52507-10 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 20000 | 23100 | 116 | 20000 | 22600 | 113 | 2 | 22-134/19 |
| 71-43-2 | Benzene | ND | | 5000 | 4910 | 98 | 5000 | 4910 | 98 | 0 | 49-137/12 |
| 75-27-4 | Bromodichloromethane | ND | | 5000 | 4930 | 99 | 5000 | 4880 | 98 | 1 | 76-121/12 |
| 75-25-2 | Bromoform | ND | | 5000 | 5050 | 101 | 5000 | 5010 | 100 | 1 | 70-133/13 |
| 74-83-9 | Bromomethane | ND | | 5000 | 6610 | 132 | 5000 | 6700 | 134 | 1 | 27-164/38 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 20000 | 24700 | 124 | 20000 | 24500 | 123 | 1 | 52-137/17 |
| 75-15-0 | Carbon disulfide | ND | | 5000 | 4340 | 87 | 5000 | 4290 | 86 | 1 | 54-136/16 |
| 56-23-5 | Carbon tetrachloride | ND | | 5000 | 4930 | 99 | 5000 | 4850 | 97 | 2 | 70-132/13 |
| 108-90-7 | Chlorobenzene | ND | | 5000 | 4780 | 96 | 5000 | 4700 | 94 | 2 | 68-123/12 |
| 75-00-3 | Chloroethane | ND | | 5000 | 9080 | 182* [b] | 5000 | 6200 | 124 | 38* [c] | 48-152/17 |
| 67-66-3 | Chloroform | ND | | 5000 | 4640 | 93 | 5000 | 4640 | 93 | 0 | 68-120/13 |
| 74-87-3 | Chloromethane | ND | | 5000 | 4080 | 82 | 5000 | 4000 | 80 | 2 | 35-156/18 |
| 110-82-7 | Cyclohexane | ND | | 5000 | 4170 | 83 | 5000 | 4190 | 84 | 0 | 53-146/14 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 5000 | 5360 | 107 | 5000 | 5360 | 107 | 0 | 63-134/16 |
| 124-48-1 | Dibromochloromethane | ND | | 5000 | 4940 | 99 | 5000 | 4860 | 97 | 2 | 75-122/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 5000 | 5070 | 101 | 5000 | 5010 | 100 | 1 | 63-134/12 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 5000 | 4830 | 97 | 5000 | 4680 | 94 | 3 | 74-119/12 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 5000 | 4710 | 94 | 5000 | 4620 | 92 | 2 | 75-117/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 5000 | 4640 | 93 | 5000 | 4540 | 91 | 2 | 72-117/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 5000 | 4270 | 85 | 5000 | 4210 | 84 | 1 | 34-163/16 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 5000 | 5180 | 104 | 5000 | 5160 | 103 | 0 | 68-129/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 5000 | 4850 | 97 | 5000 | 4800 | 96 | 1 | 66-120/13 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 5000 | 5050 | 101 | 5000 | 4900 | 98 | 3 | 59-133/15 |
| 156-59-2 | cis-1,2-Dichloroethene | 9010 | | 5000 | 15400 | 128 | 5000 | 15300 | 126 | 1 | 52-140/12 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 5000 | 5020 | 100 | 5000 | 4970 | 99 | 1 | 70-125/13 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 5000 | 5330 | 107 | 5000 | 5270 | 105 | 1 | 73-124/12 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 5000 | 5120 | 102 | 5000 | 5090 | 102 | 1 | 75-125/13 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 5000 | 5030 | 101 | 5000 | 4990 | 100 | 1 | 75-122/12 |
| 100-41-4 | Ethylbenzene | ND | | 5000 | 5000 | 100 | 5000 | 4930 | 99 | 1 | 37-144/12 |
| 76-13-1 | Freon 113 | ND | | 5000 | 4850 | 97 | 5000 | 4670 | 93 | 4 | 61-142/14 |
| 591-78-6 | 2-Hexanone | ND | | 20000 | 23300 | 117 | 20000 | 23200 | 116 | 0 | 56-132/16 |
| 98-82-8 | Isopropylbenzene | ND | | 5000 | 4920 | 98 | 5000 | 4770 | 95 | 3 | 71-126/13 |
| 79-20-9 | Methyl Acetate | ND | | 5000 | 5350 | 107 | 5000 | 5410 | 108 | 1 | 51-139/18 |
| 108-87-2 | Methylcyclohexane | ND | | 5000 | 4910 | 98 | 5000 | 4780 | 96 | 3 | 59-137/16 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 5000 | 5230 | 105 | 5000 | 5290 | 106 | 1 | 66-124/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 20000 | 24000 | 120 | 20000 | 23600 | 118 | 2 | 65-135/14 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52507-10MS | 2V93006.D | 100 | 09/29/22 | KM | n/a | n/a | V2V3777 |
| JD52507-10MSD | 2V93007.D | 100 | 09/30/22 | KM | n/a | n/a | V2V3777 |
| JD52507-10 [a] | 2V93005.D | 100 | 09/29/22 | KM | n/a | n/a | V2V3777 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-9, JD52507-11, JD52507-12, JD52507-13, JD52507-14, JD52507-23, JD52507-24, JD52507-25, JD52507-26, JD52507-27, JD52507-28, JD52507-29, JD52507-30, JD52507-31, JD52507-33, JD52507-36

| CAS No. | Compound | JD52507-10 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | | 5000 | 4720 | 94 | 5000 | 4720 | 94 | 0 | 66-125/14 |
| 100-42-5 | Styrene | ND | | 5000 | 5010 | 100 | 5000 | 4930 | 99 | 2 | 71-133/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 5000 | 5140 | 103 | 5000 | 5050 | 101 | 2 | 68-127/14 |
| 127-18-4 | Tetrachloroethene | ND | | 5000 | 4850 | 97 | 5000 | 4610 | 92 | 5 | 58-132/13 |
| 108-88-3 | Toluene | ND | | 5000 | 4730 | 95 | 5000 | 4650 | 93 | 2 | 46-139/12 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 5000 | 5030 | 101 | 5000 | 5000 | 100 | 1 | 61-137/16 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 5000 | 4790 | 96 | 5000 | 4790 | 96 | 0 | 67-132/13 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 5000 | 5190 | 104 | 5000 | 5150 | 103 | 1 | 75-120/12 |
| 79-01-6 | Trichloroethene | 517 | | 5000 | 5320 | 96 | 5000 | 5290 | 95 | 1 | 56-136/12 |
| 75-69-4 | Trichlorofluoromethane | ND | | 5000 | 8030 | 161* [b] | 5000 | 7690 | 154* [b] | 4 | 61-145/16 |
| 75-01-4 | Vinyl chloride | 2920 | | 5000 | 7530 | 92 | 5000 | 7380 | 89 | 2 | 41-156/16 |
| 1330-20-7 | Xylene (total) | ND | | 15000 | 14800 | 99 | 15000 | 14500 | 97 | 2 | 38-147/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JD52507-10 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 100% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102% | 102% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 99% | 98% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | 95% | | 82-114% |

(a) Sample used for QC purposes only.
(b) Outside in house control limits.
(c) Outside control limits due to matrix interference.

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52514-12MS | 2A220451.D | 5 | 09/30/22 | NH | n/a | n/a | V2A9583 |
| JD52514-12MSD | 2A220452.D | 5 | 09/30/22 | NH | n/a | n/a | V2A9583 |
| JD52514-12 [a] | 2A220447.D | 5 | 09/30/22 | NH | n/a | n/a | V2A9583 |
| JD52514-12 | 2A220449.D | 50 | 09/30/22 | NH | n/a | n/a | V2A9583 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-12, JD52507-13

| CAS No. | Compound | JD52514-12 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethene | 2030 [c] | | 250 | 1980 | -4* [b] | 250 | 1980 | -4* [b] | 0 | 52-140/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JD52514-12 | JD52514-12 | Limits |
|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 109% | 109% | 109% | 109% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 79%* [d] | 79%* [d] | 82% | 83% | 80-120% |
| 2037-26-5 | Toluene-D8 | 93% | 94% | 92% | 92% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 107% | 107% | 109% | 109% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Result is from Run #2.
(d) Outside control limits due to matrix interference.

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52624-3MS | 1A226620.D | 10 | 09/30/22 | NW | n/a | n/a | V1A9705 |
| JD52624-3MSD | 1A226621.D | 10 | 09/30/22 | NW | n/a | n/a | V1A9705 |
| JD52624-3 [a] | 1A226619.D | 10 | 09/30/22 | NW | n/a | n/a | V1A9705 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-8, JD52507-10

| CAS No. | Compound | JD52624-3 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 2000 | 1780 | 89 | 2000 | 1730 | 87 | 3 | 22-134/19 |
| 71-43-2 | Benzene | ND | | 500 | 492 | 98 | 500 | 508 | 102 | 3 | 49-137/12 |
| 75-27-4 | Bromodichloromethane | ND | | 500 | 484 | 97 | 500 | 495 | 99 | 2 | 76-121/12 |
| 75-25-2 | Bromoform | ND | | 500 | 472 | 94 | 500 | 484 | 97 | 3 | 70-133/13 |
| 74-83-9 | Bromomethane | ND | | 500 | 456 | 91 | 500 | 529 | 106 | 15 | 27-164/38 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 2000 | 1910 | 96 | 2000 | 1870 | 94 | 2 | 52-137/17 |
| 75-15-0 | Carbon disulfide | ND | | 500 | 374 | 75 | 500 | 382 | 76 | 2 | 54-136/16 |
| 56-23-5 | Carbon tetrachloride | ND | | 500 | 514 | 103 | 500 | 513 | 103 | 0 | 70-132/13 |
| 108-90-7 | Chlorobenzene | ND | | 500 | 476 | 95 | 500 | 487 | 97 | 2 | 68-123/12 |
| 75-00-3 | Chloroethane | 15.5 | | 500 | 462 | 89 | 500 | 473 | 92 | 2 | 48-152/17 |
| 67-66-3 | Chloroform | ND | | 500 | 470 | 94 | 500 | 467 | 93 | 1 | 68-120/13 |
| 74-87-3 | Chloromethane | ND | | 500 | 429 | 86 | 500 | 444 | 89 | 3 | 35-156/18 |
| 110-82-7 | Cyclohexane | ND | | 500 | 481 | 96 | 500 | 473 | 95 | 2 | 53-146/14 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 500 | 500 | 100 | 500 | 518 | 104 | 4 | 63-134/16 |
| 124-48-1 | Dibromochloromethane | ND | | 500 | 466 | 93 | 500 | 483 | 97 | 4 | 75-122/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 500 | 485 | 97 | 500 | 491 | 98 | 1 | 63-134/12 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 500 | 497 | 99 | 500 | 512 | 102 | 3 | 74-119/12 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 500 | 500 | 100 | 500 | 510 | 102 | 2 | 75-117/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 500 | 470 | 94 | 500 | 484 | 97 | 3 | 72-117/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 500 | 403 | 81 | 500 | 410 | 82 | 2 | 34-163/16 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 500 | 487 | 97 | 500 | 484 | 97 | 1 | 68-129/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 500 | 494 | 99 | 500 | 498 | 100 | 1 | 66-120/13 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 500 | 439 | 88 | 500 | 438 | 88 | 0 | 59-133/15 |
| 156-59-2 | cis-1,2-Dichloroethene | 33.4 | | 500 | 530 | 99 | 500 | 529 | 99 | 0 | 52-140/12 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 500 | 472 | 94 | 500 | 476 | 95 | 1 | 70-125/13 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 500 | 495 | 99 | 500 | 491 | 98 | 1 | 73-124/12 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 500 | 522 | 104 | 500 | 523 | 105 | 0 | 75-125/13 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 500 | 544 | 109 | 500 | 542 | 108 | 0 | 75-122/12 |
| 100-41-4 | Ethylbenzene | ND | | 500 | 477 | 95 | 500 | 483 | 97 | 1 | 37-144/12 |
| 76-13-1 | Freon 113 | ND | | 500 | 448 | 90 | 500 | 445 | 89 | 1 | 61-142/14 |
| 591-78-6 | 2-Hexanone | ND | | 2000 | 1950 | 98 | 2000 | 1950 | 98 | 0 | 56-132/16 |
| 98-82-8 | Isopropylbenzene | ND | | 500 | 478 | 96 | 500 | 483 | 97 | 1 | 71-126/13 |
| 79-20-9 | Methyl Acetate | ND | | 500 | 446 | 89 | 500 | 448 | 90 | 0 | 51-139/18 |
| 108-87-2 | Methylcyclohexane | ND | | 500 | 437 | 87 | 500 | 429 | 86 | 2 | 59-137/16 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 500 | 462 | 92 | 500 | 470 | 94 | 2 | 66-124/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 2000 | 1990 | 100 | 2000 | 2000 | 100 | 1 | 65-135/14 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52624-3MS | 1A226620.D | 10 | 09/30/22 | NW | n/a | n/a | V1A9705 |
| JD52624-3MSD | 1A226621.D | 10 | 09/30/22 | NW | n/a | n/a | V1A9705 |
| JD52624-3 [a] | 1A226619.D | 10 | 09/30/22 | NW | n/a | n/a | V1A9705 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-8, JD52507-10

| CAS No. | Compound | JD52624-3 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | | 500 | 443 | 89 | 500 | 447 | 89 | 1 | 66-125/14 |
| 100-42-5 | Styrene | ND | | 500 | 531 | 106 | 500 | 532 | 106 | 0 | 71-133/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 500 | 484 | 97 | 500 | 501 | 100 | 3 | 68-127/14 |
| 127-18-4 | Tetrachloroethene | ND | | 500 | 492 | 98 | 500 | 485 | 97 | 1 | 58-132/13 |
| 108-88-3 | Toluene | ND | | 500 | 502 | 100 | 500 | 497 | 99 | 1 | 46-139/12 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 500 | 470 | 94 | 500 | 498 | 100 | 6 | 61-137/16 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 500 | 497 | 99 | 500 | 498 | 100 | 0 | 67-132/13 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 500 | 477 | 95 | 500 | 482 | 96 | 1 | 75-120/12 |
| 79-01-6 | Trichloroethene | ND | | 500 | 501 | 100 | 500 | 495 | 99 | 1 | 56-136/12 |
| 75-69-4 | Trichlorofluoromethane | ND | | 500 | 484 | 97 | 500 | 489 | 98 | 1 | 61-145/16 |
| 75-01-4 | Vinyl chloride | 186 | | 500 | 609 | 85 | 500 | 609 | 85 | 0 | 41-156/16 |
| 1330-20-7 | Xylene (total) | ND | | 1500 | 1470 | 98 | 1500 | 1500 | 100 | 2 | 38-147/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JD52624-3 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 101% | 100% | | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | 99% | | 80-120% |
| 2037-26-5 | Toluene-D8 | 97% | 95% | | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 100% | | 82-114% |

(a) Sample used for QC purposes only.

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52730-7MS | 2V93140.D | 4 | 10/03/22 | TS | n/a | n/a | V2V3782 |
| JD52730-7MSD | 2V93141.D | 4 | 10/03/22 | TS | n/a | n/a | V2V3782 |
| JD52730-7 | 2V93134.D | 4 | 10/03/22 | TS | n/a | n/a | V2V3782 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-30, JD52507-31, JD52507-32, JD52507-34, JD52507-35

| CAS No. | Compound | JD52730-7 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 909 | | 800 | 1900 | 124 | 800 | 1960 | 131 | 3 | 22-134/19 |
| 71-43-2 | Benzene | 18.0 | | 200 | 223 | 103 | 200 | 227 | 105 | 2 | 49-137/12 |
| 75-27-4 | Bromodichloromethane | ND | | 200 | 204 | 102 | 200 | 211 | 106 | 3 | 76-121/12 |
| 75-25-2 | Bromoform | ND | | 200 | 201 | 101 | 200 | 211 | 106 | 5 | 70-133/13 |
| 74-83-9 | Bromomethane | ND | | 200 | 231 | 116 | 200 | 280 | 140 | 19 | 27-164/38 |
| 78-93-3 | 2-Butanone (MEK) | 877 | | 800 | 1970 | 137 | 800 | 2010 | 142* [a] | 2 | 52-137/17 |
| 75-15-0 | Carbon disulfide | 6.0 | J | 200 | 159 | 77 | 200 | 165 | 80 | 4 | 54-136/16 |
| 56-23-5 | Carbon tetrachloride | ND | | 200 | 209 | 105 | 200 | 217 | 109 | 4 | 70-132/13 |
| 108-90-7 | Chlorobenzene | 33.7 | | 200 | 231 | 99 | 200 | 242 | 104 | 5 | 68-123/12 |
| 75-00-3 | Chloroethane | ND | | 200 | 505 | 253* [a] | 200 | 503 | 252* [a] | 0 | 48-152/17 |
| 67-66-3 | Chloroform | ND | | 200 | 207 | 104 | 200 | 212 | 106 | 2 | 68-120/13 |
| 74-87-3 | Chloromethane | ND | | 200 | 236 | 118 | 200 | 238 | 119 | 1 | 35-156/18 |
| 110-82-7 | Cyclohexane | ND | | 200 | 209 | 105 | 200 | 211 | 106 | 1 | 53-146/14 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 200 | 205 | 103 | 200 | 207 | 104 | 1 | 63-134/16 |
| 124-48-1 | Dibromochloromethane | ND | | 200 | 202 | 101 | 200 | 209 | 105 | 3 | 75-122/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 200 | 208 | 104 | 200 | 212 | 106 | 2 | 63-134/12 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 200 | 208 | 104 | 200 | 215 | 108 | 3 | 74-119/12 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 200 | 200 | 100 | 200 | 204 | 102 | 2 | 75-117/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 200 | 200 | 100 | 200 | 206 | 103 | 3 | 72-117/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 200 | 193 | 97 | 200 | 202 | 101 | 5 | 34-163/16 |
| 75-34-3 | 1,1-Dichloroethane | 5.6 | | 200 | 243 | 119 | 200 | 246 | 120 | 1 | 68-129/13 |
| 107-06-2 | 1,2-Dichloroethane | 3.7 | J | 200 | 207 | 102 | 200 | 210 | 103 | 1 | 66-120/13 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 200 | 204 | 102 | 200 | 212 | 106 | 4 | 59-133/15 |
| 156-59-2 | cis-1,2-Dichloroethene | 7.6 | | 200 | 239 | 116 | 200 | 245 | 119 | 2 | 52-140/12 |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | 200 | 212 | 106 | 200 | 215 | 108 | 1 | 70-125/13 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 200 | 227 | 114 | 200 | 232 | 116 | 2 | 73-124/12 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 200 | 223 | 112 | 200 | 227 | 114 | 2 | 75-125/13 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 200 | 221 | 111 | 200 | 228 | 114 | 3 | 75-122/12 |
| 100-41-4 | Ethylbenzene | 5.7 | | 200 | 224 | 109 | 200 | 232 | 113 | 4 | 37-144/12 |
| 76-13-1 | Freon 113 | ND | | 200 | 186 | 93 | 200 | 194 | 97 | 4 | 61-142/14 |
| 591-78-6 | 2-Hexanone | 11.4 | J | 800 | 997 | 123 | 800 | 1020 | 126 | 2 | 56-132/16 |
| 98-82-8 | Isopropylbenzene | ND | | 200 | 212 | 106 | 200 | 222 | 111 | 5 | 71-126/13 |
| 79-20-9 | Methyl Acetate | ND | | 200 | 210 | 105 | 200 | 218 | 109 | 4 | 51-139/18 |
| 108-87-2 | Methylcyclohexane | ND | | 200 | 201 | 101 | 200 | 208 | 104 | 3 | 59-137/16 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 200 | 229 | 115 | 200 | 235 | 118 | 3 | 66-124/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 857 | | 800 | 2080 | 153* [a] | 800 | 2100 | 155* [a] | 1 | 65-135/14 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52730-7MS | 2V93140.D | 4 | 10/03/22 | TS | n/a | n/a | V2V3782 |
| JD52730-7MSD | 2V93141.D | 4 | 10/03/22 | TS | n/a | n/a | V2V3782 |
| JD52730-7 | 2V93134.D | 4 | 10/03/22 | TS | n/a | n/a | V2V3782 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-30, JD52507-31, JD52507-32, JD52507-34, JD52507-35

| CAS No. | Compound | JD52730-7 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | 37.3 | | 200 | 244 | 103 | 200 | 251 | 107 | 3 | 66-125/14 |
| 100-42-5 | Styrene | ND | | 200 | 220 | 110 | 200 | 235 | 118 | 7 | 71-133/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 200 | 217 | 109 | 200 | 216 | 108 | 0 | 68-127/14 |
| 127-18-4 | Tetrachloroethene | ND | | 200 | 199 | 100 | 200 | 202 | 101 | 1 | 58-132/13 |
| 108-88-3 | Toluene | 109 | | 200 | 318 | 105 | 200 | 339 | 115 | 6 | 46-139/12 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 200 | 201 | 101 | 200 | 199 | 100 | 1 | 61-137/16 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 200 | 209 | 105 | 200 | 217 | 109 | 4 | 67-132/13 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 200 | 216 | 108 | 200 | 225 | 113 | 4 | 75-120/12 |
| 79-01-6 | Trichloroethene | ND | | 200 | 200 | 100 | 200 | 203 | 102 | 1 | 56-136/12 |
| 75-69-4 | Trichlorofluoromethane | ND | | 200 | 210 | 105 | 200 | 213 | 107 | 1 | 61-145/16 |
| 75-01-4 | Vinyl chloride | ND | | 200 | 276 | 138 | 200 | 279 | 140 | 1 | 41-156/16 |
| 1330-20-7 | Xylene (total) | 4.1 | | 600 | 643 | 106 | 600 | 677 | 112 | 5 | 38-147/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JD52730-7 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 107% | 107% | 109% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106% | 106% | 100% | 80-120% |
| 2037-26-5 | Toluene-D8 | 100% | 103% | 103% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | 96% | 97% | 82-114% |

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52507-37MS | L347847.D | 5 | 10/04/22 | NH | n/a | n/a | VL10519 |
| JD52507-37MSD | L347848.D | 5 | 10/04/22 | NH | n/a | n/a | VL10519 |
| JD52507-37 [a] | L347837.D | 5 | 10/04/22 | NH | n/a | n/a | VL10519 |
| JD52507-37 | L347836.D | 50 | 10/04/22 | NH | n/a | n/a | VL10519 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-37

| CAS No. | Compound | JD52507-37 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 1000 | 991 | 99 | 1000 | 989 | 99 | 0 | 22-134/19 |
| 71-43-2 | Benzene | ND | | 250 | 263 | 105 | 250 | 264 | 106 | 0 | 49-137/12 |
| 75-27-4 | Bromodichloromethane | ND | | 250 | 239 | 96 | 250 | 244 | 98 | 2 | 76-121/12 |
| 75-25-2 | Bromoform | ND | | 250 | 214 | 86 | 250 | 219 | 88 | 2 | 70-133/13 |
| 74-83-9 | Bromomethane | ND | | 250 | 154 | 62 | 250 | 190 | 76 | 21 | 27-164/38 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 1000 | 964 | 96 | 1000 | 979 | 98 | 2 | 52-137/17 |
| 75-15-0 | Carbon disulfide | ND | | 250 | 209 | 84 | 250 | 215 | 86 | 3 | 54-136/16 |
| 56-23-5 | Carbon tetrachloride | ND | | 250 | 240 | 96 | 250 | 243 | 97 | 1 | 70-132/13 |
| 108-90-7 | Chlorobenzene | ND | | 250 | 258 | 103 | 250 | 263 | 105 | 2 | 68-123/12 |
| 75-00-3 | Chloroethane | ND | | 250 | 204 | 82 | 250 | 201 | 80 | 1 | 48-152/17 |
| 67-66-3 | Chloroform | ND | | 250 | 244 | 98 | 250 | 247 | 99 | 1 | 68-120/13 |
| 74-87-3 | Chloromethane | ND | | 250 | 224 | 90 | 250 | 225 | 90 | 0 | 35-156/18 |
| 110-82-7 | Cyclohexane | ND | | 250 | 220 | 88 | 250 | 218 | 87 | 1 | 53-146/14 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 250 | 230 | 92 | 250 | 236 | 94 | 3 | 63-134/16 |
| 124-48-1 | Dibromochloromethane | ND | | 250 | 221 | 88 | 250 | 227 | 91 | 3 | 75-122/12 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 250 | 235 | 94 | 250 | 239 | 96 | 2 | 63-134/12 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 250 | 236 | 94 | 250 | 242 | 97 | 3 | 74-119/12 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 250 | 255 | 102 | 250 | 260 | 104 | 2 | 75-117/12 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 250 | 244 | 98 | 250 | 247 | 99 | 1 | 72-117/12 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 250 | 260 | 104 | 250 | 256 | 102 | 2 | 34-163/16 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 250 | 270 | 108 | 250 | 269 | 108 | 0 | 68-129/13 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 250 | 237 | 95 | 250 | 234 | 94 | 1 | 66-120/13 |
| 75-35-4 | 1,1-Dichloroethene | ND | | 250 | 261 | 104 | 250 | 256 | 102 | 2 | 59-133/15 |
| 156-59-2 | cis-1,2-Dichloroethene | 1830 [c] | | 250 | 1400 | -44* [b] | 250 | 1400 | -44* [b] | 0 | 52-140/12 |
| 156-60-5 | trans-1,2-Dichloroethene | 33.6 | | 250 | 295 | 105 | 250 | 291 | 103 | 1 | 70-125/13 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 250 | 279 | 112 | 250 | 284 | 114 | 2 | 73-124/12 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 250 | 252 | 101 | 250 | 254 | 102 | 1 | 75-125/13 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 250 | 203 | 81 | 250 | 211 | 84 | 4 | 75-122/12 |
| 100-41-4 | Ethylbenzene | ND | | 250 | 250 | 100 | 250 | 254 | 102 | 2 | 37-144/12 |
| 76-13-1 | Freon 113 | ND | | 250 | 284 | 114 | 250 | 277 | 111 | 2 | 61-142/14 |
| 591-78-6 | 2-Hexanone | ND | | 1000 | 917 | 92 | 1000 | 962 | 96 | 5 | 56-132/16 |
| 98-82-8 | Isopropylbenzene | ND | | 250 | 250 | 100 | 250 | 254 | 102 | 2 | 71-126/13 |
| 79-20-9 | Methyl Acetate | ND | | 250 | 255 | 102 | 250 | 267 | 107 | 5 | 51-139/18 |
| 108-87-2 | Methylcyclohexane | ND | | 250 | 257 | 103 | 250 | 260 | 104 | 1 | 59-137/16 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 250 | 255 | 102 | 250 | 261 | 104 | 2 | 66-124/12 |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | ND | | 1000 | 1060 | 106 | 1000 | 1100 | 110 | 4 | 65-135/14 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| JD52507-37MS | L347847.D | 5 | 10/04/22 | NH | n/a | n/a | VL10519 |
| JD52507-37MSD | L347848.D | 5 | 10/04/22 | NH | n/a | n/a | VL10519 |
| JD52507-37 [a] | L347837.D | 5 | 10/04/22 | NH | n/a | n/a | VL10519 |
| JD52507-37 | L347836.D | 50 | 10/04/22 | NH | n/a | n/a | VL10519 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260D

JD52507-37

| CAS No. | Compound | JD52507-37 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 75-09-2 | Methylene chloride | ND | | 250 | 272 | 109 | 250 | 269 | 108 | 1 | 66-125/14 |
| 100-42-5 | Styrene | ND | | 250 | 246 | 98 | 250 | 250 | 100 | 2 | 71-133/12 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 250 | 230 | 92 | 250 | 233 | 93 | 1 | 68-127/14 |
| 127-18-4 | Tetrachloroethene | ND | | 250 | 263 | 105 | 250 | 264 | 106 | 0 | 58-132/13 |
| 108-88-3 | Toluene | ND | | 250 | 248 | 99 | 250 | 252 | 101 | 2 | 46-139/12 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 250 | 274 | 110 | 250 | 287 | 115 | 5 | 61-137/16 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 250 | 256 | 102 | 250 | 255 | 102 | 0 | 67-132/13 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 250 | 250 | 100 | 250 | 258 | 103 | 3 | 75-120/12 |
| 79-01-6 | Trichloroethene | 400 | | 250 | 542 | 57 | 250 | 552 | 61 | 2 | 56-136/12 |
| 75-69-4 | Trichlorofluoromethane | ND | | 250 | 252 | 101 | 250 | 255 | 102 | 1 | 61-145/16 |
| 75-01-4 | Vinyl chloride | 13.8 | | 250 | 223 | 84 | 250 | 223 | 84 | 0 | 41-156/16 |
| 1330-20-7 | Xylene (total) | ND | | 750 | 720 | 96 | 750 | 734 | 98 | 2 | 38-147/12 |

| CAS No. | Surrogate Recoveries | MS | MSD | JD52507-37 | JD52507-37 | Limits |
|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | 97% | 95% | 93% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 86% | 85% | 92% | 91% | 80-120% |
| 2037-26-5 | Toluene-D8 | 89% | 89% | 97% | 98% | 80-120% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | 94% | 91% | 91% | 82-114% |

(a) Dilution required due to high concentration of target compound.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Result is from Run #2.

* = Outside of Control Limits.

# Instrument Performance Check (BFB)



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V1A9688-BFB
**Lab File ID:** 1A226121.D
**Instrument ID:** GCMS1A
**Injection Date:** 09/13/22
**Injection Time:** 20:54

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 26189 | 18.6 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 70837 | 50.3 | | Pass |
| 95 | Base peak, 100% relative abundance | 140797 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 8869 | 6.30 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 120203 | 85.4 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 10540 | 7.49 | (8.77) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 114547 | 81.4 | (95.3) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 7444 | 5.29 | (6.50) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V1A9688-IC9688 | 1A226122.D | 09/13/22 | 21:28 | 00:34 | Initial cal 0.2 |
| V1A9688-IC9688 | 1A226123.D | 09/13/22 | 21:52 | 00:58 | Initial cal 0.5 |
| V1A9688-IC9688 | 1A226124.D | 09/13/22 | 22:16 | 01:22 | Initial cal 1 |
| V1A9688-IC9688 | 1A226125.D | 09/13/22 | 22:40 | 01:46 | Initial cal 2 |
| V1A9688-IC9688 | 1A226126.D | 09/13/22 | 23:04 | 02:10 | Initial cal 4 |
| V1A9688-IC9688 | 1A226127.D | 09/13/22 | 23:28 | 02:34 | Initial cal 8 |
| V1A9688-IC9688 | 1A226128.D | 09/13/22 | 23:52 | 02:58 | Initial cal 20 |
| V1A9688-ICC9688 | 1A226129.D | 09/14/22 | 00:16 | 03:22 | Initial cal 50 |
| V1A9688-IC9688 | 1A226130.D | 09/14/22 | 00:40 | 03:46 | Initial cal 100 |
| V1A9688-IC9688 | 1A226131.D | 09/14/22 | 01:04 | 04:10 | Initial cal 200 |
| V1A9688-ICV9688 | 1A226134.D | 09/14/22 | 02:15 | 05:21 | Initial cal verification 50 |
| V1A9688-ICV9688 | 1A226135.D | 09/14/22 | 02:39 | 05:45 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V1A9698-BFB
**Lab File ID:** 1A226430.D
**Instrument ID:** GCMS1A
**Injection Date:** 09/27/22
**Injection Time:** 09:36

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 40068 | 18.4 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 112197 | 51.7 | | Pass |
| 95 | Base peak, 100% relative abundance | 217195 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 14884 | 6.85 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 189525 | 87.3 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 16888 | 7.78 | (8.91) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 185365 | 85.3 | (97.8) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 12437 | 5.73 | (6.71) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V1A9698-CC9688 | 1A226430.D | 09/27/22 | 09:36 | 00:00 | Continuing cal 20 |
| V1A9698-BS | 1A226432.D | 09/27/22 | 10:32 | 00:56 | Blank Spike |
| V1A9698-MB | 1A226434.D | 09/27/22 | 11:28 | 01:52 | Method Blank |
| ZZZZZZ | 1A226435.D | 09/27/22 | 12:33 | 02:57 | (unrelated sample) |
| ZZZZZZ | 1A226436.D | 09/27/22 | 12:57 | 03:21 | (unrelated sample) |
| ZZZZZZ | 1A226437.D | 09/27/22 | 13:21 | 03:45 | (unrelated sample) |
| JD52310-3 | 1A226438.D | 09/27/22 | 13:45 | 04:09 | (used for QC only; not part of job JD52507) |
| ZZZZZZ | 1A226439.D | 09/27/22 | 14:09 | 04:33 | (unrelated sample) |
| ZZZZZZ | 1A226440.D | 09/27/22 | 14:33 | 04:57 | (unrelated sample) |
| ZZZZZZ | 1A226442.D | 09/27/22 | 15:21 | 05:45 | (unrelated sample) |
| ZZZZZZ | 1A226443.D | 09/27/22 | 15:45 | 06:09 | (unrelated sample) |
| JD52310-3MS | 1A226444.D | 09/27/22 | 16:24 | 06:48 | Matrix Spike |
| JD52310-3MSD | 1A226445.D | 09/27/22 | 16:48 | 07:12 | Matrix Spike Duplicate |
| ZZZZZZ | 1A226447.D | 09/27/22 | 17:36 | 08:00 | (unrelated sample) |
| ZZZZZZ | 1A226448.D | 09/27/22 | 18:00 | 08:24 | (unrelated sample) |
| ZZZZZZ | 1A226449.D | 09/27/22 | 18:24 | 08:48 | (unrelated sample) |
| JD52507-15 | 1A226450.D | 09/27/22 | 18:48 | 09:12 | MW-20B |
| JD52507-16 | 1A226451.D | 09/27/22 | 19:12 | 09:36 | MW-7B |
| JD52507-17 | 1A226452.D | 09/27/22 | 19:36 | 10:00 | MW-12C |
| JD52507-18 | 1A226453.D | 09/27/22 | 20:00 | 10:24 | MW-13C |
| JD52507-20 | 1A226455.D | 09/27/22 | 20:47 | 11:11 | MW-4B |
| JD52507-21 | 1A226456.D | 09/27/22 | 21:11 | 11:35 | MW-7-40 |
| ZZZZZZ | 1A226457.D | 09/27/22 | 21:35 | 11:59 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V1A9705-BFB
**Lab File ID:** 1A226605.D
**Instrument ID:** GCMS1A
**Injection Date:** 09/30/22
**Injection Time:** 10:42

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 39099 | 19.9 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 100955 | 51.4 | | Pass |
| 95 | Base peak, 100% relative abundance | 196224 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 13586 | 6.92 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 174400 | 88.9 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 15429 | 7.86 | (8.85) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 171605 | 87.5 | (98.4) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 11740 | 5.98 | (6.84) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V1A9705-CC9688 | 1A226605.D | 09/30/22 | 10:42 | 00:00 | Continuing cal 20 |
| V1A9704-BS2 | 1A226607.D | 09/30/22 | 11:38 | 00:56 | Blank Spike |
| V1A9705-BS | 1A226607.D | 09/30/22 | 11:38 | 00:56 | Blank Spike |
| V1A9705-MB | 1A226609.D | 09/30/22 | 12:29 | 01:47 | Method Blank |
| V1A9704-MB2 | 1A226609.D | 09/30/22 | 12:29 | 01:47 | Method Blank |
| JD52667-3DUP | 1A226610.D | 09/30/22 | 12:58 | 02:16 | Duplicate |
| ZZZZZZ | 1A226611.D | 09/30/22 | 13:22 | 02:40 | (unrelated sample) |
| ZZZZZZ | 1A226612.D | 09/30/22 | 13:46 | 03:04 | (unrelated sample) |
| JD52507-10 | 1A226613.D | 09/30/22 | 14:09 | 03:27 | MW-46-72C |
| JD52507-8 | 1A226614.D | 09/30/22 | 14:33 | 03:51 | MW-15C |
| ZZZZZZ | 1A226615.D | 09/30/22 | 14:57 | 04:15 | (unrelated sample) |
| ZZZZZZ | 1A226616.D | 09/30/22 | 15:21 | 04:39 | (unrelated sample) |
| JD52507-8 | 1A226617.D | 09/30/22 | 15:45 | 05:03 | MW-15C |
| JD52507-10 | 1A226618.D | 09/30/22 | 16:09 | 05:27 | MW-46-72C |
| JD52624-3 | 1A226619.D | 09/30/22 | 16:33 | 05:51 | (used for QC only; not part of job JD52507) |
| JD52624-3MS | 1A226620.D | 09/30/22 | 16:56 | 06:14 | Matrix Spike |
| JD52624-3MSD | 1A226621.D | 09/30/22 | 17:20 | 06:38 | Matrix Spike Duplicate |
| ZZZZZZ | 1A226623.D | 09/30/22 | 18:08 | 07:26 | (unrelated sample) |
| ZZZZZZ | 1A226624.D | 09/30/22 | 18:32 | 07:50 | (unrelated sample) |
| ZZZZZZ | 1A226626.D | 09/30/22 | 19:20 | 08:38 | (unrelated sample) |
| ZZZZZZ | 1A226628.D | 09/30/22 | 20:08 | 09:26 | (unrelated sample) |
| ZZZZZZ | 1A226629.D | 09/30/22 | 20:32 | 09:50 | (unrelated sample) |
| ZZZZZZ | 1A226630.D | 09/30/22 | 20:55 | 10:13 | (unrelated sample) |
| ZZZZZZ | 1A226631.D | 09/30/22 | 21:19 | 10:37 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Sample:** | V1A9705-BFB | **Injection Date:** | 09/30/22 |
| **Lab File ID:** | 1A226605.D | **Injection Time:** | 10:42 |
| **Instrument ID:** | GCMS1A | | |

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| ZZZZZZ | 1A226632.D | 09/30/22 | 21:43 | 11:01 | (unrelated sample) |
| ZZZZZZ | 1A226633.D | 09/30/22 | 22:07 | 11:25 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V1X8636-BFB
**Lab File ID:** 1X200546.D
**Instrument ID:** GCMS1X
**Injection Date:** 09/28/22
**Injection Time:** 20:11

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 34122 | 21.5 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 76093 | 47.9 | | Pass |
| 95 | Base peak, 100% relative abundance | 158920 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 10654 | 6.70 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 143600 | 90.4 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 10847 | 6.83 | (7.55) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 138637 | 87.2 | (96.5) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 9314 | 5.86 | (6.72) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V1X8636-IC8636 | 1X200548.D | 09/28/22 | 21:15 | 01:04 | Initial cal 0.2 |
| V1X8636-IC8636 | 1X200550.D | 09/28/22 | 21:47 | 01:36 | Initial cal 0.5 |
| V1X8636-IC8636 | 1X200552.D | 09/28/22 | 22:23 | 02:12 | Initial cal 1 |
| V1X8636-IC8636 | 1X200554.D | 09/28/22 | 23:00 | 02:49 | Initial cal 2 |
| V1X8636-IC8636 | 1X200556.D | 09/28/22 | 23:36 | 03:25 | Initial cal 4 |
| V1X8636-IC8636 | 1X200558.D | 09/29/22 | 00:12 | 04:01 | Initial cal 8 |
| V1X8636-IC8636 | 1X200560.D | 09/29/22 | 00:48 | 04:37 | Initial cal 20 |
| V1X8636-ICC8636 | 1X200562.D | 09/29/22 | 01:25 | 05:14 | Initial cal 50 |
| V1X8636-IC8636 | 1X200564.D | 09/29/22 | 02:01 | 05:50 | Initial cal 100 |
| V1X8636-IC8636 | 1X200566.D | 09/29/22 | 02:37 | 06:26 | Initial cal 200 |
| V1X8636-ICV8636 | 1X200572.D | 09/29/22 | 04:25 | 08:14 | Initial cal verification 50 |
| V1X8636-ICV8636 | 1X200574.D | 09/29/22 | 05:02 | 08:51 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V1X8637-BFB
**Lab File ID:** 1X200580.D
**Instrument ID:** GCMS1X
**Injection Date:** 09/29/22
**Injection Time:** 10:06

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 33933 | 20.6 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 77451 | 47.1 | | Pass |
| 95 | Base peak, 100% relative abundance | 164416 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 10956 | 6.66 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 153515 | 93.4 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 11945 | 7.27 | (7.78) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 147971 | 90.0 | (96.4) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 9818 | 5.97 | (6.64) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V1X8637-CC8636 | 1X200580.D | 09/29/22 | 10:06 | 00:00 | Continuing cal 20 |
| V1X8637-BS | 1X200581.D | 09/29/22 | 10:34 | 00:28 | Blank Spike |
| V1X8637-MB | 1X200583.D | 09/29/22 | 11:20 | 01:14 | Method Blank |
| JD52594-1 | 1X200584.D | 09/29/22 | 11:43 | 01:37 | (used for QC only; not part of job JD52507) |
| JD52507-18 | 1X200585.D | 09/29/22 | 12:06 | 02:00 | MW-13C |
| ZZZZZZ | 1X200586.D | 09/29/22 | 12:30 | 02:24 | (unrelated sample) |
| ZZZZZZ | 1X200587.D | 09/29/22 | 12:53 | 02:47 | (unrelated sample) |
| ZZZZZZ | 1X200589.D | 09/29/22 | 13:39 | 03:33 | (unrelated sample) |
| ZZZZZZ | 1X200590.D | 09/29/22 | 14:03 | 03:57 | (unrelated sample) |
| ZZZZZZ | 1X200591.D | 09/29/22 | 14:26 | 04:20 | (unrelated sample) |
| ZZZZZZ | 1X200592.D | 09/29/22 | 14:49 | 04:43 | (unrelated sample) |
| ZZZZZZ | 1X200593.D | 09/29/22 | 15:12 | 05:06 | (unrelated sample) |
| ZZZZZZ | 1X200594.D | 09/29/22 | 15:36 | 05:30 | (unrelated sample) |
| ZZZZZZ | 1X200595.D | 09/29/22 | 15:59 | 05:53 | (unrelated sample) |
| JD52594-1MS | 1X200596.D | 09/29/22 | 16:22 | 06:16 | Matrix Spike |
| JD52594-1MSD | 1X200597.D | 09/29/22 | 16:45 | 06:39 | Matrix Spike Duplicate |
| JD52594-1 | 1X200598.D | 09/29/22 | 17:08 | 07:02 | (used for QC only; not part of job JD52507) |
| JD52507-19 | 1X200599.D | 09/29/22 | 17:32 | 07:26 | MW-5-100 |
| ZZZZZZ | 1X200600.D | 09/29/22 | 17:55 | 07:49 | (unrelated sample) |
| ZZZZZZ | 1X200601.D | 09/29/22 | 18:18 | 08:12 | (unrelated sample) |
| JD52507-22 | 1X200602.D | 09/29/22 | 18:41 | 08:35 | MW-16-100 |
| ZZZZZZ | 1X200603.D | 09/29/22 | 19:04 | 08:58 | (unrelated sample) |
| ZZZZZZ | 1X200604.D | 09/29/22 | 19:28 | 09:22 | (unrelated sample) |
| ZZZZZZ | 1X200605.D | 09/29/22 | 19:51 | 09:45 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Sample:** | V1X8637-BFB | **Injection Date:** | 09/29/22 |
| **Lab File ID:** | 1X200580.D | **Injection Time:** | 10:06 |
| **Instrument ID:** | GCMS1X | | |

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| ZZZZZZ | 1X200606.D | 09/29/22 | 20:14 | 10:08 | (unrelated sample) |
| ZZZZZZ | 1X200607.D | 09/29/22 | 20:37 | 10:31 | (unrelated sample) |
| ZZZZZZ | 1X200608.D | 09/29/22 | 21:01 | 10:55 | (unrelated sample) |
| ZZZZZZ | 1X200609.D | 09/29/22 | 21:24 | 11:18 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2A9511-BFB
**Lab File ID:** 2A218780.D
**Instrument ID:** GCMS2A
**Injection Date:** 07/31/22
**Injection Time:** 16:50

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 75120 | 25.4 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 147328 | 49.8 | | Pass |
| 95 | Base peak, 100% relative abundance | 295616 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 20757 | 7.02 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 260096 | 88.0 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 19904 | 6.73 | (7.65) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 248768 | 84.2 | (95.6) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 16468 | 5.57 | (6.62) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2A9511-IC9511 | 2A218781.D | 07/31/22 | 17:23 | 00:33 | Initial cal 0.2 |
| V2A9511-IC9511 | 2A218782.D | 07/31/22 | 17:51 | 01:01 | Initial cal 0.5 |
| V2A9511-IC9511 | 2A218783.D | 07/31/22 | 18:19 | 01:29 | Initial cal 1 |
| V2A9511-IC9511 | 2A218784.D | 07/31/22 | 18:48 | 01:58 | Initial cal 2 |
| V2A9511-IC9511 | 2A218785.D | 07/31/22 | 19:16 | 02:26 | Initial cal 4 |
| V2A9511-IC9511 | 2A218786.D | 07/31/22 | 19:44 | 02:54 | Initial cal 8 |
| V2A9511-IC9511 | 2A218787.D | 07/31/22 | 20:13 | 03:23 | Initial cal 20 |
| V2A9511-ICC9511 | 2A218788.D | 07/31/22 | 20:41 | 03:51 | Initial cal 50 |
| V2A9511-IC9511 | 2A218789.D | 07/31/22 | 21:09 | 04:19 | Initial cal 100 |
| V2A9511-IC9511 | 2A218790.D | 07/31/22 | 21:38 | 04:48 | Initial cal 200 |
| V2A9511-ICV9511 | 2A218793.D | 07/31/22 | 23:03 | 06:13 | Initial cal verification 50 |
| V2A9511-ICV9511 | 2A218794.D | 07/31/22 | 23:31 | 06:41 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2A9581-BFB
**Lab File ID:** 2A220390.D
**Instrument ID:** GCMS2A
**Injection Date:** 09/29/22
**Injection Time:** 09:13

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 69155 | 21.8 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 151467 | 47.7 | | Pass |
| 95 | Base peak, 100% relative abundance | 317269 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 20589 | 6.49 | | Pass |
| 173 | Less than 2.0% of mass 174 | 687 | 0.22 | (0.26) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 267157 | 84.2 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 19184 | 6.05 | (7.18) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 259349 | 81.7 | (97.1) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 16789 | 5.29 | (6.47) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2A9581-CC9511 | 2A220390.D | 09/29/22 | 09:13 | 00:00 | Continuing cal 20 |
| V2A9581-BS | 2A220392.D | 09/29/22 | 10:19 | 01:06 | Blank Spike |
| V2A9581-MB | 2A220394.D | 09/29/22 | 11:16 | 02:03 | Method Blank |
| JD50917-15 | 2A220395.D | 09/29/22 | 11:44 | 02:31 | (used for QC only; not part of job JD52507) |
| ZZZZZZ | 2A220396.D | 09/29/22 | 12:13 | 03:00 | (unrelated sample) |
| ZZZZZZ | 2A220397.D | 09/29/22 | 12:42 | 03:29 | (unrelated sample) |
| JD52507-3 | 2A220398.D | 09/29/22 | 13:11 | 03:58 | MW-5-40 |
| ZZZZZZ | 2A220399.D | 09/29/22 | 13:40 | 04:27 | (unrelated sample) |
| JD50917-15MS | 2A220400.D | 09/29/22 | 14:08 | 04:55 | Matrix Spike |
| JD50917-15MSD | 2A220401.D | 09/29/22 | 14:37 | 05:24 | Matrix Spike Duplicate |
| ZZZZZZ | 2A220402.D | 09/29/22 | 15:06 | 05:53 | (unrelated sample) |
| ZZZZZZ | 2A220403.D | 09/29/22 | 15:35 | 06:22 | (unrelated sample) |
| ZZZZZZ | 2A220405.D | 09/29/22 | 16:32 | 07:19 | (unrelated sample) |
| ZZZZZZ | 2A220406.D | 09/29/22 | 17:00 | 07:47 | (unrelated sample) |
| ZZZZZZ | 2A220407.D | 09/29/22 | 17:29 | 08:16 | (unrelated sample) |
| ZZZZZZ | 2A220409.D | 09/29/22 | 18:27 | 09:14 | (unrelated sample) |
| ZZZZZZ | 2A220410.D | 09/29/22 | 18:56 | 09:43 | (unrelated sample) |
| ZZZZZZ | 2A220411.D | 09/29/22 | 19:24 | 10:11 | (unrelated sample) |
| ZZZZZZ | 2A220412.D | 09/29/22 | 19:53 | 10:40 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2A9583-BFB
**Lab File ID:** 2A220438.D
**Instrument ID:** GCMS2A
**Injection Date:** 09/30/22
**Injection Time:** 09:16

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 80456 | 21.7 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 180032 | 48.5 | | Pass |
| 95 | Base peak, 100% relative abundance | 371435 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 25032 | 6.74 | | Pass |
| 173 | Less than 2.0% of mass 174 | 1906 | 0.51 | (0.60) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 315563 | 85.0 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 24317 | 6.55 | (7.71) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 310720 | 83.7 | (98.5) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 20520 | 5.52 | (6.60) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2A9583-CC9511 | 2A220438.D | 09/30/22 | 09:16 | 00:00 | Continuing cal 20 |
| V2A9583-BS | 2A220440.D | 09/30/22 | 10:21 | 01:05 | Blank Spike |
| V2A9583-MB | 2A220442.D | 09/30/22 | 11:18 | 02:02 | Method Blank |
| JD52507-12 | 2A220444.D | 09/30/22 | 12:15 | 02:59 | MW-50-160D |
| JD52507-13 | 2A220446.D | 09/30/22 | 13:12 | 03:56 | MW-092022 |
| JD52514-12 | 2A220447.D | 09/30/22 | 13:40 | 04:24 | (used for QC only; not part of job JD52507) |
| JD52514-12 | 2A220449.D | 09/30/22 | 14:37 | 05:21 | (used for QC only; not part of job JD52507) |
| ZZZZZZ | 2A220450.D | 09/30/22 | 15:06 | 05:50 | (unrelated sample) |
| JD52514-12MS | 2A220451.D | 09/30/22 | 15:35 | 06:19 | Matrix Spike |
| JD52514-12MSD | 2A220452.D | 09/30/22 | 16:03 | 06:47 | Matrix Spike Duplicate |
| ZZZZZZ | 2A220454.D | 09/30/22 | 17:01 | 07:45 | (unrelated sample) |
| ZZZZZZ | 2A220455.D | 09/30/22 | 17:30 | 08:14 | (unrelated sample) |
| ZZZZZZ | 2A220456.D | 09/30/22 | 17:58 | 08:42 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2V3747-BFB
**Lab File ID:** 2V92136.D
**Instrument ID:** GCMS2V
**Injection Date:** 09/11/22
**Injection Time:** 14:53

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 27517 | 20.1 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 71051 | 51.9 | | Pass |
| 95 | Base peak, 100% relative abundance | 136912 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 9133 | 6.67 | | Pass |
| 173 | Less than 2.0% of mass 174 | 1406 | 1.03 | (1.02) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 137259 | 100.3 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 10650 | 7.78 | (7.76) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 136979 | 100.0 | (99.8) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 9176 | 6.70 | (6.70) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2V3747-IC3747 | 2V92138.D | 09/11/22 | 15:36 | 00:43 | Initial cal 0.2 |
| V2V3747-IC3747 | 2V92140.D | 09/11/22 | 16:05 | 01:12 | Initial cal 0.5 |
| V2V3747-IC3747 | 2V92142.D | 09/11/22 | 16:35 | 01:42 | Initial cal 1 |
| V2V3747-IC3747 | 2V92144.D | 09/11/22 | 17:04 | 02:11 | Initial cal 2 |
| V2V3747-IC3747 | 2V92146.D | 09/11/22 | 17:33 | 02:40 | Initial cal 4 |
| V2V3747-IC3747 | 2V92148.D | 09/11/22 | 18:02 | 03:09 | Initial cal 8 |
| V2V3747-IC3747 | 2V92150.D | 09/11/22 | 18:32 | 03:39 | Initial cal 20 |
| V2V3747-ICC3747 | 2V92152.D | 09/11/22 | 19:01 | 04:08 | Initial cal 50 |
| V2V3747-IC3747 | 2V92154.D | 09/11/22 | 19:30 | 04:37 | Initial cal 100 |
| V2V3747-IC3747 | 2V92156.D | 09/11/22 | 20:00 | 05:07 | Initial cal 200 |
| V2V3747-ICV3747 | 2V92162.D | 09/11/22 | 21:28 | 06:35 | Initial cal verification 50 |
| V2V3747-ICV3747 | 2V92164.D | 09/11/22 | 21:57 | 07:04 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2V3773-BFB
**Lab File ID:** 2V92880.D
**Instrument ID:** GCMS2V
**Injection Date:** 09/27/22
**Injection Time:** 21:00

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 23805 | 22.1 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 58853 | 54.6 | | Pass |
| 95 | Base peak, 100% relative abundance | 107864 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 7368 | 6.83 | | Pass |
| 173 | Less than 2.0% of mass 174 | 1322 | 1.23 | (1.26) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 105272 | 97.6 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 8354 | 7.74 | (7.94) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 105992 | 98.3 | (100.7) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 7017 | 6.51 | (6.62) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2V3773-CC3747 | 2V92880.D | 09/27/22 | 21:00 | 00:00 | Continuing cal 50 |
| V2V3773-BS | 2V92882.D | 09/27/22 | 21:47 | 00:47 | Blank Spike |
| V2V3773-MB | 2V92884.D | 09/27/22 | 22:33 | 01:33 | Method Blank |
| JD52507-6 | 2V92885.D | 09/27/22 | 22:57 | 01:57 | EXB-10 |
| JD52507-6MS | 2V92886.D | 09/27/22 | 23:20 | 02:20 | Matrix Spike |
| JD52507-6MSD | 2V92887.D | 09/27/22 | 23:43 | 02:43 | Matrix Spike Duplicate |
| JD52507-2 | 2V92889.D | 09/28/22 | 00:30 | 03:30 | EB-091922 |
| ZZZZZZ | 2V92890.D | 09/28/22 | 00:53 | 03:53 | (unrelated sample) |
| JD52507-1 | 2V92891.D | 09/28/22 | 01:16 | 04:16 | EXB-9 |
| JD52507-3 | 2V92892.D | 09/28/22 | 01:39 | 04:39 | MW-5-40 |
| JD52507-4 | 2V92893.D | 09/28/22 | 02:03 | 05:03 | MW-5-25 |
| JD52507-5 | 2V92894.D | 09/28/22 | 02:26 | 05:26 | MW-8B |
| JD52507-7 | 2V92895.D | 09/28/22 | 02:49 | 05:49 | MW-32B |
| ZZZZZZ | 2V92899.D | 09/28/22 | 04:22 | 07:22 | (unrelated sample) |
| ZZZZZZ | 2V92900.D | 09/28/22 | 04:45 | 07:45 | (unrelated sample) |
| ZZZZZZ | 2V92901.D | 09/28/22 | 05:09 | 08:09 | (unrelated sample) |
| ZZZZZZ | 2V92902.D | 09/28/22 | 05:32 | 08:32 | (unrelated sample) |
| ZZZZZZ | 2V92903.D | 09/28/22 | 05:55 | 08:55 | (unrelated sample) |
| ZZZZZZ | 2V92904.D | 09/28/22 | 06:18 | 09:18 | (unrelated sample) |
| ZZZZZZ | 2V92905.D | 09/28/22 | 06:42 | 09:42 | (unrelated sample) |
| ZZZZZZ | 2V92906.D | 09/28/22 | 07:05 | 10:05 | (unrelated sample) |
| ZZZZZZ | 2V92907.D | 09/28/22 | 07:28 | 10:28 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2V3777-BFB
**Lab File ID:** 2V93000.D
**Instrument ID:** GCMS2V
**Injection Date:** 09/29/22
**Injection Time:** 21:38

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 24531 | 22.8 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 58573 | 54.4 | | Pass |
| 95 | Base peak, 100% relative abundance | 107768 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 7341 | 6.81 | | Pass |
| 173 | Less than 2.0% of mass 174 | 1002 | 0.93 | (0.93) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 107731 | 100.0 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 8516 | 7.90 | (7.90) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 107051 | 99.3 | (99.4) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 6955 | 6.45 | (6.50) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2V3777-CC3747 | 2V93000.D | 09/29/22 | 21:38 | 00:00 | Continuing cal 50 |
| V2V3777-BS | 2V93002.D | 09/29/22 | 22:25 | 00:47 | Blank Spike |
| V2V3777-MB | 2V93004.D | 09/29/22 | 23:11 | 01:33 | Method Blank |
| JD52507-10 | 2V93005.D | 09/29/22 | 23:35 | 01:57 | MW-46-72C |
| JD52507-10MS | 2V93006.D | 09/29/22 | 23:58 | 02:20 | Matrix Spike |
| JD52507-10MSD | 2V93007.D | 09/30/22 | 00:21 | 02:43 | Matrix Spike Duplicate |
| JD52507-14 | 2V93009.D | 09/30/22 | 01:08 | 03:30 | EB-092022 |
| JD52507-23 | 2V93010.D | 09/30/22 | 01:31 | 03:53 | EB-092222 |
| JD52507-33 | 2V93011.D | 09/30/22 | 01:54 | 04:16 | EB-092222 |
| JD52507-36 | 2V93012.D | 09/30/22 | 02:17 | 04:39 | TRIP BLANK |
| JD52507-9 | 2V93013.D | 09/30/22 | 02:41 | 05:03 | MW-36B |
| JD52507-11 | 2V93014.D | 09/30/22 | 03:04 | 05:26 | MW-46-43C |
| JD52507-12 | 2V93015.D | 09/30/22 | 03:27 | 05:49 | MW-50-160D |
| JD52507-13 | 2V93016.D | 09/30/22 | 03:50 | 06:12 | MW-092022 |
| JD52507-24 | 2V93017.D | 09/30/22 | 04:14 | 06:36 | MW-18A |
| JD52507-25 | 2V93018.D | 09/30/22 | 04:37 | 06:59 | MW-8-40 |
| JD52507-26 | 2V93019.D | 09/30/22 | 05:00 | 07:22 | MW-22B |
| JD52507-27 | 2V93020.D | 09/30/22 | 05:23 | 07:45 | MW-1B |
| JD52507-28 | 2V93021.D | 09/30/22 | 05:46 | 08:08 | MW-092222 |
| JD52507-29 | 2V93022.D | 09/30/22 | 06:09 | 08:31 | MW-2B |
| JD52507-30 | 2V93023.D | 09/30/22 | 06:32 | 08:54 | MW-3B |
| JD52507-31 | 2V93024.D | 09/30/22 | 06:55 | 09:17 | MW-5B |

# Instrument Performance Check (BFB)



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** V2V3782-BFB
**Lab File ID:** 2V93125.D
**Instrument ID:** GCMS2V
**Injection Date:** 10/03/22
**Injection Time:** 11:49

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 25920 | 22.2 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 63240 | 54.3 | | Pass |
| 95 | Base peak, 100% relative abundance | 116496 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 7982 | 6.85 | | Pass |
| 173 | Less than 2.0% of mass 174 | 1457 | 1.25 | (1.30) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 111837 | 96.0 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 9089 | 7.80 | (8.13) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 110755 | 95.1 | (99.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 7611 | 6.53 | (6.87) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| V2V3782-CC3747 | 2V93125.D | 10/03/22 | 11:49 | 00:00 | Continuing cal 20 |
| V2V3782-BS | 2V93126.D | 10/03/22 | 12:18 | 00:29 | Blank Spike |
| V2V3782-MB | 2V93128.D | 10/03/22 | 13:04 | 01:15 | Method Blank |
| ZZZZZZ | 2V93129.D | 10/03/22 | 13:28 | 01:39 | (unrelated sample) |
| JD52507-31 | 2V93130.D | 10/03/22 | 13:51 | 02:02 | MW-5B |
| JD52507-30 | 2V93131.D | 10/03/22 | 14:14 | 02:25 | MW-3B |
| ZZZZZZ | 2V93132.D | 10/03/22 | 14:37 | 02:48 | (unrelated sample) |
| JD52730-7 | 2V93134.D | 10/03/22 | 15:24 | 03:35 | (used for QC only; not part of job JD52507) |
| ZZZZZZ | 2V93135.D | 10/03/22 | 15:47 | 03:58 | (unrelated sample) |
| JD52507-32 | 2V93136.D | 10/03/22 | 16:10 | 04:21 | MW-17-40 |
| JD52507-34 | 2V93137.D | 10/03/22 | 16:33 | 04:44 | MW-26A |
| ZZZZZZ | 2V93138.D | 10/03/22 | 16:57 | 05:08 | (unrelated sample) |
| ZZZZZZ | 2V93139.D | 10/03/22 | 17:20 | 05:31 | (unrelated sample) |
| JD52730-7MS | 2V93140.D | 10/03/22 | 17:43 | 05:54 | Matrix Spike |
| JD52730-7MSD | 2V93141.D | 10/03/22 | 18:07 | 06:18 | Matrix Spike Duplicate |
| JD52507-30 | 2V93142.D | 10/03/22 | 18:30 | 06:41 | MW-3B |
| ZZZZZZ | 2V93144.D | 10/03/22 | 19:16 | 07:27 | (unrelated sample) |
| ZZZZZZ | 2V93145.D | 10/03/22 | 19:39 | 07:50 | (unrelated sample) |
| JD52507-35 | 2V93146.D | 10/03/22 | 20:03 | 08:14 | MW-25A |
| ZZZZZZ | 2V93147.D | 10/03/22 | 20:26 | 08:37 | (unrelated sample) |
| ZZZZZZ | 2V93148.D | 10/03/22 | 20:49 | 09:00 | (unrelated sample) |
| ZZZZZZ | 2V93149.D | 10/03/22 | 21:13 | 09:24 | (unrelated sample) |
| ZZZZZZ | 2V93150.D | 10/03/22 | 21:36 | 09:47 | (unrelated sample) |
| ZZZZZZ | 2V93151.D | 10/03/22 | 21:59 | 10:10 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Sample:** | V2V3782-BFB | **Injection Date:** | 10/03/22 |
| **Lab File ID:** | 2V93125.D | **Injection Time:** | 11:49 |
| **Instrument ID:** | GCMS2V | | |

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| ZZZZZZ | 2V93152.D | 10/03/22 | 22:23 | 10:34 | (unrelated sample) |

# Instrument Performance Check (BFB)



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** VL10355-BFB
**Lab File ID:** L342967.D
**Instrument ID:** GCMSL
**Injection Date:** 06/15/22
**Injection Time:** 16:00

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 15125 | 15.4 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 48661 | 49.4 | | Pass |
| 95 | Base peak, 100% relative abundance | 98445 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 6625 | 6.73 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 66648 | 67.7 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 5157 | 5.24 | (7.74) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 64099 | 65.1 | (96.2) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 3835 | 3.90 | (5.98) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VL10355-IC10355 | L342968.D | 06/15/22 | 16:25 | 00:25 | Initial cal 0.2 |
| VL10355-IC10355 | L342969.D | 06/15/22 | 16:48 | 00:48 | Initial cal 0.5 |
| VL10355-IC10355 | L342970.D | 06/15/22 | 17:11 | 01:11 | Initial cal 1 |
| VL10355-IC10355 | L342971.D | 06/15/22 | 17:35 | 01:35 | Initial cal 2 |
| VL10355-IC10355 | L342972.D | 06/15/22 | 17:58 | 01:58 | Initial cal 4 |
| VL10355-IC10355 | L342973.D | 06/15/22 | 18:22 | 02:22 | Initial cal 8 |
| VL10355-IC10355 | L342974.D | 06/15/22 | 18:45 | 02:45 | Initial cal 20 |
| VL10355-ICC10355 | L342975.D | 06/15/22 | 19:09 | 03:09 | Initial cal 50 |
| VL10355-IC10355 | L342976.D | 06/15/22 | 19:32 | 03:32 | Initial cal 100 |
| VL10355-IC10355 | L342977.D | 06/15/22 | 19:56 | 03:56 | Initial cal 200 |
| VL10355-ICV10355 | L342980.D | 06/15/22 | 21:06 | 05:06 | Initial cal verification 50 |
| VL10355-ICV10355 | L342981.D | 06/15/22 | 21:29 | 05:29 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Sample:** | VL10355-BFB2 | **Injection Date:** | 06/16/22 |
| **Lab File ID:** | L342984.D | **Injection Time:** | 09:43 |
| **Instrument ID:** | GCMSL | | |

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 14743 | 15.8 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 47061 | 50.6 | | Pass |
| 95 | Base peak, 100% relative abundance | 93093 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 6458 | 6.94 | | Pass |
| 173 | Less than 2.0% of mass 174 | 176 | 0.19 | (0.27) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 64179 | 68.9 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 4737 | 5.09 | (7.38) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 62803 | 67.5 | (97.9) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 4165 | 4.47 | (6.63) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VL10355-ICV10355 | L342985.D | 06/16/22 | 10:06 | 00:23 | Initial cal verification 50 |

# Instrument Performance Check (BFB)



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Sample:** VL10519-BFB
**Lab File ID:** L347829.D
**Instrument ID:** GCMSL
**Injection Date:** 10/04/22
**Injection Time:** 10:21

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 14688 | 15.4 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 43632 | 45.8 | | Pass |
| 95 | Base peak, 100% relative abundance | 95365 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 6660 | 6.98 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 120.0% of mass 95 | 68787 | 72.1 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 5286 | 5.54 | (7.68) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 67405 | 70.7 | (98.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 4530 | 4.75 | (6.72) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VL10519-CC10355 | L347829.D | 10/04/22 | 10:21 | 00:00 | Continuing cal 20 |
| VL10519-BS | L347831.D | 10/04/22 | 11:19 | 00:58 | Blank Spike |
| VL10519-BSD | L347832.D | 10/04/22 | 11:42 | 01:21 | Blank Spike Duplicate |
| VL10519-MB | L347834.D | 10/04/22 | 12:29 | 02:08 | Method Blank |
| JD52507-37 | L347836.D | 10/04/22 | 13:25 | 03:04 | EXB-11 |
| JD52507-37 | L347837.D | 10/04/22 | 13:48 | 03:27 | EXB-11 |
| ZZZZZZ | L347838.D | 10/04/22 | 14:11 | 03:50 | (unrelated sample) |
| ZZZZZZ | L347839.D | 10/04/22 | 14:34 | 04:13 | (unrelated sample) |
| ZZZZZZ | L347840.D | 10/04/22 | 14:58 | 04:37 | (unrelated sample) |
| ZZZZZZ | L347841.D | 10/04/22 | 15:21 | 05:00 | (unrelated sample) |
| ZZZZZZ | L347842.D | 10/04/22 | 15:44 | 05:23 | (unrelated sample) |
| ZZZZZZ | L347843.D | 10/04/22 | 16:07 | 05:46 | (unrelated sample) |
| ZZZZZZ | L347844.D | 10/04/22 | 16:31 | 06:10 | (unrelated sample) |
| ZZZZZZ | L347845.D | 10/04/22 | 16:54 | 06:33 | (unrelated sample) |
| ZZZZZZ | L347846.D | 10/04/22 | 17:17 | 06:56 | (unrelated sample) |
| JD52507-37MS | L347847.D | 10/04/22 | 17:40 | 07:19 | Matrix Spike |
| JD52507-37MSD | L347848.D | 10/04/22 | 18:03 | 07:42 | Matrix Spike Duplicate |
| ZZZZZZ | L347850.D | 10/04/22 | 18:50 | 08:29 | (unrelated sample) |
| ZZZZZZ | L347851.D | 10/04/22 | 19:13 | 08:52 | (unrelated sample) |
| ZZZZZZ | L347852.D | 10/04/22 | 19:36 | 09:15 | (unrelated sample) |
| ZZZZZZ | L347853.D | 10/04/22 | 20:00 | 09:39 | (unrelated sample) |
| ZZZZZZ | L347854.D | 10/04/22 | 20:23 | 10:02 | (unrelated sample) |
| ZZZZZZ | L347858.D | 10/04/22 | 21:56 | 11:35 | (unrelated sample) |

# Internal Standard Area Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V1A9698-CC9688 | **Injection Date:** | 09/27/22 |
| **Lab File ID:** | 1A226430.D | **Injection Time:** | 09:36 |
| **Instrument ID:** | GCMS1A | **Method:** | SW846 8260D |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| Check Std | 232944 | 2.92 | 525323 | 3.93 | 769721 | 4.40 | 668715 | 6.29 | 274586 | 7.84 |
| Upper Limit [a] | 465888 | 3.42 | 1050646 | 4.43 | 1539442 | 4.90 | 1337430 | 6.79 | 549172 | 8.34 |
| Lower Limit [b] | 116472 | 2.42 | 262662 | 3.43 | 384861 | 3.90 | 334358 | 5.79 | 137293 | 7.34 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| V1A9698-BS | 242635 | 2.92 | 531290 | 3.93 | 787935 | 4.40 | 712152 | 6.29 | 298500 | 7.84 |
| V1A9698-MB | 249114 | 2.91 | 535409 | 3.93 | 753518 | 4.40 | 635616 | 6.29 | 258091 | 7.84 |
| ZZZZZZ | 266707 | 2.92 | 602051 | 3.94 | 834602 | 4.40 | 688405 | 6.29 | 258812 | 7.84 |
| ZZZZZZ | 264279 | 2.92 | 536163 | 3.93 | 770625 | 4.40 | 651600 | 6.29 | 260605 | 7.84 |
| ZZZZZZ | 241445 | 2.92 | 523466 | 3.94 | 741568 | 4.40 | 622060 | 6.29 | 254607 | 7.84 |
| JD52310-3 | 286961 | 2.92 | 515922 | 3.93 | 740809 | 4.40 | 632399 | 6.29 | 255917 | 7.84 |
| ZZZZZZ | 269889 | 2.92 | 507564 | 3.93 | 725552 | 4.40 | 612909 | 6.29 | 248013 | 7.84 |
| ZZZZZZ | 261272 | 2.92 | 502117 | 3.94 | 730666 | 4.40 | 620494 | 6.29 | 249056 | 7.84 |
| ZZZZZZ | 273802 | 2.92 | 515166 | 3.94 | 738688 | 4.40 | 626061 | 6.29 | 250723 | 7.84 |
| ZZZZZZ | 274931 | 2.92 | 506533 | 3.94 | 756373 | 4.40 | 672074 | 6.29 | 309922 | 7.84 |
| JD52310-3MS | 284980 | 2.92 | 569489 | 3.93 | 838923 | 4.40 | 750403 | 6.29 | 310518 | 7.84 |
| JD52310-3MSD | 285954 | 2.92 | 543729 | 3.94 | 806911 | 4.40 | 721884 | 6.29 | 301796 | 7.84 |
| ZZZZZZ | 283533 | 2.92 | 524638 | 3.94 | 752409 | 4.40 | 646928 | 6.29 | 257211 | 7.84 |
| ZZZZZZ | 280488 | 2.92 | 535341 | 3.94 | 770208 | 4.40 | 660241 | 6.29 | 266541 | 7.84 |
| ZZZZZZ | 272999 | 2.92 | 514984 | 3.94 | 731180 | 4.40 | 627881 | 6.29 | 250235 | 7.84 |
| JD52507-15 | 261109 | 2.92 | 500749 | 3.94 | 723474 | 4.40 | 615811 | 6.29 | 245276 | 7.84 |
| JD52507-16 | 276705 | 2.91 | 496183 | 3.93 | 708608 | 4.40 | 615191 | 6.29 | 244501 | 7.84 |
| JD52507-17 | 262948 | 2.92 | 496747 | 3.94 | 710029 | 4.40 | 614276 | 6.29 | 252127 | 7.84 |
| JD52507-18 | 262469 | 2.91 | 468253 | 3.94 | 700339 | 4.40 | 600997 | 6.29 | 245936 | 7.84 |
| JD52507-20 | 251570 | 2.92 | 489302 | 3.94 | 702569 | 4.40 | 588630 | 6.29 | 227750 | 7.84 |
| JD52507-21 | 238785 | 2.92 | 476766 | 3.93 | 711250 | 4.40 | 597814 | 6.29 | 234003 | 7.84 |
| ZZZZZZ | 249378 | 2.92 | 500089 | 3.94 | 711921 | 4.40 | 600324 | 6.29 | 285893 | 7.84 |

**IS 1** = Tert Butyl Alcohol-D9
**IS 2** = Pentafluorobenzene
**IS 3** = 1,4-Difluorobenzene
**IS 4** = Chlorobenzene-D5
**IS 5** = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

# Internal Standard Area Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V1A9705-CC9688 | **Injection Date:** | 09/30/22 |
| **Lab File ID:** | 1A226605.D | **Injection Time:** | 10:42 |
| **Instrument ID:** | GCMS1A | **Method:** | SW846 8260D |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| Check Std | 253903 | 2.92 | 489763 | 3.93 | 719250 | 4.40 | 626257 | 6.29 | 250966 | 7.84 |
| Upper Limit [a] | 507806 | 3.42 | 979526 | 4.43 | 1438500 | 4.90 | 1252514 | 6.79 | 501932 | 8.34 |
| Lower Limit [b] | 126952 | 2.42 | 244882 | 3.43 | 359625 | 3.90 | 313129 | 5.79 | 125483 | 7.34 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| V1A9704-BS2 | 217845 | 2.92 | 456630 | 3.93 | 689951 | 4.40 | 609942 | 6.29 | 242381 | 7.84 |
| V1A9705-BS | 217845 | 2.92 | 456630 | 3.93 | 689951 | 4.40 | 609942 | 6.29 | 242381 | 7.84 |
| V1A9704-MB2 | 205892 | 2.92 | 465545 | 3.94 | 656905 | 4.40 | 551295 | 6.29 | 213217 | 7.84 |
| V1A9705-MB | 205892 | 2.92 | 465545 | 3.94 | 656905 | 4.40 | 551295 | 6.29 | 213217 | 7.84 |
| JD52667-3DUP | 194196 | 2.92 | 453593 | 3.93 | 653762 | 4.40 | 545527 | 6.29 | 210649 | 7.84 |
| ZZZZZZ | 197210 | 2.92 | 446452 | 3.94 | 652165 | 4.40 | 550236 | 6.29 | 210128 | 7.84 |
| ZZZZZZ | 194053 | 2.92 | 425898 | 3.94 | 619474 | 4.40 | 527610 | 6.29 | 203202 | 7.84 |
| JD52507-10 [c] | 207860 | 2.92 | 419297 | 3.93 | 424623 | 4.40 | 551439 | 6.29 | 209853 | 7.84 |
| JD52507-8 | 213080 | 2.91 | 441314 | 3.93 | 660227 | 4.40 | 551414 | 6.29 | 206661 | 7.84 |
| ZZZZZZ | 227741 | 2.92 | 443054 | 3.93 | 629567 | 4.40 | 532756 | 6.29 | 200732 | 7.84 |
| ZZZZZZ | 208653 | 2.91 | 433787 | 3.93 | 627445 | 4.40 | 528809 | 6.29 | 200469 | 7.84 |
| JD52507-8 | 224579 | 2.92 | 425197 | 3.93 | 615758 | 4.40 | 523619 | 6.29 | 180153 | 7.84 |
| JD52507-10 | 223540 | 2.92 | 426481 | 3.93 | 624692 | 4.40 | 528577 | 6.29 | 200139 | 7.84 |
| JD52624-3 | 208825 | 2.91 | 429548 | 3.93 | 619885 | 4.40 | 523613 | 6.29 | 196829 | 7.84 |
| JD52624-3MS | 170612 | 2.91 | 448671 | 3.93 | 675981 | 4.40 | 606677 | 6.29 | 243018 | 7.84 |
| JD52624-3MSD | 185202 | 2.92 | 476113 | 3.93 | 689311 | 4.40 | 623825 | 6.29 | 243269 | 7.84 |
| ZZZZZZ | 196636 | 2.92 | 457386 | 3.93 | 658642 | 4.40 | 549952 | 6.29 | 210435 | 7.84 |
| ZZZZZZ | 191519 | 2.92 | 461495 | 3.94 | 666744 | 4.40 | 552093 | 6.29 | 208076 | 7.84 |
| ZZZZZZ | 198535 | 2.91 | 427088 | 3.94 | 620369 | 4.40 | 509505 | 6.29 | 190656 | 7.84 |
| ZZZZZZ | 203393 | 2.92 | 443734 | 3.94 | 635832 | 4.40 | 530788 | 6.29 | 198112 | 7.84 |
| ZZZZZZ | 188846 | 2.92 | 431573 | 3.94 | 631403 | 4.40 | 531955 | 6.29 | 197960 | 7.84 |
| ZZZZZZ | 189042 | 2.92 | 419504 | 3.93 | 627063 | 4.40 | 528992 | 6.29 | 198538 | 7.84 |
| ZZZZZZ | 176093 | 2.92 | 424595 | 3.94 | 611525 | 4.40 | 508256 | 6.29 | 194184 | 7.84 |
| ZZZZZZ | 188757 | 2.92 | 432913 | 3.94 | 638230 | 4.40 | 532408 | 6.29 | 199100 | 7.84 |
| ZZZZZZ | 188459 | 2.92 | 440188 | 3.93 | 639215 | 4.40 | 565832 | 6.29 | 243296 | 7.84 |

**IS 1** = Tert Butyl Alcohol-D9
**IS 2** = Pentafluorobenzene
**IS 3** = 1,4-Difluorobenzene
**IS 4** = Chlorobenzene-D5
**IS 5** = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Dilution required due to high concentration of target compound.

# Internal Standard Area Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V1X8637-CC8636 | **Injection Date:** | 09/29/22 |
| **Lab File ID:** | 1X200580.D | **Injection Time:** | 10:06 |
| **Instrument ID:** | GCMS1X | **Method:** | SW846 8260D |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| Check Std | 400214 | 2.43 | 434580 | 3.50 | 604917 | 4.00 | 559026 | 6.07 | 280010 | 7.88 |
| Upper Limit [a] | 800428 | 2.93 | 869160 | 4.00 | 1209834 | 4.50 | 1118052 | 6.57 | 560020 | 8.38 |
| Lower Limit [b] | 200107 | 1.93 | 217290 | 3.00 | 302459 | 3.50 | 279513 | 5.57 | 140005 | 7.38 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| V1X8637-BS | 394035 | 2.44 | 438607 | 3.51 | 604941 | 4.00 | 565715 | 6.07 | 283962 | 7.88 |
| V1X8637-MB | 360446 | 2.43 | 420735 | 3.51 | 579189 | 4.00 | 530291 | 6.07 | 264239 | 7.88 |
| JD52594-1 | 358544 | 2.44 | 417566 | 3.51 | 579580 | 4.00 | 534214 | 6.07 | 268785 | 7.88 |
| JD52507-18 | 347512 | 2.44 | 407891 | 3.51 | 569573 | 4.00 | 522911 | 6.07 | 259572 | 7.88 |
| ZZZZZZ | 366099 | 2.44 | 423514 | 3.51 | 586823 | 4.00 | 538242 | 6.07 | 266025 | 7.88 |
| ZZZZZZ | 365662 | 2.43 | 417897 | 3.50 | 574956 | 4.00 | 534390 | 6.07 | 264983 | 7.88 |
| ZZZZZZ | 389735 | 2.44 | 423353 | 3.51 | 589389 | 4.00 | 539399 | 6.07 | 269206 | 7.88 |
| ZZZZZZ | 371402 | 2.44 | 431653 | 3.51 | 597668 | 4.00 | 547672 | 6.07 | 274145 | 7.88 |
| ZZZZZZ | 369524 | 2.44 | 411551 | 3.51 | 572682 | 4.00 | 528561 | 6.07 | 261637 | 7.88 |
| ZZZZZZ | 361898 | 2.44 | 409196 | 3.51 | 576447 | 4.00 | 528013 | 6.07 | 262640 | 7.88 |
| ZZZZZZ | 355092 | 2.44 | 407343 | 3.51 | 568846 | 4.00 | 522920 | 6.07 | 257945 | 7.88 |
| ZZZZZZ | 369753 | 2.44 | 420198 | 3.51 | 587484 | 4.00 | 542443 | 6.07 | 268735 | 7.88 |
| ZZZZZZ | 371160 | 2.44 | 412015 | 3.51 | 573514 | 4.00 | 526009 | 6.07 | 261686 | 7.88 |
| JD52594-1MS [c] | 410176 | 2.44 | 439969 | 3.51 | 610638 | 4.00 | 571251 | 6.07 | 282949 | 7.88 |
| JD52594-1MSD [c] | 398841 | 2.44 | 440207 | 3.51 | 602989 | 4.00 | 564501 | 6.07 | 279793 | 7.88 |
| JD52594-1 | 378960 | 2.44 | 433449 | 3.51 | 601122 | 4.00 | 553269 | 6.07 | 273906 | 7.88 |
| JD52507-19 | 395564 | 2.44 | 428853 | 3.51 | 599338 | 4.00 | 549629 | 6.07 | 269583 | 7.88 |
| ZZZZZZ | 366110 | 2.44 | 429110 | 3.51 | 593846 | 4.00 | 547950 | 6.07 | 269784 | 7.88 |
| ZZZZZZ | 362277 | 2.44 | 415954 | 3.51 | 579518 | 4.00 | 530912 | 6.07 | 261527 | 7.88 |
| JD52507-22 | 402834 | 2.44 | 436374 | 3.51 | 605667 | 4.00 | 561581 | 6.07 | 276666 | 7.88 |
| ZZZZZZ | 364260 | 2.44 | 421787 | 3.51 | 586099 | 4.00 | 540168 | 6.07 | 265270 | 7.88 |
| ZZZZZZ | 369414 | 2.44 | 416532 | 3.51 | 574990 | 4.00 | 528489 | 6.07 | 265672 | 7.88 |
| ZZZZZZ | 363037 | 2.44 | 422302 | 3.51 | 582127 | 4.00 | 536648 | 6.07 | 263063 | 7.88 |
| ZZZZZZ | 371077 | 2.44 | 424396 | 3.51 | 590666 | 4.00 | 543860 | 6.07 | 267255 | 7.88 |
| ZZZZZZ | 370046 | 2.44 | 422414 | 3.51 | 587416 | 4.00 | 539787 | 6.07 | 267696 | 7.88 |
| ZZZZZZ | 372267 | 2.44 | 424934 | 3.51 | 578526 | 4.00 | 541681 | 6.07 | 266887 | 7.88 |
| ZZZZZZ | 357517 | 2.44 | 429694 | 3.51 | 586832 | 4.00 | 554122 | 6.07 | 299679 | 7.88 |

**IS 1** = Tert Butyl Alcohol-D9
**IS 2** = Pentafluorobenzene
**IS 3** = 1,4-Difluorobenzene
**IS 4** = Chlorobenzene-D5
**IS 5** = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

# Internal Standard Area Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V1X8637-CC8636 | **Injection Date:** | 09/29/22 |
| **Lab File ID:** | 1X200580.D | **Injection Time:** | 10:06 |
| **Instrument ID:** | GCMS1X | **Method:** | SW846 8260D |

| Lab Sample ID | IS 1 AREA | IS 1 RT | IS 2 AREA | IS 2 RT | IS 3 AREA | IS 3 RT | IS 4 AREA | IS 4 RT | IS 5 AREA | IS 5 RT |
|---|---|---|---|---|---|---|---|---|---|---|

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) (pH= 6) Sample pH did not satisfy field preservation criteria.

# Internal Standard Area Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V2A9581-CC9511 | **Injection Date:** | 09/29/22 |
| **Lab File ID:** | 2A220390.D | **Injection Time:** | 09:13 |
| **Instrument ID:** | GCMS2A | **Method:** | SW846 8260D |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| Check Std | 378078 | 7.24 | 690934 | 9.51 | 1042793 | 10.43 | 969973 | 13.56 | 478807 | 15.89 |
| Upper Limit [a] | 756156 | 7.74 | 1381868 | 10.01 | 2085586 | 10.93 | 1939946 | 14.06 | 957614 | 16.39 |
| Lower Limit [b] | 189039 | 6.74 | 345467 | 9.01 | 521397 | 9.93 | 484987 | 13.06 | 239404 | 15.39 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| V2A9581-BS | 403428 | 7.25 | 713019 | 9.51 | 1075602 | 10.44 | 985341 | 13.56 | 491517 | 15.89 |
| V2A9581-MB | 425003 | 7.25 | 700235 | 9.51 | 1059029 | 10.43 | 1002793 | 13.56 | 483091 | 15.89 |
| JD50917-15 | 432030 | 7.25 | 694751 | 9.51 | 1042349 | 10.43 | 992556 | 13.56 | 468256 | 15.89 |
| ZZZZZZ | 422092 | 7.24 | 699627 | 9.51 | 1052955 | 10.43 | 1002939 | 13.56 | 475618 | 15.89 |
| ZZZZZZ | 433997 | 7.26 | 705039 | 9.51 | 1060451 | 10.43 | 1010401 | 13.56 | 477132 | 15.89 |
| JD52507-3 [c] | 443314 | 7.25 | 682677 | 9.51 | 1029103 | 10.43 | 988712 | 13.56 | 470514 | 15.89 |
| ZZZZZZ | 443314 | 7.25 | 701760 | 9.51 | 1056968 | 10.43 | 1025299 | 13.56 | 484289 | 15.89 |
| JD50917-15MS | 453152 | 7.24 | 714820 | 9.51 | 1074103 | 10.43 | 1002242 | 13.56 | 498946 | 15.89 |
| JD50917-15MSD | 457373 | 7.25 | 719279 | 9.51 | 1082629 | 10.43 | 1014988 | 13.56 | 505297 | 15.89 |
| ZZZZZZ | 475039 | 7.24 | 728386 | 9.51 | 1103266 | 10.43 | 1050499 | 13.56 | 504097 | 15.89 |
| ZZZZZZ | 452813 | 7.25 | 724395 | 9.51 | 1092720 | 10.43 | 1045097 | 13.56 | 501136 | 15.89 |
| ZZZZZZ | 460773 | 7.25 | 723884 | 9.51 | 1096819 | 10.43 | 1053997 | 13.56 | 498054 | 15.89 |
| ZZZZZZ | 464605 | 7.24 | 735028 | 9.51 | 1108429 | 10.43 | 1060237 | 13.56 | 514169 | 15.89 |
| ZZZZZZ | 469254 | 7.25 | 718017 | 9.51 | 1089497 | 10.43 | 1052465 | 13.56 | 505457 | 15.89 |
| ZZZZZZ | 463964 | 7.25 | 723501 | 9.51 | 1094073 | 10.43 | 1061773 | 13.56 | 506566 | 15.89 |
| ZZZZZZ | 454569 | 7.25 | 722979 | 9.51 | 1107115 | 10.43 | 1081678 | 13.56 | 516281 | 15.89 |
| ZZZZZZ | 454692 | 7.24 | 707955 | 9.51 | 1074439 | 10.43 | 1057402 | 13.56 | 502945 | 15.89 |
| ZZZZZZ | 454927 | 7.25 | 721912 | 9.51 | 1109114 | 10.43 | 1087601 | 13.56 | 504606 | 15.89 |

**IS 1** = Tert Butyl Alcohol-D9
**IS 2** = Pentafluorobenzene
**IS 3** = 1,4-Difluorobenzene
**IS 4** = Chlorobenzene-D5
**IS 5** = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Dilution required due to high concentration of target compound.

# Internal Standard Area Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V2A9583-CC9511 | **Injection Date:** | 09/30/22 |
| **Lab File ID:** | 2A220438.D | **Injection Time:** | 09:16 |
| **Instrument ID:** | GCMS2A | **Method:** | SW846 8260D |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| Check Std | 497683 | 7.25 | 738209 | 9.51 | 1143253 | 10.44 | 1159557 | 13.56 | 591306 | 15.89 |
| Upper Limit [a] | 995366 | 7.75 | 1476418 | 10.01 | 2286506 | 10.94 | 2319114 | 14.06 | 1182612 | 16.39 |
| Lower Limit [b] | 248842 | 6.75 | 369105 | 9.01 | 571627 | 9.94 | 579779 | 13.06 | 295653 | 15.39 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| V2A9583-BS | 506821 | 7.25 | 750798 | 9.51 | 1166077 | 10.44 | 1159944 | 13.56 | 604684 | 15.89 |
| V2A9583-MB | 499433 | 7.25 | 738634 | 9.51 | 1157020 | 10.43 | 1184465 | 13.56 | 576964 | 15.89 |
| JD52507-12 | 474861 | 7.25 | 724826 | 9.51 | 1140154 | 10.43 | 1186029 | 13.56 | 573382 | 15.89 |
| JD52507-13 | 491791 | 7.25 | 716367 | 9.51 | 1127838 | 10.43 | 1176716 | 13.56 | 576537 | 15.89 |
| JD52514-12 | 505469 | 7.25 | 732652 | 9.51 | 1148145 | 10.43 | 1199982 | 13.56 | 593514 | 15.89 |
| JD52514-12 | 543649 | 7.25 | 751354 | 9.51 | 1182718 | 10.43 | 1224970 | 13.56 | 611807 | 15.89 |
| ZZZZZZ | 549009 | 7.25 | 722759 | 9.51 | 1136272 | 10.43 | 1196704 | 13.56 | 610216 | 15.89 |
| JD52514-12MS | 536246 | 7.25 | 767509 | 9.51 | 1211541 | 10.43 | 1228623 | 13.56 | 636196 | 15.89 |
| JD52514-12MSD | 531321 | 7.24 | 768609 | 9.51 | 1217767 | 10.43 | 1225838 | 13.56 | 642810 | 15.89 |
| ZZZZZZ | 568422 | 7.25 | 775907 | 9.51 | 1222693 | 10.43 | 1283487 | 13.56 | 648407 | 15.89 |
| ZZZZZZ | 573056 | 7.25 | 761541 | 9.51 | 1206653 | 10.43 | 1267564 | 13.56 | 653344 | 15.89 |
| ZZZZZZ | 587970 | 7.25 | 774608 | 9.51 | 1224916 | 10.43 | 1286824 | 13.56 | 673811 | 15.89 |

**IS 1** = Tert Butyl Alcohol-D9
**IS 2** = Pentafluorobenzene
**IS 3** = 1,4-Difluorobenzene
**IS 4** = Chlorobenzene-D5
**IS 5** = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

# Internal Standard Area Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V2V3773-CC3747 | **Injection Date:** | 09/27/22 |
| **Lab File ID:** | 2V92880.D | **Injection Time:** | 21:00 |
| **Instrument ID:** | GCMS2V | **Method:** | SW846 8260D |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| Check Std | 266188 | 2.32 | 303124 | 3.29 | 422646 | 3.75 | 404640 | 5.73 | 187488 | 7.51 |
| Upper Limit [a] | 532376 | 2.82 | 606248 | 3.79 | 845292 | 4.25 | 809280 | 6.23 | 374976 | 8.01 |
| Lower Limit [b] | 133094 | 1.82 | 151562 | 2.79 | 211323 | 3.25 | 202320 | 5.23 | 93744 | 7.01 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| V2V3773-BS | 269817 | 2.32 | 313434 | 3.29 | 443794 | 3.75 | 423995 | 5.73 | 189090 | 7.51 |
| V2V3773-MB | 254109 | 2.32 | 320623 | 3.29 | 442513 | 3.75 | 399908 | 5.73 | 179762 | 7.51 |
| JD52507-6 | 244634 | 2.32 | 301852 | 3.29 | 416821 | 3.75 | 377006 | 5.73 | 170005 | 7.51 |
| JD52507-6MS | 241451 | 2.32 | 297064 | 3.29 | 417787 | 3.75 | 389047 | 5.73 | 176191 | 7.51 |
| JD52507-6MSD | 252931 | 2.33 | 302300 | 3.29 | 419559 | 3.75 | 400149 | 5.73 | 177571 | 7.51 |
| JD52507-2 | 262754 | 2.32 | 309123 | 3.29 | 430501 | 3.75 | 390501 | 5.73 | 179945 | 7.51 |
| ZZZZZZ | 263385 | 2.32 | 317403 | 3.29 | 436588 | 3.75 | 399335 | 5.73 | 184321 | 7.51 |
| JD52507-1 | 259115 | 2.32 | 304001 | 3.29 | 420891 | 3.75 | 386386 | 5.73 | 173568 | 7.51 |
| JD52507-3 | 263141 | 2.32 | 302819 | 3.29 | 419684 | 3.75 | 387065 | 5.73 | 175763 | 7.50 |
| JD52507-4 | 184804 | 2.32 | 297828 | 3.29 | 405152 | 3.75 | 370486 | 5.73 | 171437 | 7.51 |
| JD52507-5 | 235540 | 2.32 | 296411 | 3.29 | 406433 | 3.75 | 371107 | 5.73 | 171921 | 7.51 |
| JD52507-7 | 245320 | 2.32 | 294732 | 3.29 | 411000 | 3.75 | 373966 | 5.73 | 167973 | 7.51 |
| ZZZZZZ | 236035 | 2.32 | 306836 | 3.29 | 418745 | 3.75 | 375550 | 5.73 | 165630 | 7.50 |
| ZZZZZZ | 255167 | 2.32 | 309990 | 3.29 | 423710 | 3.75 | 390882 | 5.73 | 177282 | 7.51 |
| ZZZZZZ | 242837 | 2.32 | 304289 | 3.29 | 419421 | 3.75 | 381295 | 5.73 | 171271 | 7.51 |
| ZZZZZZ | 248593 | 2.32 | 308944 | 3.29 | 421390 | 3.75 | 390776 | 5.73 | 174616 | 7.51 |
| ZZZZZZ | 243432 | 2.32 | 301033 | 3.29 | 414692 | 3.75 | 381659 | 5.73 | 170595 | 7.51 |
| ZZZZZZ | 234018 | 2.32 | 302682 | 3.29 | 416115 | 3.75 | 375175 | 5.73 | 166370 | 7.50 |
| ZZZZZZ | 252092 | 2.32 | 300030 | 3.29 | 404593 | 3.75 | 377653 | 5.73 | 173133 | 7.51 |
| ZZZZZZ | 233973 | 2.32 | 303645 | 3.29 | 414943 | 3.75 | 377319 | 5.73 | 168665 | 7.51 |
| ZZZZZZ | 237283 | 2.32 | 299104 | 3.29 | 411936 | 3.75 | 375871 | 5.73 | 167159 | 7.50 |

**IS 1** = Tert Butyl Alcohol-D9
**IS 2** = Pentafluorobenzene
**IS 3** = 1,4-Difluorobenzene
**IS 4** = Chlorobenzene-D5
**IS 5** = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

# Internal Standard Area Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V2V3777-CC3747 | **Injection Date:** | 09/29/22 |
| **Lab File ID:** | 2V93000.D | **Injection Time:** | 21:38 |
| **Instrument ID:** | GCMS2V | **Method:** | SW846 8260D |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| Check Std | 262413 | 2.32 | 309987 | 3.29 | 435465 | 3.75 | 414948 | 5.73 | 186492 | 7.51 |
| Upper Limit [a] | 524826 | 2.82 | 619974 | 3.79 | 870930 | 4.25 | 829896 | 6.23 | 372984 | 8.01 |
| Lower Limit [b] | 131207 | 1.82 | 154994 | 2.79 | 217733 | 3.25 | 207474 | 5.23 | 93246 | 7.01 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| V2V3777-BS | 258604 | 2.33 | 314006 | 3.29 | 438273 | 3.75 | 417412 | 5.73 | 185006 | 7.51 |
| V2V3777-MB | 257981 | 2.32 | 311259 | 3.29 | 428986 | 3.75 | 395248 | 5.73 | 178389 | 7.51 |
| JD52507-10 [c] | 255317 | 2.32 | 306997 | 3.29 | 422066 | 3.75 | 392380 | 5.73 | 175796 | 7.51 |
| JD52507-10MS | 259728 | 2.32 | 309490 | 3.29 | 428017 | 3.75 | 407218 | 5.73 | 181836 | 7.51 |
| JD52507-10MSD | 277794 | 2.32 | 319267 | 3.29 | 439814 | 3.75 | 420026 | 5.73 | 187653 | 7.51 |
| JD52507-14 | 286132 | 2.32 | 320942 | 3.29 | 444222 | 3.75 | 413502 | 5.73 | 189012 | 7.51 |
| JD52507-23 | 265645 | 2.32 | 313491 | 3.29 | 434388 | 3.75 | 400699 | 5.73 | 183632 | 7.51 |
| JD52507-33 | 253826 | 2.32 | 310857 | 3.29 | 429195 | 3.75 | 393212 | 5.73 | 179094 | 7.51 |
| JD52507-36 | 258557 | 2.32 | 313694 | 3.29 | 431596 | 3.75 | 400272 | 5.73 | 181029 | 7.50 |
| JD52507-9 | 255341 | 2.32 | 305342 | 3.29 | 422601 | 3.75 | 391473 | 5.73 | 173178 | 7.51 |
| JD52507-11 [d] | 268744 | 2.32 | 304114 | 3.29 | 419592 | 3.75 | 395174 | 5.73 | 182584 | 7.51 |
| JD52507-12 [d] | 240805 | 2.32 | 292583 | 3.29 | 413515 | 3.75 | 381604 | 5.73 | 174874 | 7.51 |
| JD52507-13 [d] | 225627 | 2.32 | 297501 | 3.29 | 415372 | 3.75 | 379520 | 5.73 | 171164 | 7.51 |
| JD52507-24 | 266689 | 2.32 | 305957 | 3.29 | 423774 | 3.75 | 391702 | 5.73 | 178251 | 7.51 |
| JD52507-25 | 207460 | 2.32 | 284123 | 3.29 | 393946 | 3.75 | 348659 | 5.73 | 157176 | 7.51 |
| JD52507-26 | 271747 | 2.32 | 302797 | 3.29 | 416483 | 3.75 | 376258 | 5.73 | 168043 | 7.51 |
| JD52507-27 | 270288 | 2.32 | 302087 | 3.29 | 415845 | 3.75 | 381258 | 5.73 | 170177 | 7.51 |
| JD52507-28 | 257635 | 2.32 | 302396 | 3.29 | 417366 | 3.75 | 381602 | 5.73 | 166050 | 7.51 |
| JD52507-29 [d] | 272683 | 2.32 | 300290 | 3.29 | 419168 | 3.75 | 384321 | 5.73 | 173151 | 7.51 |
| JD52507-30 | 268613 | 2.32 | 275233 | 3.29 | 397139 | 3.75 | 371038 | 5.73 | 166265 | 7.50 |
| JD52507-31 | 261746 | 2.32 | 282017 | 3.29 | 399087 | 3.75 | 367940 | 5.73 | 164949 | 7.51 |

**IS 1** = Tert Butyl Alcohol-D9
**IS 2** = Pentafluorobenzene
**IS 3** = 1,4-Difluorobenzene
**IS 4** = Chlorobenzene-D5
**IS 5** = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Sample used for QC purposes only.
(d) Dilution required due to high concentration of target compound.

# Internal Standard Area Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | V2V3782-CC3747 | **Injection Date:** | 10/03/22 |
| **Lab File ID:** | 2V93125.D | **Injection Time:** | 11:49 |
| **Instrument ID:** | GCMS2V | **Method:** | SW846 8260D |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| Check Std | 295565 | 2.32 | 319636 | 3.29 | 459640 | 3.75 | 425642 | 5.73 | 192257 | 7.51 |
| Upper Limit [a] | 591130 | 2.82 | 639272 | 3.79 | 919280 | 4.25 | 851284 | 6.23 | 384514 | 8.01 |
| Lower Limit [b] | 147783 | 1.82 | 159818 | 2.79 | 229820 | 3.25 | 212821 | 5.23 | 96129 | 7.01 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| V2V3782-BS | 279950 | 2.32 | 317246 | 3.29 | 459866 | 3.75 | 426030 | 5.73 | 184698 | 7.51 |
| V2V3782-MB | 287200 | 2.32 | 330941 | 3.29 | 475698 | 3.75 | 425303 | 5.73 | 182523 | 7.51 |
| ZZZZZZ | 290492 | 2.32 | 318271 | 3.29 | 461882 | 3.75 | 417761 | 5.73 | 178155 | 7.50 |
| JD52507-31 | 282607 | 2.32 | 314841 | 3.29 | 456347 | 3.75 | 409859 | 5.73 | 182303 | 7.51 |
| JD52507-30 | 285596 | 2.32 | 309605 | 3.29 | 453219 | 3.75 | 418144 | 5.73 | 183649 | 7.50 |
| ZZZZZZ | 274698 | 2.32 | 296726 | 3.29 | 436635 | 3.75 | 397078 | 5.73 | 177386 | 7.50 |
| JD52730-7 | 288656 | 2.32 | 313538 | 3.29 | 458383 | 3.75 | 425104 | 5.73 | 186920 | 7.51 |
| ZZZZZZ | 267062 | 2.32 | 310594 | 3.29 | 453206 | 3.75 | 415054 | 5.73 | 184405 | 7.51 |
| JD52507-32 | 263793 | 2.32 | 299759 | 3.29 | 437443 | 3.75 | 397534 | 5.73 | 172476 | 7.51 |
| JD52507-34 | 269818 | 2.32 | 306396 | 3.29 | 446064 | 3.75 | 405345 | 5.73 | 178926 | 7.51 |
| ZZZZZZ | 276545 | 2.32 | 310707 | 3.29 | 451009 | 3.75 | 414519 | 5.73 | 183094 | 7.51 |
| ZZZZZZ | 282996 | 2.31 | 308211 | 3.29 | 448471 | 3.75 | 416327 | 5.73 | 186758 | 7.50 |
| JD52730-7MS | 279910 | 2.32 | 310324 | 3.29 | 453199 | 3.75 | 431442 | 5.73 | 191408 | 7.51 |
| JD52730-7MSD | 283609 | 2.32 | 319145 | 3.29 | 467307 | 3.75 | 440038 | 5.73 | 200167 | 7.50 |
| JD52507-30 | 286667 | 2.31 | 328446 | 3.29 | 471768 | 3.75 | 427614 | 5.73 | 186810 | 7.50 |
| ZZZZZZ | 274786 | 2.32 | 319812 | 3.29 | 463813 | 3.75 | 422765 | 5.73 | 188824 | 7.50 |
| ZZZZZZ | 270035 | 2.32 | 311282 | 3.29 | 452511 | 3.75 | 414644 | 5.73 | 183895 | 7.51 |
| JD52507-35 | 271409 | 2.32 | 314955 | 3.29 | 459647 | 3.75 | 415013 | 5.73 | 179324 | 7.50 |
| ZZZZZZ | 258842 | 2.32 | 311288 | 3.29 | 450720 | 3.75 | 410800 | 5.73 | 182191 | 7.50 |
| ZZZZZZ | 262375 | 2.32 | 323096 | 3.29 | 469334 | 3.75 | 422737 | 5.73 | 182631 | 7.50 |
| ZZZZZZ | 286755 | 2.32 | 321245 | 3.29 | 464246 | 3.75 | 429812 | 5.73 | 193116 | 7.50 |
| ZZZZZZ | 277801 | 2.32 | 322282 | 3.29 | 469358 | 3.75 | 429940 | 5.73 | 186289 | 7.51 |
| ZZZZZZ | 276869 | 2.32 | 317222 | 3.29 | 462107 | 3.75 | 425941 | 5.73 | 189088 | 7.50 |
| ZZZZZZ | 266824 | 2.32 | 309487 | 3.29 | 458362 | 3.75 | 418974 | 5.73 | 183463 | 7.51 |

**IS 1** = Tert Butyl Alcohol-D9
**IS 2** = Pentafluorobenzene
**IS 3** = 1,4-Difluorobenzene
**IS 4** = Chlorobenzene-D5
**IS 5** = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

# Internal Standard Area Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| | | | |
|---|---|---|---|
| **Check Std:** | VL10519-CC10355 | **Injection Date:** | 10/04/22 |
| **Lab File ID:** | L347829.D | **Injection Time:** | 10:21 |
| **Instrument ID:** | GCMSL | **Method:** | SW846 8260D |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| Check Std | 160578 | 3.09 | 233064 | 4.30 | 343670 | 4.87 | 322965 | 7.27 | 124033 | 9.47 |
| Upper Limit [a] | 321156 | 3.59 | 466128 | 4.80 | 687340 | 5.37 | 645930 | 7.77 | 248066 | 9.97 |
| Lower Limit [b] | 80289 | 2.59 | 116532 | 3.80 | 171835 | 4.37 | 161483 | 6.77 | 62017 | 8.97 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT | IS 5 AREA | RT |
|---|---|---|---|---|---|---|---|---|---|---|
| VL10519-BS | 145848 | 3.08 | 220995 | 4.30 | 329903 | 4.87 | 319292 | 7.27 | 120752 | 9.46 |
| VL10519-BSD | 172278 | 3.09 | 223542 | 4.30 | 340422 | 4.88 | 332412 | 7.27 | 126749 | 9.46 |
| VL10519-MB | 183429 | 3.09 | 270911 | 4.30 | 381732 | 4.87 | 350233 | 7.27 | 146355 | 9.47 |
| JD52507-37 | 164823 | 3.09 | 258279 | 4.30 | 379076 | 4.88 | 342321 | 7.27 | 141563 | 9.47 |
| JD52507-37 [c] | 198707 | 3.09 | 240170 | 4.31 | 355257 | 4.88 | 335453 | 7.27 | 139947 | 9.47 |
| ZZZZZZ | 186084 | 3.09 | 261438 | 4.30 | 372761 | 4.88 | 343219 | 7.27 | 142011 | 9.47 |
| ZZZZZZ | 207773 | 3.09 | 250338 | 4.31 | 364228 | 4.88 | 345100 | 7.27 | 135669 | 9.47 |
| ZZZZZZ | 188543 | 3.09 | 270756 | 4.31 | 385337 | 4.88 | 347860 | 7.27 | 143535 | 9.47 |
| ZZZZZZ | 200234 | 3.09 | 264756 | 4.30 | 385247 | 4.88 | 344149 | 7.27 | 144412 | 9.46 |
| ZZZZZZ | 203097 | 3.09 | 265727 | 4.30 | 380838 | 4.88 | 350902 | 7.27 | 142282 | 9.47 |
| ZZZZZZ | 167532 | 3.09 | 243208 | 4.30 | 357664 | 4.88 | 325659 | 7.27 | 135683 | 9.47 |
| ZZZZZZ | 184653 | 3.09 | 260893 | 4.31 | 371929 | 4.88 | 343416 | 7.27 | 138572 | 9.47 |
| ZZZZZZ | 197769 | 3.09 | 259424 | 4.31 | 374464 | 4.88 | 348240 | 7.27 | 131887 | 9.47 |
| ZZZZZZ | 191438 | 3.09 | 247491 | 4.31 | 357384 | 4.88 | 335555 | 7.28 | 136872 | 9.47 |
| JD52507-37MS | 149943 | 3.09 | 206470 | 4.31 | 315623 | 4.88 | 310949 | 7.27 | 121183 | 9.47 |
| JD52507-37MSD | 152808 | 3.09 | 208578 | 4.31 | 319842 | 4.88 | 311290 | 7.27 | 123232 | 9.47 |
| ZZZZZZ | 205041 | 3.09 | 261816 | 4.31 | 369062 | 4.88 | 334794 | 7.27 | 141832 | 9.47 |
| ZZZZZZ | 173723 | 3.09 | 264512 | 4.30 | 375109 | 4.87 | 344633 | 7.27 | 142090 | 9.46 |
| ZZZZZZ | 194200 | 3.09 | 267999 | 4.30 | 389439 | 4.88 | 359462 | 7.27 | 150848 | 9.47 |
| ZZZZZZ | 187301 | 3.08 | 264058 | 4.31 | 334021 | 4.87 | 336785 | 7.27 | 140747 | 9.47 |
| ZZZZZZ | 184193 | 3.09 | 268071 | 4.30 | 332175 | 4.88 | 340638 | 7.27 | 145482 | 9.46 |
| ZZZZZZ | 185294 | 3.09 | 263683 | 4.30 | 326586 | 4.87 | 318118 | 7.27 | 136448 | 9.46 |

**IS 1** = Tert Butyl Alcohol-D9
**IS 2** = Pentafluorobenzene
**IS 3** = 1,4-Difluorobenzene
**IS 4** = Chlorobenzene-D5
**IS 5** = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Dilution required due to high concentration of target compound.

# Surrogate Recovery Summary



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Method:** SW846 8260D **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| JD52507-1 | 2V92891.D | 100 | 95 | 102 | 96 |
| JD52507-2 | 2V92889.D | 101 | 96 | 102 | 92 |
| JD52507-3 | 2A220398.D | 105 | 86 | 98 | 112 |
| JD52507-3 | 2V92892.D | 100 | 95 | 101 | 92 |
| JD52507-4 | 2V92893.D | 99 | 94 | 102 | 92 |
| JD52507-5 | 2V92894.D | 99 | 95 | 103 | 91 |
| JD52507-6 | 2V92885.D | 98 | 91 | 103 | 94 |
| JD52507-7 | 2V92895.D | 99 | 94 | 101 | 93 |
| JD52507-8 | 1A226614.D | 99 | 100 | 103 | 100 |
| JD52507-8 | 1A226617.D | 99 | 100 | 102 | 107 |
| JD52507-9 | 2V93013.D | 100 | 93 | 102 | 95 |
| JD52507-10 | 1A226613.D | 99 | 116 | 104 | 96 |
| JD52507-10 | 2V93005.D | | | | |
| JD52507-10 | 1A226618.D | 101 | 101 | 103 | 98 |
| JD52507-11 | 2V93014.D | 101 | 99 | 101 | 93 |
| JD52507-12 | 2A220444.D | 111 | 83 | 92 | 111 |
| JD52507-12 | 2V93015.D | 102 | 94 | 102 | 92 |
| JD52507-13 | 2A220446.D | 109 | 83 | 92 | 110 |
| JD52507-13 | 2V93016.D | 98 | 91 | 102 | 92 |
| JD52507-14 | 2V93009.D | 101 | 97 | 101 | 93 |
| JD52507-15 | 1A226450.D | 99 | 99 | 101 | 99 |
| JD52507-16 | 1A226451.D | 98 | 99 | 100 | 98 |
| JD52507-17 | 1A226452.D | 102 | 100 | 101 | 96 |
| JD52507-18 | 1X200585.D | 96 | 98 | 100 | 100 |
| JD52507-18 | 1A226453.D | 100 | 100 | 100 | 98 |
| JD52507-19 | 1X200599.D | 96 | 98 | 99 | 102 |
| JD52507-20 | 1A226455.D | 98 | 100 | 101 | 100 |
| JD52507-21 | 1A226456.D | 99 | 100 | 102 | 100 |
| JD52507-22 | 1X200602.D | 96 | 98 | 100 | 101 |
| JD52507-23 | 2V93010.D | 100 | 96 | 102 | 93 |
| JD52507-24 | 2V93017.D | 100 | 95 | 101 | 93 |
| JD52507-25 | 2V93018.D | 99 | 91 | 104 | 92 |
| JD52507-26 | 2V93019.D | 98 | 93 | 104 | 93 |
| JD52507-27 | 2V93020.D | 98 | 93 | 102 | 94 |
| JD52507-28 | 2V93021.D | 99 | 91 | 101 | 95 |
| JD52507-29 | 2V93022.D | 99 | 94 | 99 | 93 |
| JD52507-30 | 2V93131.D | 106 | 98 | 102 | 99 |
| JD52507-30 | 2V93023.D | 103 | 93 | 99 | 95 |
| JD52507-30 | 2V93142.D | 106 | 100 | 105 | 100 |
| JD52507-31 | 2V93130.D | 105 | 98 | 105 | 96 |

# Surrogate Recovery Summary

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Method:** SW846 8260D **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| JD52507-31 | 2V93024.D | 98 | 91 | 100 | 93 |
| JD52507-32 | 2V93136.D | 107 | 98 | 105 | 98 |
| JD52507-33 | 2V93011.D | 99 | 93 | 102 | 93 |
| JD52507-34 | 2V93137.D | 108 | 100 | 104 | 98 |
| JD52507-35 | 2V93146.D | 106 | 96 | 104 | 98 |
| JD52507-36 | 2V93012.D | 99 | 96 | 102 | 94 |
| JD52507-37 | L347836.D | 93 | 91 | 98 | 91 |
| JD52507-37 | L347837.D | 95 | 92 | 97 | 91 |
| JD50917-15MS | 2A220400.D | 104 | 83 | 100 | 110 |
| JD50917-15MSD | 2A220401.D | 105 | 83 | 99 | 109 |
| JD52310-3MS | 1A226444.D | 99 | 95 | 94 | 96 |
| JD52310-3MSD | 1A226445.D | 99 | 93 | 95 | 95 |
| JD52507-10MS | 2V93006.D | 99 | 102 | 99 | 96 |
| JD52507-10MSD | 2V93007.D | 100 | 102 | 98 | 95 |
| JD52507-37MS | L347847.D | 100 | 86 | 89 | 92 |
| JD52507-37MSD | L347848.D | 97 | 85 | 89 | 94 |
| JD52507-6MS | 2V92886.D | 101 | 95 | 100 | 93 |
| JD52507-6MSD | 2V92887.D | 102 | 100 | 99 | 97 |
| JD52514-12MS | 2A220451.D | 109 | 79* [a] | 93 | 107 |
| JD52514-12MSD | 2A220452.D | 109 | 79* [a] | 94 | 107 |
| JD52594-1MS | 1X200596.D | 96 | 96 | 100 | 99 |
| JD52594-1MSD | 1X200597.D | 94 | 96 | 100 | 99 |
| JD52624-3MS | 1A226620.D | 101 | 97 | 97 | 99 |
| JD52624-3MSD | 1A226621.D | 100 | 99 | 95 | 100 |
| JD52730-7MS | 2V93140.D | 107 | 106 | 100 | 97 |
| JD52730-7MSD | 2V93141.D | 107 | 106 | 103 | 96 |
| V1A9698-BS | 1A226432.D | 99 | 94 | 95 | 96 |
| V1A9698-MB | 1A226434.D | 97 | 99 | 101 | 95 |
| V1A9705-BS | 1A226607.D | 100 | 97 | 98 | 99 |
| V1A9705-MB | 1A226609.D | 98 | 102 | 103 | 98 |
| V1X8637-BS | 1X200581.D | 95 | 96 | 99 | 98 |
| V1X8637-MB | 1X200583.D | 95 | 98 | 100 | 101 |
| V2A9581-BS | 2A220392.D | 105 | 84 | 101 | 110 |
| V2A9581-MB | 2A220394.D | 104 | 86 | 98 | 113 |
| V2A9583-BS | 2A220440.D | 107 | 81 | 94 | 106 |
| V2A9583-MB | 2A220442.D | 110 | 83 | 92 | 110 |
| V2V3773-BS | 2V92882.D | 103 | 102 | 98 | 94 |
| V2V3773-MB | 2V92884.D | 100 | 95 | 105 | 95 |
| V2V3777-BS | 2V93002.D | 100 | 100 | 99 | 95 |
| V2V3777-MB | 2V93004.D | 99 | 94 | 101 | 94 |

# Surrogate Recovery Summary

**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Method:** SW846 8260D **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| V2V3782-BS | 2V93126.D | 107 | 104 | 102 | 98 |
| V2V3782-MB | 2V93128.D | 104 | 98 | 105 | 101 |
| VL10519-BS | L347831.D | 95 | 87 | 90 | 95 |
| VL10519-BSD | L347832.D | 97 | 84 | 88 | 96 |
| VL10519-MB | L347834.D | 96 | 92 | 98 | 89 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 80-120% |
| **S2** = 1,2-Dichloroethane-D4 | 80-120% |
| **S3** = Toluene-D8 | 80-120% |
| **S4** = 4-Bromofluorobenzene | 82-114% |

(a) Outside control limits due to matrix interference.

# Initial Calibration Summary



**Job Number:** JD52507 **Sample:** V1A9688-ICC9688
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1A226129.D
**Project:** EPT, Ithaca, NY

Response Factor Report MSDTEST1A

Method : C:\msdchem\1\methods\M1A9688.M (RTE Integrator)
Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

Calibration Files
8 =1A226127.D 0.5 =1A226123.D 4 =1A226126.D 50 =1A226129.D
100 =1A226130.D 1 =1A226124.D 200 =1A226131.D 20 =1A226128.D
2 =1A226125.D 0.2 =1A226122.D = =

| Compound | 8 | 0.5 | 4 | 50 | 100 | 1 | 200 | 20 | 2 | 0.2 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) I tert Butyl Alcohol-d9 | ISTD | | | | | | | | | | | |
| 2) 1,4-dioxane | 0.069 | 0.078 | 0.079 | 0.075 | 0.072 | 0.068 | | | | | 0.073 | 6.48 |
| 3) ethanol | 0.060 | 0.059 | 0.061 | 0.057 | 0.080 | 0.054 | 0.062 | 0.063 | | | 0.062 | 12.68 |
| 4) tertiary butyl alcohol | 1.033 | 1.102 | 1.138 | 1.118 | 1.312 | 1.095 | 1.079 | 1.291 | | | 1.146 | 8.77 |
| 5) I pentafluorobenzene | ISTD | | | | | | | | | | | |
| 6) chlorodifluoromethane | 0.417 | 0.415 | 0.428 | 0.402 | 0.476 | 0.364 | 0.436 | 0.438 | | | 0.422 | 7.62 |
| 7) dichlorodifluoromethane | 0.598 | 0.636 | 0.602 | 0.625 | 0.598 | 0.665 | 0.563 | 0.598 | 0.611 | 0.695 | 0.619 | 6.13 |
| 8) chloromethane | 0.438 | 0.469 | 0.447 | 0.438 | 0.385 | 0.487 | 0.346 | 0.445 | 0.496 | | 0.439 | 10.84 |
| 9) vinyl chloride | 0.616 | 0.619 | 0.639 | 0.629 | 0.575 | 0.598 | 0.523 | 0.623 | 0.685 | | 0.612 | 7.30 |
| 10) 1,3-butadiene | 0.572 | 0.598 | 0.517 | 0.467 | 0.571 | 0.413 | 0.572 | 0.611 | | | 0.540 | 12.79 |
| 11) bromomethane | 0.159 | 0.171 | 0.212 | 0.274 | 0.305 | 0.172 | 0.229 | | | | 0.218 | 25.63 |
| ---- Quadratic regression ---- Coefficient = 0.9998 | | | | | | | | | | | | |
| Response Ratio = 0.00315 + 0.13789 *A + 0.06756 *A^2 | | | | | | | | | | | | |
| 12) chloroethane | 0.393 | 0.438 | 0.392 | 0.374 | 0.431 | 0.358 | 0.393 | 0.461 | | | 0.405 | 8.59 |
| 13) trichlorofluoromethane | 0.749 | 0.711 | 0.763 | 0.755 | 0.715 | 0.794 | 0.678 | 0.749 | 0.814 | 0.720 | 0.745 | 5.42 |
| 14) ethyl ether | 0.224 | 0.253 | 0.233 | 0.220 | 0.278 | 0.213 | 0.237 | 0.236 | | | 0.237 | 8.74 |
| 15) acrolein | 0.072 | 0.060 | 0.088 | 0.088 | 0.085 | 0.085 | 0.067 | | | | 0.078 | 14.66 |
| 16) freon 113 | 0.304 | 0.298 | 0.307 | 0.299 | 0.292 | 0.336 | 0.286 | 0.316 | 0.310 | 0.382 | 0.313 | 8.93 |
| 17) 1,1-dichloroethene | 0.327 | 0.415 | 0.338 | 0.343 | 0.323 | 0.345 | 0.309 | 0.350 | 0.383 | | 0.348 | 9.32 |
| 18) acetone | 0.046 | 0.046 | 0.045 | 0.041 | 0.051 | 0.037 | 0.046 | 0.039 | | | 0.044 | 10.09 |
| 19) acetonitrile | 0.032 | 0.035 | 0.030 | 0.028 | 0.025 | 0.031 | | | | | 0.030 | 11.39 |
| 20) iodomethane *This compound fails Initial Calibration criteria* | 0.097 | 0.091 | 0.227 | 0.307 | 0.345 | 0.147 | 0.085 | | | | 0.186 | 58.26 |
| 21) iso-butyl alcohol | 0.039 | 0.039 | 0.039 | 0.036 | 0.047 | 0.033 | 0.040 | 0.040 | | | 0.039 | 10.16 |

# Initial Calibration Summary

**Job Number:** JD52507 **Sample:** V1A9688-ICC9688
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1A226129.D
**Project:** EPT, Ithaca, NY

22) carbon disulfide
0.981 1.059 0.961 0.918 1.360 0.879 1.016 1.144 1.040 14.73
23) methylene chloride
0.408 0.412 0.387 0.358 0.536 0.342 0.387 0.438 0.408 14.65
24) methyl acetate
0.099 0.101 0.100 0.092 0.084 0.101 0.102 0.097 6.65
25) methyl tert butyl ether
1.186 1.361 1.223 1.218 1.143 1.272 1.100 1.222 1.238 1.228 1.219 5.77
26) trans-1,2-dichloroethene
0.355 0.393 0.370 0.369 0.352 0.416 0.338 0.372 0.380 0.372 6.22
27) hexane
0.485 0.522 0.483 0.491 0.470 0.547 0.446 0.484 0.467 0.492 0.489 5.79
28) di-isopropyl ether
1.102 1.179 1.101 1.145 1.069 1.138 1.004 1.154 1.204 1.229 1.132 5.86
29) ethyl tert-butyl ether
1.142 1.340 1.157 1.189 1.135 1.208 1.090 1.194 1.164 1.109 1.173 5.93
30) 2-butanone
0.066 0.072 0.062 0.071 0.066 0.072 0.063 0.070 0.067 0.079 0.069 7.28
31) 1,1-dichloroethane
0.641 0.646 0.658 0.672 0.625 0.754 0.595 0.681 0.697 0.830 0.680 10.01
32) chloroprene
0.510 0.642 0.531 0.514 0.492 0.606 0.472 0.538 0.559 0.516 0.538 9.69
33) acrylonitrile
0.181 0.200 0.177 0.193 0.180 0.189 0.172 0.180 0.188 0.184 4.69
34) vinyl acetate
0.081 0.093 0.095 0.093 0.092 0.094 0.114 0.095 10.31
35) ethyl acetate
0.074 0.091 0.079 0.081 0.090 0.069 0.080 0.085 0.081 9.11
36) 2,2-dichloropropane
0.453 0.443 0.484 0.474 0.537 0.468 0.482 0.456 0.475 6.11
37) cis-1,2-dichloroethene
0.393 0.421 0.418 0.430 0.410 0.473 0.388 0.422 0.425 0.394 0.417 5.87
38) propionitrile
0.071 0.079 0.070 0.075 0.068 0.080 0.063 0.074 0.071 0.072 7.25
39) methyl acrylate
0.088 0.113 0.094 0.096 0.091 0.085 0.088 0.094 0.082 0.092 9.88
40) bromochloromethane
0.198 0.210 0.213 0.201 0.244 0.190 0.209 0.232 0.212 8.45
41) tetrahydrofuran *This compound fails EPA 624.1 Initial Calibration criteria*
0.092 0.107 0.083 0.079 0.072 0.089 0.087 13.98
42) chloroform
0.714 0.776 0.710 0.674 0.994 0.629 0.720 0.838 0.757 15.12
43) dibromofluoromethane (s)
0.442 0.440 0.443 0.451 0.430 0.448 0.427 0.443 0.436 0.446 0.441 1.74
44) methacrylonitrile
0.207 0.259 0.221 0.227 0.216 0.251 0.206 0.222 0.204 0.224 8.76
45) 1,1,1-trichloroethane
0.592 0.695 0.613 0.627 0.607 0.677 0.585 0.612 0.656 0.577 0.624 6.37
46) cyclohexane
0.554 0.639 0.568 0.589 0.574 0.626 0.557 0.574 0.624 0.596 0.590 5.17
47) 1,1-dichloropropene
0.503 0.635 0.519 0.525 0.502 0.569 0.486 0.525 0.560 0.609 0.543 8.99
48) carbon tetrachloride
0.502 0.571 0.502 0.545 0.530 0.574 0.522 0.539 0.532 0.541 0.536 4.53
49) isopropyl acetate
0.109 0.107 0.120 0.115 0.139 0.110 0.119 0.107 0.116 9.13
50) tert amyl alcohol
0.023 0.021 0.023 0.021 0.024 0.019 0.023 0.022 0.022 7.56

51) I 1,4-difluorobenzene ----------ISTD----------

# Initial Calibration Summary

**Job Number:** JD52507 **Sample:** V1A9688-ICC9688
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1A226129.D
**Project:** EPT, Ithaca, NY

```
52)  1,2-dichloroethane-d4 (s)
          0.356 0.358 0.360 0.339 0.322 0.360 0.316 0.347 0.355 0.348  0.346    4.58
53)  tert-amyl methyl ether
          0.791 0.859 0.795 0.823 0.794 0.881 0.794 0.814 0.834 0.834  0.822    3.73
54)  2,2,4-trimethylpentane
          0.636 0.704 0.654 0.653 0.635 0.653 0.653 0.642 0.655 0.671  0.656    3.04
55)  n-butyl alcohol
          0.007       0.005 0.009 0.009       0.009 0.008              0.008   20.27
           ---- Linear regression ----  Coefficient =  0.9985
             Response Ratio = -0.01495 + 0.00883 *A

56)  benzene
          0.962 1.170 1.025 1.017 0.971 1.121 0.955 1.024 1.020 1.064  1.033    6.71
57)  heptane
          0.118 0.133 0.123 0.128 0.131 0.139 0.129 0.123 0.123        0.127    4.97
58)  1,2-dichloroethane
          0.359       0.382 0.369 0.342 0.460 0.337 0.367 0.400        0.377   10.43
59)  trichloroethene
          0.255 0.310 0.272 0.273 0.268 0.314 0.271 0.266 0.270 0.250  0.275    7.63
60)  ethyl acrylate
          0.375 0.427 0.391 0.441 0.424 0.424 0.410 0.414 0.393        0.411    5.07
61)  2-nitropropane
          0.121       0.116 0.119 0.113       0.112 0.120 0.124        0.118    3.63
62)  2-chloroethyl vinyl ether
          0.062 0.068 0.068 0.057 0.051 0.072 0.043 0.067 0.066        0.062   15.23
63)  methyl methacrylate
          0.086       0.095 0.102 0.099 0.093 0.101 0.097 0.083        0.094    7.22
64)  1,2-dichloropropane
          0.246 0.277 0.261 0.261 0.248 0.293 0.244 0.265 0.288        0.265    6.80
65)  methylcyclohexane
          0.398 0.390 0.424 0.422 0.422 0.457 0.427 0.421 0.424 0.437  0.422    4.42
66)  dibromomethane
          0.177 0.231 0.179 0.182 0.177 0.218 0.175 0.188 0.191        0.191   10.56
67)  bromodichloromethane
          0.350 0.430 0.383 0.378 0.361 0.445 0.360 0.372 0.385 0.436  0.390    8.84
68)  cis-1,3-dichloropropene
          0.406 0.447 0.397 0.440 0.423 0.446 0.417 0.424 0.421 0.468  0.429    4.96
69)  epichlorohydrin
          0.018 0.023 0.019 0.019 0.018 0.016 0.021 0.020 0.021        0.019    9.25
70)  4-methyl-2-pentanone
          0.136 0.143 0.134 0.146 0.136 0.138 0.135 0.143 0.132        0.138    3.47
71)  3-methyl-1-butanol
          0.006       0.006 0.010 0.010       0.010 0.009 0.005        0.008   26.17
           ---- Linear regression ----  Coefficient =  0.9983
             Response Ratio = -0.00564 + 0.00990 *A


72) I   chlorobenzene-d5      ----------------ISTD---------------------
73)  toluene-d8 (s)
          1.368 1.384 1.372 1.299 1.290 1.373 1.265 1.322 1.378 1.400  1.345    3.47
74)  toluene
          0.710 0.752 0.734 0.729 0.719 0.796 0.686 0.723 0.741        0.732    4.17
75)  trans-1,3-dichloropropene
          0.403 0.371 0.410 0.453 0.449 0.445 0.441 0.440 0.376 0.431  0.422    7.19
76)  ethyl methacrylate
          0.431 0.383 0.438 0.469 0.457 0.420 0.431 0.462 0.415 0.456  0.436    5.95
77)  1,1,2-trichloroethane
          0.245 0.272 0.255 0.249 0.238 0.282 0.228 0.244 0.275 0.263  0.255    6.90
78)  2-hexanone
          0.160 0.153 0.147 0.161 0.153 0.172 0.146 0.163 0.142        0.155    6.11
```

# Initial Calibration Summary

**Job Number:** JD52507 **Sample:** V1A9688-ICC9688
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1A226129.D
**Project:** EPT, Ithaca, NY

79) tetrachloroethene
0.303 0.360 0.293 0.303 0.299 0.347 0.300 0.304 0.327 0.264 0.310 9.01
80) 1,3-dichloropropane
0.477 0.505 0.485 0.483 0.464 0.555 0.450 0.492 0.511 0.501 0.492 5.85
81) butyl acetate
0.220 0.177 0.207 0.234 0.228 0.214 0.216 0.230 0.230 0.217 8.08
82) dibromochloromethane
0.323 0.381 0.323 0.334 0.331 0.368 0.329 0.332 0.336 0.429 0.348 9.80
83) 1,2-dibromoethane
0.319 0.405 0.307 0.321 0.312 0.360 0.306 0.321 0.341 0.283 0.328 10.43
84) n-butyl ether
1.046 1.124 1.092 1.113 1.090 1.087 1.032 1.129 1.097 0.891 1.070 6.55
85) chlorobenzene
0.769 1.014 0.801 0.806 0.798 0.856 0.786 0.806 0.811 0.827 8.91
86) 1,1,1,2-tetrachloroethane
0.262 0.286 0.264 0.288 0.284 0.332 0.283 0.276 0.282 0.284 7.13
87) ethylbenzene
1.308 1.475 1.360 1.337 1.297 1.460 1.237 1.352 1.391 1.602 1.382 7.65
88) m,p-xylene
0.510 0.572 0.501 0.521 0.513 0.518 0.499 0.515 0.511 0.482 0.514 4.51
89) o-xylene
0.484 0.516 0.474 0.527 0.523 0.553 0.504 0.523 0.533 0.484 0.512 4.90
90) butyl acrylate
0.514 0.479 0.637 0.634 0.606 0.616 0.449 0.562 14.04
91) n-amyl acetate
0.210 0.185 0.255 0.251 0.239 0.234 0.180 0.222 13.91
92) styrene
0.822 0.759 0.836 0.918 0.892 0.822 0.852 0.898 0.820 0.745 0.837 6.78
93) bromoform
0.207 0.243 0.210 0.246 0.250 0.232 0.243 0.224 0.231 0.232 6.63
94) isopropylbenzene
1.229 1.382 1.227 1.333 1.319 1.363 1.232 1.298 1.298 1.293 1.297 4.23
95) cis-1,4-dichloro-2-butene
0.091 0.095 0.133 0.131 0.130 0.107 0.098 0.112 16.52

96) I 1,4-dichlorobenzene-d ----------ISTD----------
97) 4-bromofluorobenzene (s)
1.072 1.016 1.071 1.033 1.004 1.040 0.987 1.046 1.064 1.041 1.037 2.74
98) bromobenzene
0.770 0.874 0.838 0.805 0.778 0.867 0.767 0.802 0.791 0.685 0.798 6.90
99) 1,1,2,2-tetrachloroethane
1.019 1.149 1.086 1.021 0.961 1.120 0.931 1.060 1.058 1.086 1.049 6.46
100) trans-1,4-dichloro-2-butene
0.187 0.186 0.224 0.222 0.217 0.210 0.208 8.28
101) 1,2,3-trichloropropane
0.326 0.322 0.309 0.290 0.402 0.277 0.316 0.315 0.320 11.62
102) n-propylbenzene
3.479 3.704 3.574 3.491 3.336 3.797 3.177 3.524 3.594 3.510 3.519 4.95
103) 2-chlorotoluene
0.680 0.731 0.762 0.736 0.710 0.749 0.704 0.737 0.794 0.734 4.56
104) 4-chlorotoluene
0.711 0.775 0.747 0.730 0.717 0.740 0.798 0.745 4.23
105) 1,3,5-trimethylbenzene
2.308 2.465 2.421 2.393 2.288 2.564 2.180 2.390 2.503 2.299 2.381 4.81
106) tert-butylbenzene
2.028 2.244 2.088 2.097 2.098 2.090 2.038 2.100 2.082 1.901 2.077 4.08
107) 1,2,4-trimethylbenzene
2.383 2.554 2.381 2.480 2.324 2.506 2.216 2.459 2.498 2.186 2.399 5.21
108) sec-butylbenzene
2.872 3.064 2.838 2.985 2.922 2.772 2.799 2.954 2.929 2.767 2.890 3.39

# Initial Calibration Summary

**Job Number:** JD52507 **Sample:** V1A9688-ICC9688
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1A226129.D
**Project:** EPT, Ithaca, NY

```
109)  1,3-dichlorobenzene
            1.219 1.292 1.297 1.375 1.370 1.309 1.355 1.338 1.223 1.332  1.311    4.21
110)  p-isopropyltoluene
            2.307 2.353 2.351 2.534 2.488 2.082 2.438 2.452 2.328 2.111  2.344    6.39
111)  1,2,3-trimethylbenzene
            2.389 2.821 2.483 2.461 2.322 2.471 2.259 2.458 2.431 2.194  2.429    6.97
112)  1,4-dichlorobenzene
            1.292 1.474 1.410 1.396 1.367 1.435 1.377 1.359 1.444        1.395    3.89
113)  1,2-dichlorobenzene
            1.246 1.459 1.197 1.316 1.285 1.128 1.254 1.283 1.243 1.128  1.254    7.64
114)  n-butylbenzene
            0.977       0.979 1.127 1.123 0.898 1.075 1.077 0.931        1.023    8.64
115)  1,2-dibromo-3-chloropropane
            0.223       0.209 0.248 0.244 0.248 0.248 0.239 0.198        0.232    8.60
116)  1,3,5-trichlorobenzene
            0.718       0.726 0.807 0.800 0.729 0.803 0.753 0.681        0.752    6.21
117)  1,2,4-trichlorobenzene
            0.592 0.512 0.607 0.694 0.688 0.568 0.689 0.655 0.563        0.619   10.63
118)  hexachlorobutadiene
            0.215 0.219 0.236 0.226 0.223 0.257 0.224 0.233 0.226        0.229    5.46
119)  naphthalene
            2.113 1.995 2.108 2.412 2.345 1.926 2.264 2.298 2.100        2.173    7.56
120)  1,2,3-trichlorobenzene
            0.534 0.436 0.553 0.582 0.571 0.507 0.567 0.558 0.508        0.535    8.52
121)  hexachloroethane
            0.328 0.366 0.314 0.396 0.405 0.394 0.416 0.368 0.315 0.386  0.369   10.22
122)  benzyl chloride
            1.023       0.935 1.371 1.395       1.412 1.188 0.955        1.183   18.00
123)  2-methylnaphthalene
            0.285             0.495 0.528       0.491 0.469              0.454   21.30
             ---- Linear regression ----  Coefficient =  0.9975
               Response Ratio = -0.01464 + 0.51532 *A

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

           M1A9688.M         Wed Sep 21 12:05:04 2022   1A
```

# Initial Calibration Verification



**Job Number:** JD52507 **Sample:** V1A9688-ICV9688
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1A226134.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\V1A9688\1A226134.D Vial: 14
Acq On : 14 Sep 2022 2:15 am Operator: PrashanS
Sample : ICV9688-50 Inst : MSDTEST1A
Misc : MS62100, V1A9688,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M1A9688.M (RTE Integrator)
Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Wed Sep 21 12:03:58 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert Butyl Alcohol-d9 | 1.000 | 1.000 | 0.0 | 100 | 0.00 | 2.92 |
| 2 | | 1,4-dioxane | 0.073 | 0.077 | -5.5 | 98 | 0.00 | 4.75 |
| 3 | | ethanol | 0.062 | 0.061 | 1.6 | 99 | 0.00 | 2.41 |
| 4 | M | tertiary butyl alcohol | 1.146 | 1.101 | 3.9 | 97 | 0.00 | 2.96 |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 3.94 |
| 6 | | chlorodifluoromethane | ----------NA---------- | | | | | |
| 7 | | dichlorodifluoromethane | 0.619 | 0.598 | 3.4 | 98 | 0.00 | 1.63 |
| 8 | | chloromethane | 0.439 | 0.433 | 1.4 | 101 | 0.00 | 1.78 |
| 9 | | vinyl chloride | 0.612 | 0.638 | -4.2 | 104 | 0.00 | 1.86 |
| 10 | | 1,3-butadiene | 0.540 | 0.614 | -13.7 | 122 | 0.00 | 1.89 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 11 | | bromomethane | 50.000 | 59.727 | -19.5 | 128 | 0.00 | 2.10 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 12 | | chloroethane | 0.405 | 0.401 | 1.0 | 105 | 0.00 | 2.17 |
| 13 | | trichlorofluoromethane | 0.745 | 0.768 | -3.1 | 104 | 0.00 | 2.33 |
| 14 | | ethyl ether | 0.237 | 0.249 | -5.1 | 109 | 0.00 | 2.50 |
| 15 | | acrolein | 0.078 | 0.082 | -5.1 | 96 | 0.00 | 2.59 |
| 16 | | freon 113 | 0.313 | 0.305 | 2.6 | 105 | 0.00 | 2.66 |
| 17 | | 1,1-dichloroethene | 0.348 | 0.357 | -2.6 | 107 | 0.00 | 2.66 |
| 18 | | acetone | 0.044 | 0.044 | 0.0 | 100 | 0.00 | 2.67 |
| 19 | | acetonitrile | ----------NA---------- | | | | | |
| 20 | | iodomethane | 0.186 | 0.248 | -33.3# | 112 | 0.00 | 2.76 |
| 21 | | iso-butyl alcohol | 0.039 | 0.042 | -7.7 | 112 | 0.00 | 2.84 |
| 22 | | carbon disulfide | 1.040 | 1.052 | -1.2 | 112 | 0.00 | 2.82 |
| 23 | | methylene chloride | 0.408 | 0.390 | 4.4 | 103 | 0.00 | 2.94 |
| 24 | | methyl acetate | 0.097 | 0.111 | -14.4 | 114 | 0.00 | 2.84 |
| 25 | | methyl tert butyl ether | 1.219 | 1.268 | -4.0 | 107 | 0.00 | 3.09 |
| 26 | | trans-1,2-dichloroethene | 0.372 | 0.377 | -1.3 | 105 | 0.00 | 3.10 |
| 27 | | hexane | 0.489 | 0.548 | -12.1 | 115 | 0.00 | 3.26 |
| 28 | | di-isopropyl ether | 1.132 | 1.154 | -1.9 | 103 | 0.00 | 3.34 |
| 29 | | ethyl tert-butyl ether | 1.173 | 1.164 | 0.8 | 100 | 0.00 | 3.55 |
| 30 | | 2-butanone | 0.069 | 0.072 | -4.3 | 103 | 0.00 | 3.65 |
| 31 | M | 1,1-dichloroethane | 0.680 | 0.679 | 0.1 | 104 | 0.00 | 3.35 |
| 32 | | chloroprene | 0.538 | 0.558 | -3.7 | 111 | 0.00 | 3.40 |
| 33 | | acrylonitrile | ----------NA---------- | | | | | |
| 34 | | vinyl acetate | 0.095 | 0.085 | 10.5 | 91 | 0.00 | 3.33 |
| 35 | | ethyl acetate | 0.081 | 0.077 | 4.9 | 99 | 0.00 | 3.66 |
| 36 | | 2,2-dichloropropane | 0.475 | 0.489 | -2.9 | 104 | 0.00 | 3.69 |
| 37 | | cis-1,2-dichloroethene | 0.417 | 0.435 | -4.3 | 104 | 0.00 | 3.68 |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** V1A9688-ICV9688
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1A226134.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | | propionitrile | 0.072 | 0.070 | 2.8 | 96 | 0.00 | 3.69 |
| 39 | | methyl acrylate | 0.092 | 0.098 | -6.5 | 104 | 0.00 | 3.69 |
| 40 | | bromochloromethane | 0.212 | 0.218 | -2.8 | 105 | 0.00 | 3.81 |
| 41 | | tetrahydrofuran | 0.087 | 0.088 | -1.1 | 109 | 0.00 | 3.83 |
| 42 | | chloroform | 0.757 | 0.724 | 4.4 | 105 | 0.00 | 3.86 |
| 43 | S | dibromofluoromethane (s) | 0.441 | 0.443 | -0.5 | 101 | 0.00 | 3.95 |
| 44 | | methacrylonitrile | 0.224 | 0.233 | -4.0 | 105 | 0.00 | 3.78 |
| 45 | | 1,1,1-trichloroethane | 0.624 | 0.641 | -2.7 | 105 | 0.00 | 3.98 |
| 46 | | cyclohexane | 0.590 | 0.607 | -2.9 | 106 | 0.00 | 4.03 |
| 47 | | 1,1-dichloropropene | 0.543 | 0.552 | -1.7 | 108 | 0.00 | 4.06 |
| 48 | | carbon tetrachloride | 0.536 | 0.559 | -4.3 | 105 | 0.00 | 4.07 |
| 49 | | isopropyl acetate | 0.116 | 0.121 | -4.3 | 103 | 0.00 | 4.15 |
| 50 | | tert amyl alcohol | 0.022 | 0.023 | -4.5 | 102 | 0.00 | 4.13 |
| 51 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 4.40 |
| 52 | S | 1,2-dichloroethane-d4 (s) | 0.346 | 0.334 | 3.5 | 100 | 0.00 | 4.16 |
| 53 | | tert-amyl methyl ether | 0.822 | 0.790 | 3.9 | 98 | 0.00 | 4.22 |
| 54 | | 2,2,4-trimethylpentane | 0.656 | 0.647 | 1.4 | 101 | 0.00 | 4.23 |

| | | | True | Calc. | % Drift | | | |
|---|---|---|---|---|---|---|---|---|
| 55 | | n-butyl alcohol | 2500.000 | 2542.810 | -1.7 | 97 | 0.00 | 4.44 |

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 56 | M | benzene | 1.033 | 1.046 | -1.3 | 105 | 0.00 | 4.19 |
| 57 | | heptane | 0.127 | 0.142 | -11.8 | 113 | 0.00 | 4.32 |
| 58 | | 1,2-dichloroethane | 0.377 | 0.372 | 1.3 | 103 | 0.00 | 4.20 |
| 59 | | trichloroethene | 0.275 | 0.282 | -2.5 | 105 | 0.00 | 4.56 |
| 60 | | ethyl acrylate | 0.411 | 0.418 | -1.7 | 97 | 0.00 | 4.56 |
| 61 | | 2-nitropropane | 0.118 | 0.121 | -2.5 | 104 | 0.00 | 4.99 |
| 62 | | 2-chloroethyl vinyl ether | 0.062 | 0.062 | 0.0 | 111 | 0.00 | 5.01 |
| 63 | | methyl methacrylate | 0.094 | 0.109 | -16.0 | 109 | 0.00 | 4.71 |
| 64 | | 1,2-dichloropropane | 0.265 | 0.258 | 2.6 | 100 | 0.00 | 4.72 |
| 65 | | methylcyclohexane | 0.422 | 0.446 | -5.7 | 107 | 0.00 | 4.72 |
| 66 | | dibromomethane | 0.191 | 0.185 | 3.1 | 104 | 0.00 | 4.78 |
| 67 | | bromodichloromethane | 0.390 | 0.385 | 1.3 | 103 | 0.00 | 4.87 |
| 68 | | cis-1,3-dichloropropene | 0.429 | 0.434 | -1.2 | 100 | 0.00 | 5.13 |
| 69 | | epichlorohydrin | 0.019 | 0.018 | 5.3 | 97 | 0.00 | 5.06 |
| 70 | | 4-methyl-2-pentanone | 0.138 | 0.144 | -4.3 | 101 | 0.00 | 5.20 |

| | | | True | Calc. | % Drift | | | |
|---|---|---|---|---|---|---|---|---|
| 71 | | 3-methyl-1-butanol | 1000.000 | 994.718 | 0.5 | 98 | 0.00 | 5.21 |

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 6.29 |
| 73 | S | toluene-d8 (s) | 1.345 | 1.289 | 4.2 | 101 | 0.00 | 5.32 |
| 74 | | toluene | 0.732 | 0.735 | -0.4 | 103 | 0.00 | 5.36 |
| 75 | | trans-1,3-dichloropropene | 0.422 | 0.453 | -7.3 | 102 | 0.00 | 5.48 |
| 76 | | ethyl methacrylate | 0.436 | 0.445 | -2.1 | 97 | 0.00 | 5.49 |
| 77 | | 1,1,2-trichloroethane | 0.255 | 0.247 | 3.1 | 101 | 0.00 | 5.62 |
| 78 | | 2-hexanone | 0.155 | 0.160 | -3.2 | 101 | 0.00 | 5.74 |
| 79 | | tetrachloroethene | ----------NA---------- | | | | | |
| 80 | | 1,3-dichloropropane | 0.492 | 0.487 | 1.0 | 103 | 0.00 | 5.74 |
| 81 | | butyl acetate | 0.217 | 0.238 | -9.7 | 103 | 0.00 | 5.80 |
| 82 | | dibromochloromethane | 0.348 | 0.350 | -0.6 | 107 | 0.00 | 5.89 |
| 83 | | 1,2-dibromoethane | 0.328 | 0.323 | 1.5 | 102 | 0.00 | 5.98 |
| 84 | | n-butyl ether | 1.070 | 1.086 | -1.5 | 99 | 0.00 | 6.32 |
| 85 | | chlorobenzene | 0.827 | 0.812 | 1.8 | 102 | 0.00 | 6.31 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.284 | 0.286 | -0.7 | 101 | 0.00 | 6.36 |
| 87 | | ethylbenzene | 1.382 | 1.343 | 2.8 | 102 | 0.00 | 6.36 |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** V1A9688-ICV9688
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1A226134.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 88 | | m,p-xylene | 0.514 | 0.526 | -2.3 | 103 | 0.00 | 6.45 |
| 89 | | o-xylene | 0.512 | 0.534 | -4.3 | 103 | 0.00 | 6.72 |
| 90 | | butyl acrylate | 0.562 | 0.635 | -13.0 | 101 | 0.00 | 6.63 |
| 91 | | n-amyl acetate | 0.222 | 0.245 | -10.4 | 98 | 0.00 | 6.78 |
| 92 | | styrene | 0.837 | 0.918 | -9.7 | 102 | 0.00 | 6.73 |
| 93 | | bromoform | 0.232 | 0.247 | -6.5 | 102 | 0.00 | 6.87 |
| 94 | | isopropylbenzene | 1.297 | 1.342 | -3.5 | 102 | 0.00 | 6.96 |
| 95 | | cis-1,4-dichloro-2-butene | 0.112 | 0.124 | -10.7 | 95 | 0.00 | 6.99 |
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 100 | 0.00 | 7.84 |
| 97 | S | 4-bromofluorobenzene (s) | 1.037 | 1.023 | 1.4 | 99 | 0.00 | 7.08 |
| 98 | | bromobenzene | 0.798 | 0.823 | -3.1 | 102 | 0.00 | 7.19 |
| 99 | | 1,1,2,2-tetrachloroethane | 1.049 | 1.031 | 1.7 | 101 | 0.00 | 7.15 |
| 100 | | trans-1,4-dichloro-2-bute | 0.208 | 0.241 | -15.9 | 107 | 0.00 | 7.18 |
| 101 | | 1,2,3-trichloropropane | 0.320 | 0.316 | 1.3 | 102 | 0.00 | 7.20 |
| 102 | | n-propylbenzene | 3.519 | 3.578 | -1.7 | 102 | 0.00 | 7.23 |
| 103 | | 2-chlorotoluene | 0.734 | 0.753 | -2.6 | 102 | 0.00 | 7.31 |
| 104 | | 4-chlorotoluene | 0.745 | 0.761 | -2.1 | 101 | 0.00 | 7.38 |
| 105 | | 1,3,5-trimethylbenzene | 2.381 | 2.438 | -2.4 | 101 | 0.00 | 7.35 |
| 106 | | tert-butylbenzene | 2.077 | 2.192 | -5.5 | 104 | 0.00 | 7.56 |
| 107 | | 1,2,4-trimethylbenzene | 2.399 | 2.476 | -3.2 | 99 | 0.00 | 7.60 |
| 108 | | sec-butylbenzene | 2.890 | 3.042 | -5.3 | 102 | 0.00 | 7.70 |
| 109 | | 1,3-dichlorobenzene | 1.311 | 1.396 | -6.5 | 101 | 0.00 | 7.80 |
| 110 | | p-isopropyltoluene | 2.344 | 2.588 | -10.4 | 102 | 0.00 | 7.79 |
| 111 | | 1,2,3-trimethylbenzene | ----------NA---------- | | | | | |
| 112 | | 1,4-dichlorobenzene | 1.395 | 1.384 | 0.8 | 99 | 0.00 | 7.86 |
| 113 | | 1,2-dichlorobenzene | 1.254 | 1.346 | -7.3 | 102 | 0.00 | 8.09 |
| 114 | | n-butylbenzene | 1.023 | 1.149 | -12.3 | 102 | 0.00 | 8.05 |
| 115 | | 1,2-dibromo-3-chloropropa | 0.232 | 0.256 | -10.3 | 103 | 0.00 | 8.57 |
| 116 | | 1,3,5-trichlorobenzene | 0.752 | 0.832 | -10.6 | 103 | 0.00 | 8.68 |
| 117 | | 1,2,4-trichlorobenzene | 0.619 | 0.701 | -13.2 | 101 | 0.00 | 9.05 |
| 118 | | hexachlorobutadiene | 0.229 | 0.236 | -3.1 | 104 | 0.00 | 9.13 |
| 119 | | naphthalene | 2.173 | 2.432 | -11.9 | 100 | 0.00 | 9.22 |
| 120 | | 1,2,3-trichlorobenzene | 0.535 | 0.578 | -8.0 | 99 | 0.00 | 9.36 |
| 121 | | hexachloroethane | 0.369 | 0.420 | -13.8 | 106 | 0.00 | 8.26 |
| 122 | | benzyl chloride | 1.183 | 1.260 | -6.5 | 92 | 0.00 | 7.92 |
| | | | True | Calc. | % Drift | | | |
| 123 | | 2-methylnaphthalene | 25.000 | 25.254 | -1.0 | 99 | 0.00 | 9.98 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1A226129.D M1A9688.M Wed Sep 21 12:04:40 2022 1A

# Initial Calibration Verification



**Job Number:** JD52507 **Sample:** V1A9688-ICV9688
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1A226135.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\V1A9688\1A226135.D Vial: 15
Acq On : 14 Sep 2022 2:39 am Operator: PrashanS
Sample : ICV9688-50 Inst : MSDTEST1A
Misc : MS62100, V1A9688,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M1A9688.M (RTE Integrator)
Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Mon Sep 19 11:59:35 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert Butyl Alcohol-d9 | 1.000 | 1.000 | 0.0 | 95 | 0.00 | 2.91 |
| 2 | | 1,4-dioxane | | ----------NA---------- | | | | |
| 3 | | ethanol | | ----------NA---------- | | | | |
| 4 | M | tertiary butyl alcohol | | ----------NA---------- | | | | |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 3.94 |
| 6 | | chlorodifluoromethane | 0.422 | 0.456 | -8.1 | 110 | 0.00 | 1.64 |
| 7 | | dichlorodifluoromethane | | ----------NA---------- | | | | |
| 8 | | chloromethane | | ----------NA---------- | | | | |
| 9 | | vinyl chloride | | ----------NA---------- | | | | |
| 10 | | 1,3-butadiene | | ----------NA---------- | | | | |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 11 | | bromomethane | | ----------NA---------- | | | | |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 12 | | chloroethane | | ----------NA---------- | | | | |
| 13 | | trichlorofluoromethane | | ----------NA---------- | | | | |
| 14 | | ethyl ether | | ----------NA---------- | | | | |
| 15 | | acrolein | | ----------NA---------- | | | | |
| 16 | | freon 113 | | ----------NA---------- | | | | |
| 17 | | 1,1-dichloroethene | | ----------NA---------- | | | | |
| 18 | | acetone | | ----------NA---------- | | | | |
| 19 | | acetonitrile | 0.030 | 0.027 | 10.0 | 93 | 0.00 | 2.83 |
| 20 | | iodomethane | | ----------NA---------- | | | | |
| 21 | | iso-butyl alcohol | | ----------NA---------- | | | | |
| 22 | | carbon disulfide | | ----------NA---------- | | | | |
| 23 | | methylene chloride | | ----------NA---------- | | | | |
| 24 | | methyl acetate | | ----------NA---------- | | | | |
| 25 | | methyl tert butyl ether | | ----------NA---------- | | | | |
| 26 | | trans-1,2-dichloroethene | | ----------NA---------- | | | | |
| 27 | | hexane | | ----------NA---------- | | | | |
| 28 | | di-isopropyl ether | | ----------NA---------- | | | | |
| 29 | | ethyl tert-butyl ether | | ----------NA---------- | | | | |
| 30 | | 2-butanone | | ----------NA---------- | | | | |
| 31 | M | 1,1-dichloroethane | | ----------NA---------- | | | | |
| 32 | | chloroprene | | ----------NA---------- | | | | |
| 33 | | acrylonitrile | 0.184 | 0.147 | 20.1 | 79 | 0.00 | 3.07 |
| 34 | | vinyl acetate | | ----------NA---------- | | | | |
| 35 | | ethyl acetate | | ----------NA---------- | | | | |
| 36 | | 2,2-dichloropropane | | ----------NA---------- | | | | |
| 37 | | cis-1,2-dichloroethene | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** V1A9688-ICV9688
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1A226135.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 38 | | propionitrile | | ----------NA---------- | | | | | |
| 39 | | methyl acrylate | | ----------NA---------- | | | | | |
| 40 | | bromochloromethane | | ----------NA---------- | | | | | |
| 41 | | tetrahydrofuran | | ----------NA---------- | | | | | |
| 42 | | chloroform | | ----------NA---------- | | | | | |
| 43 | S | dibromofluoromethane (s) | 0.441 | 0.436 | 1.1 | 100 | 0.00 | 3.95 | |
| 44 | | methacrylonitrile | | ----------NA---------- | | | | | |
| 45 | | 1,1,1-trichloroethane | | ----------NA---------- | | | | | |
| 46 | | cyclohexane | | ----------NA---------- | | | | | |
| 47 | | 1,1-dichloropropene | | ----------NA---------- | | | | | |
| 48 | | carbon tetrachloride | | ----------NA---------- | | | | | |
| 49 | | isopropyl acetate | | ----------NA---------- | | | | | |
| 50 | | tert amyl alcohol | | ----------NA---------- | | | | | |
| 51 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 98 | 0.00 | 4.40 | |
| 52 | S | 1,2-dichloroethane-d4 (s) | 0.346 | 0.353 | -2.0 | 102 | 0.00 | 4.16 | |
| 53 | | tert-amyl methyl ether | | ----------NA---------- | | | | | |
| 54 | | 2,2,4-trimethylpentane | | ----------NA---------- | | | | | |
| | | ---------- | True | Calc. | % Drift | ---------- | | | |
| 55 | | n-butyl alcohol | | ----------NA---------- | | | | | |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | | |
| 56 | M | benzene | | ----------NA---------- | | | | | |
| 57 | | heptane | | ----------NA---------- | | | | | |
| 58 | | 1,2-dichloroethane | | ----------NA---------- | | | | | |
| 59 | | trichloroethene | | ----------NA---------- | | | | | |
| 60 | | ethyl acrylate | | ----------NA---------- | | | | | |
| 61 | | 2-nitropropane | | ----------NA---------- | | | | | |
| 62 | | 2-chloroethyl vinyl ether | | ----------NA---------- | | | | | |
| 63 | | methyl methacrylate | | ----------NA---------- | | | | | |
| 64 | | 1,2-dichloropropane | | ----------NA---------- | | | | | |
| 65 | | methylcyclohexane | | ----------NA---------- | | | | | |
| 66 | | dibromomethane | | ----------NA---------- | | | | | |
| 67 | | bromodichloromethane | | ----------NA---------- | | | | | |
| 68 | | cis-1,3-dichloropropene | | ----------NA---------- | | | | | |
| 69 | | epichlorohydrin | | ----------NA---------- | | | | | |
| 70 | | 4-methyl-2-pentanone | | ----------NA---------- | | | | | |
| | | ---------- | True | Calc. | % Drift | ---------- | | | |
| 71 | | 3-methyl-1-butanol | | ----------NA---------- | | | | | |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | | |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 91 | 0.00 | 6.29 | |
| 73 | S | toluene-d8 (s) | 1.345 | 1.360 | -1.1 | 96 | 0.00 | 5.32 | |
| 74 | | toluene | | ----------NA---------- | | | | | |
| 75 | | trans-1,3-dichloropropene | | ----------NA---------- | | | | | |
| 76 | | ethyl methacrylate | | ----------NA---------- | | | | | |
| 77 | | 1,1,2-trichloroethane | | ----------NA---------- | | | | | |
| 78 | | 2-hexanone | | ----------NA---------- | | | | | |
| 79 | | tetrachloroethene | 0.310 | 0.299 | 3.5 | 90 | 0.00 | 5.70 | |
| 80 | | 1,3-dichloropropane | | ----------NA---------- | | | | | |
| 81 | | butyl acetate | | ----------NA---------- | | | | | |
| 82 | | dibromochloromethane | | ----------NA---------- | | | | | |
| 83 | | 1,2-dibromoethane | | ----------NA---------- | | | | | |
| 84 | | n-butyl ether | | ----------NA---------- | | | | | |
| 85 | | chlorobenzene | | ----------NA---------- | | | | | |
| 86 | | 1,1,1,2-tetrachloroethane | | ----------NA---------- | | | | | |
| 87 | | ethylbenzene | | ----------NA---------- | | | | | |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** V1A9688-ICV9688
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1A226135.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 88 | | m,p-xylene | | ----------NA---------- | | | | |
| 89 | | o-xylene | | ----------NA---------- | | | | |
| 90 | | butyl acrylate | | ----------NA---------- | | | | |
| 91 | | n-amyl acetate | | ----------NA---------- | | | | |
| 92 | | styrene | | ----------NA---------- | | | | |
| 93 | | bromoform | | ----------NA---------- | | | | |
| 94 | | isopropylbenzene | | ----------NA---------- | | | | |
| 95 | | cis-1,4-dichloro-2-butene | | ----------NA---------- | | | | |
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 87 | 0.00 | 7.84 |
| 97 | S | 4-bromofluorobenzene (s) | 1.037 | 1.057 | -1.9 | 89 | 0.00 | 7.08 |
| 98 | | bromobenzene | | ----------NA---------- | | | | |
| 99 | | 1,1,2,2-tetrachloroethane | | ----------NA---------- | | | | |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 100 | | trans-1,4-dichloro-2-bute | | ----------NA---------- | | | | |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 101 | | 1,2,3-trichloropropane | | ----------NA---------- | | | | |
| 102 | | n-propylbenzene | | ----------NA---------- | | | | |
| 103 | | 2-chlorotoluene | | ----------NA---------- | | | | |
| 104 | | 4-chlorotoluene | | ----------NA---------- | | | | |
| 105 | | 1,3,5-trimethylbenzene | | ----------NA---------- | | | | |
| 106 | | tert-butylbenzene | | ----------NA---------- | | | | |
| 107 | | 1,2,4-trimethylbenzene | | ----------NA---------- | | | | |
| 108 | | sec-butylbenzene | | ----------NA---------- | | | | |
| 109 | | 1,3-dichlorobenzene | | ----------NA---------- | | | | |
| 110 | | p-isopropyltoluene | | ----------NA---------- | | | | |
| 111 | | 1,2,3-trimethylbenzene | 2.429 | 2.778 | -14.4 | 99 | 0.00 | 7.87 |
| 112 | | 1,4-dichlorobenzene | | ----------NA---------- | | | | |
| 113 | | 1,2-dichlorobenzene | | ----------NA---------- | | | | |
| 114 | | n-butylbenzene | | ----------NA---------- | | | | |
| 115 | | 1,2-dibromo-3-chloropropa | | ----------NA---------- | | | | |
| 116 | | 1,3,5-trichlorobenzene | | ----------NA---------- | | | | |
| 117 | | 1,2,4-trichlorobenzene | | ----------NA---------- | | | | |
| 118 | | hexachlorobutadiene | | ----------NA---------- | | | | |
| 119 | | naphthalene | | ----------NA---------- | | | | |
| 120 | | 1,2,3-trichlorobenzene | | ----------NA---------- | | | | |
| 121 | | hexachloroethane | | ----------NA---------- | | | | |
| 122 | | benzyl chloride | | ----------NA---------- | | | | |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 123 | | 2-methylnaphthalene | | ----------NA---------- | | | | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1A226129.D M1A9688.M Tue Sep 20 17:40:43 2022 1A

# Continuing Calibration Summary



**Job Number:** JD52507 **Sample:** V1A9698-CC9688
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1A226430.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\re...22\v1a9698\1a226430.d Vial: 2
Acq On : 27 Sep 2022 9:36 am Operator: nickw
Sample : CC9688-20 Inst : MSDTEST1A
Misc : MS62471, V1A9698,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M1A9688.M (RTE Integrator)
Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Wed Sep 21 12:03:58 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | tert Butyl Alcohol-d9 | 1.000 | 1.000 | 0.0 | 100 | 0.00 | 2.92 |
| 2 | 1,4-dioxane | 0.073 | 0.064 | 12.3 | 95 | 0.00 | 4.74 |
| 3 | ethanol | 0.062 | 0.054 | 12.9 | 87 | 0.00 | 2.41 |
| 4 M | tertiary butyl alcohol | 1.146 | 1.146 | 0.0 | 106 | 0.00 | 2.97 |
| 5 I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 126 | 0.00 | 3.93 |
| 6 | chlorodifluoromethane | 0.422 | 0.329 | 22.0# | 95 | 0.00 | 1.65 |
| 7 | dichlorodifluoromethane | 0.619 | 0.517 | 16.5 | 109 | 0.00 | 1.63 |
| 8 | chloromethane | 0.439 | 0.386 | 12.1 | 109 | 0.00 | 1.78 |
| 9 | vinyl chloride | 0.612 | 0.545 | 10.9 | 110 | 0.00 | 1.86 |
| 10 | 1,3-butadiene | 0.540 | 0.411 | 23.9# | 91 | 0.00 | 1.89 |
| | ---------- | True | Calc. | % Drift | ---------- | | |
| 11 | bromomethane | 20.000 | 17.826 | 10.9 | 111 | 0.00 | 2.10 |
| | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 12 | chloroethane | 0.405 | 0.345 | 14.8 | 111 | 0.00 | 2.17 |
| 13 | trichlorofluoromethane | 0.745 | 0.721 | 3.2 | 121 | 0.00 | 2.34 |
| 14 | ethyl ether | 0.237 | 0.231 | 2.5 | 123 | 0.00 | 2.50 |
| 15 | acrolein | 0.078 | 0.081 | -3.8 | 119 | 0.00 | 2.59 |
| 16 | freon 113 | 0.313 | 0.303 | 3.2 | 121 | 0.00 | 2.66 |
| 17 | 1,1-dichloroethene | 0.348 | 0.334 | 4.0 | 120 | 0.00 | 2.66 |
| 18 | acetone | 0.044 | 0.044 | 0.0 | 122 | 0.00 | 2.67 |
| 19 | acetonitrile | 0.030 | 0.028 | 6.7 | 115 | 0.00 | 2.84 |
| 20 | iodomethane | 0.186 | 0.131 | 29.6# | 112 | 0.00 | 2.76 |
| 21 | iso-butyl alcohol | 0.039 | 0.036 | 7.7 | 115 | 0.00 | 2.84 |
| 22 | carbon disulfide | 1.040 | 0.928 | 10.8 | 115 | 0.00 | 2.82 |
| 23 | methylene chloride | 0.408 | 0.376 | 7.8 | 122 | 0.00 | 2.94 |
| 24 | methyl acetate | 0.097 | 0.098 | -1.0 | 123 | 0.00 | 2.85 |
| 25 | methyl tert butyl ether | 1.219 | 1.198 | 1.7 | 124 | 0.00 | 3.09 |
| 26 | trans-1,2-dichloroethene | 0.372 | 0.366 | 1.6 | 124 | 0.00 | 3.10 |
| 27 | hexane | 0.489 | 0.460 | 5.9 | 120 | 0.00 | 3.26 |
| 28 | di-isopropyl ether | 1.132 | 1.092 | 3.5 | 119 | 0.00 | 3.34 |
| 29 | ethyl tert-butyl ether | 1.173 | 1.137 | 3.1 | 120 | 0.00 | 3.55 |
| 30 | 2-butanone | 0.069 | 0.064 | 7.2 | 115 | 0.00 | 3.65 |
| 31 M | 1,1-dichloroethane | 0.680 | 0.656 | 3.5 | 121 | 0.00 | 3.35 |
| 32 | chloroprene | 0.538 | 0.510 | 5.2 | 119 | 0.00 | 3.40 |
| 33 | acrylonitrile | 0.184 | 0.180 | 2.2 | 126 | 0.00 | 3.07 |
| 34 | vinyl acetate | 0.095 | 0.094 | 1.1 | 126 | 0.00 | 3.33 |
| 35 | ethyl acetate | 0.081 | 0.083 | -2.5 | 131 | 0.00 | 3.65 |
| 36 | 2,2-dichloropropane | 0.475 | 0.570 | -20.0 | 149 | 0.00 | 3.69 |
| 37 | cis-1,2-dichloroethene | 0.417 | 0.423 | -1.4 | 126 | 0.00 | 3.68 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** V1A9698-CC9688
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1A226430.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | | propionitrile | 0.072 | 0.070 | 2.8 | 120 | 0.00 | 3.69 |
| 39 | | methyl acrylate | 0.092 | 0.089 | 3.3 | 118 | 0.00 | 3.69 |
| 40 | | bromochloromethane | 0.212 | 0.215 | -1.4 | 129 | 0.00 | 3.82 |
| 41 | | tetrahydrofuran | 0.087 | 0.080 | 8.0 | 114 | 0.00 | 3.83 |
| 42 | | chloroform | 0.757 | 0.707 | 6.6 | 124 | 0.00 | 3.86 |
| 43 | S | dibromofluoromethane (s) | 0.441 | 0.433 | 1.8 | 123 | 0.00 | 3.95 |
| 44 | | methacrylonitrile | 0.224 | 0.208 | 7.1 | 118 | 0.00 | 3.78 |
| 45 | | 1,1,1-trichloroethane | 0.624 | 0.606 | 2.9 | 125 | 0.00 | 3.98 |
| 46 | | cyclohexane | 0.590 | 0.526 | 10.8 | 115 | 0.00 | 4.03 |
| 47 | | 1,1-dichloropropene | 0.543 | 0.515 | 5.2 | 123 | 0.00 | 4.07 |
| 48 | | carbon tetrachloride | 0.536 | 0.533 | 0.6 | 125 | 0.00 | 4.07 |
| 49 | | isopropyl acetate | 0.116 | 0.114 | 1.7 | 121 | 0.00 | 4.15 |
| 50 | | tert amyl alcohol | 0.022 | 0.020 | 9.1 | 110 | 0.00 | 4.13 |
| 51 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 124 | 0.00 | 4.40 |
| 52 | S | 1,2-dichloroethane-d4 (s) | 0.346 | 0.332 | 4.0 | 118 | 0.00 | 4.16 |
| 53 | | tert-amyl methyl ether | 0.822 | 0.800 | 2.7 | 122 | 0.00 | 4.23 |
| 54 | | 2,2,4-trimethylpentane | 0.656 | 0.629 | 4.1 | 121 | 0.00 | 4.23 |

| | | | True | Calc. | % Drift | | | |
|---|---|---|---|---|---|---|---|---|
| 55 | | n-butyl alcohol | 1000.000 | 796.311 | 20.4# | 99 | 0.00 | 4.44 |

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 56 | M | benzene | 1.033 | 1.017 | 1.5 | 123 | 0.00 | 4.19 |
| 57 | | heptane | 0.127 | 0.126 | 0.8 | 127 | 0.00 | 4.31 |
| 58 | | 1,2-dichloroethane | 0.377 | 0.380 | -0.8 | 129 | 0.00 | 4.20 |
| 59 | | trichloroethene | 0.275 | 0.277 | -0.7 | 129 | 0.00 | 4.56 |
| 60 | | ethyl acrylate | 0.411 | 0.409 | 0.5 | 122 | 0.00 | 4.56 |
| 61 | | 2-nitropropane | 0.118 | 0.114 | 3.4 | 118 | 0.00 | 4.99 |
| 62 | | 2-chloroethyl vinyl ether | 0.062 | 0.069 | -11.3 | 127 | 0.00 | 5.01 |
| 63 | | methyl methacrylate | 0.094 | 0.097 | -3.2 | 125 | 0.00 | 4.71 |
| 64 | | 1,2-dichloropropane | 0.265 | 0.250 | 5.7 | 117 | 0.00 | 4.72 |
| 65 | | methylcyclohexane | 0.422 | 0.416 | 1.4 | 122 | 0.00 | 4.72 |
| 66 | | dibromomethane | 0.191 | 0.189 | 1.0 | 124 | 0.00 | 4.78 |
| 67 | | bromodichloromethane | 0.390 | 0.387 | 0.8 | 129 | 0.00 | 4.87 |
| 68 | | cis-1,3-dichloropropene | 0.429 | 0.434 | -1.2 | 127 | 0.00 | 5.13 |
| 69 | | epichlorohydrin | 0.019 | 0.019 | 0.0 | 116 | 0.00 | 5.06 |
| 70 | | 4-methyl-2-pentanone | 0.138 | 0.136 | 1.4 | 119 | 0.00 | 5.20 |

| | | | True | Calc. | % Drift | | | |
|---|---|---|---|---|---|---|---|---|
| 71 | | 3-methyl-1-butanol | 400.000 | 322.043 | 19.5 | 104 | 0.00 | 5.21 |

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 122 | 0.00 | 6.29 |
| 73 | S | toluene-d8 (s) | 1.345 | 1.322 | 1.7 | 122 | 0.00 | 5.32 |
| 74 | | toluene | 0.732 | 0.758 | -3.6 | 128 | 0.00 | 5.36 |
| 75 | | trans-1,3-dichloropropene | 0.422 | 0.454 | -7.6 | 126 | 0.00 | 5.49 |
| 76 | | ethyl methacrylate | 0.436 | 0.464 | -6.4 | 123 | 0.00 | 5.49 |
| 77 | | 1,1,2-trichloroethane | 0.255 | 0.259 | -1.6 | 130 | 0.00 | 5.62 |
| 78 | | 2-hexanone | 0.155 | 0.155 | 0.0 | 116 | 0.00 | 5.74 |
| 79 | | tetrachloroethene | 0.310 | 0.331 | -6.8 | 133 | 0.00 | 5.70 |
| 80 | | 1,3-dichloropropane | 0.492 | 0.503 | -2.2 | 125 | 0.00 | 5.74 |
| 81 | | butyl acetate | 0.217 | 0.227 | -4.6 | 121 | 0.00 | 5.80 |
| 82 | | dibromochloromethane | 0.348 | 0.347 | 0.3 | 128 | 0.00 | 5.89 |
| 83 | | 1,2-dibromoethane | 0.328 | 0.331 | -0.9 | 126 | 0.00 | 5.98 |
| 84 | | n-butyl ether | 1.070 | 1.082 | -1.1 | 117 | 0.00 | 6.32 |
| 85 | | chlorobenzene | 0.827 | 0.827 | 0.0 | 125 | 0.00 | 6.31 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.284 | 0.291 | -2.5 | 129 | 0.00 | 6.36 |
| 87 | | ethylbenzene | 1.382 | 1.385 | -0.2 | 125 | 0.00 | 6.36 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** V1A9698-CC9688
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1A226430.D
**Project:** EPT, Ithaca, NY

| | | | True | Calc. | % Drift | | | |
|---|---|---|---|---|---|---|---|---|
| 88 | | m,p-xylene | 0.514 | 0.539 | -4.9 | 128 | 0.00 | 6.45 |
| 89 | | o-xylene | 0.512 | 0.536 | -4.7 | 125 | 0.00 | 6.72 |
| 90 | | butyl acrylate | 0.562 | 0.607 | -8.0 | 120 | 0.00 | 6.64 |
| 91 | | n-amyl acetate | 0.222 | 0.235 | -5.9 | 123 | 0.00 | 6.78 |
| 92 | | styrene | 0.837 | 0.899 | -7.4 | 122 | 0.00 | 6.73 |
| 93 | | bromoform | 0.232 | 0.226 | 2.6 | 123 | 0.00 | 6.87 |
| 94 | | isopropylbenzene | 1.297 | 1.355 | -4.5 | 128 | 0.00 | 6.96 |
| 95 | | cis-1,4-dichloro-2-butene | 0.112 | 0.104 | 7.1 | 118 | 0.00 | 6.99 |
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 123 | 0.00 | 7.84 |
| 97 | S | 4-bromofluorobenzene (s) | 1.037 | 1.031 | 0.6 | 121 | 0.00 | 7.08 |
| 98 | | bromobenzene | 0.798 | 0.836 | -4.8 | 128 | 0.00 | 7.19 |
| 99 | | 1,1,2,2-tetrachloroethane | 1.049 | 1.016 | 3.1 | 118 | 0.00 | 7.15 |
| 100 | | trans-1,4-dichloro-2-bute | 0.208 | 0.200 | 3.8 | 117 | 0.00 | 7.18 |
| 101 | | 1,2,3-trichloropropane | 0.320 | 0.326 | -1.9 | 127 | 0.00 | 7.20 |
| 102 | | n-propylbenzene | 3.519 | 3.655 | -3.9 | 128 | 0.00 | 7.23 |
| 103 | | 2-chlorotoluene | 0.734 | 0.765 | -4.2 | 128 | 0.00 | 7.31 |
| 104 | | 4-chlorotoluene | 0.745 | 0.760 | -2.0 | 126 | 0.00 | 7.39 |
| 105 | | 1,3,5-trimethylbenzene | 2.381 | 2.486 | -4.4 | 128 | 0.00 | 7.35 |
| 106 | | tert-butylbenzene | 2.077 | 2.199 | -5.9 | 129 | 0.00 | 7.56 |
| 107 | | 1,2,4-trimethylbenzene | 2.399 | 2.535 | -5.7 | 127 | 0.00 | 7.60 |
| 108 | | sec-butylbenzene | 2.890 | 3.060 | -5.9 | 127 | 0.00 | 7.70 |
| 109 | | 1,3-dichlorobenzene | 1.311 | 1.383 | -5.5 | 127 | 0.00 | 7.80 |
| 110 | | p-isopropyltoluene | 2.344 | 2.592 | -10.6 | 130 | 0.00 | 7.80 |
| 111 | | 1,2,3-trimethylbenzene | 2.429 | 2.513 | -3.5 | 126 | 0.00 | 7.87 |
| 112 | | 1,4-dichlorobenzene | 1.395 | 1.426 | -2.2 | 129 | 0.00 | 7.86 |
| 113 | | 1,2-dichlorobenzene | 1.254 | 1.327 | -5.8 | 127 | 0.00 | 8.09 |
| 114 | | n-butylbenzene | 1.023 | 1.161 | -13.5 | 133 | 0.00 | 8.05 |
| 115 | | 1,2-dibromo-3-chloropropa | 0.232 | 0.238 | -2.6 | 122 | 0.00 | 8.57 |
| 116 | | 1,3,5-trichlorobenzene | 0.752 | 0.838 | -11.4 | 137 | 0.00 | 8.68 |
| 117 | | 1,2,4-trichlorobenzene | 0.619 | 0.710 | -14.7 | 133 | 0.00 | 9.05 |
| 118 | | hexachlorobutadiene | 0.229 | 0.248 | -8.3 | 131 | 0.00 | 9.13 |
| 119 | | naphthalene | 2.173 | 2.289 | -5.3 | 123 | 0.00 | 9.22 |
| 120 | | 1,2,3-trichlorobenzene | 0.535 | 0.563 | -5.2 | 124 | 0.00 | 9.36 |
| 121 | | hexachloroethane | 0.369 | 0.391 | -6.0 | 130 | 0.00 | 8.26 |
| 122 | | benzyl chloride | 1.183 | 1.579 | -33.5# | 164 | 0.00 | 7.92 |
| 123 | | 2-methylnaphthalene | 10.000 | 8.191 | 18.1 | 91 | 0.00 | 9.99 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1A226128.D M1A9688.M Tue Sep 27 22:18:54 2022

# Continuing Calibration Summary



**Job Number:** JD52507 **Sample:** V1A9705-CC9688
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1A226605.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\re...22\v1a9705\1a226605.d Vial: 2
Acq On : 30 Sep 2022 10:42 am Operator: nickw
Sample : CC9688-20 Inst : MSDTEST1A
Misc : MS62579, V1A9705,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M1A9688.M (RTE Integrator)
Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Thu Sep 29 14:48:46 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | tert Butyl Alcohol-d9 | 1.000 | 1.000 | 0.0 | 109 | 0.00 | 2.92 |
| 2 | 1,4-dioxane | 0.073 | 0.069 | 5.5 | 111 | 0.00 | 4.74 |
| 3 | ethanol | 0.062 | 0.067 | -8.1 | 118 | 0.00 | 2.41 |
| 4 M | tertiary butyl alcohol | 1.146 | 1.177 | -2.7 | 119 | 0.00 | 2.96 |
| 5 I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 117 | 0.00 | 3.93 |
| 6 | chlorodifluoromethane | 0.422 | 0.256 | 39.3# | 69 | 0.00 | 1.64 |
| 7 | dichlorodifluoromethane | 0.619 | 0.596 | 3.7 | 117 | 0.00 | 1.63 |
| 8 | chloromethane | 0.439 | 0.449 | -2.3 | 118 | 0.00 | 1.78 |
| 9 | vinyl chloride | 0.612 | 0.651 | -6.4 | 123 | 0.00 | 1.86 |
| 10 | 1,3-butadiene | 0.540 | 0.347 | 35.7# | 71 | 0.00 | 1.89 |
| | ---------- | True | Calc. | % Drift | ---------- | | |
| 11 | bromomethane | 20.000 | 21.576 | -7.9 | 128 | 0.00 | 2.10 |
| | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 12 | chloroethane | 0.405 | 0.439 | -8.4 | 131 | 0.00 | 2.17 |
| 13 | trichlorofluoromethane | 0.745 | 0.854 | -14.6 | 134 | 0.00 | 2.33 |
| 14 | ethyl ether | 0.237 | 0.249 | -5.1 | 123 | 0.00 | 2.50 |
| 15 | acrolein | 0.078 | 0.080 | -2.6 | 111 | 0.00 | 2.59 |
| 16 | freon 113 | 0.313 | 0.326 | -4.2 | 121 | 0.00 | 2.66 |
| 17 | 1,1-dichloroethene | 0.348 | 0.343 | 1.4 | 115 | 0.00 | 2.66 |
| 18 | acetone | 0.044 | 0.048 | -9.1 | 123 | 0.00 | 2.67 |
| 19 | acetonitrile | 0.030 | 0.032 | -6.7 | 123 | 0.00 | 2.83 |
| 20 | iodomethane | 0.186 | 0.172 | 7.5 | 137 | 0.00 | 2.76 |
| 21 | iso-butyl alcohol | 0.039 | 0.040 | -2.6 | 119 | 0.00 | 2.84 |
| 22 | carbon disulfide | 1.040 | 0.911 | 12.4 | 105 | 0.00 | 2.82 |
| 23 | methylene chloride | 0.408 | 0.412 | -1.0 | 125 | 0.00 | 2.94 |
| 24 | methyl acetate | 0.097 | 0.101 | -4.1 | 118 | 0.00 | 2.84 |
| 25 | methyl tert butyl ether | 1.219 | 1.272 | -4.3 | 122 | 0.00 | 3.09 |
| 26 | trans-1,2-dichloroethene | 0.372 | 0.395 | -6.2 | 125 | 0.00 | 3.10 |
| 27 | hexane | 0.489 | 0.455 | 7.0 | 110 | 0.00 | 3.26 |
| 28 | di-isopropyl ether | 1.132 | 1.226 | -8.3 | 125 | 0.00 | 3.35 |
| 29 | ethyl tert-butyl ether | 1.173 | 1.193 | -1.7 | 117 | 0.00 | 3.55 |
| 30 | 2-butanone | 0.069 | 0.069 | 0.0 | 115 | 0.00 | 3.65 |
| 31 M | 1,1-dichloroethane | 0.680 | 0.715 | -5.1 | 123 | 0.00 | 3.35 |
| 32 | chloroprene | 0.538 | 0.565 | -5.0 | 123 | 0.00 | 3.40 |
| 33 | acrylonitrile | 0.184 | 0.168 | 8.7 | 110 | 0.00 | 3.07 |
| 34 | vinyl acetate | 0.095 | 0.099 | -4.2 | 123 | 0.00 | 3.33 |
| 35 | ethyl acetate | 0.081 | 0.087 | -7.4 | 129 | 0.00 | 3.66 |
| 36 | 2,2-dichloropropane | 0.475 | 0.597 | -25.7# | 145 | 0.00 | 3.69 |
| 37 | cis-1,2-dichloroethene | 0.417 | 0.448 | -7.4 | 125 | 0.00 | 3.68 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** V1A9705-CC9688
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1A226605.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | | propionitrile | 0.072 | 0.076 | -5.6 | 120 | 0.00 | 3.69 |
| 39 | | methyl acrylate | 0.092 | 0.099 | -7.6 | 123 | 0.00 | 3.69 |
| 40 | | bromochloromethane | 0.212 | 0.219 | -3.3 | 123 | 0.00 | 3.82 |
| 41 | | tetrahydrofuran | 0.087 | 0.088 | -1.1 | 117 | 0.00 | 3.83 |
| 42 | | chloroform | 0.757 | 0.769 | -1.6 | 125 | 0.00 | 3.86 |
| 43 | S | dibromofluoromethane (s) | 0.441 | 0.428 | 2.9 | 113 | 0.00 | 3.95 |
| 44 | | methacrylonitrile | 0.224 | 0.233 | -4.0 | 123 | 0.00 | 3.78 |
| 45 | | 1,1,1-trichloroethane | 0.624 | 0.649 | -4.0 | 125 | 0.00 | 3.98 |
| 46 | | cyclohexane | 0.590 | 0.607 | -2.9 | 124 | 0.00 | 4.03 |
| 47 | | 1,1-dichloropropene | 0.543 | 0.550 | -1.3 | 123 | 0.00 | 4.06 |
| 48 | | carbon tetrachloride | 0.536 | 0.577 | -7.6 | 126 | 0.00 | 4.07 |
| 49 | | isopropyl acetate | 0.116 | 0.119 | -2.6 | 117 | 0.00 | 4.15 |
| 50 | | tert amyl alcohol | 0.022 | 0.021 | 4.5 | 108 | 0.00 | 4.13 |
| 51 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 116 | 0.00 | 4.40 |
| 52 | S | 1,2-dichloroethane-d4 (s) | 0.346 | 0.360 | -4.0 | 120 | 0.00 | 4.16 |
| 53 | | tert-amyl methyl ether | 0.822 | 0.818 | 0.5 | 117 | 0.00 | 4.22 |
| 54 | | 2,2,4-trimethylpentane | 0.656 | 0.530 | 19.2 | 96 | 0.00 | 4.23 |

| | | | True | Calc. | % Drift | | | |
|---|---|---|---|---|---|---|---|---|
| 55 | | n-butyl alcohol | 1000.000 | 928.582 | 7.1 | 110 | 0.00 | 4.44 |

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 56 | M | benzene | 1.033 | 1.096 | -6.1 | 124 | 0.00 | 4.19 |
| 57 | | heptane | 0.127 | 0.104 | 18.1 | 98 | 0.00 | 4.32 |
| 58 | | 1,2-dichloroethane | 0.377 | 0.404 | -7.2 | 127 | 0.00 | 4.20 |
| 59 | | trichloroethene | 0.275 | 0.293 | -6.5 | 128 | 0.00 | 4.56 |
| 60 | | ethyl acrylate | 0.411 | 0.435 | -5.8 | 122 | 0.00 | 4.56 |
| 61 | | 2-nitropropane | 0.118 | 0.108 | 8.5 | 105 | 0.00 | 4.99 |
| 62 | | 2-chloroethyl vinyl ether | 0.062 | 0.019 | 69.4# | 33# | 0.00 | 5.01 |
| 63 | | methyl methacrylate | 0.094 | 0.102 | -8.5 | 122 | 0.00 | 4.71 |
| 64 | | 1,2-dichloropropane | 0.265 | 0.276 | -4.2 | 121 | 0.00 | 4.72 |
| 65 | | methylcyclohexane | 0.422 | 0.384 | 9.0 | 106 | 0.00 | 4.72 |
| 66 | | dibromomethane | 0.191 | 0.201 | -5.2 | 123 | 0.00 | 4.77 |
| 67 | | bromodichloromethane | 0.390 | 0.403 | -3.3 | 125 | 0.00 | 4.87 |
| 68 | | cis-1,3-dichloropropene | 0.429 | 0.468 | -9.1 | 128 | 0.00 | 5.13 |
| 69 | | epichlorohydrin | 0.019 | 0.018 | 5.3 | 104 | 0.00 | 5.06 |
| 70 | | 4-methyl-2-pentanone | 0.138 | 0.144 | -4.3 | 117 | 0.00 | 5.20 |

| | | | True | Calc. | % Drift | | | |
|---|---|---|---|---|---|---|---|---|
| 71 | | 3-methyl-1-butanol | 400.000 | 351.110 | 12.2 | 106 | 0.00 | 5.21 |

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 114 | 0.00 | 6.29 |
| 73 | S | toluene-d8 (s) | 1.345 | 1.322 | 1.7 | 114 | 0.00 | 5.31 |
| 74 | | toluene | 0.732 | 0.793 | -8.3 | 126 | 0.00 | 5.36 |
| 75 | | trans-1,3-dichloropropene | 0.422 | 0.472 | -11.8 | 123 | 0.00 | 5.49 |
| 76 | | ethyl methacrylate | 0.436 | 0.486 | -11.5 | 121 | 0.00 | 5.49 |
| 77 | | 1,1,2-trichloroethane | 0.255 | 0.262 | -2.7 | 123 | 0.00 | 5.62 |
| 78 | | 2-hexanone | 0.155 | 0.160 | -3.2 | 113 | 0.00 | 5.74 |
| 79 | | tetrachloroethene | 0.310 | 0.330 | -6.5 | 124 | 0.00 | 5.70 |
| 80 | | 1,3-dichloropropane | 0.492 | 0.521 | -5.9 | 121 | 0.00 | 5.74 |
| 81 | | butyl acetate | 0.217 | 0.239 | -10.1 | 119 | 0.00 | 5.80 |
| 82 | | dibromochloromethane | 0.348 | 0.359 | -3.2 | 124 | 0.00 | 5.89 |
| 83 | | 1,2-dibromoethane | 0.328 | 0.346 | -5.5 | 123 | 0.00 | 5.98 |
| 84 | | n-butyl ether | 1.070 | 1.163 | -8.7 | 118 | 0.00 | 6.32 |
| 85 | | chlorobenzene | 0.827 | 0.839 | -1.5 | 119 | 0.00 | 6.31 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.284 | 0.300 | -5.6 | 125 | 0.00 | 6.36 |
| 87 | | ethylbenzene | 1.382 | 1.419 | -2.7 | 120 | 0.00 | 6.36 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** V1A9705-CC9688
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1A226605.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 88 | | m,p-xylene | 0.514 | 0.537 | -4.5 | 119 | 0.00 | 6.45 |
| 89 | | o-xylene | 0.512 | 0.542 | -5.9 | 119 | 0.00 | 6.72 |
| 90 | | butyl acrylate | 0.562 | 0.634 | -12.8 | 118 | 0.00 | 6.64 |
| 91 | | n-amyl acetate | 0.222 | 0.237 | -6.8 | 116 | 0.00 | 6.78 |
| 92 | | styrene | 0.837 | 0.928 | -10.9 | 118 | 0.00 | 6.73 |
| 93 | | bromoform | 0.232 | 0.237 | -2.2 | 121 | 0.00 | 6.87 |
| 94 | | isopropylbenzene | 1.297 | 1.305 | -0.6 | 115 | 0.00 | 6.96 |
| 95 | | cis-1,4-dichloro-2-butene | 0.112 | 0.105 | 6.3 | 112 | 0.00 | 6.99 |
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 112 | 0.00 | 7.84 |
| 97 | S | 4-bromofluorobenzene (s) | 1.037 | 1.019 | 1.7 | 109 | 0.00 | 7.08 |
| 98 | | bromobenzene | 0.798 | 0.844 | -5.8 | 118 | 0.00 | 7.19 |
| 99 | | 1,1,2,2-tetrachloroethane | 1.049 | 1.059 | -1.0 | 112 | 0.00 | 7.15 |
| 100 | | trans-1,4-dichloro-2-bute | 0.208 | 0.196 | 5.8 | 105 | 0.00 | 7.18 |
| 101 | | 1,2,3-trichloropropane | 0.320 | 0.323 | -0.9 | 115 | 0.00 | 7.20 |
| 102 | | n-propylbenzene | 3.519 | 3.537 | -0.5 | 113 | 0.00 | 7.23 |
| 103 | | 2-chlorotoluene | 0.734 | 0.731 | 0.4 | 111 | 0.00 | 7.31 |
| 104 | | 4-chlorotoluene | 0.745 | 0.773 | -3.8 | 118 | 0.00 | 7.39 |
| 105 | | 1,3,5-trimethylbenzene | 2.381 | 2.352 | 1.2 | 111 | 0.00 | 7.35 |
| 106 | | tert-butylbenzene | 2.077 | 1.960 | 5.6 | 105 | 0.00 | 7.56 |
| 107 | | 1,2,4-trimethylbenzene | 2.399 | 2.368 | 1.3 | 108 | 0.00 | 7.60 |
| 108 | | sec-butylbenzene | 2.890 | 2.685 | 7.1 | 102 | 0.00 | 7.70 |
| 109 | | 1,3-dichlorobenzene | 1.311 | 1.343 | -2.4 | 113 | 0.00 | 7.80 |
| 110 | | p-isopropyltoluene | 2.344 | 2.273 | 3.0 | 104 | 0.00 | 7.79 |
| 111 | | 1,2,3-trimethylbenzene | 2.429 | 2.424 | 0.2 | 111 | 0.00 | 7.87 |
| 112 | | 1,4-dichlorobenzene | 1.395 | 1.377 | 1.3 | 114 | 0.00 | 7.86 |
| 113 | | 1,2-dichlorobenzene | 1.254 | 1.291 | -3.0 | 113 | 0.00 | 8.09 |
| 114 | | n-butylbenzene | 1.023 | 0.981 | 4.1 | 102 | 0.00 | 8.05 |
| 115 | | 1,2-dibromo-3-chloropropa | 0.232 | 0.238 | -2.6 | 112 | 0.00 | 8.57 |
| 116 | | 1,3,5-trichlorobenzene | 0.752 | 0.728 | 3.2 | 109 | 0.00 | 8.68 |
| 117 | | 1,2,4-trichlorobenzene | 0.619 | 0.589 | 4.8 | 101 | 0.00 | 9.05 |
| 118 | | hexachlorobutadiene | 0.229 | 0.220 | 3.9 | 106 | 0.00 | 9.13 |
| 119 | | naphthalene | 2.173 | 2.130 | 2.0 | 104 | 0.00 | 9.22 |
| 120 | | 1,2,3-trichlorobenzene | 0.535 | 0.496 | 7.3 | 100 | 0.00 | 9.36 |
| 121 | | hexachloroethane | 0.369 | 0.333 | 9.8 | 102 | 0.00 | 8.26 |
| 122 | | benzyl chloride | 1.183 | 1.506 | -27.3# | 143 | 0.00 | 7.92 |
| | | ---------- True | Calc. | % Drift | ---------- | | | |
| 123 | | 2-methylnaphthalene | 10.000 | 7.229 | 27.7# | 72 | 0.00 | 9.99 |
| | | ---------- AvgRF | CCRF | % Dev | ---------- | | | |
| 124 | | pentafluorobenzene(a) | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 3.93 |
| 125 | | vinyl bromide | ----------NA---------- | | | | | |
| | | ---------- True | Calc. | % Drift | ---------- | | | |
| 126 | | allyl chloride | ----------NA---------- | | | | | |
| | | ---------- AvgRF | CCRF | % Dev | ---------- | | | |
| 127 | | 1,4-dichlorobenzene-d4(a) | 1.000 | 1.000 | 0.0 | 111 | 0.00 | 7.84 |
| 128 | | 4-ethyltoluene | ----------NA---------- | | | | | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1A226128.D M1A9688.M Mon Oct 03 07:25:13 2022

# Initial Calibration Summary



**Job Number:** JD52507 **Sample:** V1X8636-ICC8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200562.D
**Project:** EPT, Ithaca, NY

Response Factor Report ACC-VOA-M

Method : C:\MSDCHEM\1\METHODS\M1X8636.M (RTE Integrator)
Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
Last Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

Calibration Files
1 =1X200552.D 2 =1X200554.D 100 =1X200564.D 50 =1X200562.D
20 =1X200560.D 200 =1X200566.D 4 =1X200556.D 8 =1X200558.D
0.5 =1X200550.D 0.2 =1X200548.D = =

| Compound | 1 | 2 | 100 | 50 | 20 | 200 | 4 | 8 | 0.5 | 0.2 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) I tert butyl alcohol-d9 ----------ISTD---------- | | | | | | | | | | | | |
| 2) ethanol | 0.065 | 0.055 | 0.040 | 0.045 | 0.046 | 0.034 | 0.051 | 0.046 | | | 0.048 | 19.62 |
| 3) tertiary butyl alcohol | 0.864 | 0.783 | 0.739 | 0.757 | 0.737 | 0.714 | 0.738 | 0.719 | | | 0.756 | 6.44 |
| 4) 1,4-dioxane | 0.048 | 0.060 | 0.062 | 0.064 | 0.062 | 0.063 | 0.061 | 0.061 | | | 0.060 | 8.20 |
| 5) I pentafluorobenzene ----------ISTD---------- | | | | | | | | | | | | |
| 6) chlorodifluoromethane | 0.469 | 0.445 | 0.389 | 0.412 | 0.415 | 0.367 | 0.426 | 0.414 | 0.451 | 0.475 | 0.426 | 8.02 |
| 7) dichlorodifluoromethane | 0.456 | 0.400 | 0.386 | 0.406 | 0.398 | 0.359 | 0.419 | 0.402 | 0.377 | | 0.400 | 6.82 |
| 8) chloromethane | 0.504 | 0.441 | 0.387 | 0.419 | 0.402 | 0.358 | 0.421 | 0.411 | | | 0.418 | 10.17 |
| 9) vinyl chloride | 0.473 | 0.438 | 0.419 | 0.455 | 0.438 | 0.391 | 0.449 | 0.432 | 0.477 | | 0.441 | 6.03 |
| 10) bromomethane | 0.060 | 0.057 | 0.064 | 0.071 | 0.064 | 0.048 | 0.060 | 0.066 | | | 0.061 | 10.98 |
| 11) chloroethane | 0.233 | 0.201 | 0.147 | 0.184 | 0.188 | | 0.213 | 0.201 | | | 0.195 | 13.70 |
| 12) trichlorofluoromethane | 0.636 | 0.578 | 0.587 | 0.623 | 0.580 | 0.527 | 0.585 | 0.580 | 0.523 | 0.557 | 0.578 | 6.20 |
| 13) 1,3-butadiene *This compound fails Initial Calibration criteria* | | | | | | | | | | | | |
| | 0.324 | 0.357 | 0.370 | 0.290 | 0.394 | 0.380 | | | | | 0.352 | 11.02 |
| 14) ethyl ether | 0.157 | 0.149 | 0.143 | 0.151 | 0.147 | 0.139 | 0.154 | 0.143 | 0.141 | | 0.147 | 4.22 |
| 15) acrolein | 0.097 | 0.083 | 0.085 | 0.088 | 0.080 | 0.080 | 0.072 | 0.080 | | | 0.083 | 9.08 |
| 16) 1,1-dichloroethene | 0.281 | 0.289 | 0.282 | 0.289 | 0.282 | 0.274 | 0.278 | 0.273 | 0.294 | 0.249 | 0.279 | 4.48 |
| 17) freon 113 | 0.347 | 0.358 | 0.347 | 0.347 | 0.339 | 0.331 | 0.342 | 0.332 | 0.348 | 0.313 | 0.340 | 3.68 |
| 18) acetone | 0.054 | 0.050 | 0.044 | 0.046 | 0.046 | 0.041 | 0.046 | 0.044 | 0.055 | | 0.047 | 9.79 |
| 19) acetonitrile | 0.078 | 0.071 | 0.059 | 0.063 | 0.064 | 0.055 | 0.069 | 0.066 | | | 0.066 | 10.85 |
| 20) iodomethane *This compound fails Initial Calibration criteria* | | | | | | | | | | | | |
| | 0.033 | 0.229 | 0.195 | 0.103 | 0.236 | 0.041 | 0.059 | | | | 0.128 | 70.13 |
| 21) carbon disulfide | 0.744 | 0.675 | 0.720 | 0.728 | 0.698 | 0.722 | 0.663 | 0.648 | 0.716 | | 0.701 | 4.67 |
| 22) methylene chloride | 0.316 | 0.273 | 0.255 | 0.272 | 0.271 | 0.247 | 0.270 | 0.260 | 0.271 | | 0.271 | 7.10 |
| 23) methyl acetate | | | | | | | | | | | | |

```
            0.435 0.371 0.396 0.373 0.350 0.398 0.372              0.385    7.16
24)  methyl tert butyl ether
      0.898 0.799 0.798 0.827 0.789 0.787 0.784 0.783 0.783 0.812  0.806    4.37
25)  acrylonitrile
      0.198 0.181 0.179 0.186 0.177 0.170 0.173 0.177 0.167        0.179    5.20
26)  trans-1,2-dichloroethene
      0.319 0.313 0.298 0.304 0.302 0.296 0.296 0.290 0.303        0.302    3.01
27)  hexane
      0.499 0.497 0.472 0.474 0.459 0.446 0.459 0.436 0.477 0.549  0.477    6.76
28)  di-isopropyl ether
      1.083 0.999 0.997 1.029 0.999 0.975 0.982 0.949 1.052 0.983  1.005    3.93
29)  2-butanone
      0.058 0.052 0.053 0.056 0.053 0.051 0.051 0.050 0.047        0.052    6.34
30)  1,1-dichloroethane
      0.589 0.534 0.514 0.530 0.524 0.506 0.530 0.517 0.526 0.473  0.524    5.50
31)  chloroprene
      0.527 0.511 0.510 0.523 0.520 0.498 0.486 0.475 0.423 0.489  0.496    6.26
32)  vinyl acetate
      0.054 0.054 0.063 0.065 0.058 0.061 0.054 0.058              0.058    7.59
33)  ethyl tert-butyl ether
      0.951 0.896 0.906 0.933 0.894 0.893 0.869 0.853 0.842 0.936  0.897    4.00
34)  ethyl acetate
      0.083 0.075 0.082 0.085 0.076 0.077 0.071 0.074 0.089        0.079    7.26
35)  2,2-dichloropropane
      0.461 0.438 0.435 0.435 0.423 0.431 0.410 0.402 0.442 0.473  0.435    4.85
36)  cis-1,2-dichloroethene
      0.358 0.323 0.318 0.330 0.318 0.317 0.317 0.307 0.348        0.326    5.09
37)  methyl acrylate
      0.521 0.500 0.499 0.519 0.500 0.483 0.473 0.489 0.454        0.493    4.35
38)  propionitrile
      0.084 0.078 0.071 0.076 0.074 0.067 0.074 0.075 0.071 0.074  0.075    6.20
39)  tert-butyl formate  *This compound fails Initial Calibration criteria*
      0.202 0.183 0.214 0.216 0.186 0.220 0.176 0.180 0.184        0.196    8.87
40)  bromochloromethane
      0.175 0.169 0.155 0.164 0.161 0.147 0.167 0.155 0.174 0.197  0.166    8.46
41)  tetrahydrofuran
            0.197 0.158 0.169 0.161 0.149 0.167 0.169              0.167    8.95
42)  chloroform
      0.616 0.556 0.507 0.525 0.512 0.497 0.530 0.498 0.624        0.541    8.97
43)  dibromofluoromethane (s)
      0.475 0.478 0.463 0.470 0.474 0.461 0.478 0.479 0.476 0.463  0.472    1.48
44)  methacrylonitrile
      0.155 0.147 0.161 0.166 0.159 0.154 0.150 0.158 0.154        0.156    3.84
45)  1,1,1-trichloroethane
      0.524 0.516 0.514 0.526 0.509 0.507 0.504 0.490 0.523 0.557  0.517    3.40
46)  cyclohexane
      0.522 0.479 0.467 0.475 0.448 0.458 0.464 0.453 0.453 0.507  0.473    5.17
47)  tert amyl alcohol
      0.031 0.028 0.024 0.026 0.026 0.022 0.027 0.027 0.028        0.027    9.65
48)  1,1-dichloropropene
      0.434 0.412 0.429 0.435 0.425 0.421 0.415 0.407 0.399 0.472  0.425    4.77
49)  isobutyl alcohol
      0.007 0.008 0.006 0.006 0.006 0.006 0.007 0.007              0.007   10.15
50)  carbon tetrachloride
      0.451 0.431 0.485 0.479 0.452 0.485 0.426 0.419 0.435 0.502  0.457    6.39
51)  isopropyl acetate
      0.072 0.065 0.079 0.082 0.074 0.077 0.068 0.070 0.067        0.073    7.92

52) I   1,4-difluorobenzene   ----------------ISTD---------------------
53)  1,2-dichloroethane-d4 (s)
```

0.387 0.392 0.372 0.372 0.384 0.376 0.387 0.386 0.388 0.378 0.382 1.91

54) iso-octane
0.725 0.692 0.696 0.687 0.660 0.694 0.653 0.642 0.726 0.761 0.694 5.27

55) epichlorohydrin
0.038 0.035 0.035 0.038 0.035 0.035 0.034 0.034 0.029 0.035 7.47

56) n-butyl alcohol
0.011 0.011 0.012 0.013 0.012 0.012 0.011 0.011 0.008 0.011 10.45

57) benzene
0.893 0.853 0.817 0.820 0.802 0.812 0.799 0.772 0.784 1.034 0.839 9.16

58) tert-amyl methyl ether
0.589 0.553 0.586 0.588 0.544 0.592 0.525 0.524 0.498 0.534 0.553 6.10

59) heptane
0.141 0.132 0.126 0.125 0.124 0.123 0.122 0.120 0.111 0.128 0.125 6.36

60) 1,2-dichloroethane
0.391 0.360 0.292 0.301 0.290 0.286 0.313 0.297 0.316 12.13

61) trichloroethene
0.285 0.255 0.265 0.267 0.262 0.262 0.252 0.246 0.256 0.261 4.20

62) ethyl acrylate
0.351 0.343 0.361 0.366 0.337 0.351 0.333 0.332 0.332 0.309 0.341 4.90

63) 2-nitropropane
0.086 0.083 0.092 0.091 0.077 0.097 0.072 0.074 0.084 10.86

64) 2-chloroethyl vinyl ether
0.150 0.143 0.153 0.157 0.146 0.152 0.140 0.141 0.127 0.145 6.27

65) methyl methacrylate
0.072 0.064 0.072 0.073 0.067 0.071 0.062 0.063 0.068 6.63

66) 1,2-dichloropropane
0.084 0.081 0.084 0.086 0.082 0.084 0.080 0.082 0.074 0.082 4.04

67) dibromomethane
0.162 0.139 0.135 0.139 0.134 0.134 0.138 0.130 0.166 0.142 9.14

68) methylcyclohexane
0.350 0.362 0.368 0.364 0.342 0.365 0.330 0.330 0.355 0.350 0.352 4.02

69) bromodichloromethane
0.248 0.225 0.258 0.261 0.240 0.259 0.231 0.222 0.236 0.242 6.18

70) cis-1,3-dichloropropene
0.282 0.264 0.305 0.310 0.285 0.305 0.266 0.259 0.248 0.281 8.03

71) 4-methyl-2-pentanone
0.122 0.117 0.120 0.123 0.115 0.116 0.113 0.114 0.110 0.098 0.115 6.25

72) 3-methyl-1-butanol
0.008 0.008 0.010 0.010 0.009 0.010 0.008 0.008 0.009 12.38

73) I chlorobenzene-d5 ----------ISTD----------

74) toluene-d8 (s)
1.195 1.198 1.194 1.186 1.192 1.223 1.190 1.191 1.191 1.200 1.196 0.86

75) toluene
0.583 0.554 0.555 0.550 0.544 0.564 0.535 0.512 0.531 0.547 3.74

76) trans-1,3-dichloropropene
0.261 0.245 0.307 0.304 0.277 0.312 0.245 0.251 0.262 0.274 9.96

77) ethyl methacrylate
0.287 0.277 0.288 0.295 0.276 0.287 0.265 0.259 0.247 0.276 5.78

78) 1,1,2-trichloroethane
0.185 0.160 0.168 0.173 0.160 0.167 0.157 0.157 0.152 0.178 0.166 6.37

79) tetrachloroethene
0.218 0.215 0.228 0.225 0.214 0.229 0.209 0.205 0.190 0.261 0.220 8.56

80) 1,3-dichloropropane
0.339 0.309 0.313 0.322 0.304 0.309 0.305 0.292 0.303 0.381 0.318 7.99

81) 2-hexanone
0.139 0.132 0.132 0.136 0.129 0.128 0.129 0.128 0.124 0.112 0.129 5.75

82) butyl acetate
0.206 0.179 0.180 0.187 0.175 0.174 0.171 0.170 0.177 0.213 0.183 8.06

83) dibromochloromethane

```
      0.218 0.188 0.250 0.248 0.215 0.255 0.190 0.196 0.191 0.228  0.218   12.20
 84)  1,2-dibromoethane
      0.223 0.222 0.230 0.240 0.222 0.228 0.210 0.208 0.208        0.221    4.92
 85)  n-butyl ether
      0.925 0.883 0.916 0.925 0.874 0.897 0.839 0.838 0.858 0.915  0.887    3.83
 86)  chlorobenzene
      0.703 0.636 0.610 0.624 0.604 0.608 0.614 0.585 0.608        0.621    5.41
 87)  1,1,1,2-tetrachloroethane
      0.205 0.184 0.240 0.237 0.212 0.245 0.192 0.193              0.214   11.28
 88)  ethylbenzene
      1.081 1.056 1.052 1.048 1.014 1.043 1.006 0.975 1.008 1.209  1.049    6.12
 89)  m,p-xylene
      0.437 0.417 0.416 0.419 0.410 0.412 0.399 0.390 0.396 0.433  0.413    3.64
 90)  o-xylene
      0.832 0.803 0.791 0.798 0.777 0.782 0.769 0.746 0.740 0.803  0.784    3.53
 91)  styrene
      0.685 0.642 0.669 0.683 0.655 0.661 0.624 0.610 0.612 0.814  0.665    8.84
 92)  butyl acrylate
      0.458 0.438 0.475 0.496 0.455 0.458 0.423 0.426 0.419        0.450    5.71
 93)  n-amyl acetate
      0.156 0.146 0.158 0.166 0.153 0.149 0.140 0.146 0.132        0.150    6.64
 94)  bromoform
      0.120 0.119 0.178 0.172 0.144 0.182 0.119 0.123              0.145   19.61
 95)  isopropylbenzene
      1.071 1.022 1.032 1.057 1.022 0.996 0.999 0.969 0.996 1.059  1.022    3.22
 96)  cis-1,4-dichloro-2-butene
             0.105 0.097 0.076 0.107 0.055 0.064                   0.084   26.38
        ----- Linear regression -----  Coefficient =  0.9973
          Response Ratio = -0.00600 + 0.10699 *A


 97) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
 98)  4-bromofluorobenzene (s)
      0.875 0.874 0.862 0.856 0.846 0.869 0.876 0.862 0.879 0.883  0.868    1.33
 99)  bromobenzene
      0.603 0.547 0.545 0.561 0.517 0.557 0.526 0.509 0.575        0.549    5.36
100)  1,1,2,2-tetrachloroethane
      0.577 0.554 0.582 0.586 0.543 0.584 0.530 0.537 0.486 0.458  0.544    8.00
101)  trans-1,4-dichloro-2-butene
            0.144 0.183 0.173 0.149 0.188 0.134 0.136              0.158   14.23
102)  1,2,3-trichloropropane
      0.192 0.189 0.184 0.189 0.178 0.184 0.175 0.168 0.157        0.179    6.44
103)  n-propylbenzene
      2.353 2.178 2.310 2.309 2.219 2.287 2.153 2.123 2.160 2.604  2.270    6.23
104)  2-chlorotoluene
      0.550 0.533 0.508 0.513 0.494 0.510 0.499 0.484 0.497 0.453  0.504    5.23
105)  4-chlorotoluene
      1.489 1.327 1.330 1.342 1.284 1.345 1.268 1.236 1.281        1.322    5.51
106)  1,3,5-trimethylbenzene
      1.569 1.440 1.566 1.539 1.470 1.596 1.425 1.388 1.382 1.443  1.482    5.34
107)  tert-butylbenzene
      1.504 1.474 1.462 1.471 1.418 1.447 1.384 1.339 1.414 1.505  1.442    3.69
108)  1,2,4-trimethylbenzene
      1.574 1.474 1.539 1.525 1.458 1.575 1.449 1.381 1.420 1.613  1.501    5.04
109)  sec-butylbenzene
      2.065 1.919 2.069 2.063 1.972 2.048 1.916 1.856 1.886 2.031  1.983    4.16
110)  1,3-dichlorobenzene
      1.025 0.990 0.981 1.003 0.949 0.992 0.951 0.910 1.039        0.982    4.11
111)  p-isopropyltoluene
      1.698 1.629 1.773 1.754 1.675 1.798 1.577 1.591 1.615 1.698  1.681    4.60
```

# Initial Calibration Summary

**Job Number:** JD52507 **Sample:** V1X8636-ICC8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200562.D
**Project:** EPT, Ithaca, NY

```
112)  1,4-dichlorobenzene
       1.091 0.994 0.989 1.020 0.968 1.007 0.976 0.935 1.132        1.012    6.11
113)  1,2-dichlorobenzene
       0.958 0.914 0.927 0.952 0.906 0.939 0.900 0.866 0.904        0.918    3.15
114)  benzyl chloride
       0.702 0.671 0.979 0.946 0.817 1.008 0.669 0.705              0.812   17.92
115)  n-butylbenzene
       0.763 0.725 0.782 0.775 0.730 0.817 0.693 0.682 0.616 0.812  0.739    8.54
116)  1,2-dibromo-3-chloropropane
             0.144 0.181 0.183 0.160 0.191 0.136 0.144              0.163   13.62
117)  1,3,5-trichlorobenzene
       0.597 0.566 0.595 0.611 0.572 0.651 0.550 0.542 0.558 0.660  0.590    6.91
118)  hexachlorobutadiene
       0.234 0.203 0.221 0.216 0.206 0.251 0.194 0.189 0.195 0.195  0.210    9.57
119)  naphthalene
       1.987 1.823 1.921 1.943 1.818 2.035 1.817 1.786 1.827 2.354  1.931    8.84
120)  1,2,4-trichlorobenzene
       0.528 0.500 0.525 0.529 0.489 0.584 0.472 0.459 0.474 0.581  0.514    8.49
121)  1,2,3-trichlorobenzene
       0.497 0.480 0.523 0.517 0.481 0.571 0.449 0.452 0.494 0.545  0.501    7.75
122)  hexachloroethane
             0.145 0.232 0.217 0.180       0.143 0.154              0.179   21.55
             ----- Linear regression -----  Coefficient =  0.9937
               Response Ratio = -0.00596 + 0.22590 *A

123)  2-methylnaphthalene
       0.897 0.813 1.075 1.055 0.918 1.128 0.807 0.852 0.944        0.943   12.45
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M1X8636.M         Thu Sep 29 14:02:51 2022   GCMSX
```

# Initial Calibration Verification



**Job Number:** JD52507 **Sample:** V1X8636-ICV8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200572.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\VX8636\1X200572.D Vial: 14
Acq On : 29 Sep 2022 4:25 am Operator: PrashanS
Sample : ICV8636-50 Inst : ACC-VOA-M
Misc : MS62283,V1X8636,5,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M1X8636.M (RTE Integrator)
Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
Last Update : Thu Sep 29 10:06:17 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 2.44 |
| 2 | | ethanol | 0.048 | 0.043 | 10.4 | 100 | 0.00 | 1.94 |
| 3 | | tertiary butyl alcohol | 0.756 | 0.783 | -3.6 | 109 | 0.00 | 2.49 |
| 4 | | 1,4-dioxane | 0.060 | 0.063 | -5.0 | 104 | 0.00 | 4.38 |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 107 | 0.00 | 3.51 |
| 6 | | chlorodifluoromethane | | ----------NA---------- | | | | |
| 7 | | dichlorodifluoromethane | 0.400 | 0.433 | -8.2 | 114 | 0.00 | 1.24 |
| 8 | | chloromethane | 0.418 | 0.416 | 0.5 | 106 | 0.00 | 1.37 |
| 9 | | vinyl chloride | 0.441 | 0.464 | -5.2 | 109 | 0.00 | 1.43 |
| 10 | | bromomethane | 0.061 | 0.075 | -23.0 | 113 | 0.00 | 1.64 |
| 11 | | chloroethane | 0.195 | 0.194 | 0.5 | 113 | 0.00 | 1.70 |
| 12 | | trichlorofluoromethane | 0.578 | 0.609 | -5.4 | 105 | 0.00 | 1.86 |
| 13 | | 1,3-butadiene | 0.352 | 0.495 | -40.6# | 149 | 0.00 | 1.46 |
| 14 | | ethyl ether | 0.147 | 0.148 | -0.7 | 105 | 0.00 | 2.02 |
| 15 | | acrolein | 0.083 | 0.089 | -7.2 | 108 | 0.00 | 2.10 |
| 16 | | 1,1-dichloroethene | 0.279 | 0.289 | -3.6 | 107 | 0.00 | 2.17 |
| 17 | | freon 113 | 0.340 | 0.327 | 3.8 | 101 | 0.00 | 2.17 |
| 18 | | acetone | 0.047 | 0.042 | 10.6 | 98 | 0.00 | 2.18 |
| 19 | | acetonitrile | | ----------NA---------- | | | | |
| 20 | | iodomethane | 0.128 | 0.148 | -15.6 | 81 | 0.00 | 2.27 |
| 21 | | carbon disulfide | 0.701 | 0.746 | -6.4 | 110 | 0.00 | 2.32 |
| 22 | | methylene chloride | 0.271 | 0.269 | 0.7 | 106 | 0.00 | 2.46 |
| 23 | | methyl acetate | 0.385 | 0.416 | -8.1 | 113 | 0.00 | 2.36 |
| 24 | | methyl tert butyl ether | 0.806 | 0.823 | -2.1 | 107 | 0.00 | 2.60 |
| 25 | | acrylonitrile | | ----------NA---------- | | | | |
| 26 | | trans-1,2-dichloroethene | 0.302 | 0.311 | -3.0 | 109 | 0.00 | 2.62 |
| 27 | | hexane | 0.477 | 0.488 | -2.3 | 110 | 0.00 | 2.78 |
| 28 | | di-isopropyl ether | 1.005 | 1.013 | -0.8 | 106 | 0.00 | 2.88 |
| 29 | | 2-butanone | 0.052 | 0.055 | -5.8 | 105 | 0.00 | 3.19 |
| 30 | | 1,1-dichloroethane | 0.524 | 0.525 | -0.2 | 106 | 0.00 | 2.88 |
| 31 | | chloroprene | 0.496 | 0.548 | -10.5 | 112 | 0.00 | 2.92 |
| 32 | | vinyl acetate | 0.058 | 0.050 | 13.8 | 82 | 0.00 | 2.86 |
| 33 | | ethyl tert-butyl ether | 0.897 | 0.901 | -0.4 | 103 | 0.00 | 3.09 |
| 34 | | ethyl acetate | 0.079 | 0.084 | -6.3 | 105 | 0.00 | 3.21 |
| 35 | | 2,2-dichloropropane | 0.435 | 0.423 | 2.8 | 104 | 0.00 | 3.22 |
| 36 | | cis-1,2-dichloroethene | 0.326 | 0.328 | -0.6 | 107 | 0.00 | 3.21 |
| 37 | | methyl acrylate | 0.493 | 0.489 | 0.8 | 101 | 0.00 | 3.24 |
| 38 | | propionitrile | 0.075 | 0.068 | 9.3 | 96 | 0.00 | 3.23 |
| 39 | | tert-butyl formate | 0.196 | 0.112 | 42.9# | 56 | 0.00 | 3.43 |
| 40 | | bromochloromethane | 0.166 | 0.160 | 3.6 | 105 | 0.00 | 3.36 |
| 41 | | tetrahydrofuran | 0.167 | 0.163 | 2.4 | 104 | 0.00 | 3.37 |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** V1X8636-ICV8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200572.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 42 | | chloroform | 0.541 | 0.540 | 0.2 | 110 | 0.00 | 3.41 |
| 43 | S | dibromofluoromethane (s) | 0.472 | 0.464 | 1.7 | 106 | 0.00 | 3.51 |
| 44 | | methacrylonitrile | 0.156 | 0.164 | -5.1 | 106 | 0.00 | 3.33 |
| 45 | | 1,1,1-trichloroethane | 0.517 | 0.526 | -1.7 | 107 | 0.00 | 3.53 |
| 46 | | cyclohexane | 0.473 | 0.475 | -0.4 | 107 | 0.00 | 3.58 |
| 47 | m | tert amyl alcohol | 0.027 | 0.024 | 11.1 | 99 | 0.00 | 3.72 |
| 48 | | 1,1-dichloropropene | 0.425 | 0.439 | -3.3 | 108 | 0.00 | 3.62 |
| 49 | | isobutyl alcohol | 0.007 | 0.006 | 14.3 | 101 | 0.00 | 3.81 |
| 50 | | carbon tetrachloride | 0.457 | 0.476 | -4.2 | 106 | 0.00 | 3.63 |
| 51 | | isopropyl acetate | 0.073 | 0.079 | -8.2 | 103 | 0.00 | 3.74 |
| 52 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 4.00 |
| 53 | S | 1,2-dichloroethane-d4 (s) | 0.382 | 0.373 | 2.4 | 105 | 0.00 | 3.73 |
| 54 | | iso-octane | 0.694 | 0.672 | 3.2 | 102 | 0.00 | 3.81 |
| 55 | | epichlorohydrin | 0.035 | 0.036 | -2.9 | 99 | 0.00 | 4.72 |
| 56 | | n-butyl alcohol | 0.011 | 0.012 | -9.1 | 101 | 0.00 | 4.06 |
| 57 | | benzene | 0.839 | 0.845 | -0.7 | 108 | 0.00 | 3.75 |
| 58 | | tert-amyl methyl ether | 0.553 | 0.569 | -2.9 | 101 | 0.00 | 3.81 |
| 59 | | heptane | 0.125 | 0.134 | -7.2 | 112 | 0.00 | 3.91 |
| 60 | | 1,2-dichloroethane | 0.316 | 0.301 | 4.7 | 104 | 0.00 | 3.78 |
| 61 | | trichloroethene | 0.261 | 0.278 | -6.5 | 109 | 0.00 | 4.16 |
| 62 | m | ethyl acrylate | 0.341 | 0.347 | -1.8 | 99 | 0.00 | 4.19 |
| 63 | | 2-nitropropane | 0.084 | 0.092 | -9.5 | 106 | 0.00 | 4.65 |
| 64 | | 2-chloroethyl vinyl ether | 0.145 | 0.142 | 2.1 | 95 | 0.00 | 4.68 |
| 65 | | methyl methacrylate | 0.068 | 0.077 | -13.2 | 109 | 0.00 | 4.34 |
| 66 | | 1,2-dichloropropane | 0.082 | 0.086 | -4.9 | 105 | 0.00 | 4.34 |
| 67 | | dibromomethane | 0.142 | 0.139 | 2.1 | 104 | 0.00 | 4.40 |
| 68 | | methylcyclohexane | 0.352 | 0.381 | -8.2 | 109 | 0.00 | 4.33 |
| 69 | | bromodichloromethane | 0.242 | 0.261 | -7.9 | 105 | 0.00 | 4.50 |
| 70 | | cis-1,3-dichloropropene | 0.281 | 0.304 | -8.2 | 103 | 0.00 | 4.80 |
| 71 | | 4-methyl-2-pentanone | 0.115 | 0.122 | -6.1 | 103 | 0.00 | 4.89 |
| 72 | | 3-methyl-1-butanol | 0.009 | 0.010 | -11.1 | 102 | 0.00 | 4.91 |
| 73 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 6.07 |
| 74 | S | toluene-d8 (s) | 1.196 | 1.184 | 1.0 | 105 | 0.00 | 5.00 |
| 75 | | toluene | 0.547 | 0.570 | -4.2 | 109 | 0.00 | 5.04 |
| 76 | | trans-1,3-dichloropropene | 0.274 | 0.300 | -9.5 | 103 | 0.00 | 5.20 |
| 77 | | ethyl methacrylate | 0.276 | 0.275 | 0.4 | 98 | 0.00 | 5.22 |
| 78 | | 1,1,2-trichloroethane | 0.166 | 0.172 | -3.6 | 104 | 0.00 | 5.34 |
| 79 | | tetrachloroethene | | ----------NA---------- | | | | |
| 80 | | 1,3-dichloropropane | 0.318 | 0.322 | -1.3 | 105 | 0.00 | 5.47 |
| 81 | | 2-hexanone | 0.129 | 0.133 | -3.1 | 103 | 0.00 | 5.49 |
| 82 | | butyl acetate | 0.183 | 0.187 | -2.2 | 105 | 0.00 | 5.57 |
| 83 | | dibromochloromethane | 0.218 | 0.250 | -14.7 | 105 | 0.00 | 5.63 |
| 84 | | 1,2-dibromoethane | 0.221 | 0.237 | -7.2 | 104 | 0.00 | 5.73 |
| 85 | m | n-butyl ether | 0.887 | 0.899 | -1.4 | 102 | 0.00 | 6.15 |
| 86 | | chlorobenzene | 0.621 | 0.632 | -1.8 | 106 | 0.00 | 6.10 |
| 87 | | 1,1,1,2-tetrachloroethane | 0.214 | 0.237 | -10.7 | 105 | 0.00 | 6.16 |
| 88 | | ethylbenzene | 1.049 | 1.079 | -2.9 | 108 | 0.00 | 6.16 |
| 89 | | m,p-xylene | 0.413 | 0.434 | -5.1 | 108 | 0.00 | 6.27 |
| 90 | | o-xylene | 0.784 | 0.825 | -5.2 | 108 | 0.00 | 6.57 |
| 91 | | styrene | 0.665 | 0.696 | -4.7 | 107 | 0.00 | 6.59 |
| 92 | | butyl acrylate | 0.450 | 0.473 | -5.1 | 100 | 0.00 | 6.51 |
| 93 | | n-amyl acetate | 0.150 | 0.157 | -4.7 | 100 | 0.00 | 6.69 |
| 94 | | bromoform | 0.145 | 0.170 | -17.2 | 103 | 0.00 | 6.74 |
| 95 | | isopropylbenzene | 1.022 | 1.089 | -6.6 | 108 | 0.00 | 6.86 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 96 | | cis-1,4-dichloro-2-butene | 50.000 | 43.628 | 12.7 | 95 | 0.00 | 6.91 |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** V1X8636-ICV8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200572.D
**Project:** EPT, Ithaca, NY

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 97 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 7.88 |
| 98 | S | 4-bromofluorobenzene (s) | 0.868 | 0.853 | 1.7 | 104 | 0.00 | 7.01 |
| 99 | | bromobenzene | 0.549 | 0.559 | -1.8 | 104 | 0.00 | 7.13 |
| 100 | | 1,1,2,2-tetrachloroethane | 0.544 | 0.581 | -6.8 | 104 | 0.00 | 7.10 |
| 101 | | trans-1,4-dichloro-2-bute | 0.158 | 0.178 | -12.7 | 108 | 0.00 | 7.14 |
| 102 | | 1,2,3-trichloropropane | 0.179 | 0.184 | -2.8 | 102 | 0.00 | 7.15 |
| 103 | | n-propylbenzene | 2.270 | 2.372 | -4.5 | 107 | 0.00 | 7.19 |
| 104 | | 2-chlorotoluene | 0.504 | 0.524 | -4.0 | 107 | 0.00 | 7.27 |
| 105 | | 4-chlorotoluene | 1.322 | 1.356 | -2.6 | 106 | 0.00 | 7.36 |
| 106 | | 1,3,5-trimethylbenzene | 1.482 | 1.576 | -6.3 | 107 | 0.00 | 7.33 |
| 107 | | tert-butylbenzene | 1.442 | 1.555 | -7.8 | 110 | 0.00 | 7.57 |
| 108 | | 1,2,4-trimethylbenzene | 1.501 | 1.554 | -3.5 | 106 | 0.00 | 7.62 |
| 109 | | sec-butylbenzene | 1.983 | 2.127 | -7.3 | 108 | 0.00 | 7.73 |
| 110 | | 1,3-dichlorobenzene | 0.982 | 1.017 | -3.6 | 106 | 0.00 | 7.83 |
| 111 | | p-isopropyltoluene | 1.681 | 1.803 | -7.3 | 107 | 0.00 | 7.85 |
| 112 | | 1,4-dichlorobenzene | 1.012 | 1.015 | -0.3 | 104 | 0.00 | 7.90 |
| 113 | | 1,2-dichlorobenzene | 0.918 | 0.959 | -4.5 | 105 | 0.00 | 8.16 |
| 114 | | benzyl chloride | 0.812 | 0.842 | -3.7 | 93 | 0.00 | 7.98 |
| 115 | | n-butylbenzene | 0.739 | 0.793 | -7.3 | 107 | 0.00 | 8.13 |
| 116 | | 1,2-dibromo-3-chloropropa | 0.163 | 0.181 | -11.0 | 103 | 0.00 | 8.69 |
| 117 | | 1,3,5-trichlorobenzene | 0.590 | 0.608 | -3.1 | 104 | 0.00 | 8.81 |
| 118 | | hexachlorobutadiene | 0.210 | 0.228 | -8.6 | 110 | 0.00 | 9.30 |
| 119 | | naphthalene | 1.931 | 1.920 | 0.6 | 103 | 0.00 | 9.39 |
| 120 | | 1,2,4-trichlorobenzene | 0.514 | 0.537 | -4.5 | 106 | 0.00 | 9.22 |
| 121 | m | 1,2,3-trichlorobenzene | 0.501 | 0.517 | -3.2 | 104 | 0.00 | 9.52 |

| | | | True | Calc. | % Drift | | | |
|---|---|---|---|---|---|---|---|---|
| 122 | | hexachloroethane | 50.000 | 51.887 | -3.8 | 110 | 0.00 | 8.35 |

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 123 | | 2-methylnaphthalene | 0.943 | 1.044 | -10.7 | 103 | 0.00 | 10.11 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1X200562.D M1X8636.M Thu Sep 29 14:02:37 2022 GCMSX

# Initial Calibration Verification



**Job Number:** JD52507 **Sample:** V1X8636-ICV8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200574.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\VX8636\1X200574.D Vial: 15
Acq On : 29 Sep 2022 5:02 am Operator: PrashanS
Sample : ICV8636-50 Inst : ACC-VOA-M
Misc : MS62283,V1X8636,5,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M1X8636.M (RTE Integrator)
Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
Last Update : Thu Sep 29 10:06:17 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 97 | 0.00 | 2.44 |
| 2 | | ethanol | | ----------NA---------- | | | | |
| 3 | | tertiary butyl alcohol | | ----------NA---------- | | | | |
| 4 | | 1,4-dioxane | | ----------NA---------- | | | | |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 3.51 |
| 6 | | chlorodifluoromethane | 0.426 | 0.453 | -6.3 | 116 | 0.00 | 1.25 |
| 7 | | dichlorodifluoromethane | | ----------NA---------- | | | | |
| 8 | | chloromethane | | ----------NA---------- | | | | |
| 9 | | vinyl chloride | | ----------NA---------- | | | | |
| 10 | | bromomethane | | ----------NA---------- | | | | |
| 11 | | chloroethane | | ----------NA---------- | | | | |
| 12 | | trichlorofluoromethane | | ----------NA---------- | | | | |
| 13 | | 1,3-butadiene | | ----------NA---------- | | | | |
| 14 | | ethyl ether | | ----------NA---------- | | | | |
| 15 | | acrolein | | ----------NA---------- | | | | |
| 16 | | 1,1-dichloroethene | | ----------NA---------- | | | | |
| 17 | | freon 113 | | ----------NA---------- | | | | |
| 18 | | acetone | | ----------NA---------- | | | | |
| 19 | | acetonitrile | 0.066 | 0.059 | 10.6 | 99 | 0.00 | 2.35 |
| 20 | | iodomethane | | ----------NA---------- | | | | |
| 21 | | carbon disulfide | | ----------NA---------- | | | | |
| 22 | | methylene chloride | | ----------NA---------- | | | | |
| 23 | | methyl acetate | | ----------NA---------- | | | | |
| 24 | | methyl tert butyl ether | | ----------NA---------- | | | | |
| 25 | | acrylonitrile | 0.179 | 0.148 | 17.3 | 84 | 0.00 | 2.58 |
| 26 | | trans-1,2-dichloroethene | | ----------NA---------- | | | | |
| 27 | | hexane | | ----------NA---------- | | | | |
| 28 | | di-isopropyl ether | | ----------NA---------- | | | | |
| 29 | | 2-butanone | | ----------NA---------- | | | | |
| 30 | | 1,1-dichloroethane | | ----------NA---------- | | | | |
| 31 | | chloroprene | | ----------NA---------- | | | | |
| 32 | | vinyl acetate | | ----------NA---------- | | | | |
| 33 | | ethyl tert-butyl ether | | ----------NA---------- | | | | |
| 34 | | ethyl acetate | | ----------NA---------- | | | | |
| 35 | | 2,2-dichloropropane | | ----------NA---------- | | | | |
| 36 | | cis-1,2-dichloroethene | | ----------NA---------- | | | | |
| 37 | | methyl acrylate | | ----------NA---------- | | | | |
| 38 | | propionitrile | | ----------NA---------- | | | | |
| 39 | | tert-butyl formate | | ----------NA---------- | | | | |
| 40 | | bromochloromethate | | ----------NA---------- | | | | |
| 41 | | tetrahydrofuran | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** V1X8636-ICV8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200574.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 42 | | chloroform | | ----------NA---------- | | | | |
| 43 | S | dibromofluoromethane (s) | 0.472 | 0.457 | 3.2 | 102 | 0.00 | 3.51 |
| 44 | | methacrylonitrile | | ----------NA---------- | | | | |
| 45 | | 1,1,1-trichloroethane | | ----------NA---------- | | | | |
| 46 | | cyclohexane | | ----------NA---------- | | | | |
| 47 | m | tert amyl alcohol | | ----------NA---------- | | | | |
| 48 | | 1,1-dichloropropene | | ----------NA---------- | | | | |
| 49 | | isobutyl alcohol | | ----------NA---------- | | | | |
| 50 | | carbon tetrachloride | | ----------NA---------- | | | | |
| 51 | | isopropyl acetate | | ----------NA---------- | | | | |
| 52 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 100 | 0.00 | 4.00 |
| 53 | S | 1,2-dichloroethane-d4 (s) | 0.382 | 0.388 | -1.6 | 105 | 0.00 | 3.73 |
| 54 | | iso-octane | | ----------NA---------- | | | | |
| 55 | | epichlorohydrin | | ----------NA---------- | | | | |
| 56 | | n-butyl alcohol | | ----------NA---------- | | | | |
| 57 | | benzene | | ----------NA---------- | | | | |
| 58 | | tert-amyl methyl ether | | ----------NA---------- | | | | |
| 59 | | heptane | | ----------NA---------- | | | | |
| 60 | | 1,2-dichloroethane | | ----------NA---------- | | | | |
| 61 | | trichloroethene | | ----------NA---------- | | | | |
| 62 | m | ethyl acrylate | | ----------NA---------- | | | | |
| 63 | | 2-nitropropane | | ----------NA---------- | | | | |
| 64 | | 2-chloroethyl vinyl ether | | ----------NA---------- | | | | |
| 65 | | methyl methacrylate | | ----------NA---------- | | | | |
| 66 | | 1,2-dichloropropane | | ----------NA---------- | | | | |
| 67 | | dibromomethane | | ----------NA---------- | | | | |
| 68 | | methylcyclohexane | | ----------NA---------- | | | | |
| 69 | | bromodichloromethane | | ----------NA---------- | | | | |
| 70 | | cis-1,3-dichloropropene | | ----------NA---------- | | | | |
| 71 | | 4-methyl-2-pentanone | | ----------NA---------- | | | | |
| 72 | | 3-methyl-1-butanol | | ----------NA---------- | | | | |
| 73 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 6.07 |
| 74 | S | toluene-d8 (s) | 1.196 | 1.179 | 1.4 | 102 | 0.00 | 5.00 |
| 75 | | toluene | | ----------NA---------- | | | | |
| 76 | | trans-1,3-dichloropropene | | ----------NA---------- | | | | |
| 77 | | ethyl methacrylate | | ----------NA---------- | | | | |
| 78 | | 1,1,2-trichloroethane | | ----------NA---------- | | | | |
| 79 | | tetrachloroethene | 0.220 | 0.209 | 5.0 | 95 | 0.00 | 5.42 |
| 80 | | 1,3-dichloropropane | | ----------NA---------- | | | | |
| 81 | | 2-hexanone | | ----------NA---------- | | | | |
| 82 | | butyl acetate | | ----------NA---------- | | | | |
| 83 | | dibromochloromethane | | ----------NA---------- | | | | |
| 84 | | 1,2-dibromoethane | | ----------NA---------- | | | | |
| 85 | m | n-butyl ether | | ----------NA---------- | | | | |
| 86 | | chlorobenzene | | ----------NA---------- | | | | |
| 87 | | 1,1,1,2-tetrachloroethane | | ----------NA---------- | | | | |
| 88 | | ethylbenzene | | ----------NA---------- | | | | |
| 89 | | m,p-xylene | | ----------NA---------- | | | | |
| 90 | | o-xylene | | ----------NA---------- | | | | |
| 91 | | styrene | | ----------NA---------- | | | | |
| 92 | | butyl acrylate | | ----------NA---------- | | | | |
| 93 | | n-amyl acetate | | ----------NA---------- | | | | |
| 94 | | bromoform | | ----------NA---------- | | | | |
| 95 | | isopropylbenzene | | ----------NA---------- | | | | |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 96 | | cis-1,4-dichloro-2-butene | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** V1X8636-ICV8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200574.D
**Project:** EPT, Ithaca, NY

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 97 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 7.88 |
| 98 | S | 4-bromofluorobenzene (s) | 0.868 | 0.864 | 0.5 | 103 | 0.00 | 7.01 |
| 99 | | bromobenzene | | NA | | | | |
| 100 | | 1,1,2,2-tetrachloroethane | | NA | | | | |
| 101 | | trans-1,4-dichloro-2-bute | | NA | | | | |
| 102 | | 1,2,3-trichloropropane | | NA | | | | |
| 103 | | n-propylbenzene | | NA | | | | |
| 104 | | 2-chlorotoluene | | NA | | | | |
| 105 | | 4-chlorotoluene | | NA | | | | |
| 106 | | 1,3,5-trimethylbenzene | | NA | | | | |
| 107 | | tert-butylbenzene | | NA | | | | |
| 108 | | 1,2,4-trimethylbenzene | | NA | | | | |
| 109 | | sec-butylbenzene | | NA | | | | |
| 110 | | 1,3-dichlorobenzene | | NA | | | | |
| 111 | | p-isopropyltoluene | | NA | | | | |
| 112 | | 1,4-dichlorobenzene | | NA | | | | |
| 113 | | 1,2-dichlorobenzene | | NA | | | | |
| 114 | | benzyl chloride | | NA | | | | |
| 115 | | n-butylbenzene | | NA | | | | |
| 116 | | 1,2-dibromo-3-chloropropa | | NA | | | | |
| 117 | | 1,3,5-trichlorobenzene | | NA | | | | |
| 118 | | hexachlorobutadiene | | NA | | | | |
| 119 | | naphthalene | | NA | | | | |
| 120 | | 1,2,4-trichlorobenzene | | NA | | | | |
| 121 | m | 1,2,3-trichlorobenzene | | NA | | | | |

| | | | True | Calc. | % Drift |
|---|---|---|---|---|---|
| 122 | | hexachloroethane | | NA | |

| | | | AvgRF | CCRF | % Dev |
|---|---|---|---|---|---|
| 123 | | 2-methylnaphthalene | | NA | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1X200562.D M1X8636.M Thu Sep 29 14:01:52 2022 GCMSX

# Continuing Calibration Summary



**Job Number:** JD52507 **Sample:** V1X8637-CC8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200580.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\da...22\v1x8637\1x200580.d Vial: 3
Acq On : 29 Sep 2022 10:06 am Operator: PrashanS
Sample : cc8636-20 Inst : ACC-VOA-MSX
Misc : MS62283,V1X8637,5,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M1X8636.M (RTE Integrator)
Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
Last Update : Thu Sep 29 10:06:17 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 109 | -0.01 | 2.43 |
| 2 | | ethanol | 0.048 | 0.050 | -4.2 | 118 | 0.00 | 1.94 |
| 3 | | tertiary butyl alcohol | 0.756 | 0.715 | 5.4 | 105 | -0.01 | 2.48 |
| 4 | | 1,4-dioxane | 0.060 | 0.060 | 0.0 | 105 | -0.01 | 4.37 |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 110 | 0.00 | 3.50 |
| 6 | | chlorodifluoromethane | 0.426 | 0.382 | 10.3 | 101 | -0.01 | 1.25 |
| 7 | | dichlorodifluoromethane | 0.400 | 0.332 | 17.0 | 91 | 0.00 | 1.23 |
| 8 | | chloromethane | 0.418 | 0.346 | 17.2 | 94 | -0.01 | 1.36 |
| 9 | | vinyl chloride | 0.441 | 0.360 | 18.4 | 90 | -0.01 | 1.43 |
| 10 | | bromomethane | 0.061 | 0.075 | -23.0# | 127 | 0.00 | 1.63 |
| 11 | | chloroethane | 0.195 | 0.160 | 17.9 | 93 | 0.00 | 1.70 |
| 12 | | trichlorofluoromethane | 0.578 | 0.487 | 15.7 | 92 | -0.01 | 1.85 |
| 13 | | 1,3-butadiene | 0.352 | 0.332 | 5.7 | 99 | 0.00 | 1.45 |
| 14 | | ethyl ether | 0.147 | 0.134 | 8.8 | 100 | -0.01 | 2.01 |
| 15 | | acrolein | 0.083 | 0.082 | 1.2 | 113 | -0.01 | 2.10 |
| 16 | | 1,1-dichloroethene | 0.279 | 0.259 | 7.2 | 101 | 0.00 | 2.17 |
| 17 | | freon 113 | 0.340 | 0.316 | 7.1 | 102 | 0.00 | 2.16 |
| 18 | | acetone | 0.047 | 0.041 | 12.8 | 99 | 0.00 | 2.18 |
| 19 | | acetonitrile | 0.066 | 0.061 | 7.6 | 106 | -0.01 | 2.34 |
| 20 | | iodomethane | 0.128 | 0.113 | 11.7 | 120 | 0.00 | 2.26 |
| 21 | | carbon disulfide | 0.701 | 0.663 | 5.4 | 104 | 0.00 | 2.31 |
| 22 | | methylene chloride | 0.271 | 0.246 | 9.2 | 100 | 0.00 | 2.46 |
| 23 | | methyl acetate | 0.385 | 0.350 | 9.1 | 103 | 0.00 | 2.36 |
| 24 | | methyl tert butyl ether | 0.806 | 0.725 | 10.0 | 101 | 0.00 | 2.60 |
| 25 | | acrylonitrile | 0.179 | 0.170 | 5.0 | 106 | 0.00 | 2.58 |
| 26 | | trans-1,2-dichloroethene | 0.302 | 0.276 | 8.6 | 100 | 0.00 | 2.62 |
| 27 | | hexane | 0.477 | 0.453 | 5.0 | 109 | 0.00 | 2.77 |
| 28 | | di-isopropyl ether | 1.005 | 0.912 | 9.3 | 100 | 0.00 | 2.87 |
| 29 | | 2-butanone | 0.052 | 0.049 | 5.8 | 102 | -0.01 | 3.19 |
| 30 | | 1,1-dichloroethane | 0.524 | 0.467 | 10.9 | 98 | 0.00 | 2.87 |
| 31 | | chloroprene | 0.496 | 0.466 | 6.0 | 98 | 0.00 | 2.91 |
| 32 | | vinyl acetate | 0.058 | 0.057 | 1.7 | 107 | 0.00 | 2.86 |
| 33 | | ethyl tert-butyl ether | 0.897 | 0.819 | 8.7 | 101 | 0.00 | 3.09 |
| 34 | | ethyl acetate | 0.079 | 0.075 | 5.1 | 109 | 0.00 | 3.20 |
| 35 | | 2,2-dichloropropane | 0.435 | 0.417 | 4.1 | 108 | 0.00 | 3.22 |
| 36 | | cis-1,2-dichloroethene | 0.326 | 0.290 | 11.0 | 100 | 0.00 | 3.21 |
| 37 | | methyl acrylate | 0.493 | 0.467 | 5.3 | 102 | -0.01 | 3.23 |
| 38 | | propionitrile | 0.075 | 0.070 | 6.7 | 104 | -0.01 | 3.23 |
| 39 | | tert-butyl formate | 0.196 | 0.205 | -4.6 | 121 | -0.01 | 3.42 |
| 40 | | bromochloromethane | 0.166 | 0.152 | 8.4 | 104 | 0.00 | 3.36 |
| 41 | | tetrahydrofuran | 0.167 | 0.151 | 9.6 | 103 | 0.00 | 3.36 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** V1X8637-CC8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200580.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 42 | | chloroform | 0.541 | 0.465 | 14.0 | 100 | 0.00 | 3.41 |
| 43 | S | dibromofluoromethane (s) | 0.472 | 0.453 | 4.0 | 105 | 0.00 | 3.51 |
| 44 | | methacrylonitrile | 0.156 | 0.148 | 5.1 | 102 | 0.00 | 3.33 |
| 45 | | 1,1,1-trichloroethane | 0.517 | 0.465 | 10.1 | 100 | -0.01 | 3.52 |
| 46 | | cyclohexane | 0.473 | 0.382 | 19.2 | 94 | 0.00 | 3.58 |
| 47 | m | tert amyl alcohol | 0.027 | 0.024 | 11.1 | 103 | -0.01 | 3.71 |
| 48 | | 1,1-dichloropropene | 0.425 | 0.389 | 8.5 | 101 | 0.00 | 3.62 |
| 49 | | isobutyl alcohol | 0.007 | 0.006 | 14.3 | 112 | 0.00 | 3.81 |
| 50 | | carbon tetrachloride | 0.457 | 0.411 | 10.1 | 100 | 0.00 | 3.62 |
| 51 | | isopropyl acetate | 0.073 | 0.070 | 4.1 | 103 | 0.00 | 3.74 |
| 52 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 107 | 0.00 | 4.00 |
| 53 | S | 1,2-dichloroethane-d4 (s) | 0.382 | 0.377 | 1.3 | 105 | 0.00 | 3.73 |
| 54 | | iso-octane | 0.694 | 0.652 | 6.1 | 105 | 0.00 | 3.81 |
| 55 | | epichlorohydrin | 0.035 | 0.035 | 0.0 | 107 | 0.00 | 4.72 |
| 56 | | n-butyl alcohol | 0.011 | 0.012 | -9.1 | 109 | 0.00 | 4.05 |
| 57 | | benzene | 0.839 | 0.748 | 10.8 | 99 | 0.00 | 3.75 |
| 58 | | tert-amyl methyl ether | 0.553 | 0.519 | 6.1 | 102 | 0.00 | 3.81 |
| 59 | | heptane | 0.125 | 0.123 | 1.6 | 106 | 0.00 | 3.91 |
| 60 | | 1,2-dichloroethane | 0.316 | 0.279 | 11.7 | 103 | 0.00 | 3.77 |
| 61 | | trichloroethene | 0.261 | 0.242 | 7.3 | 98 | 0.00 | 4.16 |
| 62 | m | ethyl acrylate | 0.341 | 0.331 | 2.9 | 105 | 0.00 | 4.18 |
| 63 | | 2-nitropropane | 0.084 | 0.079 | 6.0 | 110 | 0.00 | 4.64 |
| 64 | | 2-chloroethyl vinyl ether | 0.145 | 0.143 | 1.4 | 105 | 0.00 | 4.68 |
| 65 | | methyl methacrylate | 0.068 | 0.064 | 5.9 | 101 | 0.00 | 4.34 |
| 66 | | 1,2-dichloropropane | 0.082 | 0.077 | 6.1 | 99 | 0.00 | 4.33 |
| 67 | | dibromomethane | 0.142 | 0.126 | 11.3 | 101 | 0.00 | 4.39 |
| 68 | | methylcyclohexane | 0.352 | 0.329 | 6.5 | 103 | 0.00 | 4.32 |
| 69 | | bromodichloromethane | 0.242 | 0.225 | 7.0 | 100 | 0.00 | 4.50 |
| 70 | | cis-1,3-dichloropropene | 0.281 | 0.277 | 1.4 | 104 | 0.00 | 4.80 |
| 71 | | 4-methyl-2-pentanone | 0.115 | 0.112 | 2.6 | 104 | 0.00 | 4.88 |
| 72 | | 3-methyl-1-butanol | 0.009 | 0.010 | -11.1 | 111 | 0.00 | 4.91 |
| 73 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 106 | 0.00 | 6.07 |
| 74 | S | toluene-d8 (s) | 1.196 | 1.179 | 1.4 | 105 | 0.00 | 4.99 |
| 75 | | toluene | 0.547 | 0.508 | 7.1 | 99 | 0.00 | 5.04 |
| 76 | | trans-1,3-dichloropropene | 0.274 | 0.271 | 1.1 | 104 | 0.00 | 5.19 |
| 77 | | ethyl methacrylate | 0.276 | 0.260 | 5.8 | 100 | 0.00 | 5.21 |
| 78 | | 1,1,2-trichloroethane | 0.166 | 0.154 | 7.2 | 102 | 0.00 | 5.34 |
| 79 | | tetrachloroethene | 0.220 | 0.206 | 6.4 | 102 | 0.00 | 5.42 |
| 80 | | 1,3-dichloropropane | 0.318 | 0.291 | 8.5 | 101 | 0.00 | 5.47 |
| 81 | | 2-hexanone | 0.129 | 0.125 | 3.1 | 103 | 0.00 | 5.49 |
| 82 | | butyl acetate | 0.183 | 0.169 | 7.7 | 103 | 0.00 | 5.56 |
| 83 | | dibromochloromethane | 0.218 | 0.206 | 5.5 | 102 | 0.00 | 5.63 |
| 84 | | 1,2-dibromoethane | 0.221 | 0.212 | 4.1 | 101 | 0.00 | 5.73 |
| 85 | m | n-butyl ether | 0.887 | 0.815 | 8.1 | 99 | 0.00 | 6.14 |
| 86 | | chlorobenzene | 0.621 | 0.567 | 8.7 | 100 | 0.00 | 6.10 |
| 87 | | 1,1,1,2-tetrachloroethane | 0.214 | 0.203 | 5.1 | 101 | 0.00 | 6.16 |
| 88 | | ethylbenzene | 1.049 | 0.951 | 9.3 | 99 | 0.00 | 6.16 |
| 89 | | m,p-xylene | 0.413 | 0.384 | 7.0 | 99 | 0.00 | 6.27 |
| 90 | | o-xylene | 0.784 | 0.724 | 7.7 | 99 | 0.00 | 6.57 |
| 91 | | styrene | 0.665 | 0.611 | 8.1 | 99 | 0.00 | 6.59 |
| 92 | | butyl acrylate | 0.450 | 0.438 | 2.7 | 102 | 0.00 | 6.51 |
| 93 | | n-amyl acetate | 0.150 | 0.146 | 2.7 | 101 | 0.00 | 6.68 |
| 94 | | bromoform | 0.145 | 0.139 | 4.1 | 102 | 0.00 | 6.74 |
| 95 | | isopropylbenzene | 1.022 | 0.949 | 7.1 | 98 | 0.00 | 6.86 |
| | | | True | Calc. | % Drift | | | |
| 96 | | cis-1,4-dichloro-2-butene | 20.000 | 18.794 | 6.0 | 120 | 0.00 | 6.91 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** V1X8637-CC8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200580.D
**Project:** EPT, Ithaca, NY

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 97 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 7.88 |
| 98 | S | 4-bromofluorobenzene (s) | 0.868 | 0.861 | 0.8 | 105 | 0.00 | 7.00 |
| 99 | | bromobenzene | 0.549 | 0.512 | 6.7 | 102 | 0.00 | 7.12 |
| 100 | | 1,1,2,2-tetrachloroethane | 0.544 | 0.539 | 0.9 | 103 | 0.00 | 7.10 |
| 101 | | trans-1,4-dichloro-2-bute | 0.158 | 0.163 | -3.2 | 113 | 0.00 | 7.13 |
| 102 | | 1,2,3-trichloropropane | 0.179 | 0.172 | 3.9 | 100 | 0.00 | 7.15 |
| 103 | | n-propylbenzene | 2.270 | 2.155 | 5.1 | 100 | 0.00 | 7.19 |
| 104 | | 2-chlorotoluene | 0.504 | 0.475 | 5.8 | 99 | 0.00 | 7.26 |
| 105 | | 4-chlorotoluene | 1.322 | 1.209 | 8.5 | 97 | 0.00 | 7.35 |
| 106 | | 1,3,5-trimethylbenzene | 1.482 | 1.392 | 6.1 | 98 | 0.00 | 7.33 |
| 107 | | tert-butylbenzene | 1.442 | 1.360 | 5.7 | 99 | 0.00 | 7.57 |
| 108 | | 1,2,4-trimethylbenzene | 1.501 | 1.381 | 8.0 | 98 | 0.00 | 7.61 |
| 109 | | sec-butylbenzene | 1.983 | 1.905 | 3.9 | 100 | 0.00 | 7.73 |
| 110 | | 1,3-dichlorobenzene | 0.982 | 0.929 | 5.4 | 101 | 0.00 | 7.82 |
| 111 | | p-isopropyltoluene | 1.681 | 1.628 | 3.2 | 100 | 0.00 | 7.85 |
| 112 | | 1,4-dichlorobenzene | 1.012 | 0.940 | 7.1 | 100 | 0.00 | 7.90 |
| 113 | | 1,2-dichlorobenzene | 0.918 | 0.879 | 4.2 | 100 | 0.00 | 8.16 |
| 114 | | benzyl chloride | 0.812 | 0.970 | -19.5 | 123 | 0.00 | 7.98 |
| 115 | | n-butylbenzene | 0.739 | 0.713 | 3.5 | 101 | 0.00 | 8.13 |
| 116 | | 1,2-dibromo-3-chloropropa | 0.163 | 0.165 | -1.2 | 107 | 0.00 | 8.69 |
| 117 | | 1,3,5-trichlorobenzene | 0.590 | 0.561 | 4.9 | 101 | 0.00 | 8.81 |
| 118 | | hexachlorobutadiene | 0.210 | 0.211 | -0.5 | 106 | 0.00 | 9.30 |
| 119 | | naphthalene | 1.931 | 1.834 | 5.0 | 104 | 0.00 | 9.38 |
| 120 | | 1,2,4-trichlorobenzene | 0.514 | 0.497 | 3.3 | 105 | 0.00 | 9.22 |
| 121 | m | 1,2,3-trichlorobenzene | 0.501 | 0.475 | 5.2 | 102 | 0.00 | 9.52 |

| | | True | Calc. | % Drift | | | |
|---|---|---|---|---|---|---|---|
| 122 | hexachloroethane | 20.000 | 16.539 | 17.3 | 99 | 0.00 | 8.35 |

| | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|
| 123 | 2-methylnaphthalene | 0.943 | 0.956 | -1.4 | 108 | 0.00 | 10.11 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1X200560.D M1X8636.M Mon Oct 03 06:40:53 2022

# Continuing Calibration Summary



**Job Number:** JD52507 **Sample:** V1X8638-CC8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200612.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\KI...22\v1x8638\1x200612.d Vial: 35
Acq On : 29 Sep 2022 10:33 pm Operator: taylors
Sample : cc8636-20 Inst : ACC-VOA-MSX
Misc : MS62553,V1X8638,5,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\m1x8636.m (RTE Integrator)
Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
Last Update : Thu Sep 29 10:06:17 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 2.44 |
| 2 | | ethanol | 0.048 | 0.048 | 0.0 | 110 | 0.00 | 1.94 |
| 3 | | tertiary butyl alcohol | 0.756 | 0.707 | 6.5 | 100 | 0.00 | 2.49 |
| 4 | | 1,4-dioxane | 0.060 | 0.060 | 0.0 | 102 | 0.00 | 4.38 |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 108 | 0.00 | 3.51 |
| 6 | | chlorodifluoromethane | | ----------NA---------- | | | | |
| 7 | | dichlorodifluoromethane | 0.400 | 0.445 | -11.2 | 121 | 0.00 | 1.23 |
| 8 | | chloromethane | 0.418 | 0.389 | 6.9 | 105 | -0.01 | 1.36 |
| 9 | | vinyl chloride | 0.441 | 0.449 | -1.8 | 111 | -0.01 | 1.43 |
| 10 | | bromomethane | 0.061 | 0.058 | 4.9 | 97 | 0.00 | 1.63 |
| 11 | | chloroethane | 0.195 | 0.194 | 0.5 | 112 | 0.00 | 1.70 |
| 12 | | trichlorofluoromethane | 0.578 | 0.572 | 1.0 | 107 | -0.01 | 1.85 |
| 13 | | 1,3-butadiene | 0.352 | 0.519 | -47.4# | 152 | 0.00 | 1.45 |
| 14 | | ethyl ether | 0.147 | 0.128 | 12.9 | 94 | -0.01 | 2.01 |
| 15 | | acrolein | 0.083 | 0.081 | 2.4 | 110 | 0.00 | 2.10 |
| 16 | | 1,1-dichloroethene | 0.279 | 0.232 | 16.8 | 89 | 0.00 | 2.17 |
| 17 | | freon 113 | 0.340 | 0.272 | 20.0 | 87 | 0.00 | 2.16 |
| 18 | | acetone | 0.047 | 0.038 | 19.1 | 89 | 0.00 | 2.18 |
| 19 | | acetonitrile | 0.066 | 0.038 | 42.4# | 65 | 0.00 | 2.35 |
| 20 | | iodomethane | 0.128 | 0.094 | 26.6 | 99 | 0.00 | 2.26 |
| 21 | | carbon disulfide | 0.701 | 0.561 | 20.0 | 87 | 0.00 | 2.31 |
| 22 | | methylene chloride | 0.271 | 0.231 | 14.8 | 92 | 0.00 | 2.46 |
| 23 | | methyl acetate | 0.385 | 0.368 | 4.4 | 107 | 0.00 | 2.36 |
| 24 | | methyl tert butyl ether | 0.806 | 0.710 | 11.9 | 98 | 0.00 | 2.60 |
| 25 | | acrylonitrile | 0.179 | 0.160 | 10.6 | 98 | 0.00 | 2.58 |
| 26 | | trans-1,2-dichloroethene | 0.302 | 0.248 | 17.9 | 89 | 0.00 | 2.62 |
| 27 | | hexane | 0.477 | 0.466 | 2.3 | 110 | 0.00 | 2.77 |
| 28 | | di-isopropyl ether | 1.005 | 0.864 | 14.0 | 94 | 0.00 | 2.87 |
| 29 | | 2-butanone | 0.052 | 0.048 | 7.7 | 99 | 0.00 | 3.19 |
| 30 | | 1,1-dichloroethane | 0.524 | 0.434 | 17.2 | 90 | 0.00 | 2.87 |
| 31 | | chloroprene | 0.496 | 0.448 | 9.7 | 93 | 0.00 | 2.91 |
| 32 | | vinyl acetate | 0.058 | 0.042 | 27.6 | 78 | 0.00 | 2.86 |
| 33 | | ethyl tert-butyl ether | 0.897 | 0.768 | 14.4 | 93 | 0.00 | 3.09 |
| 34 | | ethyl acetate | 0.079 | 0.073 | 7.6 | 105 | 0.00 | 3.20 |
| 35 | | 2,2-dichloropropane | 0.435 | 0.333 | 23.4 | 85 | 0.00 | 3.22 |
| 36 | | cis-1,2-dichloroethene | 0.326 | 0.268 | 17.8 | 91 | 0.00 | 3.21 |
| 37 | | methyl acrylate | 0.493 | 0.443 | 10.1 | 96 | 0.00 | 3.24 |
| 38 | | propionitrile | 0.075 | 0.062 | 17.3 | 91 | 0.00 | 3.23 |
| 39 | | tert-butyl formate | 0.196 | 0.109 | 44.4# | 63 | -0.01 | 3.42 |
| 40 | | bromochloromethane | 0.166 | 0.141 | 15.1 | 96 | 0.00 | 3.36 |
| 41 | | tetrahydrofuran | 0.167 | 0.144 | 13.8 | 97 | 0.00 | 3.36 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** V1X8638-CC8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200612.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 42 | | chloroform | 0.541 | 0.438 | 19.0 | 93 | 0.00 | 3.41 |
| 43 | S | dibromofluoromethane (s) | 0.472 | 0.450 | 4.7 | 103 | 0.00 | 3.51 |
| 44 | | methacrylonitrile | 0.156 | 0.145 | 7.1 | 99 | 0.00 | 3.33 |
| 45 | | 1,1,1-trichloroethane | 0.517 | 0.422 | 18.4 | 90 | 0.00 | 3.53 |
| 46 | | cyclohexane | 0.473 | 0.441 | 6.8 | 107 | 0.00 | 3.58 |
| 47 | m | tert amyl alcohol | 0.027 | 0.024 | 11.1 | 98 | 0.00 | 3.72 |
| 48 | | 1,1-dichloropropene | 0.425 | 0.356 | 16.2 | 91 | 0.00 | 3.62 |
| 49 | | isobutyl alcohol | 0.007 | 0.005 | 28.6 | 100 | 0.00 | 3.81 |
| 50 | | carbon tetrachloride | 0.457 | 0.358 | 21.7 | 86 | 0.00 | 3.62 |
| 51 | | isopropyl acetate | 0.073 | 0.069 | 5.5 | 100 | 0.00 | 3.74 |
| 52 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 4.00 |
| 53 | S | 1,2-dichloroethane-d4 (s) | 0.382 | 0.375 | 1.8 | 103 | 0.00 | 3.73 |
| 54 | | iso-octane | 0.694 | 0.562 | 19.0 | 90 | 0.00 | 3.81 |
| 55 | | epichlorohydrin | 0.035 | 0.032 | 8.6 | 96 | 0.00 | 4.72 |
| 56 | | n-butyl alcohol | 0.011 | 0.011 | 0.0 | 101 | 0.00 | 4.05 |
| 57 | | benzene | 0.839 | 0.705 | 16.0 | 92 | 0.00 | 3.75 |
| 58 | | tert-amyl methyl ether | 0.553 | 0.483 | 12.7 | 93 | 0.00 | 3.81 |
| 59 | | heptane | 0.125 | 0.121 | 3.2 | 103 | 0.00 | 3.91 |
| 60 | | 1,2-dichloroethane | 0.316 | 0.264 | 16.5 | 96 | 0.00 | 3.77 |
| 61 | | trichloroethene | 0.261 | 0.224 | 14.2 | 90 | 0.00 | 4.16 |
| 62 | m | ethyl acrylate | 0.341 | 0.301 | 11.7 | 94 | 0.00 | 4.18 |
| 63 | | 2-nitropropane | 0.084 | 0.076 | 9.5 | 104 | 0.00 | 4.64 |
| 64 | | 2-chloroethyl vinyl ether | 0.145 | 0.127 | 12.4 | 91 | 0.00 | 4.68 |
| 65 | | methyl methacrylate | 0.068 | 0.067 | 1.5 | 105 | 0.00 | 4.34 |
| 66 | | 1,2-dichloropropane | 0.082 | 0.073 | 11.0 | 93 | 0.00 | 4.33 |
| 67 | | dibromomethane | 0.142 | 0.120 | 15.5 | 94 | 0.00 | 4.39 |
| 68 | | methylcyclohexane | 0.352 | 0.310 | 11.9 | 95 | 0.00 | 4.32 |
| 69 | | bromodichloromethane | 0.242 | 0.204 | 15.7 | 89 | 0.00 | 4.50 |
| 70 | | cis-1,3-dichloropropene | 0.281 | 0.242 | 13.9 | 89 | 0.00 | 4.80 |
| 71 | | 4-methyl-2-pentanone | 0.115 | 0.107 | 7.0 | 98 | 0.00 | 4.89 |
| 72 | | 3-methyl-1-butanol | 0.009 | 0.009 | 0.0 | 103 | 0.00 | 4.91 |
| 73 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 6.07 |
| 74 | S | toluene-d8 (s) | 1.196 | 1.173 | 1.9 | 104 | 0.00 | 5.00 |
| 75 | | toluene | 0.547 | 0.475 | 13.2 | 92 | 0.00 | 5.04 |
| 76 | | trans-1,3-dichloropropene | 0.274 | 0.241 | 12.0 | 92 | 0.00 | 5.19 |
| 77 | | ethyl methacrylate | 0.276 | 0.233 | 15.6 | 89 | 0.00 | 5.21 |
| 78 | | 1,1,2-trichloroethane | 0.166 | 0.149 | 10.2 | 98 | 0.00 | 5.34 |
| 79 | | tetrachloroethene | 0.220 | 0.194 | 11.8 | 95 | 0.00 | 5.42 |
| 80 | | 1,3-dichloropropane | 0.318 | 0.276 | 13.2 | 95 | 0.00 | 5.47 |
| 81 | | 2-hexanone | 0.129 | 0.116 | 10.1 | 95 | 0.00 | 5.49 |
| 82 | | butyl acetate | 0.183 | 0.162 | 11.5 | 98 | 0.00 | 5.56 |
| 83 | | dibromochloromethane | 0.218 | 0.191 | 12.4 | 94 | 0.00 | 5.63 |
| 84 | | 1,2-dibromoethane | 0.221 | 0.203 | 8.1 | 96 | 0.00 | 5.73 |
| 85 | m | n-butyl ether | 0.887 | 0.727 | 18.0 | 88 | 0.00 | 6.15 |
| 86 | | chlorobenzene | 0.621 | 0.530 | 14.7 | 92 | 0.00 | 6.10 |
| 87 | | 1,1,1,2-tetrachloroethane | 0.214 | 0.186 | 13.1 | 92 | 0.00 | 6.16 |
| 88 | | ethylbenzene | 1.049 | 0.876 | 16.5 | 91 | 0.00 | 6.16 |
| 89 | | m,p-xylene | 0.413 | 0.352 | 14.8 | 90 | 0.00 | 6.27 |
| 90 | | o-xylene | 0.784 | 0.677 | 13.6 | 92 | 0.00 | 6.57 |
| 91 | | styrene | 0.665 | 0.569 | 14.4 | 91 | 0.00 | 6.59 |
| 92 | | butyl acrylate | 0.450 | 0.396 | 12.0 | 92 | 0.00 | 6.51 |
| 93 | | n-amyl acetate | 0.150 | 0.135 | 10.0 | 93 | 0.00 | 6.69 |
| 94 | | bromoform | 0.145 | 0.125 | 13.8 | 91 | 0.00 | 6.74 |
| 95 | | isopropylbenzene | 1.022 | 0.884 | 13.5 | 91 | 0.00 | 6.86 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 96 | | cis-1,4-dichloro-2-butene | 20.000 | 9.391 | 53.0# | 49 | 0.00 | 6.91 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** V1X8638-CC8636
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 1X200612.D
**Project:** EPT, Ithaca, NY

| | | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 97 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 7.88 |
| 98 | S | 4-bromofluorobenzene (s) | 0.868 | 0.853 | 1.7 | 104 | 0.00 | 7.00 |
| 99 | | bromobenzene | 0.549 | 0.479 | 12.8 | 95 | 0.00 | 7.13 |
| 100 | | 1,1,2,2-tetrachloroethane | 0.544 | 0.518 | 4.8 | 98 | 0.00 | 7.10 |
| 101 | | trans-1,4-dichloro-2-bute | 0.158 | 0.092 | 41.8# | 63 | 0.00 | 7.13 |
| 102 | | 1,2,3-trichloropropane | 0.179 | 0.163 | 8.9 | 94 | 0.00 | 7.15 |
| 103 | | n-propylbenzene | 2.270 | 1.969 | 13.3 | 91 | 0.00 | 7.19 |
| 104 | | 2-chlorotoluene | 0.504 | 0.437 | 13.3 | 91 | 0.00 | 7.26 |
| 105 | | 4-chlorotoluene | 1.322 | 1.132 | 14.4 | 91 | 0.00 | 7.36 |
| 106 | | 1,3,5-trimethylbenzene | 1.482 | 1.296 | 12.6 | 91 | 0.00 | 7.33 |
| 107 | | tert-butylbenzene | 1.442 | 1.586 | -10.0 | 115 | 0.00 | 7.57 |
| 108 | | 1,2,4-trimethylbenzene | 1.501 | 1.286 | 14.3 | 91 | 0.00 | 7.61 |
| 109 | | sec-butylbenzene | 1.983 | 1.738 | 12.4 | 91 | 0.00 | 7.73 |
| 110 | | 1,3-dichlorobenzene | 0.982 | 0.851 | 13.3 | 92 | 0.00 | 7.82 |
| 111 | | p-isopropyltoluene | 1.681 | 1.473 | 12.4 | 90 | 0.00 | 7.85 |
| 112 | | 1,4-dichlorobenzene | 1.012 | 0.883 | 12.7 | 94 | 0.00 | 7.90 |
| 113 | | 1,2-dichlorobenzene | 0.918 | 0.829 | 9.7 | 94 | 0.00 | 8.16 |
| 114 | | benzyl chloride | 0.812 | 0.650 | 20.0 | 82 | 0.00 | 7.98 |
| 115 | | n-butylbenzene | 0.739 | 0.645 | 12.7 | 91 | 0.00 | 8.13 |
| 116 | | 1,2-dibromo-3-chloropropa | 0.163 | 0.145 | 11.0 | 93 | 0.00 | 8.69 |
| 117 | | 1,3,5-trichlorobenzene | 0.590 | 0.515 | 12.7 | 93 | 0.00 | 8.81 |
| 118 | | hexachlorobutadiene | 0.210 | 0.191 | 9.0 | 95 | 0.00 | 9.30 |
| 119 | | naphthalene | 1.931 | 1.768 | 8.4 | 100 | 0.00 | 9.39 |
| 120 | | 1,2,4-trichlorobenzene | 0.514 | 0.464 | 9.7 | 98 | 0.00 | 9.22 |
| 121 | m | 1,2,3-trichlorobenzene | 0.501 | 0.441 | 12.0 | 94 | 0.00 | 9.52 |

| | | True | Calc. | % Drift | | | |
|---|---|---|---|---|---|---|---|
| 122 | hexachloroethane | 20.000 | 14.834 | 25.8 | 87 | 0.00 | 8.35 |

| | | AvgRF | CCRF | % Dev | | | |
|---|---|---|---|---|---|---|---|
| 123 | 2-methylnaphthalene | 0.943 | 0.906 | 3.9 | 101 | 0.00 | 10.11 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1X200560.D m1x8636.m Fri Sep 30 14:36:00 2022

# Initial Calibration Summary



**Job Number:** JD52507 **Sample:** V2A9511-ICC9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A218788.D
**Project:** EPT, Ithaca, NY

Response Factor Report GCMS2A

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
Last Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

Calibration Files
4 =2A218785.D 8 =2A218786.D 0.5 =2A218782.D 50 =2A218788.D
100 =2A218789.D 1 =2A218783.D 200 =2A218790.D 20 =2A218787.D
2 =2A218784.D 0.2 =2A218781.D = =

| Compound | 4 | 8 | 0.5 | 50 | 100 | 1 | 200 | 20 | 2 | 0.2 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) I tert butyl alcohol-d9 | ----------ISTD---------- | | | | | | | | | | | |
| 2) ethanol | 0.120 | 0.117 | | 0.121 | 0.134 | 0.120 | 0.134 | 0.117 | 0.110 | | 0.122 | 6.95 |
| 3) tertiary butyl alcohol | 1.168 | 1.193 | | 1.217 | 1.273 | 1.227 | 1.234 | 1.165 | 1.350 | | 1.228 | 4.94 |
| 4) 1,4-dioxane | 0.086 | 0.089 | | 0.092 | 0.096 | 0.068 | 0.094 | 0.085 | 0.079 | | 0.086 | 10.61 |
| 5) I pentafluorobenzene | ----------ISTD---------- | | | | | | | | | | | |
| 6) chlorodifluoromethane | 0.751 | 0.738 | 0.643 | 0.665 | 0.665 | 0.679 | 0.618 | 0.653 | 0.725 | | 0.682 | 6.72 |
| 7) dichlorodifluoromethane | 0.722 | 0.699 | 0.565 | 0.680 | 0.664 | 0.696 | 0.637 | 0.671 | 0.710 | | 0.672 | 7.06 |
| 8) chloromethane | 0.915 | 0.867 | 0.962 | 0.820 | 0.809 | 0.904 | 0.736 | 0.812 | 0.996 | | 0.869 | 9.53 |
| 9) vinyl chloride | 0.704 | 0.677 | 0.606 | 0.658 | 0.651 | 0.694 | 0.610 | 0.641 | 0.738 | | 0.665 | 6.56 |
| 10) 1,3-butadiene | 0.640 | 0.614 | 0.689 | 0.550 | 0.542 | 0.589 | 0.499 | 0.569 | 0.636 | | 0.592 | 9.92 |
| 11) bromomethane | 0.407 | 0.372 | 0.436 | 0.376 | 0.387 | 0.397 | 0.373 | 0.361 | 0.417 | | 0.392 | 6.24 |
| 12) chloroethane | 0.333 | 0.307 | 0.288 | 0.315 | 0.324 | 0.311 | 0.317 | 0.305 | 0.331 | | 0.315 | 4.46 |
| 13) trichlorofluoromethane | 0.806 | 0.760 | 0.657 | 0.759 | 0.759 | 0.724 | 0.732 | 0.744 | 0.838 | 0.669 | 0.745 | 7.36 |
| 14) ethyl ether | 0.239 | 0.237 | 0.236 | 0.231 | 0.239 | 0.230 | 0.232 | 0.230 | 0.262 | | 0.237 | 4.16 |
| 15) acrolein | 0.087 | 0.108 | | 0.110 | 0.114 | 0.109 | 0.112 | 0.098 | 0.111 | | 0.106 | 8.58 |
| 16) freon 113 | 0.369 | 0.354 | 0.409 | 0.339 | 0.340 | 0.337 | 0.330 | 0.330 | 0.377 | | 0.354 | 7.53 |
| 17) 1,1-dichloroethene | 0.386 | 0.382 | 0.403 | 0.357 | 0.359 | 0.356 | 0.340 | 0.352 | 0.403 | | 0.371 | 6.25 |
| 18) acetone | 0.197 | 0.194 | 0.213 | 0.181 | 0.188 | 0.195 | 0.176 | 0.180 | 0.207 | | 0.192 | 6.53 |
| 19) acetonitrile | 0.085 | 0.079 | 0.077 | 0.077 | 0.080 | 0.079 | 0.076 | 0.076 | 0.085 | | 0.079 | 4.41 |
| 20) iodomethane | 0.766 | 0.750 | 0.789 | 0.701 | 0.707 | 0.684 | 0.667 | 0.692 | 0.746 | 0.738 | 0.724 | 5.45 |
| 21) carbon disulfide | 1.277 | 1.276 | 1.318 | 1.194 | 1.194 | 1.229 | 1.096 | 1.169 | 1.308 | | 1.229 | 5.92 |
| 22) methylene chloride | 0.451 | 0.431 | 0.543 | 0.412 | 0.422 | 0.433 | 0.398 | 0.402 | 0.464 | | 0.440 | 10.09 |
| 23) methyl acetate | | | | | | | | | | | | |

```
      0.490 0.513 0.470 0.476 0.493 0.432 0.463 0.468 0.508        0.479    5.17
24)  methyl tert butyl ether
      1.373 1.341 1.462 1.257 1.275 1.298 1.166 1.250 1.415 1.391  1.323    6.79
25)  trans-1,2-dichloroethene
      0.426 0.417 0.471 0.399 0.403 0.429 0.383 0.392 0.464        0.420    7.33
26)  hexane
      0.763 0.763 0.802 0.708 0.712 0.706 0.677 0.716 0.772 0.853  0.747    7.13
27)  di-isopropyl ether
      1.920 1.914 1.844 1.790 1.776 1.729 1.573 1.786 1.963 2.017  1.831    7.07
28)  ethyl tert-butyl ether
      1.665 1.636 1.598 1.563 1.557 1.555 1.404 1.536 1.672 1.752  1.594    5.96
29)  2-butanone
      0.052 0.051       0.053 0.057 0.045 0.054 0.050 0.053        0.052    6.22
30)  1,1-dichloroethane
      0.818 0.847 0.885 0.792 0.807 0.798 0.752 0.781 0.861 0.880  0.822    5.40
31)  chloroprene
      0.800 0.831 0.737 0.784 0.798 0.735 0.744 0.770 0.796 0.811  0.781    4.22
32)  acrylonitrile
      0.211 0.214       0.217 0.229 0.185 0.222 0.211 0.207        0.212    6.14
33)  vinyl acetate
      0.075 0.086       0.080 0.091 0.054 0.087 0.075 0.072        0.078   15.02
34)  ethyl acetate
      0.100 0.106       0.097 0.103 0.069 0.100 0.092 0.101        0.096   11.99
35)  2,2-dichloropropane
      0.672 0.676 0.758 0.624 0.629 0.644 0.589 0.597 0.659 0.720  0.657    8.04
36)  cis-1,2-dichloroethene
      0.469 0.479 0.567 0.444 0.451 0.453 0.428 0.430 0.498 0.405  0.462    9.86
37)  propionitrile
      0.081 0.081 0.076 0.079 0.082 0.075 0.075 0.077 0.086        0.079    4.93
38)  bromochloromethane
      0.311 0.323 0.301 0.307 0.310 0.302 0.294 0.297 0.322        0.307    3.27
39)  tetrahydrofuran
      0.235 0.216       0.194 0.204 0.262 0.193 0.197 0.254        0.219   12.58
40)  chloroform
      0.849 0.849 1.116 0.791 0.788 0.876 0.720 0.777 0.921        0.854   13.46
41)  tert-butyl formate  *This compound fails initial calibration criteria.*
      0.419 0.416 0.397 0.439 0.476 0.371 0.451 0.415 0.393 0.376  0.415    8.00
42)  isobutyl alcohol
      0.031 0.034       0.035 0.035 0.030 0.032 0.031 0.038        0.033    8.27
43)  dibromofluoromethane (s)
      0.473 0.472 0.469 0.475 0.465 0.473 0.470 0.470 0.474 0.465  0.471    0.75
44)  methacrylonitrile
      0.204 0.194       0.196 0.208 0.183 0.200 0.190 0.197        0.196    3.97
45)  1,1,1-trichloroethane
      0.786 0.754 0.792 0.728 0.734 0.731 0.676 0.717 0.787 0.712  0.742    5.09
46)  cyclohexane
      0.658 0.626 0.566 0.620 0.633 0.614 0.605 0.602 0.704 0.570  0.620    6.51
47)  1,1-dichloropropene
      0.612 0.619 0.649 0.571 0.583 0.543 0.539 0.563 0.630 0.663  0.597    7.32
48)  tert-amyl alcohol
      0.034 0.033       0.030 0.033 0.036 0.032 0.031 0.037        0.033    6.50
49)  carbon tetrachloride
      0.691 0.704 0.721 0.657 0.668 0.638 0.615 0.633 0.699 0.670  0.669    5.14

50) I   1,4-difluorobenzene   ----------------ISTD---------------------
51)  1,2-dichloroethane-d4 (s)
      0.464 0.465 0.464 0.466 0.465 0.463 0.463 0.465 0.467 0.467  0.465    0.29
52)  2,2,4-trimethylpentane
      1.456 1.485 1.387 1.354 1.365 1.393 1.208 1.388 1.467 1.549  1.405    6.59
53)  tert-amyl methyl ether
```

```
      1.069 1.049 1.090 0.994 0.998 1.015 0.883 0.984 1.072 1.144  1.030    6.99
54)  n-butyl alcohol
      0.012 0.013 0.012 0.013 0.014 0.011 0.013 0.013 0.015        0.013    9.53
55)  benzene
      1.247 1.259 1.223 1.169 1.162 1.186 1.016 1.167 1.234 1.200  1.186    5.82
56)  heptane
      0.288 0.300 0.286 0.288 0.292 0.284 0.279 0.282 0.309 0.257  0.287    4.76
57)  isopropyl acetate
      0.071 0.078       0.072 0.079 0.074 0.075 0.071 0.076        0.074    4.50
58)  1,2-dichloroethane
      0.552 0.570 0.651 0.525 0.535 0.569 0.486 0.522 0.607        0.557    8.86
59)  trichloroethene
      0.350 0.351 0.374 0.332 0.337 0.325 0.315 0.321 0.350 0.336  0.339    5.15
60)  ethyl acrylate
      0.549 0.557 0.538 0.555 0.578 0.483 0.524 0.542 0.522        0.539    5.04
61)  2-nitropropane
      0.130 0.141       0.146 0.157 0.135 0.146 0.136 0.141        0.142    5.88
62)  2-chloroethyl vinyl ether
      0.105 0.124       0.159 0.185       0.173 0.139 0.086        0.139   26.10
            ----- Linear regression -----  Coefficient =  0.9963
              Response Ratio = -0.02656 + 0.17526 *A

63)  methyl methacrylate
      0.085 0.091       0.089 0.096 0.065 0.091 0.084 0.081        0.085   11.07
64)  1,2-dichloropropane
      0.373 0.371 0.347 0.344 0.355 0.344 0.333 0.334 0.367        0.352    4.33
65)  methylcyclohexane
      0.584 0.569 0.521 0.540 0.553 0.561 0.517 0.539 0.575 0.591  0.555    4.57
66)  dibromomethane
      0.227 0.228 0.268 0.218 0.228 0.203 0.213 0.219 0.248 0.259  0.231    9.02
67)  bromodichloromethane
      0.483 0.498 0.512 0.471 0.485 0.455 0.442 0.456 0.474 0.509  0.478    4.90
68)  epichlorohydrin
      0.042 0.043       0.044 0.046 0.032 0.043 0.042 0.045        0.042   10.18
69)  cis-1,3-dichloropropene
      0.543 0.547 0.531 0.533 0.545 0.494 0.490 0.525 0.538 0.489  0.524    4.49
70)  4-methyl-2-pentanone
      0.167 0.172 0.167 0.167 0.173 0.153 0.156 0.162 0.179 0.165  0.166    4.75
71)  3-methyl-1-butanol
      0.011 0.011 0.008 0.011 0.012 0.008 0.011 0.010 0.010        0.010   12.91

72) I   chlorobenzene-d5      ----------------ISTD---------------------
73)  toluene-d8 (s)
      1.227 1.234 1.225 1.230 1.230 1.221 1.208 1.235 1.226 1.213  1.225    0.72
74)  toluene
      0.821 0.818 0.847 0.772 0.781 0.749 0.697 0.772 0.843 0.842  0.794    6.14
75)  trans-1,3-dichloropropene
      0.562 0.564 0.505 0.537 0.547 0.483 0.494 0.521 0.535 0.516  0.527    5.22
76)  ethyl methacrylate
      0.466 0.486 0.396 0.473 0.488 0.380 0.442 0.473 0.463        0.452    8.63
77)  1,1,2-trichloroethane
      0.285 0.286 0.285 0.272 0.277 0.262 0.254 0.271 0.279 0.260  0.273    4.19
78)  2-hexanone
      0.171 0.172 0.163 0.168 0.175 0.151 0.153 0.167 0.175        0.166    5.31
79)  tetrachloroethene
      0.405 0.405 0.461 0.376 0.383 0.387 0.354 0.370 0.432 0.383  0.395    7.99
80)  1,3-dichloropropane
      0.529 0.537 0.537 0.502 0.512 0.491 0.466 0.490 0.556 0.620  0.524    8.23
81)  butyl acetate
      0.277 0.294 0.266 0.290 0.306 0.277 0.280 0.291 0.287        0.285    4.10
```

# Initial Calibration Summary

**Job Number:** JD52507 **Sample:** V2A9511-ICC9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A218788.D
**Project:** EPT, Ithaca, NY

82) dibromochloromethane
0.408 0.412 0.395 0.405 0.420 0.371 0.386 0.395 0.392 0.402 0.399 3.54
83) 1,2-dibromoethane
0.356 0.357 0.327 0.341 0.351 0.315 0.322 0.332 0.352 0.329 0.338 4.50
84) n-butyl ether
1.704 1.719 1.673 1.569 1.475 1.517 1.145 1.589 1.695 1.653 1.574 10.92
85) chlorobenzene
0.923 0.930 0.930 0.858 0.844 0.849 0.728 0.872 0.917 0.811 0.866 7.41
86) 1,1,1,2-tetrachloroethane
0.355 0.366 0.380 0.345 0.358 0.331 0.334 0.340 0.353 0.321 0.348 5.11
87) ethylbenzene
1.624 1.614 1.615 1.444 1.352 1.475 1.064 1.474 1.625 1.606 1.489 11.92
88) m,p-xylene
0.609 0.613 0.609 0.569 0.571 0.555 0.500 0.570 0.616 0.576 0.579 6.13
89) o-xylene
1.324 1.305 1.265 1.188 1.148 1.180 0.934 1.196 1.290 1.325 1.216 9.73
90) styrene
0.982 1.029 0.918 0.965 0.961 0.854 0.812 0.962 1.013 0.924 0.942 7.17
91) n-amyl acetate
0.246 0.256 0.211 0.258 0.271 0.218 0.253 0.250 0.251 0.246 7.87
92) bromoform
0.290 0.292 0.283 0.307 0.321 0.245 0.295 0.285 0.286 0.263 0.287 7.37
93) butyl acrylate
0.891 0.914 0.725 0.896 0.898 0.699 0.754 0.892 0.877 0.838 10.24
94) isopropylbenzene
1.543 1.593 1.545 1.452 1.359 1.388 1.080 1.480 1.587 1.471 1.450 10.47
95) cis-1,4-dichloro-2-butene
0.145 0.156 0.144 0.175 0.186 0.113 0.173 0.163 0.148 0.156 13.80

96) I 1,4-dichlorobenzene-d ----------ISTD----------
97) 4-bromofluorobenzene (s)
0.926 0.938 0.933 0.918 0.912 0.935 0.922 0.924 0.918 0.922 0.925 0.91
98) bromobenzene
0.799 0.827 0.884 0.758 0.771 0.739 0.709 0.751 0.822 0.943 0.800 8.90
99) 1,1,2,2-tetrachloroethane
0.889 0.883 0.885 0.836 0.843 0.822 0.761 0.838 0.884 0.856 0.850 4.66
100) trans-1,4-dichloro-2-butene
0.281 0.290 0.295 0.318 0.224 0.300 0.285 0.271 0.283 9.78
101) 1,2,3-trichloropropane
0.238 0.222 0.219 0.215 0.226 0.200 0.211 0.214 0.224 0.219 4.83
102) n-propylbenzene
3.535 3.580 3.477 3.142 2.874 3.246 2.209 3.236 3.521 3.271 3.209 12.87
103) 2-chlorotoluene
0.719 0.733 0.669 0.686 0.697 0.654 0.647 0.671 0.701 0.807 0.699 6.74
104) 4-chlorotoluene
2.204 2.197 2.184 1.973 1.899 2.011 1.608 2.021 2.227 2.086 2.041 9.26
105) 1,3,5-trimethylbenzene
2.363 2.452 2.420 2.209 2.113 2.139 1.728 2.208 2.428 2.232 2.229 9.66
106) tert-butylbenzene
2.055 2.080 2.065 1.908 1.842 1.862 1.587 1.876 2.014 2.021 1.931 7.82
107) 1,2,4-trimethylbenzene
2.447 2.503 2.402 2.249 2.131 2.191 1.738 2.272 2.398 2.373 2.270 9.72
108) sec-butylbenzene
3.127 3.179 3.030 2.864 2.678 2.799 2.113 2.889 3.159 2.956 2.879 10.93
109) 1,3-dichlorobenzene
1.481 1.505 1.543 1.387 1.369 1.416 1.203 1.395 1.557 1.408 1.426 7.25
110) p-isopropyltoluene
2.609 2.680 2.558 2.430 2.301 2.363 1.866 2.449 2.580 2.718 2.455 10.07
111) benzyl chloride
1.409 1.496 1.344 1.496 1.507 1.203 1.306 1.424 1.399 1.398 7.21

# Initial Calibration Summary

**Job Number:** JD52507 **Sample:** V2A9511-ICC9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A218788.D
**Project:** EPT, Ithaca, NY

```
112)  1,2,3-trimethylbenzene
       2.465 2.503 2.650 2.286 2.164 2.242 1.744 2.301 2.522 2.539  2.341   11.13
113)  1,4-dichlorobenzene
       1.534 1.543 1.454 1.419 1.413 1.497 1.227 1.399 1.584 1.762  1.483    9.44
114)  1,2-dichlorobenzene
       1.452 1.500 1.429 1.384 1.356 1.388 1.173 1.381 1.484 1.395  1.394    6.51
115)  n-butylbenzene
       1.354 1.417 1.295 1.328 1.321 1.202 1.155 1.316 1.416 1.255  1.306    6.44
116)  1,2-dibromo-3-chloropropane
       0.167 0.206 0.157 0.198 0.208 0.154 0.195 0.188 0.188        0.184   10.96
117)  1,3,5-trichlorobenzene
       1.140 1.148 1.116 1.094 1.082 1.032 0.955 1.064 1.144 1.120  1.090    5.53
118)  1,2,4-trichlorobenzene
       0.983 1.000 0.897 0.981 0.989 0.848 0.881 0.962 0.968 0.862  0.937    6.21
119)  hexachlorobutadiene
       0.518 0.529 0.451 0.486 0.503 0.469 0.464 0.483 0.507 0.413  0.482    7.16
120)  naphthalene
       2.332 2.429 1.960 2.388 2.334 2.078 1.906 2.348 2.344 2.209  2.233    8.37
121)  1,2,3-trichlorobenzene
       0.922 0.936 0.859 0.924 0.936 0.789 0.843 0.900 0.949 0.765  0.882    7.41
122)  hexachloroethane
       0.396 0.448 0.353 0.445 0.463 0.331 0.436 0.415 0.395 0.337  0.402   11.91
123)  2-methylnaphthalene
       0.967 1.086       1.269 1.387       1.276 1.124 0.858        1.138   16.39

124)     pentafluorobenzene(a) ----------------ISTD---------------------
125)  vinyl bromide
                                                                     0.000   -1.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M2A9511.M         Mon Aug 01 15:19:14 2022   MS2A
```

# Initial Calibration Verification



**Job Number:** JD52507 **Sample:** V2A9511-ICV9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A218793.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDChem\1\DATA\V2A9511\2A218793.D Vial: 14
Acq On : 31 Jul 2022 11:03 pm Operator: PrashanS
Sample : ICV9511-50 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
Last Update : Mon Aug 01 15:13:00 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 7.25 |
| 2 | ethanol | 0.122 | 0.123 | -0.8 | 105 | 0.00 | 5.98 |
| 3 | tertiary butyl alcohol | 1.228 | 1.271 | -3.5 | 108 | 0.01 | 7.37 |
| 4 | 1,4-dioxane | 0.086 | 0.093 | -8.1 | 105 | 0.00 | 11.08 |
| 5 I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 9.51 |
| 6 | chlorodifluoromethane | | ----------NA---------- | | | | |
| 7 | dichlorodifluoromethane | 0.672 | 0.654 | 2.7 | 100 | 0.00 | 3.96 |
| 8 | chloromethane | 0.869 | 0.753 | 13.3 | 96 | 0.00 | 4.35 |
| 9 | vinyl chloride | 0.665 | 0.652 | 2.0 | 103 | 0.00 | 4.57 |
| 10 | 1,3-butadiene | 0.592 | 0.676 | -14.2 | 128 | 0.00 | 4.62 |
| 11 | bromomethane | 0.392 | 0.394 | -0.5 | 109 | 0.00 | 5.19 |
| 12 | chloroethane | 0.315 | 0.337 | -7.0 | 112 | 0.00 | 5.36 |
| 13 | trichlorofluoromethane | 0.745 | 0.773 | -3.8 | 106 | 0.00 | 5.79 |
| 14 | ethyl ether | 0.237 | 0.234 | 1.3 | 106 | 0.00 | 6.19 |
| 15 | acrolein | 0.106 | 0.109 | -2.8 | 104 | 0.00 | 6.41 |
| 16 | freon 113 | 0.354 | 0.342 | 3.4 | 105 | 0.00 | 6.61 |
| 17 | 1,1-dichloroethene | 0.371 | 0.364 | 1.9 | 106 | 0.00 | 6.60 |
| 18 | acetone | 0.192 | 0.181 | 5.7 | 104 | 0.00 | 6.61 |
| 19 | acetonitrile | 0.079 | 0.068 | 13.9 | 92 | 0.00 | 7.02 |
| 20 | iodomethane | 0.724 | 0.703 | 2.9 | 105 | 0.00 | 6.85 |
| 21 | carbon disulfide | 1.229 | 1.255 | -2.1 | 110 | 0.00 | 6.98 |
| 22 | methylene chloride | 0.440 | 0.430 | 2.3 | 109 | 0.00 | 7.31 |
| 23 | methyl acetate | 0.479 | 0.510 | -6.5 | 112 | 0.00 | 7.06 |
| 24 | methyl tert butyl ether | 1.323 | 1.315 | 0.6 | 109 | 0.00 | 7.66 |
| 25 | trans-1,2-dichloroethene | 0.420 | 0.410 | 2.4 | 107 | 0.00 | 7.69 |
| 26 | hexane | 0.747 | 0.816 | -9.2 | 120 | 0.00 | 8.04 |
| 27 | di-isopropyl ether | 1.831 | 1.763 | 3.7 | 103 | 0.00 | 8.25 |
| 28 | ethyl tert-butyl ether | 1.594 | 1.501 | 5.8 | 100 | 0.00 | 8.71 |
| 29 | 2-butanone | 0.052 | 0.056 | -7.7 | 111 | 0.00 | 8.90 |
| 30 | 1,1-dichloroethane | 0.822 | 0.799 | 2.8 | 105 | 0.00 | 8.26 |
| 31 | chloroprene | 0.781 | 0.851 | -9.0 | 113 | 0.00 | 8.36 |
| 32 | acrylonitrile | 0.212 | 0.221 | -4.2 | 106 | 0.00 | 7.59 |
| 33 | vinyl acetate | 0.078 | 0.075 | 3.8 | 97 | 0.00 | 8.20 |
| 34 | ethyl acetate | 0.096 | 0.099 | -3.1 | 106 | 0.00 | 8.92 |
| 35 | 2,2-dichloropropane | 0.657 | 0.592 | 9.9 | 99 | 0.00 | 9.00 |
| 36 | cis-1,2-dichloroethene | 0.462 | 0.447 | 3.2 | 105 | 0.00 | 8.97 |
| 37 | propionitrile | 0.079 | 0.077 | 2.5 | 102 | 0.00 | 8.98 |
| 38 | bromochloromethane | 0.307 | 0.305 | 0.7 | 104 | 0.00 | 9.26 |
| 39 | tetrahydrofuran | 0.219 | 0.194 | 11.4 | 104 | 0.00 | 9.28 |
| 40 | chloroform | 0.854 | 0.798 | 6.6 | 105 | 0.00 | 9.35 |
| 41 | tert-butyl formate | 0.415 | 0.265 | 36.1# | 63 | 0.00 | 9.39 |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** V2A9511-ICV9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A218793.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 42 | | isobutyl alcohol | 0.033 | 0.031 | 6.1 | 94 | 0.00 | 9.75 |
| 43 | S | dibromofluoromethane (s) | 0.471 | 0.466 | 1.1 | 102 | 0.00 | 9.54 |
| 44 | | methacrylonitrile | 0.196 | 0.206 | -5.1 | 110 | 0.00 | 9.17 |
| 45 | | 1,1,1-trichloroethane | 0.742 | 0.738 | 0.5 | 106 | 0.00 | 9.60 |
| 46 | | cyclohexane | 0.620 | 0.638 | -2.9 | 107 | 0.00 | 9.72 |
| 47 | | 1,1-dichloropropene | 0.597 | 0.591 | 1.0 | 108 | 0.00 | 9.78 |
| 48 | | tert-amyl alcohol | 0.033 | 0.030 | 9.1 | 105 | 0.00 | 9.91 |
| 49 | | carbon tetrachloride | 0.669 | 0.674 | -0.7 | 107 | 0.00 | 9.80 |
| 50 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 10.44 |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.465 | 0.462 | 0.6 | 104 | 0.00 | 9.95 |
| 52 | | 2,2,4-trimethylpentane | 1.405 | 1.362 | 3.1 | 105 | 0.00 | 10.12 |
| 53 | | tert-amyl methyl ether | 1.030 | 0.929 | 9.8 | 98 | 0.00 | 10.11 |
| 54 | | n-butyl alcohol | 0.013 | 0.014 | -7.7 | 107 | 0.00 | 10.50 |
| 55 | | benzene | 1.186 | 1.184 | 0.2 | 106 | 0.00 | 10.02 |
| 56 | | heptane | 0.287 | 0.310 | -8.0 | 113 | 0.00 | 10.28 |
| 57 | | isopropyl acetate | 0.074 | 0.076 | -2.7 | 112 | 0.00 | 9.94 |
| 58 | | 1,2-dichloroethane | 0.557 | 0.532 | 4.5 | 106 | 0.00 | 10.04 |
| 59 | | trichloroethene | 0.339 | 0.337 | 0.6 | 106 | 0.00 | 10.74 |
| 60 | | ethyl acrylate | 0.539 | 0.551 | -2.2 | 104 | 0.00 | 10.74 |
| 61 | | 2-nitropropane | 0.142 | 0.149 | -4.9 | 107 | 0.00 | 11.50 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 62 | | 2-chloroethyl vinyl ether | 250.000 | 230.489 | 7.8 | 103 | 0.00 | 11.54 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 63 | | methyl methacrylate | 0.085 | 0.091 | -7.1 | 107 | 0.00 | 11.01 |
| 64 | | 1,2-dichloropropane | 0.352 | 0.346 | 1.7 | 105 | 0.00 | 11.03 |
| 65 | | methylcyclohexane | 0.555 | 0.566 | -2.0 | 110 | 0.00 | 11.04 |
| 66 | | dibromomethane | 0.231 | 0.223 | 3.5 | 107 | 0.00 | 11.14 |
| 67 | | bromodichloromethane | 0.478 | 0.477 | 0.2 | 106 | 0.00 | 11.30 |
| 68 | | epichlorohydrin | 0.042 | 0.042 | 0.0 | 100 | 0.00 | 11.62 |
| 69 | | cis-1,3-dichloropropene | 0.524 | 0.536 | -2.3 | 105 | 0.00 | 11.75 |
| 70 | | 4-methyl-2-pentanone | 0.166 | 0.167 | -0.6 | 105 | 0.00 | 11.86 |
| 71 | | 3-methyl-1-butanol | 0.010 | 0.011 | -10.0 | 108 | 0.00 | 11.87 |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 13.56 |
| 73 | S | toluene-d8 (s) | 1.225 | 1.239 | -1.1 | 104 | 0.00 | 12.06 |
| 74 | | toluene | 0.794 | 0.802 | -1.0 | 107 | 0.00 | 12.14 |
| 75 | | trans-1,3-dichloropropene | 0.527 | 0.544 | -3.2 | 104 | 0.00 | 12.32 |
| 76 | | ethyl methacrylate | 0.452 | 0.479 | -6.0 | 104 | 0.00 | 12.31 |
| 77 | | 1,1,2-trichloroethane | 0.273 | 0.277 | -1.5 | 105 | 0.00 | 12.54 |
| 78 | | 2-hexanone | 0.166 | 0.171 | -3.0 | 105 | 0.00 | 12.71 |
| 79 | | tetrachloroethene | 0.395 | 0.387 | 2.0 | 106 | 0.00 | 12.68 |
| 80 | | 1,3-dichloropropane | 0.524 | 0.510 | 2.7 | 104 | 0.00 | 12.72 |
| 81 | | butyl acetate | 0.285 | 0.313 | -9.8 | 111 | 0.00 | 12.79 |
| 82 | | dibromochloromethane | 0.399 | 0.417 | -4.5 | 106 | 0.00 | 12.96 |
| 83 | | 1,2-dibromoethane | 0.338 | 0.355 | -5.0 | 107 | 0.00 | 13.11 |
| 84 | | n-butyl ether | 1.574 | 1.571 | 0.2 | 103 | 0.00 | 13.56 |
| 85 | | chlorobenzene | 0.866 | 0.874 | -0.9 | 105 | 0.00 | 13.59 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.348 | 0.353 | -1.4 | 105 | 0.00 | 13.66 |
| 87 | | ethylbenzene | 1.489 | 1.480 | 0.6 | 105 | 0.00 | 13.66 |
| 88 | | m,p-xylene | 0.579 | 0.587 | -1.4 | 106 | 0.00 | 13.78 |
| 89 | | o-xylene | 1.216 | 1.216 | 0.0 | 105 | 0.00 | 14.18 |
| 90 | | styrene | 0.942 | 0.992 | -5.3 | 106 | 0.00 | 14.19 |
| 91 | | n-amyl acetate | 0.246 | 0.256 | -4.1 | 102 | 0.00 | 14.22 |
| 92 | | bromoform | 0.287 | 0.307 | -7.0 | 103 | 0.00 | 14.41 |
| 93 | | butyl acrylate | 0.838 | 0.930 | -11.0 | 107 | 0.00 | 14.01 |
| 94 | | isopropylbenzene | 1.450 | 1.466 | -1.1 | 104 | 0.00 | 14.53 |
| 95 | | cis-1,4-dichloro-2-butene | 0.156 | 0.168 | -7.7 | 99 | 0.00 | 14.56 |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** V2A9511-ICV9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A218793.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 15.89 |
| 97 | S | 4-bromofluorobenzene (s) | 0.925 | 0.927 | -0.2 | 103 | 0.00 | 14.72 |
| 98 | | bromobenzene | 0.800 | 0.771 | 3.6 | 104 | 0.00 | 14.90 |
| 99 | | 1,1,2,2-tetrachloroethane | 0.850 | 0.842 | 0.9 | 103 | 0.00 | 14.80 |
| 100 | | trans-1,4-dichloro-2-bute | 0.283 | 0.311 | -9.9 | 108 | 0.00 | 14.83 |
| 101 | | 1,2,3-trichloropropane | 0.219 | 0.221 | -0.9 | 106 | 0.00 | 14.89 |
| 102 | | n-propylbenzene | 3.209 | 3.206 | 0.1 | 105 | 0.00 | 14.94 |
| 103 | | 2-chlorotoluene | 0.699 | 0.700 | -0.1 | 105 | 0.00 | 15.07 |
| 104 | | 4-chlorotoluene | 2.041 | 2.030 | 0.5 | 105 | 0.00 | 15.18 |
| 105 | | 1,3,5-trimethylbenzene | 2.229 | 2.245 | -0.7 | 104 | 0.00 | 15.10 |
| 106 | | tert-butylbenzene | 1.931 | 1.931 | 0.0 | 104 | 0.00 | 15.44 |
| 107 | | 1,2,4-trimethylbenzene | 2.270 | 2.272 | -0.1 | 104 | 0.00 | 15.49 |
| 108 | | sec-butylbenzene | 2.879 | 2.922 | -1.5 | 105 | 0.00 | 15.66 |
| 109 | | 1,3-dichlorobenzene | 1.426 | 1.418 | 0.6 | 105 | 0.00 | 15.82 |
| 110 | | p-isopropyltoluene | 2.455 | 2.473 | -0.7 | 104 | 0.00 | 15.79 |
| 111 | | benzyl chloride | 1.398 | 1.374 | 1.7 | 94 | 0.00 | 16.01 |
| 112 | | 1,2,3-trimethylbenzene | | ----------NA---------- | | | | |
| 113 | | 1,4-dichlorobenzene | 1.483 | 1.429 | 3.6 | 103 | 0.00 | 15.91 |
| 114 | | 1,2-dichlorobenzene | 1.394 | 1.387 | 0.5 | 103 | 0.00 | 16.28 |
| 115 | | n-butylbenzene | 1.306 | 1.360 | -4.1 | 105 | 0.00 | 16.19 |
| 116 | | 1,2-dibromo-3-chloropropa | 0.184 | 0.194 | -5.4 | 101 | 0.00 | 17.05 |
| 117 | | 1,3,5-trichlorobenzene | 1.090 | 1.117 | -2.5 | 105 | 0.00 | 17.24 |
| 118 | | 1,2,4-trichlorobenzene | 0.937 | 0.998 | -6.5 | 104 | 0.00 | 17.88 |
| 119 | | hexachlorobutadiene | 0.482 | 0.507 | -5.2 | 107 | 0.00 | 18.00 |
| 120 | | naphthalene | 2.233 | 2.405 | -7.7 | 103 | 0.00 | 18.17 |
| 121 | | 1,2,3-trichlorobenzene | 0.882 | 0.930 | -5.4 | 103 | 0.00 | 18.40 |
| 122 | | hexachloroethane | 0.402 | 0.449 | -11.7 | 104 | 0.00 | 16.58 |
| 123 | | 2-methylnaphthalene | 1.138 | 1.249 | -9.8 | 101 | 0.00 | 19.41 |
| 124 | | pentafluorobenzene(a) | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 9.51 |
| 125 | | vinyl bromide | | ----------NA---------- | | | | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A218788.D M2A9511.M Mon Aug 01 15:19:15 2022 MS2A

# Initial Calibration Verification



**Job Number:** JD52507 **Sample:** V2A9511-ICV9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A218794.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\V2A9511\2A218794.D Vial: 15
Acq On : 31 Jul 2022 11:31 pm Operator: PrashanS
Sample : ICV9511-50 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
Last Update : Mon Aug 01 15:13:00 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 7.25 |
| 2 | ethanol | | ----------NA---------- | | | | |
| 3 | tertiary butyl alcohol | | ----------NA---------- | | | | |
| 4 | 1,4-dioxane | | ----------NA---------- | | | | |
| 5 I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 9.51 |
| 6 | chlorodifluoromethane | 0.682 | 0.809 | -18.6 | 126 | 0.00 | 3.99 |
| 7 | dichlorodifluoromethane | | ----------NA---------- | | | | |
| 8 | chloromethane | | ----------NA---------- | | | | |
| 9 | vinyl chloride | | ----------NA---------- | | | | |
| 10 | 1,3-butadiene | | ----------NA---------- | | | | |
| 11 | bromomethane | | ----------NA---------- | | | | |
| 12 | chloroethane | | ----------NA---------- | | | | |
| 13 | trichlorofluoromethane | | ----------NA---------- | | | | |
| 14 | ethyl ether | | ----------NA---------- | | | | |
| 15 | acrolein | | ----------NA---------- | | | | |
| 16 | freon 113 | | ----------NA---------- | | | | |
| 17 | 1,1-dichloroethene | | ----------NA---------- | | | | |
| 18 | acetone | | ----------NA---------- | | | | |
| 19 | acetonitrile | 0.079 | 0.072 | 8.9 | 96 | 0.00 | 7.02 |
| 20 | iodomethane | | ----------NA---------- | | | | |
| 21 | carbon disulfide | | ----------NA---------- | | | | |
| 22 | methylene chloride | | ----------NA---------- | | | | |
| 23 | methyl acetate | | ----------NA---------- | | | | |
| 24 | methyl tert butyl ether | | ----------NA---------- | | | | |
| 25 | trans-1,2-dichloroethene | | ----------NA---------- | | | | |
| 26 | hexane | | ----------NA---------- | | | | |
| 27 | di-isopropyl ether | | ----------NA---------- | | | | |
| 28 | ethyl tert-butyl ether | | ----------NA---------- | | | | |
| 29 | 2-butanone | | ----------NA---------- | | | | |
| 30 | 1,1-dichloroethane | | ----------NA---------- | | | | |
| 31 | chloroprene | | ----------NA---------- | | | | |
| 32 | acrylonitrile | 0.212 | 0.173 | 18.4 | 82 | 0.00 | 7.59 |
| 33 | vinyl acetate | | ----------NA---------- | | | | |
| 34 | ethyl acetate | | ----------NA---------- | | | | |
| 35 | 2,2-dichloropropane | | ----------NA---------- | | | | |
| 36 | cis-1,2-dichloroethene | | ----------NA---------- | | | | |
| 37 | propionitrile | | ----------NA---------- | | | | |
| 38 | bromochloromethane | | ----------NA---------- | | | | |
| 39 | tetrahydrofuran | | ----------NA---------- | | | | |
| 40 | chloroform | | ----------NA---------- | | | | |
| 41 | tert-butyl formate | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** V2A9511-ICV9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A218794.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 42 | | isobutyl alcohol | | ----------NA---------- | | | | | |
| 43 | S | dibromofluoromethane (s) | 0.471 | 0.471 | 0.0 | 102 | 0.00 | 9.54 | |
| 44 | | methacrylonitrile | | ----------NA---------- | | | | | |
| 45 | | 1,1,1-trichloroethane | | ----------NA---------- | | | | | |
| 46 | | cyclohexane | | ----------NA---------- | | | | | |
| 47 | | 1,1-dichloropropene | | ----------NA---------- | | | | | |
| 48 | | tert-amyl alcohol | | ----------NA---------- | | | | | |
| 49 | | carbon tetrachloride | | ----------NA---------- | | | | | |
| 50 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 10.44 | |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.465 | 0.471 | -1.3 | 105 | 0.00 | 9.95 | |
| 52 | | 2,2,4-trimethylpentane | | ----------NA---------- | | | | | |
| 53 | | tert-amyl methyl ether | | ----------NA---------- | | | | | |
| 54 | | n-butyl alcohol | | ----------NA---------- | | | | | |
| 55 | | benzene | | ----------NA---------- | | | | | |
| 56 | | heptane | | ----------NA---------- | | | | | |
| 57 | | isopropyl acetate | | ----------NA---------- | | | | | |
| 58 | | 1,2-dichloroethane | | ----------NA---------- | | | | | |
| 59 | | trichloroethene | | ----------NA---------- | | | | | |
| 60 | | ethyl acrylate | | ----------NA---------- | | | | | |
| 61 | | 2-nitropropane | | ----------NA---------- | | | | | |
| | | ---------- | True | Calc. | % Drift | ---------- | | | |
| 62 | | 2-chloroethyl vinyl ether | | ----------NA---------- | | | | | |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | | |
| 63 | | methyl methacrylate | | ----------NA---------- | | | | | |
| 64 | | 1,2-dichloropropane | | ----------NA---------- | | | | | |
| 65 | | methylcyclohexane | | ----------NA---------- | | | | | |
| 66 | | dibromomethane | | ----------NA---------- | | | | | |
| 67 | | bromodichloromethane | | ----------NA---------- | | | | | |
| 68 | | epichlorohydrin | | ----------NA---------- | | | | | |
| 69 | | cis-1,3-dichloropropene | | ----------NA---------- | | | | | |
| 70 | | 4-methyl-2-pentanone | | ----------NA---------- | | | | | |
| 71 | | 3-methyl-1-butanol | | ----------NA---------- | | | | | |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 13.56 | |
| 73 | S | toluene-d8 (s) | 1.225 | 1.230 | -0.4 | 102 | 0.00 | 12.06 | |
| 74 | | toluene | | ----------NA---------- | | | | | |
| 75 | | trans-1,3-dichloropropene | | ----------NA---------- | | | | | |
| 76 | | ethyl methacrylate | | ----------NA---------- | | | | | |
| 77 | | 1,1,2-trichloroethane | | ----------NA---------- | | | | | |
| 78 | | 2-hexanone | | ----------NA---------- | | | | | |
| 79 | | tetrachloroethene | 0.395 | 0.356 | 9.9 | 96 | 0.00 | 12.68 | |
| 80 | | 1,3-dichloropropane | | ----------NA---------- | | | | | |
| 81 | | butyl acetate | | ----------NA---------- | | | | | |
| 82 | | dibromochloromethane | | ----------NA---------- | | | | | |
| 83 | | 1,2-dibromoethane | | ----------NA---------- | | | | | |
| 84 | | n-butyl ether | | ----------NA---------- | | | | | |
| 85 | | chlorobenzene | | ----------NA---------- | | | | | |
| 86 | | 1,1,1,2-tetrachloroethane | | ----------NA---------- | | | | | |
| 87 | | ethylbenzene | | ----------NA---------- | | | | | |
| 88 | | m,p-xylene | | ----------NA---------- | | | | | |
| 89 | | o-xylene | | ----------NA---------- | | | | | |
| 90 | | styrene | | ----------NA---------- | | | | | |
| 91 | | n-amyl acetate | | ----------NA---------- | | | | | |
| 92 | | bromoform | | ----------NA---------- | | | | | |
| 93 | | butyl acrylate | | ----------NA---------- | | | | | |
| 94 | | isopropylbenzene | | ----------NA---------- | | | | | |
| 95 | | cis-1,4-dichloro-2-butene | | ----------NA---------- | | | | | |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** V2A9511-ICV9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A218794.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 100 | 0.00 | 15.89 |
| 97 | S | 4-bromofluorobenzene (s) | 0.925 | 0.936 | -1.2 | 102 | 0.00 | 14.72 |
| 98 | | bromobenzene | ----------NA---------- | | | | | |
| 99 | | 1,1,2,2-tetrachloroethane | ----------NA---------- | | | | | |
| 100 | | trans-1,4-dichloro-2-bute | ----------NA---------- | | | | | |
| 101 | | 1,2,3-trichloropropane | ----------NA---------- | | | | | |
| 102 | | n-propylbenzene | ----------NA---------- | | | | | |
| 103 | | 2-chlorotoluene | ----------NA---------- | | | | | |
| 104 | | 4-chlorotoluene | ----------NA---------- | | | | | |
| 105 | | 1,3,5-trimethylbenzene | ----------NA---------- | | | | | |
| 106 | | tert-butylbenzene | ----------NA---------- | | | | | |
| 107 | | 1,2,4-trimethylbenzene | ----------NA---------- | | | | | |
| 108 | | sec-butylbenzene | ----------NA---------- | | | | | |
| 109 | | 1,3-dichlorobenzene | ----------NA---------- | | | | | |
| 110 | | p-isopropyltoluene | ----------NA---------- | | | | | |
| 111 | | benzyl chloride | ----------NA---------- | | | | | |
| 112 | | 1,2,3-trimethylbenzene | 2.341 | 2.446 | -4.5 | 108 | 0.00 | 15.91 |
| 113 | | 1,4-dichlorobenzene | ----------NA---------- | | | | | |
| 114 | | 1,2-dichlorobenzene | ----------NA---------- | | | | | |
| 115 | | n-butylbenzene | ----------NA---------- | | | | | |
| 116 | | 1,2-dibromo-3-chloropropa | ----------NA---------- | | | | | |
| 117 | | 1,3,5-trichlorobenzene | ----------NA---------- | | | | | |
| 118 | | 1,2,4-trichlorobenzene | ----------NA---------- | | | | | |
| 119 | | hexachlorobutadiene | ----------NA---------- | | | | | |
| 120 | | naphthalene | ----------NA---------- | | | | | |
| 121 | | 1,2,3-trichlorobenzene | ----------NA---------- | | | | | |
| 122 | | hexachloroethane | ----------NA---------- | | | | | |
| 123 | | 2-methylnaphthalene | ----------NA---------- | | | | | |
| 124 | | pentafluorobenzene(a) | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 9.51 |
| 125 | | vinyl bromide | ----------NA---------- | | | | | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A218788.D M2A9511.M Tue Aug 02 08:48:28 2022 MS2A

# Continuing Calibration Summary



**Job Number:** JD52507 **Sample:** V2A9581-CC9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220390.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\kr...22\v2a9581\2a220390.d Vial: 2
Acq On : 29 Sep 2022 9:13 am Operator: nicoleh
Sample : cc9511-20 Inst : GCMS2A
Misc : MS62546,V2A9581,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
Last Update : Mon Sep 13 11:48:20 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 88 | 0.00 | 7.24 |
| 2 | ethanol | 0.122 | 0.081 | 33.6# | 61 | -0.01 | 5.97 |
| 3 | tertiary butyl alcohol | 1.228 | 1.239 | -0.9 | 94 | 0.00 | 7.36 |
| 4 | 1,4-dioxane | 0.086 | 0.058 | 32.6# | 60 | 0.00 | 11.08 |
| 5 I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 95 | 0.00 | 9.51 |
| 6 | chlorodifluoromethane | 0.682 | 0.751 | -10.1 | 109 | -0.01 | 3.98 |
| 7 | dichlorodifluoromethane | 0.672 | 0.658 | 2.1 | 93 | 0.00 | 3.96 |
| 8 | chloromethane | 0.869 | 0.810 | 6.8 | 95 | 0.00 | 4.35 |
| 9 | vinyl chloride | 0.665 | 0.644 | 3.2 | 95 | 0.00 | 4.57 |
| 10 | 1,3-butadiene | 0.592 | 0.594 | -0.3 | 99 | 0.00 | 4.61 |
| 11 | bromomethane | 0.392 | 0.417 | -6.4 | 110 | 0.00 | 5.19 |
| 12 | chloroethane | 0.315 | 0.370 | -17.5 | 115 | 0.00 | 5.35 |
| 13 | trichlorofluoromethane | 0.745 | 0.743 | 0.3 | 95 | 0.00 | 5.78 |
| 14 | ethyl ether | 0.237 | 0.266 | -12.2 | 110 | 0.00 | 6.19 |
| 15 | acrolein | 0.106 | 0.088 | 17.0 | 85 | 0.00 | 6.42 |
| 16 | freon 113 | 0.354 | 0.378 | -6.8 | 109 | 0.00 | 6.61 |
| 17 | 1,1-dichloroethene | 0.371 | 0.397 | -7.0 | 107 | 0.00 | 6.60 |
| 18 | acetone | 0.192 | 0.246 | -28.1# | 130 | 0.00 | 6.61 |
| 19 | acetonitrile | 0.079 | 0.073 | 7.6 | 92 | 0.00 | 7.02 |
| 20 | iodomethane | 0.724 | 0.765 | -5.7 | 105 | 0.00 | 6.85 |
| 21 | carbon disulfide | 1.229 | 1.463 | -19.0 | 119 | 0.00 | 6.98 |
| 22 | methylene chloride | 0.440 | 0.463 | -5.2 | 110 | 0.00 | 7.30 |
| 23 | methyl acetate | 0.479 | 0.493 | -2.9 | 100 | 0.00 | 7.06 |
| 24 | methyl tert butyl ether | 1.323 | 1.415 | -7.0 | 108 | 0.00 | 7.65 |
| 25 | trans-1,2-dichloroethene | 0.420 | 0.451 | -7.4 | 110 | 0.00 | 7.69 |
| 26 | hexane | 0.747 | 0.882 | -18.1 | 117 | 0.00 | 8.04 |
| 27 | di-isopropyl ether | 1.831 | 2.111 | -15.3 | 112 | 0.00 | 8.25 |
| 28 | ethyl tert-butyl ether | 1.594 | 1.832 | -14.9 | 113 | 0.00 | 8.71 |
| 29 | 2-butanone | 0.052 | 0.063 | -21.2# | 119 | 0.00 | 8.90 |
| 30 | 1,1-dichloroethane | 0.822 | 0.902 | -9.7 | 110 | 0.00 | 8.26 |
| 31 | chloroprene | 0.781 | 0.836 | -7.0 | 103 | 0.00 | 8.36 |
| 32 | acrylonitrile | 0.212 | 0.203 | 4.2 | 92 | 0.00 | 7.59 |
| 33 | vinyl acetate | 0.078 | 0.094 | -20.5# | 119 | 0.00 | 8.19 |
| 34 | ethyl acetate | 0.096 | 0.104 | -8.3 | 107 | 0.00 | 8.92 |
| 35 | 2,2-dichloropropane | 0.657 | 0.738 | -12.3 | 118 | 0.00 | 9.00 |
| 36 | cis-1,2-dichloroethene | 0.462 | 0.507 | -9.7 | 112 | 0.00 | 8.97 |
| 37 | propionitrile | 0.079 | 0.086 | -8.9 | 106 | 0.00 | 8.98 |
| 38 | bromochloromethane | 0.307 | 0.323 | -5.2 | 104 | 0.00 | 9.26 |
| 39 | tetrahydrofuran | 0.219 | 0.198 | 9.6 | 96 | 0.00 | 9.28 |
| 40 | chloroform | 0.854 | 0.878 | -2.8 | 108 | 0.00 | 9.35 |
| 41 | tert-butyl formate | 0.415 | 0.490 | -18.1 | 112 | 0.00 | 9.38 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** V2A9581-CC9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220390.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 42 | | isobutyl alcohol | 0.033 | 0.030 | 9.1 | 93 | 0.00 | 9.75 |
| 43 | S | dibromofluoromethane (s) | 0.471 | 0.492 | -4.5 | 99 | 0.00 | 9.54 |
| 44 | | methacrylonitrile | 0.196 | 0.216 | -10.2 | 108 | 0.00 | 9.18 |
| 45 | | 1,1,1-trichloroethane | 0.742 | 0.767 | -3.4 | 102 | 0.00 | 9.60 |
| 46 | | cyclohexane | 0.620 | 0.716 | -15.5 | 113 | 0.00 | 9.72 |
| 47 | | 1,1-dichloropropene | 0.597 | 0.649 | -8.7 | 110 | 0.00 | 9.77 |
| 48 | | tert-amyl alcohol | 0.033 | 0.030 | 9.1 | 91 | 0.00 | 9.91 |
| 49 | | carbon tetrachloride | 0.669 | 0.668 | 0.1 | 100 | 0.00 | 9.80 |
| 50 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 107 | 0.00 | 10.43 |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.465 | 0.394 | 15.3 | 91 | 0.00 | 9.96 |
| 52 | | 2,2,4-trimethylpentane | 1.405 | 1.399 | 0.4 | 108 | 0.00 | 10.12 |
| 53 | | tert-amyl methyl ether | 1.030 | 1.035 | -0.5 | 112 | 0.00 | 10.10 |
| 54 | | n-butyl alcohol | 0.013 | 0.011 | 15.4 | 88 | 0.00 | 10.50 |
| 55 | | benzene | 1.186 | 1.246 | -5.1 | 114 | 0.00 | 10.02 |
| 56 | | heptane | 0.287 | 0.264 | 8.0 | 100 | 0.00 | 10.28 |
| 57 | | isopropyl acetate | 0.074 | 0.072 | 2.7 | 108 | 0.00 | 9.94 |
| 58 | | 1,2-dichloroethane | 0.557 | 0.520 | 6.6 | 107 | 0.00 | 10.05 |
| 59 | | trichloroethene | 0.339 | 0.334 | 1.5 | 111 | 0.00 | 10.75 |
| 60 | | ethyl acrylate | 0.539 | 0.552 | -2.4 | 109 | 0.00 | 10.74 |
| 61 | | 2-nitropropane | 0.142 | 0.112 | 21.1# | 88 | 0.00 | 11.50 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 62 | | 2-chloroethyl vinyl ether | 100.000 | 20.393 | 79.6# | 17 | 0.00 | 11.54 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 63 | | methyl methacrylate | 0.085 | 0.088 | -3.5 | 113 | 0.00 | 11.00 |
| 64 | | 1,2-dichloropropane | 0.352 | 0.362 | -2.8 | 116 | 0.00 | 11.03 |
| 65 | | methylcyclohexane | 0.555 | 0.539 | 2.9 | 107 | 0.00 | 11.04 |
| 66 | | dibromomethane | 0.231 | 0.212 | 8.2 | 104 | 0.00 | 11.14 |
| 67 | | bromodichloromethane | 0.478 | 0.461 | 3.6 | 108 | 0.00 | 11.30 |
| 68 | | epichlorohydrin | 0.042 | 0.035 | 16.7 | 90 | 0.00 | 11.62 |
| 69 | | cis-1,3-dichloropropene | 0.524 | 0.544 | -3.8 | 111 | 0.00 | 11.75 |
| 70 | | 4-methyl-2-pentanone | 0.166 | 0.161 | 3.0 | 106 | 0.00 | 11.86 |
| 71 | | 3-methyl-1-butanol | 0.010 | 0.009 | 10.0 | 87 | 0.00 | 11.87 |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 13.56 |
| 73 | S | toluene-d8 (s) | 1.225 | 1.224 | 0.1 | 103 | 0.00 | 12.06 |
| 74 | | toluene | 0.794 | 0.800 | -0.8 | 108 | 0.00 | 12.13 |
| 75 | | trans-1,3-dichloropropene | 0.527 | 0.516 | 2.1 | 103 | 0.00 | 12.32 |
| 76 | | ethyl methacrylate | 0.452 | 0.492 | -8.8 | 108 | 0.00 | 12.32 |
| 77 | | 1,1,2-trichloroethane | 0.273 | 0.275 | -0.7 | 106 | 0.00 | 12.54 |
| 78 | | 2-hexanone | 0.166 | 0.168 | -1.2 | 105 | 0.00 | 12.71 |
| 79 | | tetrachloroethene | 0.395 | 0.389 | 1.5 | 109 | 0.00 | 12.69 |
| 80 | | 1,3-dichloropropane | 0.524 | 0.512 | 2.3 | 109 | 0.00 | 12.72 |
| 81 | | butyl acetate | 0.285 | 0.291 | -2.1 | 104 | 0.00 | 12.79 |
| 82 | | dibromochloromethane | 0.399 | 0.375 | 6.0 | 99 | 0.00 | 12.96 |
| 83 | | 1,2-dibromoethane | 0.338 | 0.323 | 4.4 | 101 | 0.00 | 13.11 |
| 84 | | n-butyl ether | 1.574 | 1.544 | 1.9 | 101 | 0.00 | 13.56 |
| 85 | | chlorobenzene | 0.866 | 0.883 | -2.0 | 105 | 0.00 | 13.59 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.348 | 0.333 | 4.3 | 102 | 0.00 | 13.66 |
| 87 | | ethylbenzene | 1.489 | 1.487 | 0.1 | 105 | 0.00 | 13.66 |
| 88 | | m,p-xylene | 0.579 | 0.542 | 6.4 | 99 | 0.00 | 13.78 |
| 89 | | o-xylene | 1.216 | 1.179 | 3.0 | 103 | 0.00 | 14.18 |
| 90 | | styrene | 0.942 | 0.873 | 7.3 | 95 | 0.00 | 14.19 |
| 91 | | n-amyl acetate | 0.246 | 0.228 | 7.3 | 95 | 0.00 | 14.22 |
| 92 | | bromoform | 0.287 | 0.257 | 10.5 | 94 | 0.00 | 14.41 |
| 93 | | butyl acrylate | 0.838 | 0.847 | -1.1 | 99 | 0.00 | 14.01 |
| 94 | | isopropylbenzene | 1.450 | 1.366 | 5.8 | 96 | 0.00 | 14.52 |
| 95 | | cis-1,4-dichloro-2-butene | 0.156 | 0.058 | 62.8# | 37# | 0.00 | 14.56 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** V2A9581-CC9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220390.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 93 | 0.00 | 15.89 |
| 97 | S | 4-bromofluorobenzene (s) | 0.925 | 1.018 | -10.1 | 103 | 0.00 | 14.72 |
| 98 | | bromobenzene | 0.800 | 0.765 | 4.4 | 95 | 0.00 | 14.90 |
| 99 | | 1,1,2,2-tetrachloroethane | 0.850 | 0.816 | 4.0 | 91 | 0.00 | 14.80 |
| 100 | | trans-1,4-dichloro-2-bute | 0.283 | 0.109 | 61.5# | 36# | 0.00 | 14.83 |
| 101 | | 1,2,3-trichloropropane | 0.219 | 0.198 | 9.6 | 86 | 0.00 | 14.88 |
| 102 | | n-propylbenzene | 3.209 | 3.413 | -6.4 | 98 | 0.00 | 14.94 |
| 103 | | 2-chlorotoluene | 0.699 | 0.691 | 1.1 | 96 | 0.00 | 15.07 |
| 104 | | 4-chlorotoluene | 2.041 | 2.111 | -3.4 | 97 | 0.00 | 15.18 |
| 105 | | 1,3,5-trimethylbenzene | 2.229 | 2.259 | -1.3 | 95 | 0.00 | 15.09 |
| 106 | | tert-butylbenzene | 1.931 | 1.920 | 0.6 | 95 | 0.00 | 15.43 |
| 107 | | 1,2,4-trimethylbenzene | 2.270 | 2.296 | -1.1 | 94 | 0.00 | 15.49 |
| 108 | | sec-butylbenzene | 2.879 | 2.847 | 1.1 | 92 | 0.00 | 15.65 |
| 109 | | 1,3-dichlorobenzene | 1.426 | 1.376 | 3.5 | 92 | 0.00 | 15.82 |
| 110 | | p-isopropyltoluene | 2.455 | 2.411 | 1.8 | 92 | 0.00 | 15.79 |
| 111 | | benzyl chloride | 1.398 | 1.239 | 11.4 | 81 | 0.00 | 16.01 |
| 112 | | 1,2,3-trimethylbenzene | 2.341 | 2.319 | 0.9 | 94 | 0.00 | 15.91 |
| 113 | | 1,4-dichlorobenzene | 1.483 | 1.378 | 7.1 | 92 | 0.00 | 15.91 |
| 114 | | 1,2-dichlorobenzene | 1.394 | 1.333 | 4.4 | 90 | 0.00 | 16.28 |
| 115 | | n-butylbenzene | 1.306 | 1.256 | 3.8 | 89 | 0.00 | 16.20 |
| 116 | | 1,2-dibromo-3-chloropropa | 0.184 | 0.150 | 18.5 | 75 | 0.00 | 17.05 |
| 117 | | 1,3,5-trichlorobenzene | 1.090 | 1.060 | 2.8 | 93 | 0.00 | 17.24 |
| 118 | | 1,2,4-trichlorobenzene | 0.937 | 0.867 | 7.5 | 84 | 0.00 | 17.88 |
| 119 | | hexachlorobutadiene | 0.482 | 0.460 | 4.6 | 89 | 0.00 | 18.00 |
| 120 | | naphthalene | 2.233 | 1.608 | 28.0# | 64 | 0.00 | 18.17 |
| 121 | | 1,2,3-trichlorobenzene | 0.882 | 0.726 | 17.7 | 75 | 0.00 | 18.40 |
| 122 | | hexachloroethane | 0.402 | 0.325 | 19.2 | 73 | 0.00 | 16.57 |
| 123 | | 2-methylnaphthalene | 1.138 | 0.324 | 71.5# | 27# | 0.00 | 19.40 |
| 124 | | pentafluorobenzene(a) | 1.000 | 1.000 | 0.0 | 95 | 0.00 | 9.51 |
| 125 | | vinyl bromide | ----------NA---------- | | | | | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A218787.D M2A9511.M Sun Oct 02 23:48:41 2022

# Continuing Calibration Summary



**Job Number:** JD52507 **Sample:** V2A9583-CC9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220438.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\lo...-5\v2a9583\2a220438.d Vial: 2
Acq On : 30 Sep 2022 9:16 am Operator: nicoleh
Sample : cc9511-20 Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
Last Update : Mon Sep 13 11:48:20 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 116 | 0.00 | 7.25 |
| 2 | ethanol | 0.122 | 0.087 | 28.7# | 86 | 0.00 | 5.97 |
| 3 | tertiary butyl alcohol | 1.228 | 1.169 | 4.8 | 116 | 0.00 | 7.37 |
| 4 | 1,4-dioxane | 0.086 | 0.074 | 14.0 | 101 | 0.00 | 11.08 |
| 5 I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 9.51 |
| 6 | chlorodifluoromethane | 0.682 | 0.391 | 42.7# | 61 | 0.00 | 4.00 |
| 7 | dichlorodifluoromethane | 0.672 | 0.672 | 0.0 | 102 | 0.00 | 3.96 |
| 8 | chloromethane | 0.869 | 0.844 | 2.9 | 106 | 0.00 | 4.35 |
| 9 | vinyl chloride | 0.665 | 0.694 | -4.4 | 110 | 0.00 | 4.58 |
| 10 | 1,3-butadiene | 0.592 | 0.318 | 46.3# | 57 | 0.00 | 4.62 |
| 11 | bromomethane | 0.392 | 0.467 | -19.1 | 131 | 0.00 | 5.20 |
| 12 | chloroethane | 0.315 | 0.402 | -27.6# | 134 | 0.00 | 5.36 |
| 13 | trichlorofluoromethane | 0.745 | 0.848 | -13.8 | 116 | 0.00 | 5.79 |
| 14 | ethyl ether | 0.237 | 0.261 | -10.1 | 115 | 0.00 | 6.19 |
| 15 | acrolein | 0.106 | 0.121 | -14.2 | 125 | 0.00 | 6.42 |
| 16 | freon 113 | 0.354 | 0.373 | -5.4 | 115 | 0.00 | 6.62 |
| 17 | 1,1-dichloroethene | 0.371 | 0.366 | 1.3 | 106 | 0.00 | 6.61 |
| 18 | acetone | 0.192 | 0.189 | 1.6 | 107 | 0.00 | 6.61 |
| 19 | acetonitrile | 0.079 | 0.083 | -5.1 | 111 | 0.01 | 7.03 |
| 20 | iodomethane | 0.724 | 0.740 | -2.2 | 109 | 0.00 | 6.85 |
| 21 | carbon disulfide | 1.229 | 1.233 | -0.3 | 107 | 0.00 | 6.99 |
| 22 | methylene chloride | 0.440 | 0.482 | -9.5 | 122 | 0.00 | 7.30 |
| 23 | methyl acetate | 0.479 | 0.497 | -3.8 | 108 | 0.00 | 7.06 |
| 24 | methyl tert butyl ether | 1.323 | 1.454 | -9.9 | 118 | 0.00 | 7.66 |
| 25 | trans-1,2-dichloroethene | 0.420 | 0.451 | -7.4 | 117 | 0.00 | 7.69 |
| 26 | hexane | 0.747 | 0.807 | -8.0 | 114 | 0.00 | 8.04 |
| 27 | di-isopropyl ether | 1.831 | 2.143 | -17.0 | 122 | 0.00 | 8.25 |
| 28 | ethyl tert-butyl ether | 1.594 | 1.884 | -18.2 | 125 | 0.00 | 8.71 |
| 29 | 2-butanone | 0.052 | 0.061 | -17.3 | 122 | 0.00 | 8.91 |
| 30 | 1,1-dichloroethane | 0.822 | 0.913 | -11.1 | 119 | 0.00 | 8.26 |
| 31 | chloroprene | 0.781 | 0.806 | -3.2 | 106 | 0.00 | 8.36 |
| 32 | acrylonitrile | 0.212 | 0.232 | -9.4 | 112 | 0.00 | 7.60 |
| 33 | vinyl acetate | 0.078 | 0.102 | -30.8# | 138 | 0.00 | 8.20 |
| 34 | ethyl acetate | 0.096 | 0.109 | -13.5 | 120 | 0.00 | 8.92 |
| 35 | 2,2-dichloropropane | 0.657 | 0.756 | -15.1 | 129 | 0.00 | 9.00 |
| 36 | cis-1,2-dichloroethene | 0.462 | 0.534 | -15.6 | 126 | 0.00 | 8.97 |
| 37 | propionitrile | 0.079 | 0.093 | -17.7 | 122 | 0.00 | 8.98 |
| 38 | bromochloromethane | 0.307 | 0.350 | -14.0 | 120 | 0.00 | 9.26 |
| 39 | tetrahydrofuran | 0.219 | 0.211 | 3.7 | 109 | 0.00 | 9.29 |
| 40 | chloroform | 0.854 | 0.906 | -6.1 | 118 | 0.00 | 9.35 |
| 41 | tert-butyl formate | 0.415 | 0.463 | -11.6 | 113 | 0.00 | 9.39 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** V2A9583-CC9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220438.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 42 | | isobutyl alcohol | 0.033 | 0.033 | 0.0 | 109 | 0.00 | 9.75 |
| 43 | S | dibromofluoromethane (s) | 0.471 | 0.517 | -9.8 | 112 | 0.00 | 9.54 |
| 44 | | methacrylonitrile | 0.196 | 0.231 | -17.9 | 124 | 0.00 | 9.18 |
| 45 | | 1,1,1-trichloroethane | 0.742 | 0.783 | -5.5 | 111 | 0.00 | 9.61 |
| 46 | | cyclohexane | 0.620 | 0.795 | -28.2# | 134 | 0.00 | 9.72 |
| 47 | | 1,1-dichloropropene | 0.597 | 0.656 | -9.9 | 118 | 0.00 | 9.78 |
| 48 | | tert-amyl alcohol | 0.033 | 0.034 | -3.0 | 111 | 0.00 | 9.91 |
| 49 | | carbon tetrachloride | 0.669 | 0.697 | -4.2 | 112 | 0.00 | 9.80 |
| 50 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 117 | 0.00 | 10.44 |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.465 | 0.381 | 18.1 | 96 | 0.00 | 9.96 |
| 52 | | 2,2,4-trimethylpentane | 1.405 | 1.342 | 4.5 | 113 | 0.00 | 10.12 |
| 53 | | tert-amyl methyl ether | 1.030 | 1.056 | -2.5 | 126 | 0.00 | 10.11 |
| 54 | | n-butyl alcohol | 0.013 | 0.013 | 0.0 | 114 | 0.00 | 10.50 |
| 55 | | benzene | 1.186 | 1.239 | -4.5 | 125 | 0.00 | 10.02 |
| 56 | | heptane | 0.287 | 0.247 | 13.9 | 103 | 0.00 | 10.28 |
| 57 | | isopropyl acetate | 0.074 | 0.075 | -1.4 | 124 | 0.00 | 9.95 |
| 58 | | 1,2-dichloroethane | 0.557 | 0.531 | 4.7 | 119 | 0.00 | 10.05 |
| 59 | | trichloroethene | 0.339 | 0.337 | 0.6 | 123 | 0.00 | 10.75 |
| 60 | | ethyl acrylate | 0.539 | 0.556 | -3.2 | 120 | 0.00 | 10.74 |
| 61 | | 2-nitropropane | 0.142 | 0.108 | 23.9# | 93 | 0.00 | 11.50 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 62 | | 2-chloroethyl vinyl ether | 100.000 | 36.849 | 63.2# | 43 | 0.00 | 11.54 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 63 | | methyl methacrylate | 0.085 | 0.090 | -5.9 | 126 | 0.00 | 11.01 |
| 64 | | 1,2-dichloropropane | 0.352 | 0.372 | -5.7 | 131 | 0.00 | 11.04 |
| 65 | | methylcyclohexane | 0.555 | 0.521 | 6.1 | 113 | 0.00 | 11.05 |
| 66 | | dibromomethane | 0.231 | 0.227 | 1.7 | 122 | 0.00 | 11.14 |
| 67 | | bromodichloromethane | 0.478 | 0.469 | 1.9 | 121 | 0.00 | 11.30 |
| 68 | | epichlorohydrin | 0.042 | 0.040 | 4.8 | 113 | 0.00 | 11.62 |
| 69 | | cis-1,3-dichloropropene | 0.524 | 0.562 | -7.3 | 126 | 0.00 | 11.75 |
| 70 | | 4-methyl-2-pentanone | 0.166 | 0.166 | 0.0 | 120 | 0.00 | 11.86 |
| 71 | | 3-methyl-1-butanol | 0.010 | 0.010 | 0.0 | 111 | 0.01 | 11.88 |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 124 | 0.00 | 13.56 |
| 73 | S | toluene-d8 (s) | 1.225 | 1.145 | 6.5 | 115 | 0.00 | 12.06 |
| 74 | | toluene | 0.794 | 0.762 | 4.0 | 123 | 0.00 | 12.14 |
| 75 | | trans-1,3-dichloropropene | 0.527 | 0.507 | 3.8 | 121 | 0.00 | 12.32 |
| 76 | | ethyl methacrylate | 0.452 | 0.458 | -1.3 | 120 | 0.00 | 12.32 |
| 77 | | 1,1,2-trichloroethane | 0.273 | 0.264 | 3.3 | 121 | 0.00 | 12.54 |
| 78 | | 2-hexanone | 0.166 | 0.153 | 7.8 | 114 | 0.00 | 12.71 |
| 79 | | tetrachloroethene | 0.395 | 0.373 | 5.6 | 125 | 0.00 | 12.69 |
| 80 | | 1,3-dichloropropane | 0.524 | 0.490 | 6.5 | 124 | 0.00 | 12.72 |
| 81 | | butyl acetate | 0.285 | 0.271 | 4.9 | 116 | 0.00 | 12.79 |
| 82 | | dibromochloromethane | 0.399 | 0.368 | 7.8 | 116 | 0.00 | 12.96 |
| 83 | | 1,2-dibromoethane | 0.338 | 0.315 | 6.8 | 118 | 0.00 | 13.11 |
| 84 | | n-butyl ether | 1.574 | 1.422 | 9.7 | 111 | 0.00 | 13.56 |
| 85 | | chlorobenzene | 0.866 | 0.835 | 3.6 | 119 | 0.00 | 13.60 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.348 | 0.322 | 7.5 | 118 | 0.00 | 13.66 |
| 87 | | ethylbenzene | 1.489 | 1.382 | 7.2 | 117 | 0.00 | 13.66 |
| 88 | | m,p-xylene | 0.579 | 0.515 | 11.1 | 112 | 0.00 | 13.78 |
| 89 | | o-xylene | 1.216 | 1.132 | 6.9 | 118 | 0.00 | 14.18 |
| 90 | | styrene | 0.942 | 0.846 | 10.2 | 110 | 0.00 | 14.19 |
| 91 | | n-amyl acetate | 0.246 | 0.214 | 13.0 | 107 | 0.00 | 14.22 |
| 92 | | bromoform | 0.287 | 0.262 | 8.7 | 114 | 0.00 | 14.41 |
| 93 | | butyl acrylate | 0.838 | 0.768 | 8.4 | 107 | 0.00 | 14.01 |
| 94 | | isopropylbenzene | 1.450 | 1.278 | 11.9 | 108 | 0.00 | 14.53 |
| 95 | | cis-1,4-dichloro-2-butene | 0.156 | 0.098 | 37.2# | 75 | 0.00 | 14.57 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** V2A9583-CC9511
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220438.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 115 | 0.00 | 15.89 |
| 97 | S | 4-bromofluorobenzene (s) | 0.925 | 0.988 | -6.8 | 123 | 0.00 | 14.72 |
| 98 | | bromobenzene | 0.800 | 0.740 | 7.5 | 114 | 0.00 | 14.91 |
| 99 | | 1,1,2,2-tetrachloroethane | 0.850 | 0.778 | 8.5 | 107 | 0.00 | 14.81 |
| 100 | | trans-1,4-dichloro-2-bute | 0.283 | 0.177 | 37.5# | 72 | 0.00 | 14.84 |
| 101 | | 1,2,3-trichloropropane | 0.219 | 0.190 | 13.2 | 103 | 0.00 | 14.89 |
| 102 | | n-propylbenzene | 3.209 | 3.078 | 4.1 | 110 | 0.00 | 14.94 |
| 103 | | 2-chlorotoluene | 0.699 | 0.644 | 7.9 | 111 | 0.00 | 15.07 |
| 104 | | 4-chlorotoluene | 2.041 | 1.934 | 5.2 | 110 | 0.00 | 15.18 |
| 105 | | 1,3,5-trimethylbenzene | 2.229 | 2.075 | 6.9 | 108 | 0.00 | 15.10 |
| 106 | | tert-butylbenzene | 1.931 | 1.762 | 8.8 | 108 | 0.00 | 15.44 |
| 107 | | 1,2,4-trimethylbenzene | 2.270 | 2.089 | 8.0 | 106 | 0.00 | 15.49 |
| 108 | | sec-butylbenzene | 2.879 | 2.577 | 10.5 | 103 | 0.00 | 15.66 |
| 109 | | 1,3-dichlorobenzene | 1.426 | 1.315 | 7.8 | 109 | 0.00 | 15.82 |
| 110 | | p-isopropyltoluene | 2.455 | 2.206 | 10.1 | 104 | 0.00 | 15.79 |
| 111 | | benzyl chloride | 1.398 | 1.217 | 12.9 | 98 | 0.00 | 16.01 |
| 112 | | 1,2,3-trimethylbenzene | 2.341 | 2.145 | 8.4 | 107 | 0.00 | 15.91 |
| 113 | | 1,4-dichlorobenzene | 1.483 | 1.297 | 12.5 | 107 | 0.00 | 15.91 |
| 114 | | 1,2-dichlorobenzene | 1.394 | 1.270 | 8.9 | 106 | 0.00 | 16.28 |
| 115 | | n-butylbenzene | 1.306 | 1.101 | 15.7 | 96 | 0.00 | 16.20 |
| 116 | | 1,2-dibromo-3-chloropropa | 0.184 | 0.148 | 19.6 | 91 | 0.00 | 17.05 |
| 117 | | 1,3,5-trichlorobenzene | 1.090 | 0.983 | 9.8 | 106 | 0.00 | 17.24 |
| 118 | | 1,2,4-trichlorobenzene | 0.937 | 0.803 | 14.3 | 96 | 0.00 | 17.88 |
| 119 | | hexachlorobutadiene | 0.482 | 0.426 | 11.6 | 102 | 0.00 | 18.00 |
| 120 | | naphthalene | 2.233 | 1.473 | 34.0# | 72 | 0.00 | 18.17 |
| 121 | | 1,2,3-trichlorobenzene | 0.882 | 0.676 | 23.4# | 86 | 0.00 | 18.40 |
| 122 | | hexachloroethane | 0.402 | 0.312 | 22.4# | 86 | 0.00 | 16.58 |
| 123 | | 2-methylnaphthalene | 1.138 | 0.277 | 75.7# | 28# | 0.00 | 19.40 |
| 124 | | pentafluorobenzene(a) | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 9.51 |
| 125 | | vinyl bromide | ----------NA---------- | | | | | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A218787.D M2A9511.M Tue Oct 04 20:09:35 2022

# Initial Calibration Summary



**Job Number:** JD52507 **Sample:** V2V3747-ICC3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V92152.D
**Project:** EPT, Ithaca, NY

Response Factor Report MS2V

Method : C:\MSDCHEM\1\METHODS\M2V3747.M (RTE Integrator)
Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
Last Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

Calibration Files
4 =2V92146.D 0.2 =2V92138.D 8 =2V92148.D 50 =2V92152.D
100 =2V92154.D 0.5 =2V92140.D 200 =2V92156.D 20 =2V92150.D
1 =2V92142.D 2 =2V92144.D = =

| Compound | 4 | 0.2 | 8 | 50 | 100 | 0.5 | 200 | 20 | 1 | 2 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) I tert butyl alcohol-d9 | ----------ISTD---------- | | | | | | | | | | | |
| 2) ethanol | 0.106 | | 0.099 | 0.092 | 0.094 | 0.109 | 0.063 | 0.099 | 0.120 | 0.132 | 0.102 | 19.03 |
| 3) tertiary butyl alcohol | 1.545 | 1.557 | 1.526 | 1.473 | 1.549 | 1.541 | 1.403 | 1.490 | 1.625 | 1.865 | 1.558 | 7.90 |
| 4) 1,4-dioxane | 0.123 | | 0.126 | 0.128 | 0.130 | | 0.118 | 0.133 | 0.110 | 0.152 | 0.128 | 9.71 |
| 5) I pentafluorobenzene | ----------ISTD---------- | | | | | | | | | | | |
| 6) chlorodifluoromethane | 0.470 | | 0.480 | 0.447 | 0.477 | 0.420 | 0.464 | 0.432 | 0.480 | 0.532 | 0.467 | 6.99 |
| 7) dichlorodifluoromethane | 0.562 | | 0.541 | 0.556 | 0.606 | 0.503 | 0.582 | 0.544 | 0.563 | 0.571 | 0.559 | 5.12 |
| 8) chloromethane | 0.214 | | 0.195 | 0.188 | 0.191 | 0.271 | 0.180 | 0.188 | 0.240 | 0.232 | 0.211 | 14.65 |
| 9) vinyl chloride | 0.687 | 0.709 | 0.668 | 0.659 | 0.664 | 0.747 | 0.601 | 0.646 | 0.741 | 0.728 | 0.685 | 6.78 |
| 10) bromomethane | 0.526 | | 0.487 | 0.462 | 0.383 | | | 0.451 | | 0.549 | 0.476 | 12.37 |
| 11) chloroethane | 0.462 | | 0.407 | 0.437 | 0.425 | | 0.256 | 0.400 | 0.412 | 0.486 | 0.411 | 16.76 |
| 12) trichlorofluoromethane | 0.948 | 0.853 | 1.042 | 1.071 | 1.300 | 0.875 | 1.261 | 0.888 | 0.930 | 0.972 | 1.014 | 15.46 |
| 13) 1,3-butadiene | 0.667 | | 0.644 | 0.567 | 0.545 | 0.659 | 0.499 | 0.579 | 0.736 | 0.759 | 0.628 | 13.91 |
| 14) ethyl ether | 0.234 | 0.194 | 0.241 | 0.243 | 0.282 | 0.172 | 0.322 | 0.227 | 0.241 | 0.239 | 0.240 | 17.29 |
| 15) acrolein | 0.108 | | 0.104 | 0.103 | 0.115 | 0.085 | 0.111 | 0.102 | 0.111 | 0.119 | 0.106 | 9.08 |
| 16) freon 113 | 0.396 | 0.416 | 0.379 | 0.396 | 0.438 | 0.310 | 0.461 | 0.372 | 0.421 | 0.432 | 0.402 | 10.59 |
| 17) 1,1-dichloroethene | 0.614 | 0.576 | 0.609 | 0.607 | 0.649 | 0.505 | 0.655 | 0.561 | 0.644 | 0.670 | 0.609 | 8.27 |
| 18) acetone | 0.066 | 0.065 | 0.064 | 0.060 | 0.063 | 0.066 | 0.060 | 0.059 | 0.071 | 0.071 | 0.064 | 6.65 |
| 19) acetonitrile | 0.085 | | 0.083 | 0.077 | 0.078 | 0.083 | 0.074 | 0.078 | 0.093 | 0.094 | 0.083 | 8.67 |
| 20) iodomethane | 0.177 | | 0.222 | 0.415 | 0.446 | | | 0.303 | | 0.150 | 0.286 | 43.51 |
| ----- Quadratic regression ----- | | | | | | | | | | | Coefficient = | 0.9962 |
| Response Ratio = -0.01068 + 0.33182 *A + 0.06306 *A^2 | | | | | | | | | | | | |
| 21) carbon disulfide | 1.104 | | 1.090 | 1.026 | 1.091 | 1.149 | 1.086 | 0.999 | 1.242 | 1.226 | 1.113 | 7.33 |

# Initial Calibration Summary

**Job Number:** JD52507 **Sample:** V2V3747-ICC3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V92152.D
**Project:** EPT, Ithaca, NY

22) methylene chloride
0.453 0.432 0.408 0.430 0.526 0.425 0.400 0.518 0.489 0.454 10.29
23) methyl acetate
0.119 0.114 0.113 0.121 0.120 0.108 0.108 0.124 0.116 5.07
24) methyl tert butyl ether
1.235 1.127 1.198 1.241 1.345 1.081 1.413 1.155 1.245 1.282 1.232 8.08
25) trans-1,2-dichloroethene
0.418 0.427 0.430 0.426 0.458 0.356 0.486 0.400 0.433 0.466 0.430 8.41
26) hexane
0.236 0.247 0.237 0.236 0.248 0.211 0.251 0.213 0.257 0.247 0.238 6.59
27) di-isopropyl ether
1.224 1.146 1.202 1.209 1.266 1.105 1.298 1.152 1.256 1.322 1.218 5.72
28) ethyl tert-butyl ether
1.185 1.226 1.186 1.209 1.298 1.020 1.336 1.149 1.240 1.261 1.211 7.21
29) 1,1-dichloroethane
0.750 0.667 0.728 0.732 0.774 0.647 0.809 0.684 0.772 0.790 0.736 7.40
30) chloroprene
0.563 0.462 0.560 0.554 0.580 0.476 0.582 0.517 0.590 0.615 0.550 9.06
31) acrylonitrile
0.233 0.220 0.221 0.240 0.196 0.234 0.223 0.236 0.233 0.226 5.88
32) vinyl acetate
0.097 0.097 0.104 0.112 0.117 0.092 0.076 0.106 0.100 12.62
33) ethyl acetate
0.103 0.116 0.107 0.116 0.116 0.102 0.106 0.099 0.108 6.46
34) 2-butanone
0.092 0.065 0.088 0.089 0.096 0.076 0.098 0.086 0.091 0.092 0.087 11.50
35) 2,2-dichloropropane
0.622 0.630 0.626 0.637 0.693 0.612 0.741 0.588 0.687 0.652 0.649 7.03
36) cis-1,2-dichloroethene
0.493 0.391 0.485 0.508 0.546 0.426 0.593 0.466 0.509 0.555 0.497 12.13
37) propionitrile
0.105 0.098 0.104 0.098 0.102 0.089 0.096 0.099 0.107 0.111 0.101 6.22
38) methyl acrylate
0.108 0.116 0.114 0.126 0.129 0.107 0.109 0.118 0.116 6.89
39) bromochloromethane
0.279 0.209 0.268 0.263 0.252 0.229 0.250 0.264 0.299 0.285 0.260 10.20
40) tetrahydrofuran
0.115 0.103 0.096 0.100 0.100 0.097 0.133 0.106 12.47
41) chloroform
0.861 0.845 0.809 0.848 0.870 0.776 1.087 1.023 0.890 12.10
42) dibromofluoromethane (s)
0.500 0.493 0.501 0.502 0.499 0.495 0.510 0.500 0.495 0.490 0.499 1.13
43) methacrylonitrile
0.253 0.243 0.243 0.255 0.205 0.254 0.242 0.267 0.260 0.247 7.24
44) 1,1,1-trichloroethane
0.737 0.711 0.751 0.730 0.773 0.717 0.802 0.688 0.837 0.803 0.755 6.30
45) cyclohexane
0.559 0.572 0.547 0.577 0.633 0.562 0.675 0.549 0.629 0.593 0.590 7.22
46) 1,1-dichloropropene
0.580 0.551 0.574 0.591 0.629 0.546 0.654 0.545 0.615 0.613 0.590 6.35
47) carbon tetrachloride
0.661 0.668 0.682 0.708 0.778 0.599 0.837 0.640 0.705 0.699 0.698 9.73
48) isobutyl alcohol
0.023 0.022 0.021 0.020 0.015 0.021 0.023 0.025 0.021 14.05
49) tert-amyl alcohol
0.046 0.045 0.040 0.040 0.040 0.038 0.042 0.050 0.053 0.044 11.57

50) I 1,4-difluorobenzene ----------ISTD----------
51) 1,2-dichloroethane-d4 (s)
0.353 0.345 0.346 0.359 0.371 0.342 0.399 0.351 0.342 0.337 0.355 5.22

# Initial Calibration Summary

**Job Number:** JD52507 **Sample:** V2V3747-ICC3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V92152.D
**Project:** EPT, Ithaca, NY

52) n-butyl alcohol
0.019 0.019 0.018 0.019 0.014 0.017 0.018 0.018 0.019 0.018 8.41
53) benzene
1.202 1.227 1.172 1.158 1.240 1.093 1.271 1.118 1.245 1.272 1.200 5.21
54) tert-amyl methyl ether
0.945 0.912 0.922 0.930 1.014 0.797 1.056 0.888 0.944 0.991 0.940 7.61
55) iso-octane
0.657 0.589 0.631 0.623 0.667 0.575 0.676 0.598 0.700 0.689 0.640 6.83
56) heptane
0.120 0.121 0.121 0.125 0.125 0.116 0.134 0.129 0.124 4.62
57) isopropyl acetate
0.097 0.092 0.095 0.105 0.107 0.094 0.093 0.096 0.097 5.90
58) 1,2-dichloroethane
0.502 0.480 0.469 0.502 0.484 0.510 0.466 0.541 0.542 0.500 5.61
59) trichloroethene
0.339 0.365 0.343 0.349 0.377 0.323 0.391 0.323 0.363 0.379 0.355 6.64
60) ethyl acrylate
0.566 0.547 0.540 0.580 0.494 0.568 0.527 0.582 0.621 0.558 6.56
61) 2-nitropropane
0.133 0.134 0.143 0.170 0.167 0.132 0.154 0.151 0.148 10.12
62) 2-chloroethyl vinyl ether
0.191 0.155 0.195 0.200 0.223 0.138 0.230 0.188 0.169 0.188 0.188 15.05
63) methyl methacrylate
0.123 0.114 0.121 0.138 0.147 0.114 0.100 0.118 0.122 12.17
64) 1,2-dichloropropane
0.310 0.303 0.310 0.338 0.242 0.350 0.288 0.336 0.348 0.314 11.01
65) methylcyclohexane
0.437 0.431 0.415 0.435 0.483 0.387 0.513 0.404 0.456 0.463 0.442 8.52
66) dibromomethane
0.276 0.288 0.263 0.261 0.282 0.253 0.285 0.251 0.293 0.294 0.275 6.00
67) bromodichloromethane
0.470 0.538 0.454 0.471 0.500 0.438 0.511 0.441 0.496 0.509 0.483 6.88
68) epichlorohydrin
0.053 0.052 0.051 0.053 0.050 0.051 0.052 0.054 0.052 2.80
69) cis-1,3-dichloropropene
0.506 0.449 0.497 0.510 0.547 0.410 0.546 0.481 0.550 0.534 0.503 9.13
70) 4-methyl-2-pentanone
0.195 0.153 0.188 0.191 0.210 0.166 0.208 0.183 0.191 0.198 0.188 9.26
71) 3-methyl-1-butanol
0.018 0.018 0.020 0.021 0.011 0.019 0.019 0.016 0.018 0.018 15.39

72) I chlorobenzene-d5 ----------ISTD----------
73) toluene-d8 (s)
1.248 1.235 1.258 1.209 1.172 1.265 1.156 1.238 1.259 1.267 1.231 3.19
74) toluene
0.824 0.929 0.839 0.793 0.836 0.748 0.858 0.766 0.869 0.925 0.839 7.20
75) ethyl methacrylate
0.487 0.492 0.493 0.521 0.397 0.502 0.475 0.493 0.527 0.487 7.72
76) trans-1,3-dichloropropene
0.502 0.429 0.505 0.519 0.553 0.405 0.557 0.487 0.506 0.538 0.500 9.89
77) 1,1,2-trichloroethane
0.309 0.231 0.293 0.286 0.303 0.280 0.296 0.277 0.309 0.325 0.291 8.77
78) 2-hexanone
0.221 0.187 0.218 0.213 0.224 0.183 0.212 0.210 0.225 0.236 0.213 7.75
79) tetrachloroethene
0.328 0.315 0.328 0.321 0.340 0.260 0.348 0.299 0.338 0.374 0.325 9.42
80) 1,3-dichloropropane
0.549 0.530 0.523 0.529 0.557 0.489 0.549 0.508 0.537 0.588 0.536 5.12
81) butyl acetate
0.286 0.266 0.274 0.266 0.277 0.232 0.264 0.261 0.269 0.308 0.270 7.20

# Initial Calibration Summary

**Job Number:** JD52507 **Sample:** V2V3747-ICC3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V92152.D
**Project:** EPT, Ithaca, NY

82) dibromochloromethane
0.454 0.444 0.453 0.464 0.497 0.376 0.495 0.437 0.471 0.479 0.457 7.62
83) 1,2-dibromoethane
0.419 0.429 0.413 0.401 0.422 0.323 0.413 0.386 0.434 0.442 0.408 8.33
84) n-butyl ether
1.192 1.098 1.215 1.221 1.291 1.013 1.272 1.164 1.207 1.302 1.197 7.44
85) chlorobenzene
0.993 1.006 1.000 0.979 1.043 0.948 1.039 0.940 1.063 1.090 1.010 4.82
86) 1,1,1,2-tetrachloroethane
0.391 0.341 0.382 0.416 0.472 0.301 0.507 0.382 0.372 0.387 0.395 15.03
87) ethylbenzene
1.543 1.651 1.547 1.553 1.668 1.441 1.698 1.458 1.624 1.678 1.586 5.77
88) m,p-xylene
0.595 0.623 0.599 0.602 0.653 0.548 0.675 0.569 0.632 0.655 0.615 6.51
89) o-xylene
1.206 1.234 1.193 1.218 1.296 1.041 1.316 1.136 1.210 1.311 1.216 6.92
90) styrene
0.997 0.914 1.010 1.022 1.108 0.868 1.128 0.975 1.020 1.049 1.009 7.82
91) butyl acrylate
0.311 0.246 0.314 0.317 0.338 0.234 0.323 0.309 0.291 0.313 0.300 11.21
92) n-amyl acetate
0.262 0.270 0.272 0.282 0.269 0.262 0.250 0.273 0.267 3.55
93) bromoform
0.333 0.329 0.359 0.384 0.259 0.381 0.334 0.333 0.333 0.338 10.82
94) isopropylbenzene
1.451 1.478 1.422 1.420 1.485 1.239 1.465 1.349 1.550 1.570 1.443 6.63
95) cis-1,4-dichloro-2-butene
0.150 0.155 0.191 0.207 0.208 0.166 0.131 0.141 0.169 17.64

96) I 1,4-dichlorobenzene-d ----------ISTD----------
97) 4-bromofluorobenzene (s)
0.880 0.880 0.886 0.899 0.912 0.901 0.902 0.875 0.897 0.896 0.893 1.34
98) bromobenzene
0.983 0.933 0.960 1.009 1.147 0.853 1.188 0.921 1.027 1.091 1.011 10.37
99) 1,1,2,2-tetrachloroethane
1.227 1.200 1.216 1.217 1.338 1.098 1.302 1.144 1.262 1.409 1.241 7.33
100) trans-1,4-dichloro-2-butene
0.240 0.264 0.319 0.369 0.375 0.278 0.242 0.254 0.293 18.80
101) 1,2,3-trichloropropane
0.362 0.367 0.366 0.402 0.326 0.386 0.351 0.368 0.393 0.369 6.20
102) n-propylbenzene
3.526 3.626 3.584 3.596 3.879 3.279 3.833 3.390 3.706 4.073 3.649 6.44
103) 2-chlorotoluene
0.825 0.699 0.831 0.840 0.928 0.717 0.930 0.784 0.879 0.931 0.836 10.08
104) 4-chlorotoluene
0.836 0.770 0.862 0.866 0.947 0.763 0.955 0.828 0.838 0.945 0.861 8.05
105) 1,3,5-trimethylbenzene
2.351 2.179 2.426 2.450 2.682 2.138 2.749 2.304 2.517 2.634 2.443 8.45
106) tert-butylbenzene
2.117 1.874 2.081 2.125 2.335 1.838 2.381 1.967 2.211 2.369 2.130 9.25
107) 1,2,4-trimethylbenzene
2.420 2.876 2.416 2.468 2.753 2.250 2.757 2.303 2.560 2.696 2.550 8.32
108) sec-butylbenzene
2.838 2.661 2.853 2.868 3.135 2.495 3.147 2.690 2.960 3.211 2.886 8.06
109) 1,3-dichlorobenzene
1.599 1.657 1.584 1.636 1.843 1.464 1.886 1.522 1.662 1.819 1.667 8.41
110) p-isopropyltoluene
2.370 2.320 2.414 2.452 2.726 2.027 2.743 2.316 2.434 2.674 2.448 8.98
111) 1,2,3-trimethylbenzene
2.514 2.499 2.486 2.465 2.761 2.192 2.797 2.372 2.642 2.772 2.550 7.60

# Initial Calibration Summary

**Job Number:** JD52507 **Sample:** V2V3747-ICC3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V92152.D
**Project:** EPT, Ithaca, NY

```
112)  1,4-dichlorobenzene
       1.616 1.853 1.649 1.677 1.877 1.486 1.933 1.595 1.768 1.937  1.739    9.02
113)  1,2-dichlorobenzene
       1.557 1.365 1.558 1.554 1.737 1.431 1.755 1.477 1.630 1.649  1.571    8.01
114)  benzyl chloride
       1.507 1.406 1.587 1.739 1.947 1.255 1.938 1.619 1.522 1.664  1.618   13.45
115)  n-butylbenzene
       0.980 1.001 1.015 1.067 1.193 0.824 1.232 0.981 0.977 1.142  1.041   11.60
116)  hexachloroethane
       0.345       0.350 0.400 0.456       0.473 0.343 0.332 0.338  0.380   14.96
117)  1,2-dibromo-3-chloropropane
       0.317       0.326 0.351 0.398 0.246 0.385 0.327 0.308 0.336  0.333   13.34
118)  1,3,5-trichlorobenzene
       0.847 0.746 0.857 0.877 1.013 0.749 1.030 0.844 0.876 0.981  0.882   11.21
119)  1,2,4-trichlorobenzene
       0.738 0.673 0.755 0.777 0.915 0.582 0.942 0.735 0.762 0.854  0.773   13.96
120)  hexachlorobutadiene
       0.278       0.266 0.260 0.301 0.184 0.302 0.263 0.307 0.297  0.273   13.95
121)  naphthalene
       2.501 2.312 2.500 2.634 3.049 2.154 3.072 2.464 2.531 2.773  2.599   11.33
122)  1,2,3-trichlorobenzene
       0.717 0.496 0.689 0.717 0.831 0.509 0.848 0.701 0.659 0.771  0.694   16.95
123)  2-methylnaphthalene
       0.918       0.893 0.828 0.968 0.666 0.988 0.835 0.878 0.979  0.883   11.41
 ----------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M2V3747.M         Mon Sep 12 11:58:53 2022   RPT1
```

# Initial Calibration Verification



**Job Number:** JD52507 **Sample:** V2V3747-ICV3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V92162.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V2V3747\2V92162.D Vial: 14
Acq On : 11 Sep 2022 9:28 pm Operator: PrashanS
Sample : ICV3747-50 Inst : MS2V
Misc : MS61977,V2V3747,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2V3747.M (RTE Integrator)
Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
Last Update : Mon Sep 12 11:37:13 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 2.31 |
| 2 | | ethanol | 0.102 | 0.098 | 3.9 | 107 | 0.00 | 1.88 |
| 3 | | tertiary butyl alcohol | 1.558 | 1.491 | 4.3 | 102 | 0.00 | 2.36 |
| 4 | | 1,4-dioxane | 0.128 | 0.134 | -4.7 | 105 | 0.00 | 4.10 |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 3.28 |
| 6 | | chlorodifluoromethane | | ----------NA---------- | | | | |
| 7 | | dichlorodifluoromethane | 0.559 | 0.566 | -1.3 | 103 | 0.00 | 1.27 |
| 8 | | chloromethane | 0.211 | 0.179 | 15.2 | 97 | 0.00 | 1.39 |
| 9 | | vinyl chloride | 0.685 | 0.659 | 3.8 | 102 | 0.00 | 1.45 |
| 10 | | bromomethane | 0.476 | 0.450 | 5.5 | 99 | 0.00 | 1.62 |
| 11 | | chloroethane | 0.411 | 0.447 | -8.8 | 104 | 0.00 | 1.68 |
| 12 | | trichlorofluoromethane | 1.014 | 1.006 | 0.8 | 95 | 0.00 | 1.81 |
| 13 | | 1,3-butadiene | 0.628 | 0.686 | -9.2 | 123 | 0.00 | 1.47 |
| 14 | | ethyl ether | 0.240 | 0.252 | -5.0 | 105 | 0.00 | 1.95 |
| 15 | | acrolein | 0.106 | 0.096 | 9.4 | 95 | 0.00 | 2.02 |
| 16 | | freon 113 | 0.402 | 0.398 | 1.0 | 102 | 0.00 | 2.09 |
| 17 | | 1,1-dichloroethene | 0.609 | 0.645 | -5.9 | 108 | 0.00 | 2.09 |
| 18 | | acetone | 0.064 | 0.059 | 7.8 | 100 | 0.00 | 2.09 |
| 19 | | acetonitrile | 0.083 | 0.062 | 25.3 | 83 | 0.00 | 2.24 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | | iodomethane | 50.000 | 44.799 | 10.4 | 83 | 0.00 | 2.18 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | | carbon disulfide | 1.113 | 1.112 | 0.1 | 110 | 0.00 | 2.23 |
| 22 | | methylene chloride | 0.454 | 0.432 | 4.8 | 108 | 0.00 | 2.34 |
| 23 | | methyl acetate | 0.116 | 0.133 | -14.7 | 120 | 0.00 | 2.25 |
| 24 | | methyl tert butyl ether | 1.232 | 1.301 | -5.6 | 107 | 0.00 | 2.47 |
| 25 | | trans-1,2-dichloroethene | 0.430 | 0.441 | -2.6 | 105 | 0.00 | 2.48 |
| 26 | | hexane | 0.238 | 0.232 | 2.5 | 100 | 0.00 | 2.63 |
| 27 | | di-isopropyl ether | 1.218 | 1.244 | -2.1 | 105 | 0.00 | 2.71 |
| 28 | | ethyl tert-butyl ether | 1.211 | 1.203 | 0.7 | 101 | 0.00 | 2.90 |
| 29 | | 1,1-dichloroethane | 0.736 | 0.764 | -3.8 | 106 | 0.00 | 2.71 |
| 30 | | chloroprene | 0.550 | 0.601 | -9.3 | 110 | 0.00 | 2.76 |
| 31 | | acrylonitrile | 0.226 | 0.235 | -4.0 | 108 | 0.00 | 2.45 |
| 32 | | vinyl acetate | 0.100 | 0.088 | 12.0 | 86 | 0.00 | 2.69 |
| 33 | | ethyl acetate | 0.108 | 0.111 | -2.8 | 105 | 0.00 | 3.01 |
| 34 | | 2-butanone | 0.087 | 0.094 | -8.0 | 107 | 0.00 | 3.00 |
| 35 | | 2,2-dichloropropane | 0.649 | 0.633 | 2.5 | 101 | 0.00 | 3.03 |
| 36 | | cis-1,2-dichloroethene | 0.497 | 0.517 | -4.0 | 104 | 0.00 | 3.02 |
| 37 | | propionitrile | 0.101 | 0.094 | 6.9 | 98 | 0.00 | 3.03 |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** V2V3747-ICV3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V92162.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | | methyl acrylate | 0.116 | 0.117 | -0.9 | 104 | 0.00 | 3.04 |
| 39 | | bromochloromethane | 0.260 | 0.262 | -0.8 | 101 | 0.00 | 3.15 |
| 40 | | tetrahydrofuran | 0.106 | 0.100 | 5.7 | 107 | 0.00 | 3.17 |
| 41 | | chloroform | 0.890 | 0.847 | 4.8 | 106 | 0.00 | 3.20 |
| 42 | S | dibromofluoromethane (s) | 0.499 | 0.498 | 0.2 | 101 | 0.00 | 3.29 |
| 43 | | methacrylonitrile | 0.247 | 0.253 | -2.4 | 106 | 0.00 | 3.12 |
| 44 | | 1,1,1-trichloroethane | 0.755 | 0.754 | 0.1 | 105 | 0.00 | 3.32 |
| 45 | | cyclohexane | 0.590 | 0.566 | 4.1 | 100 | 0.00 | 3.36 |
| 46 | | 1,1-dichloropropene | 0.590 | 0.607 | -2.9 | 104 | 0.00 | 3.40 |
| 47 | | carbon tetrachloride | 0.698 | 0.729 | -4.4 | 105 | 0.00 | 3.41 |
| 48 | | isobutyl alcohol | 0.021 | 0.022 | -4.8 | 111 | 0.00 | 3.40 |
| 49 | | tert-amyl alcohol | 0.044 | 0.039 | 11.4 | 100 | 0.00 | 3.47 |
| 50 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 3.75 |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.355 | 0.353 | 0.6 | 99 | 0.00 | 3.49 |
| 52 | | n-butyl alcohol | 0.018 | 0.018 | 0.0 | 104 | 0.00 | 3.79 |
| 53 | | benzene | 1.200 | 1.200 | 0.0 | 104 | 0.00 | 3.52 |
| 54 | | tert-amyl methyl ether | 0.940 | 0.896 | 4.7 | 97 | 0.00 | 3.57 |
| 55 | | iso-octane | 0.640 | 0.607 | 5.2 | 98 | 0.00 | 3.57 |
| 56 | | heptane | 0.124 | 0.126 | -1.6 | 105 | 0.00 | 3.67 |
| 57 | | isopropyl acetate | 0.097 | 0.098 | -1.0 | 104 | 0.00 | 3.50 |
| 58 | | 1,2-dichloroethane | 0.500 | 0.485 | 3.0 | 104 | 0.00 | 3.54 |
| 59 | | trichloroethene | 0.355 | 0.361 | -1.7 | 104 | 0.00 | 3.90 |
| 60 | | ethyl acrylate | 0.558 | 0.535 | 4.1 | 100 | 0.00 | 3.92 |
| 61 | | 2-nitropropane | 0.148 | 0.151 | -2.0 | 106 | 0.00 | 4.35 |
| 62 | | 2-chloroethyl vinyl ether | 0.188 | 0.224 | -19.1 | 113 | 0.00 | 4.39 |
| 63 | | methyl methacrylate | 0.122 | 0.136 | -11.5 | 114 | 0.00 | 4.07 |
| 64 | | 1,2-dichloropropane | 0.314 | 0.320 | -1.9 | 104 | 0.00 | 4.07 |
| 65 | | methylcyclohexane | 0.442 | 0.459 | -3.8 | 106 | 0.00 | 4.06 |
| 66 | | dibromomethane | 0.275 | 0.268 | 2.5 | 104 | 0.00 | 4.12 |
| 67 | | bromodichloromethane | 0.483 | 0.480 | 0.6 | 103 | 0.00 | 4.22 |
| 68 | | epichlorohydrin | 0.052 | 0.051 | 1.9 | 100 | 0.00 | 4.42 |
| 69 | | cis-1,3-dichloropropene | 0.503 | 0.514 | -2.2 | 102 | 0.00 | 4.50 |
| 70 | | 4-methyl-2-pentanone | 0.188 | 0.195 | -3.7 | 103 | 0.00 | 4.59 |
| 71 | | 3-methyl-1-butanol | 0.018 | 0.020 | -11.1 | 103 | 0.00 | 4.61 |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 100 | 0.00 | 5.73 |
| 73 | S | toluene-d8 (s) | 1.231 | 1.214 | 1.4 | 100 | 0.00 | 4.69 |
| 74 | | toluene | 0.839 | 0.823 | 1.9 | 104 | 0.00 | 4.74 |
| 75 | | ethyl methacrylate | 0.487 | 0.477 | 2.1 | 97 | 0.00 | 4.90 |
| 76 | | trans-1,3-dichloropropene | 0.500 | 0.529 | -5.8 | 102 | 0.00 | 4.88 |
| 77 | | 1,1,2-trichloroethane | 0.291 | 0.297 | -2.1 | 104 | 0.00 | 5.02 |
| 78 | | 2-hexanone | 0.213 | 0.217 | -1.9 | 102 | 0.00 | 5.16 |
| 79 | | tetrachloroethene | 0.325 | 0.337 | -3.7 | 105 | 0.00 | 5.11 |
| 80 | | 1,3-dichloropropane | 0.536 | 0.544 | -1.5 | 103 | 0.00 | 5.14 |
| 81 | | butyl acetate | 0.270 | 0.286 | -5.9 | 108 | 0.00 | 5.24 |
| 82 | | dibromochloromethane | 0.457 | 0.480 | -5.0 | 103 | 0.00 | 5.30 |
| 83 | | 1,2-dibromoethane | 0.408 | 0.411 | -0.7 | 103 | 0.00 | 5.39 |
| 84 | | n-butyl ether | 1.197 | 1.210 | -1.1 | 99 | 0.00 | 5.80 |
| 85 | | chlorobenzene | 1.010 | 1.007 | 0.3 | 103 | 0.00 | 5.76 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.395 | 0.430 | -8.9 | 103 | 0.00 | 5.81 |
| 87 | | ethylbenzene | 1.586 | 1.616 | -1.9 | 104 | 0.00 | 5.82 |
| 88 | | m,p-xylene | 0.615 | 0.623 | -1.3 | 103 | 0.00 | 5.92 |
| 89 | | o-xylene | 1.216 | 1.250 | -2.8 | 103 | 0.00 | 6.21 |
| 90 | | styrene | 1.009 | 1.052 | -4.3 | 103 | 0.00 | 6.23 |
| 91 | | butyl acrylate | 0.300 | 0.326 | -8.7 | 103 | 0.00 | 6.15 |
| 92 | | n-amyl acetate | 0.267 | 0.274 | -2.6 | 101 | 0.00 | 6.33 |
| 93 | | bromoform | 0.338 | 0.371 | -9.8 | 103 | 0.00 | 6.37 |
| 94 | | isopropylbenzene | 1.443 | 1.463 | -1.4 | 103 | 0.00 | 6.49 |
| 95 | | cis-1,4-dichloro-2-butene | 0.169 | 0.182 | -7.7 | 95 | 0.00 | 6.54 |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** V2V3747-ICV3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V92162.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 98 | 0.00 | 7.50 |
| 97 | S | 4-bromofluorobenzene (s) | 0.893 | 0.915 | -2.5 | 100 | 0.00 | 6.64 |
| 98 | | bromobenzene | 1.011 | 1.065 | -5.3 | 104 | 0.00 | 6.75 |
| 99 | | 1,1,2,2-tetrachloroethane | 1.241 | 1.269 | -2.3 | 102 | 0.00 | 6.73 |
| 100 | | trans-1,4-dichloro-2-bute | 0.293 | 0.345 | -17.7 | 106 | 0.00 | 6.76 |
| 101 | | 1,2,3-trichloropropane | 0.369 | 0.389 | -5.4 | 104 | 0.00 | 6.78 |
| 102 | | n-propylbenzene | 3.649 | 3.751 | -2.8 | 102 | 0.00 | 6.82 |
| 103 | | 2-chlorotoluene | 0.836 | 0.880 | -5.3 | 103 | 0.00 | 6.89 |
| 104 | | 4-chlorotoluene | 0.861 | 0.901 | -4.6 | 102 | 0.00 | 6.99 |
| 105 | | 1,3,5-trimethylbenzene | 2.443 | 2.551 | -4.4 | 102 | 0.00 | 6.96 |
| 106 | | tert-butylbenzene | 2.130 | 2.528 | -18.7 | 117 | 0.00 | 7.20 |
| 107 | | 1,2,4-trimethylbenzene | 2.550 | 2.608 | -2.3 | 104 | 0.00 | 7.24 |
| 108 | | sec-butylbenzene | 2.886 | 2.996 | -3.8 | 103 | 0.00 | 7.36 |
| 109 | | 1,3-dichlorobenzene | 1.667 | 1.702 | -2.1 | 102 | 0.00 | 7.45 |
| 110 | | p-isopropyltoluene | 2.448 | 2.569 | -4.9 | 103 | 0.00 | 7.46 |
| 111 | | 1,2,3-trimethylbenzene | | ----------NA---------- | | | | |
| 112 | | 1,4-dichlorobenzene | 1.739 | 1.696 | 2.5 | 99 | 0.00 | 7.52 |
| 113 | | 1,2-dichlorobenzene | 1.571 | 1.631 | -3.8 | 103 | 0.00 | 7.77 |
| 114 | | benzyl chloride | 1.618 | 1.620 | -0.1 | 91 | 0.00 | 7.60 |
| 115 | | n-butylbenzene | 1.041 | 1.108 | -6.4 | 102 | 0.00 | 7.75 |
| 116 | | hexachloroethane | 0.380 | 0.425 | -11.8 | 104 | 0.00 | 7.96 |
| 117 | | 1,2-dibromo-3-chloropropa | 0.333 | 0.372 | -11.7 | 104 | 0.00 | 8.29 |
| 118 | | 1,3,5-trichlorobenzene | 0.882 | 0.932 | -5.7 | 104 | 0.00 | 8.42 |
| 119 | | 1,2,4-trichlorobenzene | 0.773 | 0.828 | -7.1 | 105 | 0.00 | 8.82 |
| 120 | | hexachlorobutadiene | 0.273 | 0.282 | -3.3 | 107 | 0.00 | 8.91 |
| 121 | | naphthalene | 2.599 | 2.778 | -6.9 | 104 | 0.00 | 8.98 |
| 122 | | 1,2,3-trichlorobenzene | 0.694 | 0.762 | -9.8 | 104 | 0.00 | 9.12 |
| 123 | | 2-methylnaphthalene | 0.883 | 0.845 | 4.3 | 100 | 0.00 | 9.67 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2V92152.D M2V3747.M Mon Sep 12 11:40:42 2022 RPT1

# Initial Calibration Verification



**Job Number:** JD52507 **Sample:** V2V3747-ICV3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V92164.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V2V3747\2V92164.D Vial: 15
Acq On : 11 Sep 2022 9:57 pm Operator: PrashanS
Sample : ICV3747-50 Inst : MS2V
Misc : MS61977,V2V3747,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2V3747.M (RTE Integrator)
Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
Last Update : Mon Sep 12 11:37:13 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 106 | -0.01 | 2.31 |
| 2 | | ethanol | | ----------NA---------- | | | | |
| 3 | | tertiary butyl alcohol | | ----------NA---------- | | | | |
| 4 | | 1,4-dioxane | | ----------NA---------- | | | | |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 3.28 |
| 6 | | chlorodifluoromethane | 0.467 | 0.475 | -1.7 | 109 | -0.01 | 1.28 |
| 7 | | dichlorodifluoromethane | | ----------NA---------- | | | | |
| 8 | | chloromethane | | ----------NA---------- | | | | |
| 9 | | vinyl chloride | | ----------NA---------- | | | | |
| 10 | | bromomethane | | ----------NA---------- | | | | |
| 11 | | chloroethane | | ----------NA---------- | | | | |
| 12 | | trichlorofluoromethane | | ----------NA---------- | | | | |
| 13 | | 1,3-butadiene | | ----------NA---------- | | | | |
| 14 | | ethyl ether | | ----------NA---------- | | | | |
| 15 | | acrolein | | ----------NA---------- | | | | |
| 16 | | freon 113 | | ----------NA---------- | | | | |
| 17 | | 1,1-dichloroethene | | ----------NA---------- | | | | |
| 18 | | acetone | | ----------NA---------- | | | | |
| 19 | | acetonitrile | 0.083 | 0.073 | 12.0 | 98 | 0.00 | 2.23 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | | iodomethane | | ----------NA---------- | | | | |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | | carbon disulfide | | ----------NA---------- | | | | |
| 22 | | methylene chloride | | ----------NA---------- | | | | |
| 23 | | methyl acetate | | ----------NA---------- | | | | |
| 24 | | methyl tert butyl ether | | ----------NA---------- | | | | |
| 25 | | trans-1,2-dichloroethene | | ----------NA---------- | | | | |
| 26 | | hexane | | ----------NA---------- | | | | |
| 27 | | di-isopropyl ether | | ----------NA---------- | | | | |
| 28 | | ethyl tert-butyl ether | | ----------NA---------- | | | | |
| 29 | | 1,1-dichloroethane | | ----------NA---------- | | | | |
| 30 | | chloroprene | | ----------NA---------- | | | | |
| 31 | | acrylonitrile | 0.226 | 0.189 | 16.4 | 88 | 0.00 | 2.44 |
| 32 | | vinyl acetate | | ----------NA---------- | | | | |
| 33 | | ethyl acetate | | ----------NA---------- | | | | |
| 34 | | 2-butanone | | ----------NA---------- | | | | |
| 35 | | 2,2-dichloropropane | | ----------NA---------- | | | | |
| 36 | | cis-1,2-dichloroethene | | ----------NA---------- | | | | |
| 37 | | propionitrile | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** V2V3747-ICV3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V92164.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | | methyl acrylate | | ----------NA---------- | | | | |
| 39 | | bromochloromethane | | ----------NA---------- | | | | |
| 40 | | tetrahydrofuran | | ----------NA---------- | | | | |
| 41 | | chloroform | | ----------NA---------- | | | | |
| 42 | S | dibromofluoromethane (s) | 0.499 | 0.500 | -0.2 | 102 | 0.00 | 3.29 |
| 43 | | methacrylonitrile | | ----------NA---------- | | | | |
| 44 | | 1,1,1-trichloroethane | | ----------NA---------- | | | | |
| 45 | | cyclohexane | | ----------NA---------- | | | | |
| 46 | | 1,1-dichloropropene | | ----------NA---------- | | | | |
| 47 | | carbon tetrachloride | | ----------NA---------- | | | | |
| 48 | | isobutyl alcohol | | ----------NA---------- | | | | |
| 49 | | tert-amyl alcohol | | ----------NA---------- | | | | |
| 50 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 3.74 |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.355 | 0.358 | -0.8 | 101 | 0.00 | 3.49 |
| 52 | | n-butyl alcohol | | ----------NA---------- | | | | |
| 53 | | benzene | | ----------NA---------- | | | | |
| 54 | | tert-amyl methyl ether | | ----------NA---------- | | | | |
| 55 | | iso-octane | | ----------NA---------- | | | | |
| 56 | | heptane | | ----------NA---------- | | | | |
| 57 | | isopropyl acetate | | ----------NA---------- | | | | |
| 58 | | 1,2-dichloroethane | | ----------NA---------- | | | | |
| 59 | | trichloroethene | | ----------NA---------- | | | | |
| 60 | | ethyl acrylate | | ----------NA---------- | | | | |
| 61 | | 2-nitropropane | | ----------NA---------- | | | | |
| 62 | | 2-chloroethyl vinyl ether | | ----------NA---------- | | | | |
| 63 | | methyl methacrylate | | ----------NA---------- | | | | |
| 64 | | 1,2-dichloropropane | | ----------NA---------- | | | | |
| 65 | | methylcyclohexane | | ----------NA---------- | | | | |
| 66 | | dibromomethane | | ----------NA---------- | | | | |
| 67 | | bromodichloromethane | | ----------NA---------- | | | | |
| 68 | | epichlorohydrin | | ----------NA---------- | | | | |
| 69 | | cis-1,3-dichloropropene | | ----------NA---------- | | | | |
| 70 | | 4-methyl-2-pentanone | | ----------NA---------- | | | | |
| 71 | | 3-methyl-1-butanol | | ----------NA---------- | | | | |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 99 | 0.00 | 5.73 |
| 73 | S | toluene-d8 (s) | 1.231 | 1.256 | -2.0 | 103 | 0.00 | 4.69 |
| 74 | | toluene | | ----------NA---------- | | | | |
| 75 | | ethyl methacrylate | | ----------NA---------- | | | | |
| 76 | | trans-1,3-dichloropropene | | ----------NA---------- | | | | |
| 77 | | 1,1,2-trichloroethane | | ----------NA---------- | | | | |
| 78 | | 2-hexanone | | ----------NA---------- | | | | |
| 79 | | tetrachloroethene | 0.325 | 0.305 | 6.2 | 94 | 0.00 | 5.11 |
| 80 | | 1,3-dichloropropane | | ----------NA---------- | | | | |
| 81 | | butyl acetate | | ----------NA---------- | | | | |
| 82 | | dibromochloromethane | | ----------NA---------- | | | | |
| 83 | | 1,2-dibromoethane | | ----------NA---------- | | | | |
| 84 | | n-butyl ether | | ----------NA---------- | | | | |
| 85 | | chlorobenzene | | ----------NA---------- | | | | |
| 86 | | 1,1,1,2-tetrachloroethane | | ----------NA---------- | | | | |
| 87 | | ethylbenzene | | ----------NA---------- | | | | |
| 88 | | m,p-xylene | | ----------NA---------- | | | | |
| 89 | | o-xylene | | ----------NA---------- | | | | |
| 90 | | styrene | | ----------NA---------- | | | | |
| 91 | | butyl acrylate | | ----------NA---------- | | | | |
| 92 | | n-amyl acetate | | ----------NA---------- | | | | |
| 93 | | bromoform | | ----------NA---------- | | | | |
| 94 | | isopropylbenzene | | ----------NA---------- | | | | |
| 95 | | cis-1,4-dichloro-2-butene | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** V2V3747-ICV3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V92164.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 7.50 |
| 97 | S | 4-bromofluorobenzene (s) | 0.893 | 0.881 | 1.3 | 102 | 0.00 | 6.64 |
| 98 | | bromobenzene | | ----------NA---------- | | | | |
| 99 | | 1,1,2,2-tetrachloroethane | | ----------NA---------- | | | | |
| 100 | | trans-1,4-dichloro-2-bute | | ----------NA---------- | | | | |
| 101 | | 1,2,3-trichloropropane | | ----------NA---------- | | | | |
| 102 | | n-propylbenzene | | ----------NA---------- | | | | |
| 103 | | 2-chlorotoluene | | ----------NA---------- | | | | |
| 104 | | 4-chlorotoluene | | ----------NA---------- | | | | |
| 105 | | 1,3,5-trimethylbenzene | | ----------NA---------- | | | | |
| 106 | | tert-butylbenzene | | ----------NA---------- | | | | |
| 107 | | 1,2,4-trimethylbenzene | | ----------NA---------- | | | | |
| 108 | | sec-butylbenzene | | ----------NA---------- | | | | |
| 109 | | 1,3-dichlorobenzene | | ----------NA---------- | | | | |
| 110 | | p-isopropyltoluene | | ----------NA---------- | | | | |
| 111 | | 1,2,3-trimethylbenzene | 2.550 | 2.769 | -8.6 | 117 | 0.00 | 7.54 |
| 112 | | 1,4-dichlorobenzene | | ----------NA---------- | | | | |
| 113 | | 1,2-dichlorobenzene | | ----------NA---------- | | | | |
| 114 | | benzyl chloride | | ----------NA---------- | | | | |
| 115 | | n-butylbenzene | | ----------NA---------- | | | | |
| 116 | | hexachloroethane | | ----------NA---------- | | | | |
| 117 | | 1,2-dibromo-3-chloropropa | | ----------NA---------- | | | | |
| 118 | | 1,3,5-trichlorobenzene | | ----------NA---------- | | | | |
| 119 | | 1,2,4-trichlorobenzene | | ----------NA---------- | | | | |
| 120 | | hexachlorobutadiene | | ----------NA---------- | | | | |
| 121 | | naphthalene | | ----------NA---------- | | | | |
| 122 | | 1,2,3-trichlorobenzene | | ----------NA---------- | | | | |
| 123 | | 2-methylnaphthalene | | ----------NA---------- | | | | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2V92152.D M2V3747.M Mon Sep 12 11:45:28 2022 RPT1

# Continuing Calibration Summary



**Job Number:** JD52507 **Sample:** V2V3773-CC3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V92880.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\KI...-22\v2v3773\2v92880.d Vial: 30
Acq On : 27 Sep 2022 9:00 pm Operator: KYLEM
Sample : cc3747-50 Inst : MS2V
Misc : MS62460,V2V3773,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\m2v3747.m (RTE Integrator)
Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
Last Update : Mon Sep 12 11:37:13 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 88 | 0.00 | 2.32 |
| 2 | ethanol | 0.102 | 0.186 | -82.4# | 179 | 0.00 | 1.89 |
| 3 | tertiary butyl alcohol | 1.558 | 1.290 | 17.2 | 77 | 0.00 | 2.36 |
| 4 | 1,4-dioxane | 0.128 | 0.120 | 6.3 | 83 | 0.00 | 4.10 |
| 5 I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 69 | 0.00 | 3.29 |
| 6 | chlorodifluoromethane | 0.467 | 0.403 | 13.7 | 63 | 0.00 | 1.29 |
| 7 | dichlorodifluoromethane | 0.559 | 0.531 | 5.0 | 66 | 0.00 | 1.28 |
| 8 | chloromethane | 0.211 | 0.211 | 0.0 | 78 | 0.00 | 1.39 |
| 9 | vinyl chloride | 0.685 | 0.753 | -9.9 | 79 | 0.00 | 1.46 |
| 10 | bromomethane | 0.476 | 0.564 | -18.5 | 85 | 0.00 | 1.63 |
| 11 | chloroethane | 0.411 | 0.558 | -35.8# | 89 | 0.00 | 1.69 |
| 12 | trichlorofluoromethane | 1.014 | 1.760 | -73.6# | 114 | 0.00 | 1.82 |
| 13 | 1,3-butadiene | 0.628 | 0.620 | 1.3 | 76 | 0.00 | 1.48 |
| 14 | ethyl ether | 0.240 | 0.422 | -75.8# | 120 | 0.00 | 1.96 |
| 15 | acrolein | 0.106 | 0.175 | -65.1# | 118 | 0.00 | 2.03 |
| 16 | freon 113 | 0.402 | 0.374 | 7.0 | 66 | 0.00 | 2.09 |
| 17 | 1,1-dichloroethene | 0.609 | 0.607 | 0.3 | 69 | 0.00 | 2.10 |
| 18 | acetone | 0.064 | 0.068 | -6.3 | 79 | 0.00 | 2.10 |
| 19 | acetonitrile | 0.083 | 0.095 | -14.5 | 86 | 0.00 | 2.24 |
| | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | iodomethane | 50.000 | 45.852 | 8.3 | 58 | 0.00 | 2.18 |
| | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | carbon disulfide | 1.113 | 0.978 | 12.1 | 66 | 0.00 | 2.23 |
| 22 | methylene chloride | 0.454 | 0.423 | 6.8 | 72 | 0.00 | 2.34 |
| 23 | methyl acetate | 0.116 | 0.115 | 0.9 | 71 | 0.00 | 2.26 |
| 24 | methyl tert butyl ether | 1.232 | 1.245 | -1.1 | 70 | 0.00 | 2.48 |
| 25 | trans-1,2-dichloroethene | 0.430 | 0.423 | 1.6 | 69 | 0.00 | 2.49 |
| 26 | hexane | 0.238 | 0.219 | 8.0 | 64 | 0.00 | 2.63 |
| 27 | di-isopropyl ether | 1.218 | 1.289 | -5.8 | 74 | 0.00 | 2.71 |
| 28 | ethyl tert-butyl ether | 1.211 | 1.200 | 0.9 | 69 | 0.00 | 2.91 |
| 29 | 1,1-dichloroethane | 0.736 | 0.754 | -2.4 | 71 | 0.00 | 2.72 |
| 30 | chloroprene | 0.550 | 0.547 | 0.5 | 69 | 0.00 | 2.76 |
| 31 | acrylonitrile | 0.226 | 0.251 | -11.1 | 79 | 0.00 | 2.45 |
| 32 | vinyl acetate | 0.100 | 0.103 | -3.0 | 69 | 0.00 | 2.69 |
| 33 | ethyl acetate | 0.108 | 0.118 | -9.3 | 76 | 0.00 | 3.01 |
| 34 | 2-butanone | 0.087 | 0.097 | -11.5 | 75 | 0.00 | 3.00 |
| 35 | 2,2-dichloropropane | 0.649 | 0.652 | -0.5 | 71 | 0.00 | 3.03 |
| 36 | cis-1,2-dichloroethene | 0.497 | 0.511 | -2.8 | 70 | 0.00 | 3.03 |
| 37 | propionitrile | 0.101 | 0.119 | -17.8 | 84 | 0.00 | 3.03 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** V2V3773-CC3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V92880.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | | methyl acrylate | 0.116 | 0.116 | 0.0 | 71 | 0.00 | 3.04 |
| 39 | | bromochloromethane | 0.260 | 0.265 | -1.9 | 70 | 0.00 | 3.16 |
| 40 | | tetrahydrofuran | 0.106 | 0.105 | 0.9 | 76 | 0.00 | 3.17 |
| 41 | | chloroform | 0.890 | 0.821 | 7.8 | 70 | 0.00 | 3.20 |
| 42 | S | dibromofluoromethane (s) | 0.499 | 0.505 | -1.2 | 70 | 0.00 | 3.29 |
| 43 | | methacrylonitrile | 0.247 | 0.252 | -2.0 | 72 | 0.00 | 3.12 |
| 44 | | 1,1,1-trichloroethane | 0.755 | 0.720 | 4.6 | 68 | 0.00 | 3.32 |
| 45 | | cyclohexane | 0.590 | 0.555 | 5.9 | 67 | 0.00 | 3.37 |
| 46 | | 1,1-dichloropropene | 0.590 | 0.604 | -2.4 | 71 | 0.00 | 3.41 |
| 47 | | carbon tetrachloride | 0.698 | 0.674 | 3.4 | 66 | 0.00 | 3.41 |
| 48 | | isobutyl alcohol | 0.021 | 0.027 | -28.6# | 91 | 0.00 | 3.41 |
| 49 | | tert-amyl alcohol | 0.044 | 0.040 | 9.1 | 70 | 0.00 | 3.48 |
| 50 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 71 | 0.00 | 3.75 |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.355 | 0.366 | -3.1 | 73 | 0.00 | 3.50 |
| 52 | | n-butyl alcohol | 0.018 | 0.021 | -16.7 | 84 | 0.00 | 3.80 |
| 53 | | benzene | 1.200 | 1.154 | 3.8 | 71 | 0.00 | 3.53 |
| 54 | | tert-amyl methyl ether | 0.940 | 0.919 | 2.2 | 71 | 0.00 | 3.57 |
| 55 | | iso-octane | 0.640 | 0.603 | 5.8 | 69 | 0.00 | 3.58 |
| 56 | | heptane | 0.124 | 0.110 | 11.3 | 65 | 0.00 | 3.67 |
| 57 | | isopropyl acetate | 0.097 | 0.096 | 1.0 | 73 | 0.00 | 3.50 |
| 58 | | 1,2-dichloroethane | 0.500 | 0.462 | 7.6 | 70 | 0.00 | 3.54 |
| 59 | | trichloroethene | 0.355 | 0.330 | 7.0 | 68 | 0.00 | 3.91 |
| 60 | | ethyl acrylate | 0.558 | 0.567 | -1.6 | 75 | 0.00 | 3.93 |
| 61 | | 2-nitropropane | 0.148 | 0.160 | -8.1 | 79 | 0.00 | 4.36 |
| 62 | | 2-chloroethyl vinyl ether | 0.188 | 0.235 | -25.0# | 84 | 0.00 | 4.39 |
| 63 | | methyl methacrylate | 0.122 | 0.121 | 0.8 | 72 | 0.00 | 4.07 |
| 64 | | 1,2-dichloropropane | 0.314 | 0.320 | -1.9 | 74 | 0.00 | 4.07 |
| 65 | | methylcyclohexane | 0.442 | 0.430 | 2.7 | 71 | 0.00 | 4.07 |
| 66 | | dibromomethane | 0.275 | 0.261 | 5.1 | 72 | 0.00 | 4.12 |
| 67 | | bromodichloromethane | 0.483 | 0.452 | 6.4 | 69 | 0.00 | 4.22 |
| 68 | | epichlorohydrin | 0.052 | 0.053 | -1.9 | 74 | 0.00 | 4.43 |
| 69 | | cis-1,3-dichloropropene | 0.503 | 0.500 | 0.6 | 70 | 0.00 | 4.51 |
| 70 | | 4-methyl-2-pentanone | 0.188 | 0.213 | -13.3 | 80 | 0.00 | 4.59 |
| 71 | | 3-methyl-1-butanol | 0.018 | 0.021 | -16.7 | 77 | 0.00 | 4.61 |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 73 | 0.00 | 5.73 |
| 73 | S | toluene-d8 (s) | 1.231 | 1.219 | 1.0 | 74 | 0.00 | 4.70 |
| 74 | | toluene | 0.839 | 0.762 | 9.2 | 70 | 0.00 | 4.74 |
| 75 | | ethyl methacrylate | 0.487 | 0.496 | -1.8 | 73 | 0.00 | 4.91 |
| 76 | | trans-1,3-dichloropropene | 0.500 | 0.494 | 1.2 | 69 | 0.00 | 4.88 |
| 77 | | 1,1,2-trichloroethane | 0.291 | 0.287 | 1.4 | 73 | 0.00 | 5.02 |
| 78 | | 2-hexanone | 0.213 | 0.231 | -8.5 | 79 | 0.00 | 5.16 |
| 79 | | tetrachloroethene | 0.325 | 0.303 | 6.8 | 69 | 0.00 | 5.11 |
| 80 | | 1,3-dichloropropane | 0.536 | 0.528 | 1.5 | 73 | 0.00 | 5.14 |
| 81 | | butyl acetate | 0.270 | 0.277 | -2.6 | 76 | 0.00 | 5.24 |
| 82 | | dibromochloromethane | 0.457 | 0.439 | 3.9 | 69 | 0.00 | 5.30 |
| 83 | | 1,2-dibromoethane | 0.408 | 0.398 | 2.5 | 72 | 0.00 | 5.40 |
| 84 | | n-butyl ether | 1.197 | 1.249 | -4.3 | 75 | 0.00 | 5.81 |
| 85 | | chlorobenzene | 1.010 | 0.932 | 7.7 | 69 | 0.00 | 5.76 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.395 | 0.397 | -0.5 | 69 | 0.00 | 5.82 |
| 87 | | ethylbenzene | 1.586 | 1.555 | 2.0 | 73 | 0.00 | 5.82 |
| 88 | | m,p-xylene | 0.615 | 0.591 | 3.9 | 72 | 0.00 | 5.92 |
| 89 | | o-xylene | 1.216 | 1.183 | 2.7 | 71 | 0.00 | 6.22 |
| 90 | | styrene | 1.009 | 0.986 | 2.3 | 70 | 0.00 | 6.23 |
| 91 | | butyl acrylate | 0.300 | 0.328 | -9.3 | 75 | 0.00 | 6.15 |
| 92 | | n-amyl acetate | 0.267 | 0.270 | -1.1 | 73 | 0.00 | 6.33 |
| 93 | | bromoform | 0.338 | 0.335 | 0.9 | 68 | 0.00 | 6.37 |
| 94 | | isopropylbenzene | 1.443 | 1.383 | 4.2 | 71 | 0.00 | 6.50 |
| 95 | | cis-1,4-dichloro-2-butene | 0.169 | 0.108 | 36.1# | 41# | 0.00 | 6.54 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** V2V3773-CC3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V92880.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 78 | 0.00 | 7.51 |
| 97 | S | 4-bromofluorobenzene (s) | 0.893 | 0.835 | 6.5 | 72 | 0.00 | 6.64 |
| 98 | | bromobenzene | 1.011 | 0.914 | 9.6 | 70 | 0.00 | 6.76 |
| 99 | | 1,1,2,2-tetrachloroethane | 1.241 | 1.165 | 6.1 | 74 | 0.00 | 6.73 |
| 100 | | trans-1,4-dichloro-2-bute | 0.293 | 0.201 | 31.4# | 49# | 0.00 | 6.76 |
| 101 | | 1,2,3-trichloropropane | 0.369 | 0.330 | 10.6 | 70 | 0.00 | 6.78 |
| 102 | | n-propylbenzene | 3.649 | 3.349 | 8.2 | 72 | 0.00 | 6.82 |
| 103 | | 2-chlorotoluene | 0.836 | 0.773 | 7.5 | 71 | 0.00 | 6.90 |
| 104 | | 4-chlorotoluene | 0.861 | 0.787 | 8.6 | 71 | 0.00 | 6.99 |
| 105 | | 1,3,5-trimethylbenzene | 2.443 | 2.268 | 7.2 | 72 | 0.00 | 6.96 |
| 106 | | tert-butylbenzene | 2.130 | 1.914 | 10.1 | 70 | 0.00 | 7.20 |
| 107 | | 1,2,4-trimethylbenzene | 2.550 | 2.306 | 9.6 | 72 | 0.00 | 7.24 |
| 108 | | sec-butylbenzene | 2.886 | 2.672 | 7.4 | 72 | 0.00 | 7.36 |
| 109 | | 1,3-dichlorobenzene | 1.667 | 1.525 | 8.5 | 72 | 0.00 | 7.45 |
| 110 | | p-isopropyltoluene | 2.448 | 2.260 | 7.7 | 71 | 0.00 | 7.47 |
| 111 | | 1,2,3-trimethylbenzene | 2.550 | 2.371 | 7.0 | 75 | 0.00 | 7.54 |
| 112 | | 1,4-dichlorobenzene | 1.739 | 1.566 | 9.9 | 72 | 0.00 | 7.52 |
| 113 | | 1,2-dichlorobenzene | 1.571 | 1.450 | 7.7 | 72 | 0.00 | 7.77 |
| 114 | | benzyl chloride | 1.618 | 1.546 | 4.4 | 69 | 0.00 | 7.60 |
| 115 | | n-butylbenzene | 1.041 | 0.995 | 4.4 | 72 | 0.00 | 7.76 |
| 116 | | hexachloroethane | 0.380 | 0.338 | 11.1 | 66 | 0.00 | 7.96 |
| 117 | | 1,2-dibromo-3-chloropropa | 0.333 | 0.324 | 2.7 | 72 | 0.00 | 8.30 |
| 118 | | 1,3,5-trichlorobenzene | 0.882 | 0.851 | 3.5 | 75 | 0.00 | 8.42 |
| 119 | | 1,2,4-trichlorobenzene | 0.773 | 0.747 | 3.4 | 75 | 0.00 | 8.82 |
| 120 | | hexachlorobutadiene | 0.273 | 0.251 | 8.1 | 75 | 0.00 | 8.91 |
| 121 | | naphthalene | 2.599 | 2.519 | 3.1 | 74 | 0.00 | 8.98 |
| 122 | | 1,2,3-trichlorobenzene | 0.694 | 0.698 | -0.6 | 76 | 0.00 | 9.12 |
| 123 | | 2-methylnaphthalene | 0.883 | 0.768 | 13.0 | 72 | 0.00 | 9.67 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2V92152.D m2v3747.m Wed Sep 28 11:40:08 2022

# Continuing Calibration Summary



**Job Number:** JD52507 **Sample:** V2V3777-CC3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V93000.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\lo...0-3\v2v3777\2v93000.d Vial: 32
Acq On : 29 Sep 2022 9:38 pm Operator: KYLEM
Sample : cc3747-50 Inst : MS2V
Misc : MS62471,V2V3777,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2V3747.M (RTE Integrator)
Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
Last Update : Mon Sep 12 11:37:13 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 87 | 0.00 | 2.32 |
| 2 | ethanol | 0.102 | 0.192 | -88.2# | 182 | 0.00 | 1.89 |
| 3 | tertiary butyl alcohol | 1.558 | 1.391 | 10.7 | 82 | 0.01 | 2.37 |
| 4 | 1,4-dioxane | 0.128 | 0.129 | -0.8 | 87 | 0.00 | 4.10 |
| 5 I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 71 | 0.00 | 3.29 |
| 6 | chlorodifluoromethane | 0.467 | 0.351 | 24.8# | 56 | 0.00 | 1.30 |
| 7 | dichlorodifluoromethane | 0.559 | 0.459 | 17.9 | 59 | 0.01 | 1.29 |
| 8 | chloromethane | 0.211 | 0.168 | 20.4# | 64 | 0.00 | 1.40 |
| 9 | vinyl chloride | 0.685 | 0.641 | 6.4 | 69 | 0.00 | 1.46 |
| 10 | bromomethane | 0.476 | 0.522 | -9.7 | 80 | 0.00 | 1.63 |
| 11 | chloroethane | 0.411 | 0.512 | -24.6# | 83 | 0.00 | 1.69 |
| 12 | trichlorofluoromethane | 1.014 | 1.606 | -58.4# | 106 | 0.01 | 1.83 |
| 13 | 1,3-butadiene | 0.628 | 0.652 | -3.8 | 82 | 0.00 | 1.48 |
| 14 | ethyl ether | 0.240 | 0.421 | -75.4# | 123 | 0.00 | 1.96 |
| 15 | acrolein | 0.106 | 0.178 | -67.9# | 122 | 0.00 | 2.03 |
| 16 | freon 113 | 0.402 | 0.357 | 11.2 | 64 | 0.01 | 2.10 |
| 17 | 1,1-dichloroethene | 0.609 | 0.580 | 4.8 | 68 | 0.00 | 2.10 |
| 18 | acetone | 0.064 | 0.071 | -10.9 | 84 | 0.00 | 2.10 |
| 19 | acetonitrile | 0.083 | 0.096 | -15.7 | 89 | 0.00 | 2.24 |
| | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | iodomethane | 50.000 | 44.989 | 10.0 | 58 | 0.00 | 2.19 |
| | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | carbon disulfide | 1.113 | 0.920 | 17.3 | 64 | 0.01 | 2.24 |
| 22 | methylene chloride | 0.454 | 0.416 | 8.4 | 72 | 0.00 | 2.35 |
| 23 | methyl acetate | 0.116 | 0.121 | -4.3 | 76 | 0.00 | 2.26 |
| 24 | methyl tert butyl ether | 1.232 | 1.280 | -3.9 | 73 | 0.00 | 2.48 |
| 25 | trans-1,2-dichloroethene | 0.430 | 0.413 | 4.0 | 69 | 0.00 | 2.49 |
| 26 | hexane | 0.238 | 0.205 | 13.9 | 62 | 0.00 | 2.63 |
| 27 | di-isopropyl ether | 1.218 | 1.300 | -6.7 | 76 | 0.00 | 2.71 |
| 28 | ethyl tert-butyl ether | 1.211 | 1.231 | -1.7 | 72 | 0.00 | 2.91 |
| 29 | 1,1-dichloroethane | 0.736 | 0.739 | -0.4 | 72 | 0.00 | 2.72 |
| 30 | chloroprene | 0.550 | 0.536 | 2.5 | 69 | 0.00 | 2.76 |
| 31 | acrylonitrile | 0.226 | 0.255 | -12.8 | 82 | 0.01 | 2.46 |
| 32 | vinyl acetate | 0.100 | 0.097 | 3.0 | 66 | 0.00 | 2.70 |
| 33 | ethyl acetate | 0.108 | 0.124 | -14.8 | 82 | 0.00 | 3.01 |
| 34 | 2-butanone | 0.087 | 0.101 | -16.1 | 81 | 0.00 | 3.00 |
| 35 | 2,2-dichloropropane | 0.649 | 0.638 | 1.7 | 71 | 0.00 | 3.04 |
| 36 | cis-1,2-dichloroethene | 0.497 | 0.514 | -3.4 | 72 | 0.00 | 3.03 |
| 37 | propionitrile | 0.101 | 0.124 | -22.8# | 89 | 0.00 | 3.04 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** V2V3777-CC3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V93000.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | | methyl acrylate | 0.116 | 0.122 | -5.2 | 76 | 0.00 | 3.04 |
| 39 | | bromochloromethane | 0.260 | 0.272 | -4.6 | 73 | 0.00 | 3.16 |
| 40 | | tetrahydrofuran | 0.106 | 0.104 | 1.9 | 77 | 0.01 | 3.18 |
| 41 | | chloroform | 0.890 | 0.811 | 8.9 | 71 | 0.00 | 3.20 |
| 42 | S | dibromofluoromethane (s) | 0.499 | 0.502 | -0.6 | 71 | 0.00 | 3.29 |
| 43 | | methacrylonitrile | 0.247 | 0.262 | -6.1 | 77 | 0.00 | 3.12 |
| 44 | | 1,1,1-trichloroethane | 0.755 | 0.704 | 6.8 | 68 | 0.00 | 3.32 |
| 45 | | cyclohexane | 0.590 | 0.484 | 18.0 | 59 | 0.00 | 3.37 |
| 46 | | 1,1-dichloropropene | 0.590 | 0.593 | -0.5 | 71 | 0.00 | 3.41 |
| 47 | | carbon tetrachloride | 0.698 | 0.656 | 6.0 | 66 | 0.00 | 3.41 |
| 48 | | isobutyl alcohol | 0.021 | 0.028 | -33.3# | 95 | 0.00 | 3.41 |
| 49 | | tert-amyl alcohol | 0.044 | 0.043 | 2.3 | 77 | 0.00 | 3.48 |
| 50 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 74 | 0.00 | 3.75 |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.355 | 0.358 | -0.8 | 73 | 0.00 | 3.50 |
| 52 | | n-butyl alcohol | 0.018 | 0.021 | -16.7 | 88 | 0.00 | 3.80 |
| 53 | | benzene | 1.200 | 1.133 | 5.6 | 72 | 0.00 | 3.53 |
| 54 | | tert-amyl methyl ether | 0.940 | 0.922 | 1.9 | 73 | 0.00 | 3.58 |
| 55 | | iso-octane | 0.640 | 0.587 | 8.3 | 69 | 0.00 | 3.58 |
| 56 | | heptane | 0.124 | 0.107 | 13.7 | 65 | 0.00 | 3.67 |
| 57 | | isopropyl acetate | 0.097 | 0.099 | -2.1 | 77 | 0.00 | 3.50 |
| 58 | | 1,2-dichloroethane | 0.500 | 0.470 | 6.0 | 74 | 0.00 | 3.54 |
| 59 | | trichloroethene | 0.355 | 0.326 | 8.2 | 69 | 0.00 | 3.91 |
| 60 | | ethyl acrylate | 0.558 | 0.576 | -3.2 | 79 | 0.00 | 3.93 |
| 61 | | 2-nitropropane | 0.148 | 0.162 | -9.5 | 83 | 0.00 | 4.36 |
| 62 | | 2-chloroethyl vinyl ether | 0.188 | 0.209 | -11.2 | 77 | 0.00 | 4.39 |
| 63 | | methyl methacrylate | 0.122 | 0.121 | 0.8 | 74 | 0.00 | 4.07 |
| 64 | | 1,2-dichloropropane | 0.314 | 0.317 | -1.0 | 75 | 0.00 | 4.07 |
| 65 | | methylcyclohexane | 0.442 | 0.412 | 6.8 | 70 | 0.00 | 4.07 |
| 66 | | dibromomethane | 0.275 | 0.263 | 4.4 | 74 | 0.00 | 4.12 |
| 67 | | bromodichloromethane | 0.483 | 0.454 | 6.0 | 71 | 0.00 | 4.22 |
| 68 | | epichlorohydrin | 0.052 | 0.054 | -3.8 | 77 | 0.00 | 4.43 |
| 69 | | cis-1,3-dichloropropene | 0.503 | 0.492 | 2.2 | 71 | 0.00 | 4.51 |
| 70 | | 4-methyl-2-pentanone | 0.188 | 0.216 | -14.9 | 83 | 0.00 | 4.59 |
| 71 | | 3-methyl-1-butanol | 0.018 | 0.021 | -16.7 | 80 | 0.00 | 4.61 |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 75 | 0.00 | 5.73 |
| 73 | S | toluene-d8 (s) | 1.231 | 1.212 | 1.5 | 75 | 0.00 | 4.70 |
| 74 | | toluene | 0.839 | 0.763 | 9.1 | 72 | 0.00 | 4.74 |
| 75 | | ethyl methacrylate | 0.487 | 0.491 | -0.8 | 75 | 0.00 | 4.91 |
| 76 | | trans-1,3-dichloropropene | 0.500 | 0.491 | 1.8 | 71 | 0.00 | 4.88 |
| 77 | | 1,1,2-trichloroethane | 0.291 | 0.291 | 0.0 | 76 | 0.00 | 5.03 |
| 78 | | 2-hexanone | 0.213 | 0.235 | -10.3 | 83 | 0.00 | 5.16 |
| 79 | | tetrachloroethene | 0.325 | 0.298 | 8.3 | 69 | 0.00 | 5.11 |
| 80 | | 1,3-dichloropropane | 0.536 | 0.534 | 0.4 | 75 | 0.00 | 5.14 |
| 81 | | butyl acetate | 0.270 | 0.278 | -3.0 | 78 | 0.00 | 5.24 |
| 82 | | dibromochloromethane | 0.457 | 0.435 | 4.8 | 70 | 0.00 | 5.30 |
| 83 | | 1,2-dibromoethane | 0.408 | 0.406 | 0.5 | 76 | 0.00 | 5.40 |
| 84 | | n-butyl ether | 1.197 | 1.208 | -0.9 | 74 | 0.00 | 5.81 |
| 85 | | chlorobenzene | 1.010 | 0.924 | 8.5 | 71 | 0.00 | 5.76 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.395 | 0.401 | -1.5 | 72 | 0.00 | 5.82 |
| 87 | | ethylbenzene | 1.586 | 1.520 | 4.2 | 73 | 0.00 | 5.82 |
| 88 | | m,p-xylene | 0.615 | 0.581 | 5.5 | 72 | 0.00 | 5.92 |
| 89 | | o-xylene | 1.216 | 1.158 | 4.8 | 71 | 0.00 | 6.22 |
| 90 | | styrene | 1.009 | 0.973 | 3.6 | 71 | 0.00 | 6.23 |
| 91 | | butyl acrylate | 0.300 | 0.326 | -8.7 | 77 | 0.00 | 6.15 |
| 92 | | n-amyl acetate | 0.267 | 0.268 | -0.4 | 74 | 0.00 | 6.33 |
| 93 | | bromoform | 0.338 | 0.329 | 2.7 | 69 | 0.00 | 6.37 |
| 94 | | isopropylbenzene | 1.443 | 1.355 | 6.1 | 71 | 0.00 | 6.50 |
| 95 | | cis-1,4-dichloro-2-butene | 0.169 | 0.081 | 52.1# | 32# | 0.00 | 6.54 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** V2V3777-CC3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V93000.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 77 | 0.00 | 7.51 |
| 97 | S | 4-bromofluorobenzene (s) | 0.893 | 0.837 | 6.3 | 72 | 0.00 | 6.64 |
| 98 | | bromobenzene | 1.011 | 0.927 | 8.3 | 71 | 0.00 | 6.76 |
| 99 | | 1,1,2,2-tetrachloroethane | 1.241 | 1.211 | 2.4 | 77 | 0.00 | 6.73 |
| 100 | | trans-1,4-dichloro-2-bute | 0.293 | 0.159 | 45.7# | 38# | 0.00 | 6.76 |
| 101 | | 1,2,3-trichloropropane | 0.369 | 0.351 | 4.9 | 74 | 0.00 | 6.78 |
| 102 | | n-propylbenzene | 3.649 | 3.329 | 8.8 | 71 | 0.00 | 6.82 |
| 103 | | 2-chlorotoluene | 0.836 | 0.772 | 7.7 | 71 | 0.00 | 6.90 |
| 104 | | 4-chlorotoluene | 0.861 | 0.790 | 8.2 | 70 | 0.00 | 6.99 |
| 105 | | 1,3,5-trimethylbenzene | 2.443 | 2.239 | 8.4 | 71 | 0.00 | 6.96 |
| 106 | | tert-butylbenzene | 2.130 | 1.898 | 10.9 | 69 | 0.00 | 7.20 |
| 107 | | 1,2,4-trimethylbenzene | 2.550 | 2.290 | 10.2 | 72 | 0.00 | 7.24 |
| 108 | | sec-butylbenzene | 2.886 | 2.638 | 8.6 | 71 | 0.00 | 7.36 |
| 109 | | 1,3-dichlorobenzene | 1.667 | 1.524 | 8.6 | 72 | 0.00 | 7.45 |
| 110 | | p-isopropyltoluene | 2.448 | 2.209 | 9.8 | 70 | 0.00 | 7.47 |
| 111 | | 1,2,3-trimethylbenzene | 2.550 | 2.334 | 8.5 | 73 | 0.00 | 7.54 |
| 112 | | 1,4-dichlorobenzene | 1.739 | 1.565 | 10.0 | 72 | 0.00 | 7.52 |
| 113 | | 1,2-dichlorobenzene | 1.571 | 1.452 | 7.6 | 72 | 0.00 | 7.77 |
| 114 | | benzyl chloride | 1.618 | 1.532 | 5.3 | 68 | 0.00 | 7.60 |
| 115 | | n-butylbenzene | 1.041 | 0.979 | 6.0 | 71 | 0.00 | 7.75 |
| 116 | | hexachloroethane | 0.380 | 0.332 | 12.6 | 64 | 0.00 | 7.96 |
| 117 | | 1,2-dibromo-3-chloropropa | 0.333 | 0.336 | -0.9 | 74 | 0.00 | 8.29 |
| 118 | | 1,3,5-trichlorobenzene | 0.882 | 0.852 | 3.4 | 75 | 0.00 | 8.42 |
| 119 | | 1,2,4-trichlorobenzene | 0.773 | 0.760 | 1.7 | 75 | 0.00 | 8.82 |
| 120 | | hexachlorobutadiene | 0.273 | 0.251 | 8.1 | 74 | 0.00 | 8.91 |
| 121 | | naphthalene | 2.599 | 2.578 | 0.8 | 75 | 0.00 | 8.98 |
| 122 | | 1,2,3-trichlorobenzene | 0.694 | 0.695 | -0.1 | 75 | 0.00 | 9.12 |
| 123 | | 2-methylnaphthalene | 0.883 | 0.765 | 13.4 | 71 | 0.00 | 9.67 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2V92152.D M2V3747.M Mon Oct 03 00:47:51 2022

# Continuing Calibration Summary



**Job Number:** JD52507 **Sample:** V2V3782-CC3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V93125.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\KI...- due today\2v93125.d Vial: 4
Acq On : 3 Oct 2022 11:49 am Operator: taylors
Sample : cc3747-20 Inst : MS2V
Misc : MS62619,V2V3782,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\m2v3747.m (RTE Integrator)
Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
Last Update : Mon Sep 12 11:37:13 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 2.32 |
| 2 | ethanol | 0.102 | 0.116 | -13.7 | 123 | 0.00 | 1.88 |
| 3 | tertiary butyl alcohol | 1.558 | 1.406 | 9.8 | 99 | 0.00 | 2.36 |
| 4 | 1,4-dioxane | 0.128 | 0.122 | 4.7 | 96 | 0.00 | 4.10 |
| 5 I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 77 | 0.00 | 3.29 |
| 6 | chlorodifluoromethane | 0.467 | 0.249 | 46.7# | 44# | 0.00 | 1.29 |
| 7 | dichlorodifluoromethane | 0.559 | 0.532 | 4.8 | 75 | 0.00 | 1.28 |
| 8 | chloromethane | 0.211 | 0.249 | -18.0 | 102 | 0.00 | 1.39 |
| 9 | vinyl chloride | 0.685 | 0.950 | -38.7# | 113 | 0.00 | 1.45 |
| 10 | bromomethane | 0.476 | 0.758 | -59.2# | 129 | 0.00 | 1.63 |
| 11 | chloroethane | 0.411 | 0.658 | -60.1# | 126 | 0.00 | 1.69 |
| 12 | trichlorofluoromethane | 1.014 | 0.881 | 13.1 | 76 | 0.00 | 1.82 |
| 13 | 1,3-butadiene | 0.628 | 0.800 | -27.4# | 106 | 0.00 | 1.47 |
| 14 | ethyl ether | 0.240 | 0.229 | 4.6 | 77 | 0.00 | 1.95 |
| 15 | acrolein | 0.106 | 0.120 | -13.2 | 90 | 0.00 | 2.03 |
| 16 | freon 113 | 0.402 | 0.350 | 12.9 | 72 | 0.00 | 2.09 |
| 17 | 1,1-dichloroethene | 0.609 | 0.567 | 6.9 | 78 | 0.00 | 2.09 |
| 18 | acetone | 0.064 | 0.072 | -12.5 | 93 | 0.00 | 2.10 |
| 19 | acetonitrile | 0.083 | 0.103 | -24.1# | 101 | 0.00 | 2.24 |
| | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | iodomethane | 20.000 | 8.652 | 56.7# | 31 | 0.00 | 2.18 |
| | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | carbon disulfide | 1.113 | 0.902 | 19.0 | 69 | 0.00 | 2.23 |
| 22 | methylene chloride | 0.454 | 0.439 | 3.3 | 84 | 0.00 | 2.34 |
| 23 | methyl acetate | 0.116 | 0.121 | -4.3 | 86 | 0.00 | 2.25 |
| 24 | methyl tert butyl ether | 1.232 | 1.327 | -7.7 | 88 | 0.00 | 2.47 |
| 25 | trans-1,2-dichloroethene | 0.430 | 0.429 | 0.2 | 82 | 0.00 | 2.48 |
| 26 | hexane | 0.238 | 0.241 | -1.3 | 87 | 0.00 | 2.63 |
| 27 | di-isopropyl ether | 1.218 | 1.390 | -14.1 | 93 | 0.00 | 2.71 |
| 28 | ethyl tert-butyl ether | 1.211 | 1.316 | -8.7 | 88 | 0.00 | 2.91 |
| 29 | 1,1-dichloroethane | 0.736 | 0.806 | -9.5 | 90 | 0.00 | 2.71 |
| 30 | chloroprene | 0.550 | 0.592 | -7.6 | 88 | 0.00 | 2.76 |
| 31 | acrylonitrile | 0.226 | 0.254 | -12.4 | 87 | 0.00 | 2.45 |
| 32 | vinyl acetate | 0.100 | 0.103 | -3.0 | 86 | 0.00 | 2.69 |
| 33 | ethyl acetate | 0.108 | 0.119 | -10.2 | 90 | 0.00 | 3.00 |
| 34 | 2-butanone | 0.087 | 0.102 | -17.2 | 91 | 0.00 | 3.00 |
| 35 | 2,2-dichloropropane | 0.649 | 0.721 | -11.1 | 94 | 0.00 | 3.03 |
| 36 | cis-1,2-dichloroethene | 0.497 | 0.533 | -7.2 | 88 | 0.00 | 3.02 |
| 37 | propionitrile | 0.101 | 0.128 | -26.7# | 100 | 0.00 | 3.03 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** V2V3782-CC3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V93125.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | | methyl acrylate | 0.116 | 0.125 | -7.8 | 90 | 0.00 | 3.04 |
| 39 | | bromochloromethane | 0.260 | 0.276 | -6.2 | 80 | 0.00 | 3.15 |
| 40 | | tetrahydrofuran | 0.106 | 0.110 | -3.8 | 88 | 0.00 | 3.17 |
| 41 | | chloroform | 0.890 | 0.879 | 1.2 | 87 | 0.00 | 3.20 |
| 42 | S | dibromofluoromethane (s) | 0.499 | 0.533 | -6.8 | 82 | 0.00 | 3.29 |
| 43 | | methacrylonitrile | 0.247 | 0.283 | -14.6 | 90 | 0.00 | 3.12 |
| 44 | | 1,1,1-trichloroethane | 0.755 | 0.755 | 0.0 | 84 | 0.00 | 3.32 |
| 45 | | cyclohexane | 0.590 | 0.573 | 2.9 | 80 | 0.00 | 3.37 |
| 46 | | 1,1-dichloropropene | 0.590 | 0.620 | -5.1 | 87 | 0.00 | 3.40 |
| 47 | | carbon tetrachloride | 0.698 | 0.664 | 4.9 | 80 | 0.00 | 3.41 |
| 48 | | isobutyl alcohol | 0.021 | 0.030 | -42.9# | 108 | 0.00 | 3.40 |
| 49 | | tert-amyl alcohol | 0.044 | 0.047 | -6.8 | 87 | 0.00 | 3.47 |
| 50 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 82 | 0.00 | 3.75 |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.355 | 0.372 | -4.8 | 87 | 0.00 | 3.49 |
| 52 | | n-butyl alcohol | 0.018 | 0.021 | -16.7 | 100 | 0.00 | 3.79 |
| 53 | | benzene | 1.200 | 1.190 | 0.8 | 88 | 0.00 | 3.52 |
| 54 | | tert-amyl methyl ether | 0.940 | 0.962 | -2.3 | 89 | 0.00 | 3.57 |
| 55 | | iso-octane | 0.640 | 0.617 | 3.6 | 85 | 0.00 | 3.57 |
| 56 | | heptane | 0.124 | 0.122 | 1.6 | 87 | 0.00 | 3.67 |
| 57 | | isopropyl acetate | 0.097 | 0.103 | -6.2 | 90 | 0.00 | 3.50 |
| 58 | | 1,2-dichloroethane | 0.500 | 0.489 | 2.2 | 86 | 0.00 | 3.54 |
| 59 | | trichloroethene | 0.355 | 0.342 | 3.7 | 87 | 0.00 | 3.90 |
| 60 | | ethyl acrylate | 0.558 | 0.604 | -8.2 | 94 | 0.00 | 3.92 |
| 61 | | 2-nitropropane | 0.148 | 0.117 | 20.9# | 73 | 0.00 | 4.35 |
| 62 | | 2-chloroethyl vinyl ether | 0.188 | 0.215 | -14.4 | 94 | 0.00 | 4.39 |
| 63 | | methyl methacrylate | 0.122 | 0.119 | 2.5 | 86 | 0.00 | 4.07 |
| 64 | | 1,2-dichloropropane | 0.314 | 0.335 | -6.7 | 96 | 0.00 | 4.07 |
| 65 | | methylcyclohexane | 0.442 | 0.409 | 7.5 | 83 | 0.00 | 4.06 |
| 66 | | dibromomethane | 0.275 | 0.271 | 1.5 | 89 | 0.00 | 4.12 |
| 67 | | bromodichloromethane | 0.483 | 0.476 | 1.4 | 89 | 0.00 | 4.22 |
| 68 | | epichlorohydrin | 0.052 | 0.056 | -7.7 | 92 | 0.00 | 4.42 |
| 69 | | cis-1,3-dichloropropene | 0.503 | 0.514 | -2.2 | 88 | 0.00 | 4.51 |
| 70 | | 4-methyl-2-pentanone | 0.188 | 0.219 | -16.5 | 98 | 0.00 | 4.59 |
| 71 | | 3-methyl-1-butanol | 0.018 | 0.021 | -16.7 | 93 | 0.00 | 4.61 |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 82 | 0.00 | 5.73 |
| 73 | S | toluene-d8 (s) | 1.231 | 1.275 | -3.6 | 85 | 0.00 | 4.69 |
| 74 | | toluene | 0.839 | 0.808 | 3.7 | 87 | 0.00 | 4.74 |
| 75 | | ethyl methacrylate | 0.487 | 0.541 | -11.1 | 94 | 0.00 | 4.90 |
| 76 | | trans-1,3-dichloropropene | 0.500 | 0.524 | -4.8 | 88 | 0.00 | 4.88 |
| 77 | | 1,1,2-trichloroethane | 0.291 | 0.309 | -6.2 | 92 | 0.00 | 5.02 |
| 78 | | 2-hexanone | 0.213 | 0.250 | -17.4 | 98 | 0.00 | 5.16 |
| 79 | | tetrachloroethene | 0.325 | 0.303 | 6.8 | 83 | 0.00 | 5.11 |
| 80 | | 1,3-dichloropropane | 0.536 | 0.567 | -5.8 | 92 | 0.00 | 5.14 |
| 81 | | butyl acetate | 0.270 | 0.313 | -15.9 | 99 | 0.00 | 5.24 |
| 82 | | dibromochloromethane | 0.457 | 0.444 | 2.8 | 84 | 0.00 | 5.30 |
| 83 | | 1,2-dibromoethane | 0.408 | 0.418 | -2.5 | 89 | 0.00 | 5.39 |
| 84 | | n-butyl ether | 1.197 | 1.347 | -12.5 | 95 | 0.00 | 5.80 |
| 85 | | chlorobenzene | 1.010 | 0.960 | 5.0 | 84 | 0.00 | 5.76 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.395 | 0.382 | 3.3 | 82 | 0.00 | 5.81 |
| 87 | | ethylbenzene | 1.586 | 1.590 | -0.3 | 90 | 0.00 | 5.82 |
| 88 | | m,p-xylene | 0.615 | 0.605 | 1.6 | 88 | 0.00 | 5.92 |
| 89 | | o-xylene | 1.216 | 1.207 | 0.7 | 87 | 0.00 | 6.22 |
| 90 | | styrene | 1.009 | 1.004 | 0.5 | 85 | 0.00 | 6.23 |
| 91 | | butyl acrylate | 0.300 | 0.367 | -22.3# | 98 | 0.00 | 6.15 |
| 92 | | n-amyl acetate | 0.267 | 0.302 | -13.1 | 95 | 0.00 | 6.33 |
| 93 | | bromoform | 0.338 | 0.312 | 7.7 | 77 | 0.00 | 6.37 |
| 94 | | isopropylbenzene | 1.443 | 1.433 | 0.7 | 87 | 0.00 | 6.49 |
| 95 | | cis-1,4-dichloro-2-butene | 0.169 | 0.069 | 59.2# | 34# | 0.00 | 6.54 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** V2V3782-CC3747
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2V93125.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 96 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 83 | 0.00 | 7.51 |
| 97 | S | 4-bromofluorobenzene (s) | 0.893 | 0.867 | 2.9 | 82 | 0.00 | 6.64 |
| 98 | | bromobenzene | 1.011 | 0.918 | 9.2 | 83 | 0.00 | 6.75 |
| 99 | | 1,1,2,2-tetrachloroethane | 1.241 | 1.284 | -3.5 | 93 | 0.00 | 6.73 |
| 100 | | trans-1,4-dichloro-2-bute | 0.293 | 0.138 | 52.9# | 41# | 0.00 | 6.76 |
| 101 | | 1,2,3-trichloropropane | 0.369 | 0.366 | 0.8 | 87 | 0.00 | 6.78 |
| 102 | | n-propylbenzene | 3.649 | 3.588 | 1.7 | 88 | 0.00 | 6.82 |
| 103 | | 2-chlorotoluene | 0.836 | 0.794 | 5.0 | 84 | 0.00 | 6.90 |
| 104 | | 4-chlorotoluene | 0.861 | 0.837 | 2.8 | 84 | 0.00 | 6.99 |
| 105 | | 1,3,5-trimethylbenzene | 2.443 | 2.374 | 2.8 | 85 | 0.00 | 6.96 |
| 106 | | tert-butylbenzene | 2.130 | 2.003 | 6.0 | 84 | 0.00 | 7.20 |
| 107 | | 1,2,4-trimethylbenzene | 2.550 | 2.462 | 3.5 | 89 | 0.00 | 7.24 |
| 108 | | sec-butylbenzene | 2.886 | 2.838 | 1.7 | 87 | 0.00 | 7.36 |
| 109 | | 1,3-dichlorobenzene | 1.667 | 1.560 | 6.4 | 85 | 0.00 | 7.45 |
| 110 | | p-isopropyltoluene | 2.448 | 2.320 | 5.2 | 83 | 0.00 | 7.47 |
| 111 | | 1,2,3-trimethylbenzene | 2.550 | 2.487 | 2.5 | 87 | 0.00 | 7.54 |
| 112 | | 1,4-dichlorobenzene | 1.739 | 1.589 | 8.6 | 83 | 0.00 | 7.52 |
| 113 | | 1,2-dichlorobenzene | 1.571 | 1.454 | 7.4 | 82 | 0.00 | 7.77 |
| 114 | | benzyl chloride | 1.618 | 1.815 | -12.2 | 93 | 0.00 | 7.60 |
| 115 | | n-butylbenzene | 1.041 | 1.046 | -0.5 | 88 | 0.00 | 7.75 |
| 116 | | hexachloroethane | 0.380 | 0.294 | 22.6# | 71 | 0.00 | 7.96 |
| 117 | | 1,2-dibromo-3-chloropropa | 0.333 | 0.307 | 7.8 | 78 | 0.00 | 8.30 |
| 118 | | 1,3,5-trichlorobenzene | 0.882 | 0.830 | 5.9 | 81 | 0.00 | 8.42 |
| 119 | | 1,2,4-trichlorobenzene | 0.773 | 0.710 | 8.2 | 80 | 0.00 | 8.82 |
| 120 | | hexachlorobutadiene | 0.273 | 0.244 | 10.6 | 77 | 0.00 | 8.91 |
| 121 | | naphthalene | 2.599 | 2.330 | 10.4 | 78 | 0.00 | 8.98 |
| 122 | | 1,2,3-trichlorobenzene | 0.694 | 0.630 | 9.2 | 75 | 0.00 | 9.12 |
| 123 | | 2-methylnaphthalene | 0.883 | 0.621 | 29.7# | 62 | 0.00 | 9.67 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2V92150.D m2v3747.m Mon Oct 03 16:28:31 2022

# Initial Calibration Summary



**Job Number:** JD52507 **Sample:** VL10355-ICC10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342975.D
**Project:** EPT, Ithaca, NY

Response Factor Report GCMSL

Method : C:\MSDCHEM\1\METHODS\ML10355.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

Calibration Files
8 =L342973.D 0.5 =L342969.D 4 =L342972.D 50 =L342975.D
100 =L342976.D 1 =L342970.D 200 =L342977.D 20 =L342974.D
2 =L342971.D 0.2 =L342968.D = =

| Compound | 8 | 0.5 | 4 | 50 | 100 | 1 | 200 | 20 | 2 | 0.2 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) I tert butyl alcohol-d9 | ISTD | | | | | | | | | | | |
| 2) 1,4-dioxane | 0.126 | 0.161 | 0.120 | 0.127 | 0.121 | 0.125 | 0.115 | 0.148 | | | 0.130 | 12.05 |
| 3) ethanol | 0.118 | 0.149 | 0.115 | 0.118 | 0.146 | 0.097 | 0.113 | 0.142 | | | 0.125 | 14.94 |
| 4) tertiary butyl alcohol | 1.393 | 1.897 | 1.395 | 1.410 | 1.708 | 1.354 | 1.344 | 1.758 | | | 1.532 | 14.28 |
| 5) I pentafluorobenzene | ISTD | | | | | | | | | | | |
| 6) chlorodifluoromethane | 0.521 | 0.607 | 0.558 | 0.548 | 0.553 | 0.520 | 0.486 | 0.551 | 0.613 | 0.635 | 0.559 | 8.32 |
| 7) dichlorodifluoromethane | 0.719 | 0.772 | 0.716 | 0.817 | 0.832 | 1.002 | 0.784 | 0.805 | 0.713 | 1.004 | 0.816 | 13.13 |
| 8) chloromethane | 0.508 | 0.523 | 0.539 | 0.558 | 0.664 | 0.509 | 0.544 | 0.521 | | | 0.546 | 9.33 |
| 9) vinyl chloride | 0.614 | 0.768 | 0.594 | 0.654 | 0.662 | 0.802 | 0.604 | 0.658 | 0.627 | 0.747 | 0.673 | 10.92 |
| 10) 1,3-butadiene | 0.712 | 0.796 | 0.663 | 0.599 | 0.509 | 0.691 | | | | | 0.662 | 14.89 |
| 11) bromomethane | 0.278 | 0.264 | 0.276 | 0.264 | 0.257 | 0.343 | | | | | 0.280 | 11.28 |
| 12) chloroethane | 0.354 | 0.464 | 0.326 | 0.370 | 0.373 | 0.550 | 0.304 | 0.360 | 0.395 | 0.440 | 0.394 | 18.54 |
| 13) trichlorofluoromethane | 0.906 | 0.984 | 0.908 | 0.933 | 0.944 | 1.143 | 0.855 | 0.944 | 0.952 | 0.843 | 0.941 | 8.84 |
| 14) ethyl ether | 0.345 | 0.341 | 0.352 | 0.344 | 0.252 | 0.316 | 0.346 | 0.334 | | | 0.329 | 9.93 |
| 15) acrolein | 0.108 | 0.110 | 0.118 | 0.120 | 0.120 | 0.115 | 0.146 | | | | 0.119 | 10.46 |
| 16) freon 113 | 0.359 | 0.401 | 0.383 | 0.382 | 0.371 | 0.344 | 0.338 | 0.372 | 0.385 | | 0.371 | 5.53 |
| 17) 1,1-dichloroethene | 0.454 | 0.541 | 0.463 | 0.464 | 0.441 | 0.406 | 0.401 | 0.474 | 0.510 | | 0.462 | 9.73 |
| 18) acetone | 0.080 | 0.093 | 0.080 | 0.076 | 0.072 | 0.071 | 0.081 | 0.095 | | | 0.081 | 11.14 |
| 19) acetonitrile | 0.052 | 0.050 | 0.052 | 0.050 | 0.060 | 0.047 | 0.054 | 0.056 | | | 0.053 | 7.90 |
| 20) iodomethane | 0.270 | 0.239 | 0.432 | 0.472 | 0.416 | 0.353 | 0.215 | | | | 0.342 | 29.90 |
| ----- Linear regression ----- Coefficient = 0.9941 | | | | | | | | | | | | |
| Response Ratio = -0.01368 + 0.43624 *A | | | | | | | | | | | | |
| 21) iso-butyl alcohol | 0.053 | 0.069 | 0.047 | 0.044 | 0.051 | | | | | | 0.053 | 18.51 |

# Initial Calibration Summary

**Job Number:** JD52507 **Sample:** VL10355-ICC10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342975.D
**Project:** EPT, Ithaca, NY

22) carbon disulfide
1.404 1.468 1.357 1.333 1.458 1.233 1.409 1.700 1.420 9.56
23) methylene chloride
0.537 0.584 0.510 0.512 0.528 0.470 0.506 0.653 0.537 10.54
24) methyl acetate
0.154 0.191 0.162 0.157 0.146 0.161 0.168 0.163 8.84
25) methyl tert butyl ether
1.755 1.915 1.860 1.764 1.668 1.608 1.456 1.754 1.945 1.747 8.84
26) trans-1,2-dichloroethene
0.496 0.590 0.520 0.491 0.468 0.421 0.435 0.492 0.581 0.499 11.60
27) hexane
0.677 0.775 0.691 0.696 0.687 0.737 0.632 0.693 0.734 0.702 5.85
28) di-isopropyl ether
1.423 1.597 1.561 1.418 1.338 1.254 1.168 1.428 1.576 1.418 10.39
29) ethyl tert-butyl ether
1.697 1.764 1.749 1.680 1.619 1.439 1.451 1.674 1.882 1.662 8.63
30) 2-butanone
0.121 0.139 0.140 0.123 0.120 0.105 0.114 0.122 0.136 0.125 9.40
31) 1,1-dichloroethane
0.866 0.925 0.971 0.878 0.842 0.780 0.745 0.870 1.015 0.877 9.74
32) chloroprene
0.717 0.843 0.715 0.692 0.684 0.654 0.619 0.712 0.784 0.713 9.34
33) acrylonitrile
0.265 0.275 0.288 0.290 0.325 0.283 0.292 0.288 0.288 6.02
34) vinyl acetate
0.154 0.126 0.160 0.157 0.142 0.153 0.167 0.151 8.83
35) ethyl acetate
0.130 0.138 0.117 0.115 0.109 0.124 0.151 0.126 11.48
36) 2,2-dichloropropane
0.853 0.925 0.811 0.758 0.895 0.661 0.870 1.051 0.853 13.60
37) cis-1,2-dichloroethene
0.562 0.630 0.581 0.545 0.523 0.500 0.470 0.554 0.658 0.627 0.565 10.61
38) propionitrile
0.118 0.136 0.116 0.109 0.114 0.099 0.123 0.138 0.119 10.95
39) methyl acrylate
0.142 0.170 0.139 0.132 0.126 0.146 0.172 0.147 12.16
40) bromochloromethane
0.252 0.270 0.270 0.248 0.242 0.230 0.220 0.234 0.248 0.246 6.89
41) tetrahydrofuran
0.144 0.109 0.144 0.142 0.141 0.133 0.136 0.150 0.154 0.139 9.42
42) chloroform
1.044 1.086 0.954 0.903 1.065 0.821 0.964 1.198 1.004 11.75
43) dibromofluoromethane (s)
0.454 0.444 0.453 0.458 0.455 0.446 0.445 0.459 0.459 0.443 0.452 1.43
44) methacrylonitrile
0.334 0.393 0.334 0.330 0.328 0.324 0.333 0.419 0.349 10.23
45) 1,1,1-trichloroethane
0.842 0.939 0.862 0.857 0.846 0.779 0.779 0.842 1.000 0.861 8.20
46) cyclohexane
0.748 0.817 0.779 0.748 0.750 0.999 0.704 0.767 0.807 0.801 0.792 10.14
47) 1,1-dichloropropene
0.675 0.729 0.652 0.679 0.650 0.674 0.605 0.693 0.762 0.757 0.688 7.18
48) carbon tetrachloride
0.708 0.805 0.774 0.673 0.662 0.643 0.603 0.724 0.829 0.713 10.76
49) isopropyl acetate
0.168 0.188 0.170 0.170 0.161 0.172 0.219 0.179 11.10
50) tert amyl alcohol
0.060 0.073 0.049 0.047 0.054 0.057 18.80

51) I 1,4-difluorobenzene ----------ISTD----------

52) 1,2-dichloroethane-d4 (s)
0.383 0.381 0.381 0.357 0.333 0.374 0.316 0.365 0.380 0.379 0.365 6.34
53) tert-amyl methyl ether
1.137 1.300 1.061 1.024 1.059 0.908 1.113 1.305 1.113 12.14
54) 2,2,4-trimethylpentane
0.877 0.923 0.851 0.810 0.877 0.742 0.900 1.098 0.885 11.65
55) n-butyl alcohol
0.023 0.024 0.030 0.023 0.021 0.027 0.020 0.024 0.030 0.025 15.19
56) benzene
1.287 1.447 1.415 1.239 1.197 1.249 1.064 1.303 1.514 1.302 10.63
57) heptane
0.184 0.252 0.193 0.193 0.195 0.204 0.186 0.191 0.210 0.233 0.204 10.84
58) 1,2-dichloroethane
0.497 0.544 0.479 0.449 0.506 0.405 0.488 0.562 0.491 10.17
59) trichloroethene
0.343 0.466 0.372 0.360 0.354 0.310 0.331 0.364 0.413 0.368 12.61
60) ethyl acrylate
0.586 0.709 0.594 0.559 0.588 0.509 0.600 0.737 0.610 12.38
61) 2-nitropropane
0.172 0.229 0.178 0.156 0.156 0.180 0.179 15.04
62) 2-chloroethyl vinyl ether
0.209 0.222 0.239 0.216 0.205 0.185 0.187 0.213 0.242 0.213 9.23
63) methyl methacrylate
0.128 0.167 0.139 0.133 0.127 0.140 0.160 0.142 11.06
64) 1,2-dichloropropane
0.318 0.351 0.314 0.307 0.315 0.280 0.323 0.362 0.321 7.96
65) methylcyclohexane
0.567 0.531 0.602 0.583 0.565 0.589 0.523 0.579 0.680 0.580 7.91
66) dibromomethane
0.242 0.264 0.274 0.225 0.225 0.210 0.206 0.222 0.263 0.237 10.60
67) bromodichloromethane
0.514 0.665 0.587 0.513 0.507 0.482 0.465 0.497 0.624 0.539 12.77
68) cis-1,3-dichloropropene
0.591 0.639 0.671 0.612 0.601 0.497 0.555 0.601 0.679 0.605 9.32
69) epichlorohydrin
0.064 0.081 0.066 0.065 0.062 0.067 0.083 0.070 12.29
70) 4-methyl-2-pentanone
0.205 0.248 0.266 0.208 0.194 0.224 0.175 0.217 0.272 0.223 14.67
71) 3-methyl-1-butanol
0.026 0.030 0.033 0.024 0.022 0.032 0.020 0.026 0.033 0.027 17.93

72) I chlorobenzene-d5 ----------ISTD----------
73) toluene-d8 (s)
1.390 1.434 1.402 1.312 1.298 1.428 1.296 1.337 1.433 1.432 1.376 4.30
74) toluene
0.916 1.105 1.004 0.884 0.871 0.923 0.799 0.896 1.052 0.939 10.29
75) trans-1,3-dichloropropene
0.628 0.785 0.728 0.631 0.612 0.543 0.564 0.619 0.740 0.650 12.71
76) ethyl methacrylate
0.655 0.716 0.615 0.582 0.709 0.525 0.634 0.797 0.654 13.05
77) 1,1,2-trichloroethane
0.322 0.363 0.315 0.306 0.311 0.285 0.320 0.394 0.327 10.70
78) 2-hexanone
0.244 0.307 0.319 0.231 0.211 0.280 0.186 0.244 0.319 0.260 18.63
79) tetrachloroethene
0.378 0.402 0.409 0.357 0.353 0.326 0.336 0.363 0.460 0.376 11.11
80) 1,3-dichloropropane
0.649 0.739 0.603 0.576 0.619 0.522 0.618 0.760 0.636 12.53
81) butyl acetate
0.333 0.442 0.325 0.310 0.292 0.335 0.339 15.56

# Initial Calibration Summary

**Job Number:** JD52507 **Sample:** VL10355-ICC10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342975.D
**Project:** EPT, Ithaca, NY

82) dibromochloromethane
0.404 0.545 0.497 0.397 0.393 0.413 0.363 0.401 0.521 0.437 14.98
83) 1,2-dibromoethane
0.434 0.531 0.511 0.409 0.397 0.396 0.373 0.408 0.484 0.438 12.86
84) n-butyl ether
1.418 1.611 1.360 1.301 1.326 1.134 1.391 1.672 1.402 12.26
85) chlorobenzene
0.961 1.060 0.951 0.947 0.842 0.861 0.963 1.091 0.960 8.90
86) 1,1,1,2-tetrachloroethane
0.355 0.419 0.324 0.309 0.333 0.277 0.338 0.424 0.347 14.75
87) ethylbenzene
1.720 1.895 1.547 1.447 1.600 1.248 1.666 2.065 1.648 15.43
88) m,p-xylene
0.650 0.823 0.730 0.616 0.590 0.603 0.527 0.643 0.766 0.661 14.22
89) o-xylene
0.679 0.733 0.648 0.626 0.571 0.571 0.658 0.800 0.661 11.76
90) butyl acrylate
0.821 0.977 0.808 0.778 0.901 0.693 0.806 0.984 0.846 11.88
91) styrene
1.118 1.232 1.032 0.987 0.967 0.866 1.077 1.295 1.072 13.17
92) bromoform
0.281 0.352 0.293 0.289 0.325 0.270 0.296 0.355 0.308 10.51
93) isopropylbenzene
1.670 1.886 1.617 1.553 1.484 1.347 1.665 2.051 1.659 13.41
94) cis-1,4-dichloro-2-butene
0.095 0.120 0.124 0.140 0.154 0.107 0.123 17.13

95) I 1,4-dichlorobenzene-d ----------ISTD----------
96) 4-bromofluorobenzene (s)
1.278 1.306 1.330 1.290 1.306 1.305 1.337 1.293 1.286 1.294 1.303 1.43
97) bromobenzene
0.981 1.145 1.109 0.965 0.959 1.030 0.890 0.912 1.142 1.015 9.54
98) 1,1,2,2-tetrachloroethane
1.533 1.976 1.913 1.500 1.477 1.838 1.383 1.491 1.951 1.674 14.32
99) trans-1,4-dichloro-2-butene
0.196 0.239 0.238 0.265 0.280 0.224 0.223 0.238 11.65
100) 1,2,3-trichloropropane
0.470 0.578 0.447 0.424 0.482 0.406 0.463 0.585 0.482 13.71
101) n-propylbenzene
4.787 5.491 4.622 4.471 4.599 3.941 4.702 5.702 4.789 11.75
102) 2-chlorotoluene
0.897 1.040 0.915 0.921 0.947 0.863 0.897 1.060 0.942 7.53
103) 4-chlorotoluene
0.915 1.055 0.895 0.909 0.914 0.852 0.911 1.107 0.945 9.30
104) 1,3,5-trimethylbenzene
3.358 3.805 3.341 3.226 3.350 2.895 3.404 4.094 3.434 10.61
105) tert-butylbenzene
2.818 3.171 2.877 2.832 2.480 2.570 2.808 3.466 2.878 10.95
106) 1,2,4-trimethylbenzene
3.401 3.985 3.412 3.304 3.351 2.904 3.416 4.342 3.514 12.65
107) sec-butylbenzene
4.026 4.563 4.081 3.998 3.804 3.541 4.109 4.790 4.114 9.66
108) 1,3-dichlorobenzene
1.654 1.949 1.729 1.729 1.560 1.597 1.658 1.834 1.714 7.45
109) p-isopropyltoluene
3.275 3.624 3.217 3.098 3.001 2.711 3.233 3.793 3.244 10.50
110) 1,4-dichlorobenzene
1.564 1.956 1.873 1.669 1.644 1.451 1.527 1.579 1.860 1.680 10.45
111) 1,2,3-trimethylbenzene
3.264 3.869 3.266 3.143 3.239 2.768 3.274 3.858 3.335 10.98

# Initial Calibration Summary

**Job Number:** JD52507 **Sample:** VL10355-ICC10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342975.D
**Project:** EPT, Ithaca, NY

```
112)  1,2-dichlorobenzene
       1.598 1.973 1.827 1.616 1.590 1.595 1.469 1.559 1.947        1.686   10.76
113)  n-butylbenzene
       1.558 1.746 1.697 1.693 1.713 1.295 1.562 1.622 1.728        1.624    8.72
114)  1,2-dibromo-3-chloropropane
       0.361 0.324 0.464 0.400 0.422 0.363 0.437 0.383 0.404        0.395   10.82
115)  1,3,5-trichlorobenzene
       0.997 1.002 1.170 1.171 1.164 0.867 1.090 1.067 1.134 1.217  1.088    9.85
116)  1,2,4-trichlorobenzene
       0.802       0.853 0.989 1.000 0.678 0.968 0.893 0.863        0.881   12.30
117)  hexachlorobutadiene
       0.313       0.375 0.366 0.335       0.325 0.350 0.405        0.353    9.04
118)  naphthalene
       2.685       3.018 3.121 3.133       3.005 2.933 2.928        2.975    5.08
119)  1,2,3-trichlorobenzene
       0.751 0.770 0.799 0.854 0.890 0.621 0.863 0.796 0.834        0.798   10.05
120)  hexachloroethane
       0.632 0.625 0.654 0.669 0.700 0.630 0.652 0.653 0.764 0.748  0.673    7.29
121)  benzyl chloride
       2.810       3.479 2.876 2.791       2.570 2.897              2.904   10.50
122)  2-methylnaphthalene *This compounds fails Initial Calibration criteria*
       0.445             1.206 1.362       1.477 0.835              1.065   39.71

123)     pentafluorobenzene(a) ----------------ISTD---------------------
124)  Freon 142B
       0.845       0.996 0.887 0.881 1.116 0.838 0.897 1.200        0.957   14.06
125)  vinyl bromide
       0.183       0.176 0.189 0.184 0.169 0.181 0.190 0.205        0.185    5.79
126)  allyl chloride
       0.283       0.340 0.300 0.310 0.304 0.297 0.320 0.366        0.315    8.49

127)     1,4-dichlorobenzene-d ----------------ISTD---------------------
128)  4-ethyltoluene
       3.638       4.310 4.147 3.825 4.179 3.337 4.131 4.618        4.023   10.05
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           ML10355.M         Thu Jun 30 17:58:11 2022   1
```

# Initial Calibration Verification



**Job Number:** JD52507 **Sample:** VL10355-ICV10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342980.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VL10355\L342980.D Vial: 14
Acq On : 15 Jun 2022 9:06 pm Operator: BridgetK
Sample : icv10355-50 Inst : GCMSL
Misc : MS59602,VL10355,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10355.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Fri Jun 17 18:01:43 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 92 | 0.00 | 3.09 |
| 2 | | 1,4-dioxane | 0.130 | 0.131 | -0.8 | 100 | 0.00 | 5.32 |
| 3 | | ethanol | 0.125 | 0.129 | -3.2 | 104 | 0.00 | 2.52 |
| 4 | M | tertiary butyl alcohol | 1.532 | 1.459 | 4.8 | 96 | 0.00 | 3.15 |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 97 | 0.00 | 4.31 |
| 6 | | chlorodifluoromethane | | ----------NA---------- | | | | |
| 7 | | dichlorodifluoromethane | 0.816 | 1.042 | -27.7 | 124 | 0.00 | 1.65 |
| 8 | | chloromethane | 0.546 | 0.632 | -15.8 | 114 | 0.00 | 1.82 |
| 9 | | vinyl chloride | 0.673 | 0.782 | -16.2 | 117 | 0.00 | 1.90 |
| 10 | | 1,3-butadiene | 0.662 | 0.795 | -20.1 | 117 | 0.00 | 1.93 |
| 11 | | bromomethane | 0.280 | 0.361 | -28.9 | 127 | 0.00 | 2.15 |
| 12 | | chloroethane | 0.394 | 0.439 | -11.4 | 116 | 0.00 | 2.23 |
| 13 | | trichlorofluoromethane | 0.941 | 1.068 | -13.5 | 112 | 0.00 | 2.42 |
| 14 | | ethyl ether | 0.329 | 0.353 | -7.3 | 98 | 0.00 | 2.61 |
| 15 | | acrolein | 0.119 | 0.089 | 25.2 | 74 | 0.00 | 2.71 |
| 16 | | freon 113 | 0.371 | 0.397 | -7.0 | 101 | 0.00 | 2.78 |
| 17 | | 1,1-dichloroethene | 0.462 | 0.479 | -3.7 | 100 | 0.00 | 2.79 |
| 18 | | acetone | 0.081 | 0.077 | 4.9 | 94 | 0.00 | 2.80 |
| 19 | | acetonitrile | | ----------NA---------- | | | | |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | | iodomethane | 50.000 | 45.519 | 9.0 | 86 | 0.00 | 2.91 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | | iso-butyl alcohol | 0.053 | 0.048 | 9.4 | 99 | 0.00 | 4.47 |
| 22 | | carbon disulfide | 1.420 | 1.470 | -3.5 | 106 | 0.00 | 2.96 |
| 23 | | methylene chloride | 0.537 | 0.524 | 2.4 | 100 | 0.00 | 3.12 |
| 24 | | methyl acetate | 0.163 | 0.164 | -0.6 | 99 | 0.00 | 3.01 |
| 25 | | methyl tert butyl ether | 1.747 | 1.816 | -3.9 | 100 | 0.00 | 3.29 |
| 26 | | trans-1,2-dichloroethene | 0.499 | 0.516 | -3.4 | 102 | 0.00 | 3.31 |
| 27 | | hexane | 0.702 | 0.768 | -9.4 | 108 | 0.00 | 3.49 |
| 28 | | di-isopropyl ether | 1.418 | 1.422 | -0.3 | 98 | 0.00 | 3.60 |
| 29 | | ethyl tert-butyl ether | 1.662 | 1.629 | 2.0 | 94 | 0.00 | 3.84 |
| 30 | | 2-butanone | 0.125 | 0.132 | -5.6 | 105 | 0.00 | 3.96 |
| 31 | M | 1,1-dichloroethane | 0.877 | 0.897 | -2.3 | 100 | 0.00 | 3.61 |
| 32 | | chloroprene | 0.713 | 0.764 | -7.2 | 108 | 0.00 | 3.66 |
| 33 | | acrylonitrile | | ----------NA---------- | | | | |
| 34 | | vinyl acetate | 0.151 | 0.147 | 2.6 | 90 | 0.00 | 3.58 |
| 35 | | ethyl acetate | 0.126 | 0.121 | 4.0 | 100 | 0.00 | 3.97 |
| 36 | | 2,2-dichloropropane | 0.853 | 0.836 | 2.0 | 100 | 0.00 | 4.00 |
| 37 | | cis-1,2-dichloroethene | 0.565 | 0.563 | 0.4 | 101 | 0.00 | 3.99 |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** VL10355-ICV10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342980.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | | propionitrile | 0.119 | 0.113 | 5.0 | 95 | 0.00 | 4.01 |
| 39 | | methyl acrylate | 0.147 | 0.138 | 6.1 | 96 | 0.00 | 4.02 |
| 40 | | bromochloromethane | 0.246 | 0.257 | -4.5 | 101 | 0.00 | 4.16 |
| 41 | | tetrahydrofuran | 0.139 | 0.144 | -3.6 | 99 | 0.00 | 4.17 |
| 42 | | chloroform | 1.004 | 0.980 | 2.4 | 100 | 0.00 | 4.21 |
| 43 | S | dibromofluoromethane (s) | 0.452 | 0.453 | -0.2 | 96 | 0.00 | 4.33 |
| 44 | | methacrylonitrile | 0.349 | 0.347 | 0.6 | 101 | 0.00 | 4.12 |
| 45 | | 1,1,1-trichloroethane | 0.861 | 0.887 | -3.0 | 101 | 0.00 | 4.35 |
| 46 | | cyclohexane | 0.792 | 0.838 | -5.8 | 109 | 0.00 | 4.41 |
| 47 | | 1,1-dichloropropene | 0.688 | 0.722 | -4.9 | 104 | 0.00 | 4.46 |
| 48 | | carbon tetrachloride | 0.713 | 0.720 | -1.0 | 104 | 0.00 | 4.47 |
| 49 | | isopropyl acetate | 0.179 | 0.181 | -1.1 | 104 | 0.00 | 4.58 |
| 50 | | tert amyl alcohol | 0.057 | 0.050 | 12.3 | 99 | 0.00 | 4.56 |
| 51 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 99 | 0.00 | 4.89 |
| 52 | S | 1,2-dichloroethane-d4 (s) | 0.365 | 0.346 | 5.2 | 96 | 0.00 | 4.58 |
| 53 | | tert-amyl methyl ether | 1.113 | 1.035 | 7.0 | 96 | 0.00 | 4.67 |
| 54 | | 2,2,4-trimethylpentane | 0.885 | 0.865 | 2.3 | 100 | 0.00 | 4.67 |
| 55 | | n-butyl alcohol | 0.025 | 0.023 | 8.0 | 98 | 0.00 | 4.94 |
| 56 | M | benzene | 1.302 | 1.319 | -1.3 | 105 | 0.00 | 4.61 |
| 57 | | heptane | 0.204 | 0.211 | -3.4 | 108 | 0.00 | 4.78 |
| 58 | | 1,2-dichloroethane | 0.491 | 0.480 | 2.2 | 99 | 0.00 | 4.64 |
| 59 | | trichloroethene | 0.368 | 0.373 | -1.4 | 102 | 0.00 | 5.08 |
| 60 | | ethyl acrylate | 0.610 | 0.574 | 5.9 | 95 | 0.00 | 5.09 |
| 61 | | 2-nitropropane | 0.179 | 0.173 | 3.4 | 96 | 0.00 | 5.63 |
| 62 | | 2-chloroethyl vinyl ether | 0.213 | 0.236 | -10.8 | 108 | 0.00 | 5.66 |
| 63 | | methyl methacrylate | 0.142 | 0.136 | 4.2 | 97 | 0.00 | 5.28 |
| 64 | | 1,2-dichloropropane | 0.321 | 0.309 | 3.7 | 97 | 0.00 | 5.28 |
| 65 | | methylcyclohexane | 0.580 | 0.594 | -2.4 | 101 | 0.00 | 5.27 |
| 66 | | dibromomethane | 0.237 | 0.230 | 3.0 | 101 | 0.00 | 5.35 |
| 67 | | bromodichloromethane | 0.539 | 0.529 | 1.9 | 102 | 0.00 | 5.47 |
| 68 | | cis-1,3-dichloropropene | 0.605 | 0.609 | -0.7 | 98 | 0.00 | 5.80 |
| 69 | | epichlorohydrin | 0.070 | 0.066 | 5.7 | 99 | 0.00 | 5.71 |
| 70 | | 4-methyl-2-pentanone | 0.223 | 0.210 | 5.8 | 99 | 0.00 | 5.90 |
| 71 | | 3-methyl-1-butanol | 0.027 | 0.025 | 7.4 | 101 | 0.00 | 5.92 |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 98 | 0.00 | 7.28 |
| 73 | S | toluene-d8 (s) | 1.376 | 1.302 | 5.4 | 97 | 0.00 | 6.03 |
| 74 | | toluene | 0.939 | 0.916 | 2.4 | 101 | 0.00 | 6.09 |
| 75 | | trans-1,3-dichloropropene | 0.650 | 0.635 | 2.3 | 98 | 0.00 | 6.26 |
| 76 | | ethyl methacrylate | 0.654 | 0.624 | 4.6 | 99 | 0.00 | 6.28 |
| 77 | | 1,1,2-trichloroethane | 0.327 | 0.321 | 1.8 | 99 | 0.00 | 6.43 |
| 78 | | 2-hexanone | 0.260 | 0.229 | 11.9 | 97 | 0.00 | 6.59 |
| 79 | | tetrachloroethene | | ----------NA---------- | | | | |
| 80 | | 1,3-dichloropropane | 0.636 | 0.623 | 2.0 | 101 | 0.00 | 6.57 |
| 81 | | butyl acetate | 0.339 | 0.337 | 0.6 | 101 | 0.00 | 6.67 |
| 82 | | dibromochloromethane | 0.437 | 0.414 | 5.3 | 102 | 0.00 | 6.76 |
| 83 | | 1,2-dibromoethane | 0.438 | 0.421 | 3.9 | 100 | 0.00 | 6.88 |
| 84 | | n-butyl ether | 1.402 | 1.372 | 2.1 | 98 | 0.00 | 7.35 |
| 85 | | chlorobenzene | 0.960 | 0.992 | -3.3 | 102 | 0.00 | 7.31 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.347 | 0.338 | 2.6 | 102 | 0.00 | 7.38 |
| 87 | | ethylbenzene | 1.648 | 1.649 | -0.1 | 104 | 0.00 | 7.38 |
| 88 | | m,p-xylene | 0.661 | 0.649 | 1.8 | 103 | 0.00 | 7.49 |
| 89 | | o-xylene | 0.661 | 0.667 | -0.9 | 100 | 0.00 | 7.85 |
| 90 | | butyl acrylate | 0.846 | 0.832 | 1.7 | 100 | 0.00 | 7.76 |
| 91 | | styrene | 1.072 | 1.082 | -0.9 | 102 | 0.00 | 7.86 |
| 92 | | bromoform | 0.308 | 0.305 | 1.0 | 102 | 0.00 | 8.04 |
| 93 | | isopropylbenzene | 1.659 | 1.726 | -4.0 | 104 | 0.00 | 8.18 |
| 94 | | cis-1,4-dichloro-2-butene | 0.123 | 0.141 | -14.6 | 111 | 0.00 | 8.24 |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** VL10355-ICV10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342980.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 95 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 96 | 0.00 | 9.47 |
| 96 | S | 4-bromofluorobenzene (s) | 1.303 | 1.306 | -0.2 | 97 | 0.00 | 8.35 |
| 97 | | bromobenzene | 1.015 | 1.016 | -0.1 | 101 | 0.00 | 8.50 |
| 98 | | 1,1,2,2-tetrachloroethane | 1.674 | 1.560 | 6.8 | 100 | 0.00 | 8.47 |
| 99 | | trans-1,4-dichloro-2-bute | 0.238 | 0.284 | -19.3 | 115 | 0.00 | 8.50 |
| 100 | | 1,2,3-trichloropropane | 0.482 | 0.464 | 3.7 | 100 | 0.00 | 8.53 |
| 101 | | n-propylbenzene | 4.789 | 4.981 | -4.0 | 103 | 0.00 | 8.58 |
| 102 | | 2-chlorotoluene | 0.942 | 0.978 | -3.8 | 103 | 0.00 | 8.68 |
| 103 | | 4-chlorotoluene | 0.945 | 0.961 | -1.7 | 103 | 0.00 | 8.79 |
| 104 | | 1,3,5-trimethylbenzene | 3.434 | 3.538 | -3.0 | 102 | 0.00 | 8.75 |
| 105 | | tert-butylbenzene | 2.878 | 3.192 | -10.9 | 106 | 0.00 | 9.05 |
| 106 | | 1,2,4-trimethylbenzene | 3.514 | 3.426 | 2.5 | 96 | 0.00 | 9.11 |
| 107 | | sec-butylbenzene | 4.114 | 4.344 | -5.6 | 102 | 0.00 | 9.27 |
| 108 | | 1,3-dichlorobenzene | 1.714 | 1.784 | -4.1 | 99 | 0.00 | 9.39 |
| 109 | | p-isopropyltoluene | 3.244 | 3.394 | -4.6 | 101 | 0.00 | 9.41 |
| 110 | | 1,4-dichlorobenzene | 1.680 | 1.714 | -2.0 | 99 | 0.00 | 9.49 |
| 111 | | 1,2,3-trimethylbenzene | | ----------NA---------- | | | | |
| 112 | | 1,2-dichlorobenzene | 1.686 | 1.660 | 1.5 | 99 | 0.00 | 9.84 |
| 113 | | n-butylbenzene | 1.624 | 1.808 | -11.3 | 103 | 0.00 | 9.81 |
| 114 | | 1,2-dibromo-3-chloropropa | 0.395 | 0.424 | -7.3 | 102 | 0.00 | 10.62 |
| 115 | | 1,3,5-trichlorobenzene | 1.088 | 1.228 | -12.9 | 101 | 0.00 | 10.80 |
| 116 | | 1,2,4-trichlorobenzene | 0.881 | 1.009 | -14.5 | 98 | 0.00 | 11.43 |
| 117 | | hexachlorobutadiene | 0.353 | 0.385 | -9.1 | 101 | 0.00 | 11.57 |
| 118 | | naphthalene | 2.975 | 3.168 | -6.5 | 97 | 0.00 | 11.69 |
| 119 | | 1,2,3-trichlorobenzene | 0.798 | 0.887 | -11.2 | 100 | 0.00 | 11.91 |
| 120 | | hexachloroethane | 0.673 | 0.713 | -5.9 | 102 | 0.00 | 10.11 |
| 121 | | benzyl chloride | 2.904 | 2.801 | 3.5 | 93 | 0.00 | 9.60 |
| 122 | | 2-methylnaphthalene | 1.065 | 1.194 | -12.1 | 95 | 0.00 | 12.82 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L342975.D ML10355.M Fri Jun 17 18:03:45 2022 1

# Initial Calibration Verification



**Job Number:** JD52507 **Sample:** VL10355-ICV10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342981.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VL10355\L342981.D Vial: 15
Acq On : 15 Jun 2022 9:29 pm Operator: BridgetK
Sample : icv10355-50 Inst : GCMSL
Misc : MS59602,VL10355,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10355.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Fri Jun 17 18:01:43 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 3.09 |
| 2 | | 1,4-dioxane | | ----------NA---------- | | | | |
| 3 | | ethanol | | ----------NA---------- | | | | |
| 4 | M | tertiary butyl alcohol | | ----------NA---------- | | | | |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 112 | 0.00 | 4.31 |
| 6 | | chlorodifluoromethane | 0.559 | 0.256 | 54.2# | 52 | 0.00 | 1.67 |
| 7 | | dichlorodifluoromethane | | ----------NA---------- | | | | |
| 8 | | chloromethane | | ----------NA---------- | | | | |
| 9 | | vinyl chloride | | ----------NA---------- | | | | |
| 10 | | 1,3-butadiene | | ----------NA---------- | | | | |
| 11 | | bromomethane | | ----------NA---------- | | | | |
| 12 | | chloroethane | | ----------NA---------- | | | | |
| 13 | | trichlorofluoromethane | | ----------NA---------- | | | | |
| 14 | | ethyl ether | | ----------NA---------- | | | | |
| 15 | | acrolein | | ----------NA---------- | | | | |
| 16 | | freon 113 | | ----------NA---------- | | | | |
| 17 | | 1,1-dichloroethene | | ----------NA---------- | | | | |
| 18 | | acetone | | ----------NA---------- | | | | |
| 19 | | acetonitrile | 0.053 | 0.056 | -5.7 | 120 | 0.00 | 2.99 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | | iodomethane | | ----------NA---------- | | | | |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | | iso-butyl alcohol | | ----------NA---------- | | | | |
| 22 | | carbon disulfide | | ----------NA---------- | | | | |
| 23 | | methylene chloride | | ----------NA---------- | | | | |
| 24 | | methyl acetate | | ----------NA---------- | | | | |
| 25 | | methyl tert butyl ether | | ----------NA---------- | | | | |
| 26 | | trans-1,2-dichloroethene | | ----------NA---------- | | | | |
| 27 | | hexane | | ----------NA---------- | | | | |
| 28 | | di-isopropyl ether | | ----------NA---------- | | | | |
| 29 | | ethyl tert-butyl ether | | ----------NA---------- | | | | |
| 30 | | 2-butanone | | ----------NA---------- | | | | |
| 31 | M | 1,1-dichloroethane | | ----------NA---------- | | | | |
| 32 | | chloroprene | | ----------NA---------- | | | | |
| 33 | | acrylonitrile | 0.288 | 0.264 | 8.3 | 102 | 0.00 | 3.27 |
| 34 | | vinyl acetate | | ----------NA---------- | | | | |
| 35 | | ethyl acetate | | ----------NA---------- | | | | |
| 36 | | 2,2-dichloropropane | | ----------NA---------- | | | | |
| 37 | | cis-1,2-dichloroethene | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** VL10355-ICV10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342981.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | | propionitrile | | ----------NA---------- | | | | |
| 39 | | methyl acrylate | | ----------NA---------- | | | | |
| 40 | | bromochloromethane | | ----------NA---------- | | | | |
| 41 | | tetrahydrofuran | | ----------NA---------- | | | | |
| 42 | | chloroform | | ----------NA---------- | | | | |
| 43 | S | dibromofluoromethane (s) | 0.452 | 0.449 | 0.7 | 109 | 0.00 | 4.32 |
| 44 | | methacrylonitrile | | ----------NA---------- | | | | |
| 45 | | 1,1,1-trichloroethane | | ----------NA---------- | | | | |
| 46 | | cyclohexane | | ----------NA---------- | | | | |
| 47 | | 1,1-dichloropropene | | ----------NA---------- | | | | |
| 48 | | carbon tetrachloride | | ----------NA---------- | | | | |
| 49 | | isopropyl acetate | | ----------NA---------- | | | | |
| 50 | | tert amyl alcohol | | ----------NA---------- | | | | |
| 51 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 109 | 0.00 | 4.88 |
| 52 | S | 1,2-dichloroethane-d4 (s) | 0.365 | 0.383 | -4.9 | 117 | 0.00 | 4.58 |
| 53 | | tert-amyl methyl ether | | ----------NA---------- | | | | |
| 54 | | 2,2,4-trimethylpentane | | ----------NA---------- | | | | |
| 55 | | n-butyl alcohol | | ----------NA---------- | | | | |
| 56 | M | benzene | | ----------NA---------- | | | | |
| 57 | | heptane | | ----------NA---------- | | | | |
| 58 | | 1,2-dichloroethane | | ----------NA---------- | | | | |
| 59 | | trichloroethene | | ----------NA---------- | | | | |
| 60 | | ethyl acrylate | | ----------NA---------- | | | | |
| 61 | | 2-nitropropane | | ----------NA---------- | | | | |
| 62 | | 2-chloroethyl vinyl ether | | ----------NA---------- | | | | |
| 63 | | methyl methacrylate | | ----------NA---------- | | | | |
| 64 | | 1,2-dichloropropane | | ----------NA---------- | | | | |
| 65 | | methylcyclohexane | | ----------NA---------- | | | | |
| 66 | | dibromomethane | | ----------NA---------- | | | | |
| 67 | | bromodichloromethane | | ----------NA---------- | | | | |
| 68 | | cis-1,3-dichloropropene | | ----------NA---------- | | | | |
| 69 | | epichlorohydrin | | ----------NA---------- | | | | |
| 70 | | 4-methyl-2-pentanone | | ----------NA---------- | | | | |
| 71 | | 3-methyl-1-butanol | | ----------NA---------- | | | | |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 99 | 0.00 | 7.28 |
| 73 | S | toluene-d8 (s) | 1.376 | 1.459 | -6.0 | 110 | 0.00 | 6.03 |
| 74 | | toluene | | ----------NA---------- | | | | |
| 75 | | trans-1,3-dichloropropene | | ----------NA---------- | | | | |
| 76 | | ethyl methacrylate | | ----------NA---------- | | | | |
| 77 | | 1,1,2-trichloroethane | | ----------NA---------- | | | | |
| 78 | | 2-hexanone | | ----------NA---------- | | | | |
| 79 | | tetrachloroethene | 0.376 | 0.401 | -6.6 | 111 | 0.00 | 6.53 |
| 80 | | 1,3-dichloropropane | | ----------NA---------- | | | | |
| 81 | | butyl acetate | | ----------NA---------- | | | | |
| 82 | | dibromochloromethane | | ----------NA---------- | | | | |
| 83 | | 1,2-dibromoethane | | ----------NA---------- | | | | |
| 84 | | n-butyl ether | | ----------NA---------- | | | | |
| 85 | | chlorobenzene | | ----------NA---------- | | | | |
| 86 | | 1,1,1,2-tetrachloroethane | | ----------NA---------- | | | | |
| 87 | | ethylbenzene | | ----------NA---------- | | | | |
| 88 | | m,p-xylene | | ----------NA---------- | | | | |
| 89 | | o-xylene | | ----------NA---------- | | | | |
| 90 | | butyl acrylate | | ----------NA---------- | | | | |
| 91 | | styrene | | ----------NA---------- | | | | |
| 92 | | bromoform | | ----------NA---------- | | | | |
| 93 | | isopropylbenzene | | ----------NA---------- | | | | |
| 94 | | cis-1,4-dichloro-2-butene | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** VL10355-ICV10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342981.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 95 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 9.47 |
| 96 | S | 4-bromofluorobenzene (s) | 1.303 | 1.318 | -1.2 | 105 | 0.00 | 8.35 |
| 97 | | bromobenzene | | ----------NA---------- | | | | |
| 98 | | 1,1,2,2-tetrachloroethane | | ----------NA---------- | | | | |
| 99 | | trans-1,4-dichloro-2-bute | | ----------NA---------- | | | | |
| 100 | | 1,2,3-trichloropropane | | ----------NA---------- | | | | |
| 101 | | n-propylbenzene | | ----------NA---------- | | | | |
| 102 | | 2-chlorotoluene | | ----------NA---------- | | | | |
| 103 | | 4-chlorotoluene | | ----------NA---------- | | | | |
| 104 | | 1,3,5-trimethylbenzene | | ----------NA---------- | | | | |
| 105 | | tert-butylbenzene | | ----------NA---------- | | | | |
| 106 | | 1,2,4-trimethylbenzene | | ----------NA---------- | | | | |
| 107 | | sec-butylbenzene | | ----------NA---------- | | | | |
| 108 | | 1,3-dichlorobenzene | | ----------NA---------- | | | | |
| 109 | | p-isopropyltoluene | | ----------NA---------- | | | | |
| 110 | | 1,4-dichlorobenzene | | ----------NA---------- | | | | |
| 111 | | 1,2,3-trimethylbenzene | 3.335 | 3.645 | -9.3 | 115 | 0.00 | 9.51 |
| 112 | | 1,2-dichlorobenzene | | ----------NA---------- | | | | |
| 113 | | n-butylbenzene | | ----------NA---------- | | | | |
| 114 | | 1,2-dibromo-3-chloropropa | | ----------NA---------- | | | | |
| 115 | | 1,3,5-trichlorobenzene | | ----------NA---------- | | | | |
| 116 | | 1,2,4-trichlorobenzene | | ----------NA---------- | | | | |
| 117 | | hexachlorobutadiene | | ----------NA---------- | | | | |
| 118 | | naphthalene | | ----------NA---------- | | | | |
| 119 | | 1,2,3-trichlorobenzene | | ----------NA---------- | | | | |
| 120 | | hexachloroethane | | ----------NA---------- | | | | |
| 121 | | benzyl chloride | | ----------NA---------- | | | | |
| 122 | | 2-methylnaphthalene | | ----------NA---------- | | | | |

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

L342975.D ML10355.M Fri Jun 17 18:03:47 2022 1

# Initial Calibration Verification



**Job Number:** JD52507 **Sample:** VL10355-ICV10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342985.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VL10355\L342985.D Vial: 19
Acq On : 16 Jun 2022 10:06 am Operator: BridgetK
Sample : icv10355-50 Inst : GCMSL
Misc : MS59602,VL10355,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10355.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Fri Jun 17 18:01:43 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 118 | 0.00 | 3.09 |
| 2 | | 1,4-dioxane | | ----------NA---------- | | | | |
| 3 | | ethanol | | ----------NA---------- | | | | |
| 4 | M | tertiary butyl alcohol | | ----------NA---------- | | | | |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 113 | 0.00 | 4.31 |
| 6 | | chlorodifluoromethane | 0.559 | 0.485 | 13.2 | 100 | 0.00 | 1.67 |
| 7 | | dichlorodifluoromethane | | ----------NA---------- | | | | |
| 8 | | chloromethane | | ----------NA---------- | | | | |
| 9 | | vinyl chloride | | ----------NA---------- | | | | |
| 10 | | 1,3-butadiene | | ----------NA---------- | | | | |
| 11 | | bromomethane | | ----------NA---------- | | | | |
| 12 | | chloroethane | | ----------NA---------- | | | | |
| 13 | | trichlorofluoromethane | | ----------NA---------- | | | | |
| 14 | | ethyl ether | | ----------NA---------- | | | | |
| 15 | | acrolein | | ----------NA---------- | | | | |
| 16 | | freon 113 | | ----------NA---------- | | | | |
| 17 | | 1,1-dichloroethene | | ----------NA---------- | | | | |
| 18 | | acetone | | ----------NA---------- | | | | |
| 19 | | acetonitrile | | ----------NA---------- | | | | |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | | iodomethane | | ----------NA---------- | | | | |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | | iso-butyl alcohol | | ----------NA---------- | | | | |
| 22 | | carbon disulfide | | ----------NA---------- | | | | |
| 23 | | methylene chloride | | ----------NA---------- | | | | |
| 24 | | methyl acetate | | ----------NA---------- | | | | |
| 25 | | methyl tert butyl ether | | ----------NA---------- | | | | |
| 26 | | trans-1,2-dichloroethene | | ----------NA---------- | | | | |
| 27 | | hexane | | ----------NA---------- | | | | |
| 28 | | di-isopropyl ether | | ----------NA---------- | | | | |
| 29 | | ethyl tert-butyl ether | | ----------NA---------- | | | | |
| 30 | | 2-butanone | | ----------NA---------- | | | | |
| 31 | M | 1,1-dichloroethane | | ----------NA---------- | | | | |
| 32 | | chloroprene | | ----------NA---------- | | | | |
| 33 | | acrylonitrile | | ----------NA---------- | | | | |
| 34 | | vinyl acetate | | ----------NA---------- | | | | |
| 35 | | ethyl acetate | | ----------NA---------- | | | | |
| 36 | | 2,2-dichloropropane | | ----------NA---------- | | | | |
| 37 | | cis-1,2-dichloroethene | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** VL10355-ICV10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342985.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | | propionitrile | | ----------NA---------- | | | | |
| 39 | | methyl acrylate | | ----------NA---------- | | | | |
| 40 | | bromochloromethane | | ----------NA---------- | | | | |
| 41 | | tetrahydrofuran | | ----------NA---------- | | | | |
| 42 | | chloroform | | ----------NA---------- | | | | |
| 43 | S | dibromofluoromethane (s) | 0.452 | 0.455 | -0.7 | 112 | 0.00 | 4.32 |
| 44 | | methacrylonitrile | | ----------NA---------- | | | | |
| 45 | | 1,1,1-trichloroethane | | ----------NA---------- | | | | |
| 46 | | cyclohexane | | ----------NA---------- | | | | |
| 47 | | 1,1-dichloropropene | | ----------NA---------- | | | | |
| 48 | | carbon tetrachloride | | ----------NA---------- | | | | |
| 49 | | isopropyl acetate | | ----------NA---------- | | | | |
| 50 | | tert amyl alcohol | | ----------NA---------- | | | | |
| 51 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 109 | 0.00 | 4.88 |
| 52 | S | 1,2-dichloroethane-d4 (s) | 0.365 | 0.395 | -8.2 | 120 | 0.00 | 4.57 |
| 53 | | tert-amyl methyl ether | | ----------NA---------- | | | | |
| 54 | | 2,2,4-trimethylpentane | | ----------NA---------- | | | | |
| 55 | | n-butyl alcohol | | ----------NA---------- | | | | |
| 56 | M | benzene | | ----------NA---------- | | | | |
| 57 | | heptane | | ----------NA---------- | | | | |
| 58 | | 1,2-dichloroethane | | ----------NA---------- | | | | |
| 59 | | trichloroethene | | ----------NA---------- | | | | |
| 60 | | ethyl acrylate | | ----------NA---------- | | | | |
| 61 | | 2-nitropropane | | ----------NA---------- | | | | |
| 62 | | 2-chloroethyl vinyl ether | | ----------NA---------- | | | | |
| 63 | | methyl methacrylate | | ----------NA---------- | | | | |
| 64 | | 1,2-dichloropropane | | ----------NA---------- | | | | |
| 65 | | methylcyclohexane | | ----------NA---------- | | | | |
| 66 | | dibromomethane | | ----------NA---------- | | | | |
| 67 | | bromodichloromethane | | ----------NA---------- | | | | |
| 68 | | cis-1,3-dichloropropene | | ----------NA---------- | | | | |
| 69 | | epichlorohydrin | | ----------NA---------- | | | | |
| 70 | | 4-methyl-2-pentanone | | ----------NA---------- | | | | |
| 71 | | 3-methyl-1-butanol | | ----------NA---------- | | | | |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 7.28 |
| 73 | S | toluene-d8 (s) | 1.376 | 1.447 | -5.2 | 112 | 0.00 | 6.02 |
| 74 | | toluene | | ----------NA---------- | | | | |
| 75 | | trans-1,3-dichloropropene | | ----------NA---------- | | | | |
| 76 | | ethyl methacrylate | | ----------NA---------- | | | | |
| 77 | | 1,1,2-trichloroethane | | ----------NA---------- | | | | |
| 78 | | 2-hexanone | | ----------NA---------- | | | | |
| 79 | | tetrachloroethene | | ----------NA---------- | | | | |
| 80 | | 1,3-dichloropropane | | ----------NA---------- | | | | |
| 81 | | butyl acetate | | ----------NA---------- | | | | |
| 82 | | dibromochloromethane | | ----------NA---------- | | | | |
| 83 | | 1,2-dibromoethane | | ----------NA---------- | | | | |
| 84 | | n-butyl ether | | ----------NA---------- | | | | |
| 85 | | chlorobenzene | | ----------NA---------- | | | | |
| 86 | | 1,1,1,2-tetrachloroethane | | ----------NA---------- | | | | |
| 87 | | ethylbenzene | | ----------NA---------- | | | | |
| 88 | | m,p-xylene | | ----------NA---------- | | | | |
| 89 | | o-xylene | | ----------NA---------- | | | | |
| 90 | | butyl acrylate | | ----------NA---------- | | | | |
| 91 | | styrene | | ----------NA---------- | | | | |
| 92 | | bromoform | | ----------NA---------- | | | | |
| 93 | | isopropylbenzene | | ----------NA---------- | | | | |
| 94 | | cis-1,4-dichloro-2-butene | | ----------NA---------- | | | | |

# Initial Calibration Verification

**Job Number:** JD52507 **Sample:** VL10355-ICV10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L342985.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 95 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 9.47 |
| 96 | S | 4-bromofluorobenzene (s) | 1.303 | 1.300 | 0.2 | 105 | 0.00 | 8.35 |
| 97 | | bromobenzene | ----------NA---------- | | | | | |
| 98 | | 1,1,2,2-tetrachloroethane | ----------NA---------- | | | | | |
| 99 | | trans-1,4-dichloro-2-bute | ----------NA---------- | | | | | |
| 100 | | 1,2,3-trichloropropane | ----------NA---------- | | | | | |
| 101 | | n-propylbenzene | ----------NA---------- | | | | | |
| 102 | | 2-chlorotoluene | ----------NA---------- | | | | | |
| 103 | | 4-chlorotoluene | ----------NA---------- | | | | | |
| 104 | | 1,3,5-trimethylbenzene | ----------NA---------- | | | | | |
| 105 | | tert-butylbenzene | ----------NA---------- | | | | | |
| 106 | | 1,2,4-trimethylbenzene | ----------NA---------- | | | | | |
| 107 | | sec-butylbenzene | ----------NA---------- | | | | | |
| 108 | | 1,3-dichlorobenzene | ----------NA---------- | | | | | |
| 109 | | p-isopropyltoluene | ----------NA---------- | | | | | |
| 110 | | 1,4-dichlorobenzene | ----------NA---------- | | | | | |
| 111 | | 1,2,3-trimethylbenzene | ----------NA---------- | | | | | |
| 112 | | 1,2-dichlorobenzene | ----------NA---------- | | | | | |
| 113 | | n-butylbenzene | ----------NA---------- | | | | | |
| 114 | | 1,2-dibromo-3-chloropropa | ----------NA---------- | | | | | |
| 115 | | 1,3,5-trichlorobenzene | ----------NA---------- | | | | | |
| 116 | | 1,2,4-trichlorobenzene | ----------NA---------- | | | | | |
| 117 | | hexachlorobutadiene | ----------NA---------- | | | | | |
| 118 | | naphthalene | ----------NA---------- | | | | | |
| 119 | | 1,2,3-trichlorobenzene | ----------NA---------- | | | | | |
| 120 | | hexachloroethane | ----------NA---------- | | | | | |
| 121 | | benzyl chloride | ----------NA---------- | | | | | |
| 122 | | 2-methylnaphthalene | ----------NA---------- | | | | | |

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

L342975.D ML10355.M Fri Jun 17 18:03:49 2022 1

# Continuing Calibration Summary



**Job Number:** JD52507 **Sample:** VL10519-CC10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L347829.D
**Project:** EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\lo...9-due today\l347829.d Vial: 4
Acq On : 4 Oct 2022 10:21 am Operator: nicoleh
Sample : cc10355-20 Inst : GCMSL
Misc : MS62669,VL10519,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10355.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Thu Jun 23 18:51:37 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|---|
| 1 | I | tert butyl alcohol-d9 | 1.000 | 1.000 | 0.0 | 58 | 0.00 | 3.09 |
| 2 | | 1,4-dioxane | 0.130 | 0.038 | 70.8# | 19# | -0.02 | 5.30 |
| 3 | | ethanol | 0.125 | 0.051 | 59.2# | 26# | 0.00 | 2.50 |
| 4 | M | tertiary butyl alcohol | 1.532 | 1.543 | -0.7 | 67 | 0.00 | 3.14 |
| 5 | I | pentafluorobenzene | 1.000 | 1.000 | 0.0 | 100 | 0.00 | 4.30 |
| 6 | | chlorodifluoromethane | 0.559 | 0.771 | -37.9# | 140 | 0.00 | 1.68 |
| 7 | | dichlorodifluoromethane | 0.816 | 0.865 | -6.0 | 107 | 0.00 | 1.66 |
| 8 | | chloromethane | 0.546 | 0.522 | 4.4 | 96 | 0.00 | 1.82 |
| 9 | | vinyl chloride | 0.673 | 0.628 | 6.7 | 95 | 0.00 | 1.90 |
| 10 | | 1,3-butadiene | 0.662 | 0.736 | -11.2 | 106 | 0.00 | 1.93 |
| 11 | | bromomethane | 0.280 | 0.224 | 20.0# | 87 | 0.01 | 2.16 |
| 12 | | chloroethane | 0.394 | 0.332 | 15.7 | 92 | 0.00 | 2.24 |
| 13 | | trichlorofluoromethane | 0.941 | 0.966 | -2.7 | 102 | 0.00 | 2.42 |
| 14 | | ethyl ether | 0.329 | 0.401 | -21.9# | 116 | 0.00 | 2.60 |
| 15 | | acrolein | 0.119 | 0.153 | -28.6# | 133 | 0.00 | 2.70 |
| 16 | | freon 113 | 0.371 | 0.477 | -28.6# | 128 | 0.00 | 2.77 |
| 17 | | 1,1-dichloroethene | 0.462 | 0.545 | -18.0 | 115 | 0.00 | 2.79 |
| 18 | | acetone | 0.081 | 0.088 | -8.6 | 108 | 0.00 | 2.79 |
| 19 | | acetonitrile | 0.053 | 0.043 | 18.9 | 81 | 0.00 | 2.99 |
| | | ---------- | True | Calc. | % Drift | ---------- | | |
| 20 | | iodomethane | 20.000 | 15.235 | 23.8# | 84 | 0.00 | 2.90 |
| | | ---------- | AvgRF | CCRF | % Dev | ---------- | | |
| 21 | | iso-butyl alcohol | 0.053 | 0.034 | 35.8# | 68 | 0.00 | 4.45 |
| 22 | | carbon disulfide | 1.420 | 1.547 | -8.9 | 110 | 0.00 | 2.96 |
| 23 | | methylene chloride | 0.537 | 0.596 | -11.0 | 118 | 0.00 | 3.11 |
| 24 | | methyl acetate | 0.163 | 0.167 | -2.5 | 104 | 0.00 | 3.01 |
| 25 | | methyl tert butyl ether | 1.747 | 1.799 | -3.0 | 103 | 0.00 | 3.28 |
| 26 | | trans-1,2-dichloroethene | 0.499 | 0.564 | -13.0 | 115 | 0.00 | 3.30 |
| 27 | | hexane | 0.702 | 0.837 | -19.2 | 121 | 0.00 | 3.48 |
| 28 | | di-isopropyl ether | 1.418 | 1.703 | -20.1# | 119 | 0.00 | 3.59 |
| 29 | | ethyl tert-butyl ether | 1.662 | 1.876 | -12.9 | 112 | -0.01 | 3.83 |
| 30 | | 2-butanone | 0.125 | 0.119 | 4.8 | 97 | 0.00 | 3.95 |
| 31 | M | 1,1-dichloroethane | 0.877 | 1.000 | -14.0 | 115 | 0.00 | 3.59 |
| 32 | | chloroprene | 0.713 | 0.812 | -13.9 | 114 | 0.00 | 3.65 |
| 33 | | acrylonitrile | 0.288 | 0.330 | -14.6 | 113 | 0.00 | 3.26 |
| 34 | | vinyl acetate | 0.151 | 0.171 | -13.2 | 111 | 0.00 | 3.57 |
| 35 | | ethyl acetate | 0.126 | 0.141 | -11.9 | 113 | 0.00 | 3.96 |
| 36 | | 2,2-dichloropropane | 0.853 | 0.831 | 2.6 | 95 | 0.00 | 3.99 |
| 37 | | cis-1,2-dichloroethene | 0.565 | 0.596 | -5.5 | 108 | 0.00 | 3.98 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** VL10519-CC10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L347829.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 38 | | propionitrile | 0.119 | 0.123 | -3.4 | 100 | -0.01 | 4.00 |
| 39 | | methyl acrylate | 0.147 | 0.158 | -7.5 | 108 | 0.00 | 4.01 |
| 40 | | bromochloromethane | 0.246 | 0.269 | -9.3 | 115 | -0.01 | 4.14 |
| 41 | | tetrahydrofuran | 0.139 | 0.137 | 1.4 | 91 | 0.00 | 4.16 |
| 42 | | chloroform | 1.004 | 1.001 | 0.3 | 104 | 0.00 | 4.20 |
| 43 | S | dibromofluoromethane (s) | 0.452 | 0.432 | 4.4 | 94 | 0.00 | 4.31 |
| 44 | | methacrylonitrile | 0.349 | 0.370 | -6.0 | 111 | -0.01 | 4.11 |
| 45 | | 1,1,1-trichloroethane | 0.861 | 0.813 | 5.6 | 97 | 0.00 | 4.34 |
| 46 | | cyclohexane | 0.792 | 0.785 | 0.9 | 102 | -0.01 | 4.40 |
| 47 | | 1,1-dichloropropene | 0.688 | 0.722 | -4.9 | 104 | -0.01 | 4.45 |
| 48 | | carbon tetrachloride | 0.713 | 0.699 | 2.0 | 96 | 0.00 | 4.46 |
| 49 | | isopropyl acetate | 0.179 | 0.185 | -3.4 | 108 | 0.00 | 4.57 |
| 50 | | tert amyl alcohol | 0.057 | 0.040 | 29.8# | 75 | 0.00 | 4.55 |
| 51 | I | 1,4-difluorobenzene | 1.000 | 1.000 | 0.0 | 99 | 0.00 | 4.87 |
| 52 | S | 1,2-dichloroethane-d4 (s) | 0.365 | 0.324 | 11.2 | 87 | 0.00 | 4.57 |
| 53 | | tert-amyl methyl ether | 1.113 | 1.144 | -2.8 | 101 | -0.01 | 4.65 |
| 54 | | 2,2,4-trimethylpentane | 0.885 | 1.015 | -14.7 | 111 | -0.01 | 4.66 |
| 55 | | n-butyl alcohol | 0.025 | 0.012 | 52.0# | 49# | 0.00 | 4.93 |
| 56 | M | benzene | 1.302 | 1.439 | -10.5 | 109 | 0.00 | 4.60 |
| 57 | | heptane | 0.204 | 0.209 | -2.5 | 108 | 0.00 | 4.77 |
| 58 | | 1,2-dichloroethane | 0.491 | 0.487 | 0.8 | 98 | 0.00 | 4.62 |
| 59 | | trichloroethene | 0.368 | 0.399 | -8.4 | 108 | -0.01 | 5.07 |
| 60 | | ethyl acrylate | 0.610 | 0.698 | -14.4 | 115 | 0.00 | 5.08 |
| 61 | | 2-nitropropane | 0.179 | 0.175 | 2.2 | 96 | 0.00 | 5.62 |
| 62 | | 2-chloroethyl vinyl ether | 0.213 | 0.274 | -28.6# | 127 | 0.00 | 5.65 |
| 63 | | methyl methacrylate | 0.142 | 0.151 | -6.3 | 106 | 0.00 | 5.26 |
| 64 | | 1,2-dichloropropane | 0.321 | 0.378 | -17.8 | 115 | 0.00 | 5.26 |
| 65 | | methylcyclohexane | 0.580 | 0.625 | -7.8 | 106 | 0.00 | 5.26 |
| 66 | | dibromomethane | 0.237 | 0.237 | 0.0 | 105 | 0.00 | 5.33 |
| 67 | | bromodichloromethane | 0.539 | 0.510 | 5.4 | 101 | 0.00 | 5.45 |
| 68 | | cis-1,3-dichloropropene | 0.605 | 0.575 | 5.0 | 94 | 0.00 | 5.79 |
| 69 | | epichlorohydrin | 0.070 | 0.062 | 11.4 | 90 | 0.00 | 5.70 |
| 70 | | 4-methyl-2-pentanone | 0.223 | 0.248 | -11.2 | 113 | 0.00 | 5.89 |
| 71 | | 3-methyl-1-butanol | 0.027 | 0.015 | 44.4# | 56 | 0.00 | 5.91 |
| 72 | I | chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 7.27 |
| 73 | S | toluene-d8 (s) | 1.376 | 1.280 | 7.0 | 97 | 0.00 | 6.02 |
| 74 | | toluene | 0.939 | 0.992 | -5.6 | 112 | 0.00 | 6.08 |
| 75 | | trans-1,3-dichloropropene | 0.650 | 0.539 | 17.1 | 88 | 0.00 | 6.25 |
| 76 | | ethyl methacrylate | 0.654 | 0.670 | -2.4 | 107 | 0.00 | 6.27 |
| 77 | | 1,1,2-trichloroethane | 0.327 | 0.339 | -3.7 | 108 | 0.00 | 6.42 |
| 78 | | 2-hexanone | 0.260 | 0.268 | -3.1 | 112 | 0.00 | 6.58 |
| 79 | | tetrachloroethene | 0.376 | 0.396 | -5.3 | 111 | 0.00 | 6.51 |
| 80 | | 1,3-dichloropropane | 0.636 | 0.656 | -3.1 | 108 | 0.00 | 6.56 |
| 81 | | butyl acetate | 0.339 | 0.379 | -11.8 | 115 | 0.00 | 6.67 |
| 82 | | dibromochloromethane | 0.437 | 0.404 | 7.6 | 102 | -0.01 | 6.75 |
| 83 | | 1,2-dibromoethane | 0.438 | 0.435 | 0.7 | 108 | 0.00 | 6.87 |
| 84 | | n-butyl ether | 1.402 | 1.628 | -16.1 | 119 | 0.00 | 7.34 |
| 85 | | chlorobenzene | 0.960 | 1.026 | -6.9 | 108 | 0.00 | 7.30 |
| 86 | | 1,1,1,2-tetrachloroethane | 0.347 | 0.353 | -1.7 | 106 | 0.00 | 7.37 |
| 87 | | ethylbenzene | 1.648 | 1.821 | -10.5 | 111 | 0.00 | 7.37 |
| 88 | | m,p-xylene | 0.661 | 0.657 | 0.6 | 104 | 0.00 | 7.48 |
| 89 | | o-xylene | 0.661 | 0.687 | -3.9 | 106 | 0.00 | 7.84 |
| 90 | | butyl acrylate | 0.846 | 0.940 | -11.1 | 118 | 0.00 | 7.76 |
| 91 | | styrene | 1.072 | 1.124 | -4.9 | 106 | 0.00 | 7.86 |
| 92 | | bromoform | 0.308 | 0.258 | 16.2 | 89 | 0.00 | 8.04 |
| 93 | | isopropylbenzene | 1.659 | 1.761 | -6.1 | 107 | 0.00 | 8.18 |
| 94 | | cis-1,4-dichloro-2-butene | 0.123 | 0.067 | 45.5# | 64 | 0.00 | 8.23 |

# Continuing Calibration Summary

**Job Number:** JD52507 **Sample:** VL10519-CC10355
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L347829.D
**Project:** EPT, Ithaca, NY

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 95 | I | 1,4-dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 9.47 |
| 96 | S | 4-bromofluorobenzene (s) | 1.303 | 1.269 | 2.6 | 99 | 0.00 | 8.35 |
| 97 | | bromobenzene | 1.015 | 1.072 | -5.6 | 118 | 0.00 | 8.50 |
| 98 | | 1,1,2,2-tetrachloroethane | 1.674 | 1.614 | 3.6 | 109 | 0.00 | 8.47 |
| 99 | | trans-1,4-dichloro-2-bute | 0.238 | 0.145 | 39.1# | 65 | 0.00 | 8.50 |
| 100 | | 1,2,3-trichloropropane | 0.482 | 0.451 | 6.4 | 98 | 0.00 | 8.53 |
| 101 | | n-propylbenzene | 4.789 | 5.087 | -6.2 | 109 | 0.00 | 8.57 |
| 102 | | 2-chlorotoluene | 0.942 | 1.003 | -6.5 | 113 | 0.00 | 8.67 |
| 103 | | 4-chlorotoluene | 0.945 | 1.024 | -8.4 | 113 | 0.00 | 8.79 |
| 104 | | 1,3,5-trimethylbenzene | 3.434 | 3.547 | -3.3 | 105 | 0.00 | 8.74 |
| 105 | | tert-butylbenzene | 2.878 | 3.066 | -6.5 | 110 | 0.00 | 9.05 |
| 106 | | 1,2,4-trimethylbenzene | 3.514 | 3.549 | -1.0 | 105 | 0.00 | 9.11 |
| 107 | | sec-butylbenzene | 4.114 | 4.319 | -5.0 | 106 | 0.00 | 9.27 |
| 108 | | 1,3-dichlorobenzene | 1.714 | 1.823 | -6.4 | 111 | 0.00 | 9.39 |
| 109 | | p-isopropyltoluene | 3.244 | 3.393 | -4.6 | 106 | 0.00 | 9.41 |
| 110 | | 1,4-dichlorobenzene | 1.680 | 1.721 | -2.4 | 110 | 0.00 | 9.49 |
| 111 | | 1,2,3-trimethylbenzene | 3.335 | 3.310 | 0.7 | 102 | 0.00 | 9.51 |
| 112 | | 1,2-dichlorobenzene | 1.686 | 1.760 | -4.4 | 114 | 0.00 | 9.84 |
| 113 | | n-butylbenzene | 1.624 | 1.731 | -6.6 | 108 | 0.00 | 9.81 |
| 114 | | 1,2-dibromo-3-chloropropa | 0.395 | 0.338 | 14.4 | 89 | 0.00 | 10.62 |
| 115 | | 1,3,5-trichlorobenzene | 1.088 | 1.141 | -4.9 | 108 | 0.00 | 10.80 |
| 116 | | 1,2,4-trichlorobenzene | 0.881 | 0.919 | -4.3 | 104 | 0.00 | 11.43 |
| 117 | | hexachlorobutadiene | 0.353 | 0.362 | -2.5 | 104 | 0.00 | 11.57 |
| 118 | | naphthalene | 2.975 | 2.954 | 0.7 | 102 | 0.00 | 11.69 |
| 119 | | 1,2,3-trichlorobenzene | 0.798 | 0.839 | -5.1 | 106 | 0.00 | 11.91 |
| 120 | | hexachloroethane | 0.673 | 0.609 | 9.5 | 94 | 0.00 | 10.12 |
| 121 | | benzyl chloride | 2.904 | 2.554 | 12.1 | 89 | 0.00 | 9.60 |
| 122 | | 2-methylnaphthalene | 1.065 | 0.983 | 7.7 | 119 | 0.00 | 12.82 |
| 123 | | pentafluorobenzene(a) | 1.000 | 1.000 | 0.0 | 116 | 0.00 | 4.30 |
| 124 | | Freon 142B | | ----------NA---------- | | | | |
| 125 | | vinyl bromide | | ----------NA---------- | | | | |
| 126 | | allyl chloride | | ----------NA---------- | | | | |
| 127 | | 1,4-dichlorobenzene-d4(a) | 1.000 | 1.000 | 0.0 | 121 | 0.00 | 9.47 |
| 128 | | 4-ethyltoluene | | ----------NA---------- | | | | |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L342974.D ML10355.M Wed Oct 05 01:30:06 2022

# Run Sequence Report



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V1A9688 | **Method:** SW846 8260D | **Instrument ID:** GCMS1A |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V1A9688-BFB | 1A226121.D | 09/13/22 20:54 | n/a | BFB Tune |
| V1A9688-IC9688 | 1A226122.D | 09/13/22 21:28 | n/a | Initial cal 0.2 |
| V1A9688-IC9688 | 1A226123.D | 09/13/22 21:52 | n/a | Initial cal 0.5 |
| V1A9688-IC9688 | 1A226124.D | 09/13/22 22:16 | n/a | Initial cal 1 |
| V1A9688-IC9688 | 1A226125.D | 09/13/22 22:40 | n/a | Initial cal 2 |
| V1A9688-IC9688 | 1A226126.D | 09/13/22 23:04 | n/a | Initial cal 4 |
| V1A9688-IC9688 | 1A226127.D | 09/13/22 23:28 | n/a | Initial cal 8 |
| V1A9688-IC9688 | 1A226128.D | 09/13/22 23:52 | n/a | Initial cal 20 |
| V1A9688-ICC9688 | 1A226129.D | 09/14/22 00:16 | n/a | Initial cal 50 |
| V1A9688-IC9688 | 1A226130.D | 09/14/22 00:40 | n/a | Initial cal 100 |
| V1A9688-IC9688 | 1A226131.D | 09/14/22 01:04 | n/a | Initial cal 200 |
| V1A9688-ICV9688 | 1A226134.D | 09/14/22 02:15 | n/a | Initial cal verification 50 |
| V1A9688-ICV9688 | 1A226135.D | 09/14/22 02:39 | n/a | Initial cal verification 50 |

# Run Sequence Report



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Run ID:** V1A9698 **Method:** SW846 8260D **Instrument ID:** GCMS1A

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V1A9698-BFB | 1A226430.D | 09/27/22 09:36 | n/a | BFB Tune |
| V1A9698-CC9688 | 1A226430.D | 09/27/22 09:36 | n/a | Continuing cal 20 |
| V1A9698-BS | 1A226432.D | 09/27/22 10:32 | n/a | Blank Spike |
| V1A9698-MB | 1A226434.D | 09/27/22 11:28 | n/a | Method Blank |
| ZZZZZZ | 1A226435.D | 09/27/22 12:33 | n/a | (unrelated sample) |
| ZZZZZZ | 1A226436.D | 09/27/22 12:57 | n/a | (unrelated sample) |
| ZZZZZZ | 1A226437.D | 09/27/22 13:21 | n/a | (unrelated sample) |
| JD52310-3 | 1A226438.D | 09/27/22 13:45 | n/a | (used for QC only; not part of job JD52507) |
| ZZZZZZ | 1A226439.D | 09/27/22 14:09 | n/a | (unrelated sample) |
| ZZZZZZ | 1A226440.D | 09/27/22 14:33 | n/a | (unrelated sample) |
| ZZZZZZ | 1A226442.D | 09/27/22 15:21 | n/a | (unrelated sample) |
| ZZZZZZ | 1A226443.D | 09/27/22 15:45 | n/a | (unrelated sample) |
| JD52310-3MS | 1A226444.D | 09/27/22 16:24 | n/a | Matrix Spike |
| JD52310-3MSD | 1A226445.D | 09/27/22 16:48 | n/a | Matrix Spike Duplicate |
| ZZZZZZ | 1A226447.D | 09/27/22 17:36 | n/a | (unrelated sample) |
| ZZZZZZ | 1A226448.D | 09/27/22 18:00 | n/a | (unrelated sample) |
| ZZZZZZ | 1A226449.D | 09/27/22 18:24 | n/a | (unrelated sample) |
| JD52507-15 | 1A226450.D | 09/27/22 18:48 | n/a | MW-20B |
| JD52507-16 | 1A226451.D | 09/27/22 19:12 | n/a | MW-7B |
| JD52507-17 | 1A226452.D | 09/27/22 19:36 | n/a | MW-12C |
| JD52507-18 | 1A226453.D | 09/27/22 20:00 | n/a | MW-13C |
| JD52507-20 | 1A226455.D | 09/27/22 20:47 | n/a | MW-4B |
| JD52507-21 | 1A226456.D | 09/27/22 21:11 | n/a | MW-7-40 |
| ZZZZZZ | 1A226457.D | 09/27/22 21:35 | n/a | (unrelated sample) |

# Run Sequence Report



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Run ID:** V1A9705 **Method:** SW846 8260D **Instrument ID:** GCMS1A

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V1A9705-BFB | 1A226605.D | 09/30/22 10:42 | n/a | BFB Tune |
| V1A9705-CC9688 | 1A226605.D | 09/30/22 10:42 | n/a | Continuing cal 20 |
| V1A9705-BS | 1A226607.D | 09/30/22 11:38 | n/a | Blank Spike |
| V1A9705-MB | 1A226609.D | 09/30/22 12:29 | n/a | Method Blank |
| ZZZZZZ | 1A226611.D | 09/30/22 13:22 | n/a | (unrelated sample) |
| ZZZZZZ | 1A226612.D | 09/30/22 13:46 | n/a | (unrelated sample) |
| JD52507-10 | 1A226613.D | 09/30/22 14:09 | n/a | MW-46-72C |
| JD52507-8 | 1A226614.D | 09/30/22 14:33 | n/a | MW-15C |
| ZZZZZZ | 1A226615.D | 09/30/22 14:57 | n/a | (unrelated sample) |
| ZZZZZZ | 1A226616.D | 09/30/22 15:21 | n/a | (unrelated sample) |
| JD52507-8 | 1A226617.D | 09/30/22 15:45 | n/a | MW-15C |
| JD52507-10 | 1A226618.D | 09/30/22 16:09 | n/a | MW-46-72C |
| JD52624-3 | 1A226619.D | 09/30/22 16:33 | n/a | (used for QC only; not part of job JD52507) |
| JD52624-3MS | 1A226620.D | 09/30/22 16:56 | n/a | Matrix Spike |
| JD52624-3MSD | 1A226621.D | 09/30/22 17:20 | n/a | Matrix Spike Duplicate |
| ZZZZZZ | 1A226623.D | 09/30/22 18:08 | n/a | (unrelated sample) |
| ZZZZZZ | 1A226624.D | 09/30/22 18:32 | n/a | (unrelated sample) |
| ZZZZZZ | 1A226626.D | 09/30/22 19:20 | n/a | (unrelated sample) |
| ZZZZZZ | 1A226628.D | 09/30/22 20:08 | n/a | (unrelated sample) |
| ZZZZZZ | 1A226629.D | 09/30/22 20:32 | n/a | (unrelated sample) |
| ZZZZZZ | 1A226630.D | 09/30/22 20:55 | n/a | (unrelated sample) |
| ZZZZZZ | 1A226631.D | 09/30/22 21:19 | n/a | (unrelated sample) |
| ZZZZZZ | 1A226632.D | 09/30/22 21:43 | n/a | (unrelated sample) |
| ZZZZZZ | 1A226633.D | 09/30/22 22:07 | n/a | (unrelated sample) |

# Run Sequence Report



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V1X8636 | **Method:** SW846 8260D | **Instrument ID:** GCMS1X |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V1X8636-BFB | 1X200546.D | 09/28/22 20:11 | n/a | BFB Tune |
| V1X8636-IC8636 | 1X200548.D | 09/28/22 21:15 | n/a | Initial cal 0.2 |
| V1X8636-IC8636 | 1X200550.D | 09/28/22 21:47 | n/a | Initial cal 0.5 |
| V1X8636-IC8636 | 1X200552.D | 09/28/22 22:23 | n/a | Initial cal 1 |
| V1X8636-IC8636 | 1X200554.D | 09/28/22 23:00 | n/a | Initial cal 2 |
| V1X8636-IC8636 | 1X200556.D | 09/28/22 23:36 | n/a | Initial cal 4 |
| V1X8636-IC8636 | 1X200558.D | 09/29/22 00:12 | n/a | Initial cal 8 |
| V1X8636-IC8636 | 1X200560.D | 09/29/22 00:48 | n/a | Initial cal 20 |
| V1X8636-ICC8636 | 1X200562.D | 09/29/22 01:25 | n/a | Initial cal 50 |
| V1X8636-IC8636 | 1X200564.D | 09/29/22 02:01 | n/a | Initial cal 100 |
| V1X8636-IC8636 | 1X200566.D | 09/29/22 02:37 | n/a | Initial cal 200 |
| V1X8636-ICV8636 | 1X200572.D | 09/29/22 04:25 | n/a | Initial cal verification 50 |
| V1X8636-ICV8636 | 1X200574.D | 09/29/22 05:02 | n/a | Initial cal verification 50 |

# Run Sequence Report



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V1X8637 | **Method:** SW846 8260D | **Instrument ID:** GCMS1X |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V1X8637-BFB | 1X200580.D | 09/29/22 10:06 | n/a | BFB Tune |
| V1X8637-CC8636 | 1X200580.D | 09/29/22 10:06 | n/a | Continuing cal 20 |
| V1X8637-BS | 1X200581.D | 09/29/22 10:34 | n/a | Blank Spike |
| V1X8637-MB | 1X200583.D | 09/29/22 11:20 | n/a | Method Blank |
| JD52594-1 | 1X200584.D | 09/29/22 11:43 | n/a | (used for QC only; not part of job JD52507) |
| JD52507-18 | 1X200585.D | 09/29/22 12:06 | n/a | MW-13C |
| ZZZZZZ | 1X200586.D | 09/29/22 12:30 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200587.D | 09/29/22 12:53 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200589.D | 09/29/22 13:39 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200590.D | 09/29/22 14:03 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200591.D | 09/29/22 14:26 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200592.D | 09/29/22 14:49 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200593.D | 09/29/22 15:12 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200594.D | 09/29/22 15:36 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200595.D | 09/29/22 15:59 | n/a | (unrelated sample) |
| JD52594-1MS | 1X200596.D | 09/29/22 16:22 | n/a | Matrix Spike |
| JD52594-1MSD | 1X200597.D | 09/29/22 16:45 | n/a | Matrix Spike Duplicate |
| JD52594-1 | 1X200598.D | 09/29/22 17:08 | n/a | (used for QC only; not part of job JD52507) |
| JD52507-19 | 1X200599.D | 09/29/22 17:32 | n/a | MW-5-100 |
| ZZZZZZ | 1X200600.D | 09/29/22 17:55 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200601.D | 09/29/22 18:18 | n/a | (unrelated sample) |
| JD52507-22 | 1X200602.D | 09/29/22 18:41 | n/a | MW-16-100 |
| ZZZZZZ | 1X200603.D | 09/29/22 19:04 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200604.D | 09/29/22 19:28 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200605.D | 09/29/22 19:51 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200606.D | 09/29/22 20:14 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200607.D | 09/29/22 20:37 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200608.D | 09/29/22 21:01 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200609.D | 09/29/22 21:24 | n/a | (unrelated sample) |

# Run Sequence Report



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

**Run ID:** V1X8638 **Method:** EPA 624.1 **Instrument ID:** GCMS1X

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V1X8638-BFB | 1X200611.D | 09/29/22 22:10 | n/a | BFB Tune |
| V1X8638-CC8636 | 1X200612.D | 09/29/22 22:33 | n/a | Continuing cal 20 |
| V1X8638-BS | 1X200612.D | 09/29/22 22:33 | n/a | Blank Spike |
| V1X8638-MB | 1X200614.D | 09/29/22 23:20 | n/a | Method Blank |
| JD52604-4 | 1X200615.D | 09/29/22 23:43 | n/a | (used for QC only; not part of job JD52507) |
| JD52604-4MS | 1X200616.D | 09/30/22 00:06 | n/a | Matrix Spike |
| JD52604-4MSD | 1X200617.D | 09/30/22 00:29 | n/a | Matrix Spike Duplicate |
| ZZZZZZ | 1X200619.D | 09/30/22 01:16 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200620.D | 09/30/22 01:39 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200621.D | 09/30/22 02:02 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200622.D | 09/30/22 02:25 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200623.D | 09/30/22 02:48 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200624.D | 09/30/22 03:11 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200625.D | 09/30/22 03:35 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200626.D | 09/30/22 03:58 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200627.D | 09/30/22 04:21 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200628.D | 09/30/22 04:44 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200630.D | 09/30/22 05:30 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200631.D | 09/30/22 05:54 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200632.D | 09/30/22 06:17 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200633.D | 09/30/22 06:40 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200634.D | 09/30/22 07:03 | n/a | (unrelated sample) |
| ZZZZZZ | 1X200635.D | 09/30/22 07:26 | n/a | (unrelated sample) |

# Run Sequence Report



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V2A9511 | **Method:** SW846 8260D | **Instrument ID:** GCMS2A |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2A9511-BFB | 2A218780.D | 07/31/22 16:50 | n/a | BFB Tune |
| V2A9511-IC9511 | 2A218781.D | 07/31/22 17:23 | n/a | Initial cal 0.2 |
| V2A9511-IC9511 | 2A218782.D | 07/31/22 17:51 | n/a | Initial cal 0.5 |
| V2A9511-IC9511 | 2A218783.D | 07/31/22 18:19 | n/a | Initial cal 1 |
| V2A9511-IC9511 | 2A218784.D | 07/31/22 18:48 | n/a | Initial cal 2 |
| V2A9511-IC9511 | 2A218785.D | 07/31/22 19:16 | n/a | Initial cal 4 |
| V2A9511-IC9511 | 2A218786.D | 07/31/22 19:44 | n/a | Initial cal 8 |
| V2A9511-IC9511 | 2A218787.D | 07/31/22 20:13 | n/a | Initial cal 20 |
| V2A9511-ICC9511 | 2A218788.D | 07/31/22 20:41 | n/a | Initial cal 50 |
| V2A9511-IC9511 | 2A218789.D | 07/31/22 21:09 | n/a | Initial cal 100 |
| V2A9511-IC9511 | 2A218790.D | 07/31/22 21:38 | n/a | Initial cal 200 |
| V2A9511-ICV9511 | 2A218793.D | 07/31/22 23:03 | n/a | Initial cal verification 50 |
| V2A9511-ICV9511 | 2A218794.D | 07/31/22 23:31 | n/a | Initial cal verification 50 |

# Run Sequence Report



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V2A9581 | **Method:** SW846 8260D | **Instrument ID:** GCMS2A |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2A9581-BFB | 2A220390.D | 09/29/22 09:13 | n/a | BFB Tune |
| V2A9581-CC9511 | 2A220390.D | 09/29/22 09:13 | n/a | Continuing cal 20 |
| V2A9581-BS | 2A220392.D | 09/29/22 10:19 | n/a | Blank Spike |
| V2A9581-MB | 2A220394.D | 09/29/22 11:16 | n/a | Method Blank |
| JD50917-15 | 2A220395.D | 09/29/22 11:44 | n/a | (used for QC only; not part of job JD52507) |
| ZZZZZZ | 2A220396.D | 09/29/22 12:13 | n/a | (unrelated sample) |
| ZZZZZZ | 2A220397.D | 09/29/22 12:42 | n/a | (unrelated sample) |
| JD52507-3 | 2A220398.D | 09/29/22 13:11 | n/a | MW-5-40 |
| ZZZZZZ | 2A220399.D | 09/29/22 13:40 | n/a | (unrelated sample) |
| JD50917-15MS | 2A220400.D | 09/29/22 14:08 | n/a | Matrix Spike |
| JD50917-15MSD | 2A220401.D | 09/29/22 14:37 | n/a | Matrix Spike Duplicate |
| ZZZZZZ | 2A220402.D | 09/29/22 15:06 | n/a | (unrelated sample) |
| ZZZZZZ | 2A220403.D | 09/29/22 15:35 | n/a | (unrelated sample) |
| ZZZZZZ | 2A220405.D | 09/29/22 16:32 | n/a | (unrelated sample) |
| ZZZZZZ | 2A220406.D | 09/29/22 17:00 | n/a | (unrelated sample) |
| ZZZZZZ | 2A220407.D | 09/29/22 17:29 | n/a | (unrelated sample) |
| ZZZZZZ | 2A220409.D | 09/29/22 18:27 | n/a | (unrelated sample) |
| ZZZZZZ | 2A220410.D | 09/29/22 18:56 | n/a | (unrelated sample) |
| ZZZZZZ | 2A220411.D | 09/29/22 19:24 | n/a | (unrelated sample) |
| ZZZZZZ | 2A220412.D | 09/29/22 19:53 | n/a | (unrelated sample) |

# Run Sequence Report



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V2A9583 | **Method:** SW846 8260D | **Instrument ID:** GCMS2A |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2A9583-BFB | 2A220438.D | 09/30/22 09:16 | n/a | BFB Tune |
| V2A9583-CC9511 | 2A220438.D | 09/30/22 09:16 | n/a | Continuing cal 20 |
| V2A9583-BS | 2A220440.D | 09/30/22 10:21 | n/a | Blank Spike |
| V2A9583-MB | 2A220442.D | 09/30/22 11:18 | n/a | Method Blank |
| JD52507-12 | 2A220444.D | 09/30/22 12:15 | n/a | MW-50-160D |
| JD52507-13 | 2A220446.D | 09/30/22 13:12 | n/a | MW-092022 |
| JD52514-12 | 2A220447.D | 09/30/22 13:40 | n/a | (used for QC only; not part of job JD52507) |
| JD52514-12 | 2A220449.D | 09/30/22 14:37 | n/a | (used for QC only; not part of job JD52507) |
| ZZZZZZ | 2A220450.D | 09/30/22 15:06 | n/a | (unrelated sample) |
| JD52514-12MS | 2A220451.D | 09/30/22 15:35 | n/a | Matrix Spike |
| JD52514-12MSD | 2A220452.D | 09/30/22 16:03 | n/a | Matrix Spike Duplicate |
| ZZZZZZ | 2A220454.D | 09/30/22 17:01 | n/a | (unrelated sample) |
| ZZZZZZ | 2A220455.D | 09/30/22 17:30 | n/a | (unrelated sample) |
| ZZZZZZ | 2A220456.D | 09/30/22 17:58 | n/a | (unrelated sample) |

# Run Sequence Report



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V2V3747 | **Method:** SW846 8260D | **Instrument ID:** GCMS2V |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2V3747-BFB | 2V92136.D | 09/11/22 14:53 | n/a | BFB Tune |
| V2V3747-IC3747 | 2V92138.D | 09/11/22 15:36 | n/a | Initial cal 0.2 |
| V2V3747-IC3747 | 2V92140.D | 09/11/22 16:05 | n/a | Initial cal 0.5 |
| V2V3747-IC3747 | 2V92142.D | 09/11/22 16:35 | n/a | Initial cal 1 |
| V2V3747-IC3747 | 2V92144.D | 09/11/22 17:04 | n/a | Initial cal 2 |
| V2V3747-IC3747 | 2V92146.D | 09/11/22 17:33 | n/a | Initial cal 4 |
| V2V3747-IC3747 | 2V92148.D | 09/11/22 18:02 | n/a | Initial cal 8 |
| V2V3747-IC3747 | 2V92150.D | 09/11/22 18:32 | n/a | Initial cal 20 |
| V2V3747-ICC3747 | 2V92152.D | 09/11/22 19:01 | n/a | Initial cal 50 |
| V2V3747-IC3747 | 2V92154.D | 09/11/22 19:30 | n/a | Initial cal 100 |
| V2V3747-IC3747 | 2V92156.D | 09/11/22 20:00 | n/a | Initial cal 200 |
| V2V3747-ICV3747 | 2V92162.D | 09/11/22 21:28 | n/a | Initial cal verification 50 |
| V2V3747-ICV3747 | 2V92164.D | 09/11/22 21:57 | n/a | Initial cal verification 50 |

# Run Sequence Report



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V2V3773 | **Method:** SW846 8260D | **Instrument ID:** GCMS2V |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2V3773-BFB | 2V92880.D | 09/27/22 21:00 | n/a | BFB Tune |
| V2V3773-CC3747 | 2V92880.D | 09/27/22 21:00 | n/a | Continuing cal 50 |
| V2V3773-BS | 2V92882.D | 09/27/22 21:47 | n/a | Blank Spike |
| V2V3773-MB | 2V92884.D | 09/27/22 22:33 | n/a | Method Blank |
| JD52507-6 | 2V92885.D | 09/27/22 22:57 | n/a | EXB-10 |
| JD52507-6MS | 2V92886.D | 09/27/22 23:20 | n/a | Matrix Spike |
| JD52507-6MSD | 2V92887.D | 09/27/22 23:43 | n/a | Matrix Spike Duplicate |
| JD52507-2 | 2V92889.D | 09/28/22 00:30 | n/a | EB-091922 |
| ZZZZZZ | 2V92890.D | 09/28/22 00:53 | n/a | (unrelated sample) |
| JD52507-1 | 2V92891.D | 09/28/22 01:16 | n/a | EXB-9 |
| JD52507-3 | 2V92892.D | 09/28/22 01:39 | n/a | MW-5-40 |
| JD52507-4 | 2V92893.D | 09/28/22 02:03 | n/a | MW-5-25 |
| JD52507-5 | 2V92894.D | 09/28/22 02:26 | n/a | MW-8B |
| JD52507-7 | 2V92895.D | 09/28/22 02:49 | n/a | MW-32B |
| ZZZZZZ | 2V92899.D | 09/28/22 04:22 | n/a | (unrelated sample) |
| ZZZZZZ | 2V92900.D | 09/28/22 04:45 | n/a | (unrelated sample) |
| ZZZZZZ | 2V92901.D | 09/28/22 05:09 | n/a | (unrelated sample) |
| ZZZZZZ | 2V92902.D | 09/28/22 05:32 | n/a | (unrelated sample) |
| ZZZZZZ | 2V92903.D | 09/28/22 05:55 | n/a | (unrelated sample) |
| ZZZZZZ | 2V92904.D | 09/28/22 06:18 | n/a | (unrelated sample) |
| ZZZZZZ | 2V92905.D | 09/28/22 06:42 | n/a | (unrelated sample) |
| ZZZZZZ | 2V92906.D | 09/28/22 07:05 | n/a | (unrelated sample) |
| ZZZZZZ | 2V92907.D | 09/28/22 07:28 | n/a | (unrelated sample) |

# Run Sequence Report



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V2V3777 | **Method:** SW846 8260D | **Instrument ID:** GCMS2V |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2V3777-BFB | 2V93000.D | 09/29/22 21:38 | n/a | BFB Tune |
| V2V3777-CC3747 | 2V93000.D | 09/29/22 21:38 | n/a | Continuing cal 50 |
| V2V3777-BS | 2V93002.D | 09/29/22 22:25 | n/a | Blank Spike |
| V2V3777-MB | 2V93004.D | 09/29/22 23:11 | n/a | Method Blank |
| JD52507-10 | 2V93005.D | 09/29/22 23:35 | n/a | MW-46-72C |
| JD52507-10MS | 2V93006.D | 09/29/22 23:58 | n/a | Matrix Spike |
| JD52507-10MSD | 2V93007.D | 09/30/22 00:21 | n/a | Matrix Spike Duplicate |
| JD52507-14 | 2V93009.D | 09/30/22 01:08 | n/a | EB-092022 |
| JD52507-23 | 2V93010.D | 09/30/22 01:31 | n/a | EB-092222 |
| JD52507-33 | 2V93011.D | 09/30/22 01:54 | n/a | EB-092222 |
| JD52507-36 | 2V93012.D | 09/30/22 02:17 | n/a | TRIP BLANK |
| JD52507-9 | 2V93013.D | 09/30/22 02:41 | n/a | MW-36B |
| JD52507-11 | 2V93014.D | 09/30/22 03:04 | n/a | MW-46-43C |
| JD52507-12 | 2V93015.D | 09/30/22 03:27 | n/a | MW-50-160D |
| JD52507-13 | 2V93016.D | 09/30/22 03:50 | n/a | MW-092022 |
| JD52507-24 | 2V93017.D | 09/30/22 04:14 | n/a | MW-18A |
| JD52507-25 | 2V93018.D | 09/30/22 04:37 | n/a | MW-8-40 |
| JD52507-26 | 2V93019.D | 09/30/22 05:00 | n/a | MW-22B |
| JD52507-27 | 2V93020.D | 09/30/22 05:23 | n/a | MW-1B |
| JD52507-28 | 2V93021.D | 09/30/22 05:46 | n/a | MW-092222 |
| JD52507-29 | 2V93022.D | 09/30/22 06:09 | n/a | MW-2B |
| JD52507-30 | 2V93023.D | 09/30/22 06:32 | n/a | MW-3B |
| JD52507-31 | 2V93024.D | 09/30/22 06:55 | n/a | MW-5B |

# Run Sequence Report



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** V2V3782 | **Method:** SW846 8260D | **Instrument ID:** GCMS2V |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| V2V3782-BFB | 2V93125.D | 10/03/22 11:49 | n/a | BFB Tune |
| V2V3782-CC3747 | 2V93125.D | 10/03/22 11:49 | n/a | Continuing cal 20 |
| V2V3782-BS | 2V93126.D | 10/03/22 12:18 | n/a | Blank Spike |
| V2V3782-MB | 2V93128.D | 10/03/22 13:04 | n/a | Method Blank |
| ZZZZZZ | 2V93129.D | 10/03/22 13:28 | n/a | (unrelated sample) |
| JD52507-31 | 2V93130.D | 10/03/22 13:51 | n/a | MW-5B |
| JD52507-30 | 2V93131.D | 10/03/22 14:14 | n/a | MW-3B |
| ZZZZZZ | 2V93132.D | 10/03/22 14:37 | n/a | (unrelated sample) |
| JD52730-7 | 2V93134.D | 10/03/22 15:24 | n/a | (used for QC only; not part of job JD52507) |
| ZZZZZZ | 2V93135.D | 10/03/22 15:47 | n/a | (unrelated sample) |
| JD52507-32 | 2V93136.D | 10/03/22 16:10 | n/a | MW-17-40 |
| JD52507-34 | 2V93137.D | 10/03/22 16:33 | n/a | MW-26A |
| ZZZZZZ | 2V93138.D | 10/03/22 16:57 | n/a | (unrelated sample) |
| ZZZZZZ | 2V93139.D | 10/03/22 17:20 | n/a | (unrelated sample) |
| JD52730-7MS | 2V93140.D | 10/03/22 17:43 | n/a | Matrix Spike |
| JD52730-7MSD | 2V93141.D | 10/03/22 18:07 | n/a | Matrix Spike Duplicate |
| JD52507-30 | 2V93142.D | 10/03/22 18:30 | n/a | MW-3B |
| ZZZZZZ | 2V93144.D | 10/03/22 19:16 | n/a | (unrelated sample) |
| ZZZZZZ | 2V93145.D | 10/03/22 19:39 | n/a | (unrelated sample) |
| JD52507-35 | 2V93146.D | 10/03/22 20:03 | n/a | MW-25A |
| ZZZZZZ | 2V93147.D | 10/03/22 20:26 | n/a | (unrelated sample) |
| ZZZZZZ | 2V93148.D | 10/03/22 20:49 | n/a | (unrelated sample) |
| ZZZZZZ | 2V93149.D | 10/03/22 21:13 | n/a | (unrelated sample) |
| ZZZZZZ | 2V93150.D | 10/03/22 21:36 | n/a | (unrelated sample) |
| ZZZZZZ | 2V93151.D | 10/03/22 21:59 | n/a | (unrelated sample) |
| ZZZZZZ | 2V93152.D | 10/03/22 22:23 | n/a | (unrelated sample) |

# Run Sequence Report



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** VL10355 | **Method:** SW846 8260D | **Instrument ID:** GCMSL |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| VL10355-BFB | L342967.D | 06/15/22 16:00 | n/a | BFB Tune |
| VL10355-IC10355 | L342968.D | 06/15/22 16:25 | n/a | Initial cal 0.2 |
| VL10355-IC10355 | L342969.D | 06/15/22 16:48 | n/a | Initial cal 0.5 |
| VL10355-IC10355 | L342970.D | 06/15/22 17:11 | n/a | Initial cal 1 |
| VL10355-IC10355 | L342971.D | 06/15/22 17:35 | n/a | Initial cal 2 |
| VL10355-IC10355 | L342972.D | 06/15/22 17:58 | n/a | Initial cal 4 |
| VL10355-IC10355 | L342973.D | 06/15/22 18:22 | n/a | Initial cal 8 |
| VL10355-IC10355 | L342974.D | 06/15/22 18:45 | n/a | Initial cal 20 |
| VL10355-ICC10355 | L342975.D | 06/15/22 19:09 | n/a | Initial cal 50 |
| VL10355-IC10355 | L342976.D | 06/15/22 19:32 | n/a | Initial cal 100 |
| VL10355-IC10355 | L342977.D | 06/15/22 19:56 | n/a | Initial cal 200 |
| VL10355-ICV10355 | L342980.D | 06/15/22 21:06 | n/a | Initial cal verification 50 |
| VL10355-ICV10355 | L342981.D | 06/15/22 21:29 | n/a | Initial cal verification 50 |
| VL10355-BFB2 | L342984.D | 06/16/22 09:43 | n/a | BFB Tune |
| VL10355-ICV10355 | L342985.D | 06/16/22 10:06 | n/a | Initial cal verification 50 |

# Run Sequence Report



**Job Number:** JD52507
**Account:** ESCVAR WSP USA Environment & Infrastructure Inc
**Project:** EPT, Ithaca, NY

| **Run ID:** VL10519 | **Method:** SW846 8260D | **Instrument ID:** GCMSL |
|---|---|---|

| Lab Sample ID | Lab File ID | Date/Time Analyzed | Prep QC Batch | Client Sample ID |
|---|---|---|---|---|
| VL10519-BFB | L347829.D | 10/04/22 10:21 | n/a | BFB Tune |
| VL10519-CC10355 | L347829.D | 10/04/22 10:21 | n/a | Continuing cal 20 |
| VL10519-BS | L347831.D | 10/04/22 11:19 | n/a | Blank Spike |
| VL10519-BSD | L347832.D | 10/04/22 11:42 | n/a | Blank Spike Duplicate |
| VL10519-MB | L347834.D | 10/04/22 12:29 | n/a | Method Blank |
| JD52507-37 | L347836.D | 10/04/22 13:25 | n/a | EXB-11 |
| JD52507-37 | L347837.D | 10/04/22 13:48 | n/a | EXB-11 |
| ZZZZZZ | L347838.D | 10/04/22 14:11 | n/a | (unrelated sample) |
| ZZZZZZ | L347839.D | 10/04/22 14:34 | n/a | (unrelated sample) |
| ZZZZZZ | L347840.D | 10/04/22 14:58 | n/a | (unrelated sample) |
| ZZZZZZ | L347841.D | 10/04/22 15:21 | n/a | (unrelated sample) |
| ZZZZZZ | L347842.D | 10/04/22 15:44 | n/a | (unrelated sample) |
| ZZZZZZ | L347843.D | 10/04/22 16:07 | n/a | (unrelated sample) |
| ZZZZZZ | L347844.D | 10/04/22 16:31 | n/a | (unrelated sample) |
| ZZZZZZ | L347845.D | 10/04/22 16:54 | n/a | (unrelated sample) |
| ZZZZZZ | L347846.D | 10/04/22 17:17 | n/a | (unrelated sample) |
| JD52507-37MS | L347847.D | 10/04/22 17:40 | n/a | Matrix Spike |
| JD52507-37MSD | L347848.D | 10/04/22 18:03 | n/a | Matrix Spike Duplicate |
| ZZZZZZ | L347850.D | 10/04/22 18:50 | n/a | (unrelated sample) |
| ZZZZZZ | L347851.D | 10/04/22 19:13 | n/a | (unrelated sample) |
| ZZZZZZ | L347852.D | 10/04/22 19:36 | n/a | (unrelated sample) |
| ZZZZZZ | L347853.D | 10/04/22 20:00 | n/a | (unrelated sample) |
| ZZZZZZ | L347854.D | 10/04/22 20:23 | n/a | (unrelated sample) |
| ZZZZZZ | L347858.D | 10/04/22 21:56 | n/a | (unrelated sample) |

## MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92891.d
Acq On : 28 Sep 2022 1:16 am
Operator : KYLEM
Sample : jd52507-1
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Sep 28 12:43:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

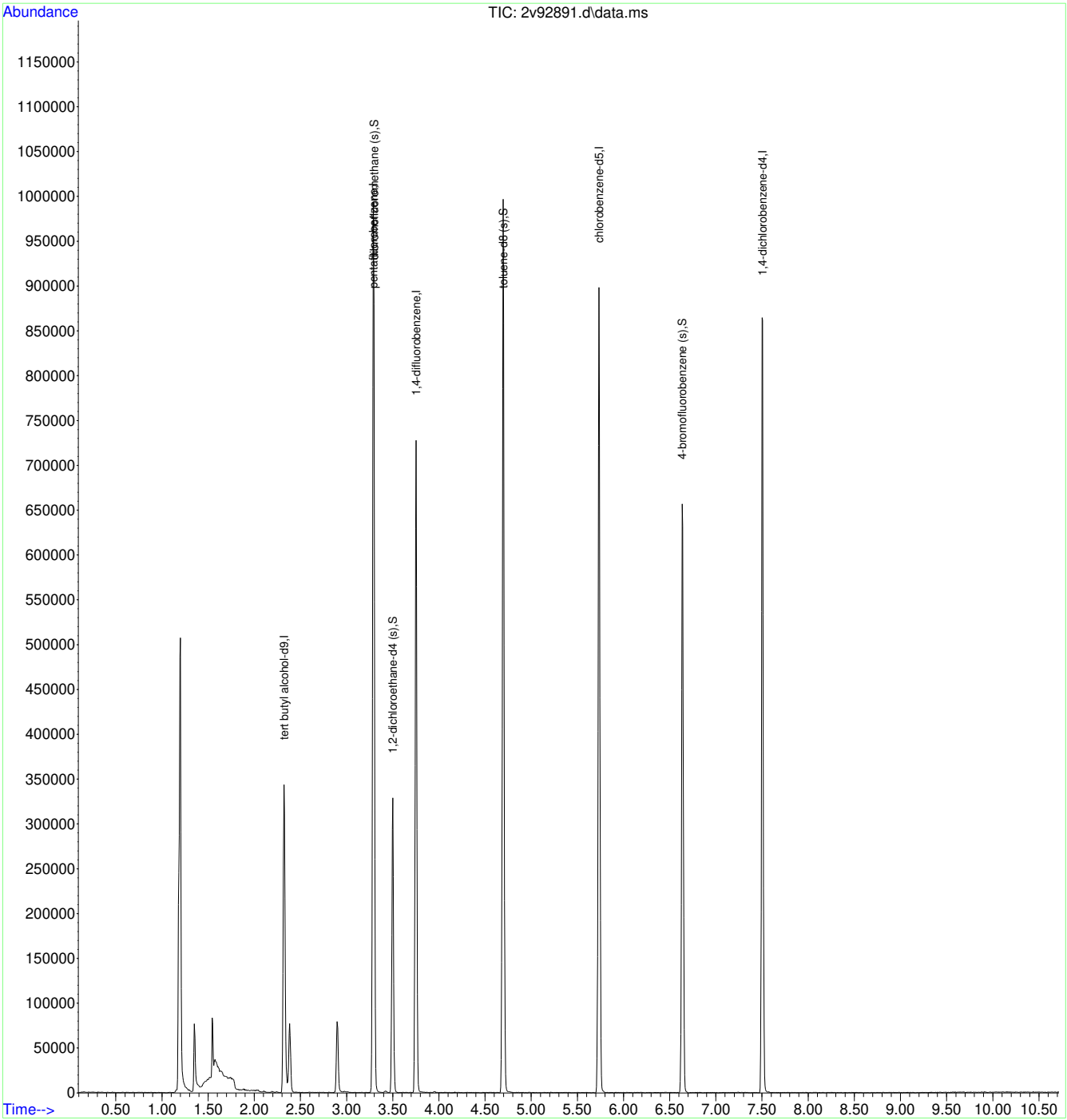
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 259115 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.291 | 168 | 304001 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 420891 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 386386 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 173568 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.296 | 113 | 152014 | 50.15 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.30% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.501 | 65 | 141331 | 47.36 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 94.72% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 483525 | 50.84 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.68% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 148942 | 48.06 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.12% | | | |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92891.d
Acq On : 28 Sep 2022 1:16 am
Operator : KYLEM
Sample : jd52507-1
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Sep 28 12:43:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92889.d
Acq On : 28 Sep 2022 12:30 am
Operator : KYLEM
Sample : jd52507-2
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Sep 28 12:08:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

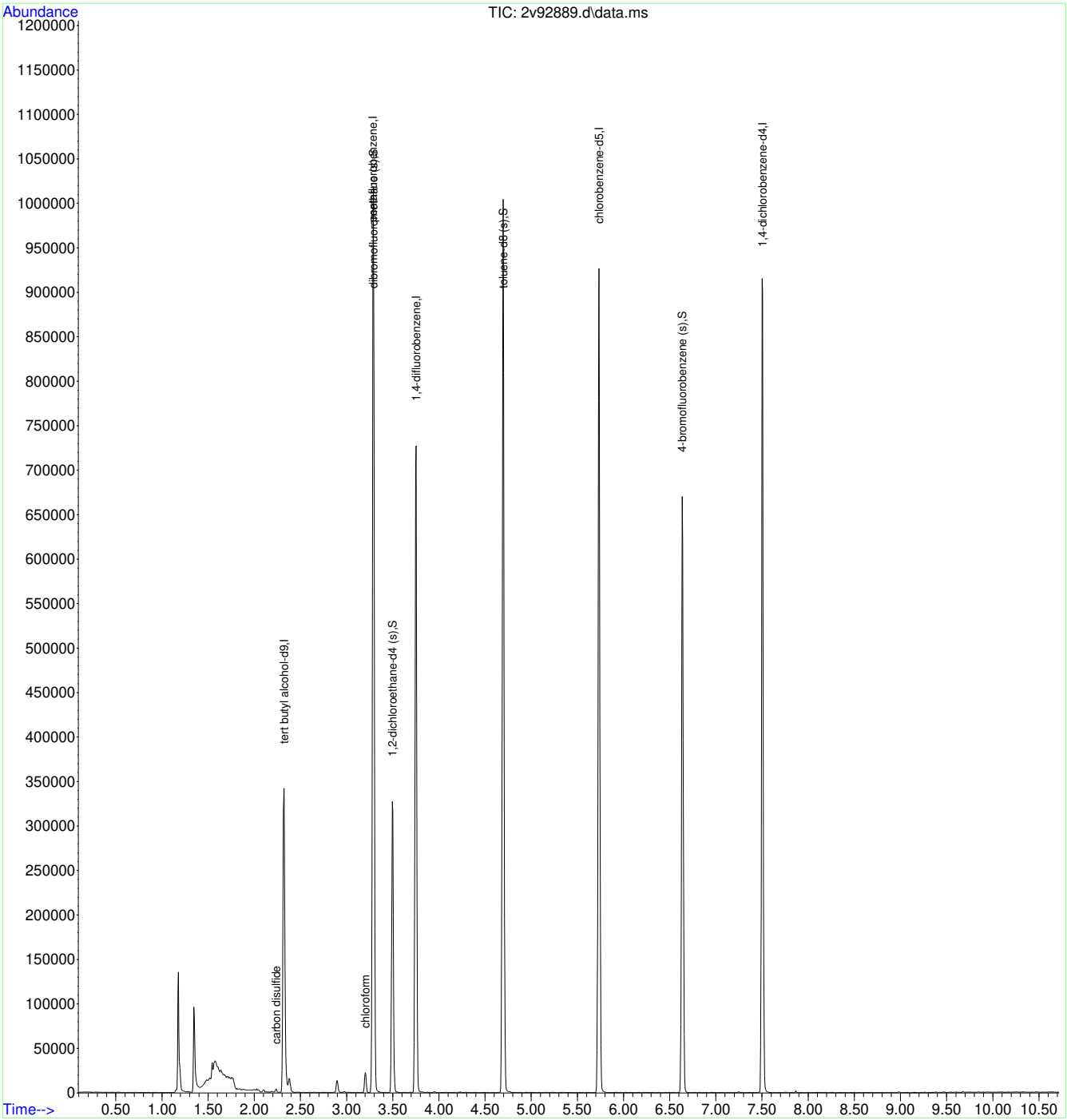
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 262754 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 309123 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 430501 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 390501 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 179945 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 155132 | 50.33 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.66% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 146457 | 47.98 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 95.96% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 491763 | 51.16 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.32% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 147547 | 45.92 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 91.84% | | | |
| Target Compounds | | | | | | Qvalue |
| 21) carbon disulfide | 2.237 | 76 | 3395 | 0.49 | ug/L | 88 |
| 41) chloroform | 3.202 | 83 | 11218 | 2.04 | ug/L | 93 |

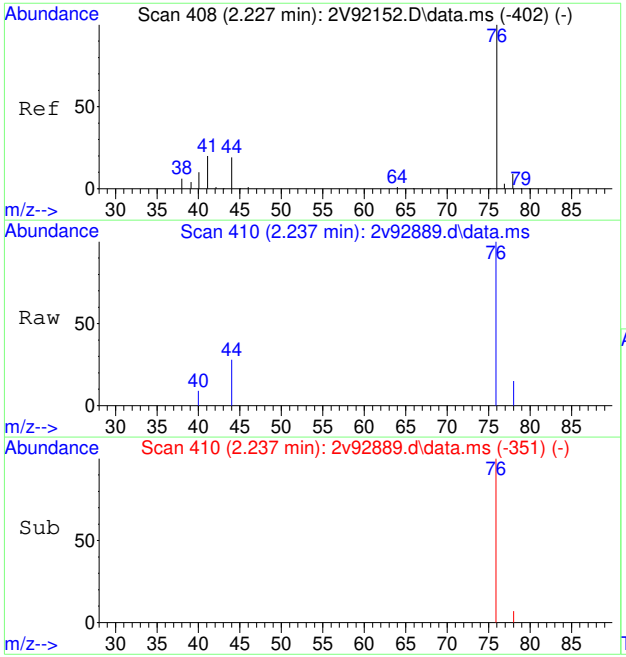
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92889.d
Acq On : 28 Sep 2022 12:30 am
Operator : KYLEM
Sample : jd52507-2
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Sep 28 12:08:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

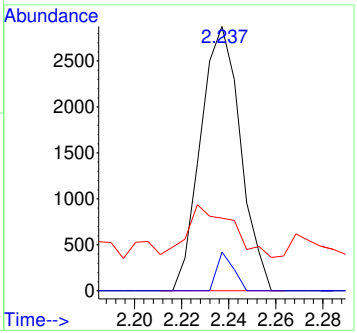


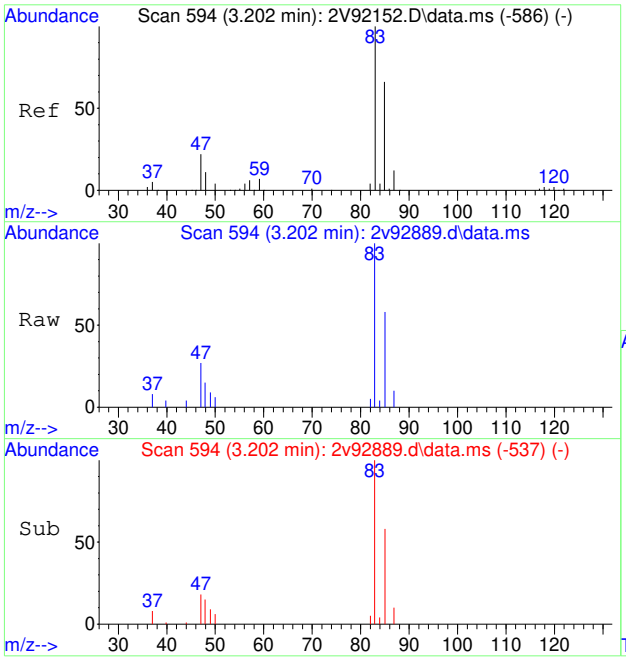



#21
carbon disulfide
Concen: 0.49 ug/L
RT: 2.237 min Scan# 410
Delta R.T. 0.010 min
Lab File: 2v92889.d
Acq: 28 Sep 2022 12:30 am

Tgt Ion: 76 Resp: 3395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 14.7 | 0.0 | 39.3 |
| 44 | 14.3 | 0.0 | 49.2 |

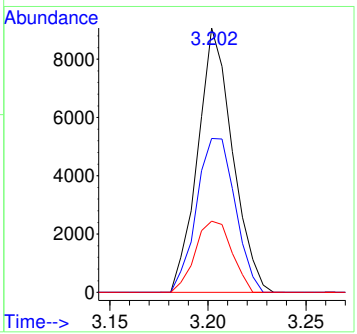



#41
chloroform
Concen: 2.04 ug/L
RT: 3.202 min Scan# 594
Delta R.T. -0.000 min
Lab File: 2v92889.d
Acq: 28 Sep 2022 12:30 am

Tgt Ion: 83 Resp: 11218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 58.2 | 35.9 | 95.9 |
| 47 | 26.9 | 0.0 | 56.5 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220398.d
Acq On : 29 Sep 2022 1:11 pm
Operator : nicoleh
Sample : jd52507-3 Inst : GCMS2A
Misc : MS62506,V2A9581,5,,,,10
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 02 22:59:03 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

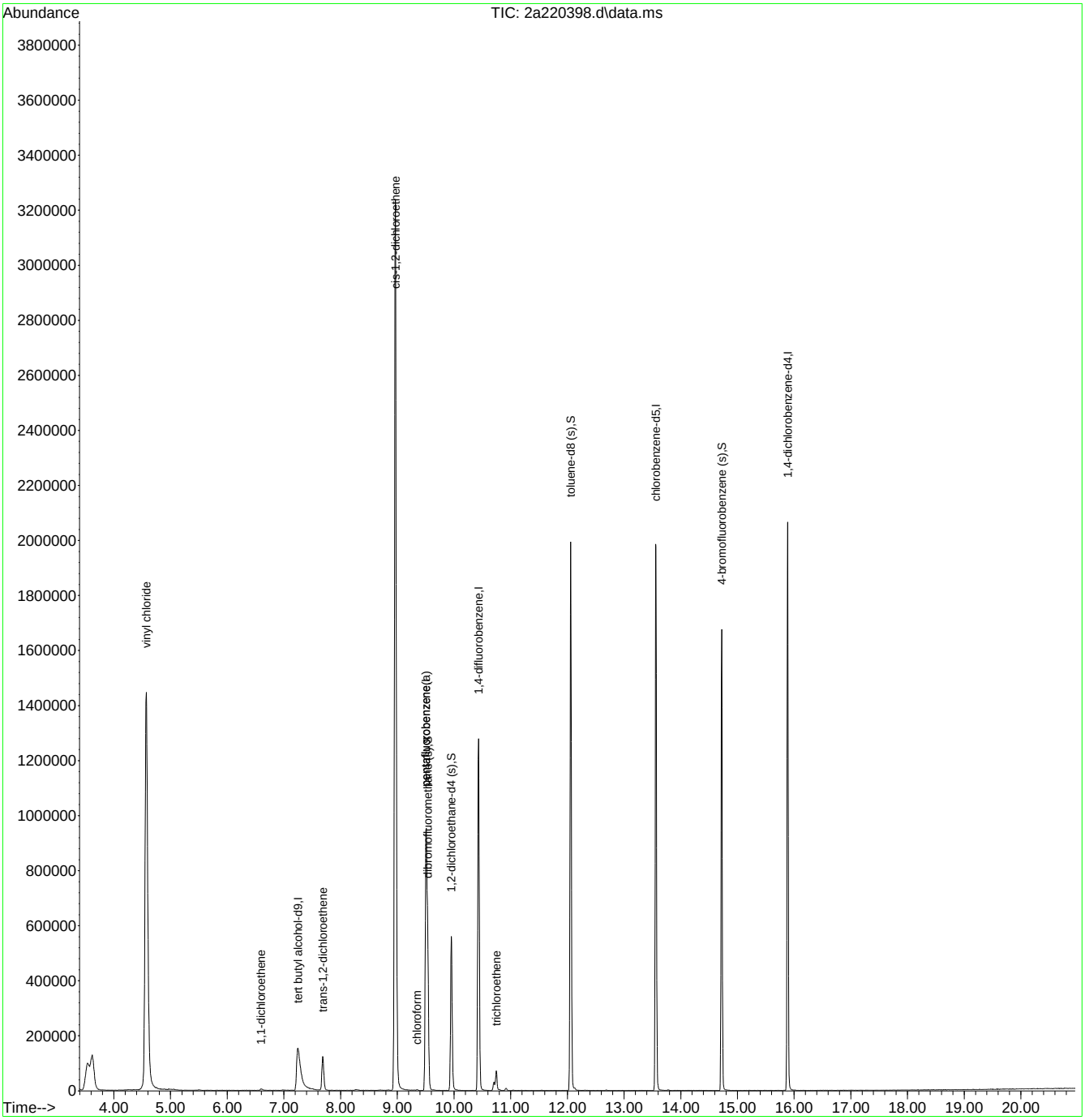
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.246 | 65 | 443314 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.505 | 168 | 682677 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.433 | 114 | 1029103 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.563 | 117 | 988712 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 470514 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.505 | 168 | 681677 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 338316 | 52.65 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 105.30% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.951 | 65 | 412694 | 43.14 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 86.28% | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 1187231 | 49.02 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.04% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 485545 | 55.78 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 111.56% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 4.572 | 62 | 2939422 | 323.91 | ug/L | 100 |
| 17) 1,1-dichloroethene | 6.595 | 96 | 2959 | 0.58 | ug/L # | 55 |
| 25) trans-1,2-dichloroethene | 7.686 | 96 | 58221 | 10.14 | ug/L | 98 |
| 36) cis-1,2-dichloroethene | 8.965 | 96 | 1553786 | 246.11 | ug/L | 95 |
| 40) chloroform | 9.348 | 83 | 2655 | 0.23 | ug/L | 92 |
| 59) trichloroethene | 10.748 | 95 | 23053 | 3.30 | ug/L | 92 |

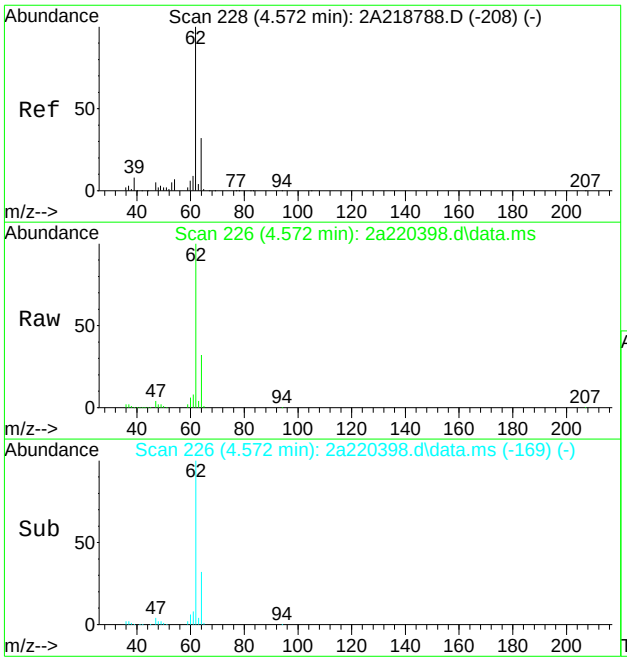
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220398.d
Acq On : 29 Sep 2022 1:11 pm
Operator : nicoleh
Sample : jd52507-3 Inst : GCMS2A
Misc : MS62506,V2A9581,5,,,,10
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 02 22:59:03 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

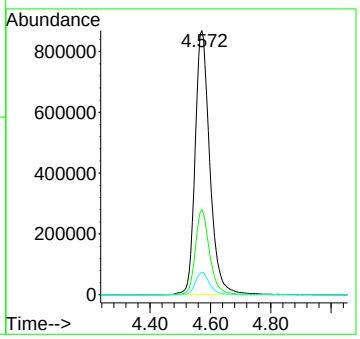


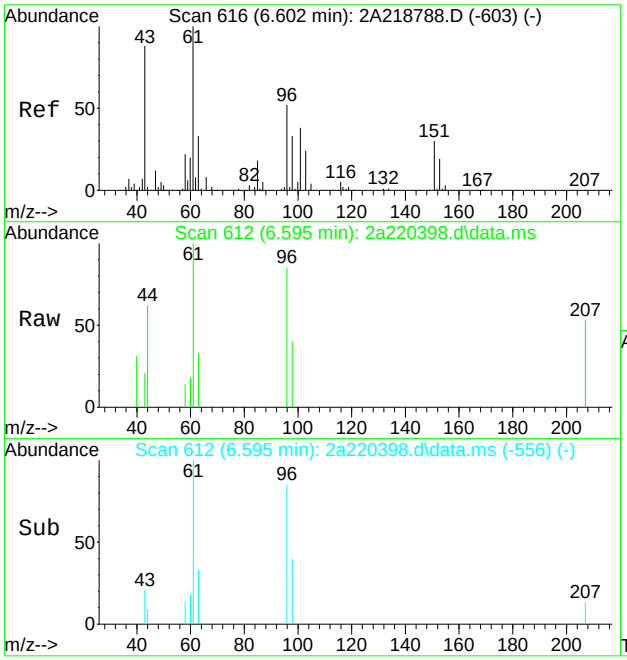



#9
vinyl chloride
Concen: 323.91 ug/L
RT: 4.572 min Scan# 226
Delta R.T. -0.001 min
Lab File: 2a220398.d
Acq: 29 Sep 2022 1:11 pm

Tgt Ion: 62 Resp: 2939422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.1 | 2.1 | 62.1 |
| 61 | 8.5 | 0.0 | 38.8 |

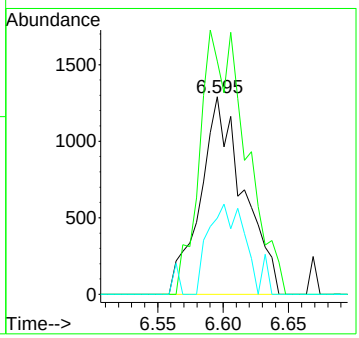


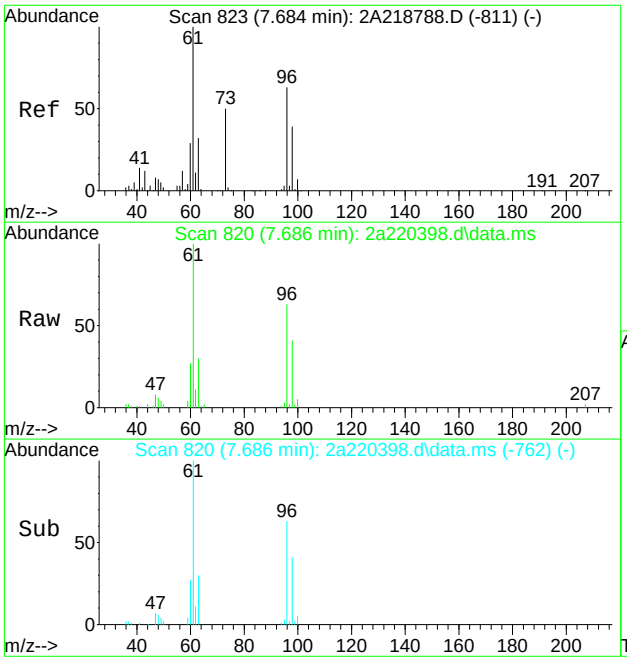




#17
1,1-dichloroethene
Concen: 0.58 ug/L
RT: 6.595 min Scan# 612
Delta R.T. -0.006 min
Lab File: 2a220398.d
Acq: 29 Sep 2022 1:11 pm

Tgt Ion: 96 Resp: 2959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 118.1 | 161.1 | 221.1# |
| 63 | 38.6 | 32.6 | 92.6 |

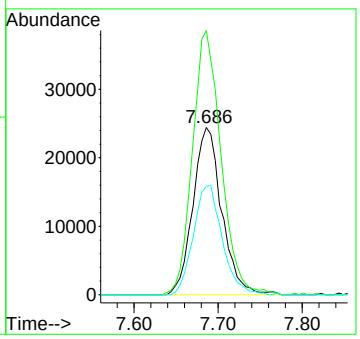


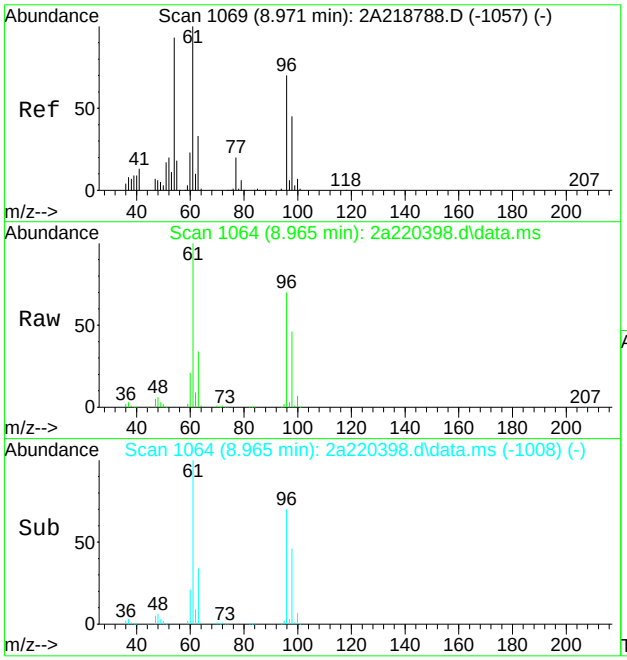



#25
trans-1,2-dichloroethene
Concen: 10.14 ug/L
RT: 7.686 min Scan# 820
Delta R.T. 0.002 min
Lab File: 2a220398.d
Acq: 29 Sep 2022 1:11 pm

Tgt Ion: 96 Resp: 58221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.0 | 130.0 | 190.0 |
| 98 | 64.8 | 31.6 | 91.6 |

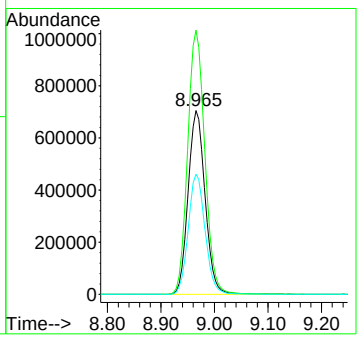


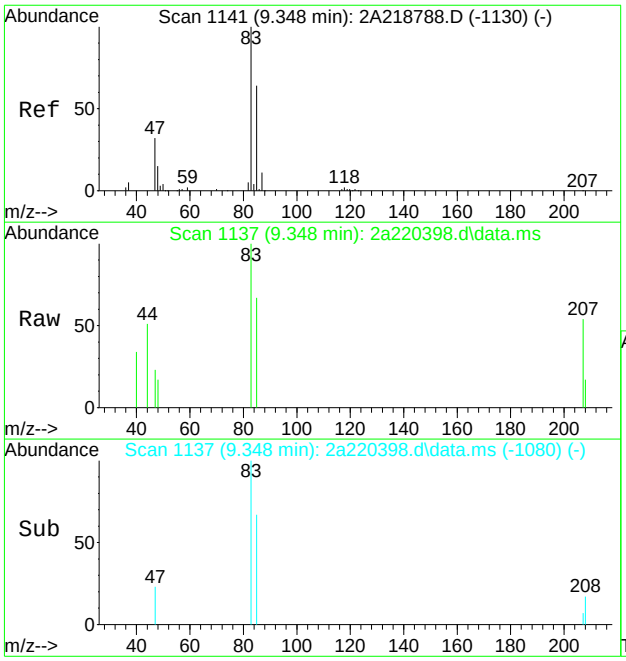




#36
cis-1,2-dichloroethene
Concen: 246.11 ug/L
RT: 8.965 min Scan# 1064
Delta R.T. -0.006 min
Lab File: 2a220398.d
Acq: 29 Sep 2022 1:11 pm

Tgt Ion: 96 Resp: 1553786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 143.9 | 122.7 | 182.7 |
| 98 | 65.5 | 34.0 | 94.0 |

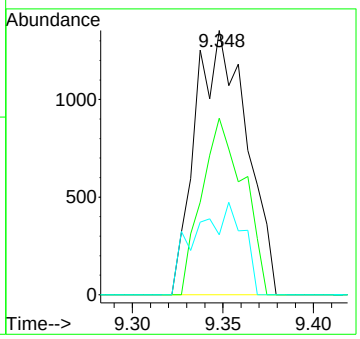


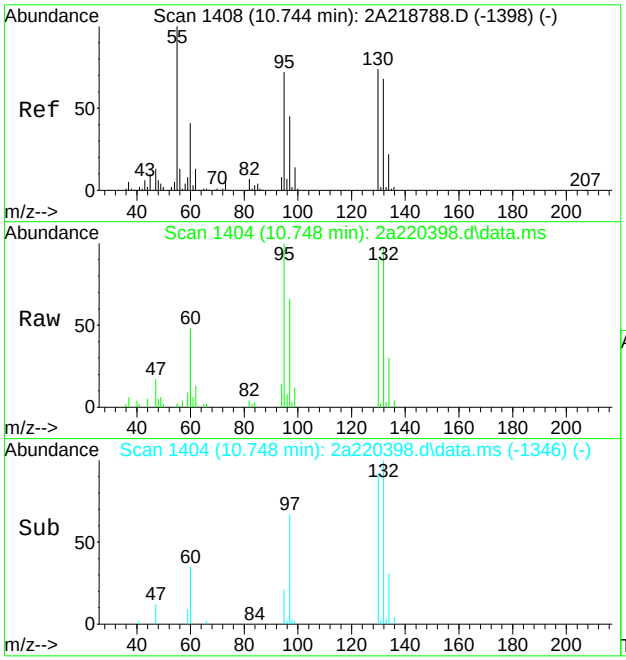



#40
chloroform
Concen: 0.23 ug/L
RT: 9.348 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 2a220398.d
Acq: 29 Sep 2022 1:11 pm

Tgt Ion: 83 Resp: 2655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.8 | 34.2 | 94.2 |
| 47 | 22.7 | 2.7 | 62.7 |

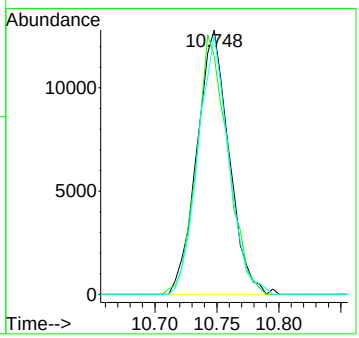



#59
trichloroethene
Concen: 3.30 ug/L
RT: 10.748 min Scan# 1404
Delta R.T. 0.004 min
Lab File: 2a220398.d
Acq: 29 Sep 2022 1:11 pm

Tgt Ion: 95 Resp: 23053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 90.3 | 71.9 | 131.9 |
| 132 | 98.0 | 64.7 | 124.7 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92892.d
Acq On : 28 Sep 2022 1:39 am
Operator : KYLEM
Sample : jd52507-3
Misc : MS62506,V2V3773,5,,,,50
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Sep 28 12:44:25 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

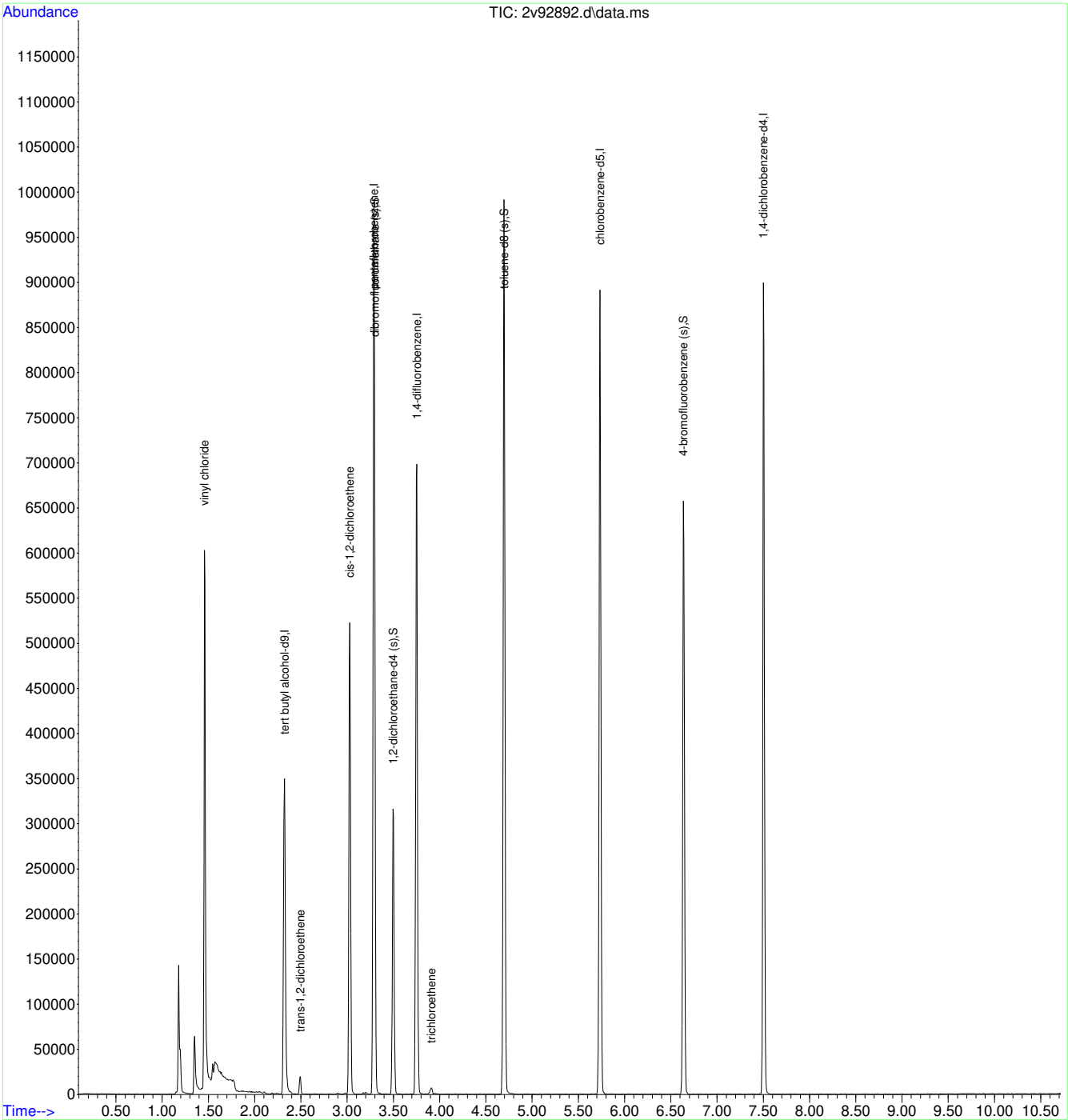
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 263141 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.291 | 168 | 302819 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.753 | 114 | 419684 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 387065 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.501 | 152 | 175763 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.296 | 113 | 150656 | 49.89 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.78% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.496 | 65 | 141390 | 47.51 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 95.02% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 481292 | 50.52 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.04% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 144641 | 46.09 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.18% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.456 | 62 | 352562 | 84.99 | ug/L | 98 |
| 25) trans-1,2-dichloroethene | 2.494 | 96 | 5110 | 1.96 | ug/L | 81 |
| 36) cis-1,2-dichloroethene | 3.029 | 96 | 145735 | 48.41 | ug/L | 93 |
| 59) trichloroethene | 3.910 | 95 | 1876 | 0.63 | ug/L | 87 |

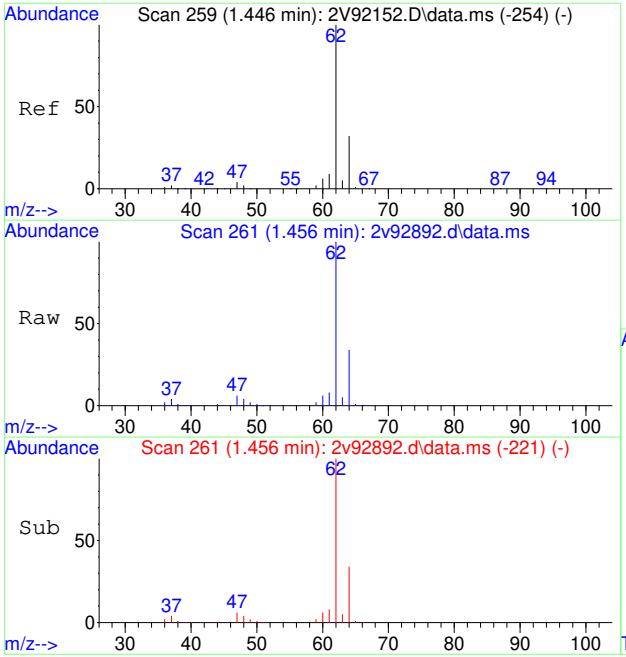
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92892.d
Acq On : 28 Sep 2022 1:39 am
Operator : KYLEM
Sample : jd52507-3
Misc : MS62506,V2V3773,5,,,,50
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Sep 28 12:44:25 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

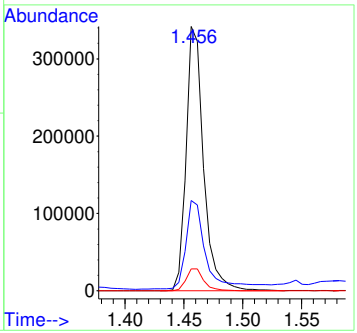


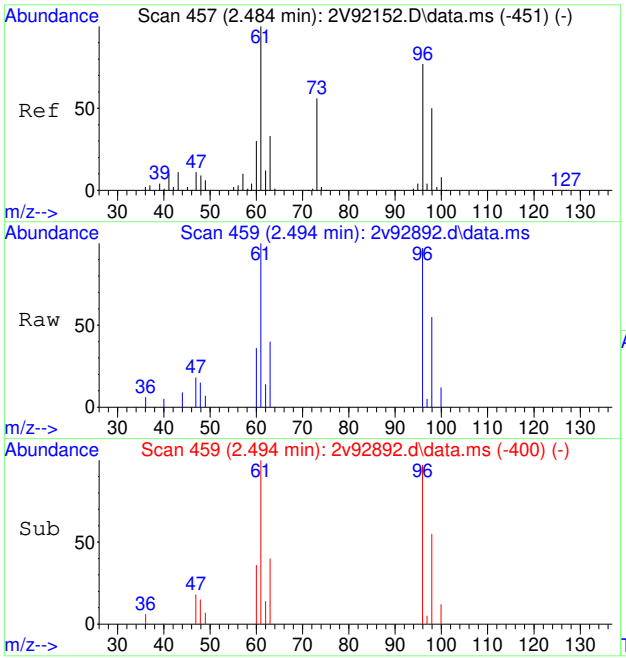



#9
vinyl chloride
Concen: 84.99 ug/L
RT: 1.456 min Scan# 261
Delta R.T. 0.010 min
Lab File: 2v92892.d
Acq: 28 Sep 2022 1:39 am

Tgt Ion: 62 Resp: 352562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.4 | 2.1 | 62.1 |
| 61 | 8.3 | 0.0 | 38.8 |

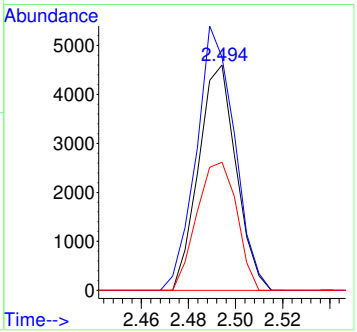


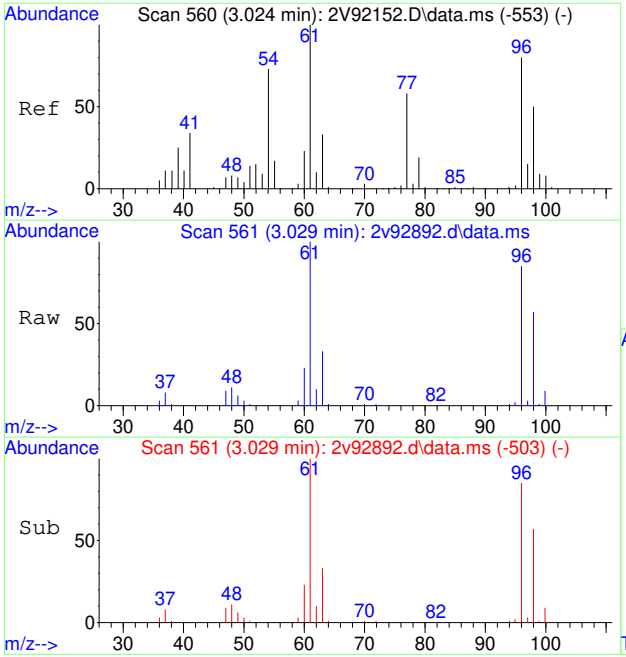




#25
trans-1,2-dichloroethene
Concen: 1.96 ug/L
RT: 2.494 min Scan# 459
Delta R.T. 0.010 min
Lab File: 2v92892.d
Acq: 28 Sep 2022 1:39 am

Tgt Ion: 96 Resp: 5110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 103.5 | 100.1 | 160.1 |
| 98 | 56.9 | 34.6 | 94.6 |

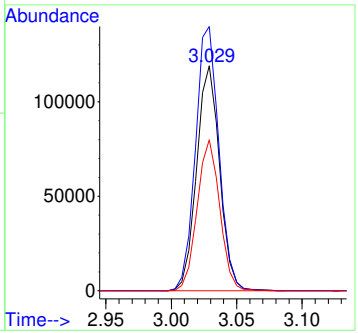


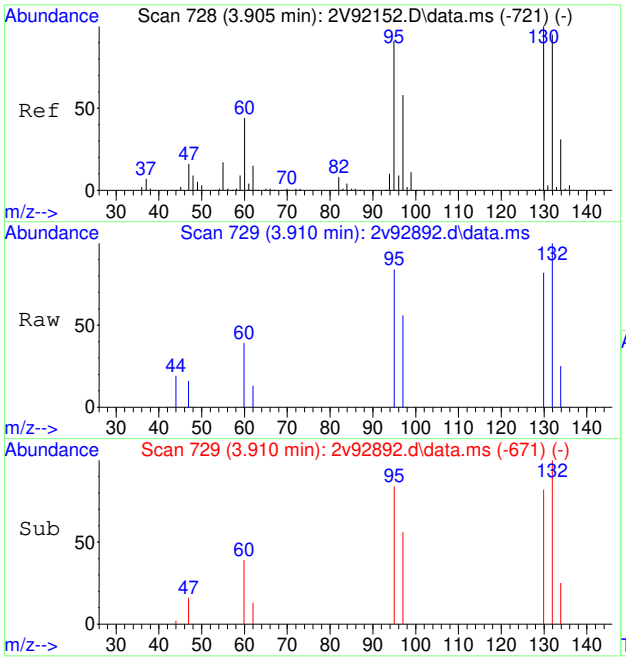



#36
cis-1,2-dichloroethene
Concen: 48.41 ug/L
RT: 3.029 min Scan# 561
Delta R.T. 0.005 min
Lab File: 2v92892.d
Acq: 28 Sep 2022 1:39 am

Tgt Ion: 96 Resp: 145735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 117.6 | 95.8 | 155.8 |
| 98 | 67.1 | 32.6 | 92.6 |

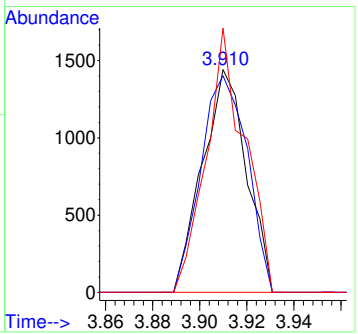



#59
trichloroethene
Concen: 0.63 ug/L
RT: 3.910 min Scan# 729
Delta R.T. 0.005 min
Lab File: 2v92892.d
Acq: 28 Sep 2022 1:39 am

Tgt Ion: 95 Resp: 1876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 97.3 | 80.3 | 140.3 |
| 132 | 118.7 | 75.3 | 135.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92893.d
Acq On : 28 Sep 2022 2:03 am
Operator : KYLEM
Sample : jd52507-4
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Sep 28 12:46:56 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

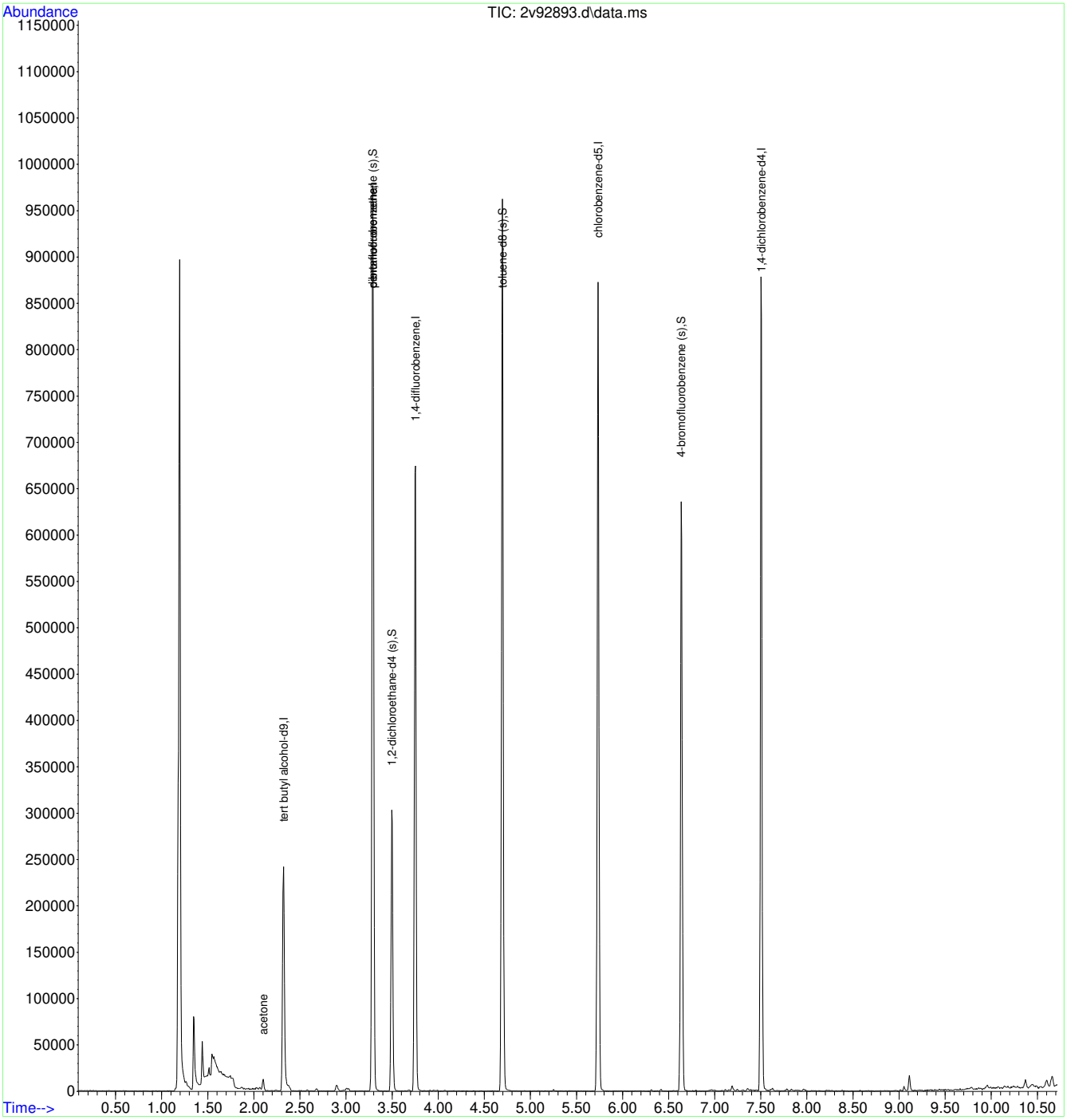
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 184804 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.291 | 168 | 297828 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.753 | 114 | 405152 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 370486 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.507 | 152 | 171437 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 147505 | 49.67 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.34% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.496 | 65 | 134461 | 46.81 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 93.62% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 466962 | 51.21 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.42% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 141114 | 46.10 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.20% | | | |
| Target Compounds | | | | | | Qvalue |
| 18) acetone | 2.101 | 58 | 2482 | 6.46 | ug/L | 91 |

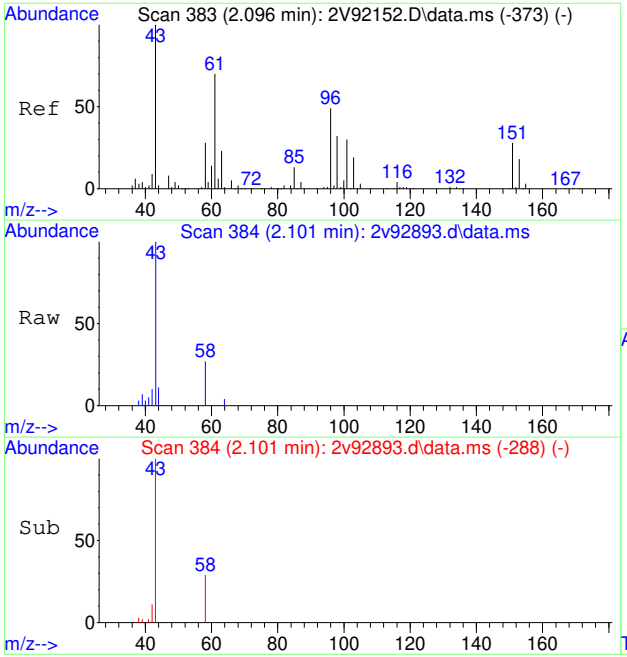
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92893.d
Acq On : 28 Sep 2022 2:03 am
Operator : KYLEM
Sample : jd52507-4
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Sep 28 12:46:56 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

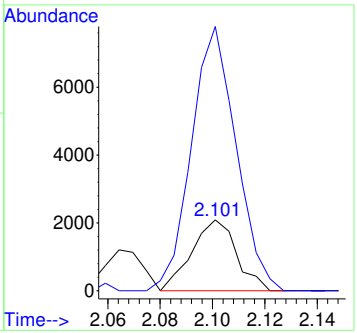





#18
acetone
Concen: 6.46 ug/L
RT: 2.101 min Scan# 384
Delta R.T. 0.005 min
Lab File: 2v92893.d
Acq: 28 Sep 2022 2:03 am

Tgt Ion: 58 Resp: 2482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 372.8 | 322.3 | 382.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92894.d
Acq On : 28 Sep 2022 2:26 am
Operator : KYLEM
Sample : jd52507-5
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Sep 28 12:48:17 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

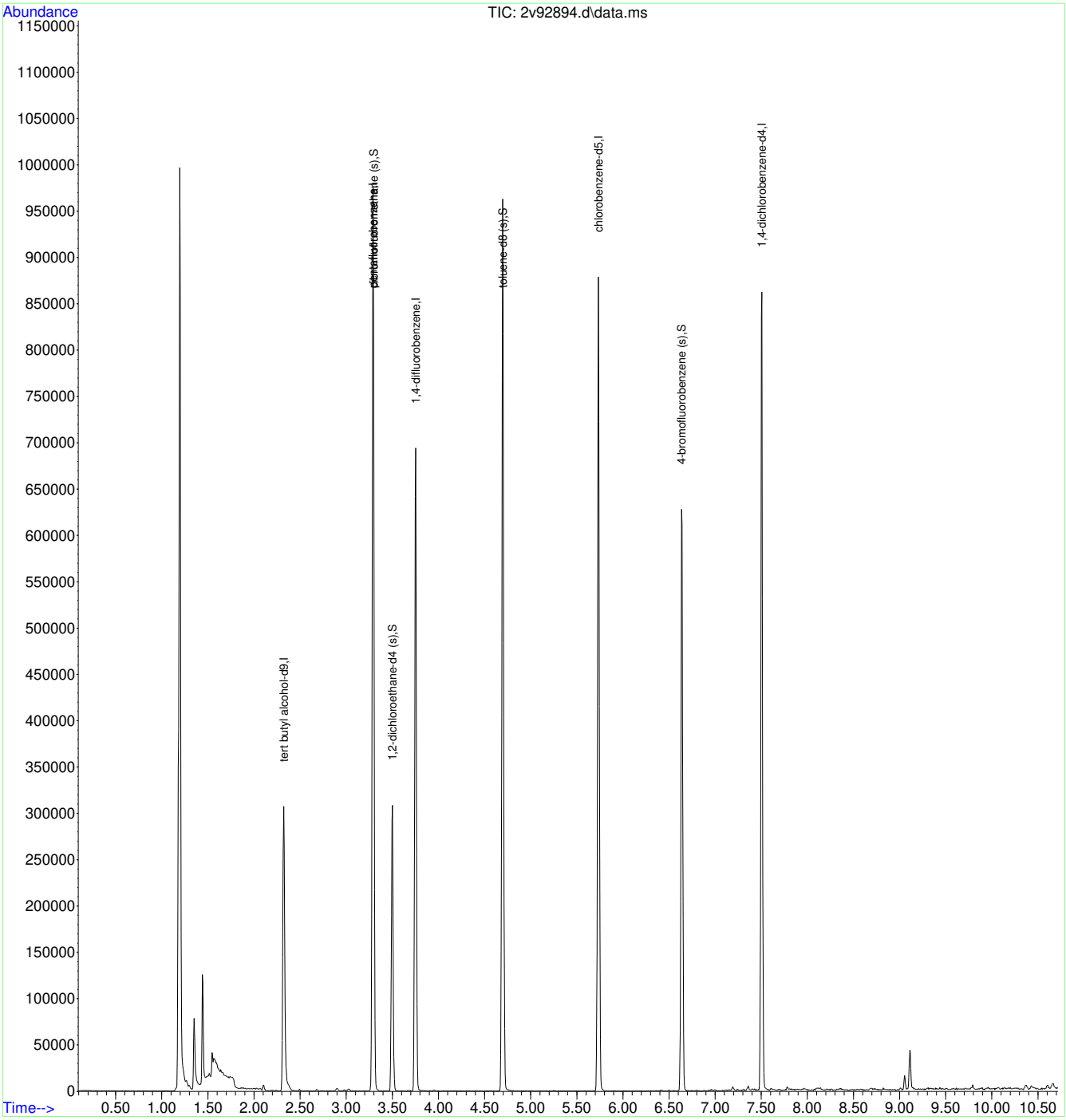
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 235540 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.291 | 168 | 296411 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.753 | 114 | 406433 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 371107 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.507 | 152 | 171921 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.296 | 113 | 146350 | 49.51 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.02% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.501 | 65 | 136308 | 47.30 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 94.60% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 468276 | 51.27 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.54% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 140337 | 45.72 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 91.44% | | | |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92894.d
Acq On : 28 Sep 2022 2:26 am
Operator : KYLEM
Sample : jd52507-5
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Sep 28 12:48:17 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92885.d
Acq On : 27 Sep 2022 10:57 pm
Operator : KYLEM
Sample : jd52507-6
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Oct 03 09:55:19 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

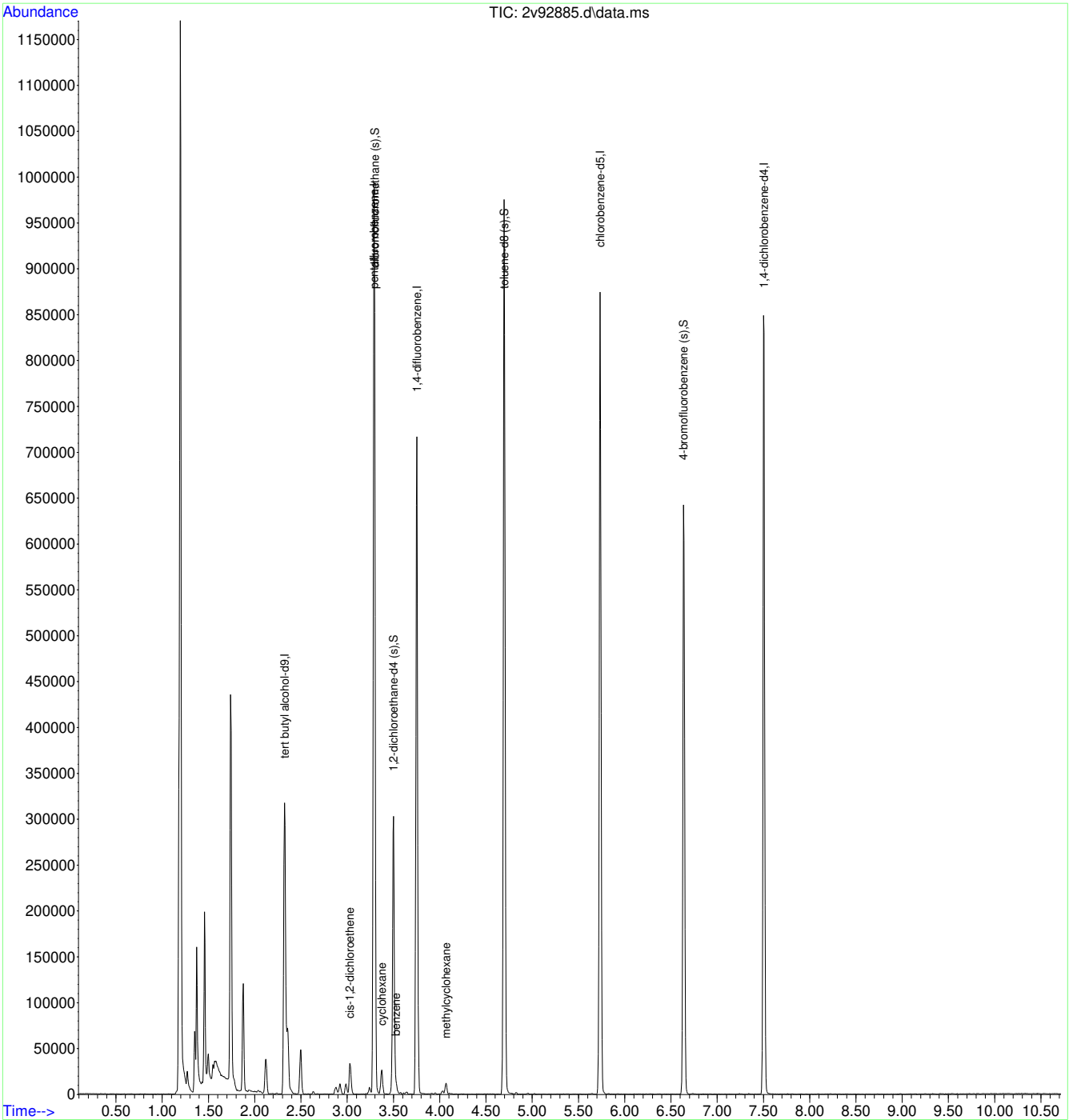
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 244634 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.291 | 168 | 301852 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.753 | 114 | 416821 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.735 | 117 | 377006 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.507 | 152 | 170005 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.297 | 113 | 148127 | 49.21 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.42% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.501 | 65 | 134856 | 45.63 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 91.26% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 476974 | 51.40 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.80% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 143066 | 47.13 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.26% | | | |
| Target Compounds | | | | | | Qvalue |
| 36) cis-1,2-dichloroethene | 3.029 | 96 | 8501 | 2.83 | ug/L | 85 |
| 45) cyclohexane | 3.375 | 84 | 4303 | 1.21 | ug/L # | 81 |
| 53) benzene | 3.527 | 78 | 6727 | 0.67 | ug/L | 93 |
| 65) methylcyclohexane | 4.067 | 83 | 3531 | 0.96 | ug/L | 97 |

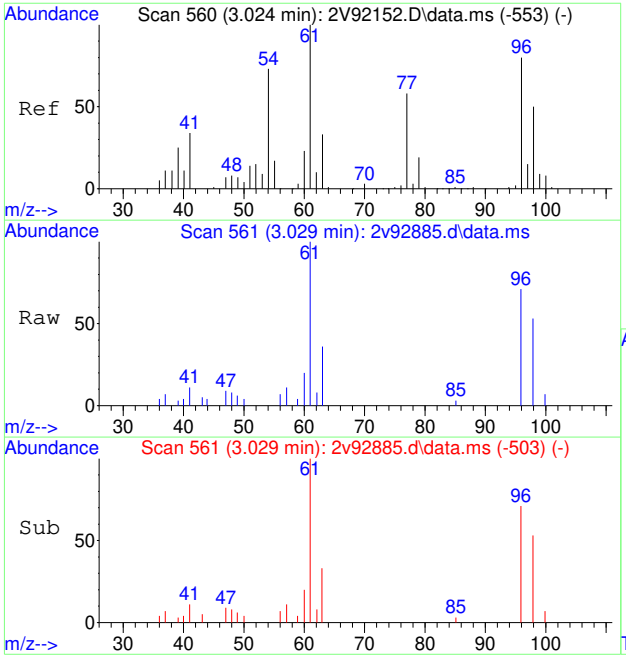
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92885.d
Acq On : 27 Sep 2022 10:57 pm
Operator : KYLEM
Sample : jd52507-6
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Oct 03 09:55:19 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

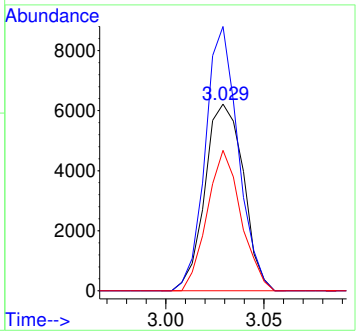


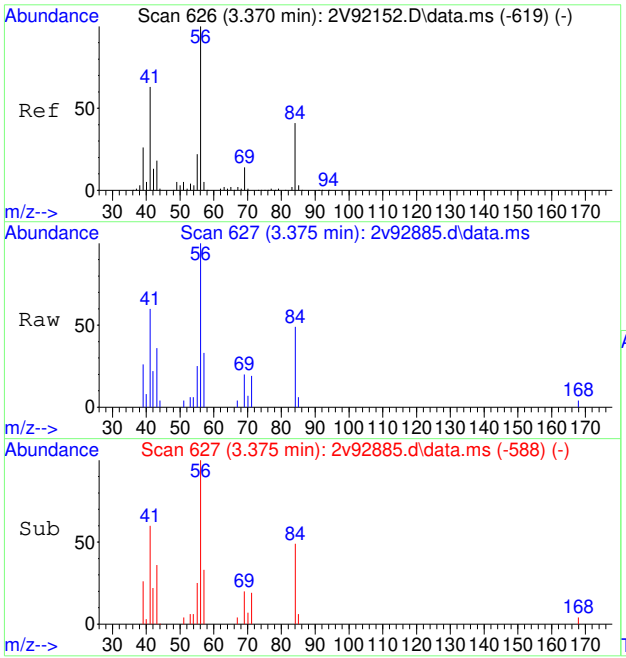



#36
cis-1,2-dichloroethene
Concen: 2.83 ug/L
RT: 3.029 min Scan# 561
Delta R.T. 0.005 min
Lab File: 2v92885.d
Acq: 27 Sep 2022 10:57 pm

Tgt Ion: 96 Resp: 8501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.6 | 95.8 | 155.8 |
| 98 | 75.2 | 32.6 | 92.6 |

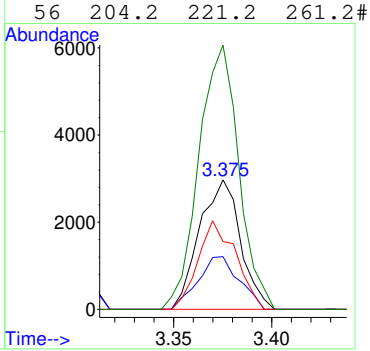


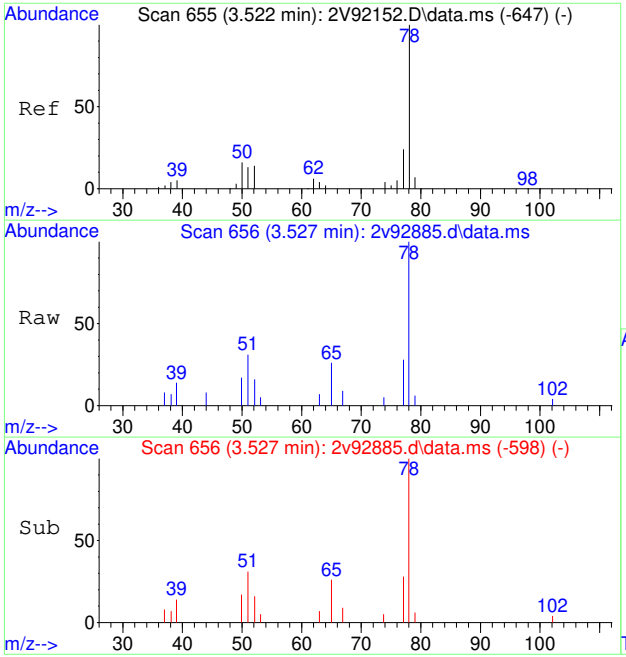




#45
cyclohexane
Concen: 1.21 ug/L
RT: 3.375 min Scan# 627
Delta R.T. 0.005 min
Lab File: 2v92885.d
Acq: 27 Sep 2022 10:57 pm

Tgt Ion: 84 Resp: 4303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 69 | 40.8 | 14.8 | 54.8 |
| 39 | 52.4 | 42.9 | 82.9 |
| 56 | 204.2 | 221.2 | 261.2# |

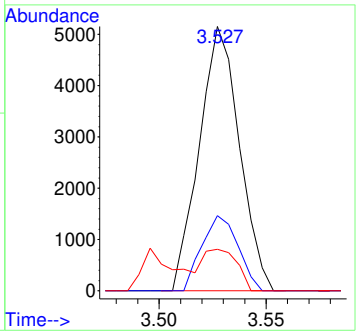


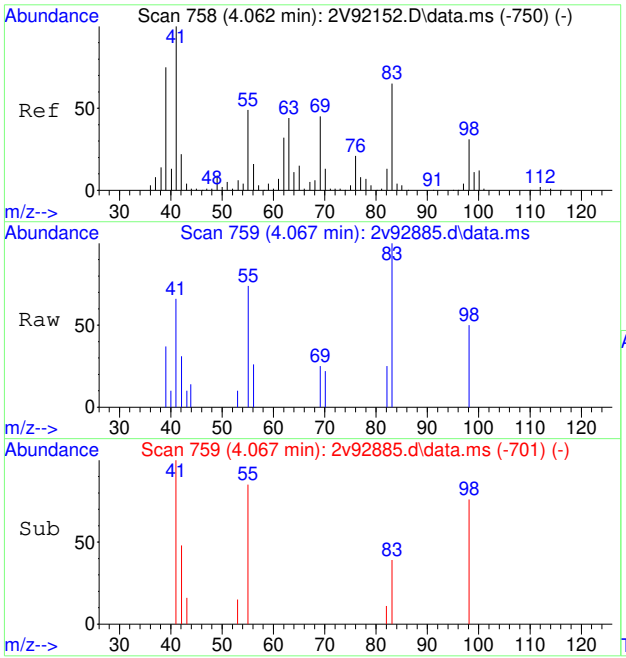



#53
benzene
Concen: 0.67 ug/L
RT: 3.527 min Scan# 656
Delta R.T. 0.005 min
Lab File: 2v92885.d
Acq: 27 Sep 2022 10:57 pm

Tgt Ion: 78 Resp: 6727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 28.5 | 0.0 | 53.9 |
| 52 | 15.7 | 0.0 | 44.0 |

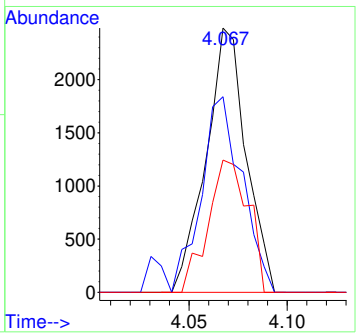



#65
methylcyclohexane
Concen: 0.96 ug/L
RT: 4.067 min Scan# 759
Delta R.T. 0.005 min
Lab File: 2v92885.d
Acq: 27 Sep 2022 10:57 pm

Tgt Ion: 83 Resp: 3531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 73.9 | 45.6 | 105.6 |
| 98 | 50.0 | 17.4 | 77.4 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92895.d
Acq On : 28 Sep 2022 2:49 am
Operator : KYLEM
Sample : jd52507-7
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Sep 28 12:53:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

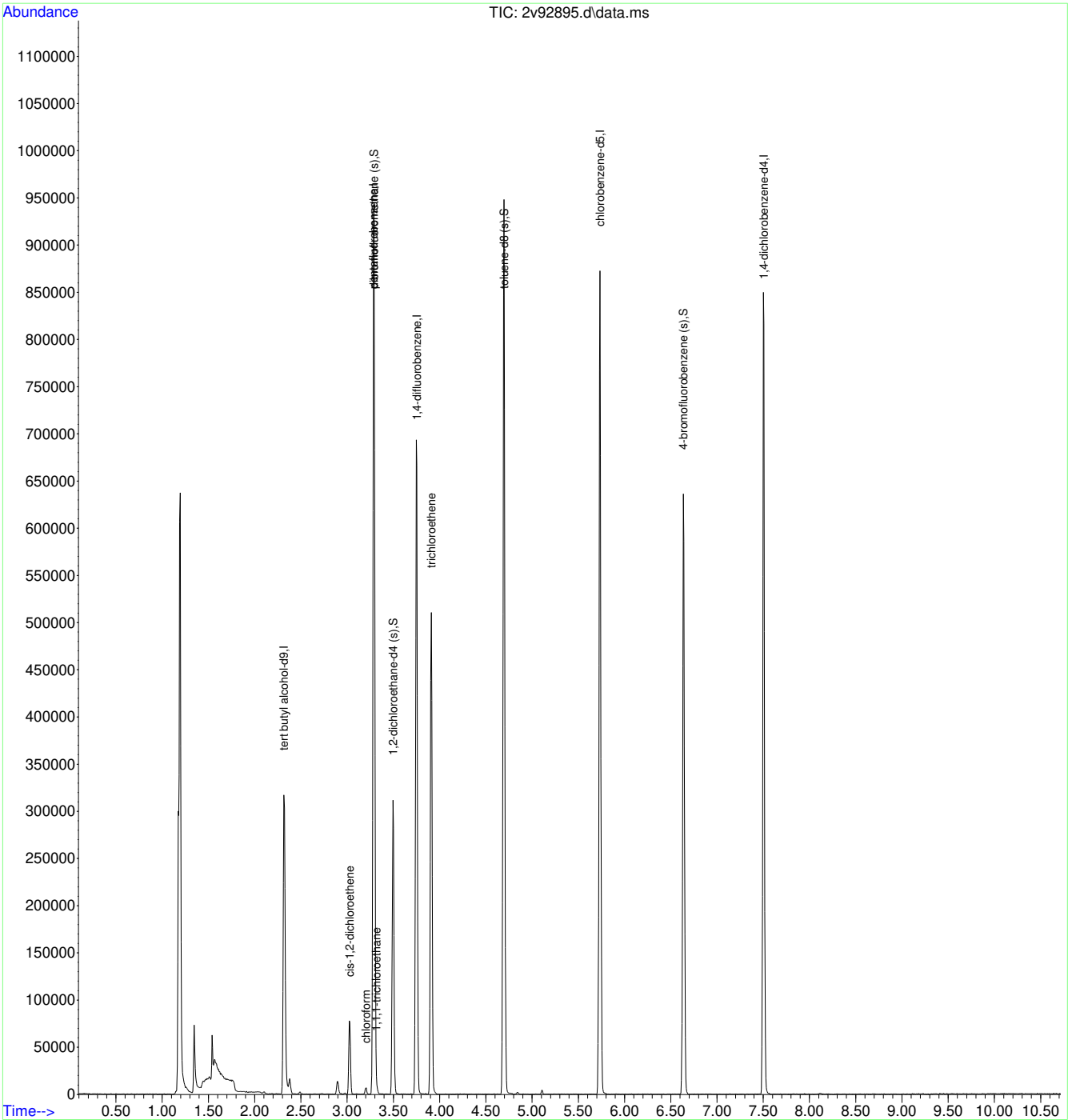
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 245320 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 294732 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 411000 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 373966 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.507 | 152 | 167973 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 145687 | 49.57 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.14% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.496 | 65 | 136663 | 46.90 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 93.80% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 466392 | 50.67 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.34% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 139498 | 46.51 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.02% | | | |
| Target Compounds | | | | | | Qvalue |
| 36) cis-1,2-dichloroethene | 3.029 | 96 | 22935 | 7.83 | ug/L | 91 |
| 41) chloroform | 3.202 | 83 | 3301 | 0.63 | ug/L | 94 |
| 44) 1,1,1-trichloroethane | 3.317 | 97 | 2589 | 0.58 | ug/L # | 65 |
| 59) trichloroethene | 3.910 | 95 | 102584 | 35.14 | ug/L | 96 |

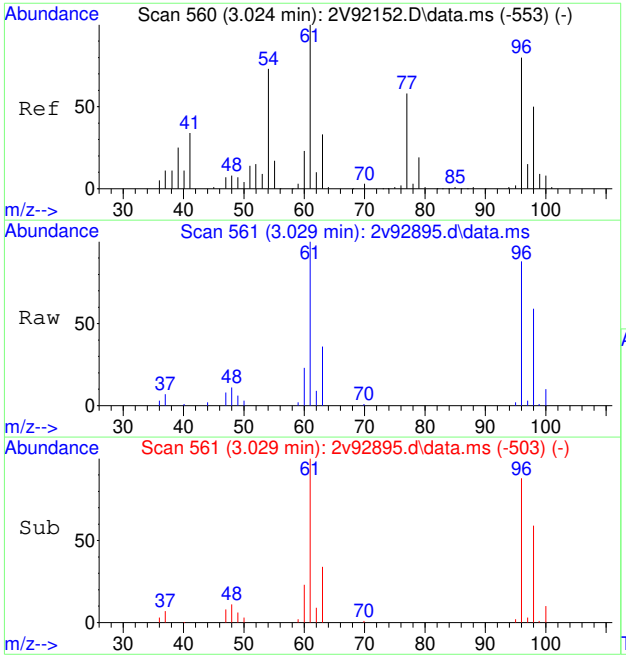
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92895.d
Acq On : 28 Sep 2022 2:49 am
Operator : KYLEM
Sample : jd52507-7
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Sep 28 12:53:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

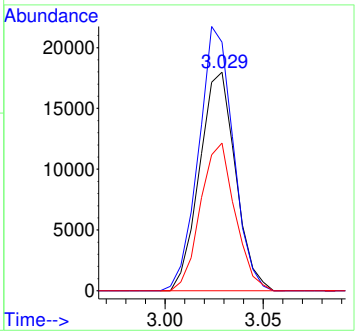


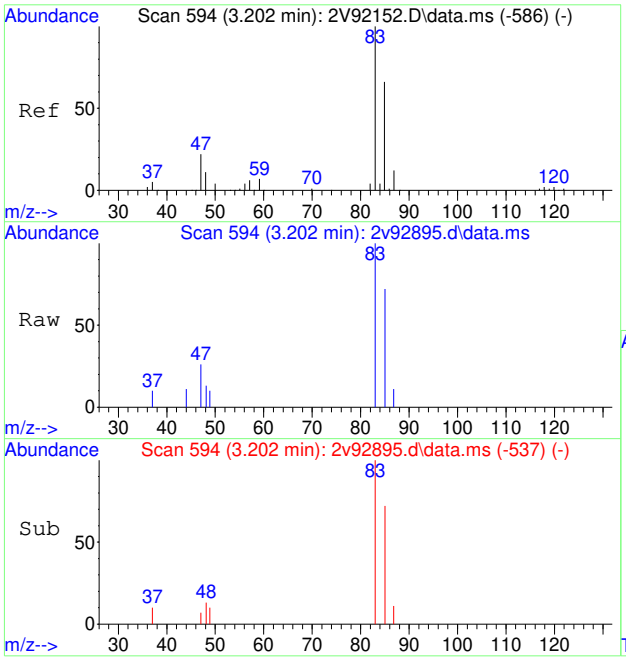



#36
cis-1,2-dichloroethene
Concen: 7.83 ug/L
RT: 3.029 min Scan# 561
Delta R.T. 0.005 min
Lab File: 2v92895.d
Acq: 28 Sep 2022 2:49 am

Tgt Ion: 96 Resp: 22935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 113.7 | 95.8 | 155.8 |
| 98 | 67.6 | 32.6 | 92.6 |

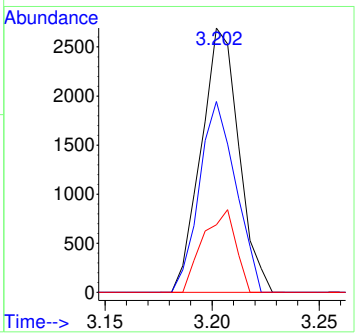


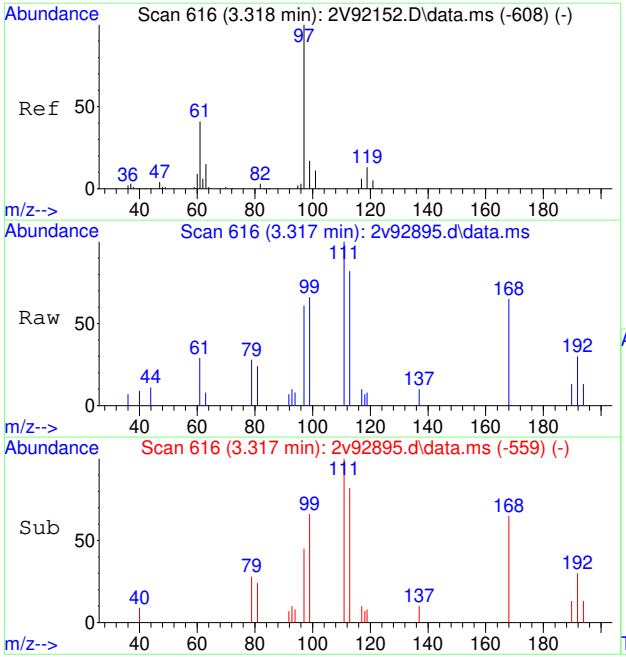




#41
chloroform
Concen: 0.63 ug/L
RT: 3.202 min Scan# 594
Delta R.T. -0.000 min
Lab File: 2v92895.d
Acq: 28 Sep 2022 2:49 am

Tgt Ion: 83 Resp: 3301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 72.2 | 35.9 | 95.9 |
| 47 | 25.6 | 0.0 | 56.5 |

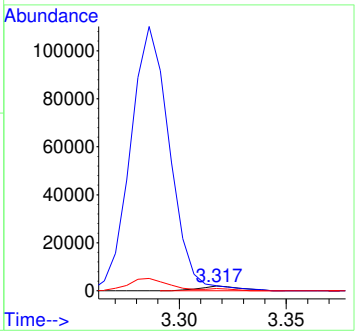


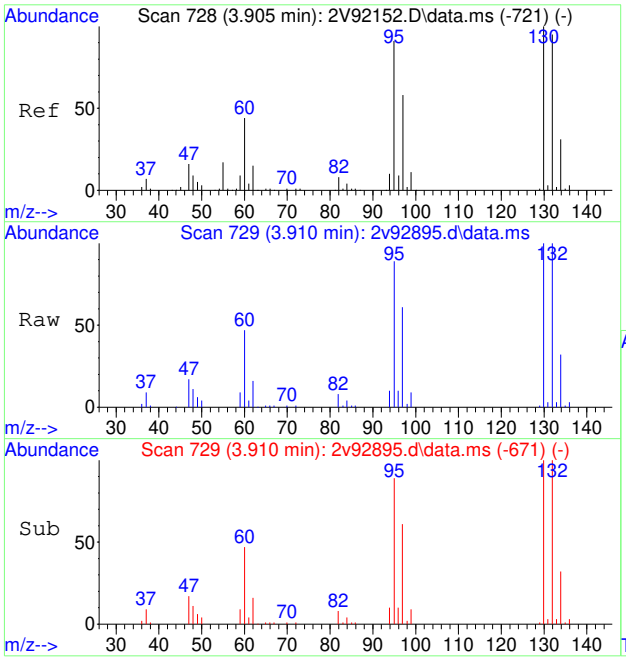



#44
1,1,1-trichloroethane
Concen: 0.58 ug/L
RT: 3.317 min Scan# 616
Delta R.T. -0.001 min
Lab File: 2v92895.d
Acq: 28 Sep 2022 2:49 am

Tgt Ion: 97 Resp: 2589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 107.8 | 35.4 | 95.4# |
| 61 | 47.4 | 12.9 | 72.9 |

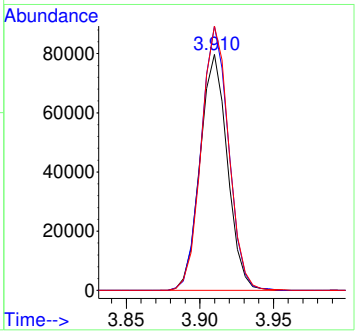



#59
trichloroethene
Concen: 35.14 ug/L
RT: 3.910 min Scan# 729
Delta R.T. 0.005 min
Lab File: 2v92895.d
Acq: 28 Sep 2022 2:49 am

Tgt Ion: 95 Resp: 102584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 112.1 | 80.3 | 140.3 |
| 132 | 112.0 | 75.3 | 135.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226614.d
Acq On : 30 Sep 2022 2:33 pm
Operator : nickw
Sample : jd52507-8 Inst : MSDTEST1A
Misc : MS62506, V1A9705,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 08:18:39 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

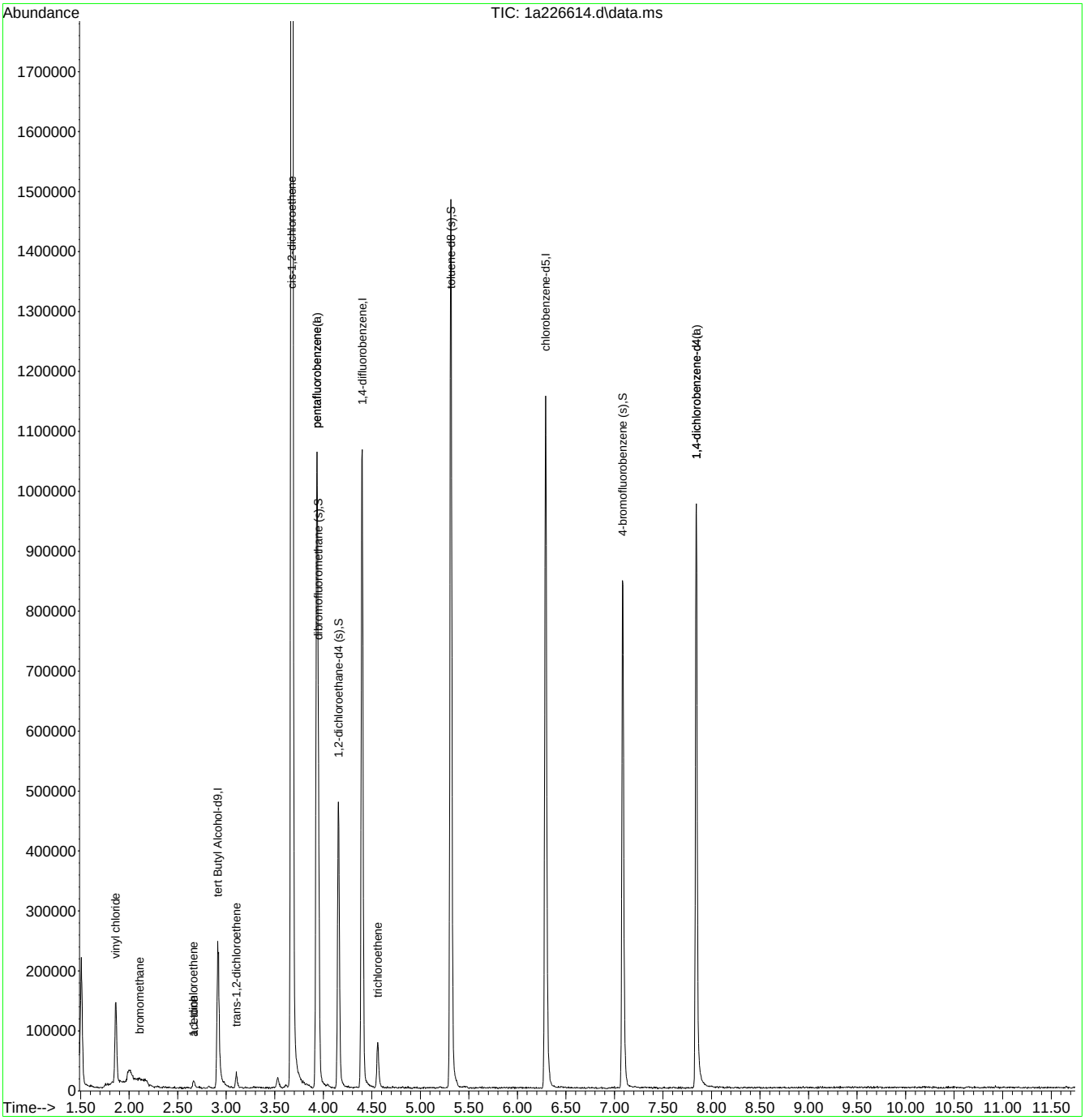
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.912 | 65 | 213080 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.932 | 168 | 441314 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 660227 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 551414 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 206661 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 3.932 | 168 | 441314 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 7.844 | 152 | 206661 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 193022 | 49.63 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.26% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 227969 | 49.86 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.72% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 765696 | 51.62 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.24% | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 214976 | 50.14 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.28% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.859 | 62 | 103353 | 19.14 | ug/L | 96 |
| 11) bromomethane | 2.106 | 96 | 2237 | 0.69 | ug/L | 77 |
| 17) 1,1-dichloroethene | 2.661 | 96 | 1864 | 0.61 | ug/L # | 59 |
| 18) acetone | 2.665 | 58 | 1768 | 4.56 | ug/L # | 69 |
| 26) trans-1,2-dichloroethene | 3.104 | 96 | 5514 | 1.68 | ug/L # | 78 |
| 37) cis-1,2-dichloroethene | 3.675 | 96 | 1660281 | 450.69 | ug/L | 93 |
| 59) trichloroethene | 4.561 | 95 | 17139 | 4.72 | ug/L | 87 |

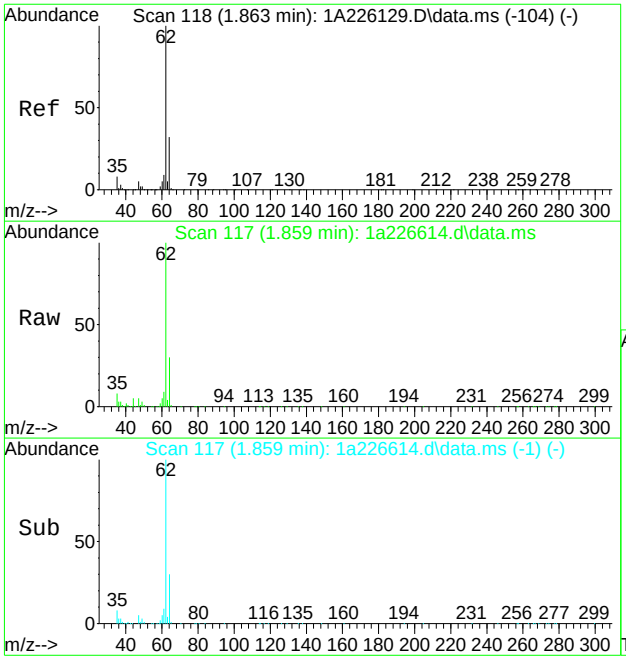
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226614.d
Acq On : 30 Sep 2022 2:33 pm
Operator : nickw
Sample : jd52507-8 Inst : MSDTEST1A
Misc : MS62506, V1A9705,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 08:18:39 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

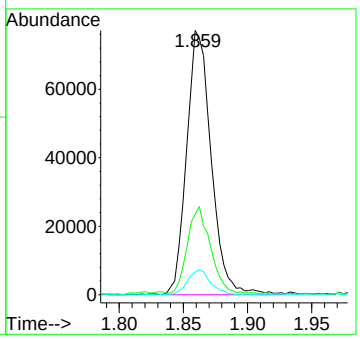


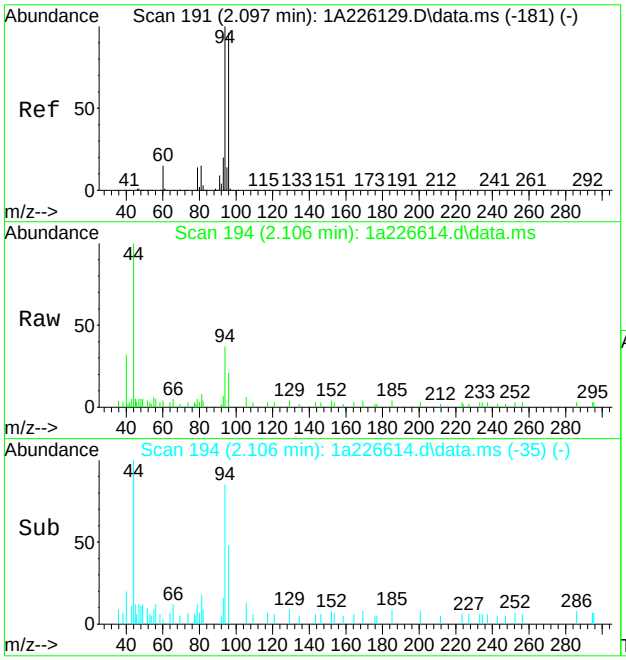



#9
vinyl chloride
Concen: 19.14 ug/L
RT: 1.859 min Scan# 117
Delta R.T. -0.004 min
Lab File: 1a226614.d
Acq: 30 Sep 2022 2:33 pm

Tgt Ion: 62 Resp: 103353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.0 | 2.4 | 62.4 |
| 61 | 8.6 | 0.0 | 39.0 |

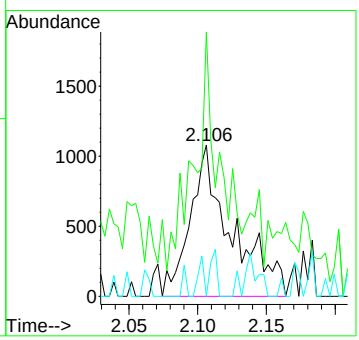


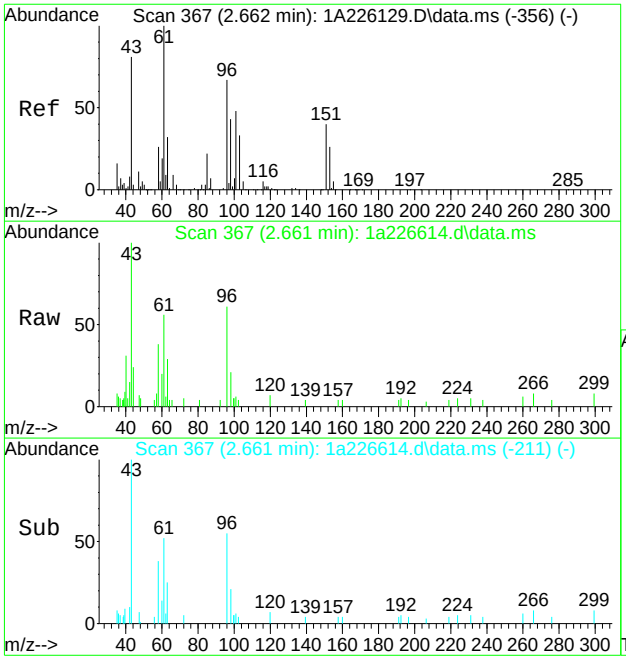




#11
bromomethane
Concen: 0.69 ug/L
RT: 2.106 min Scan# 194
Delta R.T. 0.009 min
Lab File: 1a226614.d
Acq: 30 Sep 2022 2:33 pm

Tgt Ion: 96 Resp: 2237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 94 | 125.8 | 74.0 | 134.0 |
| 95 | 0.0 | 0.0 | 44.8 |

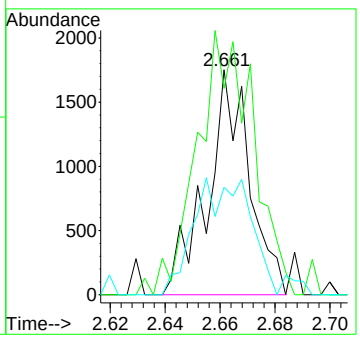


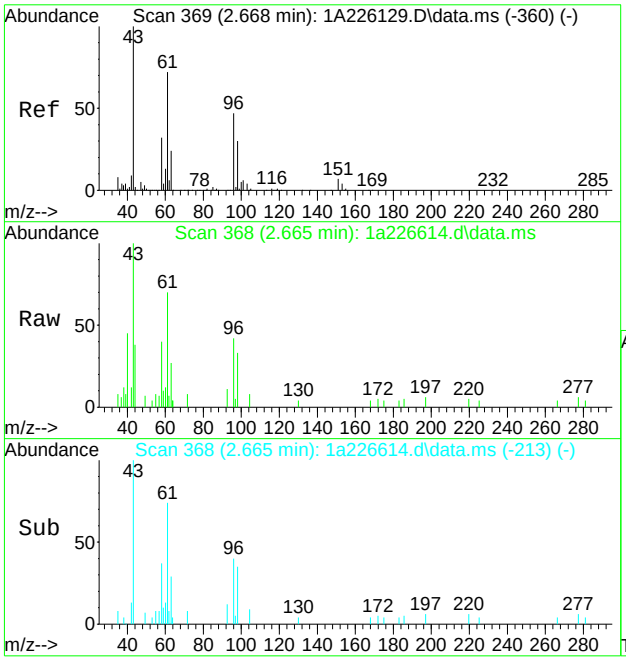



#17
1,1-dichloroethene
Concen: 0.61 ug/L
RT: 2.661 min Scan# 367
Delta R.T. -0.001 min
Lab File: 1a226614.d
Acq: 30 Sep 2022 2:33 pm

Tgt Ion: 96 Resp: 1864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 81.4 | 119.4 | 179.4# |
| 63 | 47.6 | 17.6 | 77.6 |

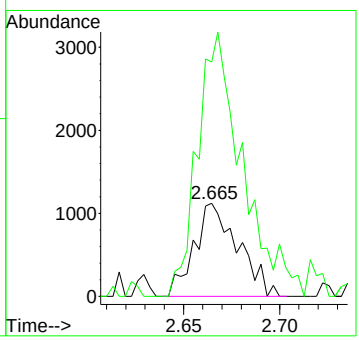


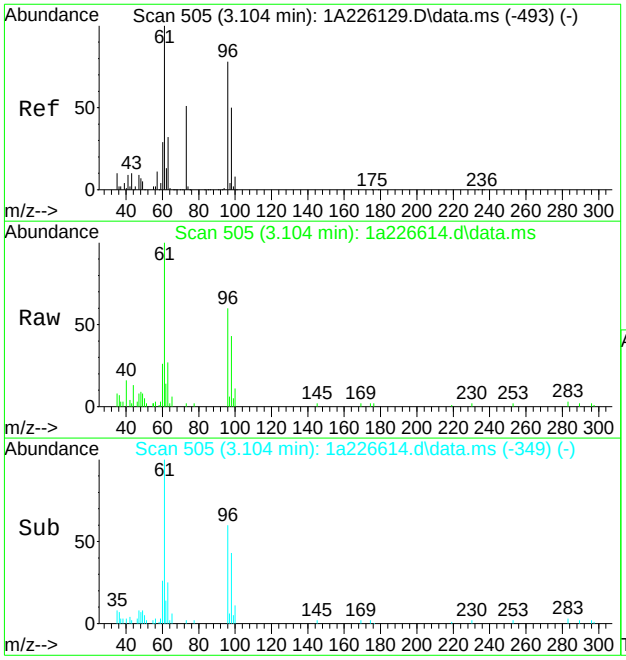




#18
acetone
Concen: 4.56 ug/L
RT: 2.665 min Scan# 368
Delta R.T. -0.003 min
Lab File: 1a226614.d
Acq: 30 Sep 2022 2:33 pm

Tgt Ion: 58 Resp: 1768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 252.1 | 285.7 | 345.7# |

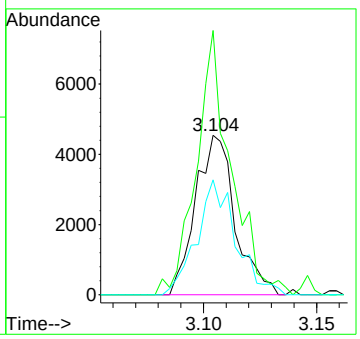


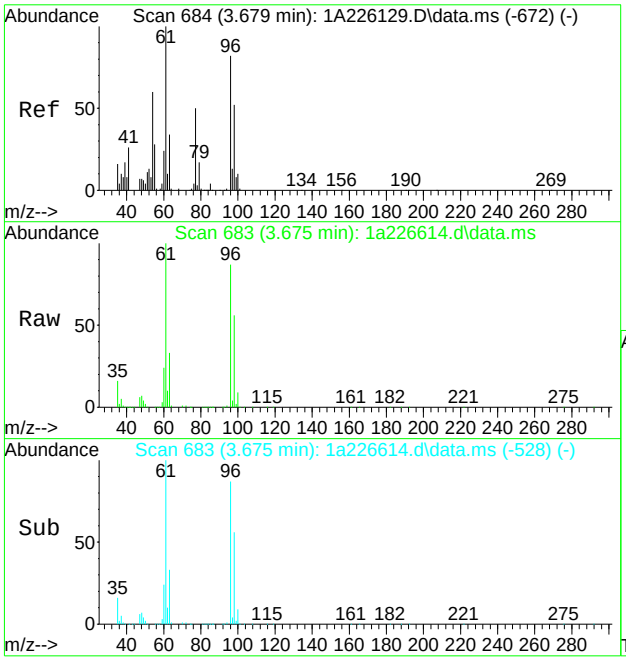



#26
trans-1,2-dichloroethene
Concen: 1.68 ug/L
RT: 3.104 min Scan# 505
Delta R.T. 0.000 min
Lab File: 1a226614.d
Acq: 30 Sep 2022 2:33 pm

Tgt Ion: 96 Resp: 5514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 160.9 | 98.1 | 158.1# |
| 98 | 72.1 | 33.9 | 93.9 |

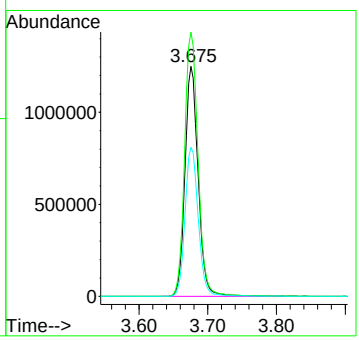


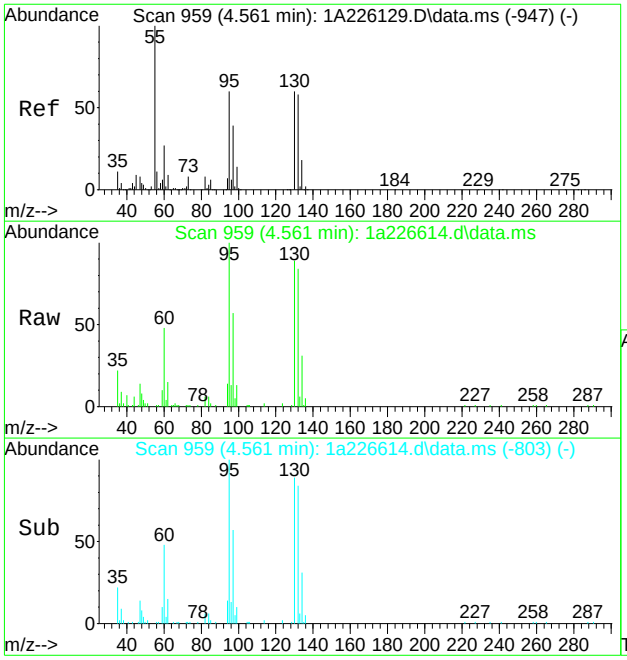




#37
cis-1,2-dichloroethene
Concen: 450.69 ug/L
RT: 3.675 min Scan# 683
Delta R.T. -0.004 min
Lab File: 1a226614.d
Acq: 30 Sep 2022 2:33 pm

Tgt Ion: 96 Resp: 1660281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 114.9 | 95.4 | 155.4 |
| 98 | 64.8 | 32.9 | 92.9 |

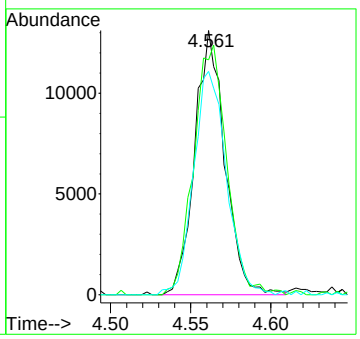





#59
trichloroethene
Concen: 4.72 ug/L
RT: 4.561 min Scan# 959
Delta R.T. 0.000 min
Lab File: 1a226614.d
Acq: 30 Sep 2022 2:33 pm

Tgt Ion: 95 Resp: 17139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 88.8 | 70.0 | 130.0 |
| 132 | 82.8 | 67.1 | 127.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226617.d
Acq On : 30 Sep 2022 3:45 pm
Operator : nickw
Sample : jd52507-8 Inst : MSDTEST1A
Misc : MS62506, V1A9705,5,,,,10
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 08:25:43 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

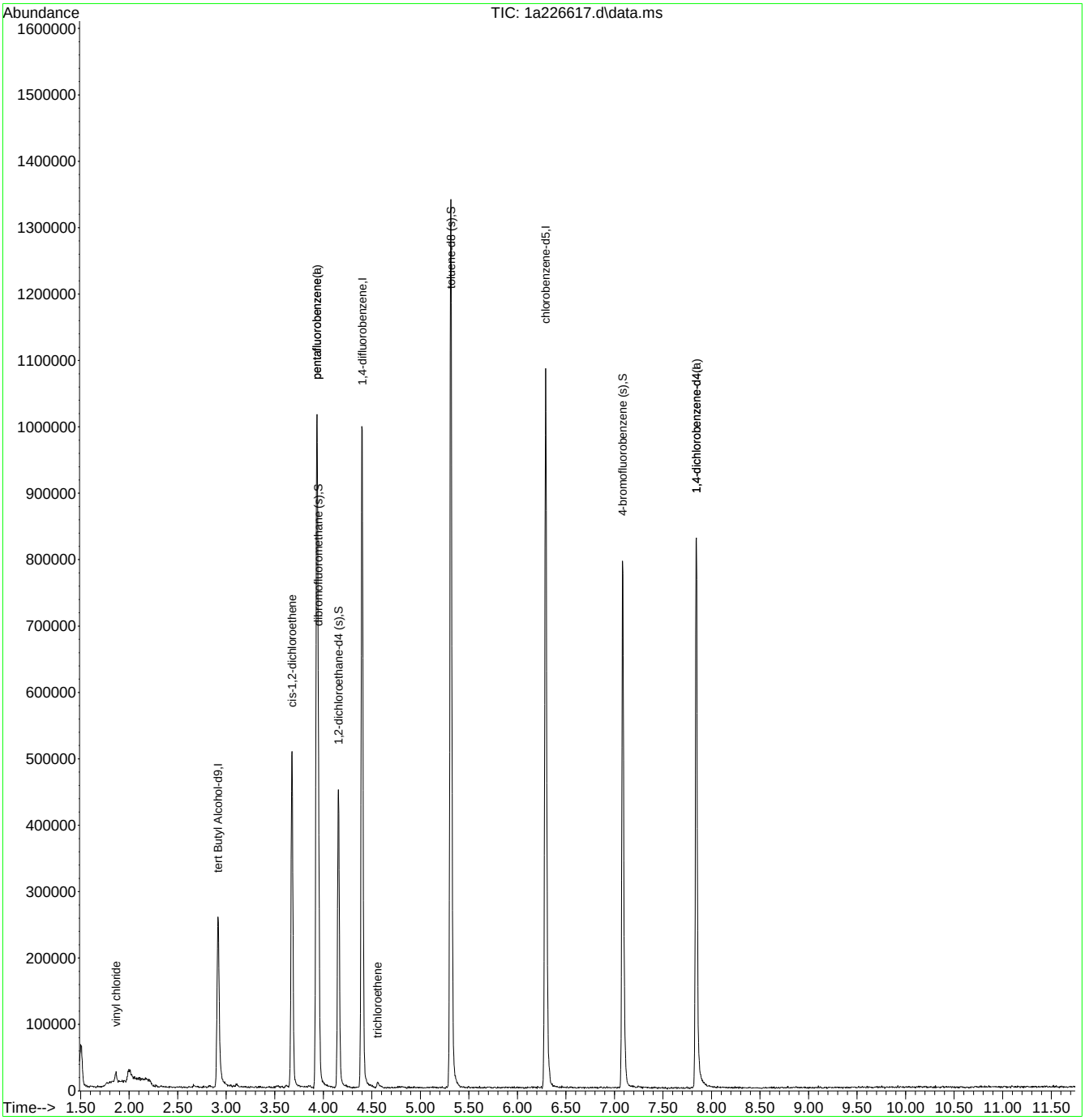
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.915 | 65 | 224579 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.932 | 168 | 425197 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 615758 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 523619 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 180153 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 3.932 | 168 | 425197 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 7.844 | 152 | 180153 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 185758 | 49.58 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.16% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 213327 | 50.03 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.06% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 718050 | 50.98 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.96% | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 200355 | 53.60 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 107.20% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.866 | 62 | 10074 | 1.94 | ug/L | 92 |
| 37) cis-1,2-dichloroethene | 3.679 | 96 | 159927 | 45.06 | ug/L | 96 |
| 59) trichloroethene | 4.558 | 95 | 1854 | 0.55 | ug/L | 96 |

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

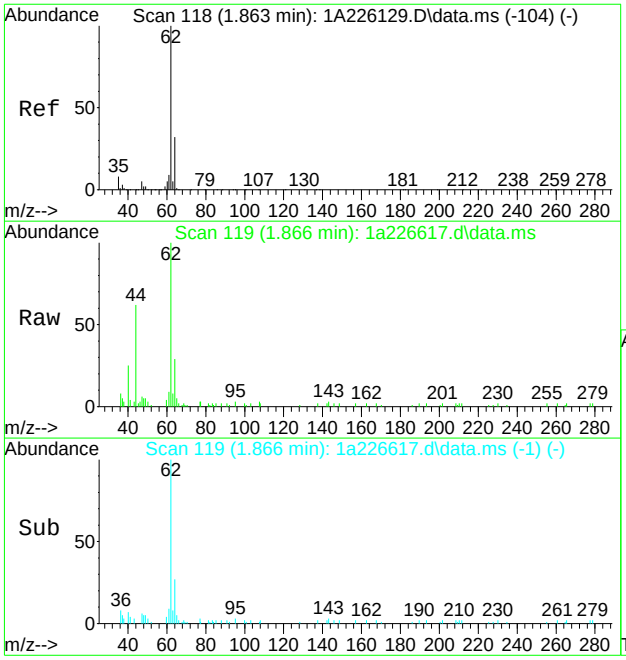
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226617.d
Acq On : 30 Sep 2022 3:45 pm
Operator : nickw
Sample : jd52507-8 Inst : MSDTEST1A
Misc : MS62506, V1A9705,5,,,,10
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 08:25:43 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration



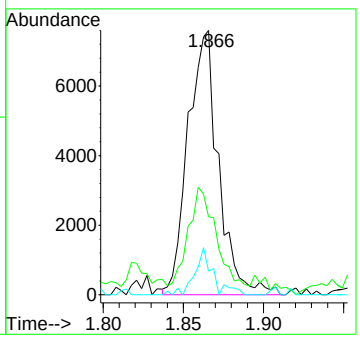

M1A9688.M Mon Oct 03 18:38:53 2022 Page: 2

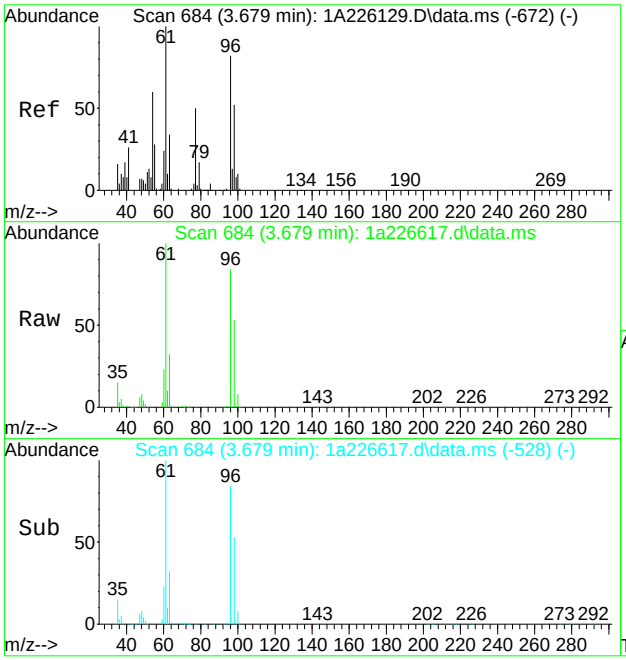



#9
vinyl chloride
Concen: 1.94 ug/L
RT: 1.866 min Scan# 119
Delta R.T. 0.003 min
Lab File: 1a226617.d
Acq: 30 Sep 2022 3:45 pm

Tgt Ion: 62 Resp: 10074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 26.5 | 2.4 | 62.4 |
| 61 | 9.0 | 0.0 | 39.0 |

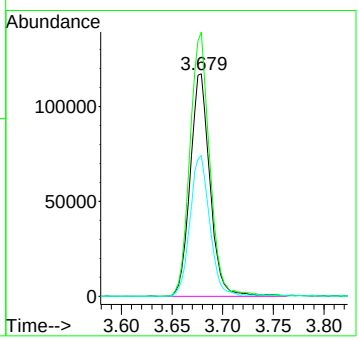


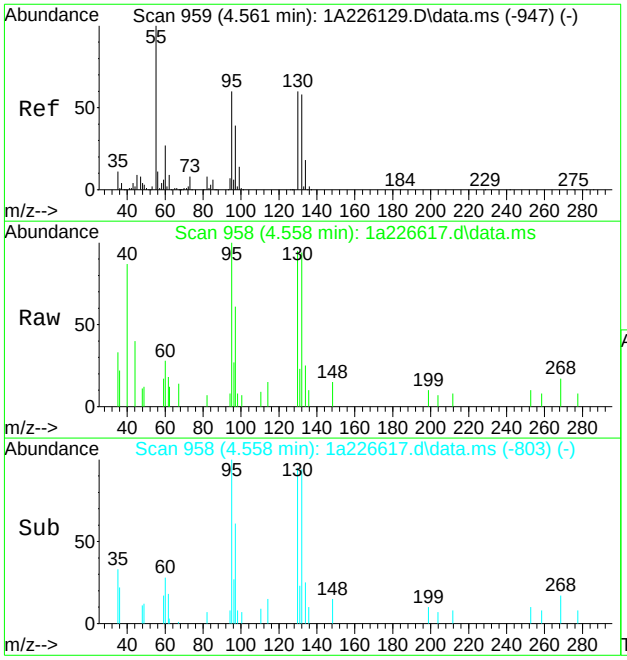




#37
cis-1,2-dichloroethene
Concen: 45.06 ug/L
RT: 3.679 min Scan# 684
Delta R.T. -0.000 min
Lab File: 1a226617.d
Acq: 30 Sep 2022 3:45 pm

Tgt Ion: 96 Resp: 159927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 118.8 | 95.4 | 155.4 |
| 98 | 63.4 | 32.9 | 92.9 |

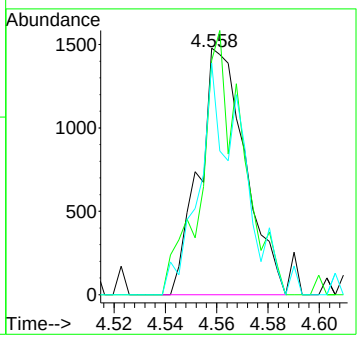





#59
trichloroethene
Concen: 0.55 ug/L
RT: 4.558 min Scan# 958
Delta R.T. -0.003 min
Lab File: 1a226617.d
Acq: 30 Sep 2022 3:45 pm

Tgt Ion: 95 Resp: 1854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 95.1 | 70.0 | 130.0 |
| 132 | 94.0 | 67.1 | 127.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93013.d
Acq On : 30 Sep 2022 2:41 am
Operator : KYLEM
Sample : jd52507-9 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 45 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:50:36 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

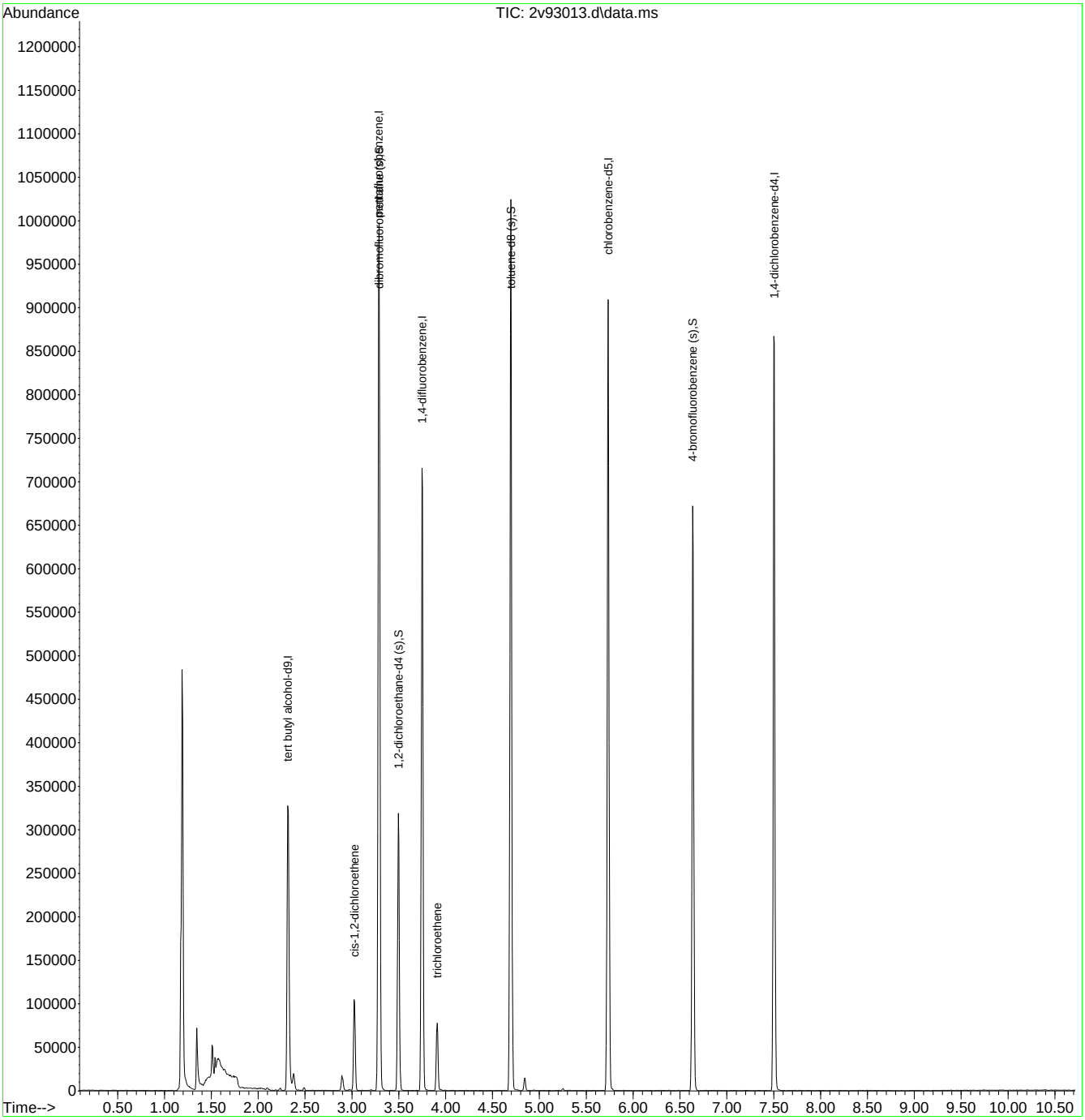
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 255341 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.285 | 168 | 305342 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 422601 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 391473 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 173178 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 152885 | 50.21 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.42% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 139816 | 46.66 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 93.32% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 490058 | 50.86 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.72% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 146625 | 47.42 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.84% | | | |
| Target Compounds | | | | | | Qvalue |
| 36) cis-1,2-dichloroethene | 3.029 | 96 | 30453 | 10.03 | ug/L | 90 |
| 59) trichloroethene | 3.909 | 95 | 16789 | 5.59 | ug/L | 96 |

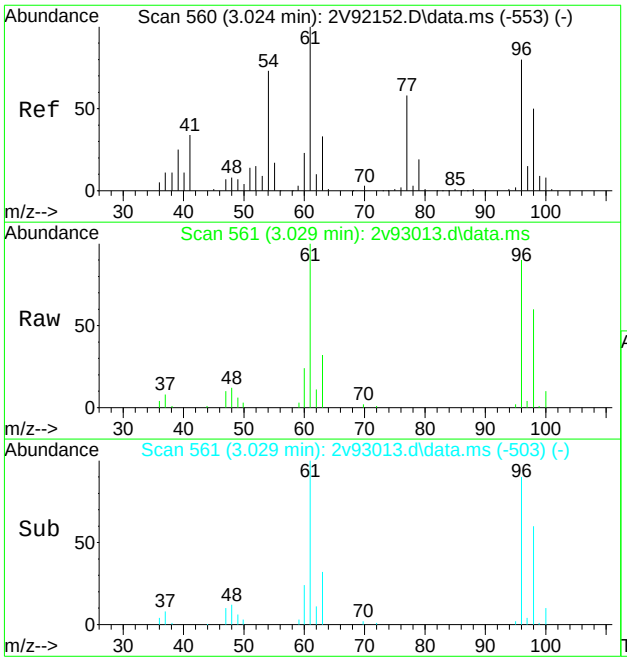
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93013.d
Acq On : 30 Sep 2022 2:41 am
Operator : KYLEM
Sample : jd52507-9 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 45 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:50:36 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

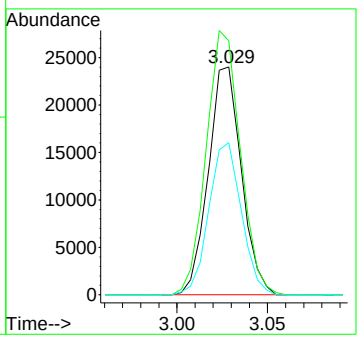


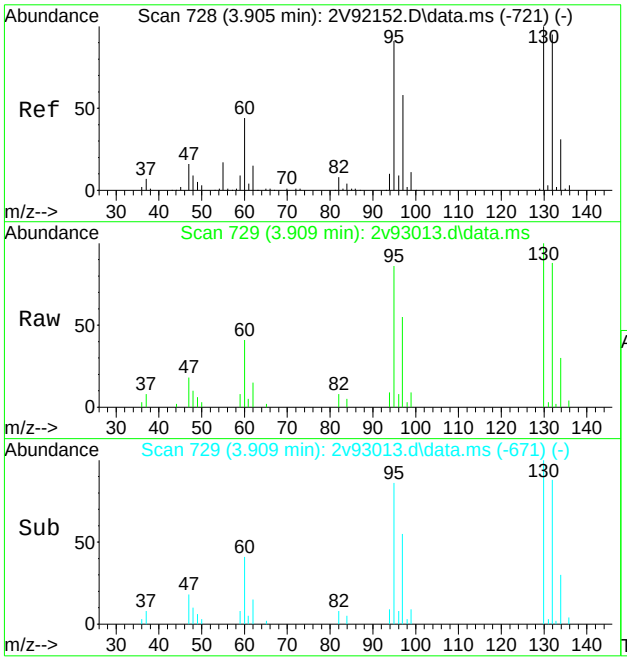



#36
cis-1,2-dichloroethene
Concen: 10.03 ug/L
RT: 3.029 min Scan# 561
Delta R.T. 0.005 min
Lab File: 2v93013.d
Acq: 30 Sep 2022 2:41 am

Tgt Ion: 96 Resp: 30453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 111.4 | 95.8 | 155.8 |
| 98 | 66.8 | 32.6 | 92.6 |

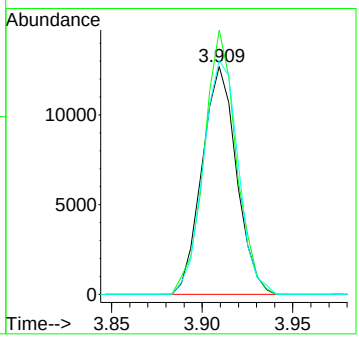



#59
trichloroethene
Concen: 5.59 ug/L
RT: 3.909 min Scan# 729
Delta R.T. 0.004 min
Lab File: 2v93013.d
Acq: 30 Sep 2022 2:41 am

Tgt Ion: 95 Resp: 16789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 116.0 | 80.3 | 140.3 |
| 132 | 102.6 | 75.3 | 135.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226613.d
Acq On : 30 Sep 2022 2:09 pm
Operator : nickw
Sample : jd52507-10 Inst : MSDTEST1A
Misc : MS62506, V1A9705,5,,,,20
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 08:16:41 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

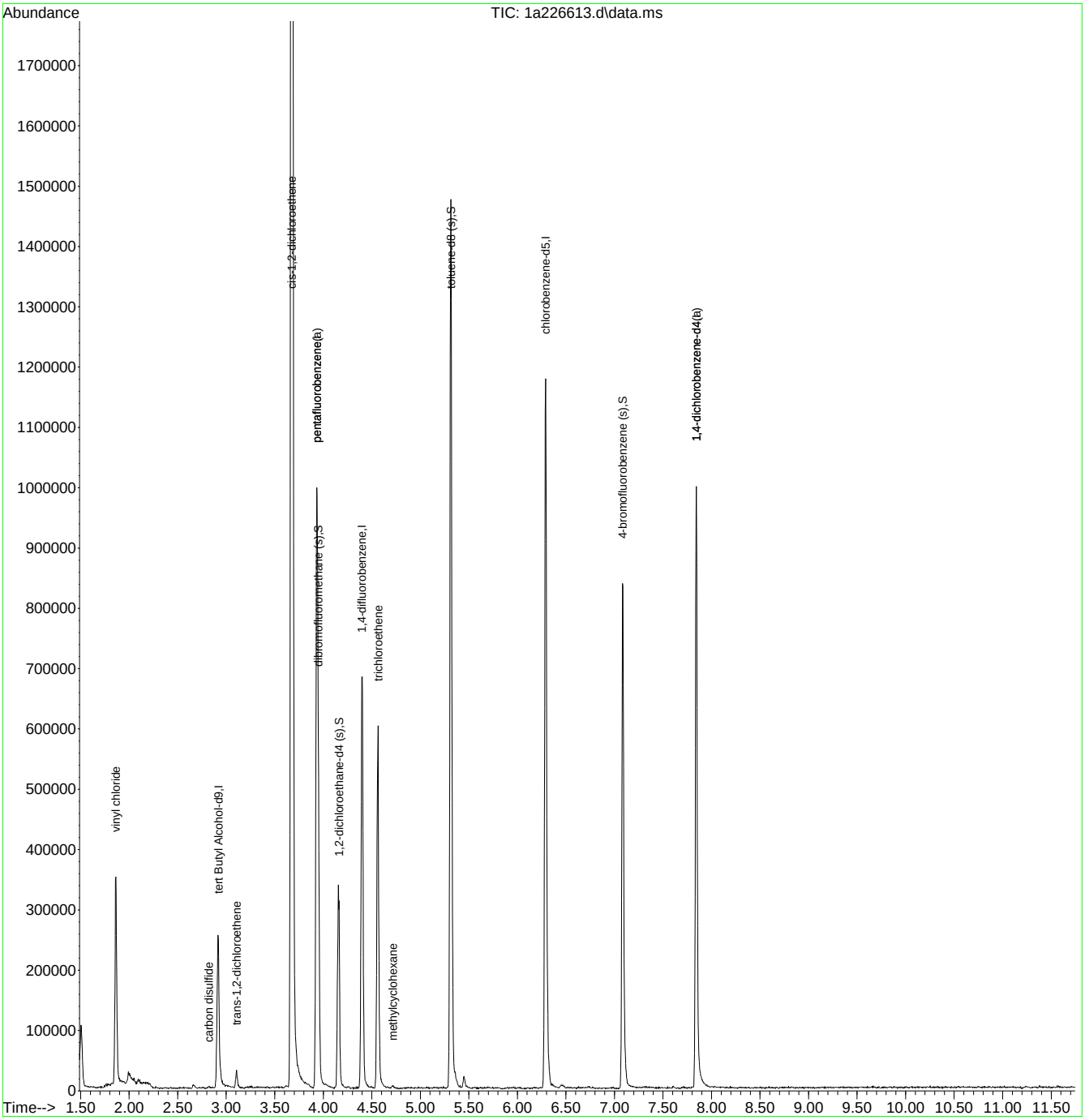
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.918 | 65 | 207860 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.932 | 168 | 419297 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.398 | 114 | 424623 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 551439 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 209853 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 3.932 | 168 | 419297 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 7.844 | 152 | 209853 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 182659 | 49.43 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.86% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.163 | 65 | 170399 | 57.95 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 115.90% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 774156 | 52.19 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.38% | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 209801 | 48.19 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.38% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.863 | 62 | 247352 | 48.21 | ug/L | 99 |
| 22) carbon disulfide | 2.822 | 76 | 2362 | 0.27 | ug/L | 69 |
| 26) trans-1,2-dichloroethene | 3.108 | 96 | 6551 | 2.10 | ug/L | 93 |
| 37) cis-1,2-dichloroethene | 3.676 | 96 | 2159962 | 617.12 | ug/L | 93 |
| 59) trichloroethene | 4.564 | 95 | 127760 | 54.70 | ug/L | 95 |
| 65) methylcyclohexane | 4.719 | 83 | 1263 | 0.35 | ug/L # | 58 |

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

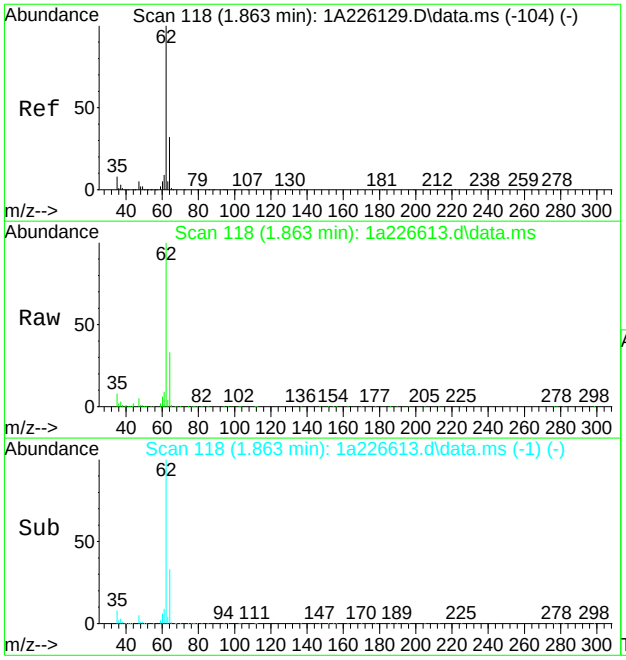
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226613.d
Acq On : 30 Sep 2022 2:09 pm
Operator : nickw
Sample : jd52507-10 Inst : MSDTEST1A
Misc : MS62506, V1A9705,5,,,,20
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 08:16:41 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration



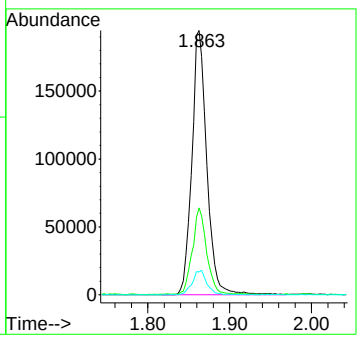

M1A9688.M Mon Oct 03 18:38:38 2022 Page: 2

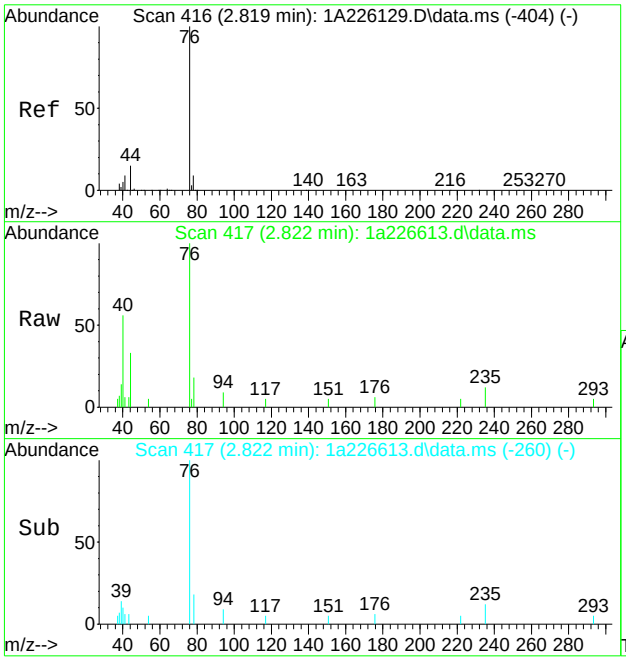



#9
vinyl chloride
Concen: 48.21 ug/L
RT: 1.863 min Scan# 118
Delta R.T. -0.000 min
Lab File: 1a226613.d
Acq: 30 Sep 2022 2:09 pm

Tgt Ion: 62 Resp: 247352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.6 | 2.4 | 62.4 |
| 61 | 8.6 | 0.0 | 39.0 |

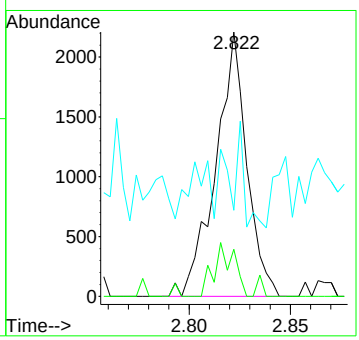


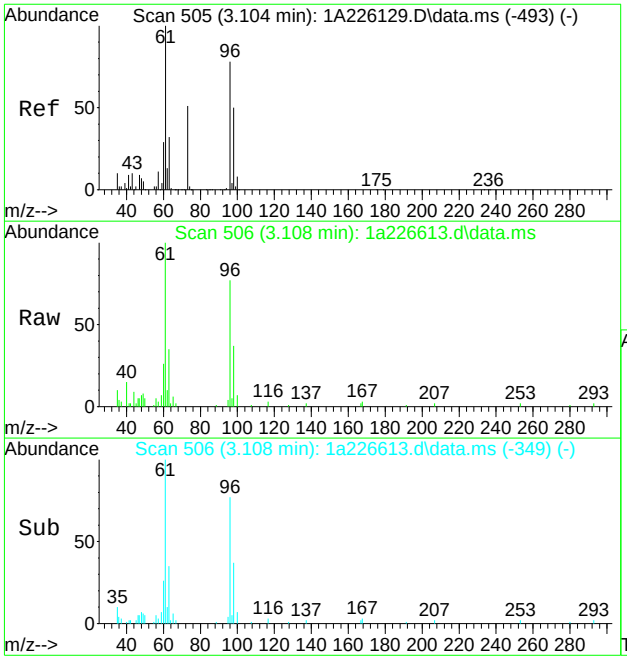




#22
carbon disulfide
Concen: 0.27 ug/L
RT: 2.822 min Scan# 417
Delta R.T. 0.003 min
Lab File: 1a226613.d
Acq: 30 Sep 2022 2:09 pm

Tgt Ion: 76 Resp: 2362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 17.9 | 0.0 | 39.4 |
| 44 | 0.0 | 0.0 | 45.3 |

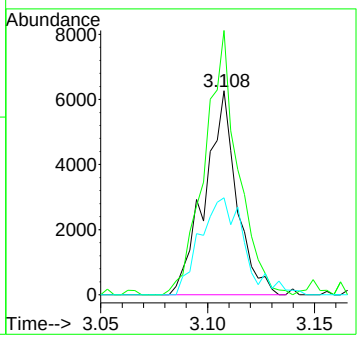


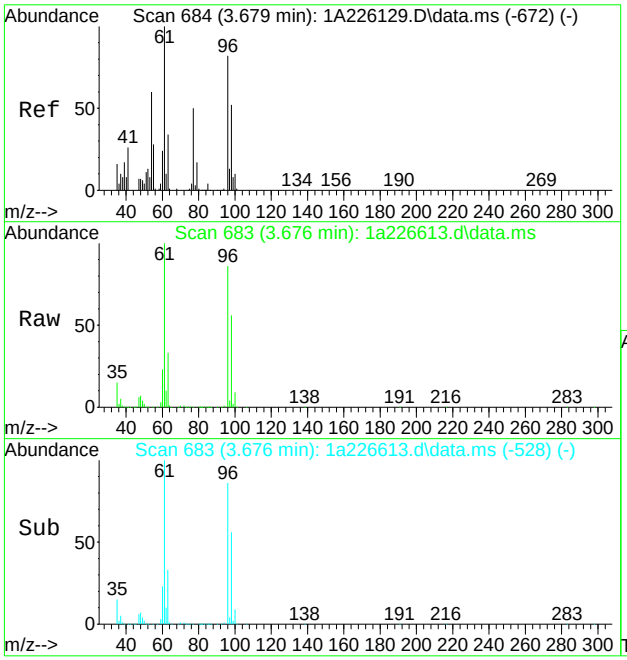



#26
trans-1,2-dichloroethene
Concen: 2.10 ug/L
RT: 3.108 min Scan# 506
Delta R.T. 0.004 min
Lab File: 1a226613.d
Acq: 30 Sep 2022 2:09 pm

Tgt Ion: 96 Resp: 6551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 127.6 | 98.1 | 158.1 |
| 98 | 47.5 | 33.9 | 93.9 |

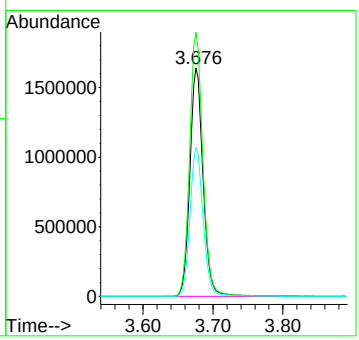


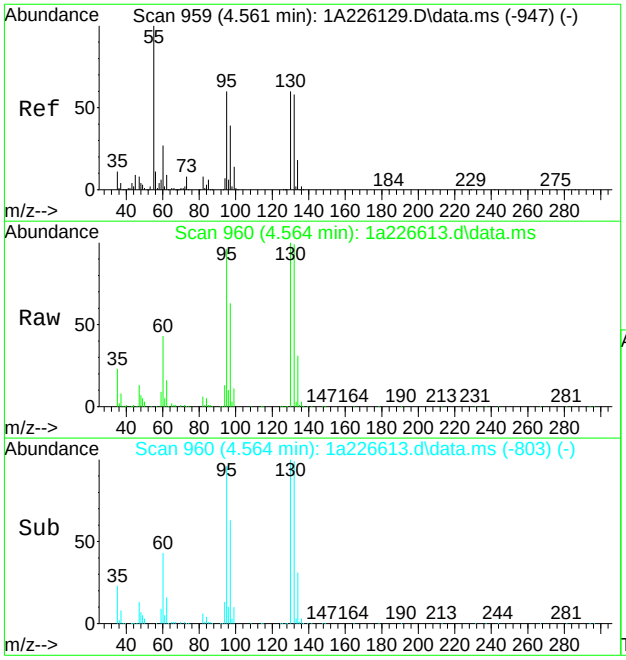




#37
cis-1,2-dichloroethene
Concen: 617.12 ug/L
RT: 3.676 min Scan# 683
Delta R.T. -0.003 min
Lab File: 1a226613.d
Acq: 30 Sep 2022 2:09 pm

Tgt Ion: 96 Resp: 2159962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 115.7 | 95.4 | 155.4 |
| 98 | 65.4 | 32.9 | 92.9 |

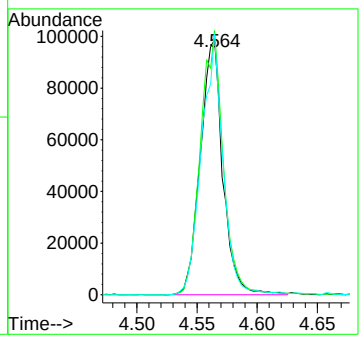


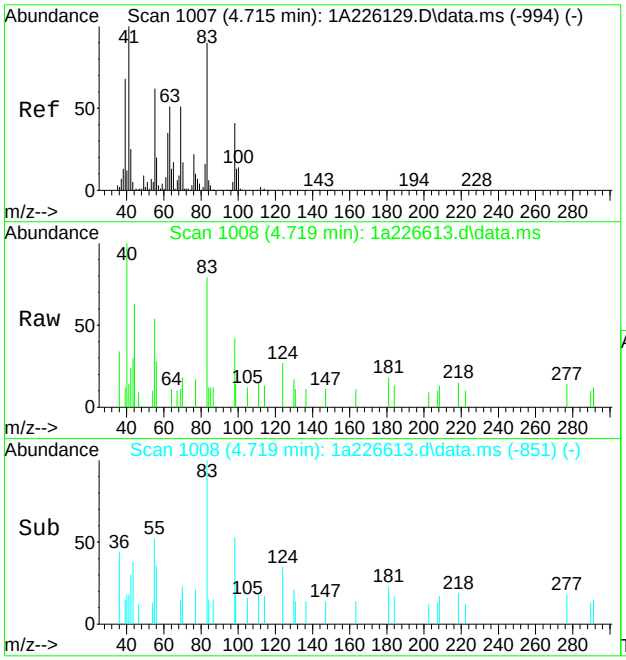



#59
trichloroethene
Concen: 54.70 ug/L
RT: 4.564 min Scan# 960
Delta R.T. 0.003 min
Lab File: 1a226613.d
Acq: 30 Sep 2022 2:09 pm

Tgt Ion: 95 Resp: 127760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 103.7 | 70.0 | 130.0 |
| 132 | 102.7 | 67.1 | 127.1 |

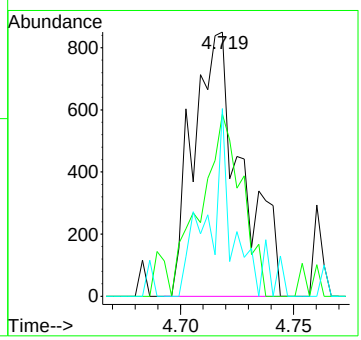



#65
methylcyclohexane
Concen: 0.35 ug/L
RT: 4.719 min Scan# 1008
Delta R.T. 0.004 min
Lab File: 1a226613.d
Acq: 30 Sep 2022 2:09 pm

Tgt Ion: 83 Resp: 1263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 104.9 | 38.6 | 98.6# |
| 98 | 71.0 | 15.4 | 75.4 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226618.d
Acq On : 30 Sep 2022 4:09 pm
Operator : nickw
Sample : jd52507-10 Inst : MSDTEST1A
Misc : MS62506, V1A9705,5,,,,100
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 08:27:14 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

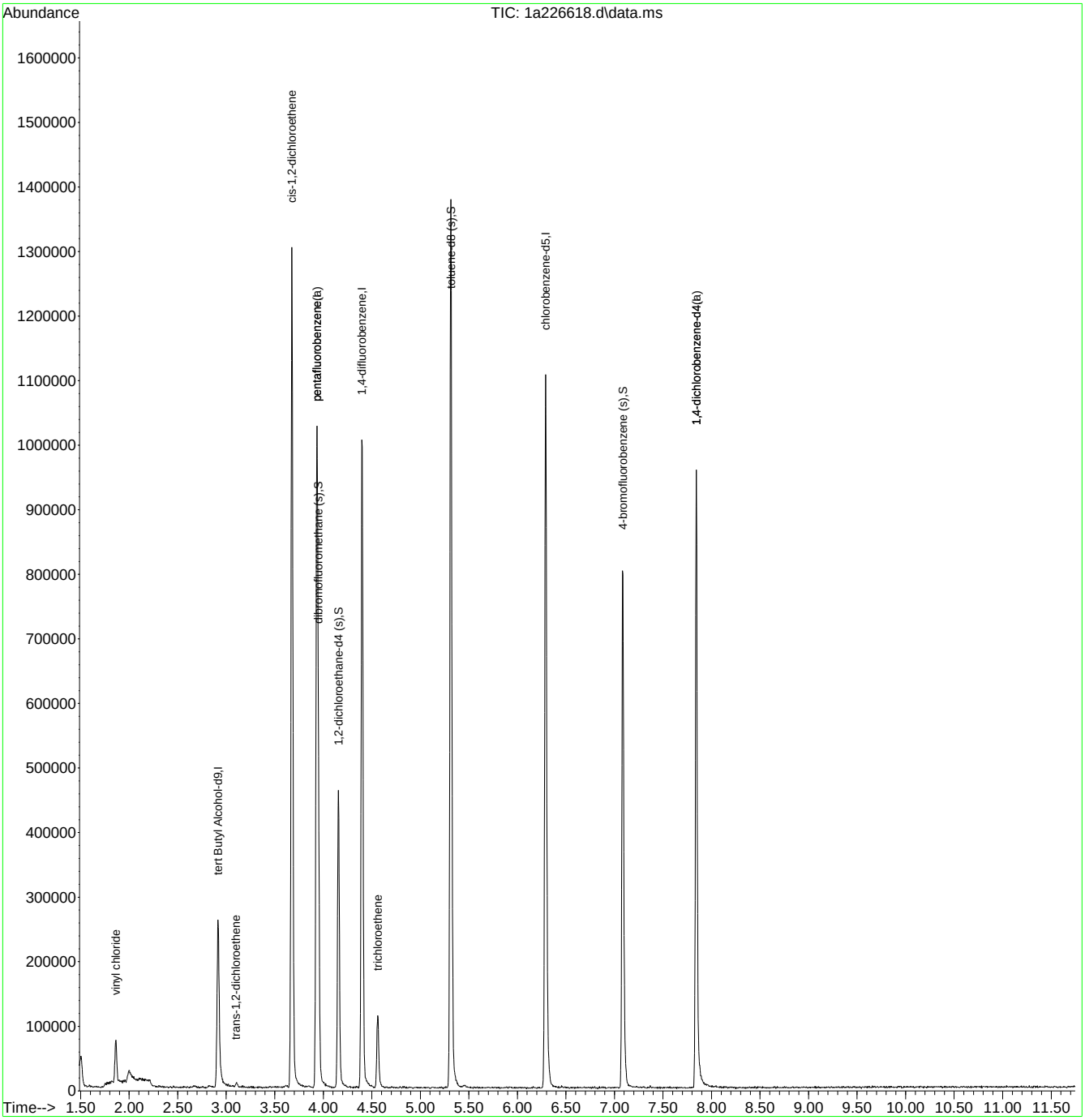
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.915 | 65 | 223540 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.932 | 168 | 426481 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.398 | 114 | 624692 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 528577 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 200139 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 3.932 | 168 | 426481 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 7.844 | 152 | 200139 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 189524 | 50.43 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.86% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 218563 | 50.53 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.06% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 731653 | 51.46 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.92% | | | |
| 97) 4-bromofluorobenzene (s) | 7.087 | 95 | 202532 | 48.77 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.54% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.863 | 62 | 49603 | 9.51 | ug/L | 97 |
| 26) trans-1,2-dichloroethene | 3.098 | 96 | 1850 | 0.58 | ug/L # | 63 |
| 37) cis-1,2-dichloroethene | 3.676 | 96 | 398264 | 111.87 | ug/L | 97 |
| 59) trichloroethene | 4.561 | 95 | 26698 | 7.77 | ug/L | 96 |

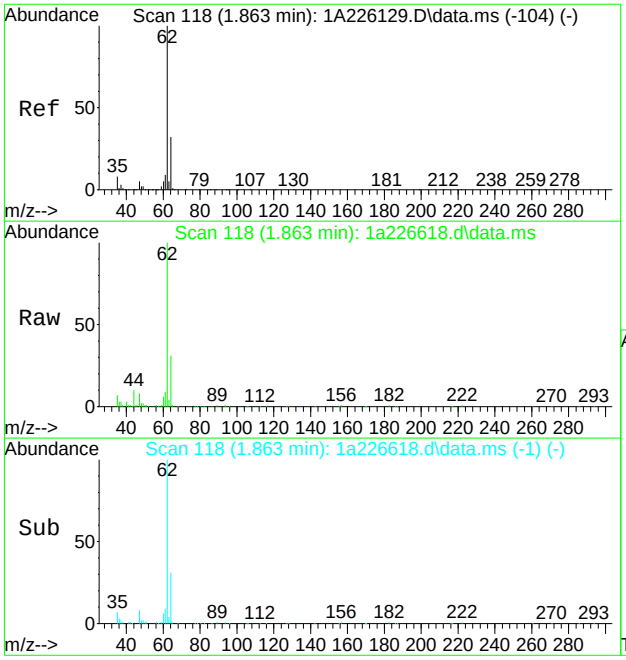
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226618.d
Acq On : 30 Sep 2022 4:09 pm
Operator : nickw
Sample : jd52507-10 Inst : MSDTEST1A
Misc : MS62506, V1A9705,5,,,,100
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 08:27:14 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

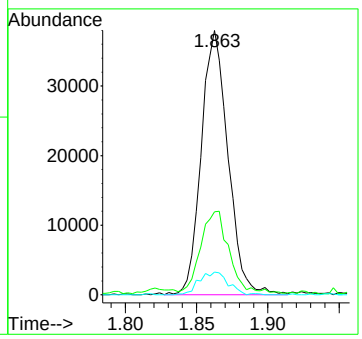


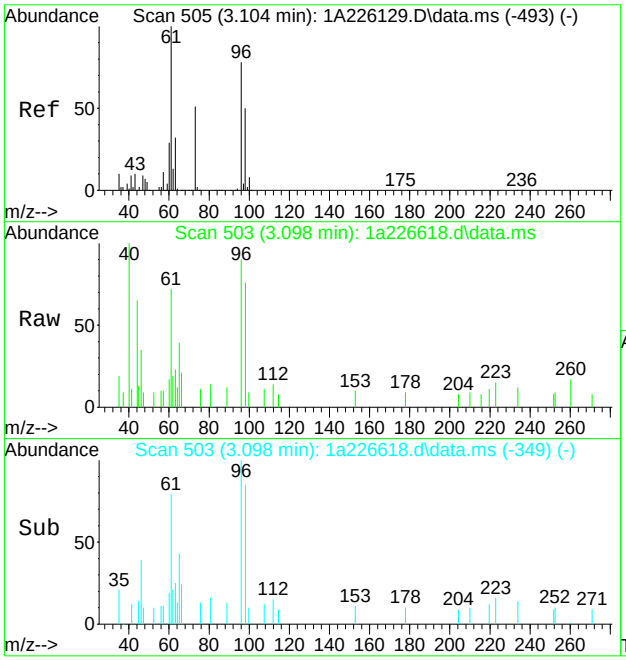



#9
vinyl chloride
Concen: 9.51 ug/L
RT: 1.863 min Scan# 118
Delta R.T. -0.000 min
Lab File: 1a226618.d
Acq: 30 Sep 2022 4:09 pm

Tgt Ion: 62 Resp: 49603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.6 | 2.4 | 62.4 |
| 61 | 8.6 | 0.0 | 39.0 |

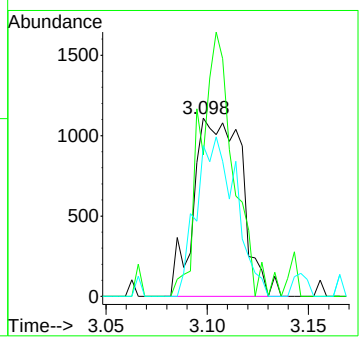


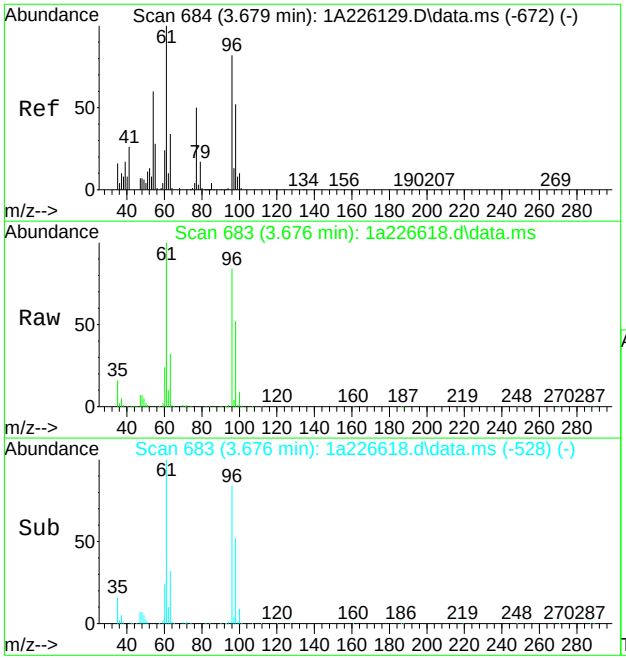




#26
trans-1,2-dichloroethene
Concen: 0.58 ug/L
RT: 3.098 min Scan# 503
Delta R.T. -0.006 min
Lab File: 1a226618.d
Acq: 30 Sep 2022 4:09 pm

Tgt Ion: 96 Resp: 1850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 79.3 | 98.1 | 158.1# |
| 98 | 84.5 | 33.9 | 93.9 |

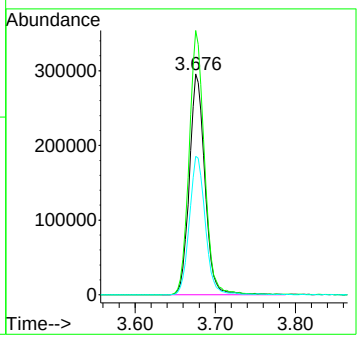


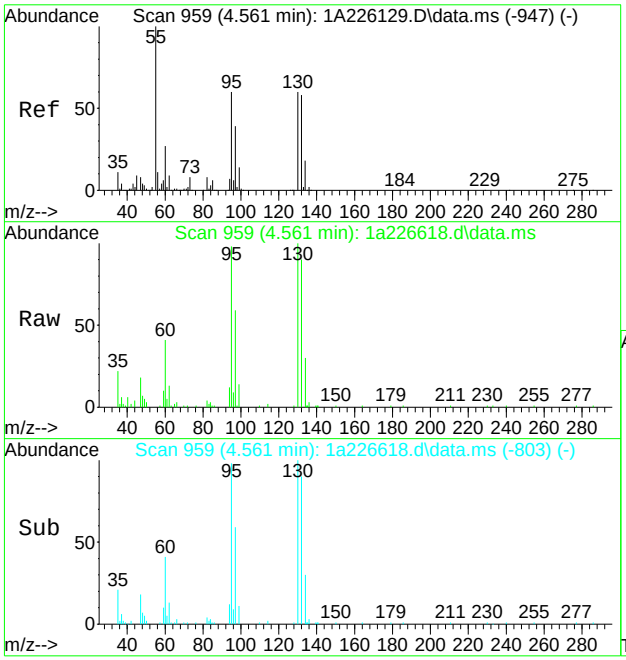



#37
cis-1,2-dichloroethene
Concen: 111.87 ug/L
RT: 3.676 min Scan# 683
Delta R.T. -0.003 min
Lab File: 1a226618.d
Acq: 30 Sep 2022 4:09 pm

Tgt Ion: 96 Resp: 398264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 119.7 | 95.4 | 155.4 |
| 98 | 62.6 | 32.9 | 92.9 |

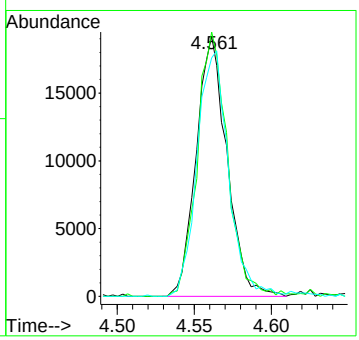



#59
trichloroethene
Concen: 7.77 ug/L
RT: 4.561 min Scan# 959
Delta R.T. 0.000 min
Lab File: 1a226618.d
Acq: 30 Sep 2022 4:09 pm

Tgt Ion: 95 Resp: 26698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 101.8 | 70.0 | 130.0 |
| 132 | 91.8 | 67.1 | 127.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93005.d
Acq On : 29 Sep 2022 11:35 pm
Operator : KYLEM
Sample : jd52507-10 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,100
ALS Vial : 37 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:39:00 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

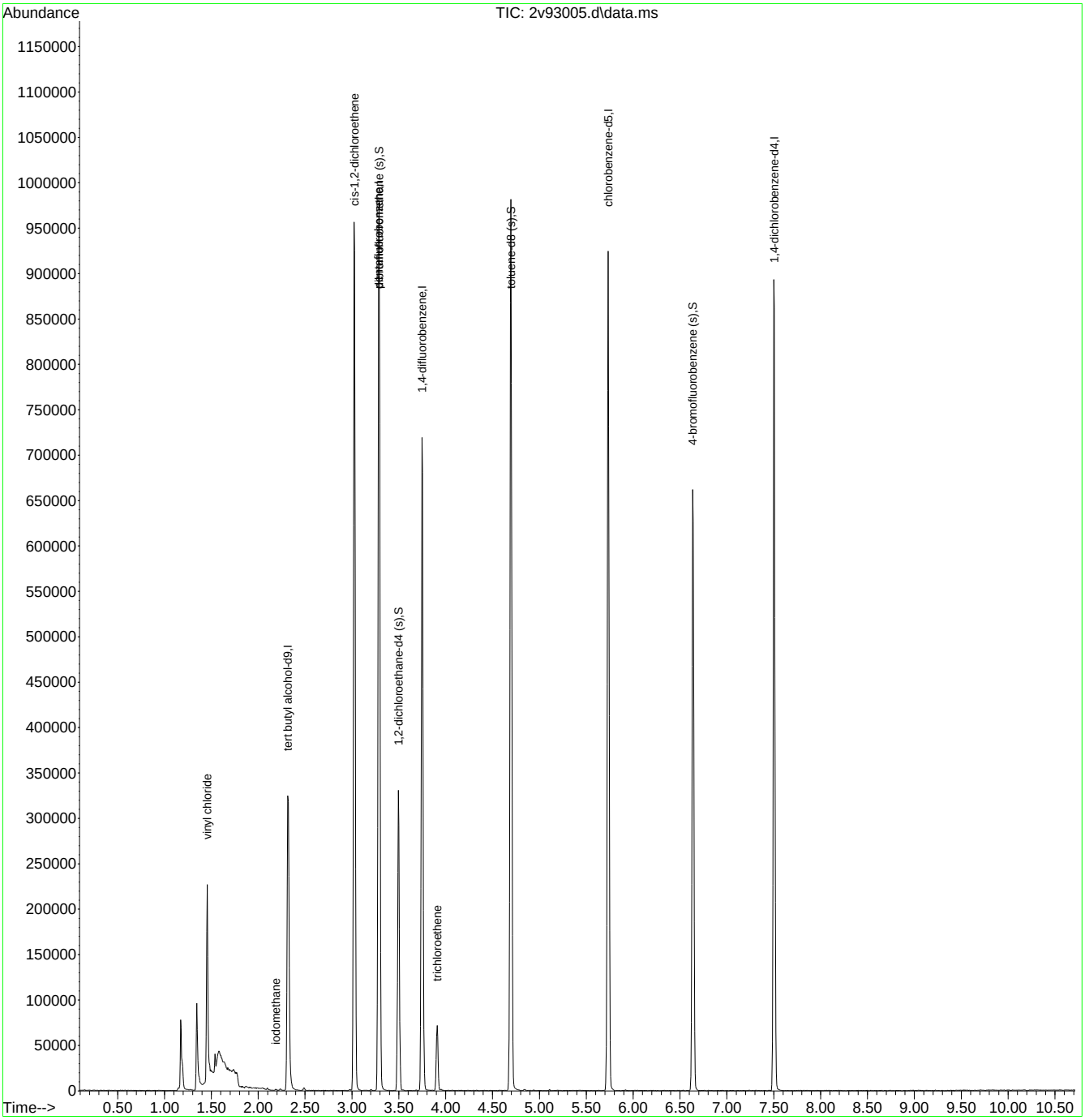
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 255317 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.285 | 168 | 306997 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 422066 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 392380 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 175796 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 151448 | 49.47 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.94% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 143251 | 47.87 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 95.74% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 490197 | 50.76 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.52% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 148768 | 47.40 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.80% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.456 | 62 | 122907 | 29.23 | ug/L | 98 |
| 20) iodomethane | 2.190 | 142 | 876 | 2.02 | ug/L | 83 |
| 36) cis-1,2-dichloroethene | 3.029 | 96 | 274858 | 90.06 | ug/L | 92 |
| 59) trichloroethene | 3.909 | 95 | 15506 | 5.17 | ug/L | 96 |

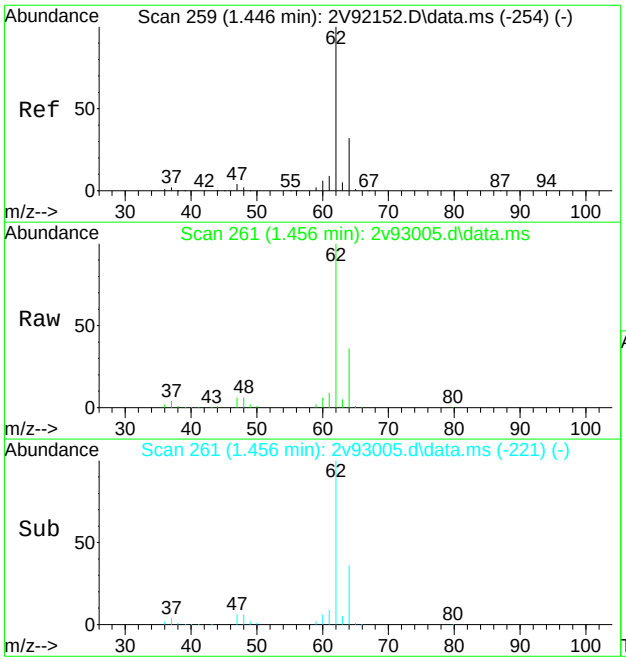
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93005.d
Acq On : 29 Sep 2022 11:35 pm
Operator : KYLEM
Sample : jd52507-10 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,100
ALS Vial : 37 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:39:00 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

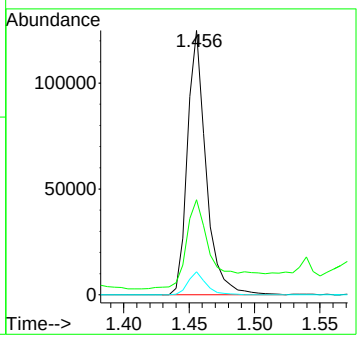


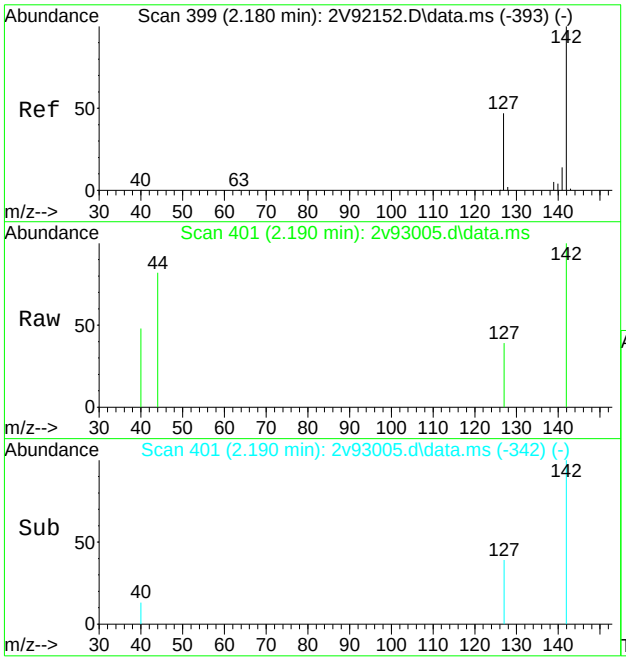



#9
vinyl chloride
Concen: 29.23 ug/L
RT: 1.456 min Scan# 261
Delta R.T. 0.010 min
Lab File: 2v93005.d
Acq: 29 Sep 2022 11:35 pm

Tgt Ion: 62 Resp: 122907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.1 | 2.1 | 62.1 |
| 61 | 8.7 | 0.0 | 38.8 |

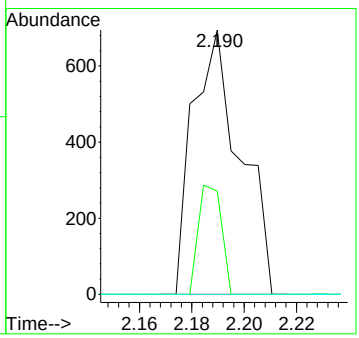


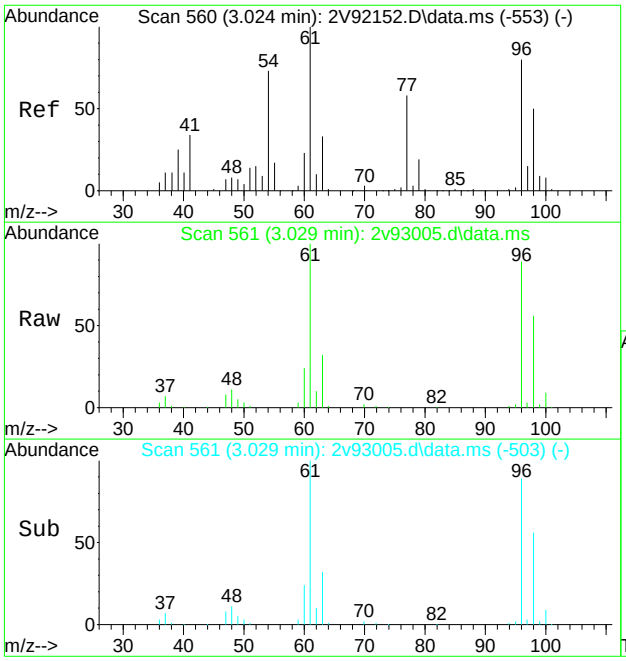




#20
iodomethane
Concen: 2.02 ug/L
RT: 2.190 min Scan# 401
Delta R.T. 0.010 min
Lab File: 2v93005.d
Acq: 29 Sep 2022 11:35 pm

Tgt Ion:142 Resp: 876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 39.0 | 16.8 | 76.8 |
| 141 | 0.0 | 0.0 | 44.0 |

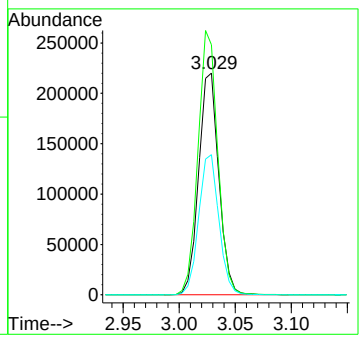


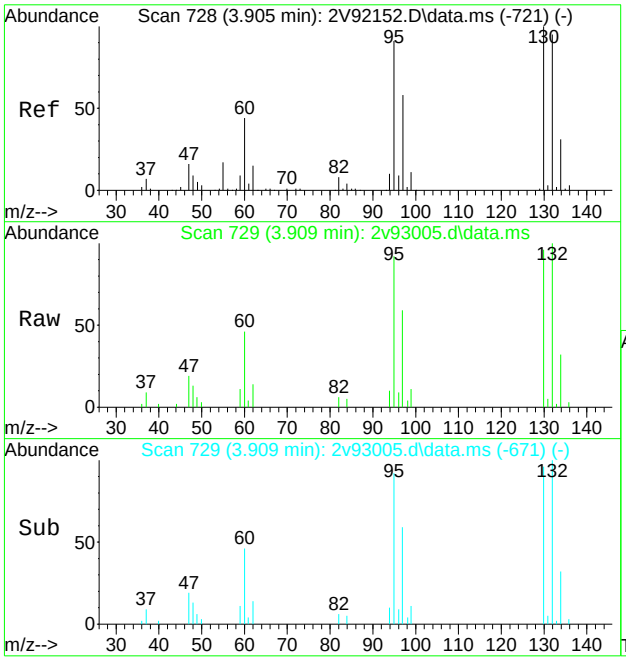



#36
cis-1,2-dichloroethene
Concen: 90.06 ug/L
RT: 3.029 min Scan# 561
Delta R.T. 0.005 min
Lab File: 2v93005.d
Acq: 29 Sep 2022 11:35 pm

Tgt Ion: 96 Resp: 274858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 112.8 | 95.8 | 155.8 |
| 98 | 63.3 | 32.6 | 92.6 |

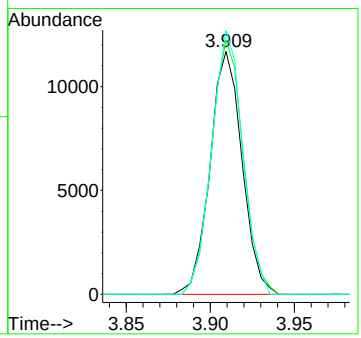



#59
trichloroethene
Concen: 5.17 ug/L
RT: 3.909 min Scan# 729
Delta R.T. 0.004 min
Lab File: 2v93005.d
Acq: 29 Sep 2022 11:35 pm

Tgt Ion: 95 Resp: 15506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 104.7 | 80.3 | 140.3 |
| 132 | 108.8 | 75.3 | 135.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93014.d
Acq On : 30 Sep 2022 3:04 am
Operator : KYLEM
Sample : jd52507-11 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,100
ALS Vial : 46 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:51:28 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

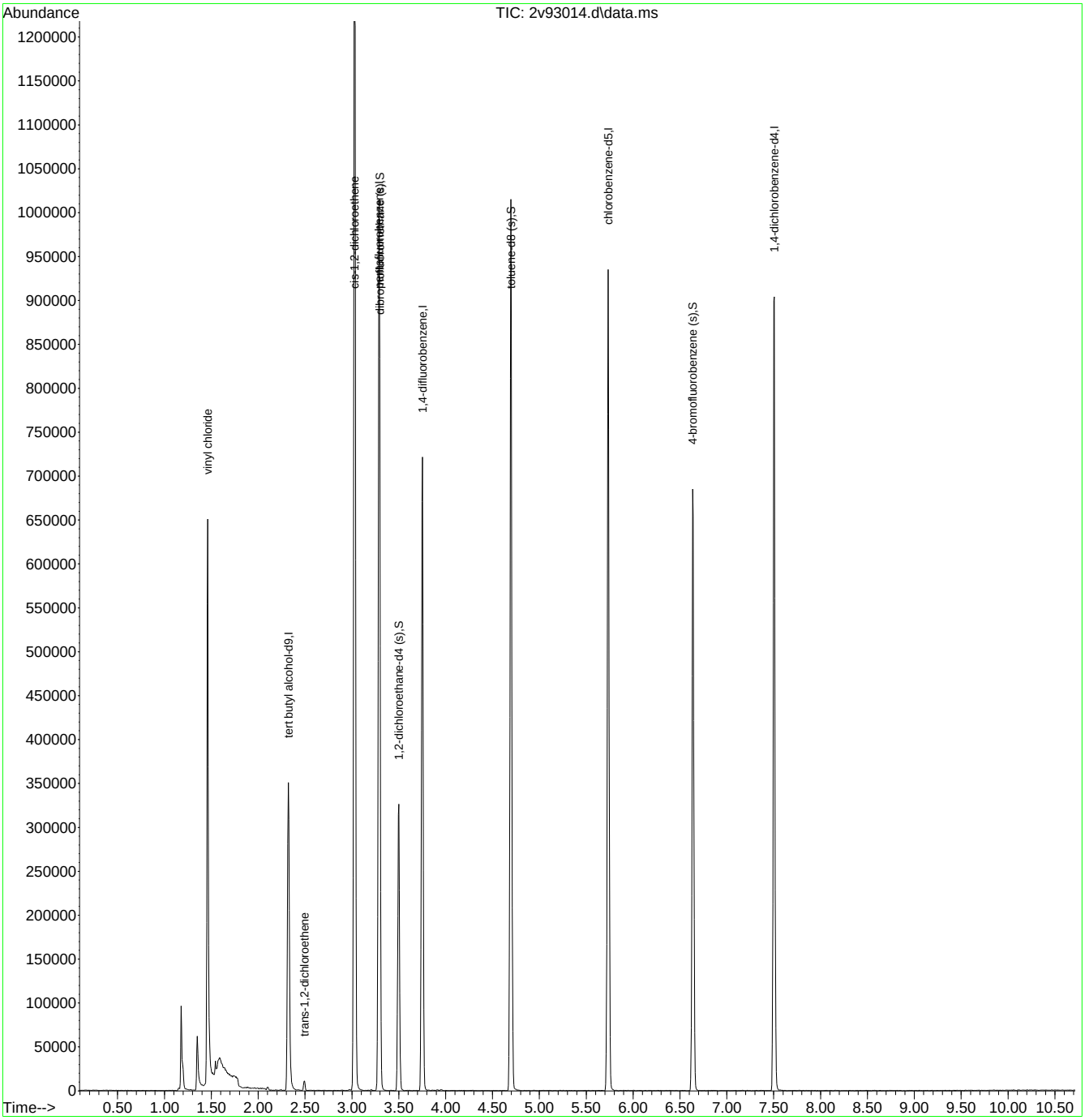
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 268744 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.291 | 168 | 304114 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 419592 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 395174 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 182584 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.296 | 113 | 153322 | 50.56 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.12% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.501 | 65 | 147093 | 49.44 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.88% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 492650 | 50.65 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.30% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 151562 | 46.49 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.98% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.461 | 62 | 373444 | 89.64 | ug/L | 97 |
| 25) trans-1,2-dichloroethene | 2.494 | 96 | 2932 | 1.12 | ug/L | 94 |
| 36) cis-1,2-dichloroethene | 3.029 | 96 | 441320 | 145.98 | ug/L | 95 |

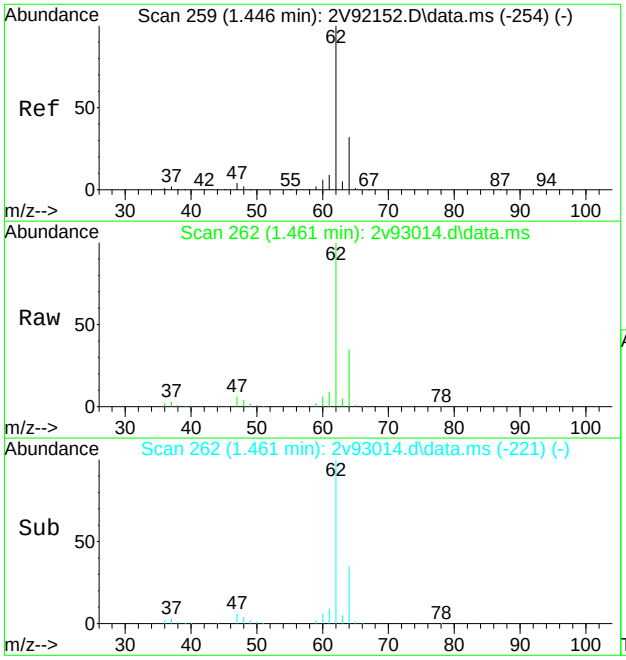
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93014.d
Acq On : 30 Sep 2022 3:04 am
Operator : KYLEM
Sample : jd52507-11 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,100
ALS Vial : 46 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:51:28 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

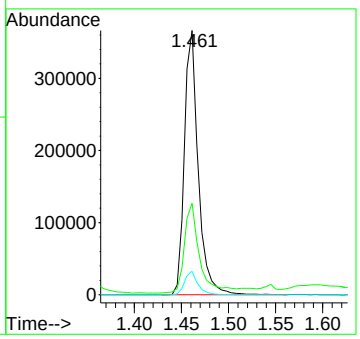


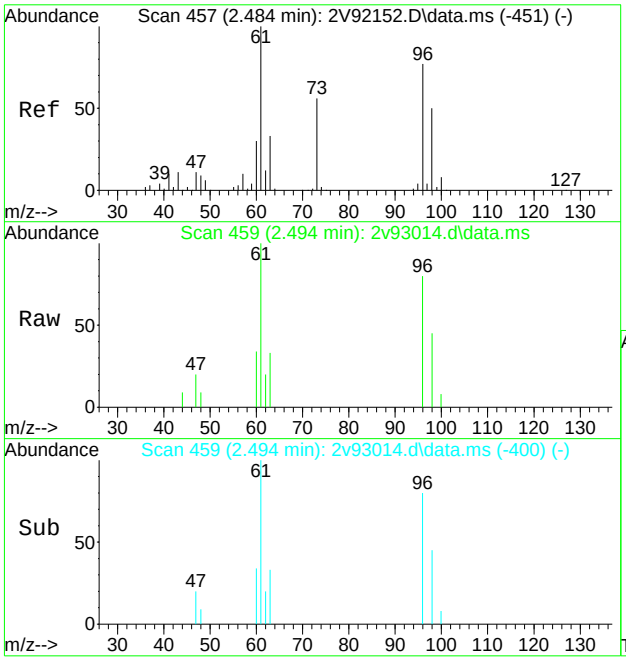



#9
vinyl chloride
Concen: 89.64 ug/L
RT: 1.461 min Scan# 262
Delta R.T. 0.015 min
Lab File: 2v93014.d
Acq: 30 Sep 2022 3:04 am

Tgt Ion: 62 Resp: 373444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.9 | 2.1 | 62.1 |
| 61 | 8.9 | 0.0 | 38.8 |

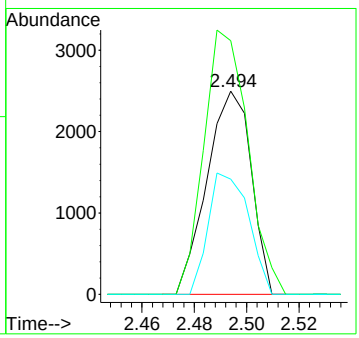


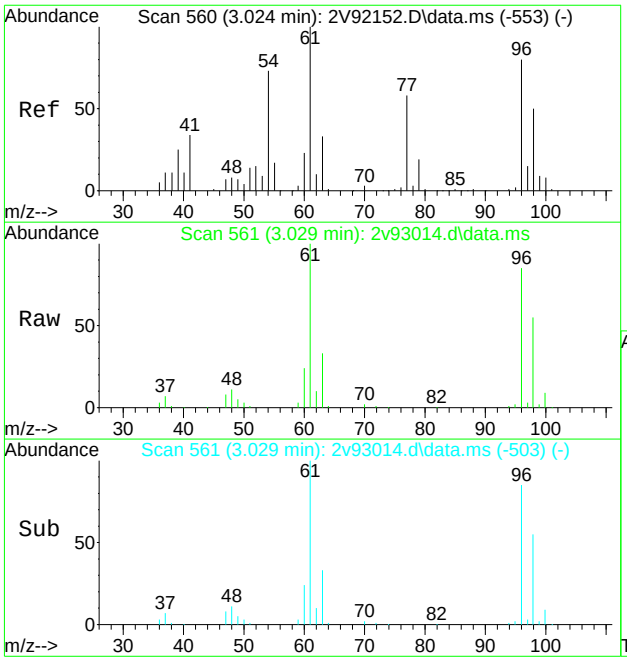




#25
trans-1,2-dichloroethene
Concen: 1.12 ug/L
RT: 2.494 min Scan# 459
Delta R.T. 0.010 min
Lab File: 2v93014.d
Acq: 30 Sep 2022 3:04 am

Tgt Ion: 96 Resp: 2932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 124.9 | 100.1 | 160.1 |
| 98 | 56.7 | 34.6 | 94.6 |

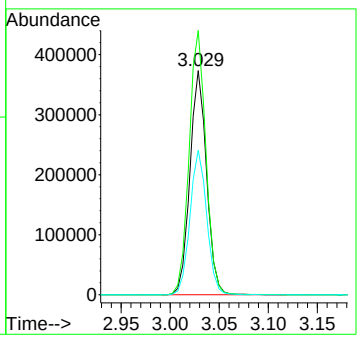





#36
cis-1,2-dichloroethene
Concen: 145.98 ug/L
RT: 3.029 min Scan# 561
Delta R.T. 0.005 min
Lab File: 2v93014.d
Acq: 30 Sep 2022 3:04 am

Tgt Ion: 96 Resp: 441320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 117.9 | 95.8 | 155.8 |
| 98 | 64.5 | 32.6 | 92.6 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220444.d
Acq On : 30 Sep 2022 12:15 pm
Operator : nicoleh
Sample : jd52507-12 Inst : GCMS2A
Misc : MS62506,V2A9583,5,,,,100
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 20:43:06 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

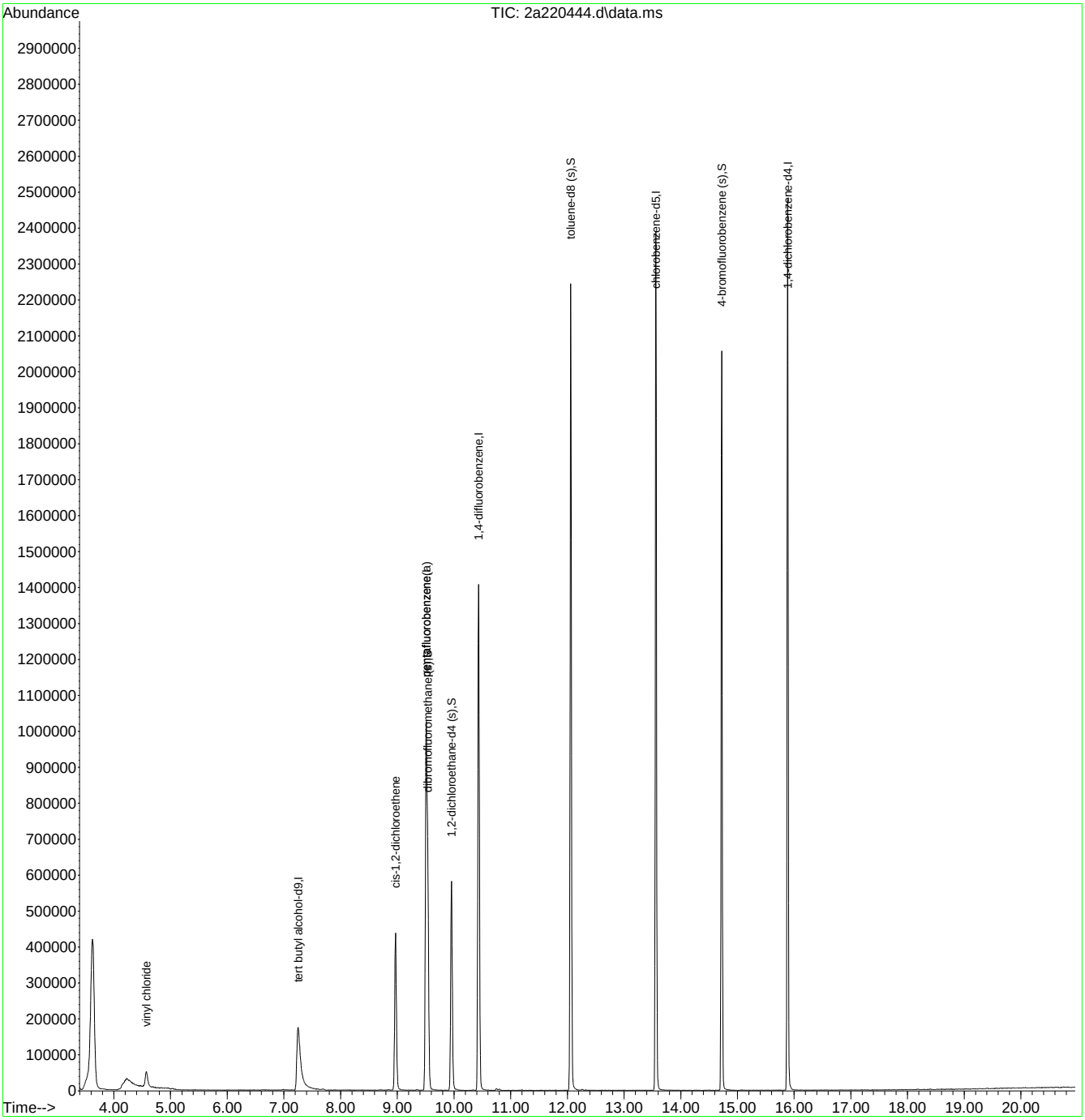
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.251 | 65 | 474861 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.511 | 168 | 724826 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.433 | 114 | 1140154 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.563 | 117 | 1186029 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 573382 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.511 | 168 | 723990 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 377360 | 55.31 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 110.62% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.956 | 65 | 439770 | 41.49 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 82.98% | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 1338546 | 46.07 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.14% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 588532 | 55.48 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 110.96% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 4.572 | 62 | 80822 | 8.39 | ug/L | 96 |
| 36) cis-1,2-dichloroethene | 8.970 | 96 | 210979 | 31.47 | ug/L | 95 |

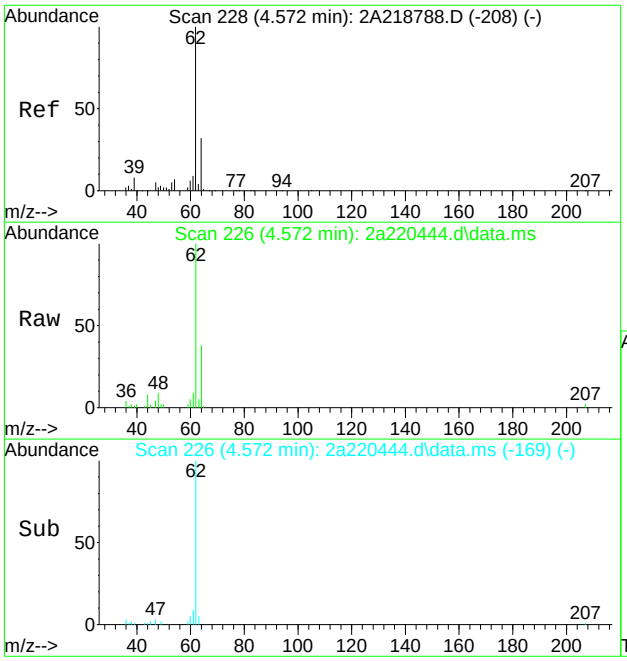
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220444.d
Acq On : 30 Sep 2022 12:15 pm
Operator : nicoleh
Sample : jd52507-12 Inst : GCMS2A
Misc : MS62506,V2A9583,5,,,,100
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 20:43:06 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

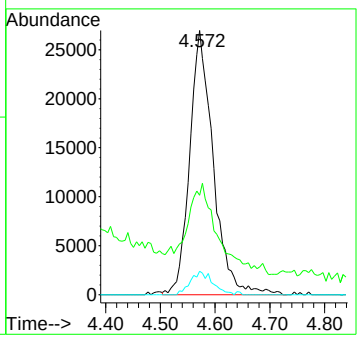


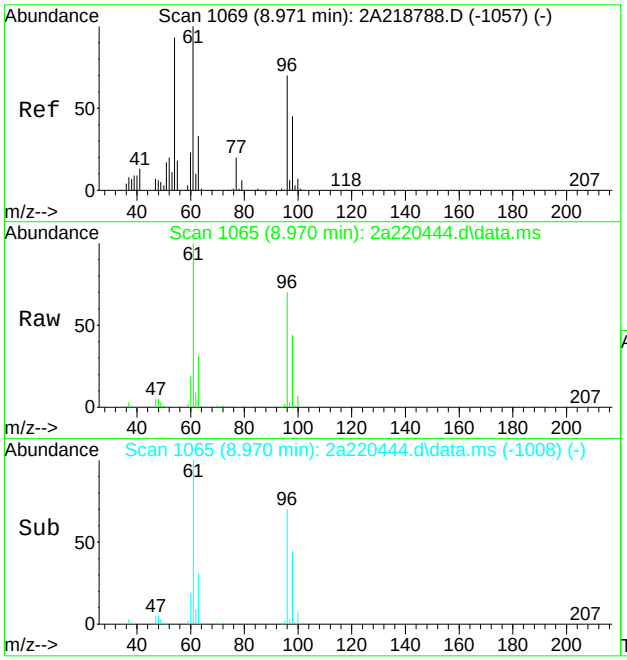



#9
vinyl chloride
Concen: 8.39 ug/L
RT: 4.572 min Scan# 226
Delta R.T. -0.001 min
Lab File: 2a220444.d
Acq: 30 Sep 2022 12:15 pm

Tgt Ion: 62 Resp: 80822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 29.1 | 2.1 | 62.1 |
| 61 | 8.9 | 0.0 | 38.8 |

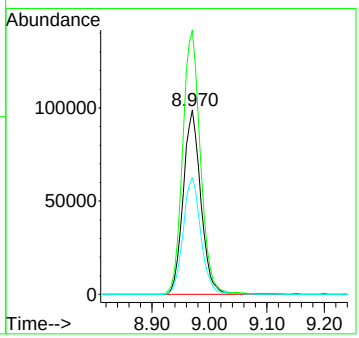



#36
cis-1,2-dichloroethene
Concen: 31.47 ug/L
RT: 8.970 min Scan# 1065
Delta R.T. -0.000 min
Lab File: 2a220444.d
Acq: 30 Sep 2022 12:15 pm

Tgt Ion: 96 Resp: 210979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 143.3 | 122.7 | 182.7 |
| 98 | 63.3 | 34.0 | 94.0 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93015.d
Acq On : 30 Sep 2022 3:27 am
Operator : KYLEM
Sample : jd52507-12 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,10
ALS Vial : 47 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:52:28 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

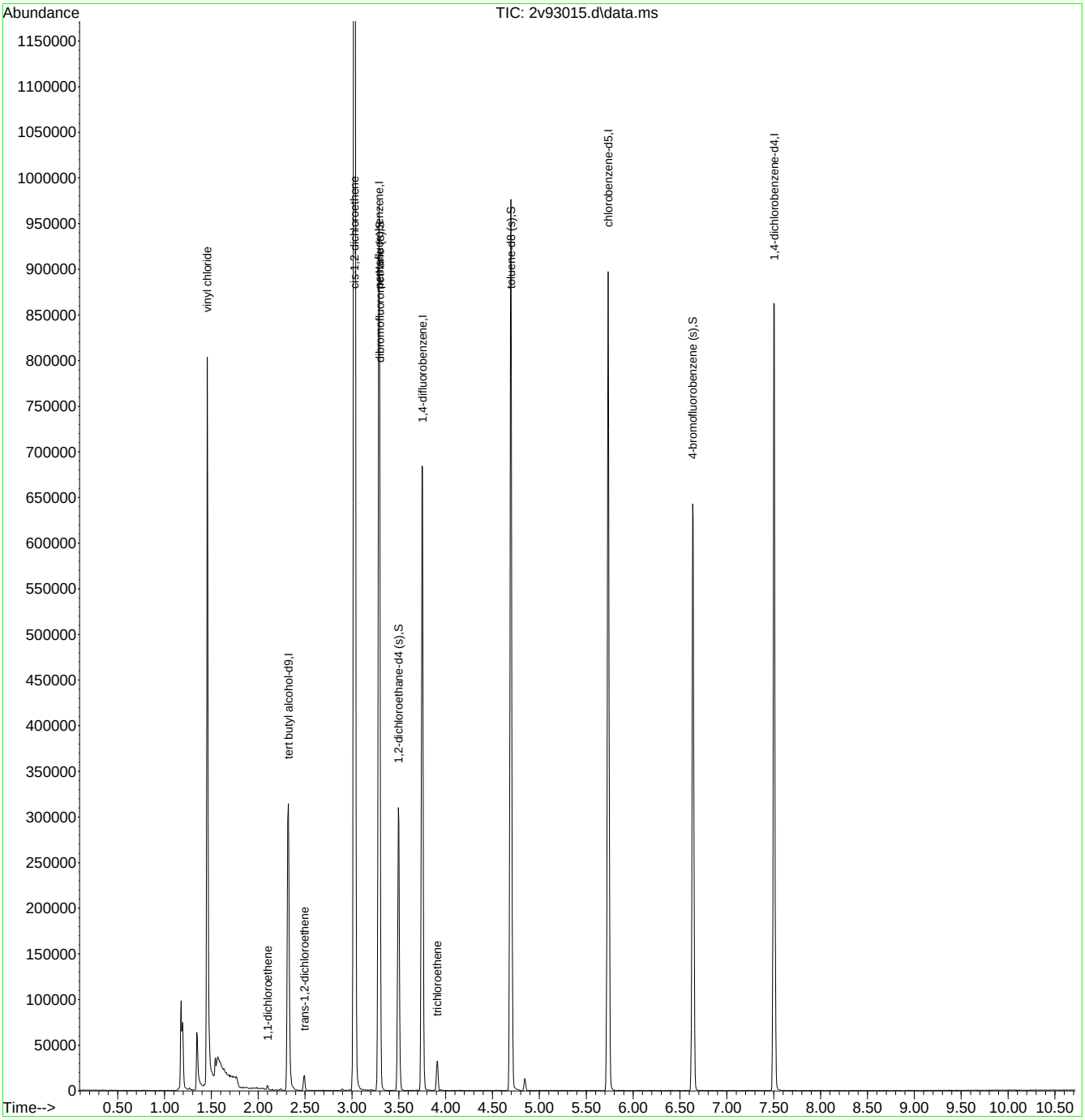
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 240805 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.291 | 168 | 292583 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 413515 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 381604 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 174874 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.296 | 113 | 148492 | 50.90 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.80% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 137388 | 46.86 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 93.72% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 477240 | 50.81 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.62% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 144292 | 46.21 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.42% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.456 | 62 | 446931 | 111.51 | ug/L | 99 |
| 17) 1,1-dichloroethene | 2.101 | 61 | 1351 | 0.38 | ug/L | 91 |
| 25) trans-1,2-dichloroethene | 2.494 | 96 | 4309 | 1.71 | ug/L | 92 |
| 36) cis-1,2-dichloroethene | 3.029 | 96 | 926368 | 318.50 | ug/L | 91 |
| 59) trichloroethene | 3.909 | 95 | 6763 | 2.30 | ug/L | 94 |

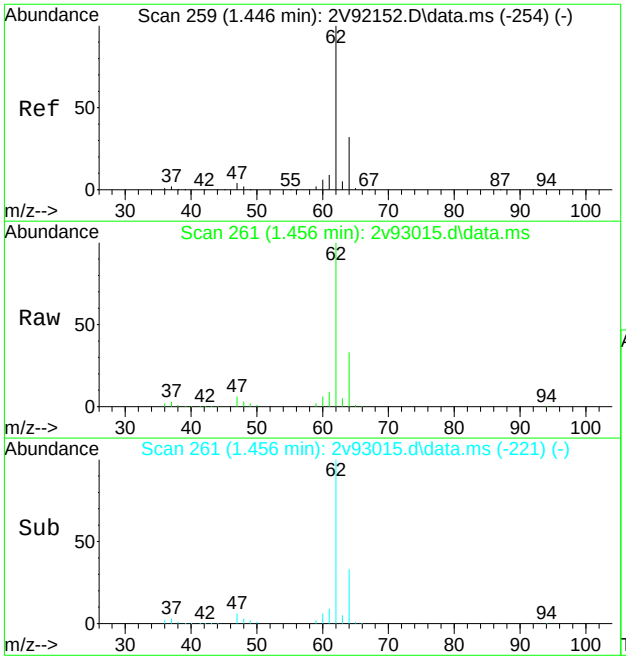
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93015.d
Acq On : 30 Sep 2022 3:27 am
Operator : KYLEM
Sample : jd52507-12 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,10
ALS Vial : 47 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:52:28 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

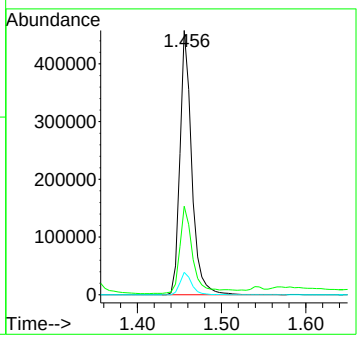


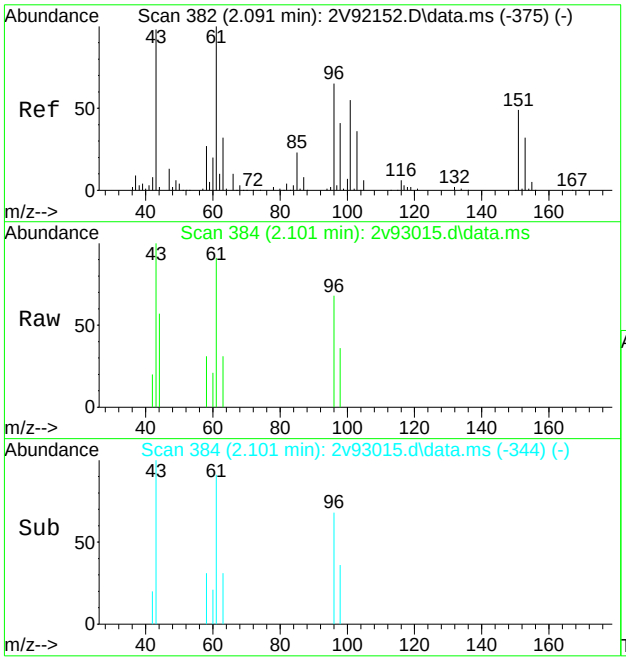



#9
vinyl chloride
Concen: 111.51 ug/L
RT: 1.456 min Scan# 261
Delta R.T. 0.010 min
Lab File: 2v93015.d
Acq: 30 Sep 2022 3:27 am

Tgt Ion: 62 Resp: 446931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.9 | 2.1 | 62.1 |
| 61 | 8.5 | 0.0 | 38.8 |

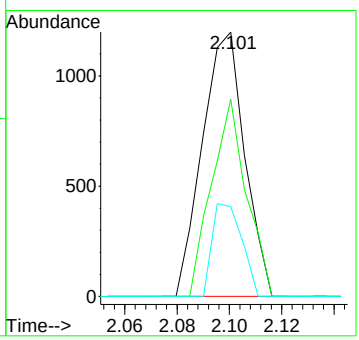


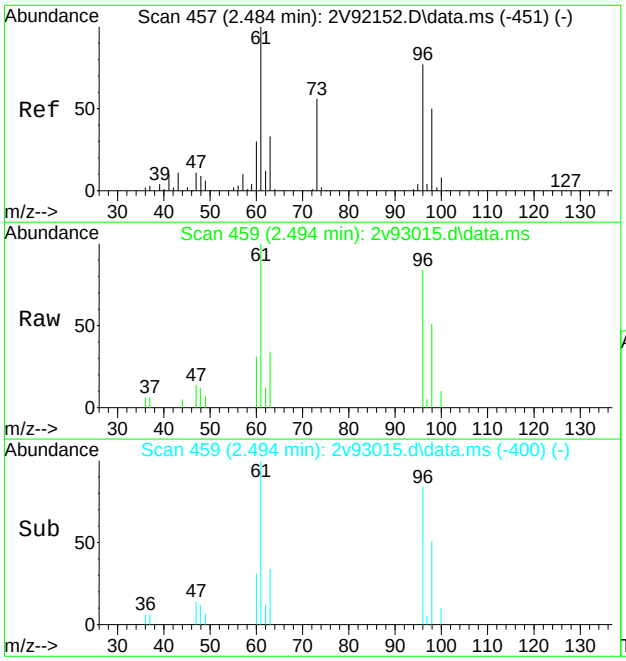




#17
1,1-dichloroethene
Concen: 0.38 ug/L
RT: 2.101 min Scan# 384
Delta R.T. 0.010 min
Lab File: 2v93015.d
Acq: 30 Sep 2022 3:27 am

Tgt Ion: 61 Resp: 1351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 74.6 | 34.7 | 94.7 |
| 63 | 33.9 | 2.3 | 62.3 |

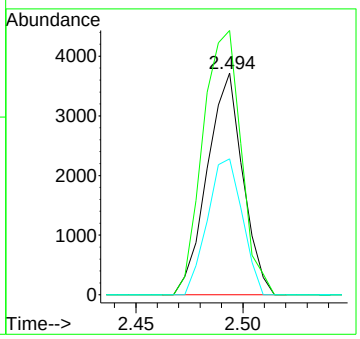


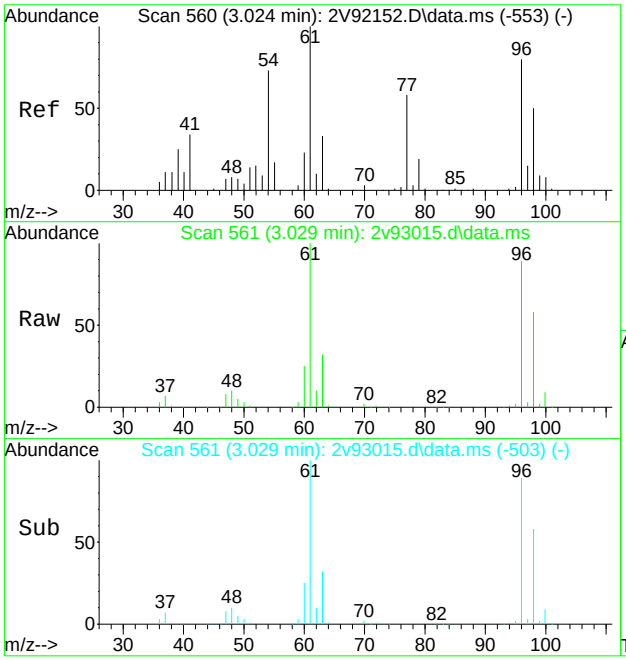



#25
trans-1,2-dichloroethene
Concen: 1.71 ug/L
RT: 2.494 min Scan# 459
Delta R.T. 0.010 min
Lab File: 2v93015.d
Acq: 30 Sep 2022 3:27 am

Tgt Ion: 96 Resp: 4309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 119.3 | 100.1 | 160.1 |
| 98 | 61.3 | 34.6 | 94.6 |

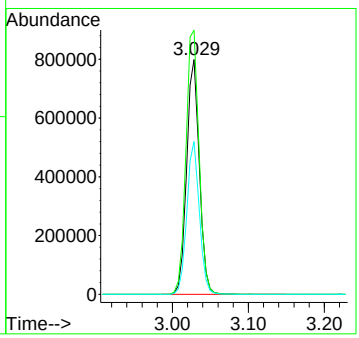


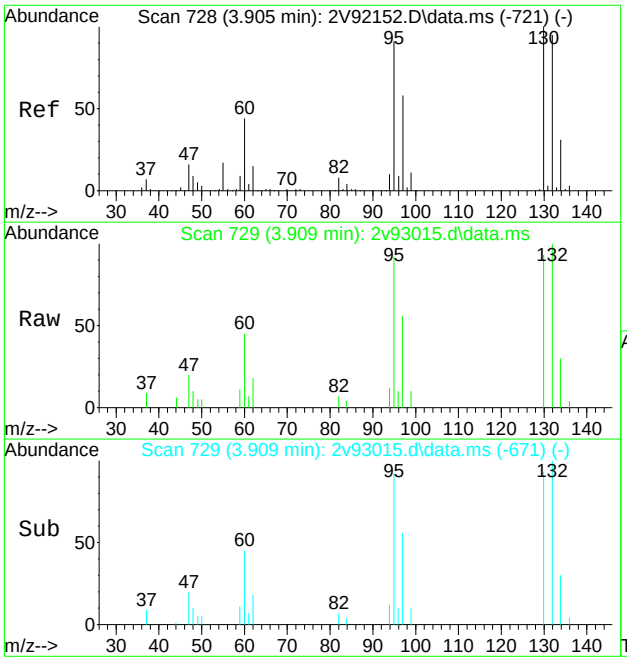




#36
cis-1,2-dichloroethene
Concen: 318.50 ug/L
RT: 3.029 min Scan# 561
Delta R.T. 0.005 min
Lab File: 2v93015.d
Acq: 30 Sep 2022 3:27 am

Tgt Ion: 96 Resp: 926368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 112.6 | 95.8 | 155.8 |
| 98 | 65.2 | 32.6 | 92.6 |

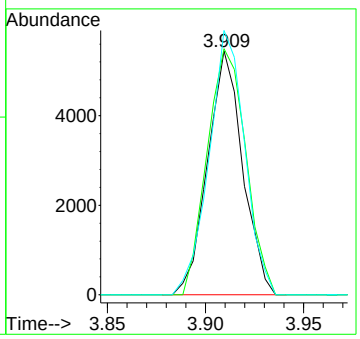





#59
trichloroethene
Concen: 2.30 ug/L
RT: 3.909 min Scan# 729
Delta R.T. 0.004 min
Lab File: 2v93015.d
Acq: 30 Sep 2022 3:27 am

Tgt Ion: 95 Resp: 6763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 100.9 | 80.3 | 140.3 |
| 132 | 108.4 | 75.3 | 135.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220446.d
Acq On : 30 Sep 2022 1:12 pm
Operator : nicoleh
Sample : jd52507-13 Inst : GCMS2A
Misc : MS62506,V2A9583,5,,,,100
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 20:58:15 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

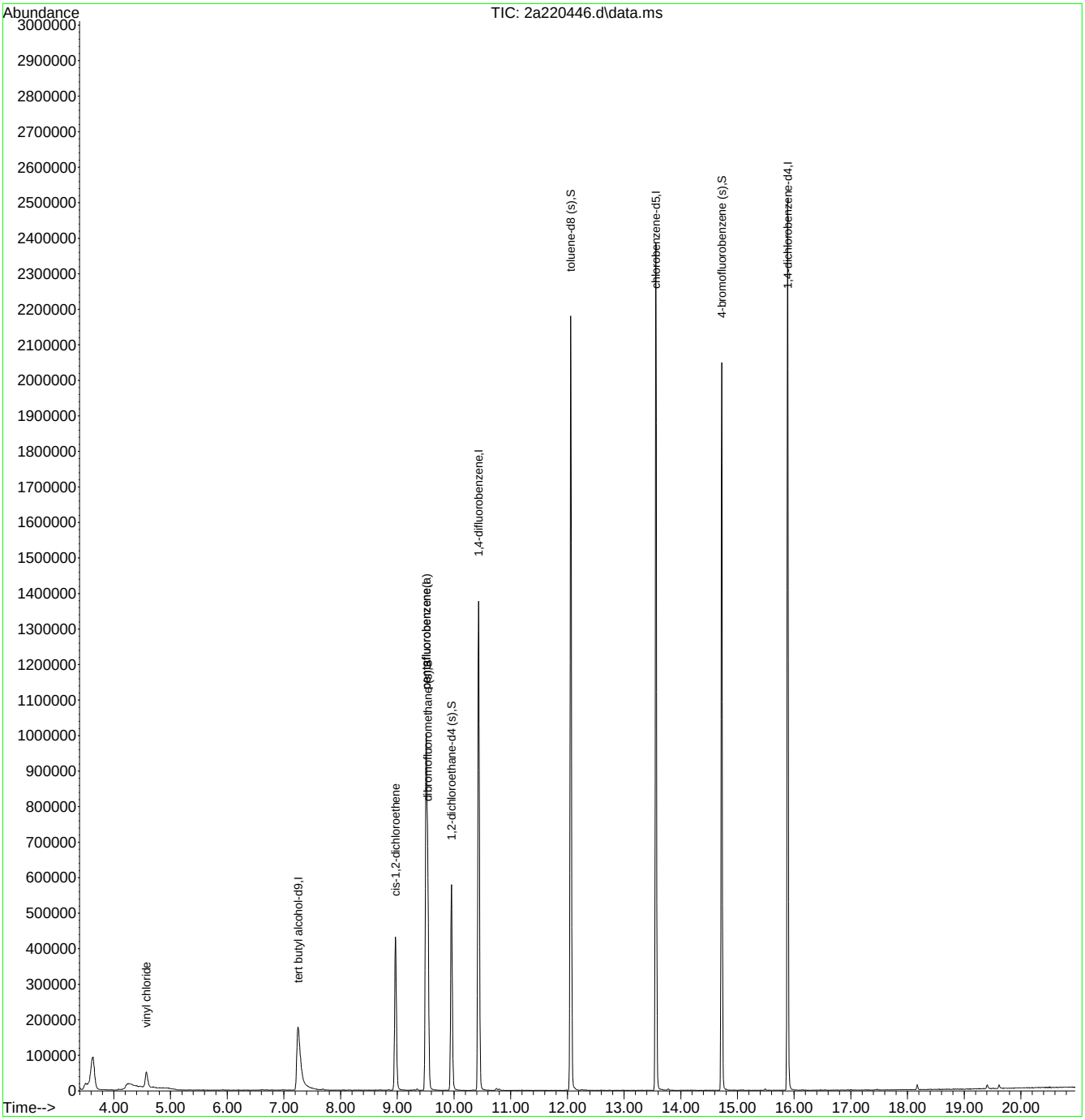
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.251 | 65 | 491791 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.511 | 168 | 716367 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.433 | 114 | 1127838 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.563 | 117 | 1176716 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 576537 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.511 | 168 | 715773 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 369088 | 54.73 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 109.46% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.956 | 65 | 435851 | 41.57 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 83.14% | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 1325329 | 45.98 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 91.96% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 587170 | 55.05 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 110.10% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 4.572 | 62 | 82660 | 8.68 | ug/L | 97 |
| 36) cis-1,2-dichloroethene | 8.971 | 96 | 212111 | 32.02 | ug/L | 93 |

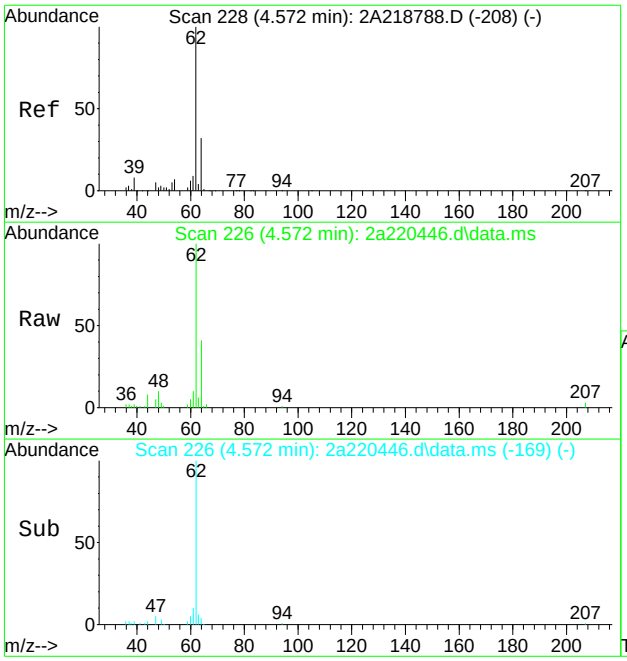
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220446.d
Acq On : 30 Sep 2022 1:12 pm
Operator : nicoleh
Sample : jd52507-13 Inst : GCMS2A
Misc : MS62506,V2A9583,5,,,,100
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 20:58:15 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

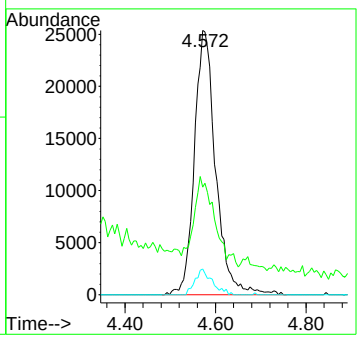


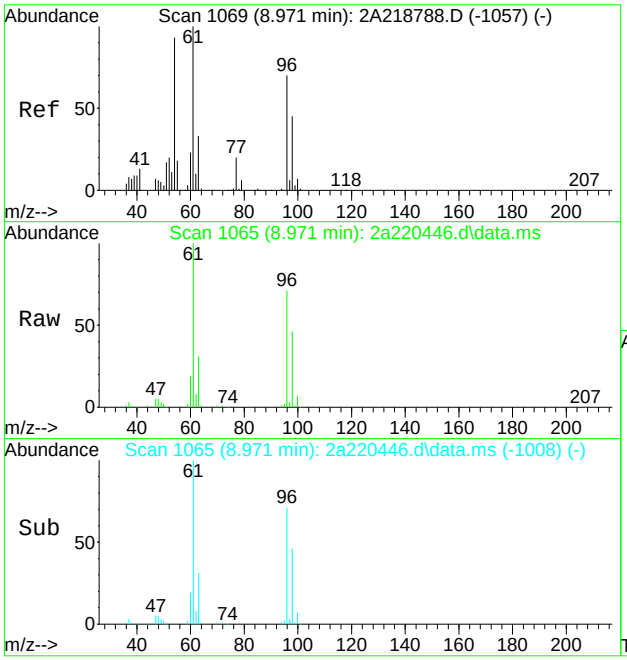



#9
vinyl chloride
Concen: 8.68 ug/L
RT: 4.572 min Scan# 226
Delta R.T. -0.001 min
Lab File: 2a220446.d
Acq: 30 Sep 2022 1:12 pm

Tgt Ion: 62 Resp: 82660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.3 | 2.1 | 62.1 |
| 61 | 9.8 | 0.0 | 38.8 |

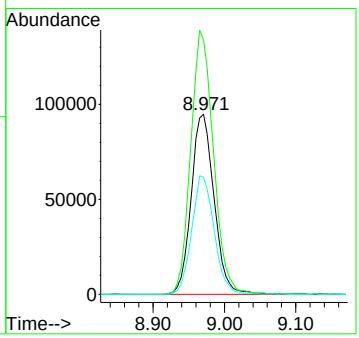



#36
cis-1,2-dichloroethene
Concen: 32.02 ug/L
RT: 8.971 min Scan# 1065
Delta R.T. -0.000 min
Lab File: 2a220446.d
Acq: 30 Sep 2022 1:12 pm

Tgt Ion: 96 Resp: 212111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.1 | 122.7 | 182.7 |
| 98 | 65.0 | 34.0 | 94.0 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93016.d
Acq On : 30 Sep 2022 3:50 am
Operator : KYLEM
Sample : jd52507-13 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,10
ALS Vial : 48 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:53:32 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

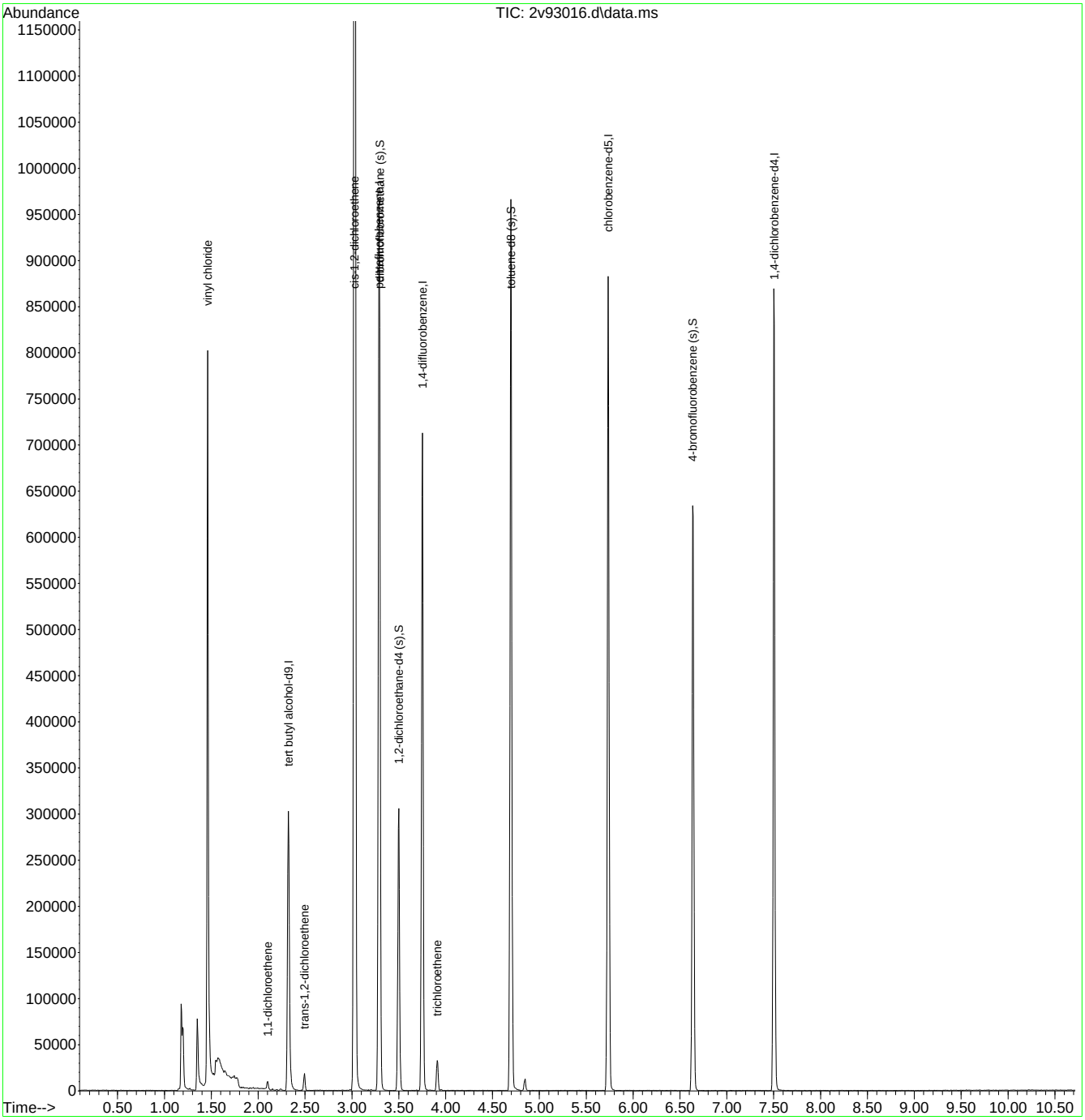
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 225627 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.291 | 168 | 297501 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 415372 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 379520 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 171164 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.296 | 113 | 145457 | 49.03 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.06% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.501 | 65 | 133499 | 45.33 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 90.66% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 475089 | 50.86 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.72% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 141308 | 46.24 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.48% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.461 | 62 | 440739 | 108.15 | ug/L | 99 |
| 17) 1,1-dichloroethene | 2.101 | 61 | 1900 | 0.52 | ug/L | 92 |
| 25) trans-1,2-dichloroethene | 2.494 | 96 | 4291 | 1.68 | ug/L | 92 |
| 36) cis-1,2-dichloroethene | 3.029 | 96 | 917048 | 310.09 | ug/L | 94 |
| 59) trichloroethene | 3.910 | 95 | 7080 | 2.40 | ug/L | 85 |

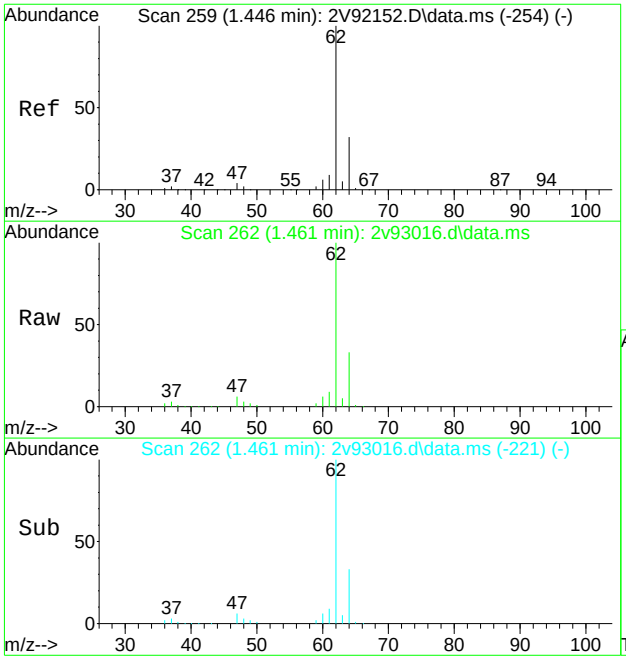
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93016.d
Acq On : 30 Sep 2022 3:50 am
Operator : KYLEM
Sample : jd52507-13 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,10
ALS Vial : 48 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:53:32 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

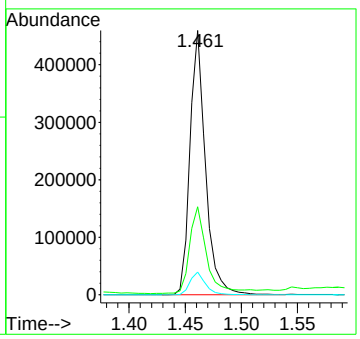


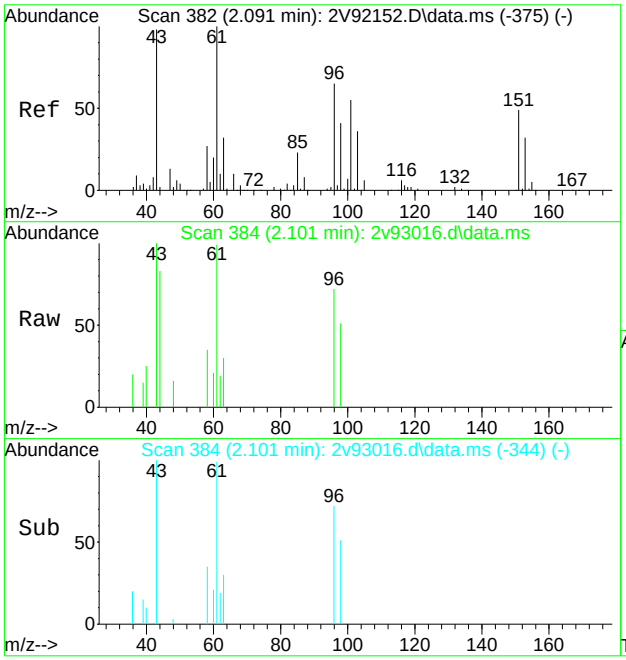



#9
vinyl chloride
Concen: 108.15 ug/L
RT: 1.461 min Scan# 262
Delta R.T. 0.015 min
Lab File: 2v93016.d
Acq: 30 Sep 2022 3:50 am

Tgt Ion: 62 Resp: 440739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.7 | 2.1 | 62.1 |
| 61 | 8.6 | 0.0 | 38.8 |

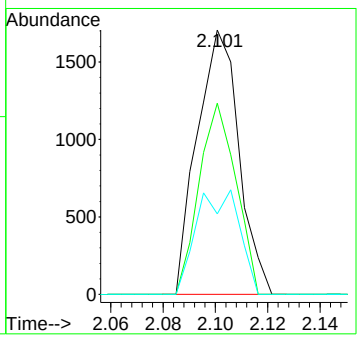


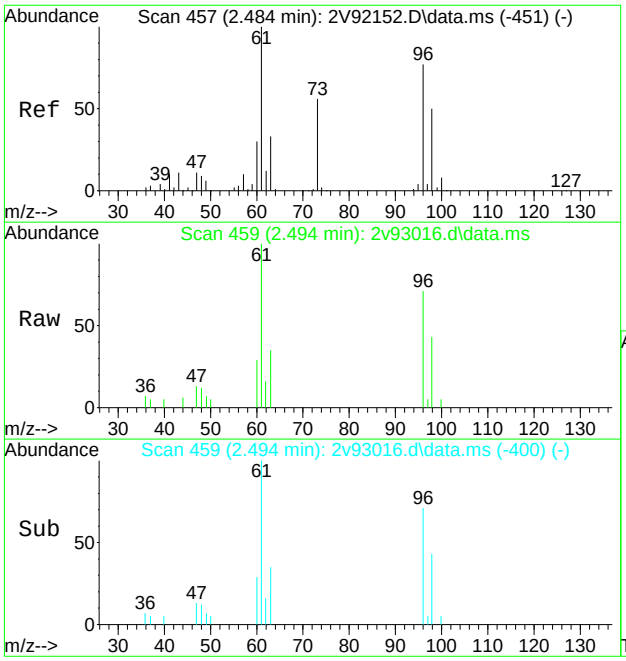




#17
1,1-dichloroethene
Concen: 0.52 ug/L
RT: 2.101 min Scan# 384
Delta R.T. 0.010 min
Lab File: 2v93016.d
Acq: 30 Sep 2022 3:50 am

Tgt Ion: 61 Resp: 1900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 72.3 | 34.7 | 94.7 |
| 63 | 30.5 | 2.3 | 62.3 |

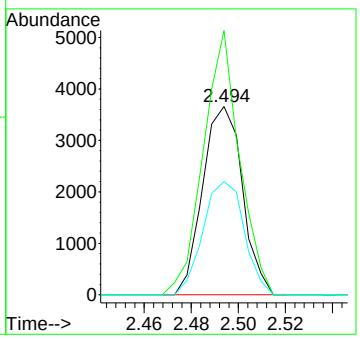


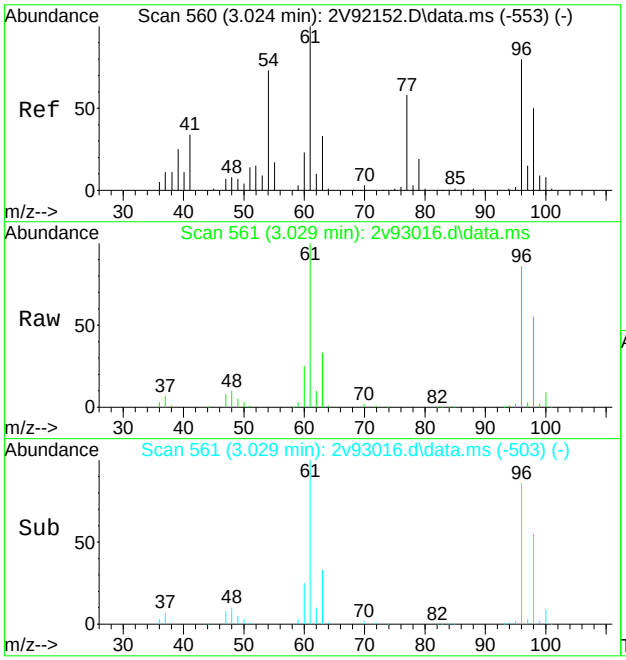



#25
trans-1,2-dichloroethene
Concen: 1.68 ug/L
RT: 2.494 min Scan# 459
Delta R.T. 0.010 min
Lab File: 2v93016.d
Acq: 30 Sep 2022 3:50 am

Tgt Ion: 96 Resp: 4291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 140.3 | 100.1 | 160.1 |
| 98 | 60.1 | 34.6 | 94.6 |

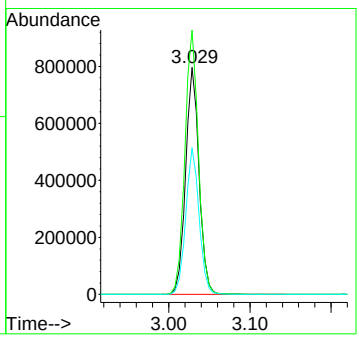


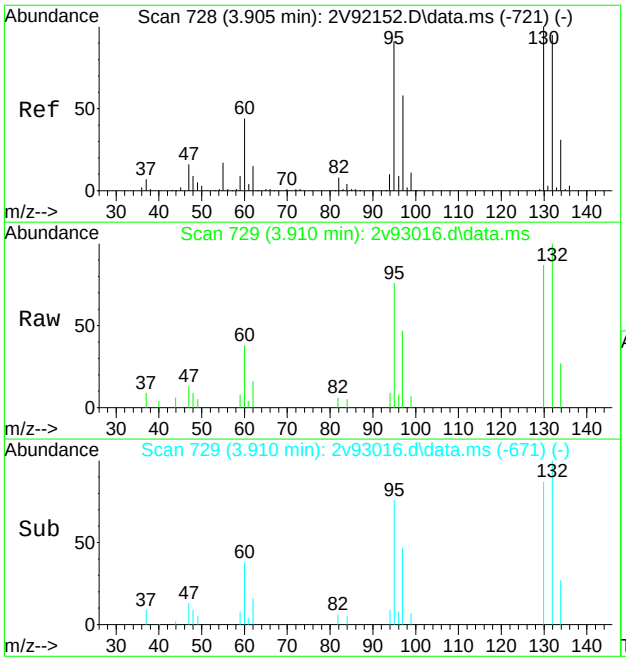




#36
cis-1,2-dichloroethene
Concen: 310.09 ug/L
RT: 3.029 min Scan# 561
Delta R.T. 0.005 min
Lab File: 2v93016.d
Acq: 30 Sep 2022 3:50 am

Tgt Ion: 96 Resp: 917048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 116.4 | 95.8 | 155.8 |
| 98 | 64.6 | 32.6 | 92.6 |

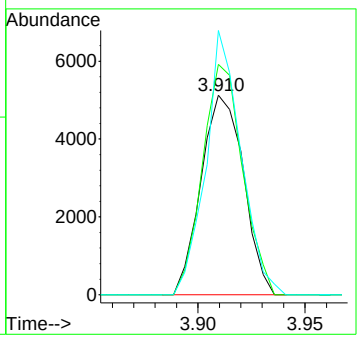





#59
trichloroethene
Concen: 2.40 ug/L
RT: 3.910 min Scan# 729
Delta R.T. 0.005 min
Lab File: 2v93016.d
Acq: 30 Sep 2022 3:50 am

Tgt Ion: 95 Resp: 7080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 115.3 | 80.3 | 140.3 |
| 132 | 132.4 | 75.3 | 135.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93009.d
Acq On : 30 Sep 2022 1:08 am
Operator : KYLEM
Sample : jd52507-14 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 41 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:44:19 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

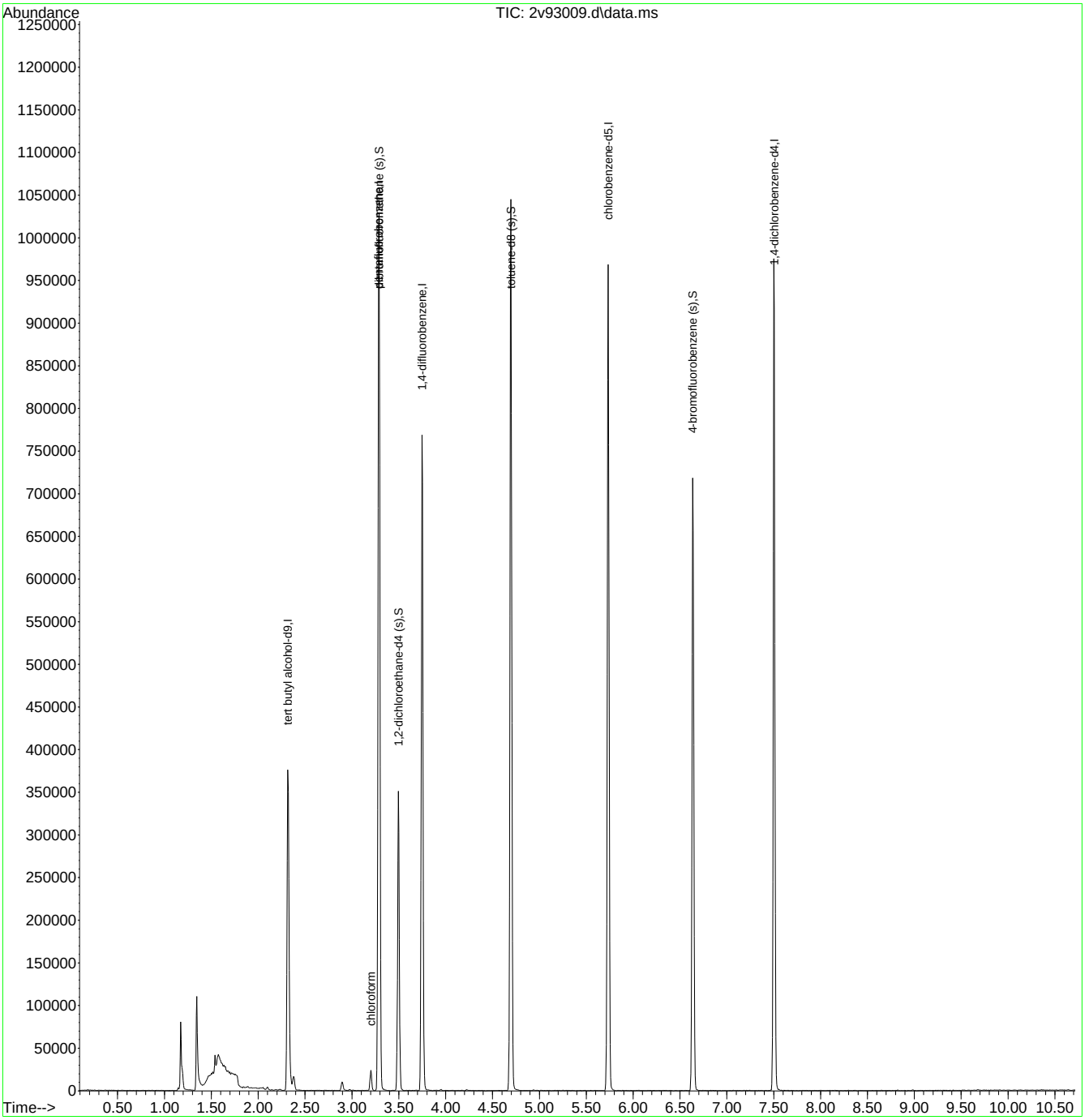
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 286132 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 320942 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 444222 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 413502 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 189012 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 162052 | 50.63 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.26% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 152399 | 48.38 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 96.76% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 516197 | 50.72 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.44% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 157445 | 46.65 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.30% | | | |
| Target Compounds | | | | | | Qvalue |
| 41) chloroform | 3.202 | 83 | 11528 | 2.02 | ug/L | 98 |

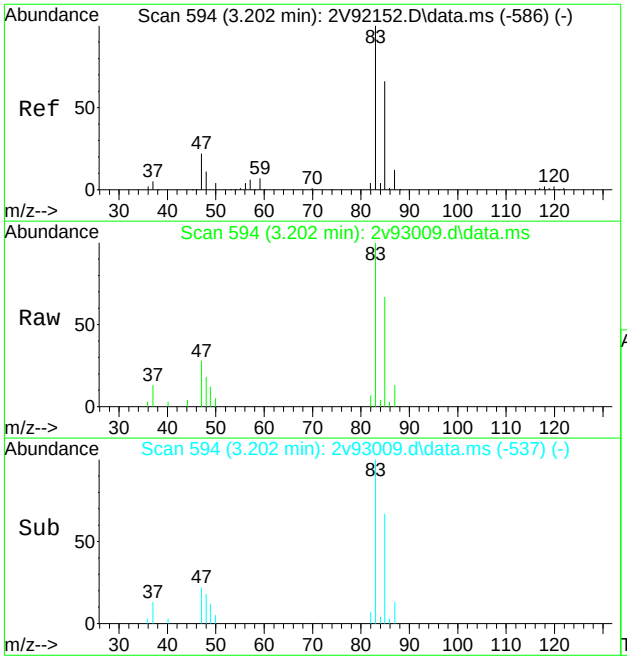
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93009.d
Acq On : 30 Sep 2022 1:08 am
Operator : KYLEM
Sample : jd52507-14 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 41 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:44:19 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

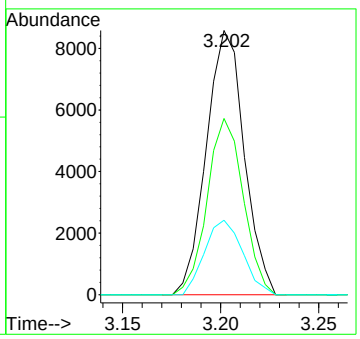





#41
chloroform
Concen: 2.02 ug/L
RT: 3.202 min Scan# 594
Delta R.T. -0.000 min
Lab File: 2v93009.d
Acq: 30 Sep 2022 1:08 am

Tgt Ion: 83 Resp: 11528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.7 | 35.9 | 95.9 |
| 47 | 28.2 | 0.0 | 56.5 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-29-22\v1a9698\
Data File : 1a226450.d
Acq On : 27 Sep 2022 6:48 pm
Operator : nickw
Sample : jd52507-15 Inst : MSDTEST1A
Misc : MS62506, V1A9698,5,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 29 05:29:30 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

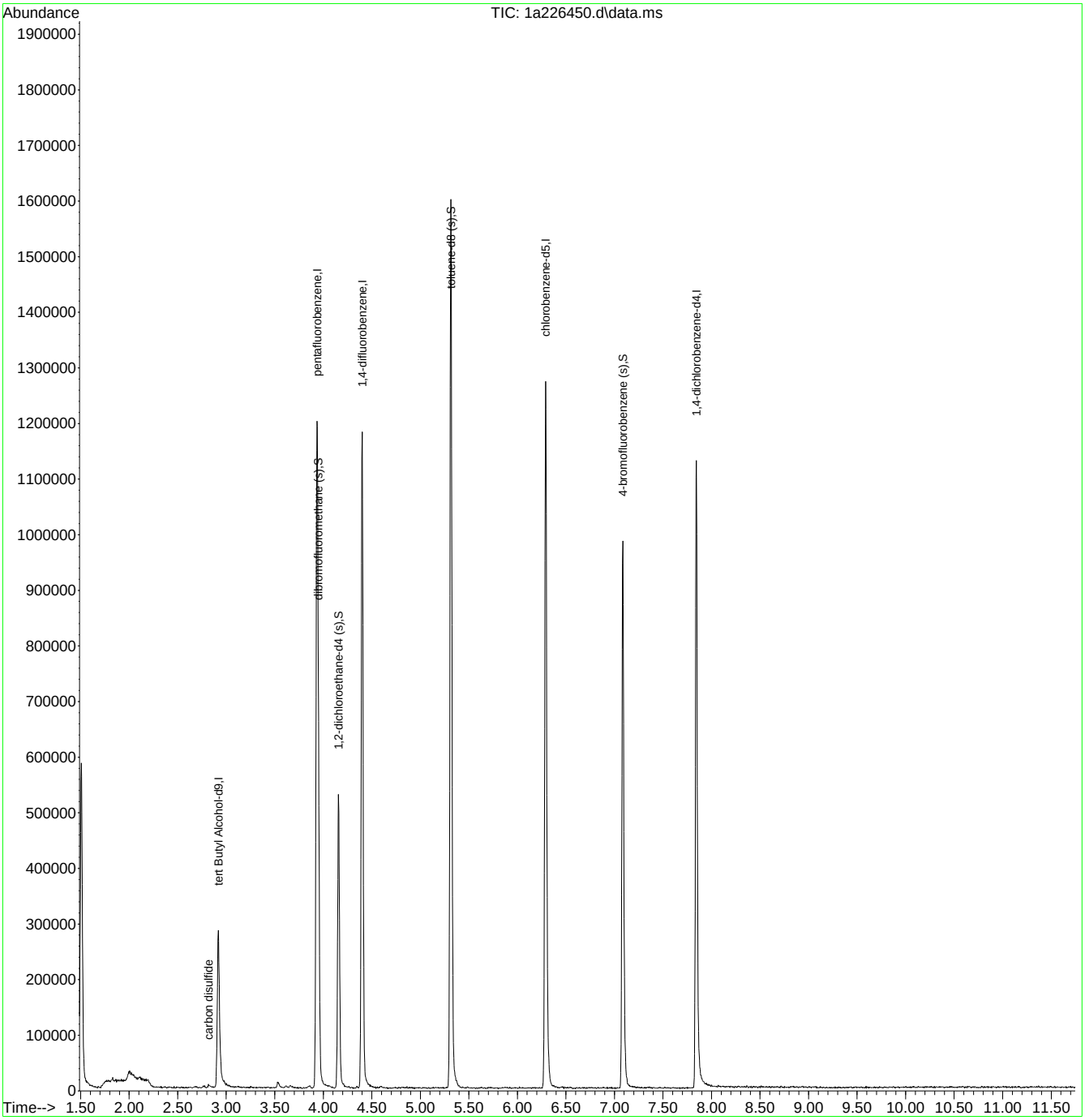
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.918 | 65 | 261109 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.935 | 168 | 500749 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 723474 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 615811 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 245276 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 219027 | 49.63 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.26% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 247324 | 49.37 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.74% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 840069 | 50.71 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.42% | | | |
| 97) 4-bromofluorobenzene (s) | 7.087 | 95 | 252937 | 49.70 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.40% | | | |
| Target Compounds | | | | | | Qvalue |
| 22) carbon disulfide | 2.816 | 76 | 3846 | 0.37 | ug/L | 77 |

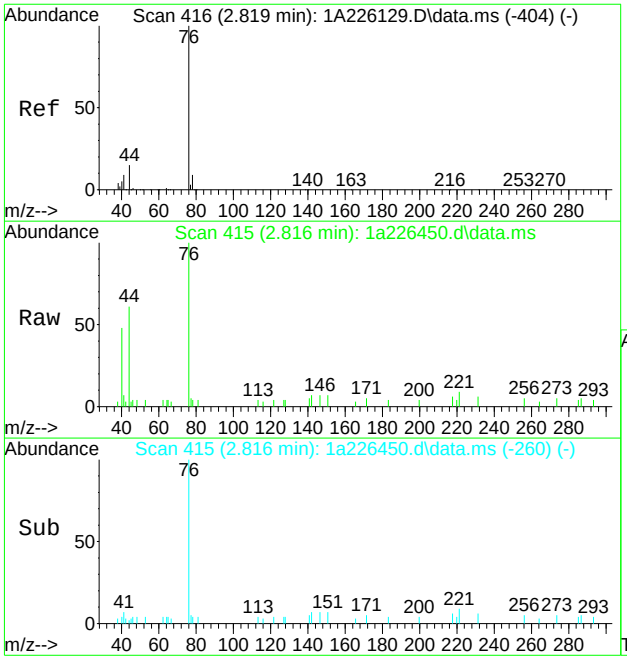
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-29-22\v1a9698\
Data File : 1a226450.d
Acq On : 27 Sep 2022 6:48 pm
Operator : nickw
Sample : jd52507-15 Inst : MSDTEST1A
Misc : MS62506, V1A9698,5,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 29 05:29:30 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

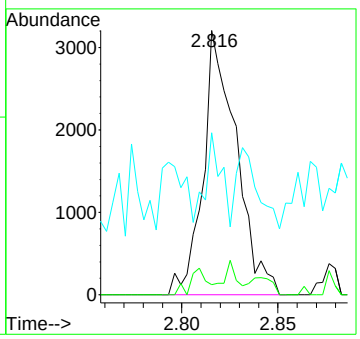





#22
carbon disulfide
Concen: 0.37 ug/L
RT: 2.816 min Scan# 415
Delta R.T. -0.003 min
Lab File: 1a226450.d
Acq: 27 Sep 2022 6:48 pm

Tgt Ion: 76 Resp: 3846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 3.8 | 0.0 | 39.4 |
| 44 | 26.6 | 0.0 | 45.3 |



Manual Integrations APPROVED (compounds with "m" flag)
MoHui Huang
09/29/22 12:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-29-22\v1a9698\
Data File : 1a226451.d
Acq On : 27 Sep 2022 7:12 pm
Operator : nickw
Sample : jd52507-16 Inst : MSDTEST1A
Misc : MS62506, V1A9698,5,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 29 05:28:44 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.915 | 65 | 276705 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.932 | 168 | 496183 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 708608 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 615191 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 244501 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 214973 | 49.16 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.32% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 243271 | 49.58 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.16% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 826078 | 49.92 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.84% | | | |
| 97) 4-bromofluorobenzene (s) | 7.086 | 95 | 248364 | 48.96 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.92% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.869 | 62 | 2936 | 0.48 | ug/L | 83 |
| 11) bromomethane | 2.103 | 96 | 2432 | 0.63 | ug/L # | 70 |
| 18) acetone | 2.668 | 58 | 1971m | 4.52 | ug/L | |
| 22) carbon disulfide | 2.822 | 76 | 3558 | 0.34 | ug/L | 60 |
| 37) cis-1,2-dichloroethene | 3.679 | 96 | 7030 | 1.70 | ug/L | 83 |
| 59) trichloroethene | 4.564 | 95 | 1334 | 0.34 | ug/L | 85 |

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

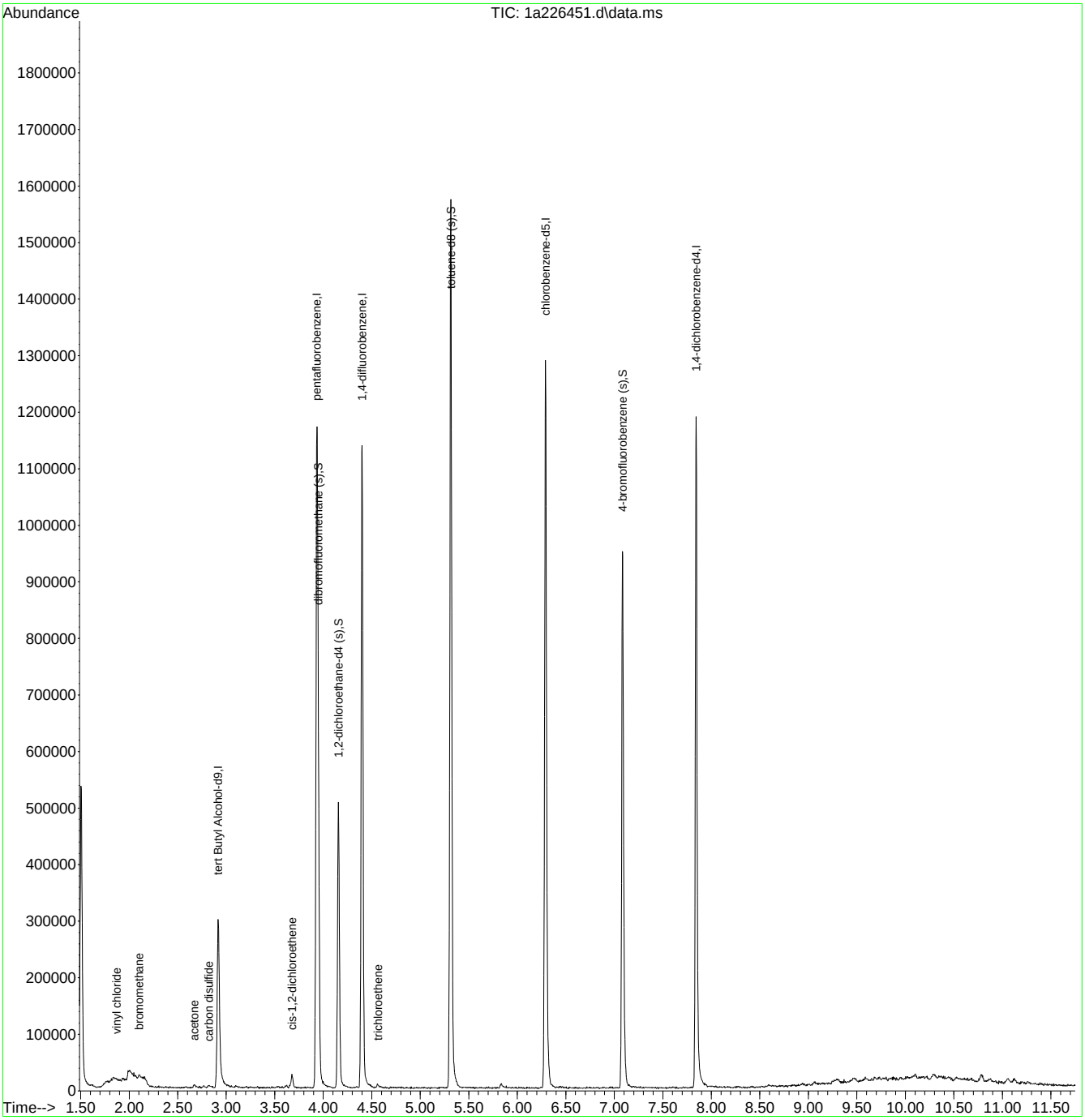
7.1.22

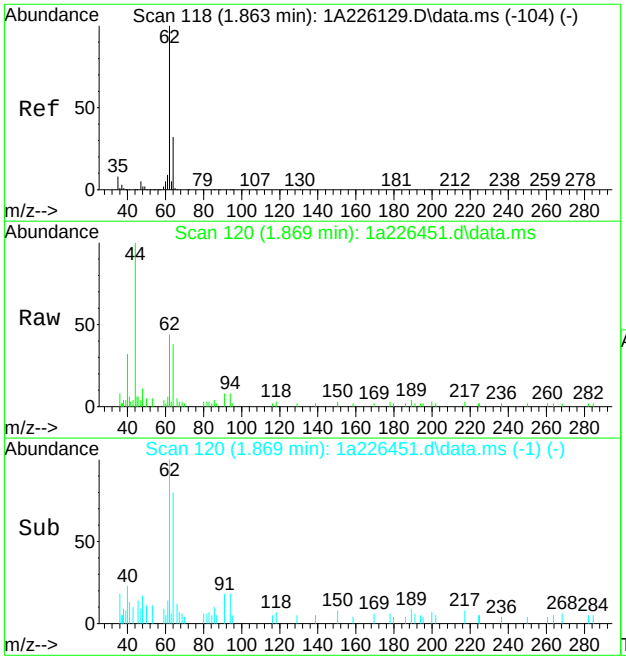
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-29-22\v1a9698\
Data File : 1a226451.d
Acq On : 27 Sep 2022 7:12 pm
Operator : nickw
Sample : jd52507-16 Inst : MSDTEST1A
Misc : MS62506, V1A9698,5,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 29 05:28:44 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

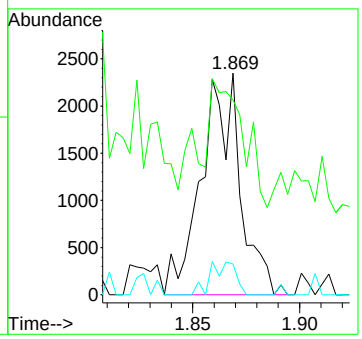


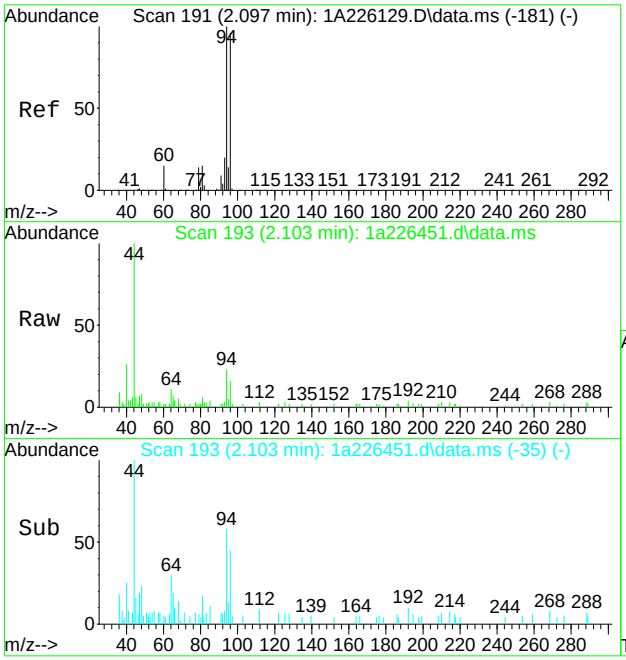



#9
vinyl chloride
Concen: 0.48 ug/L
RT: 1.869 min Scan# 120
Delta R.T. 0.006 min
Lab File: 1a226451.d
Acq: 27 Sep 2022 7:12 pm

Tgt Ion: 62 Resp: 2936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 42.6 | 2.4 | 62.4 |
| 61 | 13.9 | 0.0 | 39.0 |

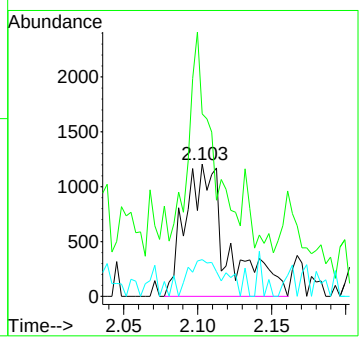


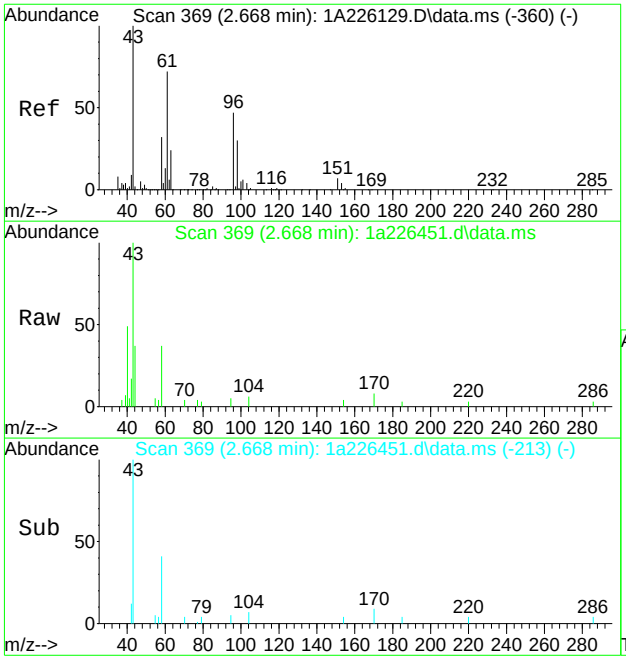




#11
bromomethane
Concen: 0.63 ug/L
RT: 2.103 min Scan# 193
Delta R.T. 0.006 min
Lab File: 1a226451.d
Acq: 27 Sep 2022 7:12 pm

Tgt Ion: 96 Resp: 2432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 94 | 69.5 | 74.0 | 134.0# |
| 95 | 16.6 | 0.0 | 44.8 |

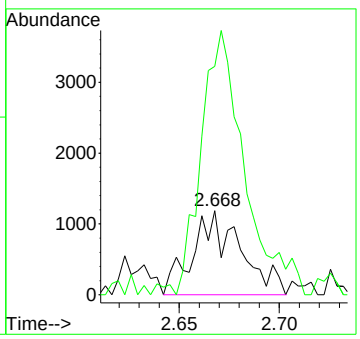


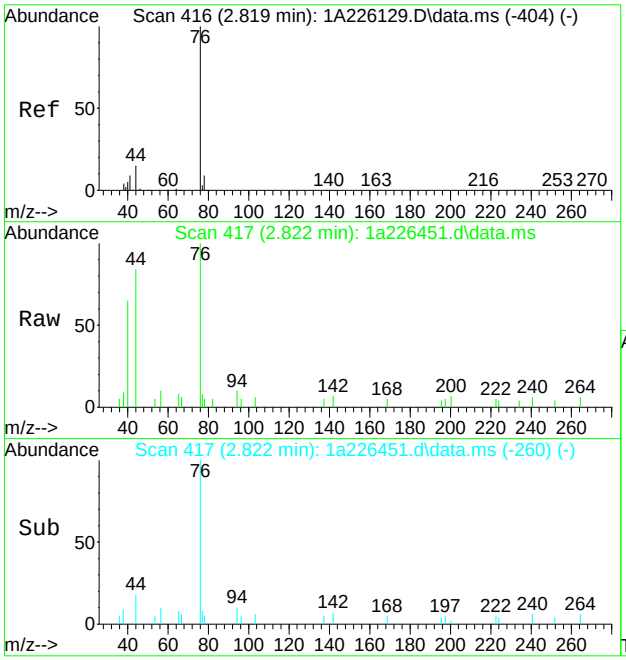



#18
acetone
Concen: 4.52 ug/L m
RT: 2.668 min Scan# 369
Delta R.T. -0.000 min
Lab File: 1a226451.d
Acq: 27 Sep 2022 7:12 pm

Tgt Ion: 58 Resp: 1971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 271.7 | 285.7 | 345.7# |

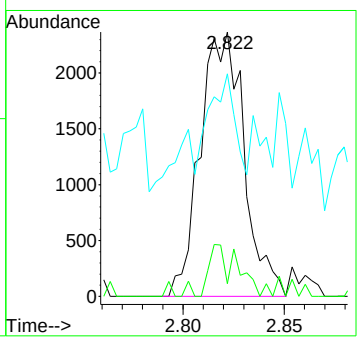


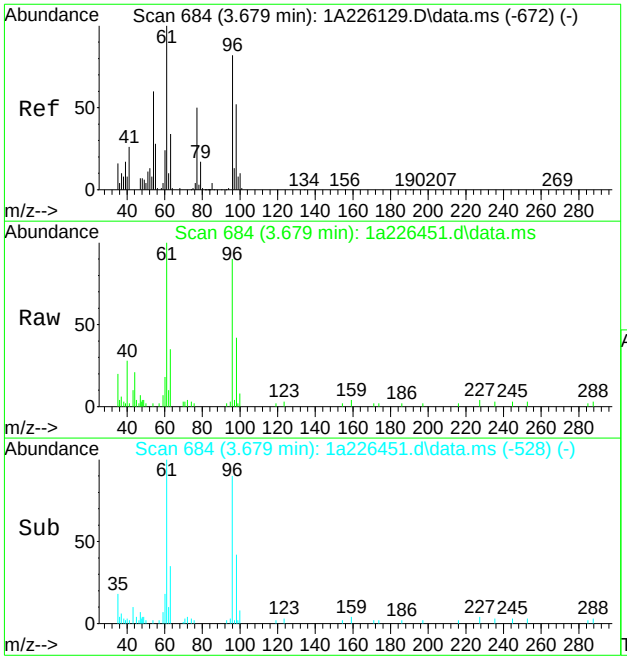




#22
carbon disulfide
Concen: 0.34 ug/L
RT: 2.822 min Scan# 417
Delta R.T. 0.003 min
Lab File: 1a226451.d
Acq: 27 Sep 2022 7:12 pm

Tgt Ion: 76 Resp: 3558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 4.8 | 0.0 | 39.4 |
| 44 | 38.9 | 0.0 | 45.3 |

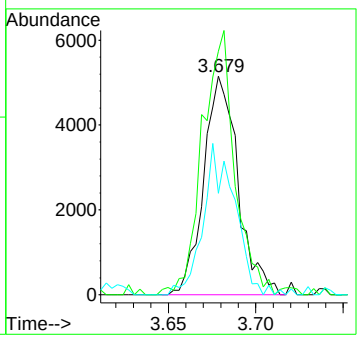


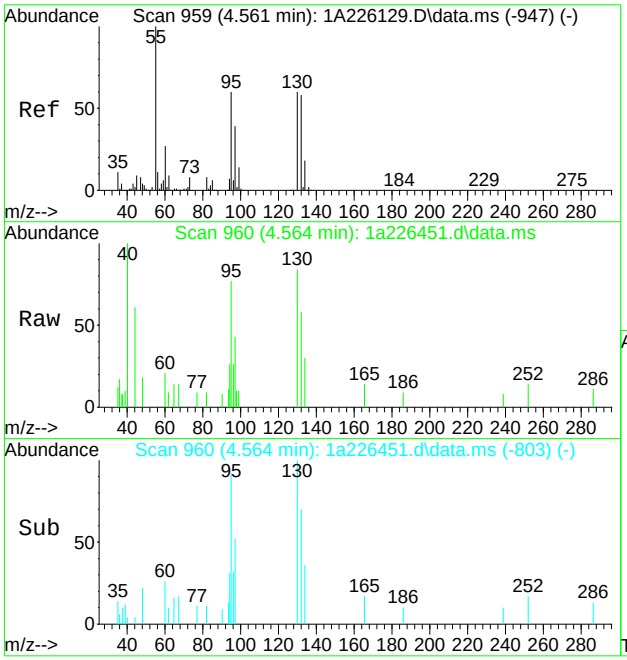



#37
cis-1,2-dichloroethene
Concen: 1.70 ug/L
RT: 3.679 min Scan# 684
Delta R.T. -0.000 min
Lab File: 1a226451.d
Acq: 27 Sep 2022 7:12 pm

Tgt Ion: 96 Resp: 7030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 109.1 | 95.4 | 155.4 |
| 98 | 46.4 | 32.9 | 92.9 |

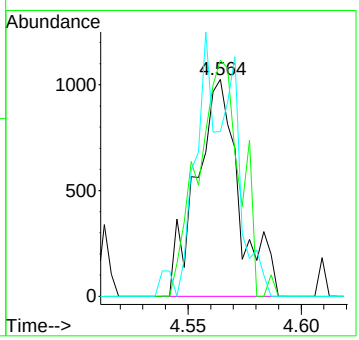



#59
trichloroethene
Concen: 0.34 ug/L
RT: 4.564 min Scan# 960
Delta R.T. 0.003 min
Lab File: 1a226451.d
Acq: 27 Sep 2022 7:12 pm

Tgt Ion: 95 Resp: 1334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 109.0 | 70.0 | 130.0 |
| 132 | 76.0 | 67.1 | 127.1 |



# Manual Integration Approval Summary



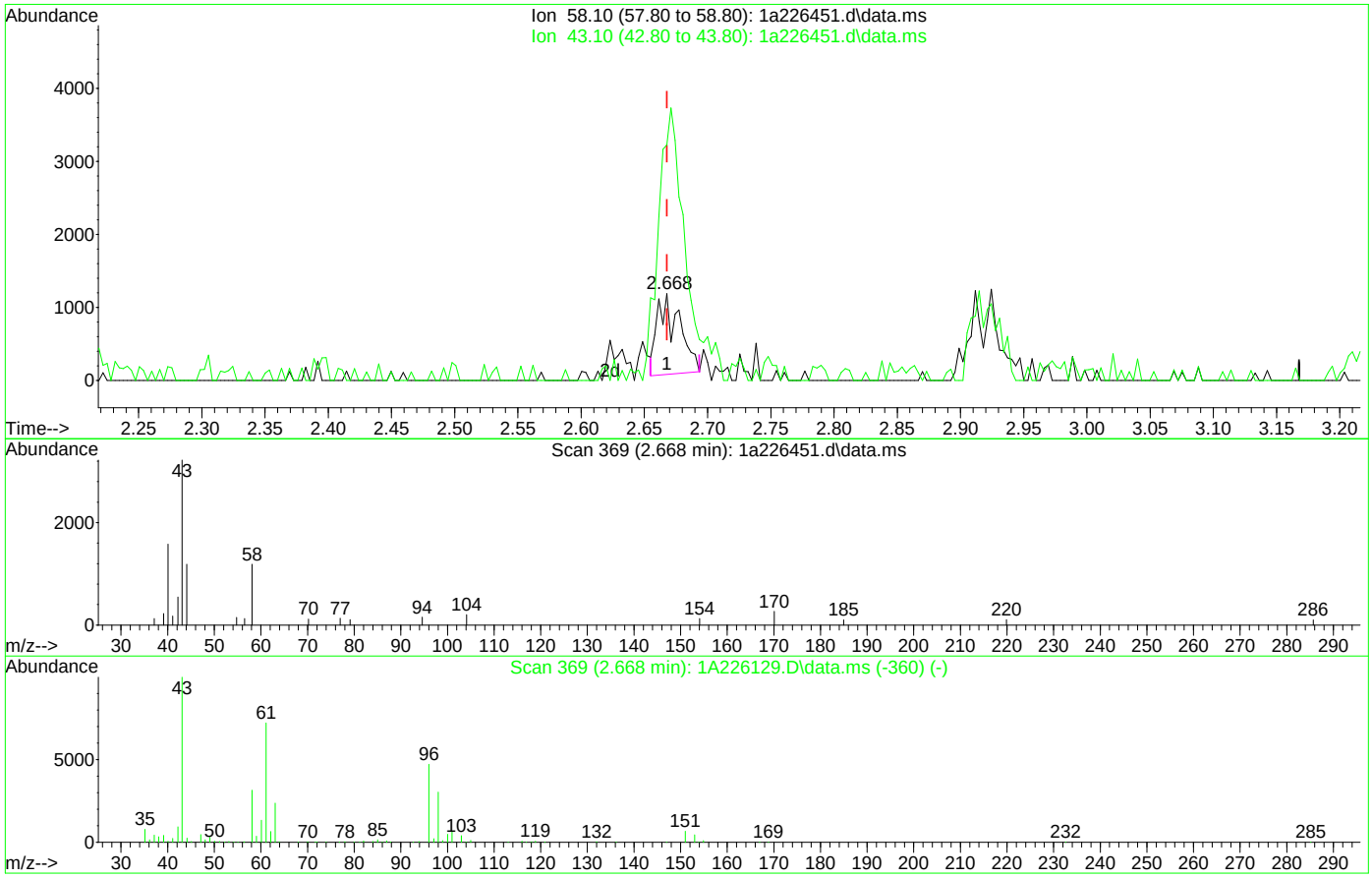
| | | | |
|---|---|---|---|
| **Sample Number:** | JD52507-16 | **Method:** | SW846 8260D |
| **Lab FileID:** | 1A226451.D | **Analyst approved:** | 09/29/22 06:14 Renee Cofreros |
| **Injection Time:** | 09/27/22 19:12 | **Supervisor approved:** | 09/29/22 12:32 MoHui Huang |

| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Acetone | 67-64-1 | | 2.67 | Poor instrument integration |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\renee\September\09-29-22\v1a9698\
Data File : 1a226451.d
Acq On : 27 Sep 2022 7:12 pm
Operator : nickw
Sample : jd52507-16 Inst : MSDTEST1A
Misc : MS62506, V1A9698,5,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 29 05:23:53 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration




TIC: 1a226451.d\data.ms

(18) acetone

2.668min (-0.000) 3.07ug/L

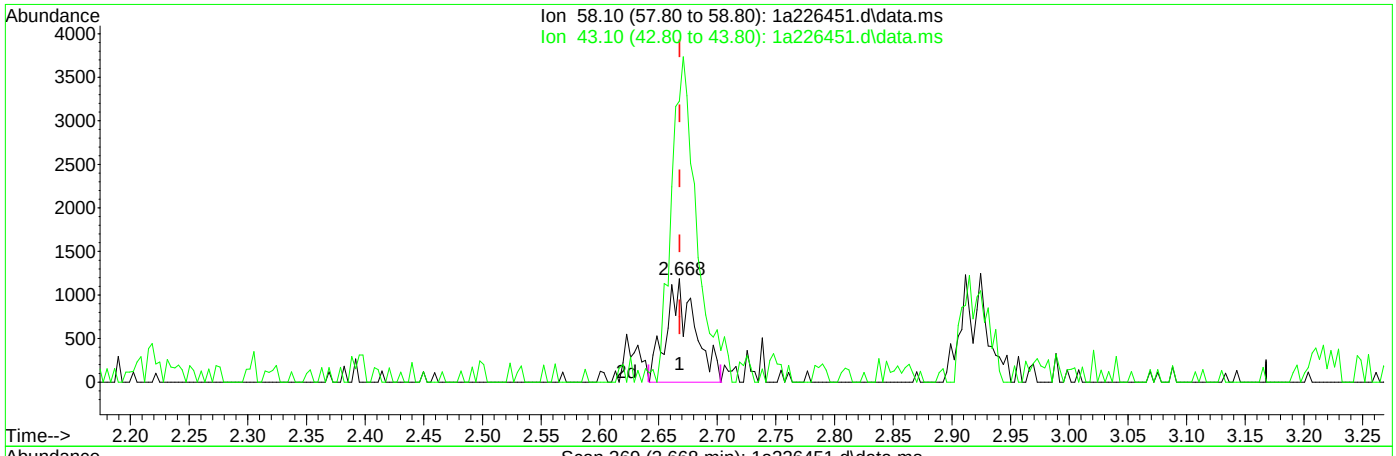
response 1340

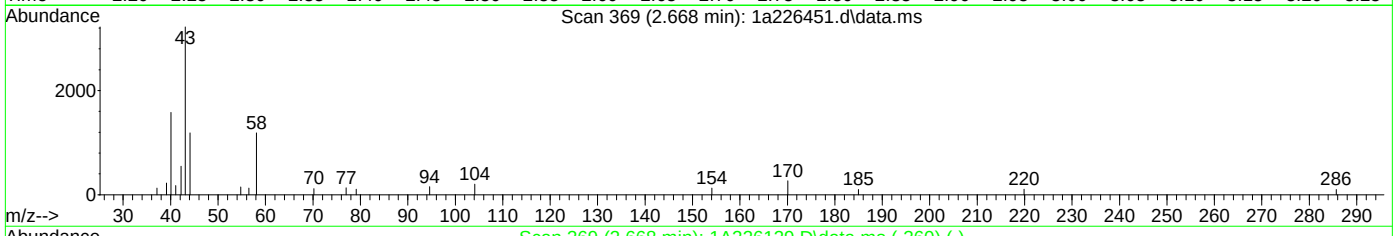
| Ion | Exp% | Act% |
|---|---|---|
| 58.10 | 100 | 100 |
| 43.10 | 315.70 | 249.53# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

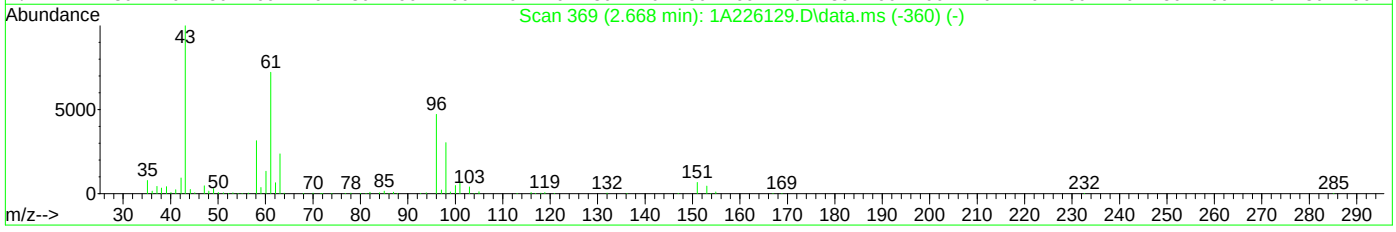
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\renee\September\09-29-22\v1a9698\
Data File : 1a226451.d
Acq On : 27 Sep 2022 7:12 pm
Operator : nickw
Sample : jd52507-16 Inst : MSDTEST1A
Misc : MS62506, V1A9698,5,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 29 05:23:53 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration




TIC: 1a226451.d\data.ms

(18) acetone

2.668min (-0.000) 4.52ug/L m

response 1971

| Ion | Exp% | Act% |
|---|---|---|
| 58.10 | 100 | 100 |
| 43.10 | 315.70 | 271.69# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-29-22\v1a9698\
Data File : 1a226452.d
Acq On : 27 Sep 2022 7:36 pm
Operator : nickw
Sample : jd52507-17 Inst : MSDTEST1A
Misc : MS62506, V1A9698,5,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 29 05:31:07 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

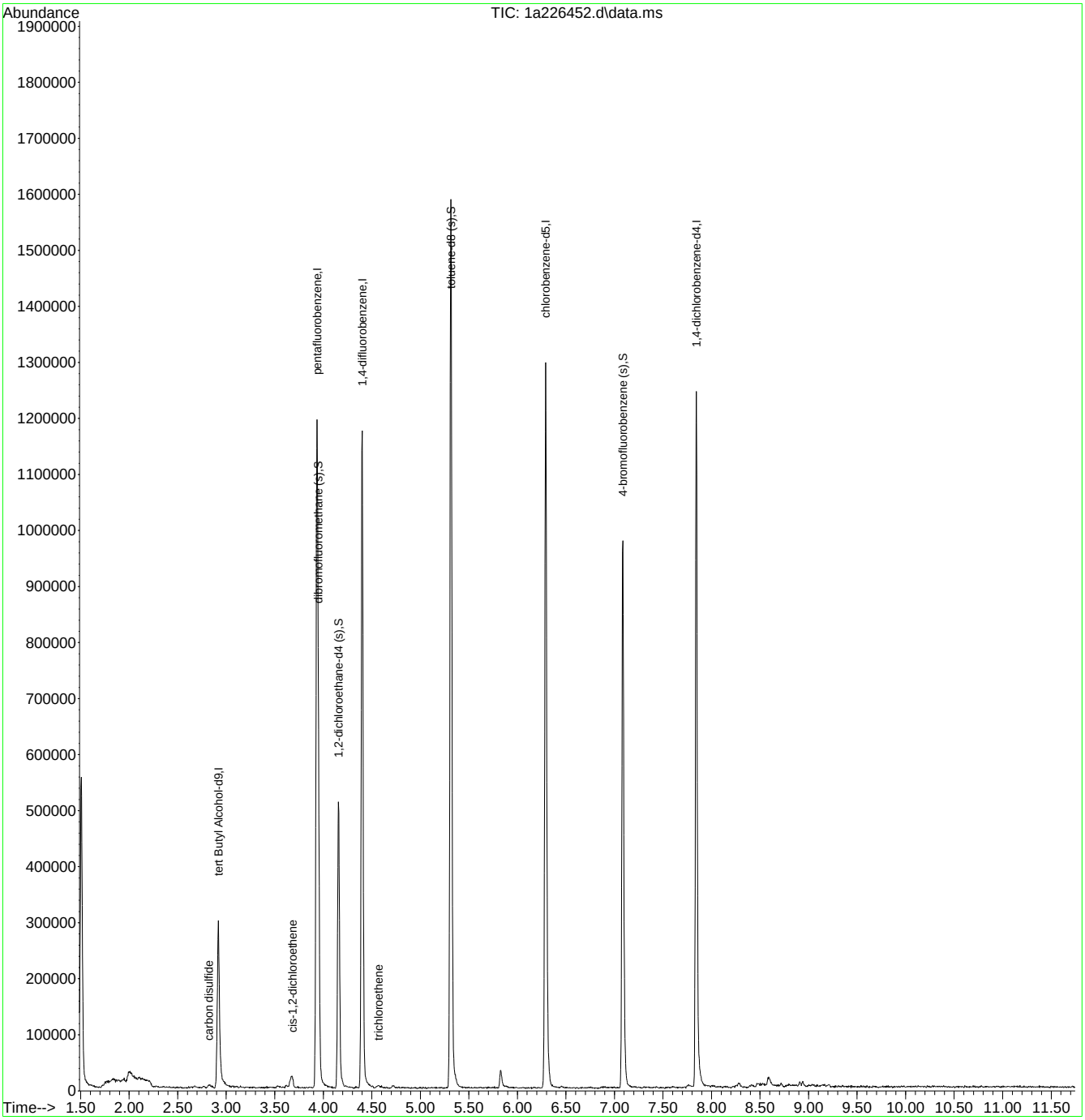
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.918 | 65 | 262948 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.935 | 168 | 496747 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 710029 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 614276 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 252127 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 222243 | 50.77 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.54% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 246586 | 50.15 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.30% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 833427 | 50.44 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.88% | | | |
| 97) 4-bromofluorobenzene (s) | 7.087 | 95 | 252224 | 48.22 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.44% | | | |
| Target Compounds | | | | | | Qvalue |
| 22) carbon disulfide | 2.822 | 76 | 4241 | 0.41 | ug/L | 83 |
| 37) cis-1,2-dichloroethene | 3.682 | 96 | 6270 | 1.51 | ug/L | 85 |
| 59) trichloroethene | 4.568 | 95 | 1066 | 0.27 | ug/L | 88 |

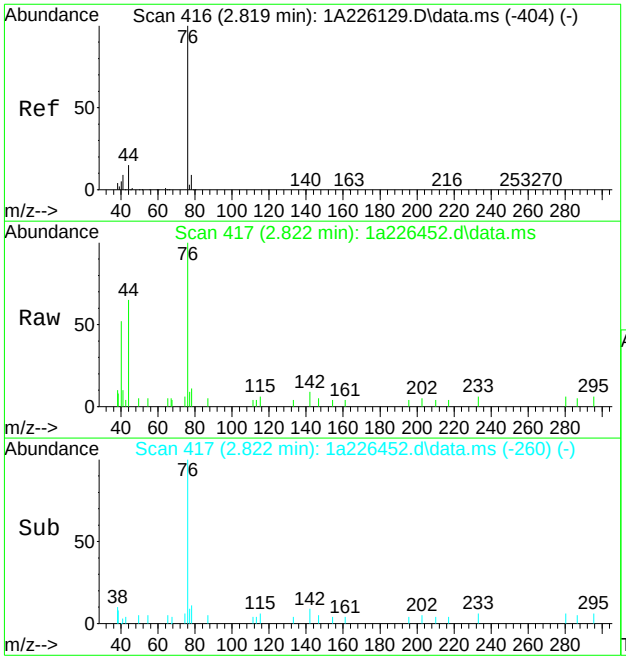
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-29-22\v1a9698\
Data File : 1a226452.d
Acq On : 27 Sep 2022 7:36 pm
Operator : nickw
Sample : jd52507-17 Inst : MSDTEST1A
Misc : MS62506, V1A9698,5,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 29 05:31:07 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

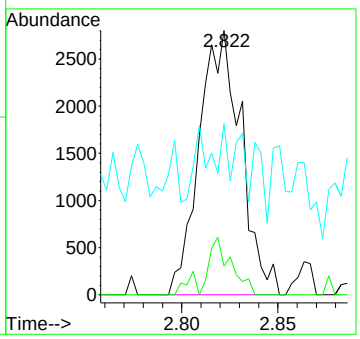


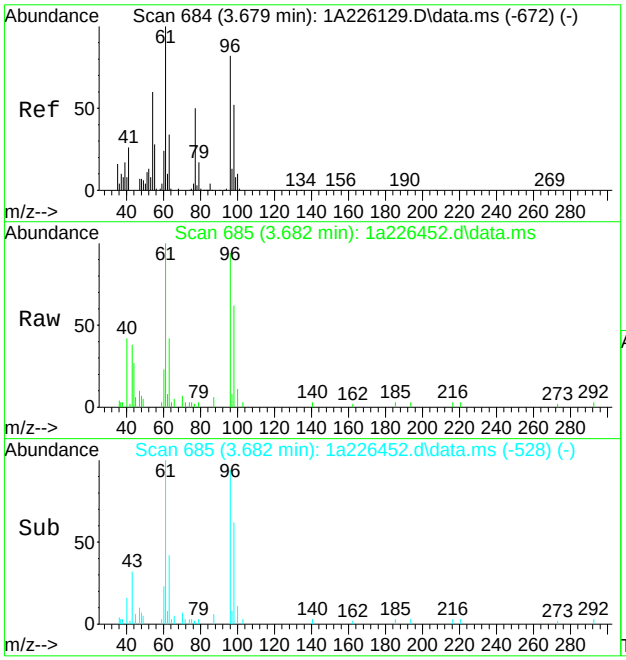



#22
carbon disulfide
Concen: 0.41 ug/L
RT: 2.822 min Scan# 417
Delta R.T. 0.003 min
Lab File: 1a226452.d
Acq: 27 Sep 2022 7:36 pm

Tgt Ion: 76 Resp: 4241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.9 | 0.0 | 39.4 |
| 44 | 25.7 | 0.0 | 45.3 |

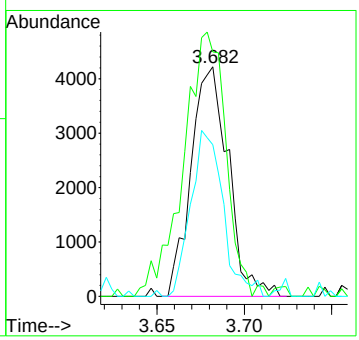


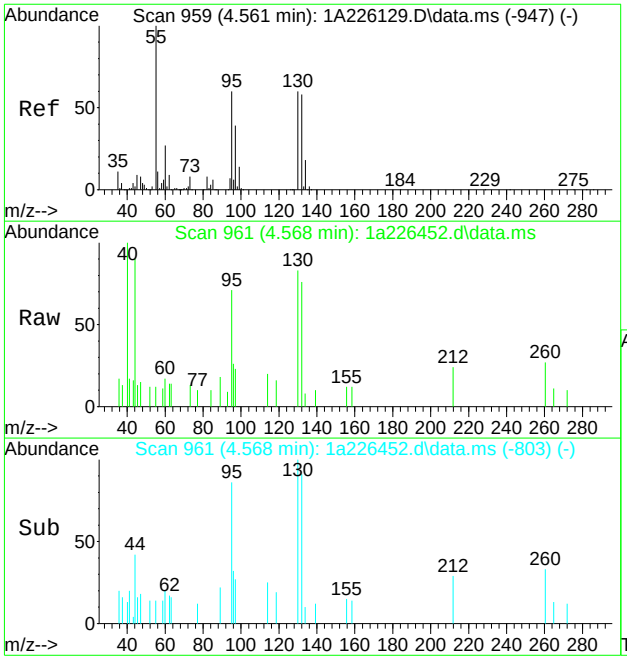




#37
cis-1,2-dichloroethene
Concen: 1.51 ug/L
RT: 3.682 min Scan# 685
Delta R.T. 0.003 min
Lab File: 1a226452.d
Acq: 27 Sep 2022 7:36 pm

Tgt Ion: 96 Resp: 6270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 102.2 | 95.4 | 155.4 |
| 98 | 66.1 | 32.9 | 92.9 |

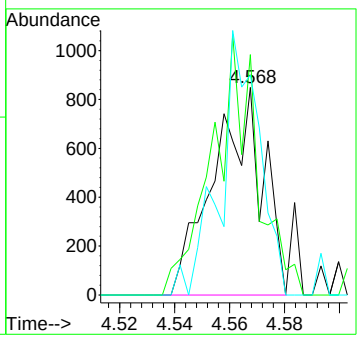





#59
trichloroethene
Concen: 0.27 ug/L
RT: 4.568 min Scan# 961
Delta R.T. 0.007 min
Lab File: 1a226452.d
Acq: 27 Sep 2022 7:36 pm

Tgt Ion: 95 Resp: 1066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 115.8 | 70.0 | 130.0 |
| 132 | 105.9 | 67.1 | 127.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-29-22\v1a9698\
Data File : 1a226453.d
Acq On : 27 Sep 2022 8:00 pm
Operator : nickw
Sample : jd52507-18 Inst : MSDTEST1A
Misc : MS62506, V1A9698,5,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 29 05:35:12 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.912 | 65 | 262469 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.936 | 168 | 468253 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.398 | 114 | 700339 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 600997 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 245936 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 206743 | 50.10 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.20% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 242717 | 50.05 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.10% | | | | |
| 73) toluene-d8 (s) | 5.312 | 98 | 809251 | 50.06 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.12% | | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 249624 | 48.92 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.84% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 9) vinyl chloride | 1.856 | 62 | 9991 | 1.74 | ug/L | | 68 |
| 18) acetone | 2.665 | 58 | 1289 | 3.13 | ug/L | # | 14 |
| 22) carbon disulfide | 2.816 | 76 | 4471 | 0.46 | ug/L | | 92 |
| 26) trans-1,2-dichloroethene | 3.104 | 96 | 1328 | 0.38 | ug/L | # | 38 |
| 37) cis-1,2-dichloroethene | 3.676 | 96 | 635266 | 162.53 | ug/L | | 92 |
| 42) chloroform | 3.855 | 83 | 3716 | 0.52 | ug/L | | 84 |
| 56) benzene | 4.189 | 78 | 53064 | 3.67 | ug/L | | 98 |
| 59) trichloroethene | 4.558 | 95 | 960065 | 249.21 | ug/L | | 97 |

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

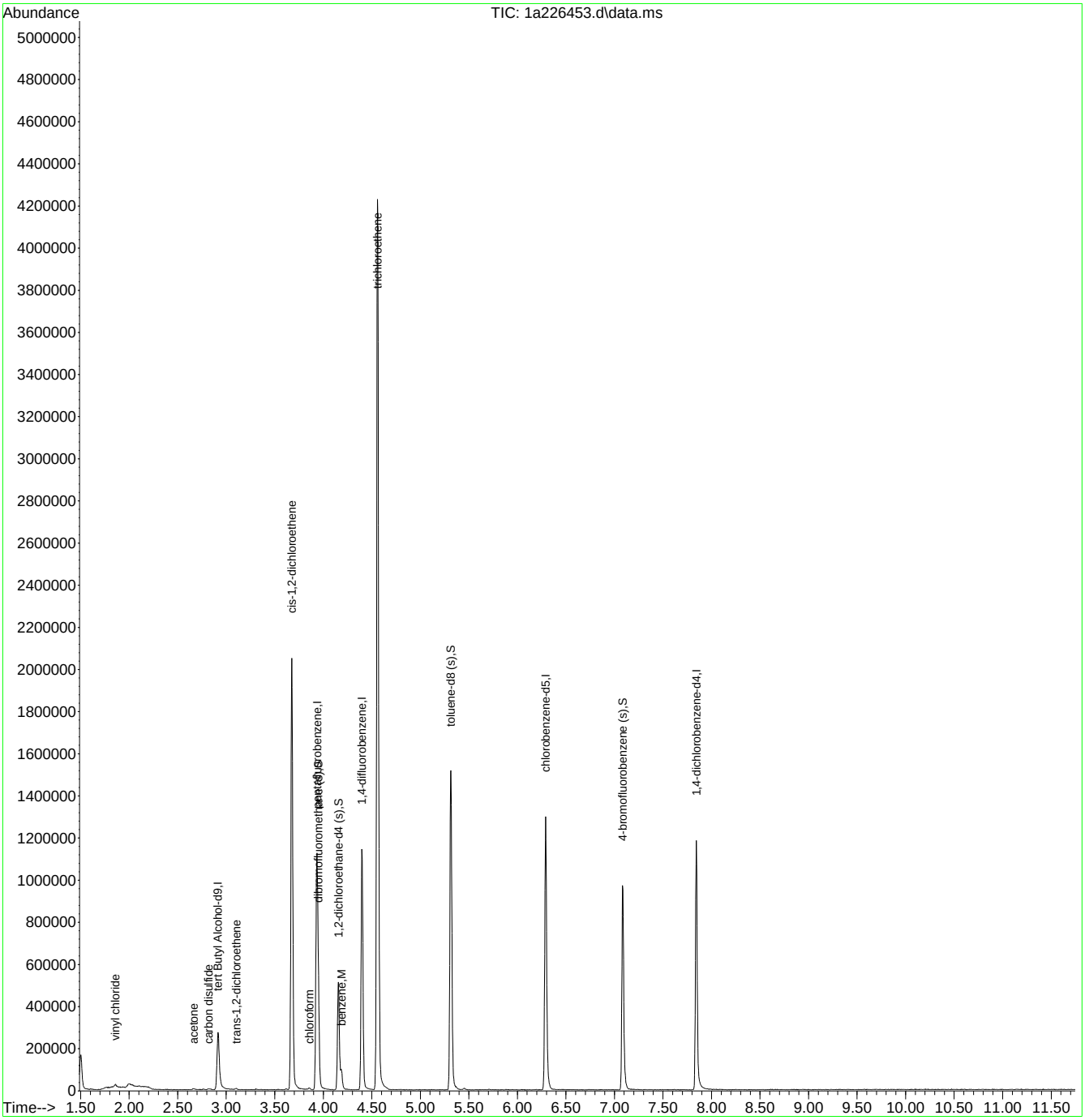
7.1.24

7

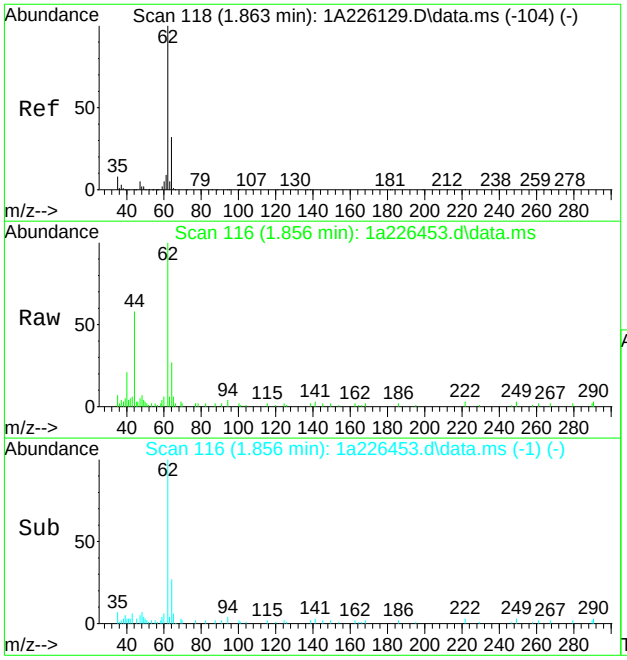
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-29-22\v1a9698\
Data File : 1a226453.d
Acq On : 27 Sep 2022 8:00 pm
Operator : nickw
Sample : jd52507-18 Inst : MSDTEST1A
Misc : MS62506, V1A9698,5,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 29 05:35:12 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration



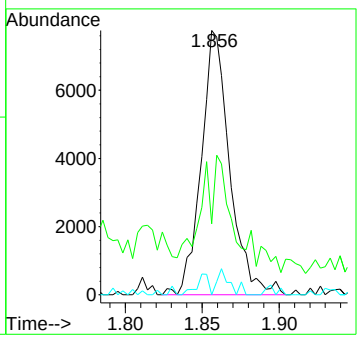

M1A9688.M Thu Oct 06 19:58:19 2022 Page: 2

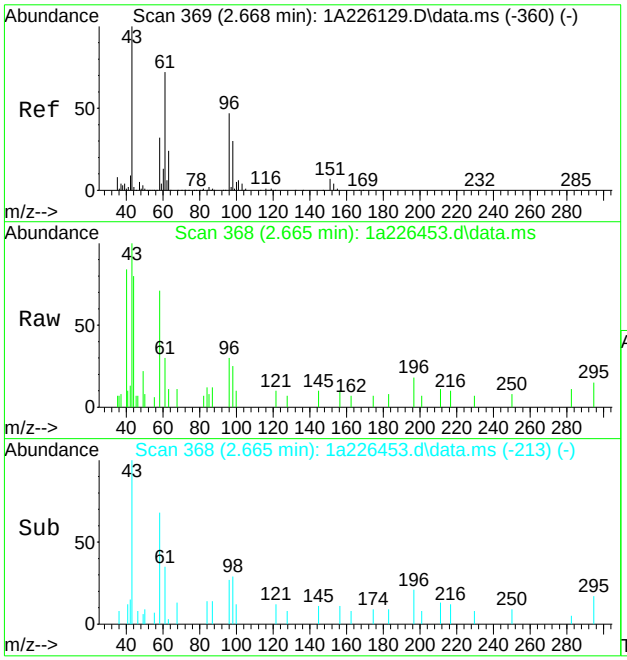



#9
vinyl chloride
Concen: 1.74 ug/L
RT: 1.856 min Scan# 116
Delta R.T. -0.007 min
Lab File: 1a226453.d
Acq: 27 Sep 2022 8:00 pm

Tgt Ion: 62 Resp: 9991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 13.4 | 2.4 | 62.4 |
| 61 | 0.0 | 0.0 | 39.0 |

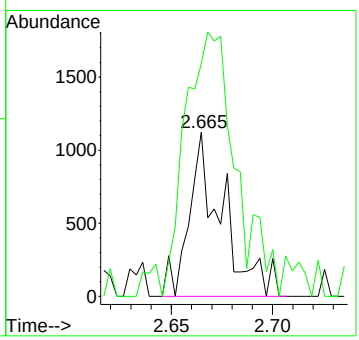


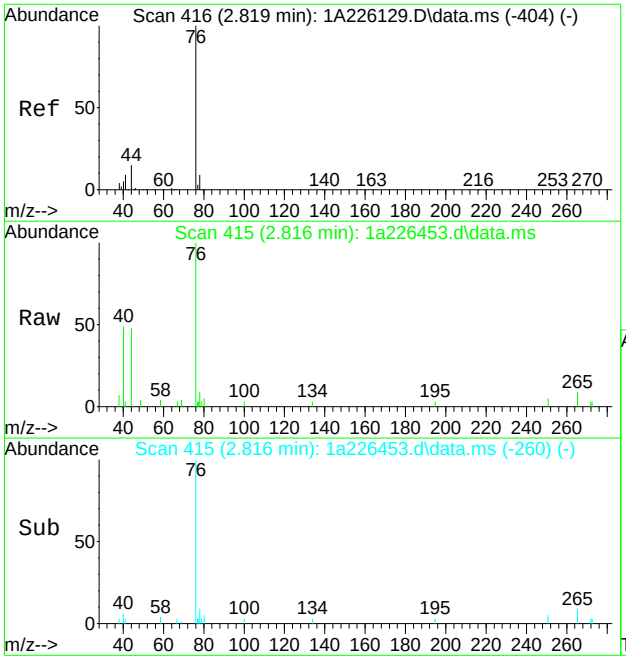




#18
acetone
Concen: 3.13 ug/L
RT: 2.665 min Scan# 368
Delta R.T. -0.003 min
Lab File: 1a226453.d
Acq: 27 Sep 2022 8:00 pm

Tgt Ion: 58 Resp: 1289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 141.7 | 285.7 | 345.7# |

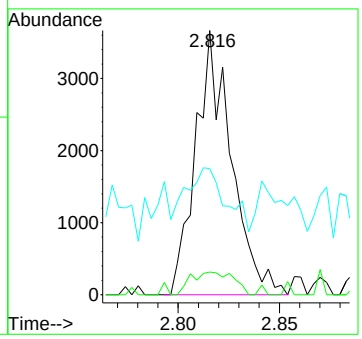


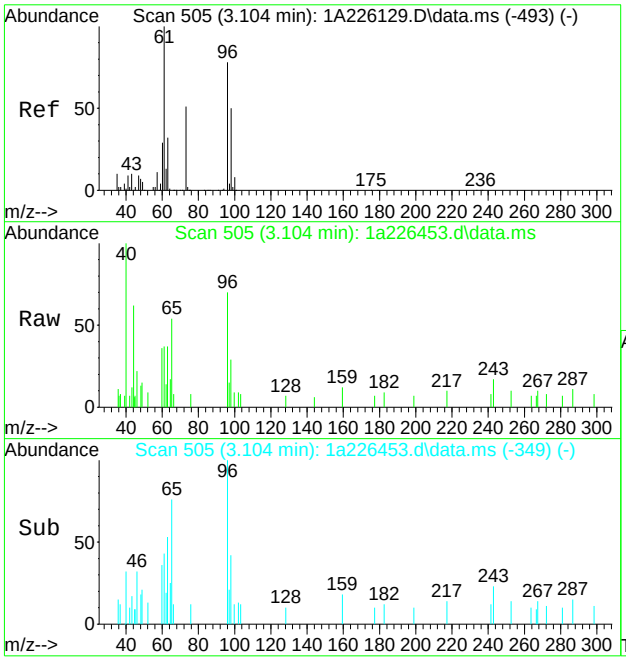



#22
carbon disulfide
Concen: 0.46 ug/L
RT: 2.816 min Scan# 415
Delta R.T. -0.003 min
Lab File: 1a226453.d
Acq: 27 Sep 2022 8:00 pm

Tgt Ion: 76 Resp: 4471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 3.9 | 0.0 | 39.4 |
| 44 | 14.0 | 0.0 | 45.3 |

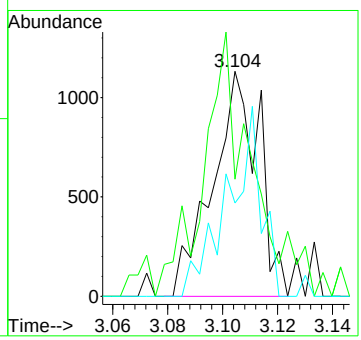


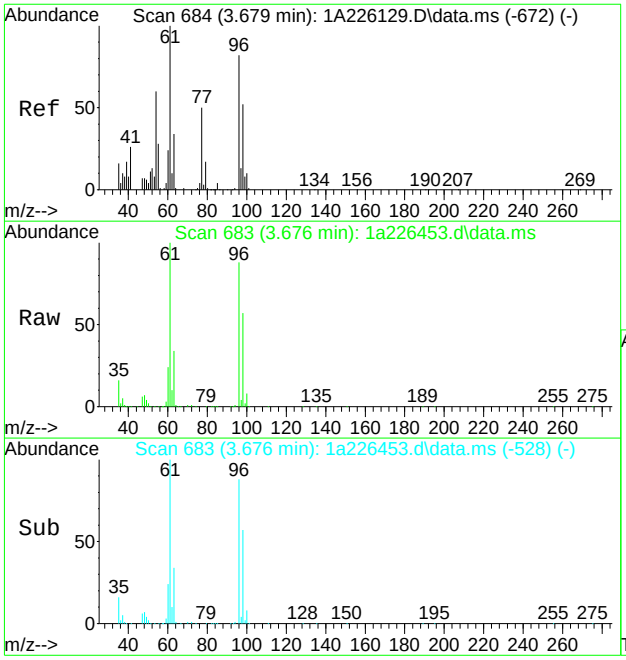




#26
trans-1,2-dichloroethene
Concen: 0.38 ug/L
RT: 3.104 min Scan# 505
Delta R.T. 0.000 min
Lab File: 1a226453.d
Acq: 27 Sep 2022 8:00 pm

Tgt Ion: 96 Resp: 1328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 37.9 | 98.1 | 158.1# |
| 98 | 41.5 | 33.9 | 93.9 |

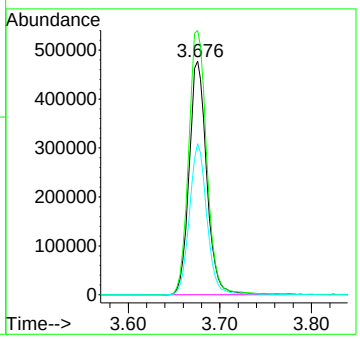


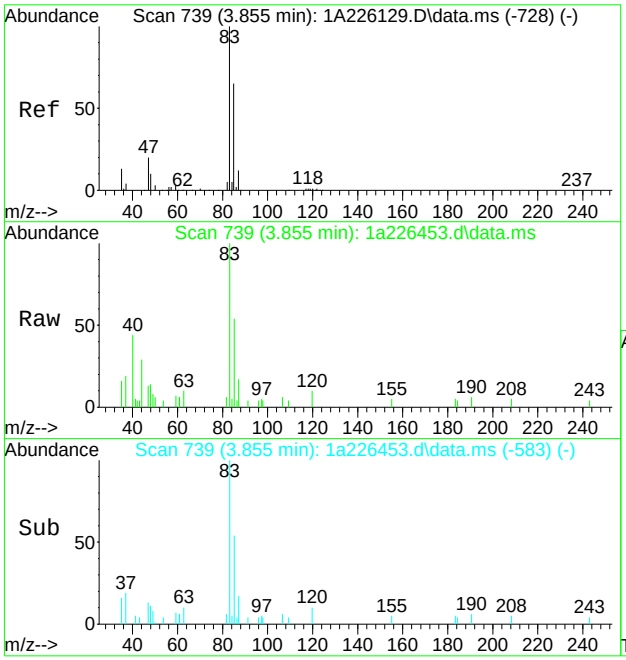



#37
cis-1,2-dichloroethene
Concen: 162.53 ug/L
RT: 3.676 min Scan# 683
Delta R.T. -0.003 min
Lab File: 1a226453.d
Acq: 27 Sep 2022 8:00 pm

Tgt Ion: 96 Resp: 635266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 113.2 | 95.4 | 155.4 |
| 98 | 64.6 | 32.9 | 92.9 |

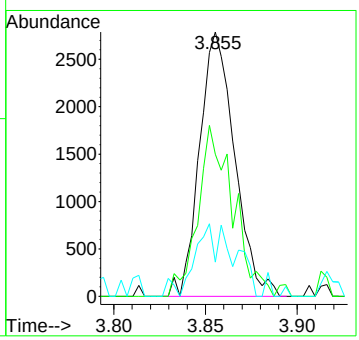


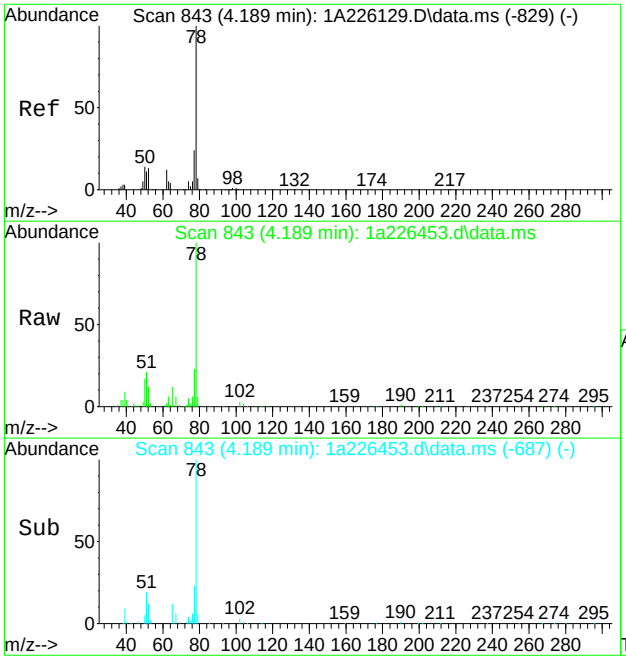




#42
chloroform
Concen: 0.52 ug/L
RT: 3.855 min Scan# 739
Delta R.T. 0.000 min
Lab File: 1a226453.d
Acq: 27 Sep 2022 8:00 pm

Tgt Ion: 83 Resp: 3716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 53.7 | 34.8 | 94.8 |
| 47 | 13.0 | 0.0 | 52.5 |

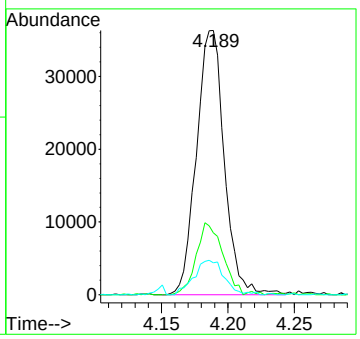


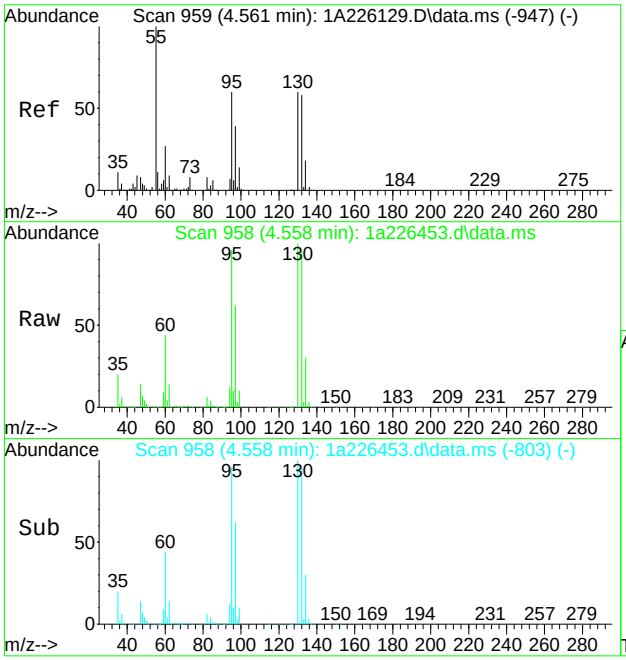



#56
benzene
Concen: 3.67 ug/L
RT: 4.189 min Scan# 843
Delta R.T. 0.000 min
Lab File: 1a226453.d
Acq: 27 Sep 2022 8:00 pm

Tgt Ion: 78 Resp: 53064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 0.0 | 54.1 |
| 52 | 12.1 | 0.0 | 43.5 |

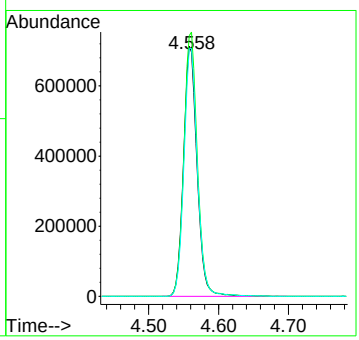



#59
trichloroethene
Concen: 249.21 ug/L
RT: 4.558 min Scan# 958
Delta R.T. -0.003 min
Lab File: 1a226453.d
Acq: 27 Sep 2022 8:00 pm

Tgt Ion: 95 Resp: 960065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 104.1 | 70.0 | 130.0 |
| 132 | 99.0 | 67.1 | 127.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200585.d
Acq On : 29 Sep 2022 12:06 pm
Operator : taylors
Sample : jd52507-18 Inst : ACC-VOA-MSX
Misc : MS62506,V1X8637,5,,,,10
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:45:16 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

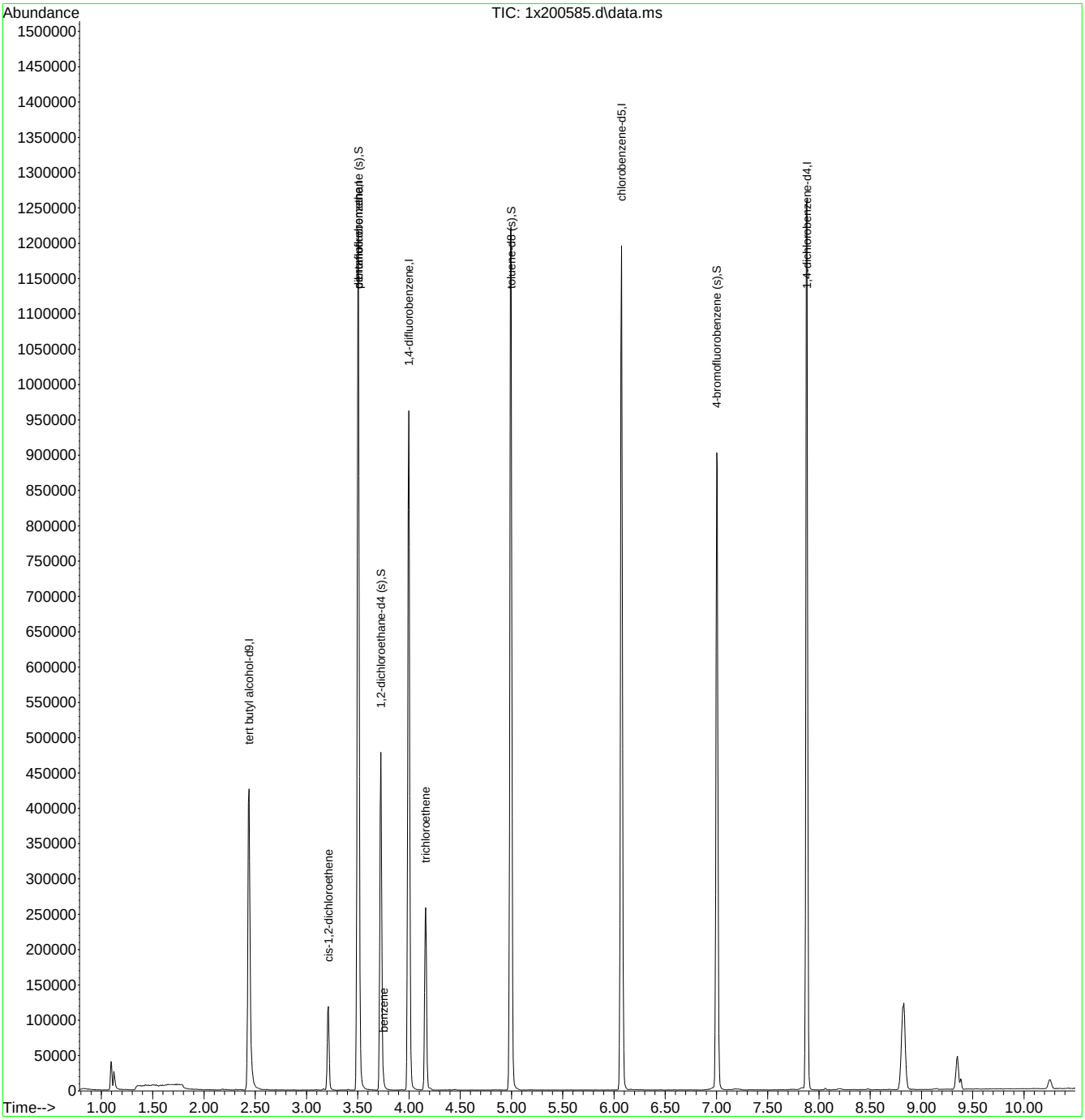
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.439 | 65 | 347512 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.507 | 168 | 407891 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 3.998 | 114 | 569573 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.074 | 117 | 522911 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 259572 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.507 | 113 | 185635 | 48.24 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.48% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.726 | 65 | 213380 | 49.01 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.02% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 623502 | 49.85 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.70% | | | |
| 98) 4-bromofluorobenzene (s) | 7.003 | 95 | 226265 | 50.21 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.42% | | | |
| Target Compounds | | | | | | Qvalue |
| 36) cis-1,2-dichloroethene | 3.213 | 96 | 34881 | 13.11 | ug/L | 88 |
| 57) benzene | 3.752 | 78 | 3983 | 0.42 | ug/L | 97 |
| 61) trichloroethene | 4.163 | 130 | 65105 | 21.88 | ug/L | 98 |

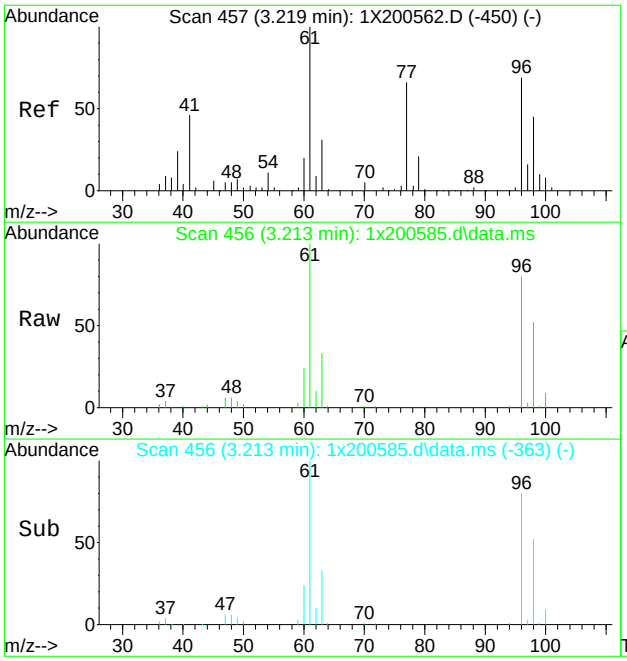
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200585.d
Acq On : 29 Sep 2022 12:06 pm
Operator : taylors
Sample : jd52507-18 Inst : ACC-VOA-MSX
Misc : MS62506,V1X8637,5,,,,10
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:45:16 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

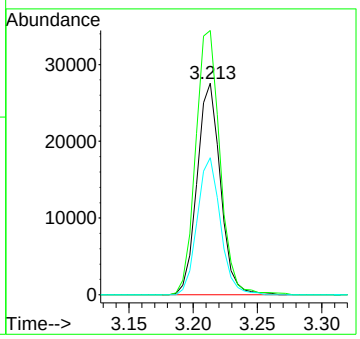


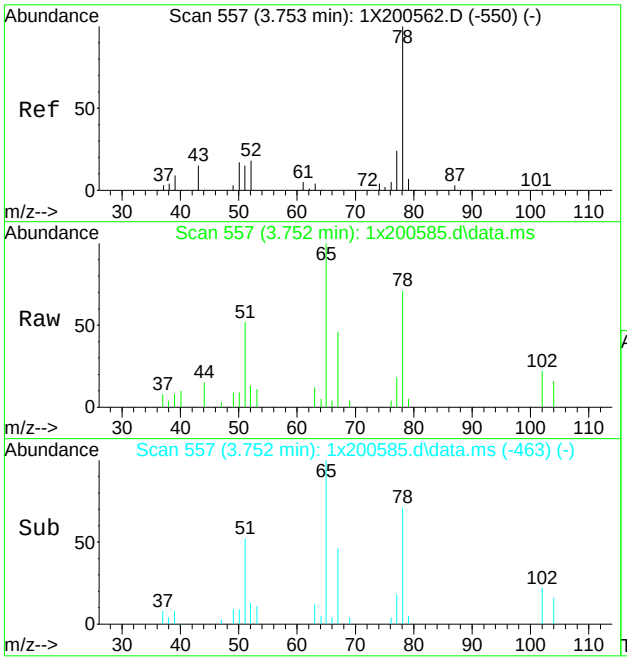



#36
cis-1,2-dichloroethene
Concen: 13.11 ug/L
RT: 3.213 min Scan# 456
Delta R.T. -0.005 min
Lab File: 1x200585.d
Acq: 29 Sep 2022 12:06 pm

Tgt Ion: 96 Resp: 34881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 125.0 | 115.4 | 175.4 |
| 98 | 64.8 | 36.1 | 96.1 |

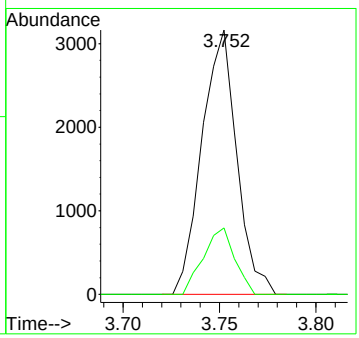


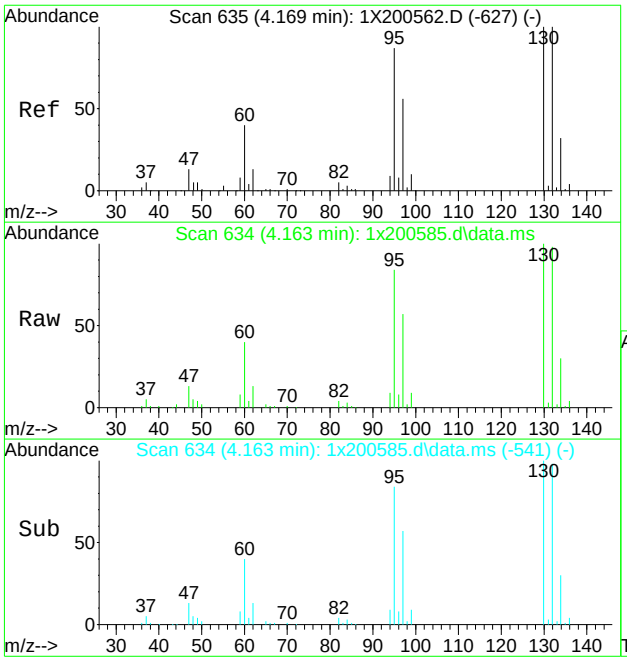




#57
benzene
Concen: 0.42 ug/L
RT: 3.752 min Scan# 557
Delta R.T. -0.000 min
Lab File: 1x200585.d
Acq: 29 Sep 2022 12:06 pm

Tgt Ion: 78 Resp: 3983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.2 | 0.0 | 53.7 |

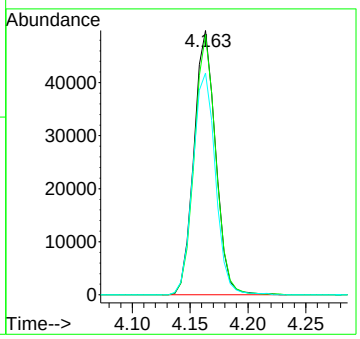





#61
trichloroethene
Concen: 21.88 ug/L
RT: 4.163 min Scan# 634
Delta R.T. -0.005 min
Lab File: 1x200585.d
Acq: 29 Sep 2022 12:06 pm

Tgt Ion:130 Resp: 65105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 98.4 | 69.7 | 129.7 |
| 95 | 83.9 | 57.1 | 117.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200599.d
Acq On : 29 Sep 2022 5:32 pm
Operator : taylors
Sample : jd52507-19 Inst : ACC-VOA-MSX
Misc : MS62506,V1X8637,5,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 07:06:47 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

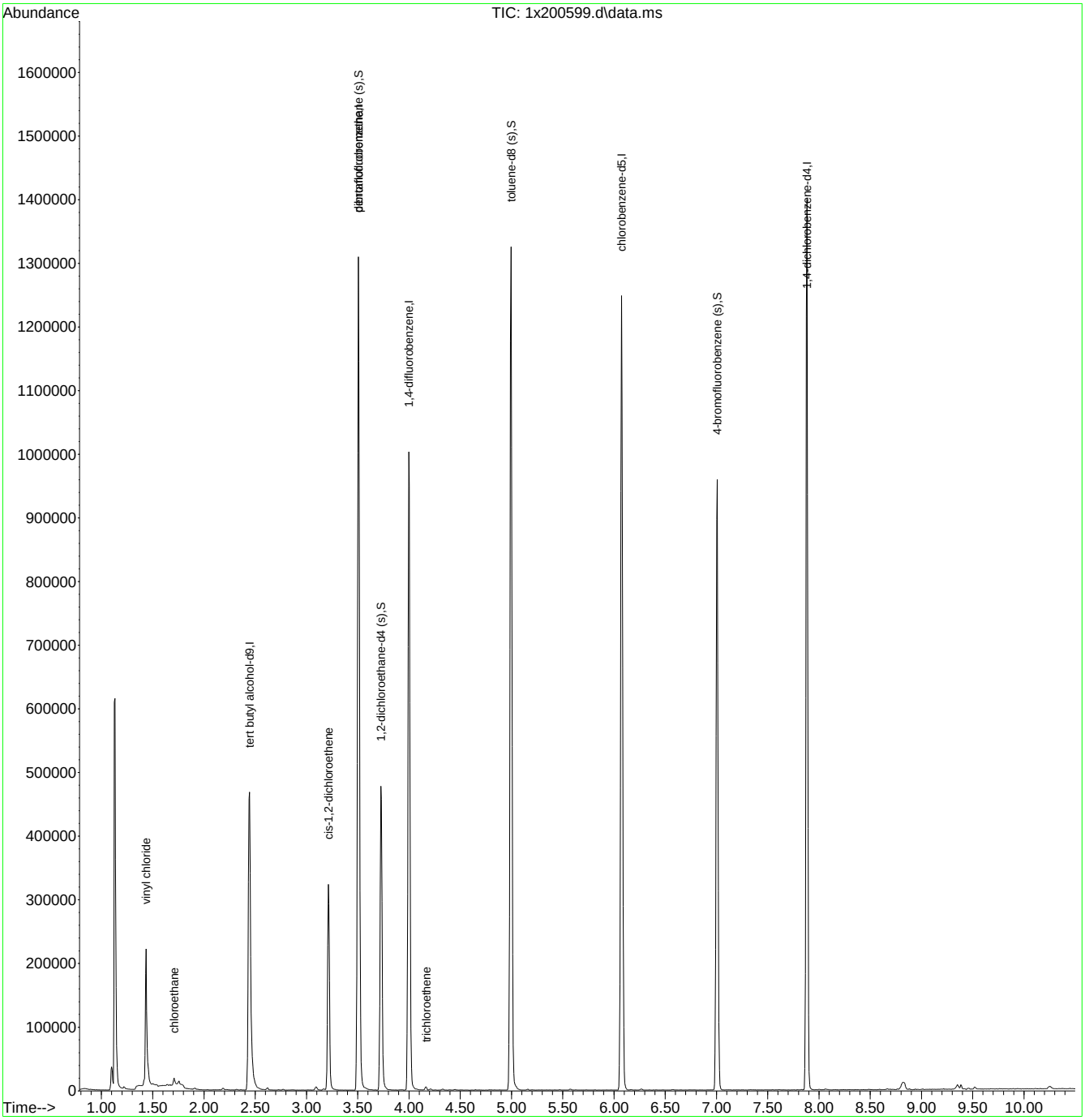
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.445 | 65 | 395564 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.507 | 168 | 428853 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 3.998 | 114 | 599338 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.074 | 117 | 549629 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 269583 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.507 | 113 | 194049 | 47.97 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.94% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.726 | 65 | 224171 | 48.93 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 97.86% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 652540 | 49.63 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.26% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 238153 | 50.88 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.76% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.436 | 62 | 133965 | 35.40 | ug/L | 99 |
| 11) chloroethane | 1.708 | 64 | 6093 | 3.64 | ug/L | 95 |
| 36) cis-1,2-dichloroethene | 3.213 | 96 | 93428 | 33.39 | ug/L | 92 |
| 61) trichloroethene | 4.169 | 130 | 1337 | 0.43 | ug/L | 93 |

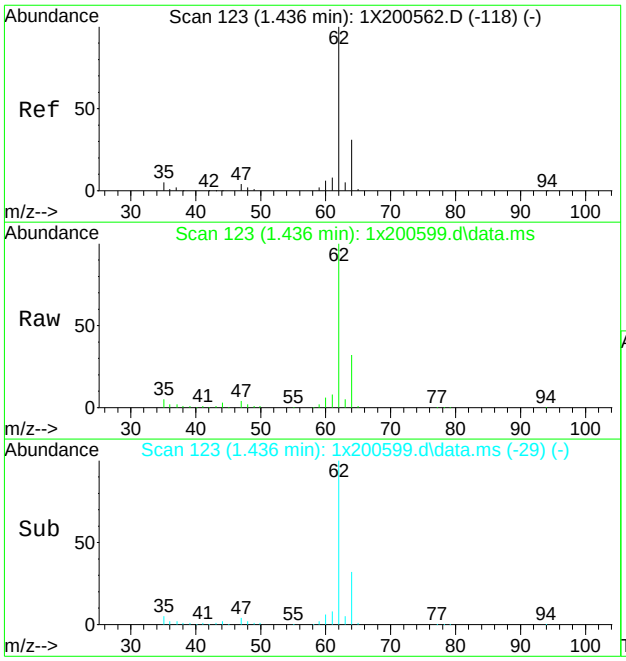
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200599.d
Acq On : 29 Sep 2022 5:32 pm
Operator : taylors
Sample : jd52507-19 Inst : ACC-VOA-MSX
Misc : MS62506,V1X8637,5,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 07:06:47 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

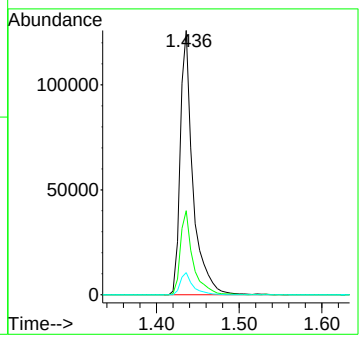


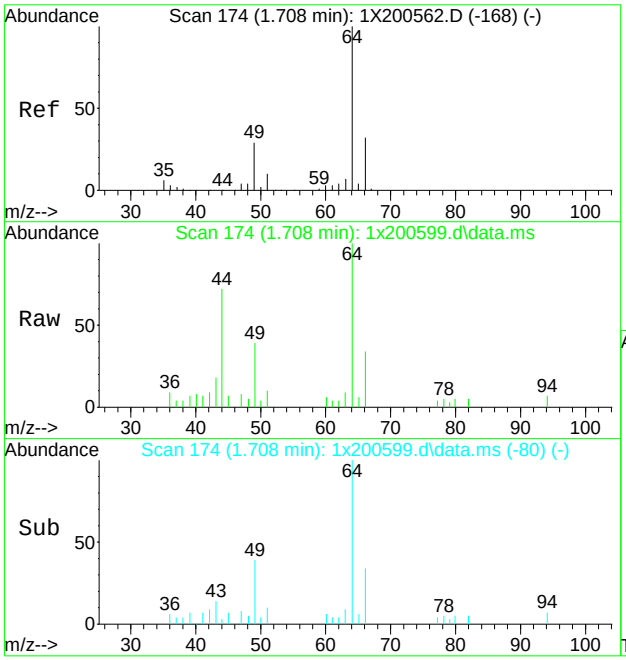



#9
vinyl chloride
Concen: 35.40 ug/L
RT: 1.436 min Scan# 123
Delta R.T. -0.000 min
Lab File: 1x200599.d
Acq: 29 Sep 2022 5:32 pm

Tgt Ion: 62 Resp: 133965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 1.4 | 61.4 |
| 61 | 8.4 | 0.0 | 38.2 |

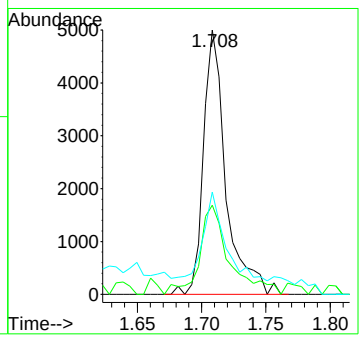


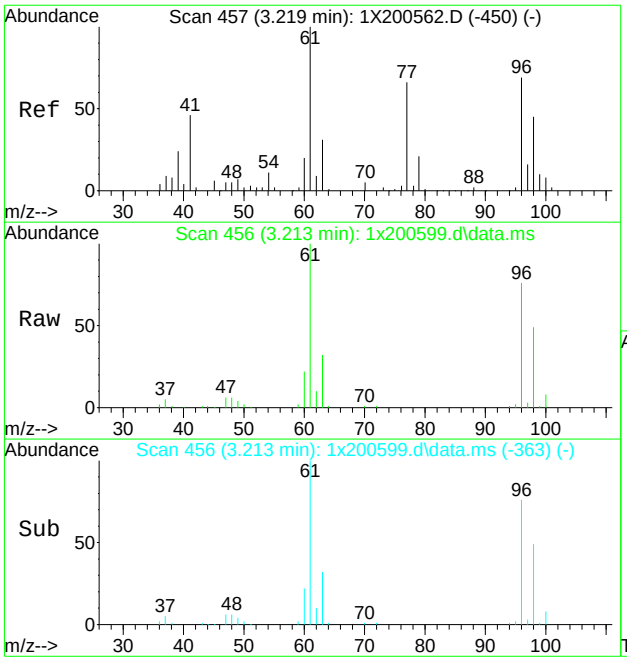




#11
chloroethane
Concen: 3.64 ug/L
RT: 1.708 min Scan# 174
Delta R.T. 0.000 min
Lab File: 1x200599.d
Acq: 29 Sep 2022 5:32 pm

Tgt Ion: 64 Resp: 6093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.7 | 1.5 | 61.5 |
| 49 | 33.4 | 0.0 | 59.8 |

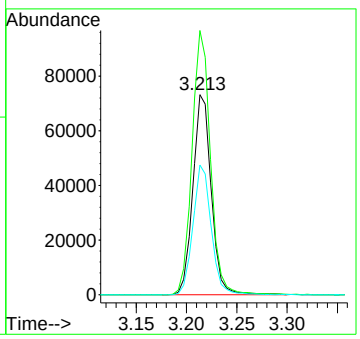


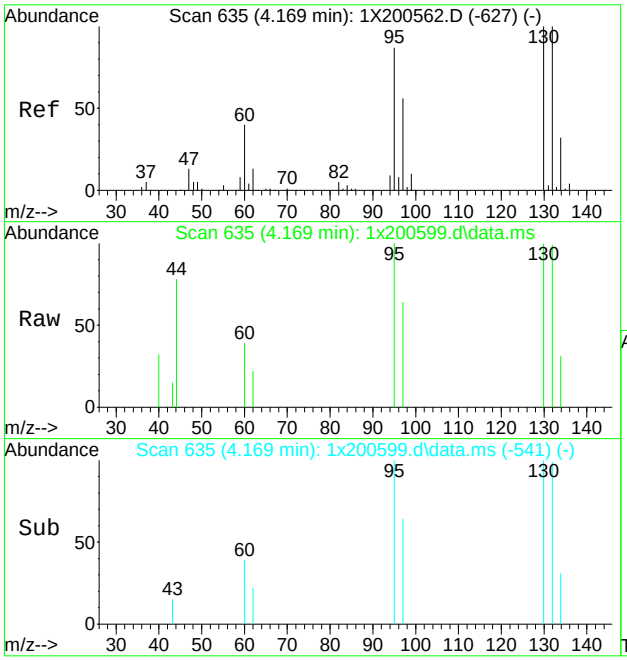



#36
cis-1,2-dichloroethene
Concen: 33.39 ug/L
RT: 3.213 min Scan# 456
Delta R.T. -0.005 min
Lab File: 1x200599.d
Acq: 29 Sep 2022 5:32 pm

Tgt Ion: 96 Resp: 93428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 132.0 | 115.4 | 175.4 |
| 98 | 64.8 | 36.1 | 96.1 |

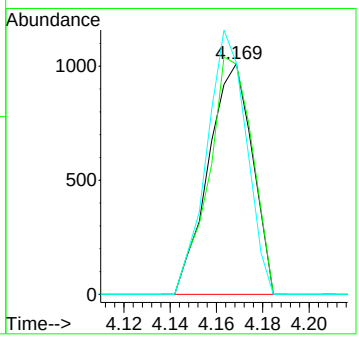



#61
trichloroethene
Concen: 0.43 ug/L
RT: 4.169 min Scan# 635
Delta R.T. 0.001 min
Lab File: 1x200599.d
Acq: 29 Sep 2022 5:32 pm

Tgt Ion:130 Resp: 1337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 99.7 | 69.7 | 129.7 |
| 95 | 100.4 | 57.1 | 117.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-29-22\v1a9698\
Data File : 1a226455.d
Acq On : 27 Sep 2022 8:47 pm
Operator : nickw
Sample : jd52507-20 Inst : MSDTEST1A
Misc : MS62506, V1A9698,5,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 29 05:40:39 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

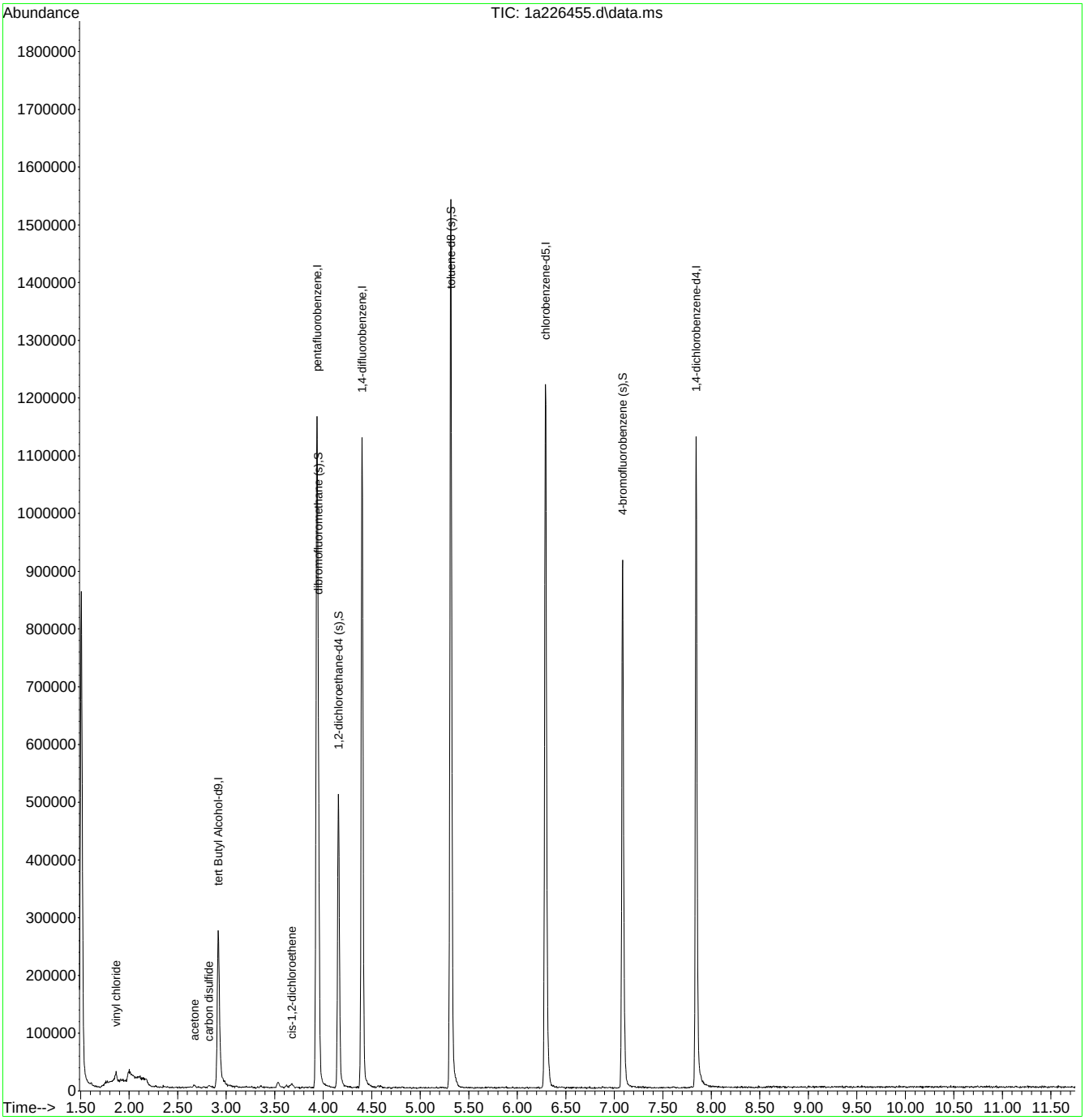
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.918 | 65 | 251570 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.935 | 168 | 489302 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 702569 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 588630 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 227750 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 210713 | 48.87 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.74% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 242822 | 49.91 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.82% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 803274 | 50.73 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.46% | | | |
| 97) 4-bromofluorobenzene (s) | 7.087 | 95 | 236979 | 50.15 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.30% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.866 | 62 | 8285 | 1.38 | ug/L | 92 |
| 18) acetone | 2.671 | 58 | 1380 | 3.21 | ug/L | 92 |
| 22) carbon disulfide | 2.822 | 76 | 3285 | 0.32 | ug/L | 75 |
| 37) cis-1,2-dichloroethene | 3.675 | 96 | 1792 | 0.44 | ug/L | 79 |

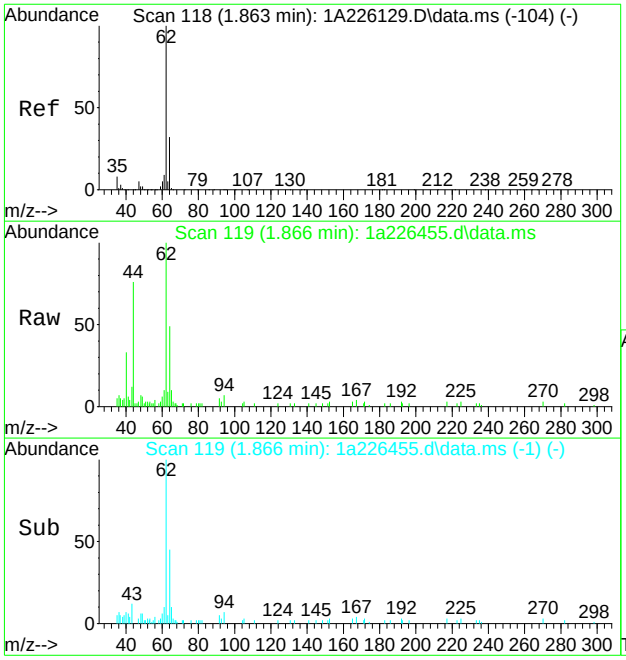
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-29-22\v1a9698\
Data File : 1a226455.d
Acq On : 27 Sep 2022 8:47 pm
Operator : nickw
Sample : jd52507-20 Inst : MSDTEST1A
Misc : MS62506, V1A9698,5,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 29 05:40:39 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

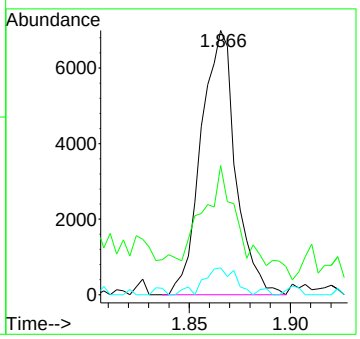


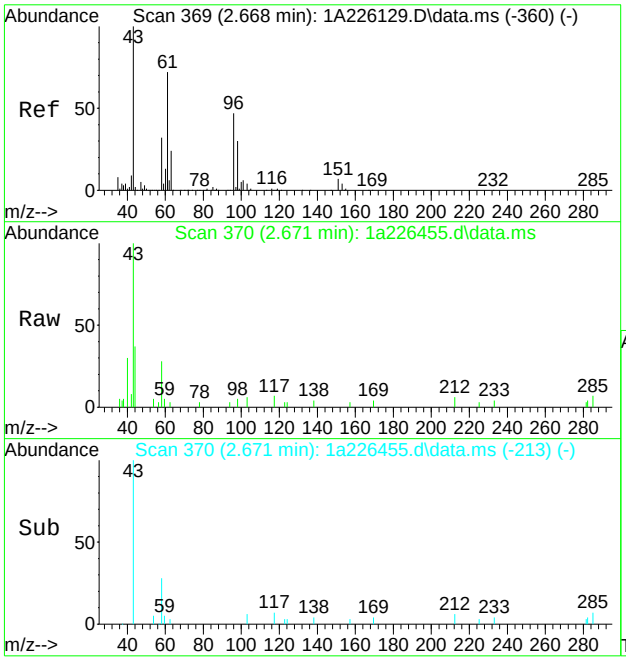



#9
vinyl chloride
Concen: 1.38 ug/L
RT: 1.866 min Scan# 119
Delta R.T. 0.003 min
Lab File: 1a226455.d
Acq: 27 Sep 2022 8:47 pm

Tgt Ion: 62 Resp: 8285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 38.0 | 2.4 | 62.4 |
| 61 | 8.5 | 0.0 | 39.0 |

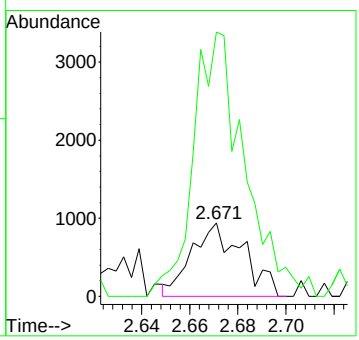


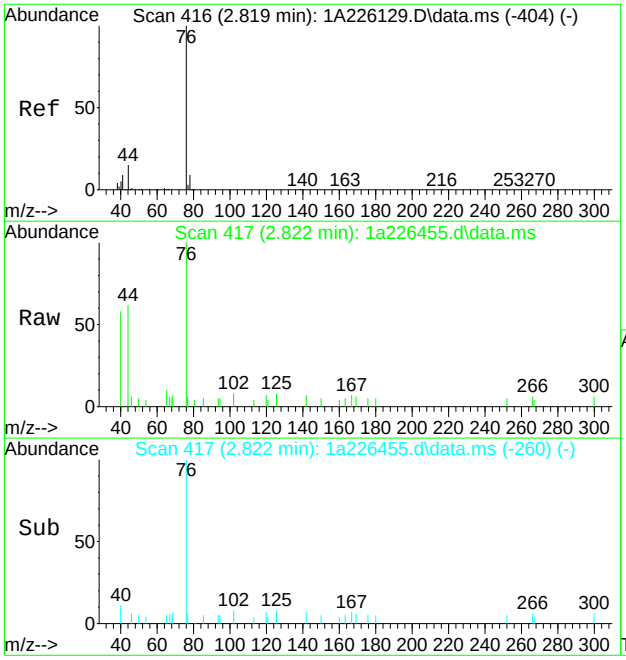




#18
acetone
Concen: 3.21 ug/L
RT: 2.671 min Scan# 370
Delta R.T. 0.003 min
Lab File: 1a226455.d
Acq: 27 Sep 2022 8:47 pm

Tgt Ion: 58 Resp: 1380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 331.1 | 285.7 | 345.7 |

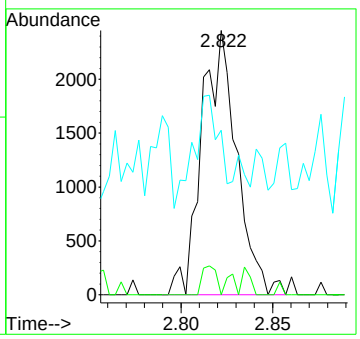


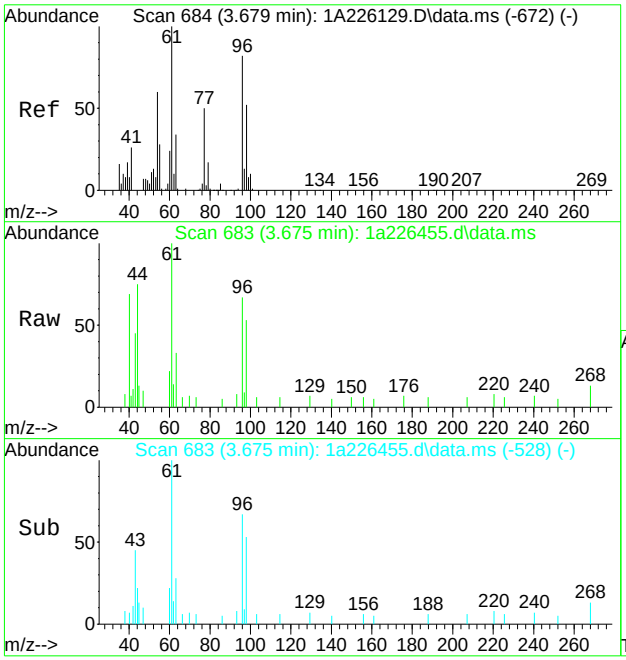



#22
carbon disulfide
Concen: 0.32 ug/L
RT: 2.822 min Scan# 417
Delta R.T. 0.003 min
Lab File: 1a226455.d
Acq: 27 Sep 2022 8:47 pm

Tgt Ion: 76 Resp: 3285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 0.0 | 0.0 | 39.4 |
| 44 | 4.9 | 0.0 | 45.3 |

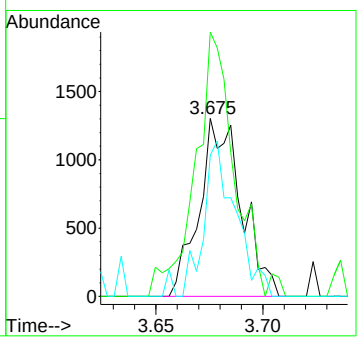



#37
cis-1,2-dichloroethene
Concen: 0.44 ug/L
RT: 3.675 min Scan# 683
Delta R.T. -0.004 min
Lab File: 1a226455.d
Acq: 27 Sep 2022 8:47 pm

Tgt Ion: 96 Resp: 1792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 148.5 | 95.4 | 155.4 |
| 98 | 79.4 | 32.9 | 92.9 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-29-22\v1a9698\
Data File : 1a226456.d
Acq On : 27 Sep 2022 9:11 pm
Operator : nickw
Sample : jd52507-21 Inst : MSDTEST1A
Misc : MS62506, V1A9698,5,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 29 05:43:06 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

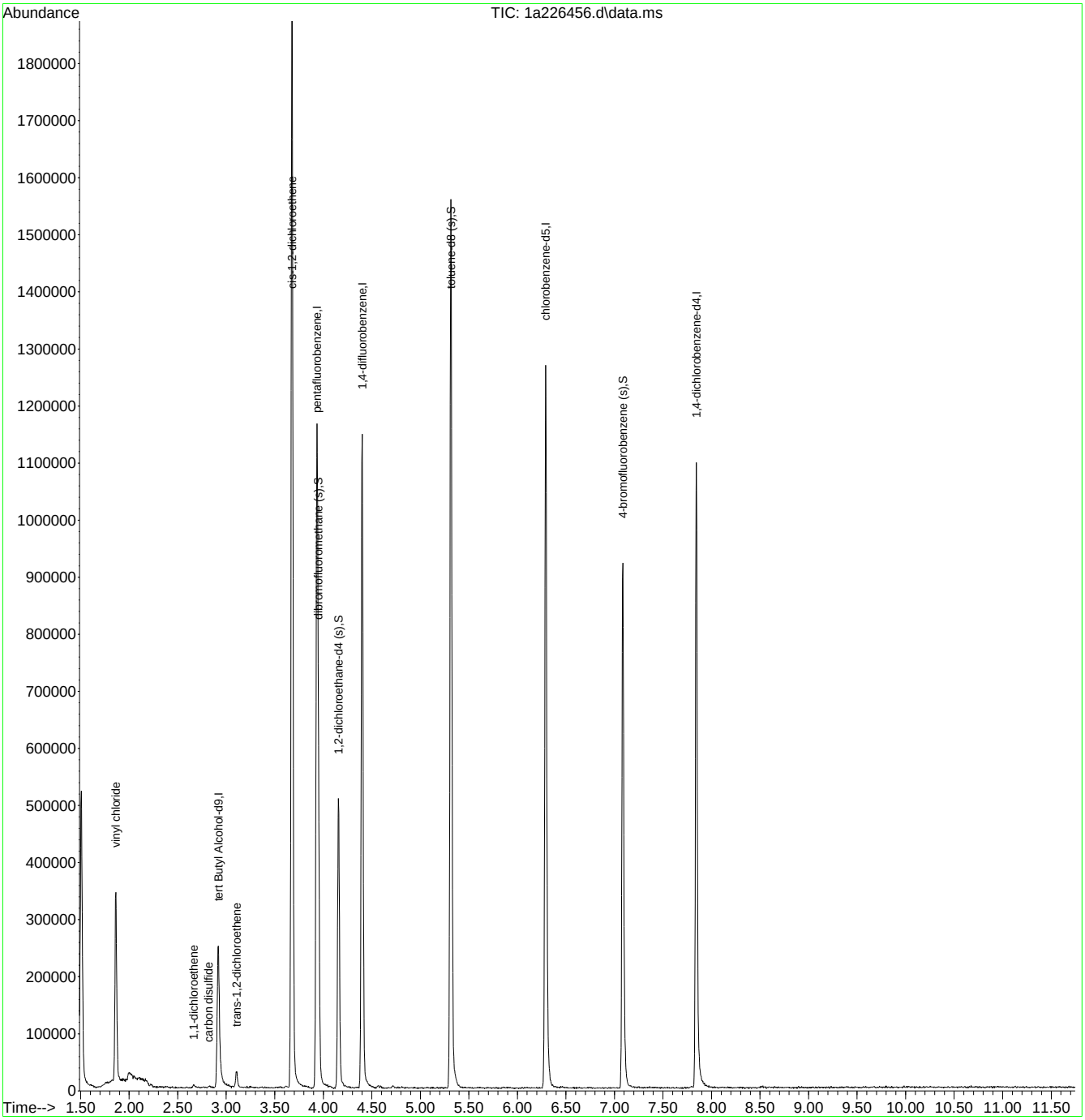
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.918 | 65 | 238785 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.932 | 168 | 476766 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 711250 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 597814 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 234003 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 208959 | 49.74 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.48% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 245708 | 49.89 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.78% | | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 821517 | 51.09 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.18% | | | | |
| 97) 4-bromofluorobenzene (s) | 7.087 | 95 | 243087 | 50.07 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.14% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 9) vinyl chloride | 1.862 | 62 | 242046 | 41.49 | ug/L | | 98 |
| 17) 1,1-dichloroethene | 2.665 | 96 | 1016 | 0.31 | ug/L | # | 58 |
| 22) carbon disulfide | 2.819 | 76 | 2868 | 0.29 | ug/L | | 76 |
| 26) trans-1,2-dichloroethene | 3.108 | 96 | 7818 | 2.21 | ug/L | | 87 |
| 37) cis-1,2-dichloroethene | 3.679 | 96 | 595646 | 149.67 | ug/L | | 93 |

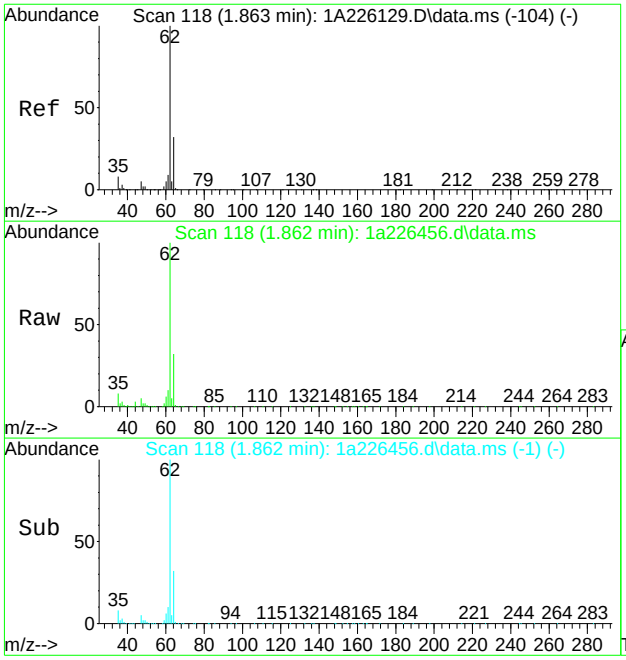
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-29-22\v1a9698\
Data File : 1a226456.d
Acq On : 27 Sep 2022 9:11 pm
Operator : nickw
Sample : jd52507-21 Inst : MSDTEST1A
Misc : MS62506, V1A9698,5,,,,1
ALS Vial : 28 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 29 05:43:06 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

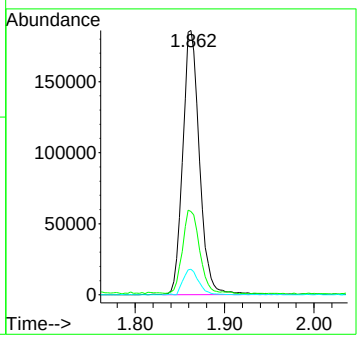


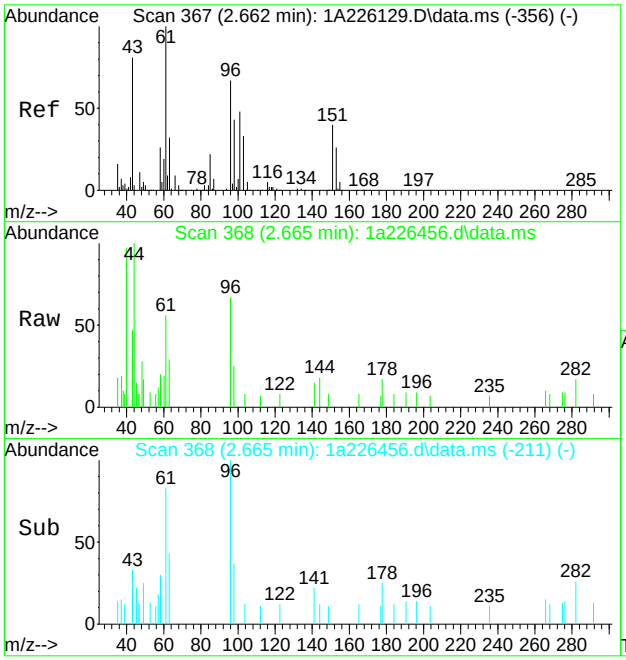



#9
vinyl chloride
Concen: 41.49 ug/L
RT: 1.862 min Scan# 118
Delta R.T. -0.001 min
Lab File: 1a226456.d
Acq: 27 Sep 2022 9:11 pm

Tgt Ion: 62 Resp: 242046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.2 | 2.4 | 62.4 |
| 61 | 9.7 | 0.0 | 39.0 |

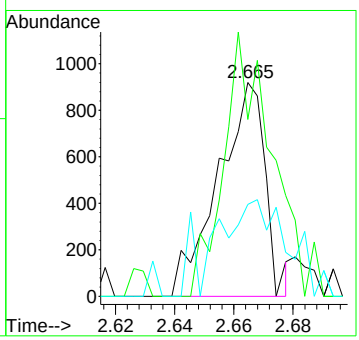


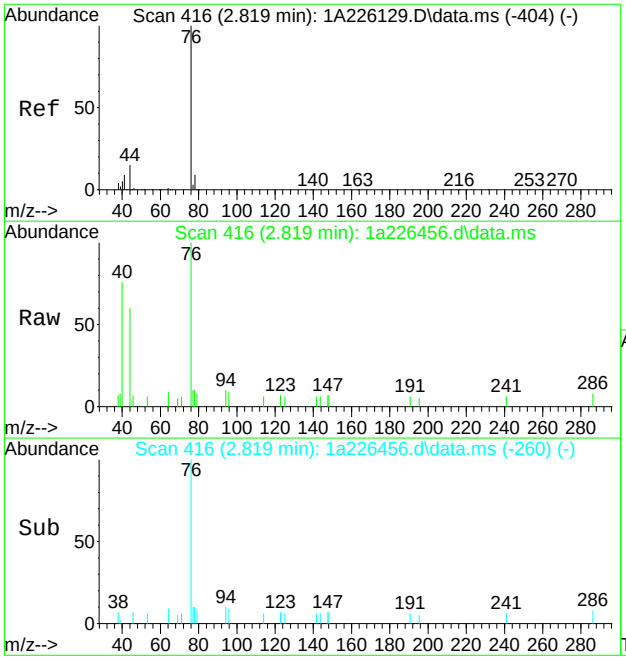




#17
1,1-dichloroethene
Concen: 0.31 ug/L
RT: 2.665 min Scan# 368
Delta R.T. 0.003 min
Lab File: 1a226456.d
Acq: 27 Sep 2022 9:11 pm

Tgt Ion: 96 Resp: 1016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 82.8 | 119.4 | 179.4# |
| 63 | 43.0 | 17.6 | 77.6 |

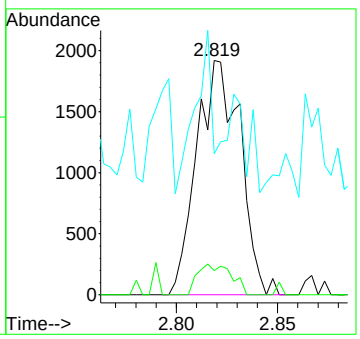


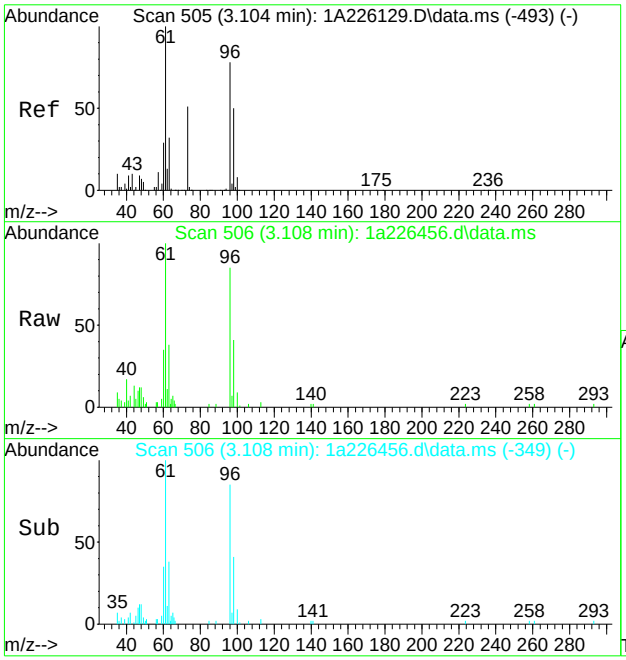



#22
carbon disulfide
Concen: 0.29 ug/L
RT: 2.819 min Scan# 416
Delta R.T. -0.000 min
Lab File: 1a226456.d
Acq: 27 Sep 2022 9:11 pm

Tgt Ion: 76 Resp: 2868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.4 | 0.0 | 39.4 |
| 44 | 0.0 | 0.0 | 45.3 |

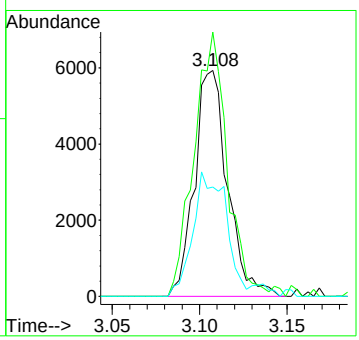


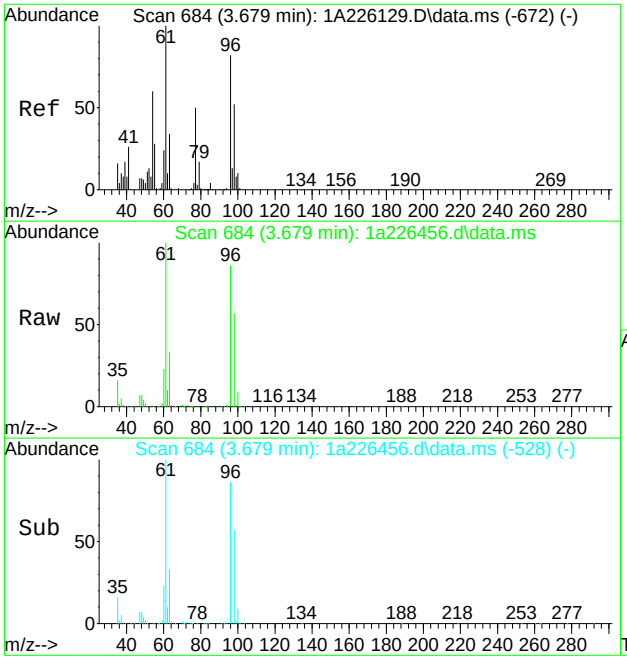




#26
trans-1,2-dichloroethene
Concen: 2.21 ug/L
RT: 3.108 min Scan# 506
Delta R.T. 0.004 min
Lab File: 1a226456.d
Acq: 27 Sep 2022 9:11 pm

Tgt Ion: 96 Resp: 7818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 117.0 | 98.1 | 158.1 |
| 98 | 48.4 | 33.9 | 93.9 |

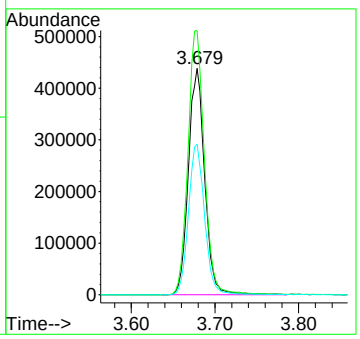





#37
cis-1,2-dichloroethene
Concen: 149.67 ug/L
RT: 3.679 min Scan# 684
Delta R.T. -0.000 min
Lab File: 1a226456.d
Acq: 27 Sep 2022 9:11 pm

Tgt Ion: 96 Resp: 595646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 116.8 | 95.4 | 155.4 |
| 98 | 66.6 | 32.9 | 92.9 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200602.d
Acq On : 29 Sep 2022 6:41 pm
Operator : taylors
Sample : jd52507-22 Inst : ACC-VOA-MSX
Misc : MS62506,V1X8637,5,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 07:09:36 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

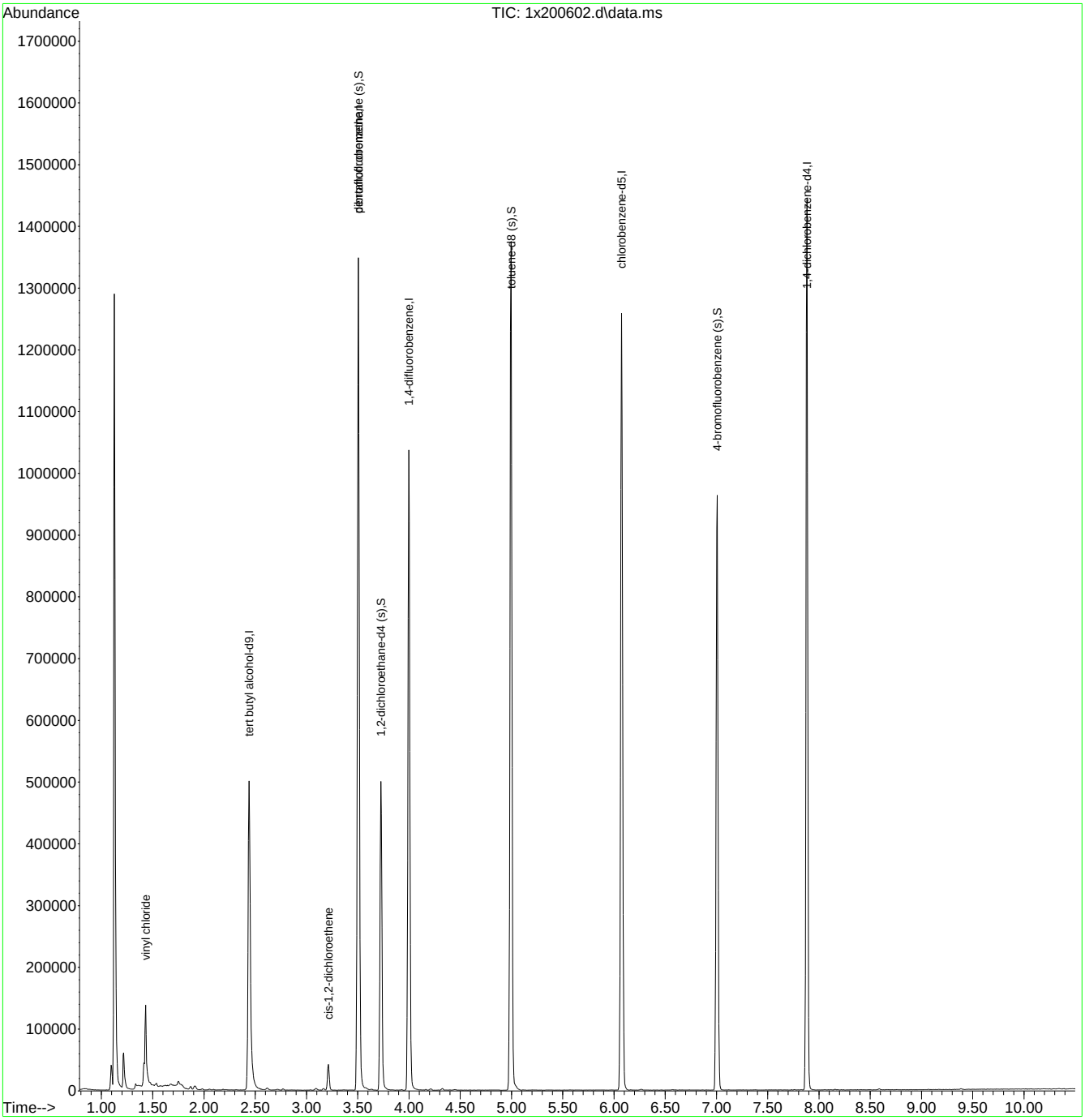
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.439 | 65 | 402834 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.507 | 168 | 436374 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 3.998 | 114 | 605667 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.074 | 117 | 561581 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 276666 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.507 | 113 | 196749 | 47.80 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.60% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.726 | 65 | 226973 | 49.03 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.06% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 668887 | 49.79 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.58% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 241989 | 50.38 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.76% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.431 | 62 | 73296 | 19.04 | ug/L | 100 |
| 36) cis-1,2-dichloroethene | 3.213 | 96 | 11511 | 4.04 | ug/L | 93 |

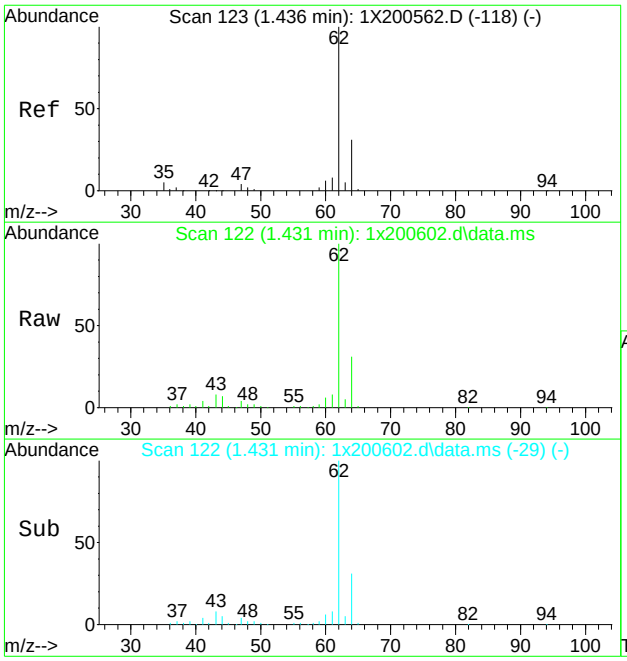
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200602.d
Acq On : 29 Sep 2022 6:41 pm
Operator : taylors
Sample : jd52507-22 Inst : ACC-VOA-MSX
Misc : MS62506,V1X8637,5,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 07:09:36 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

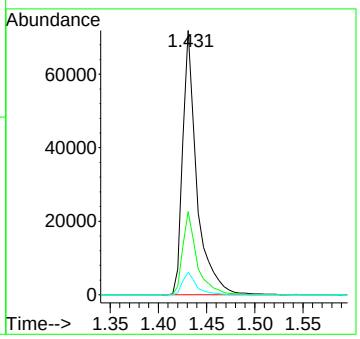


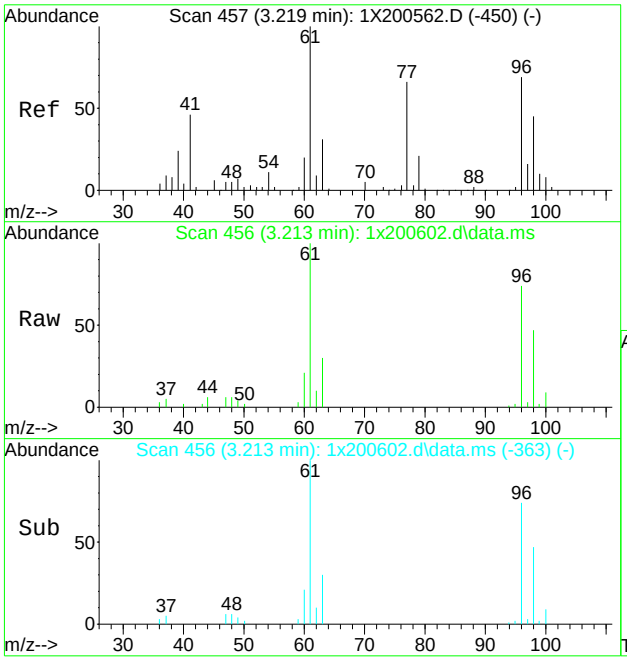



#9
vinyl chloride
Concen: 19.04 ug/L
RT: 1.431 min Scan# 122
Delta R.T. -0.006 min
Lab File: 1x200602.d
Acq: 29 Sep 2022 6:41 pm

Tgt Ion: 62 Resp: 73296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.5 | 1.4 | 61.4 |
| 61 | 8.5 | 0.0 | 38.2 |

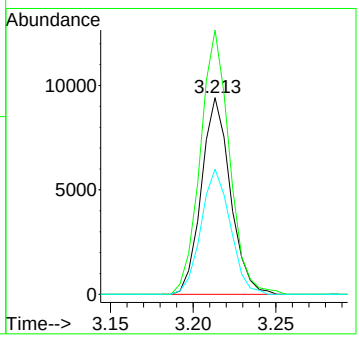



#36
cis-1,2-dichloroethene
Concen: 4.04 ug/L
RT: 3.213 min Scan# 456
Delta R.T. -0.005 min
Lab File: 1x200602.d
Acq: 29 Sep 2022 6:41 pm

Tgt Ion: 96 Resp: 11511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 134.4 | 115.4 | 175.4 |
| 98 | 63.7 | 36.1 | 96.1 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93010.d
Acq On : 30 Sep 2022 1:31 am
Operator : KYLEM
Sample : jd52507-23 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 42 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:47:24 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

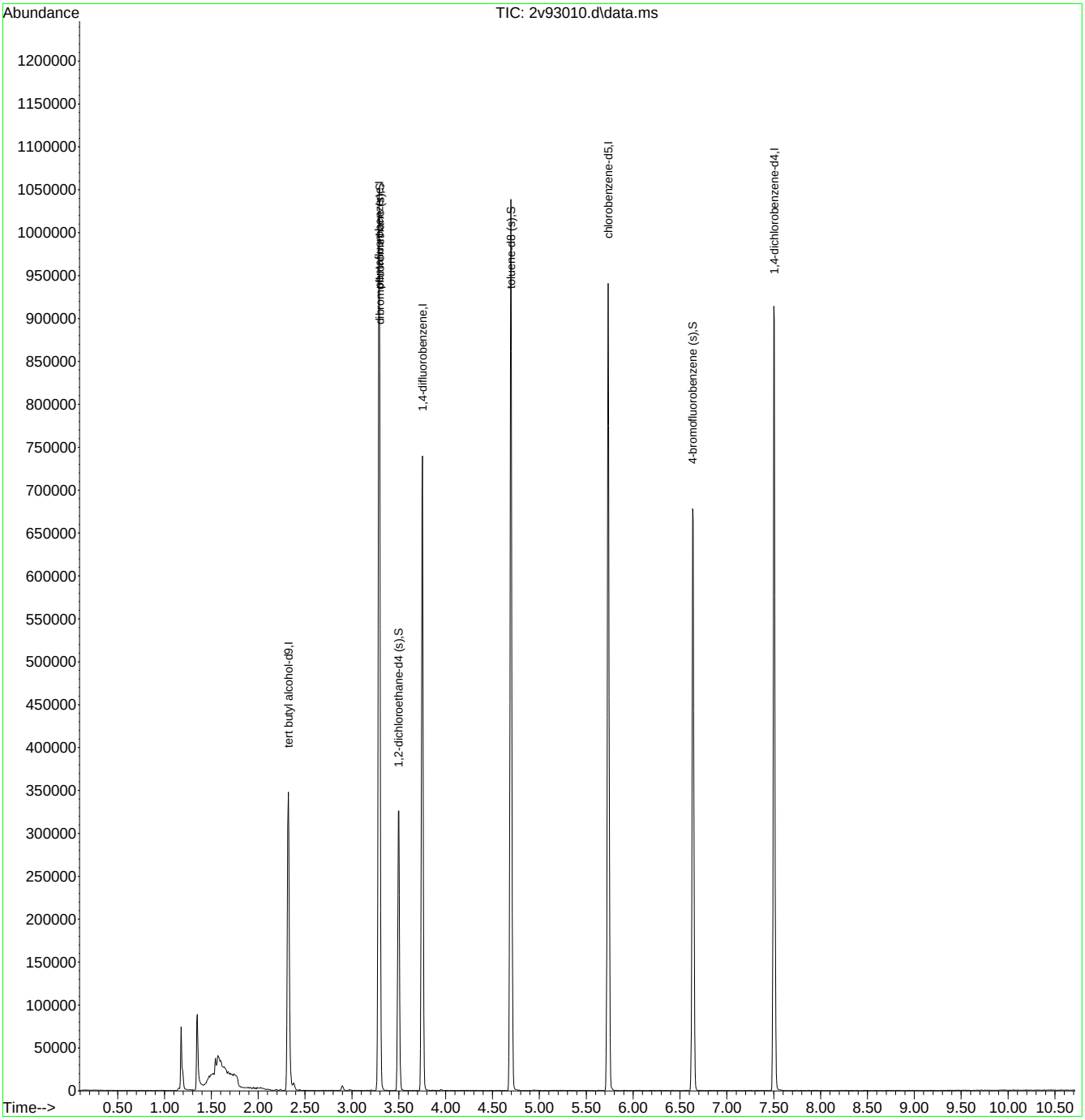
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 265645 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.291 | 168 | 313491 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 434388 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 400699 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 183632 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.296 | 113 | 156051 | 49.92 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.84% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 148351 | 48.17 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 96.34% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 501989 | 50.90 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.80% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 152261 | 46.44 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.88% | | | |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93010.d
Acq On : 30 Sep 2022 1:31 am
Operator : KYLEM
Sample : jd52507-23 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 42 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:47:24 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93017.d
Acq On : 30 Sep 2022 4:14 am
Operator : KYLEM
Sample : jd52507-24 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 49 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:54:17 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

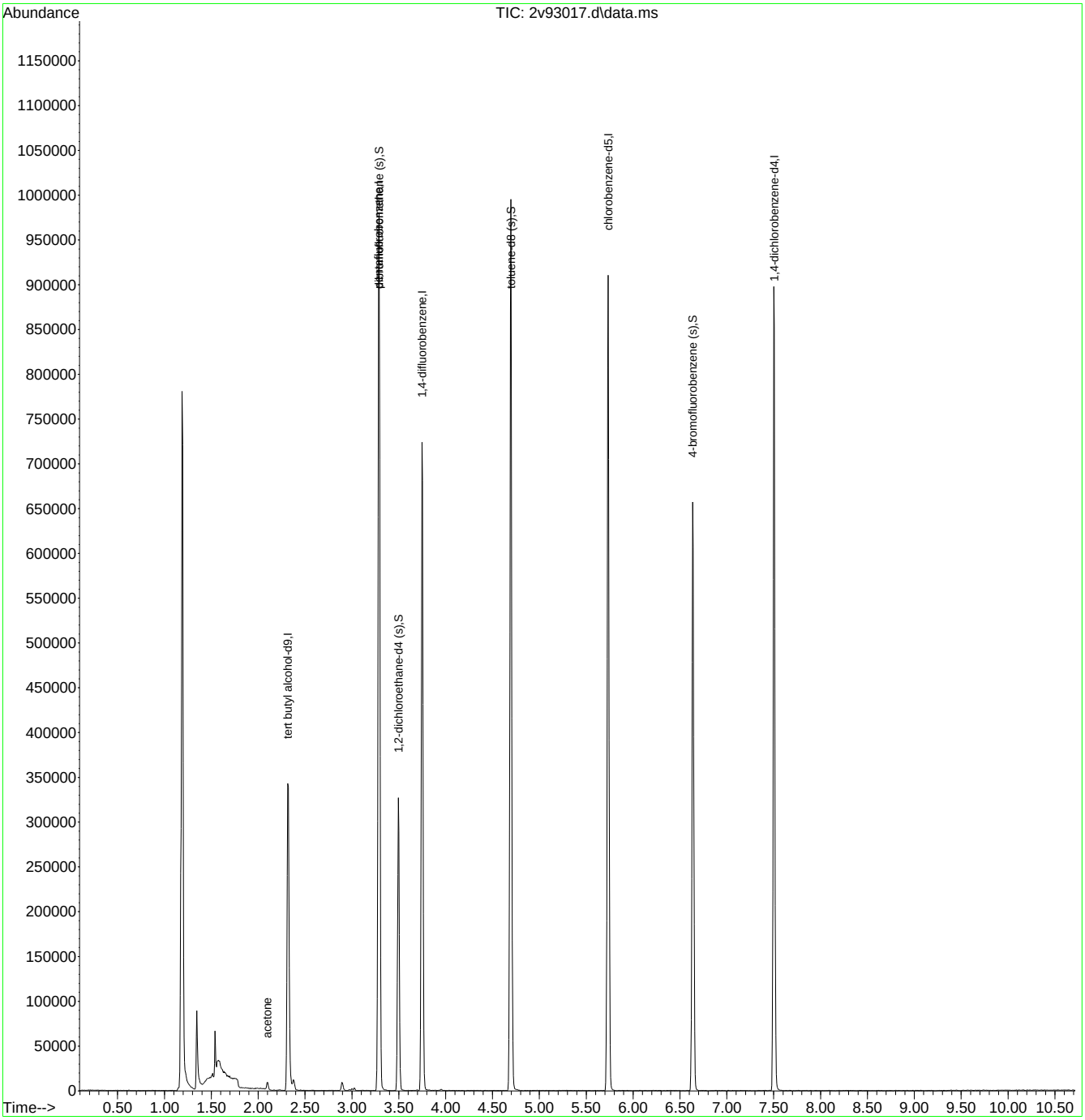
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 266689 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 305957 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 423774 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 391702 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 178251 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 151921 | 49.79 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.58% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 142119 | 47.30 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 94.60% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 489056 | 50.73 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.46% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 147543 | 46.36 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.72% | | | |
| Target Compounds | | | | | | Qvalue |
| 18) acetone | 2.095 | 58 | 1881 | 4.77 | ug/L | # 66 |

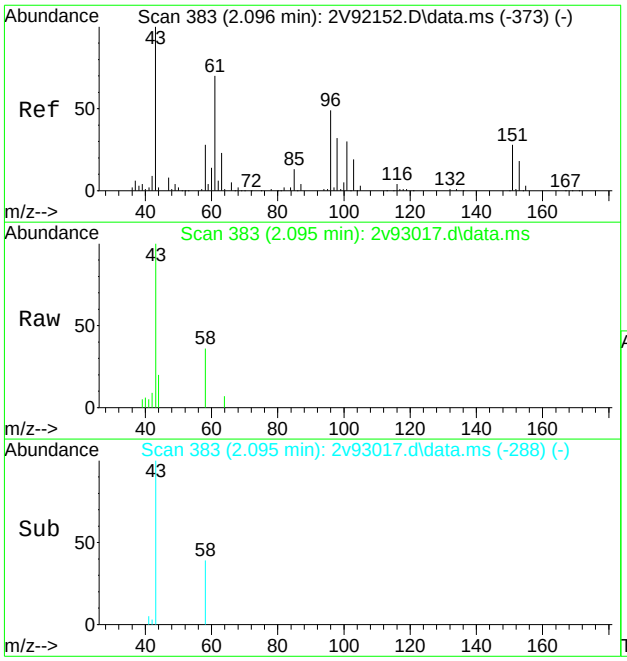
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93017.d
Acq On : 30 Sep 2022 4:14 am
Operator : KYLEM
Sample : jd52507-24 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 49 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:54:17 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

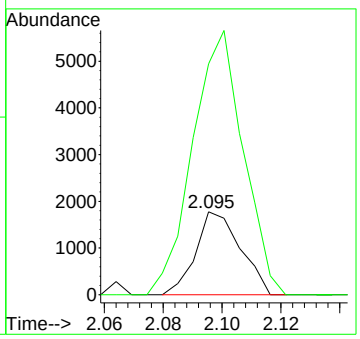





#18
acetone
Concen: 4.77 ug/L
RT: 2.095 min Scan# 383
Delta R.T. -0.001 min
Lab File: 2v93017.d
Acq: 30 Sep 2022 4:14 am

Tgt Ion: 58 Resp: 1881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 277.9 | 322.3 | 382.3# |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93018.d
Acq On : 30 Sep 2022 4:37 am
Operator : KYLEM
Sample : jd52507-25 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:55:16 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

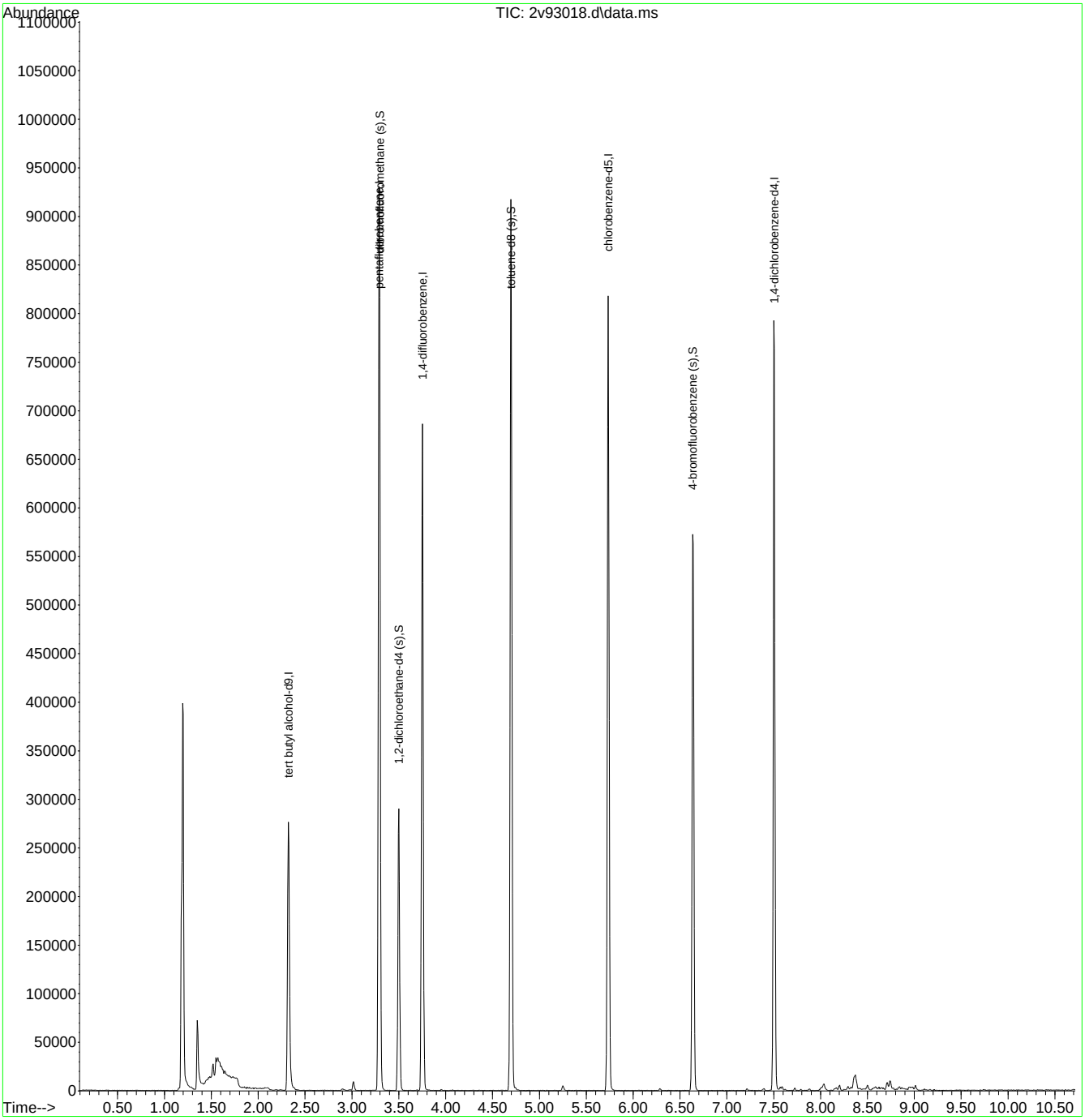
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 207460 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.291 | 168 | 284123 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 393946 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 348659 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 157176 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.296 | 113 | 139798 | 49.34 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.68% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.501 | 65 | 127351 | 45.59 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 91.18% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 445050 | 51.86 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.72% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 129340 | 46.09 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.18% | | | |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93018.d
Acq On : 30 Sep 2022 4:37 am
Operator : KYLEM
Sample : jd52507-25 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:55:16 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93019.d
Acq On : 30 Sep 2022 5:00 am
Operator : KYLEM
Sample : jd52507-26 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 51 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:58:00 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

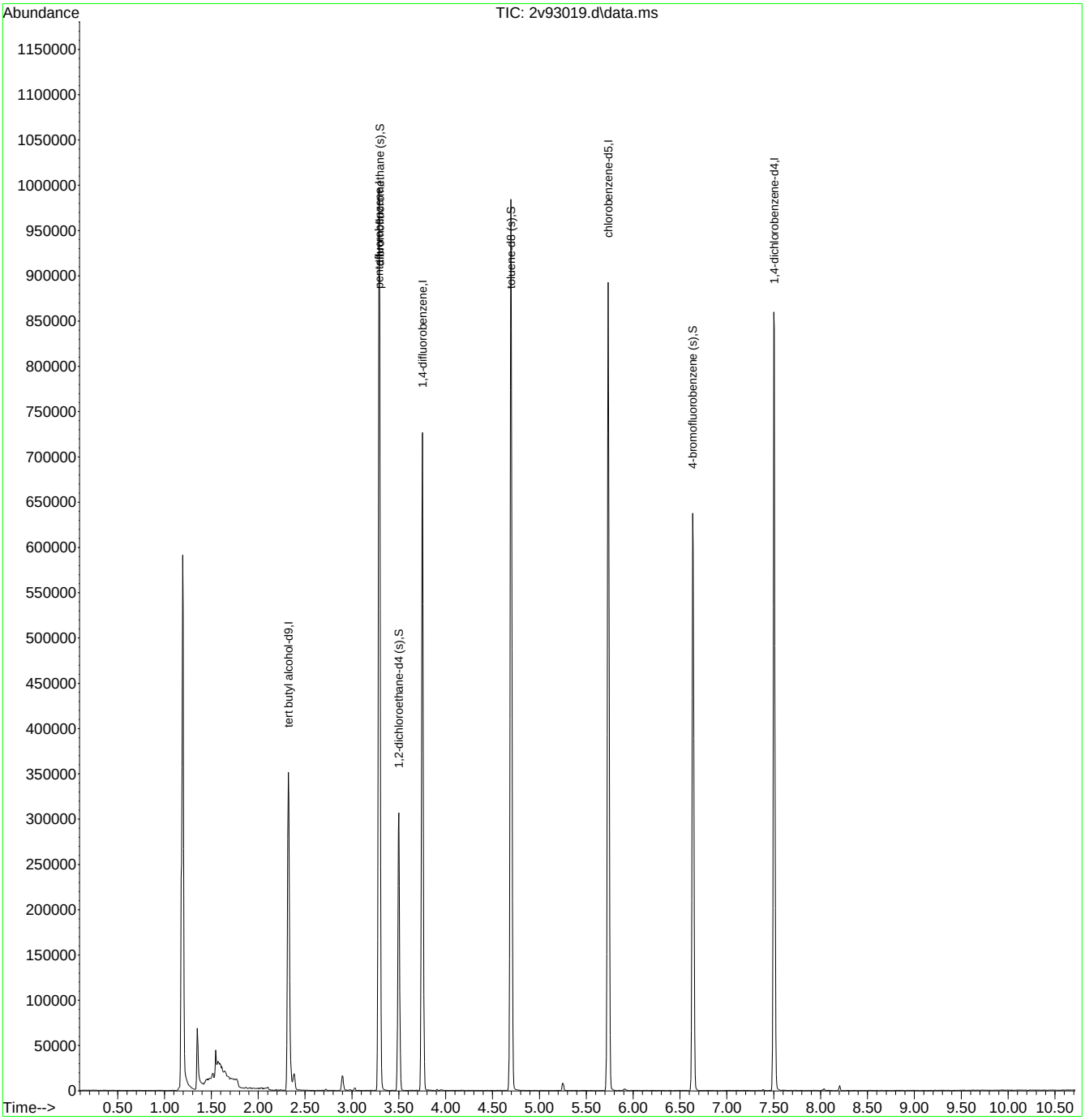
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 271747 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.291 | 168 | 302797 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 416483 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 376258 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 168043 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.296 | 113 | 147795 | 48.95 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.90% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.500 | 65 | 136880 | 46.35 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 92.70% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 479666 | 51.79 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.58% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 139513 | 46.50 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.00% | | | |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93019.d
Acq On : 30 Sep 2022 5:00 am
Operator : KYLEM
Sample : jd52507-26 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 51 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:58:00 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93020.d
Acq On : 30 Sep 2022 5:23 am
Operator : KYLEM
Sample : jd52507-27 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 52 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:58:49 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

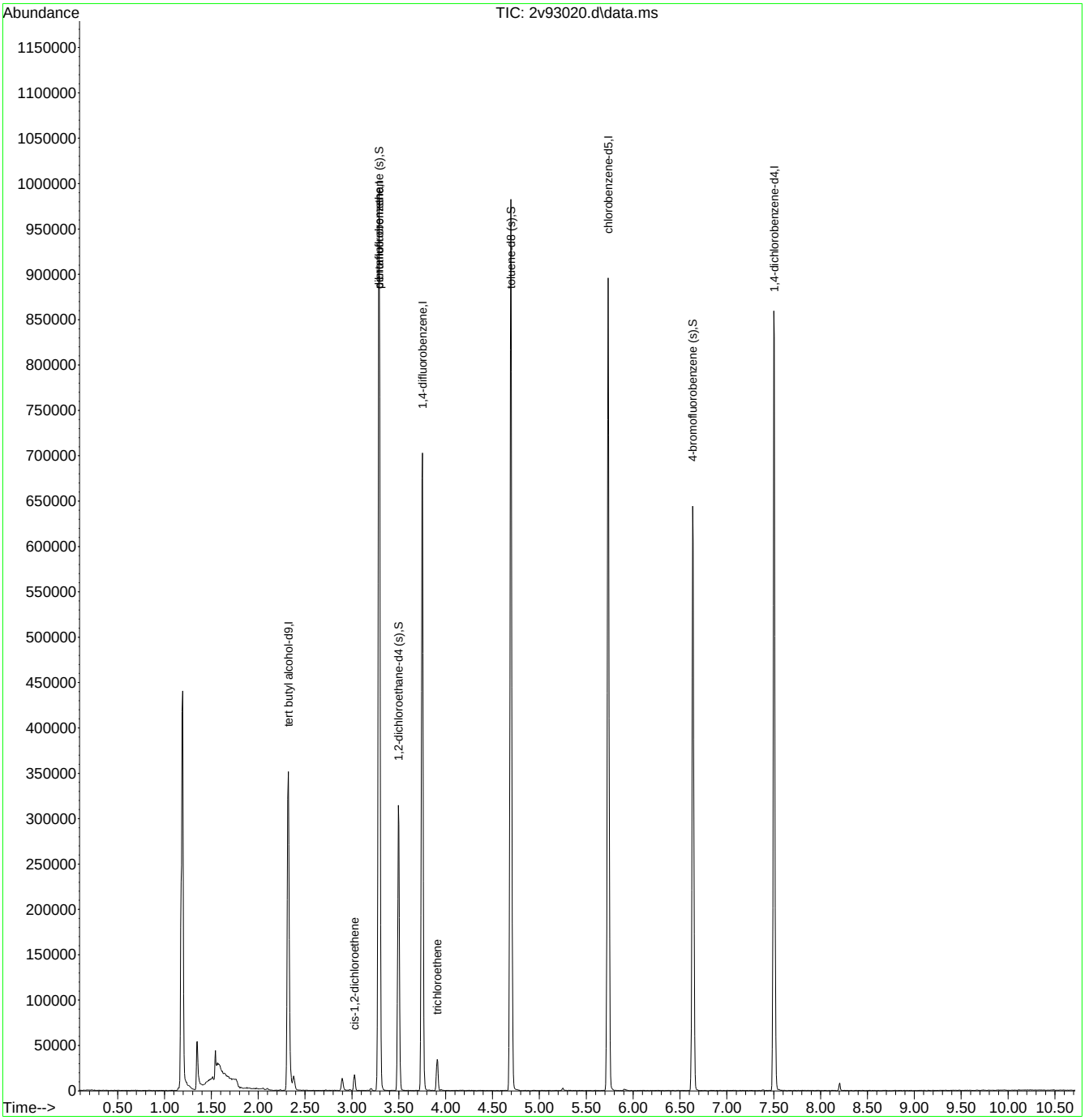
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 270288 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.291 | 168 | 302087 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 415845 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 381258 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 170177 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 148152 | 49.18 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.36% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 136606 | 46.33 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 92.66% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 476666 | 50.79 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.58% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 142147 | 46.78 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.56% | | | |
| Target Compounds | | | | | | Qvalue |
| 36) cis-1,2-dichloroethene | 3.029 | 96 | 5011 | 1.67 | ug/L | 94 |
| 59) trichloroethene | 3.909 | 95 | 7513 | 2.54 | ug/L | 93 |

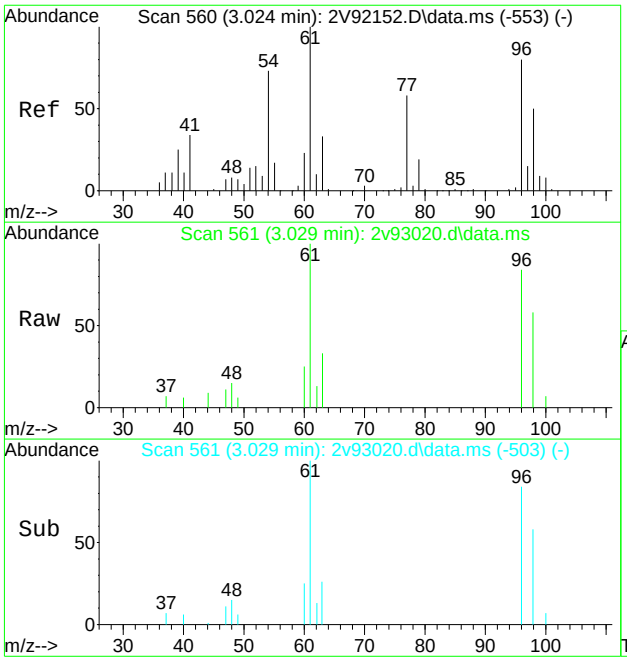
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93020.d
Acq On : 30 Sep 2022 5:23 am
Operator : KYLEM
Sample : jd52507-27 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 52 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:58:49 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

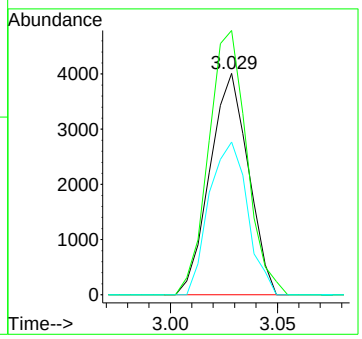


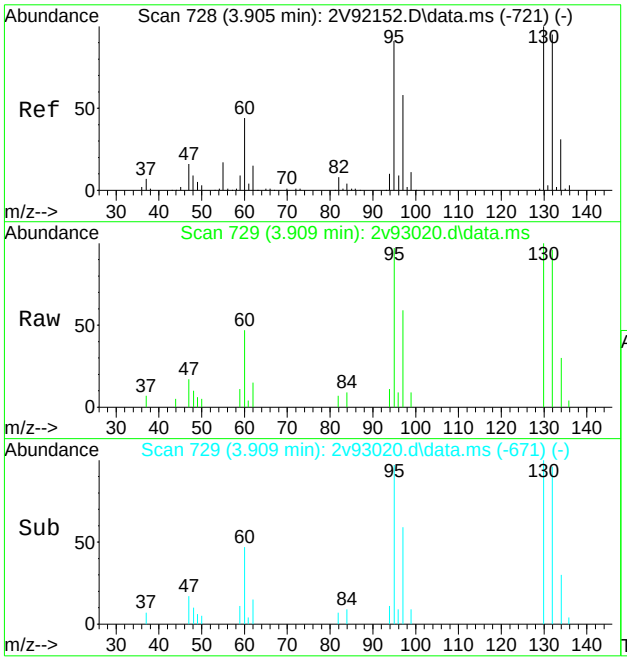



#36
cis-1,2-dichloroethene
Concen: 1.67 ug/L
RT: 3.029 min Scan# 561
Delta R.T. 0.005 min
Lab File: 2v93020.d
Acq: 30 Sep 2022 5:23 am

Tgt Ion: 96 Resp: 5011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 119.5 | 95.8 | 155.8 |
| 98 | 69.0 | 32.6 | 92.6 |

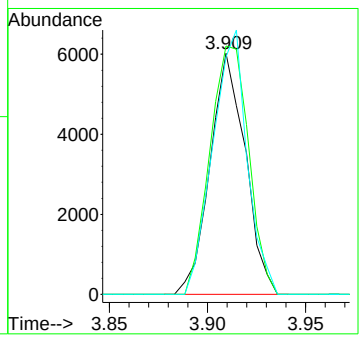



#59
trichloroethene
Concen: 2.54 ug/L
RT: 3.909 min Scan# 729
Delta R.T. 0.004 min
Lab File: 2v93020.d
Acq: 30 Sep 2022 5:23 am

Tgt Ion: 95 Resp: 7513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 103.0 | 80.3 | 140.3 |
| 132 | 98.4 | 75.3 | 135.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93021.d
Acq On : 30 Sep 2022 5:46 am
Operator : KYLEM
Sample : jd52507-28 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 53 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 02:00:19 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

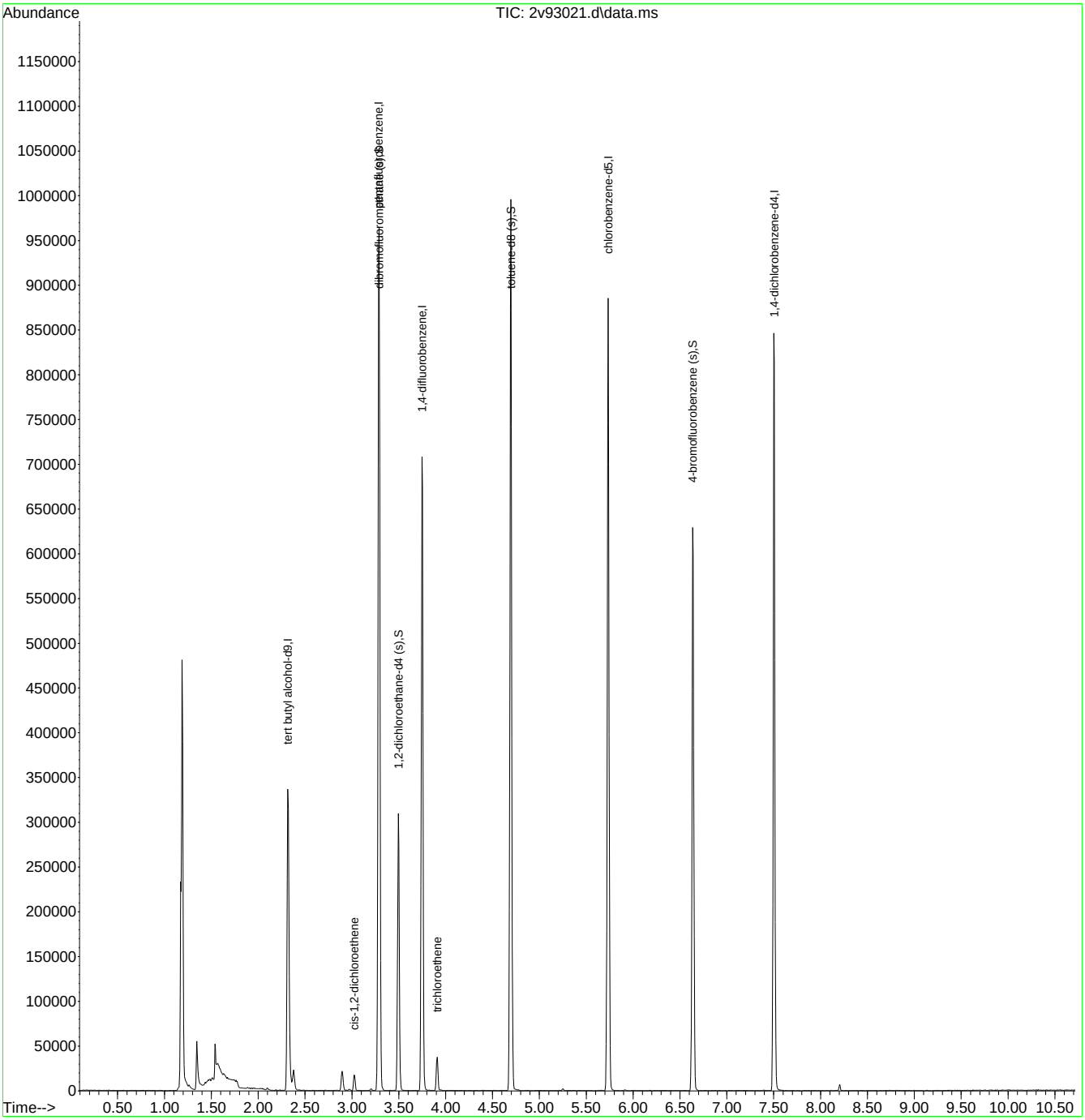
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 257635 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 302396 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 417366 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 381602 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 166050 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 149370 | 49.53 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.06% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 134566 | 45.47 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 90.94% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 475598 | 50.64 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.28% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 140500 | 47.39 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.78% | | | |
| Target Compounds | | | | | | Qvalue |
| 36) cis-1,2-dichloroethene | 3.023 | 96 | 5198 | 1.73 | ug/L | 87 |
| 59) trichloroethene | 3.910 | 95 | 7951 | 2.68 | ug/L | 95 |

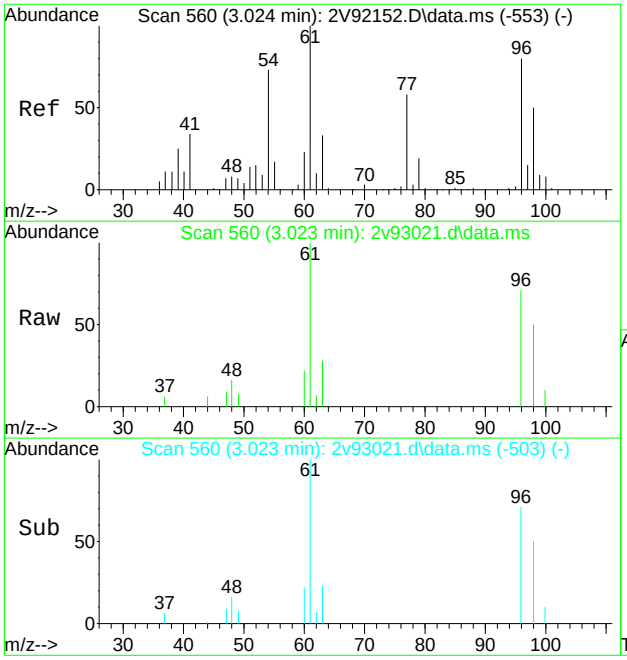
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93021.d
Acq On : 30 Sep 2022 5:46 am
Operator : KYLEM
Sample : jd52507-28 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 53 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 02:00:19 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

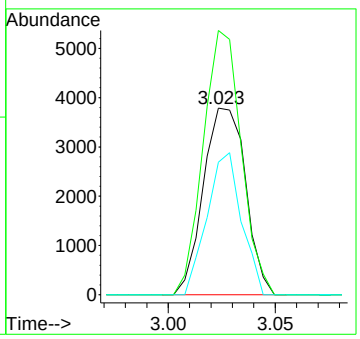


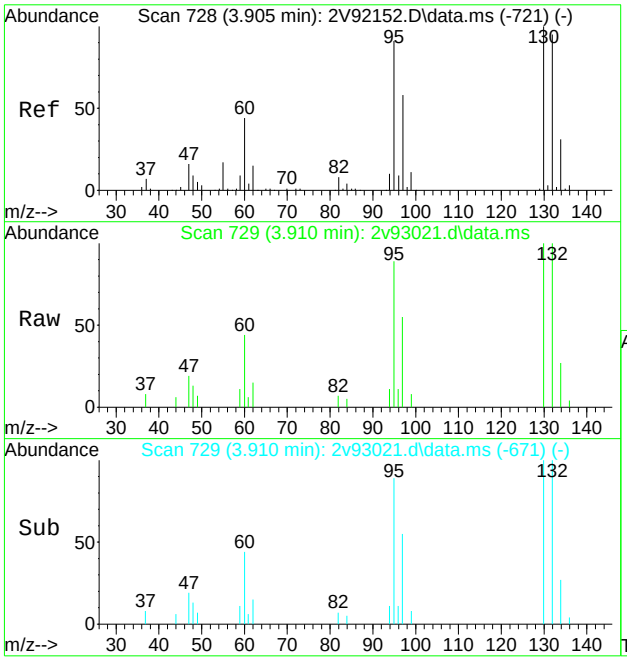



#36
cis-1,2-dichloroethene
Concen: 1.73 ug/L
RT: 3.023 min Scan# 560
Delta R.T. -0.001 min
Lab File: 2v93021.d
Acq: 30 Sep 2022 5:46 am

Tgt Ion: 96 Resp: 5198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.7 | 95.8 | 155.8 |
| 98 | 71.0 | 32.6 | 92.6 |

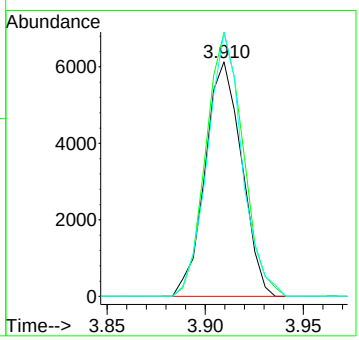



#59
trichloroethene
Concen: 2.68 ug/L
RT: 3.910 min Scan# 729
Delta R.T. 0.005 min
Lab File: 2v93021.d
Acq: 30 Sep 2022 5:46 am

Tgt Ion: 95 Resp: 7951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 112.5 | 80.3 | 140.3 |
| 132 | 112.7 | 75.3 | 135.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93022.d
Acq On : 30 Sep 2022 6:09 am
Operator : KYLEM
Sample : jd52507-29 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,50
ALS Vial : 54 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 02:01:27 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

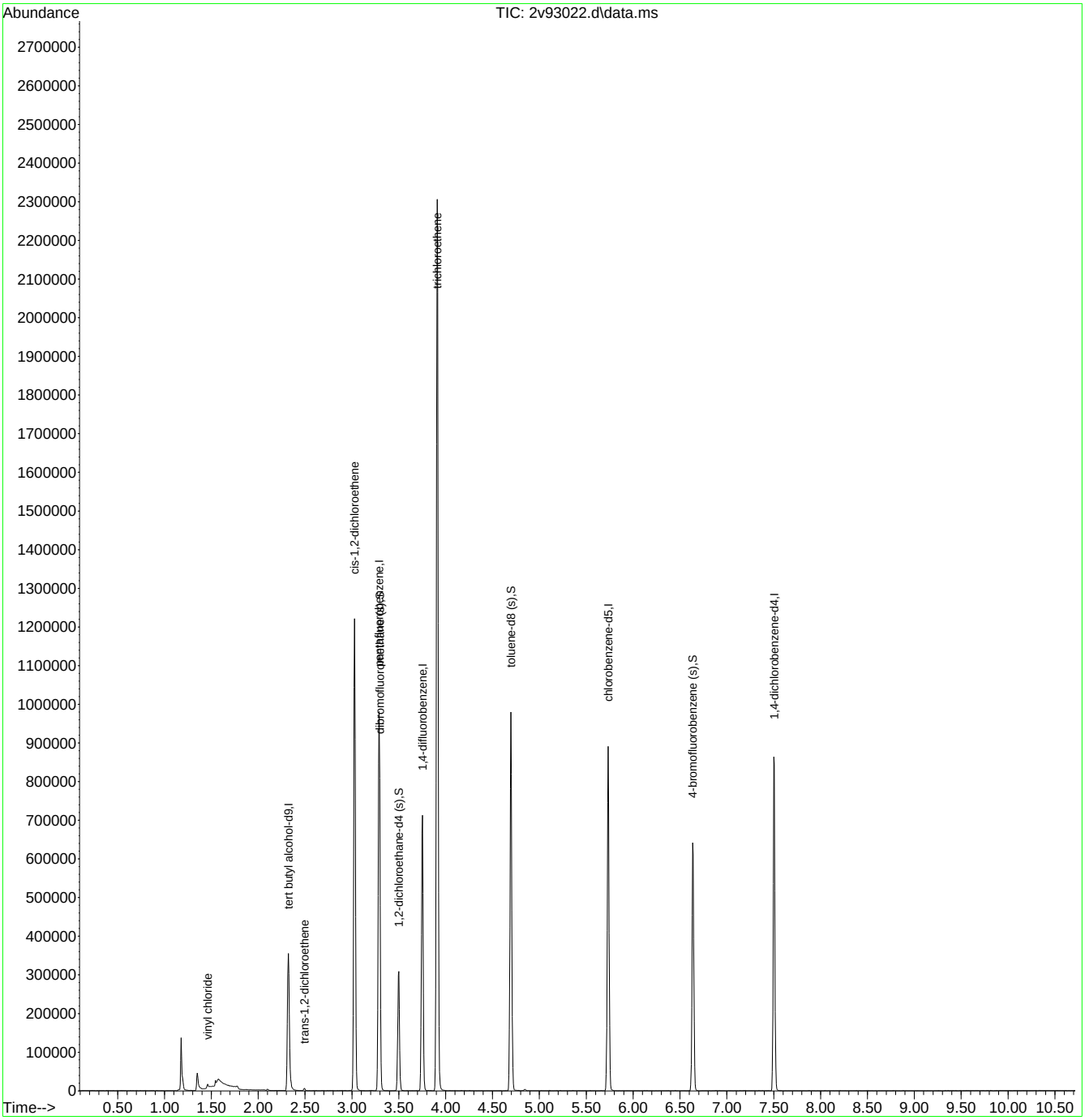
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 272683 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.291 | 168 | 300290 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 419168 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 384321 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 173151 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.296 | 113 | 148393 | 49.56 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.12% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.500 | 65 | 140225 | 47.18 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 94.36% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 468430 | 49.52 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.04% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 143948 | 46.56 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.12% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.461 | 62 | 5589 | 1.36 | ug/L | 57 |
| 25) trans-1,2-dichloroethene | 2.494 | 96 | 1641 | 0.64 | ug/L # | 74 |
| 36) cis-1,2-dichloroethene | 3.029 | 96 | 341275 | 114.33 | ug/L | 93 |
| 59) trichloroethene | 3.909 | 95 | 452567 | 152.00 | ug/L | 98 |

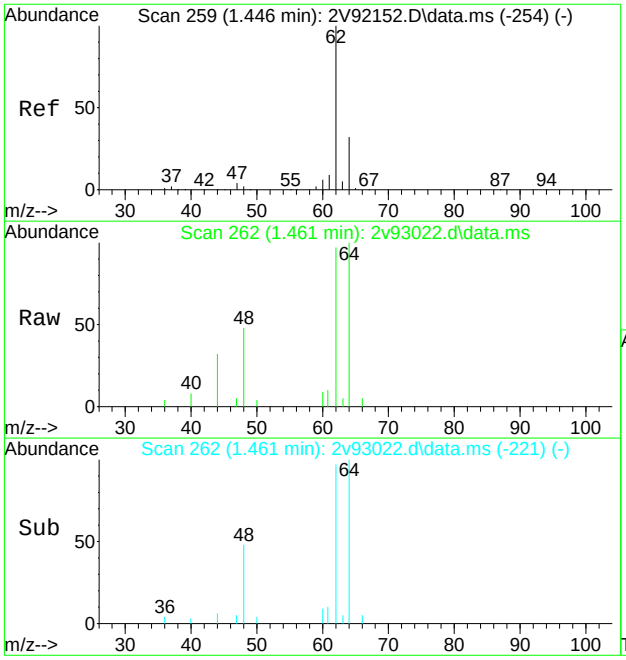
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93022.d
Acq On : 30 Sep 2022 6:09 am
Operator : KYLEM
Sample : jd52507-29 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,50
ALS Vial : 54 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 02:01:27 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

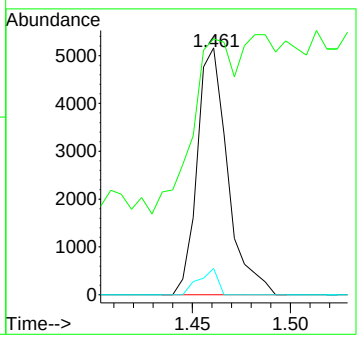


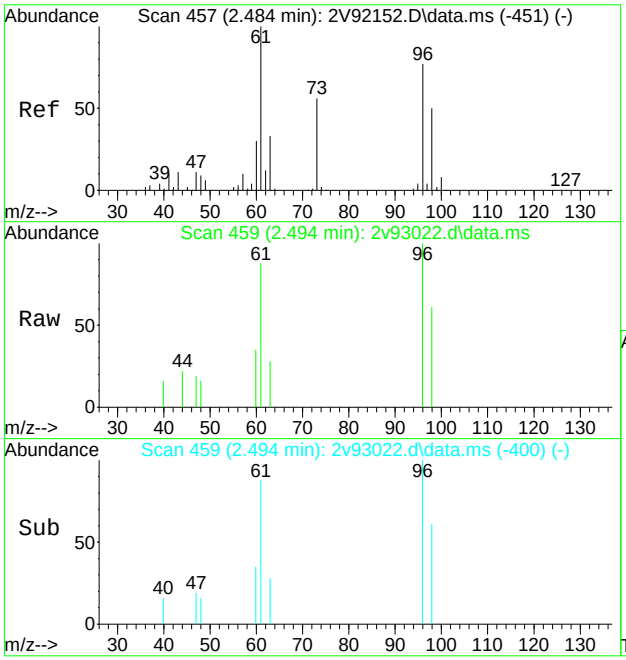



#9
vinyl chloride
Concen: 1.36 ug/L
RT: 1.461 min Scan# 262
Delta R.T. 0.015 min
Lab File: 2v93022.d
Acq: 30 Sep 2022 6:09 am

Tgt Ion: 62 Resp: 5589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 61.9 | 2.1 | 62.1 |
| 61 | 10.6 | 0.0 | 38.8 |

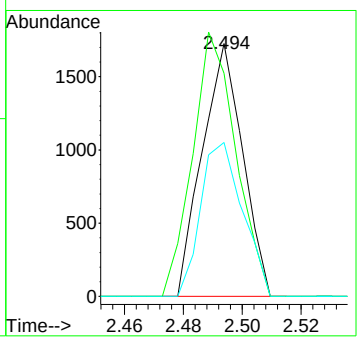


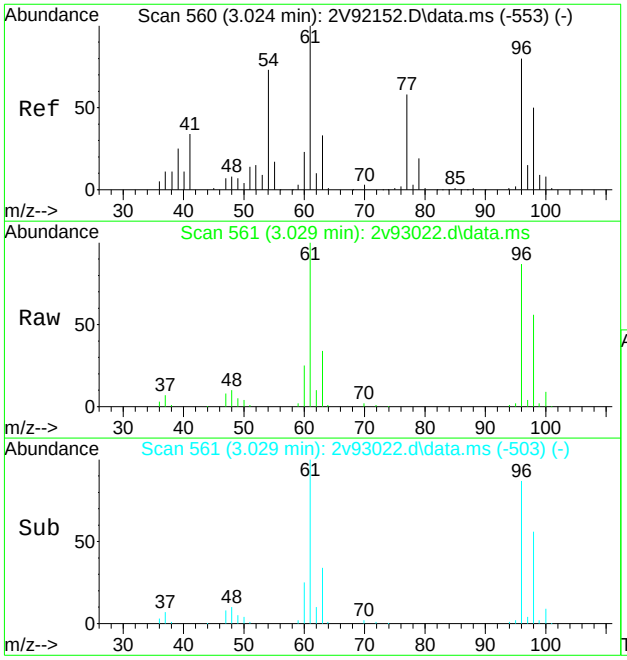




#25
trans-1,2-dichloroethene
Concen: 0.64 ug/L
RT: 2.494 min Scan# 459
Delta R.T. 0.010 min
Lab File: 2v93022.d
Acq: 30 Sep 2022 6:09 am

Tgt Ion: 96 Resp: 1641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 88.2 | 100.1 | 160.1# |
| 98 | 60.9 | 34.6 | 94.6 |

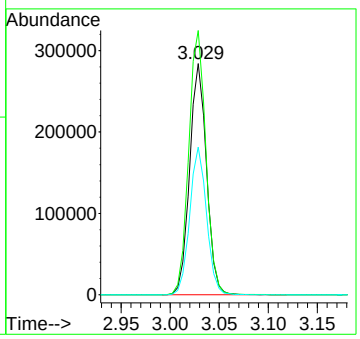


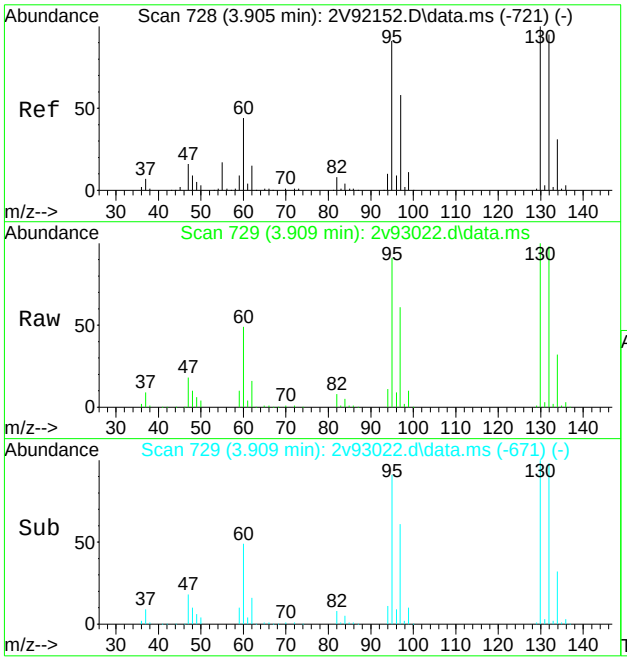



#36
cis-1,2-dichloroethene
Concen: 114.33 ug/L
RT: 3.029 min Scan# 561
Delta R.T. 0.005 min
Lab File: 2v93022.d
Acq: 30 Sep 2022 6:09 am

Tgt Ion: 96 Resp: 341275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 114.3 | 95.8 | 155.8 |
| 98 | 63.9 | 32.6 | 92.6 |

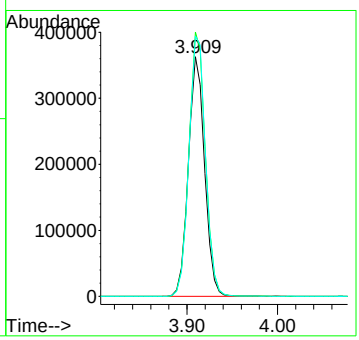



#59
trichloroethene
Concen: 152.00 ug/L
RT: 3.909 min Scan# 729
Delta R.T. 0.004 min
Lab File: 2v93022.d
Acq: 30 Sep 2022 6:09 am

Tgt Ion: 95 Resp: 452567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 110.4 | 80.3 | 140.3 |
| 132 | 108.7 | 75.3 | 135.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93023.d
Acq On : 30 Sep 2022 6:32 am
Operator : KYLEM
Sample : jd52507-30 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 55 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 02:03:17 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

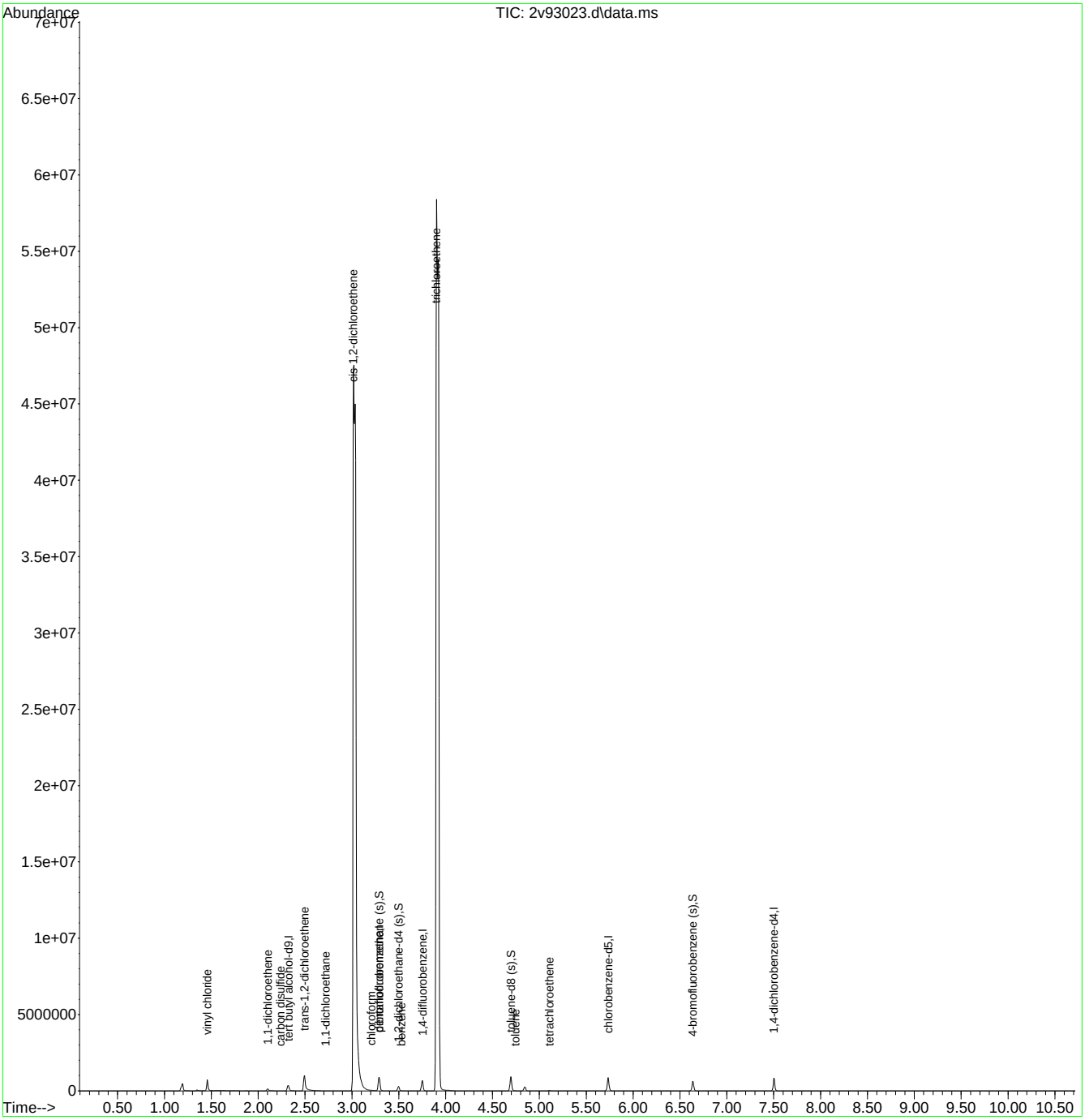
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 268613 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.291 | 168 | 275233 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 397139 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 371038 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.501 | 152 | 166265 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 140931 | 51.35 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.70% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 130557 | 46.36 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 92.72% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 453706 | 49.68 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.36% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 141332 | 47.61 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.22% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.456 | 62 | 414232 | 109.86 | ug/L | 99 |
| 17) 1,1-dichloroethene | 2.101 | 61 | 56388 | 16.82 | ug/L | 99 |
| 21) carbon disulfide | 2.237 | 76 | 3072 | 0.50 | ug/L | 83 |
| 25) trans-1,2-dichloroethene | 2.494 | 96 | 351541 | 148.52 | ug/L | 98 |
| 29) 1,1-dichloroethane | 2.719 | 63 | 1834 | 0.45 | ug/L | 81 |
| 36) cis-1,2-dichloroethene | 3.013 | 96 | 20614971 | 7534.66 | ug/L | 73 |
| 41) chloroform | 3.207 | 83 | 3941 | 0.80 | ug/L | 89 |
| 53) benzene | 3.527 | 78 | 2742 | 0.29 | ug/L | 90 |
| 59) trichloroethene | 3.899 | 95 | 18103585 | 6417.59 | ug/L | 93 |
| 74) toluene | 4.743 | 92 | 2046 | 0.33 | ug/L # | 83 |
| 79) tetrachloroethene | 5.105 | 164 | 3798 | 1.57 | ug/L | 91 |

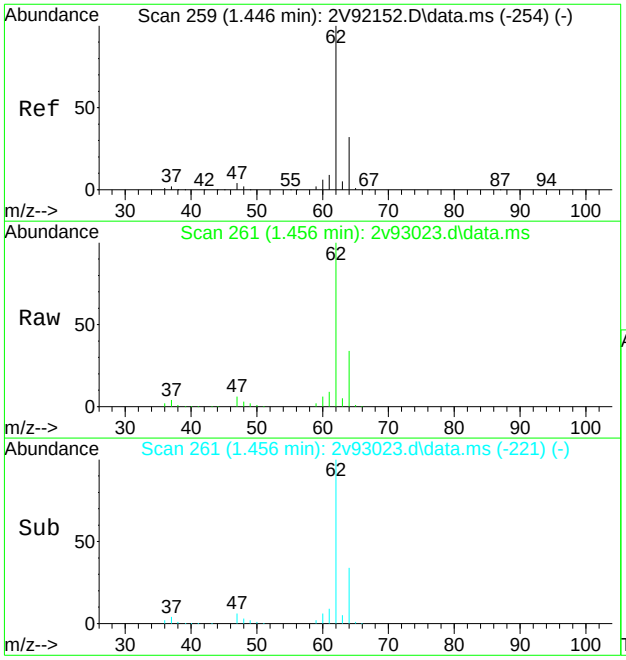
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93023.d
Acq On : 30 Sep 2022 6:32 am
Operator : KYLEM
Sample : jd52507-30 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 55 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 02:03:17 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

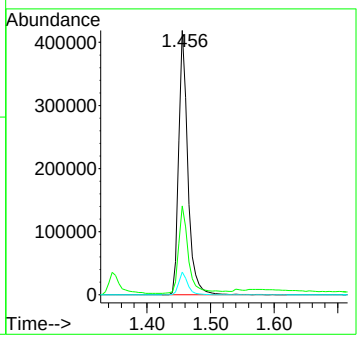


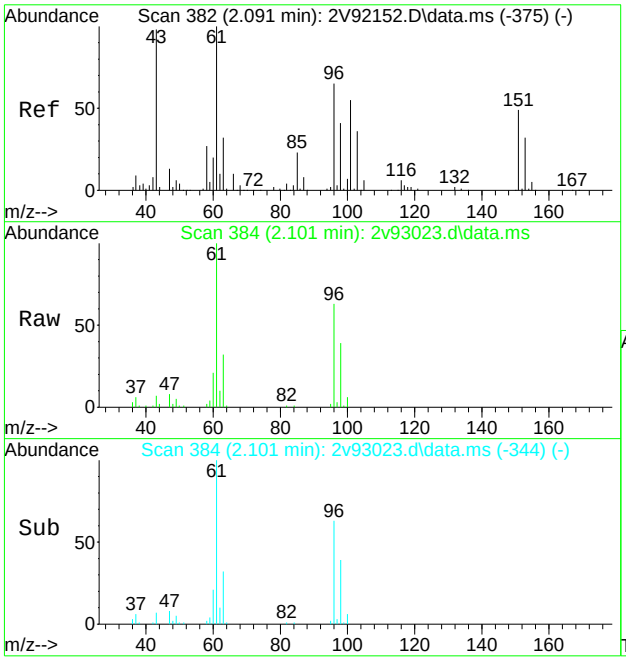



#9
vinyl chloride
Concen: 109.86 ug/L
RT: 1.456 min Scan# 261
Delta R.T. 0.010 min
Lab File: 2v93023.d
Acq: 30 Sep 2022 6:32 am

Tgt Ion: 62 Resp: 414232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.0 | 2.1 | 62.1 |
| 61 | 8.6 | 0.0 | 38.8 |

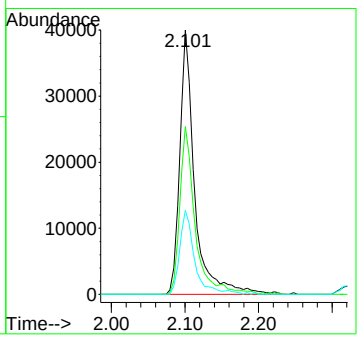


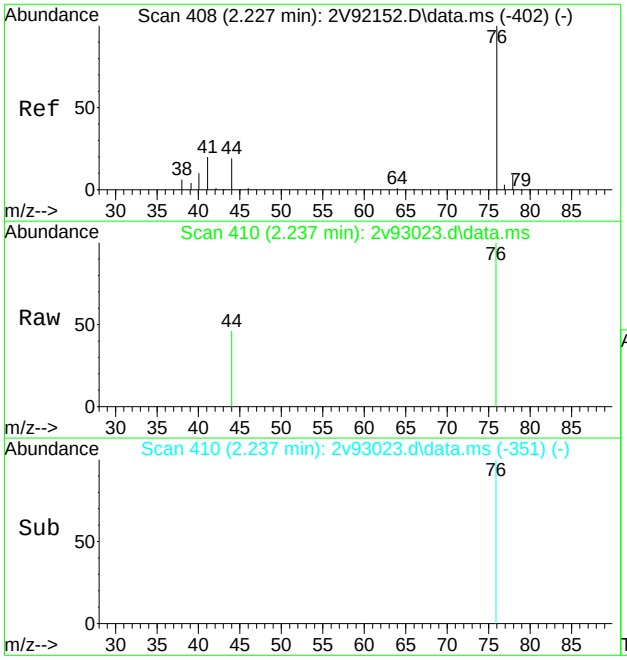




#17
1,1-dichloroethene
Concen: 16.82 ug/L
RT: 2.101 min Scan# 384
Delta R.T. 0.010 min
Lab File: 2v93023.d
Acq: 30 Sep 2022 6:32 am

Tgt Ion: 61 Resp: 56388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 63.5 | 34.7 | 94.7 |
| 63 | 31.8 | 2.3 | 62.3 |

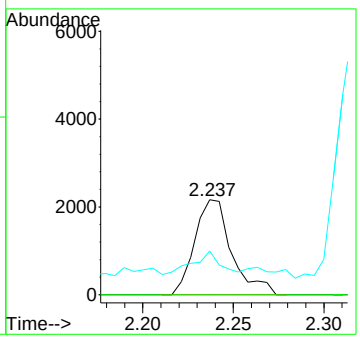


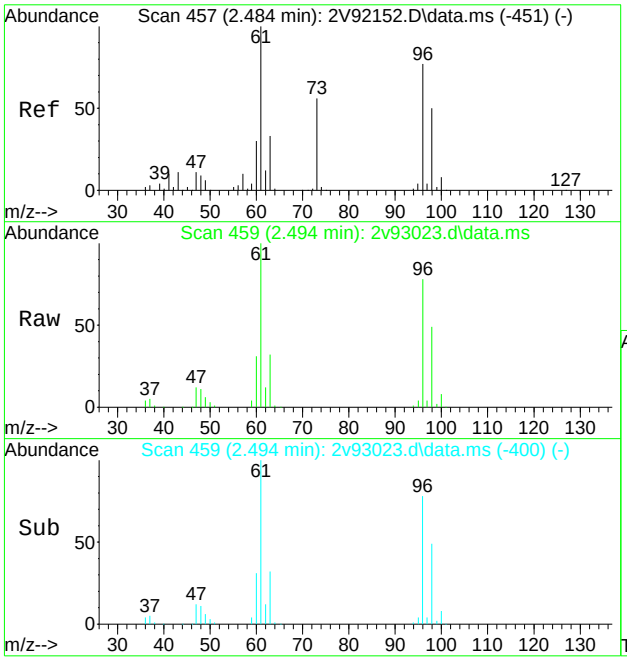



#21
carbon disulfide
Concen: 0.50 ug/L
RT: 2.237 min Scan# 410
Delta R.T. 0.010 min
Lab File: 2v93023.d
Acq: 30 Sep 2022 6:32 am

Tgt Ion: 76 Resp: 3072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 0.0 | 0.0 | 39.3 |
| 44 | 24.9 | 0.0 | 49.2 |

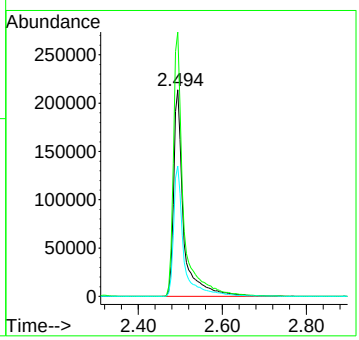


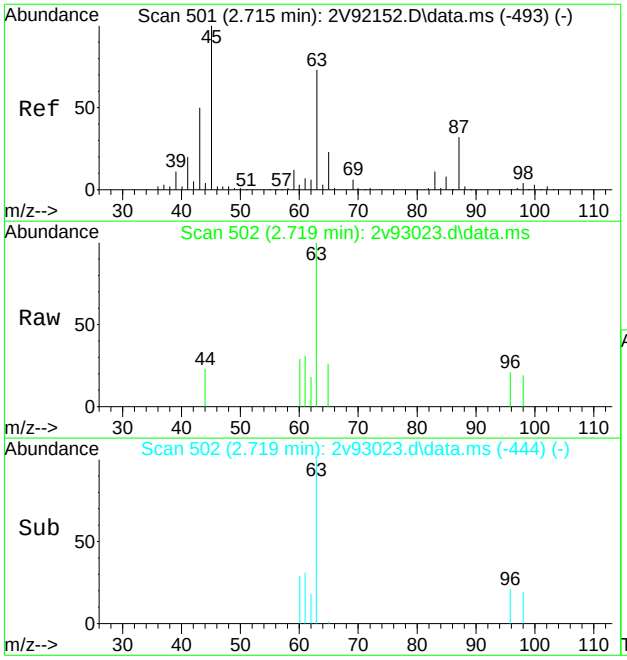




#25
trans-1,2-dichloroethene
Concen: 148.52 ug/L
RT: 2.494 min Scan# 459
Delta R.T. 0.010 min
Lab File: 2v93023.d
Acq: 30 Sep 2022 6:32 am

Tgt Ion: 96 Resp: 351541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 127.9 | 100.1 | 160.1 |
| 98 | 63.0 | 34.6 | 94.6 |

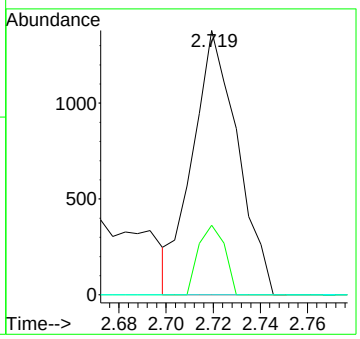


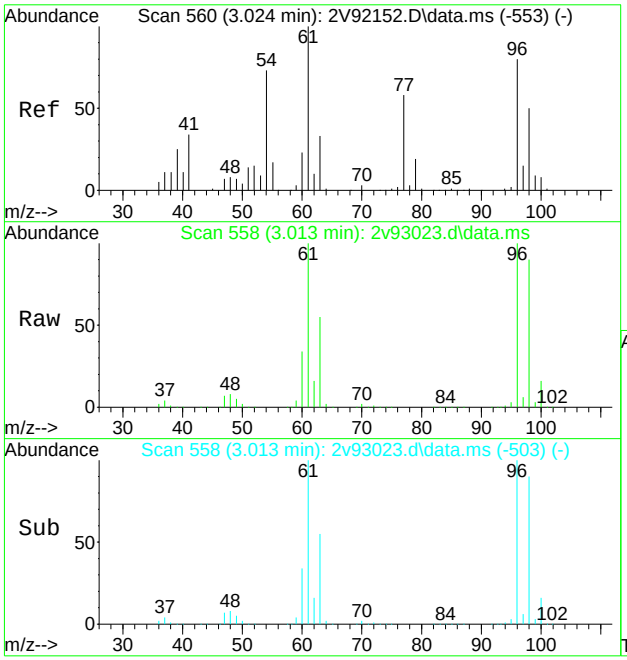



#29
1,1-dichloroethane
Concen: 0.45 ug/L
RT: 2.719 min Scan# 502
Delta R.T. 0.004 min
Lab File: 2v93023.d
Acq: 30 Sep 2022 6:32 am

Tgt Ion: 63 Resp: 1834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 26.4 | 2.2 | 62.2 |
| 83 | 0.0 | 0.0 | 45.7 |

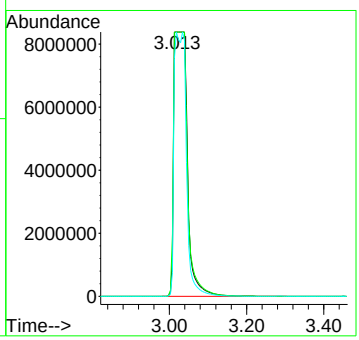


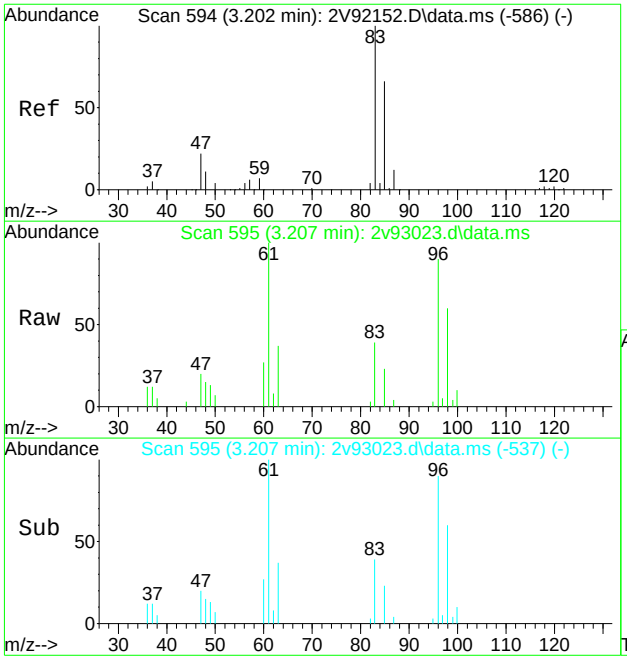




#36
cis-1,2-dichloroethene
Concen: 7534.66 ug/L
RT: 3.013 min Scan# 558
Delta R.T. -0.011 min
Lab File: 2v93023.d
Acq: 30 Sep 2022 6:32 am

Tgt Ion: 96 Resp:20614971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 100.0 | 95.8 | 155.8 |
| 98 | 90.0 | 32.6 | 92.6 |

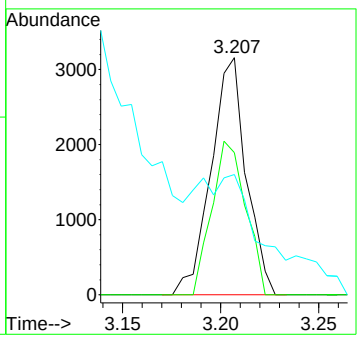


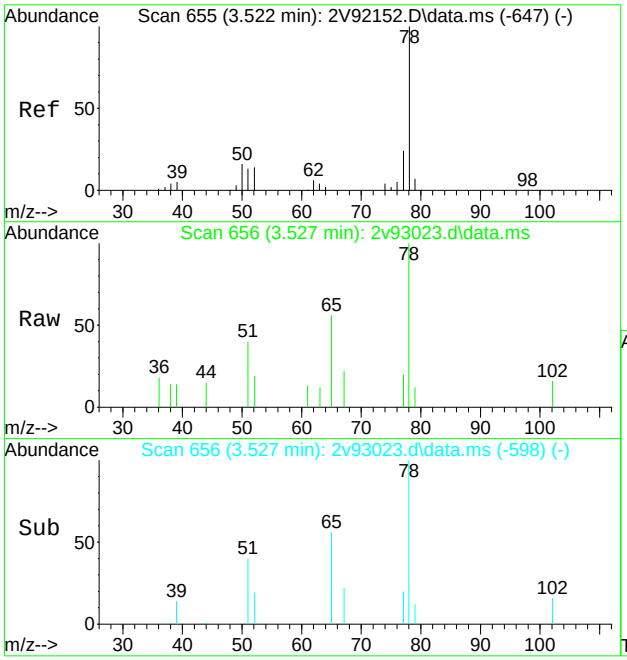



#41
chloroform
Concen: 0.80 ug/L
RT: 3.207 min Scan# 595
Delta R.T. 0.005 min
Lab File: 2v93023.d
Acq: 30 Sep 2022 6:32 am

Tgt Ion: 83 Resp: 3941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.0 | 35.9 | 95.9 |
| 47 | 36.1 | 0.0 | 56.5 |

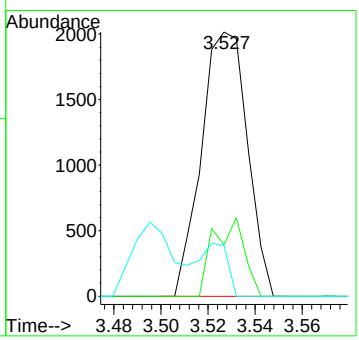


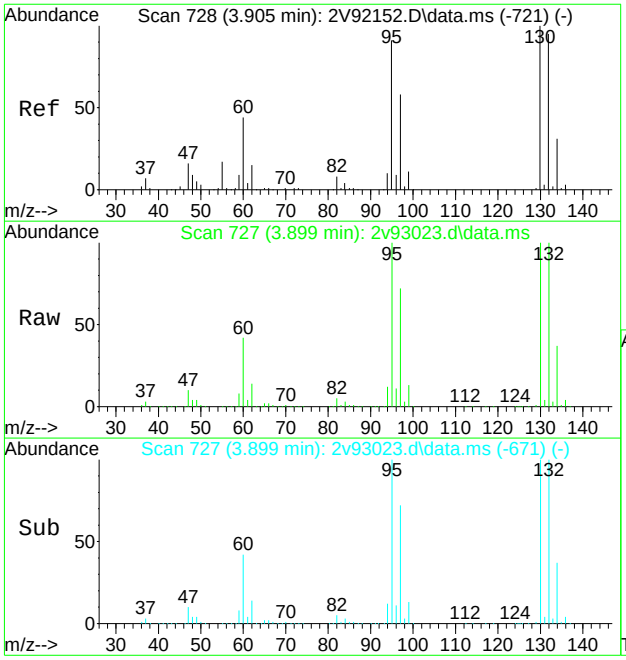




#53
benzene
Concen: 0.29 ug/L
RT: 3.527 min Scan# 656
Delta R.T. 0.005 min
Lab File: 2v93023.d
Acq: 30 Sep 2022 6:32 am

Tgt Ion: 78 Resp: 2742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 19.5 | 0.0 | 53.9 |
| 52 | 19.3 | 0.0 | 44.0 |

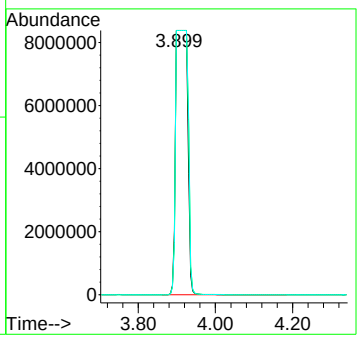


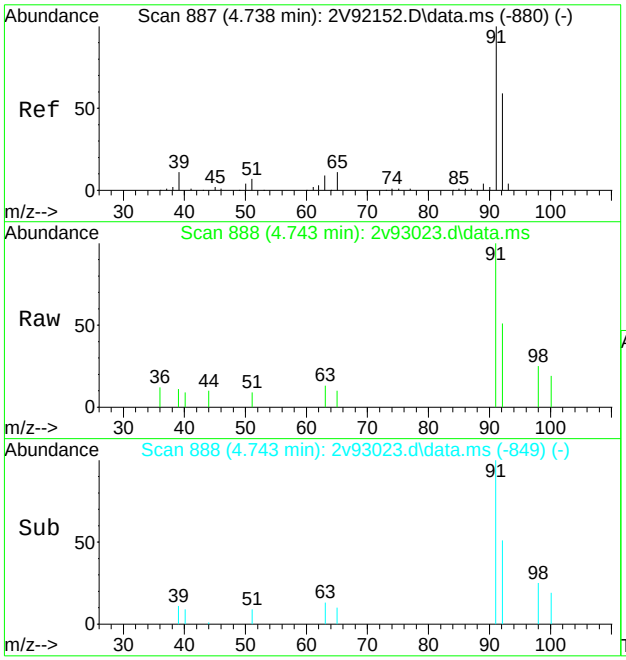



#59
trichloroethene
Concen: 6417.59 ug/L
RT: 3.899 min Scan# 727
Delta R.T. -0.006 min
Lab File: 2v93023.d
Acq: 30 Sep 2022 6:32 am

Tgt Ion: 95 Resp:18103585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 100.0 | 80.3 | 140.3 |
| 132 | 100.0 | 75.3 | 135.3 |

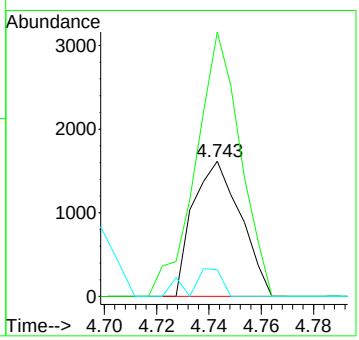


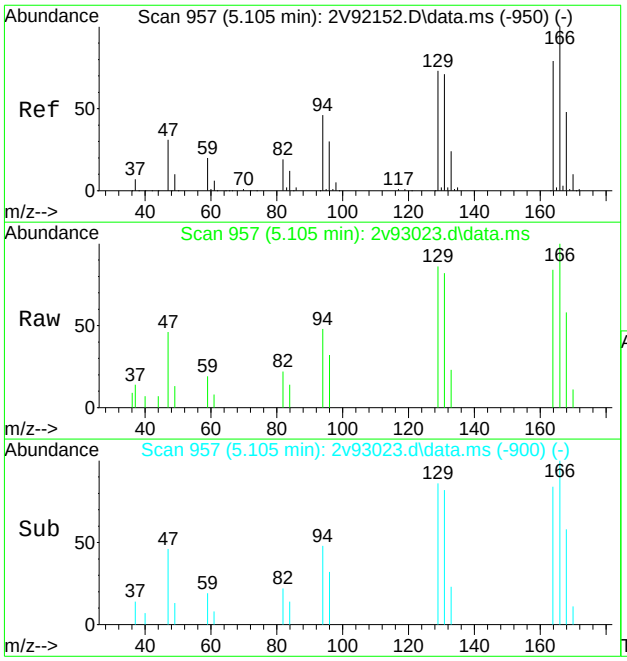




#74
toluene
Concen: 0.33 ug/L
RT: 4.743 min Scan# 888
Delta R.T. 0.005 min
Lab File: 2v93023.d
Acq: 30 Sep 2022 6:32 am

Tgt Ion: 92 Resp: 2046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 195.9 | 150.3 | 190.3# |
| 65 | 19.8 | 0.0 | 39.6 |

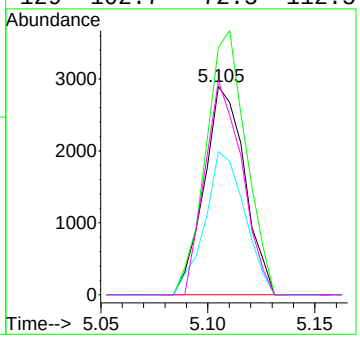





#79
tetrachloroethene
Concen: 1.57 ug/L
RT: 5.105 min Scan# 957
Delta R.T. -0.000 min
Lab File: 2v93023.d
Acq: 30 Sep 2022 6:32 am

Tgt Ion:164 Resp: 3798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 118.8 | 96.4 | 156.4 |
| 168 | 68.8 | 30.9 | 90.9 |
| 129 | 102.7 | 72.5 | 112.5 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-3-22\v2v3782- due today\
Data File : 2v93131.d
Acq On : 3 Oct 2022 2:14 pm
Operator : taylors
Sample : jd52507-30
Misc : MS62506,V2V3782,5,,,,20
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 03 16:26:40 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

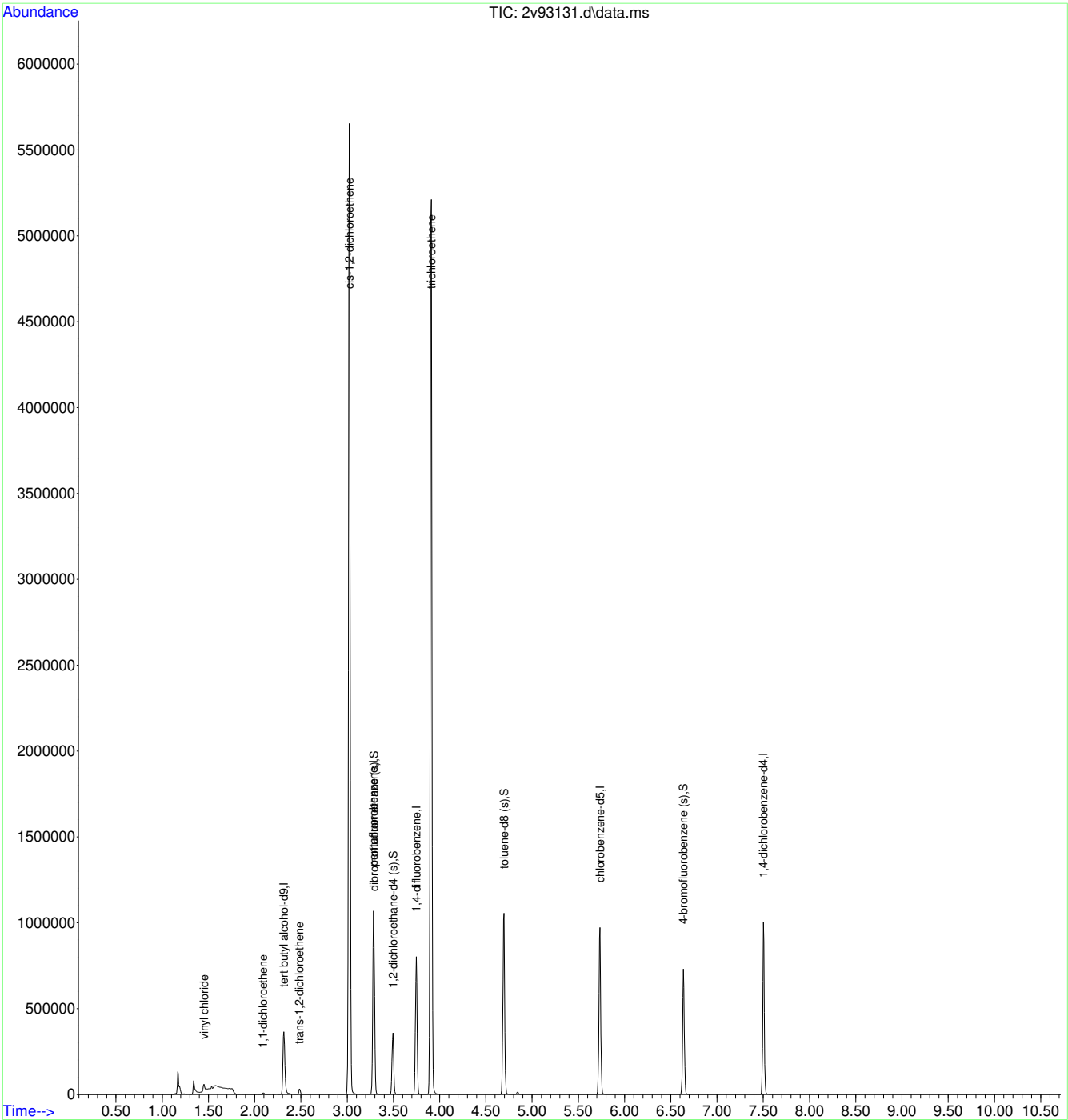
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 285596 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 309605 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 453219 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 418144 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.501 | 152 | 183649 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 163101 | 52.83 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 105.66% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.496 | 65 | 157676 | 49.07 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.14% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 525130 | 51.02 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.04% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 161690 | 49.31 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.62% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.451 | 62 | 22997 | 5.42 | ug/L | 73 |
| 17) 1,1-dichloroethene | 2.090 | 61 | 2491 | 0.66 | ug/L | 98 |
| 25) trans-1,2-dichloroethene | 2.484 | 96 | 6953 | 2.61 | ug/L | 95 |
| 36) cis-1,2-dichloroethene | 3.024 | 96 | 1497626 | 486.61 | ug/L | 93 |
| 59) trichloroethene | 3.910 | 95 | 1024819 | 318.34 | ug/L | 96 |

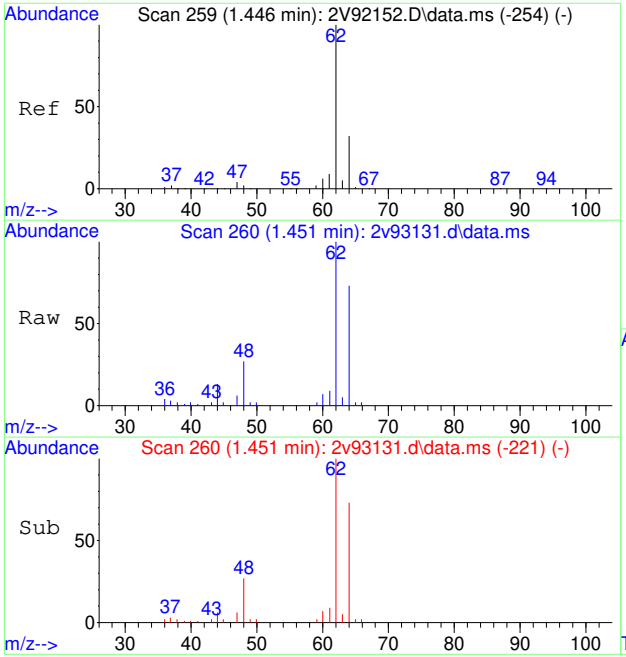
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-3-22\v2v3782- due today\
Data File : 2v93131.d
Acq On : 3 Oct 2022 2:14 pm
Operator : taylors
Sample : jd52507-30
Misc : MS62506,V2V3782,5,,,,20
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 03 16:26:40 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

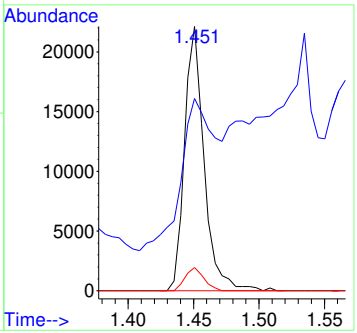


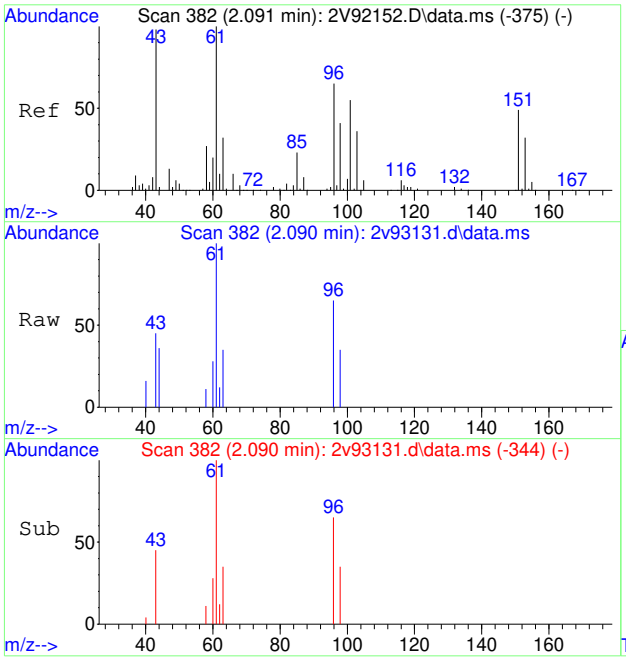



#9
vinyl chloride
Concen: 5.42 ug/L
RT: 1.451 min Scan# 260
Delta R.T. 0.005 min
Lab File: 2v93131.d
Acq: 3 Oct 2022 2:14 pm

Tgt Ion: 62 Resp: 22997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 51.6 | 2.1 | 62.1 |
| 61 | 8.8 | 0.0 | 38.8 |

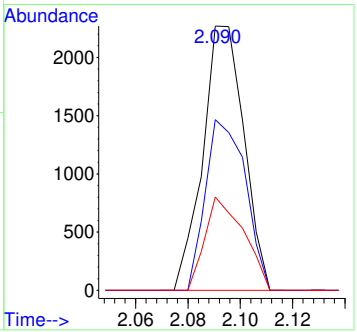


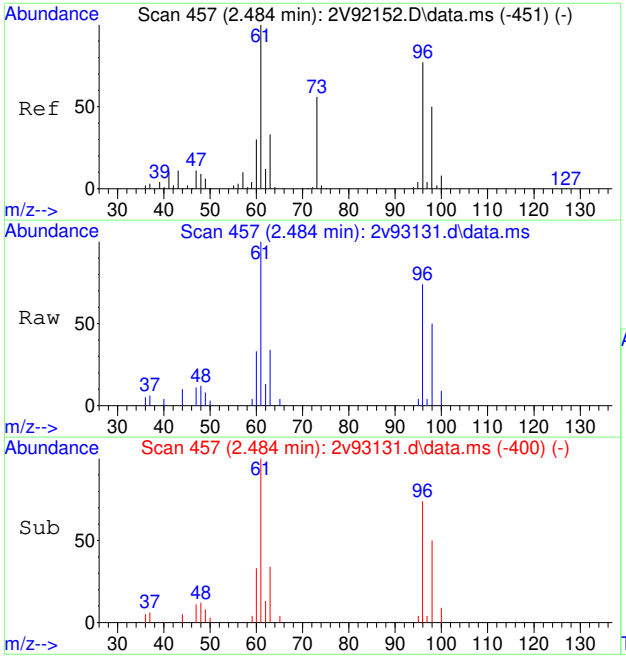




#17
1,1-dichloroethene
Concen: 0.66 ug/L
RT: 2.090 min Scan# 382
Delta R.T. -0.001 min
Lab File: 2v93131.d
Acq: 3 Oct 2022 2:14 pm

Tgt Ion: 61 Resp: 2491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 64.5 | 34.7 | 94.7 |
| 63 | 35.3 | 2.3 | 62.3 |

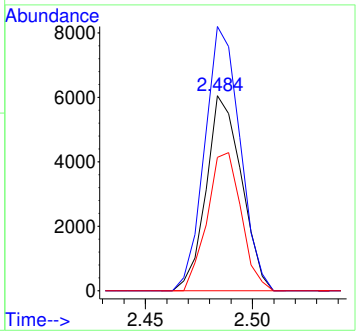


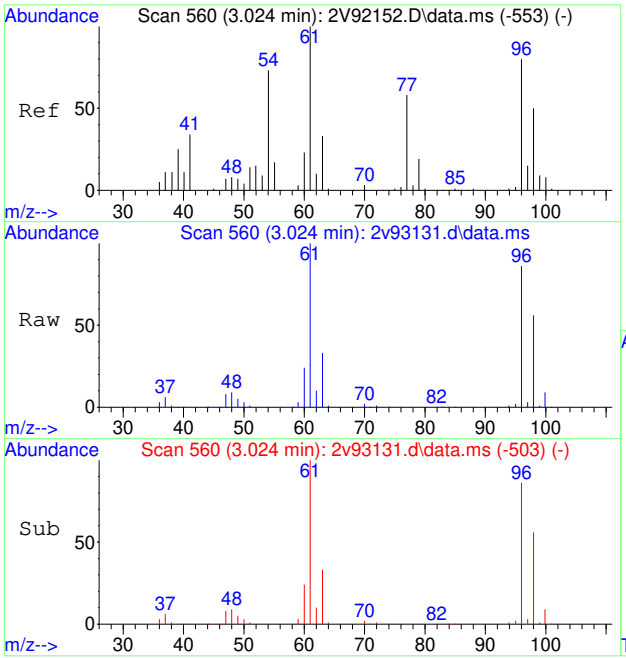



#25
trans-1,2-dichloroethene
Concen: 2.61 ug/L
RT: 2.484 min Scan# 457
Delta R.T. -0.000 min
Lab File: 2v93131.d
Acq: 3 Oct 2022 2:14 pm

Tgt Ion: 96 Resp: 6953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.5 | 100.1 | 160.1 |
| 98 | 68.4 | 34.6 | 94.6 |

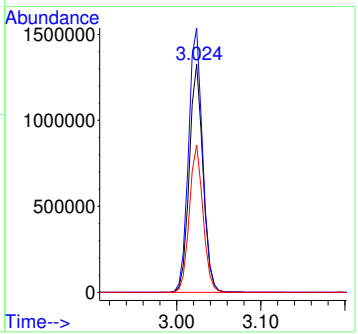


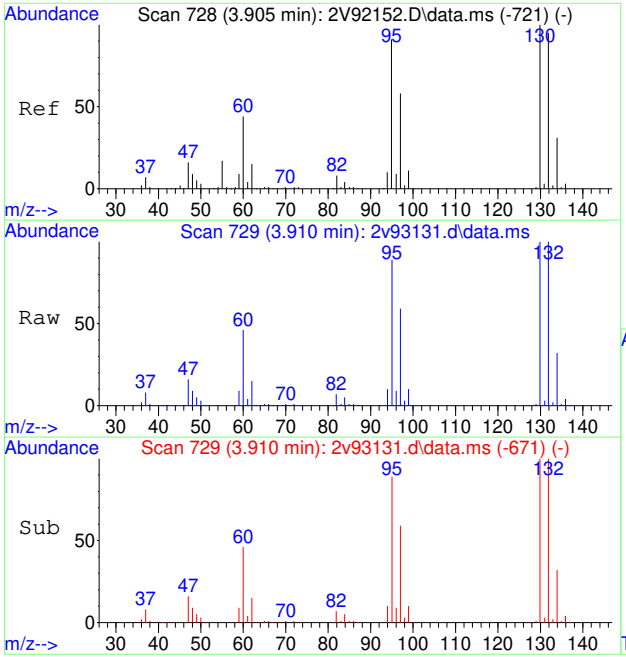




#36
cis-1,2-dichloroethene
Concen: 486.61 ug/L
RT: 3.024 min Scan# 560
Delta R.T. -0.000 min
Lab File: 2v93131.d
Acq: 3 Oct 2022 2:14 pm

Tgt Ion: 96 Resp: 1497626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 115.9 | 95.8 | 155.8 |
| 98 | 64.7 | 32.6 | 92.6 |

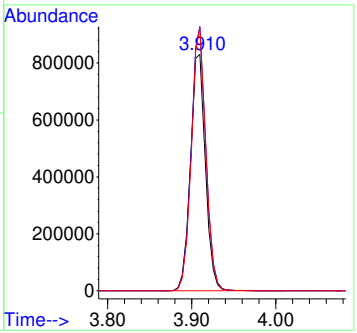





#59
trichloroethene
Concen: 318.34 ug/L
RT: 3.910 min Scan# 729
Delta R.T. 0.005 min
Lab File: 2v93131.d
Acq: 3 Oct 2022 2:14 pm

Tgt Ion: 95 Resp: 1024819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 111.8 | 80.3 | 140.3 |
| 132 | 111.4 | 75.3 | 135.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-05-22\v2v3782_10042022kd\
Data File : 2v93142.d
Acq On : 3 Oct 2022 6:30 pm
Operator : taylors
Sample : jd52507-30 Inst : MS2V
Misc : MS62506,V2V3782,5,,,,200
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 04 22:27:16 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

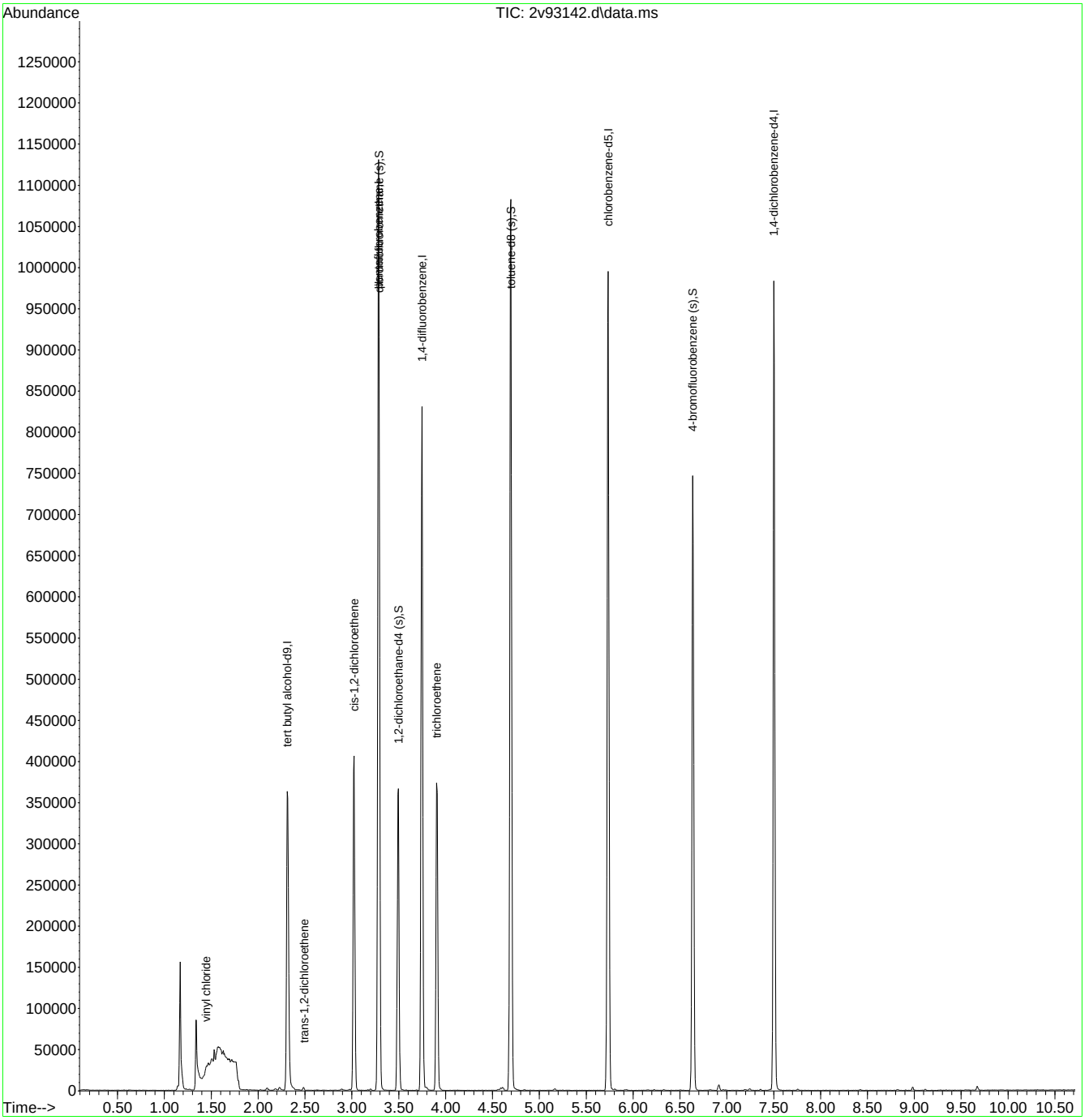
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.311 | 65 | 286667 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 328446 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 471768 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 427614 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.501 | 152 | 186810 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 173605 | 53.01 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.02% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.496 | 65 | 167247 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.00% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 550960 | 52.35 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.70% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 167143 | 50.11 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.22% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.446 | 62 | 2282 | 0.51 | ug/L | # 1 |
| 25) trans-1,2-dichloroethene | 2.489 | 96 | 858 | 0.30 | ug/L | 84 |
| 36) cis-1,2-dichloroethene | 3.024 | 96 | 116666 | 35.73 | ug/L | 95 |
| 59) trichloroethene | 3.905 | 95 | 79203 | 23.64 | ug/L | 98 |

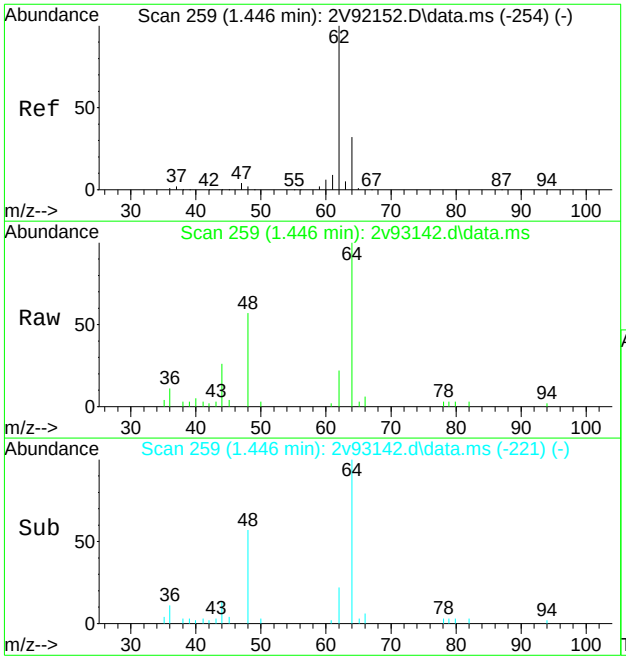
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-05-22\v2v3782_10042022kd\
Data File : 2v93142.d
Acq On : 3 Oct 2022 6:30 pm
Operator : taylors
Sample : jd52507-30 Inst : MS2V
Misc : MS62506,V2V3782,5,,,,200
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 04 22:27:16 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

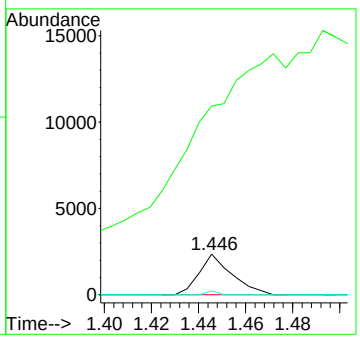


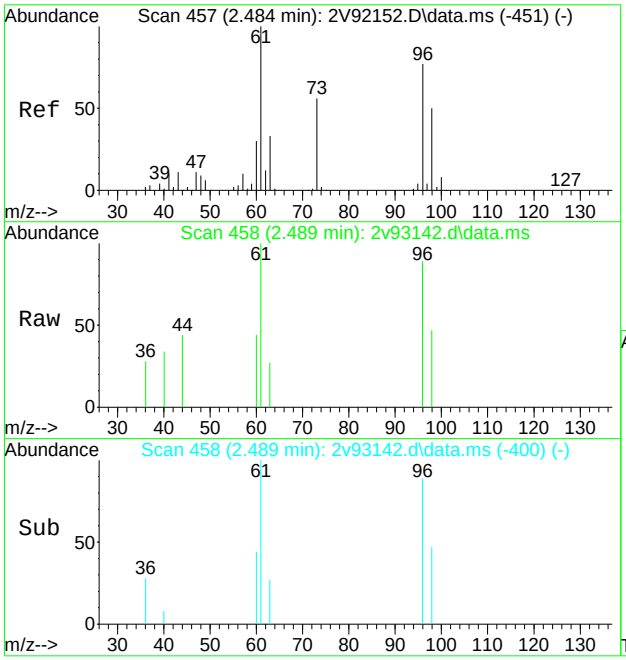



#9
vinyl chloride
Concen: 0.51 ug/L
RT: 1.446 min Scan# 259
Delta R.T. -0.000 min
Lab File: 2v93142.d
Acq: 3 Oct 2022 6:30 pm

Tgt Ion: 62 Resp: 2282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 207.1 | 2.1 | 62.1# |
| 61 | 10.0 | 0.0 | 38.8 |

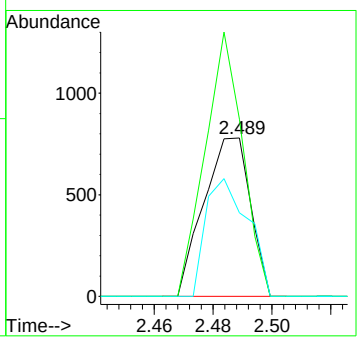


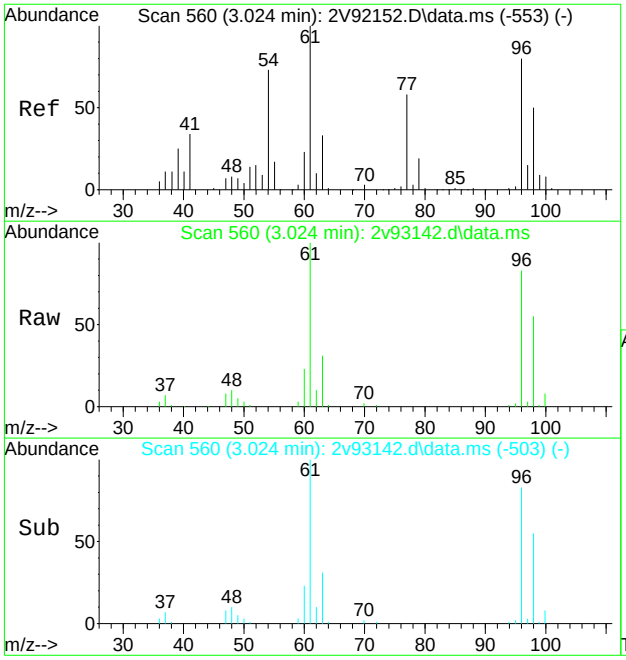




#25
trans-1,2-dichloroethene
Concen: 0.30 ug/L
RT: 2.489 min Scan# 458
Delta R.T. 0.005 min
Lab File: 2v93142.d
Acq: 3 Oct 2022 6:30 pm

Tgt Ion: 96 Resp: 858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 111.8 | 100.1 | 160.1 |
| 98 | 52.7 | 34.6 | 94.6 |

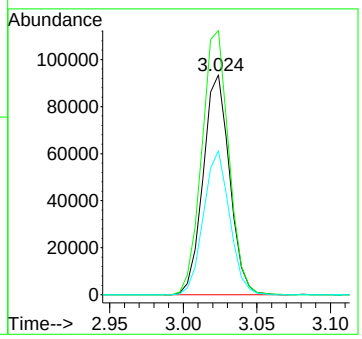


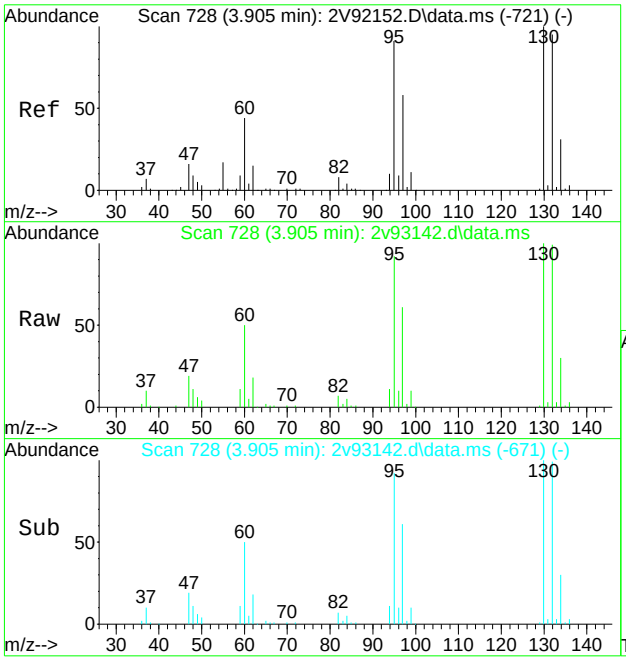



#36
cis-1,2-dichloroethene
Concen: 35.73 ug/L
RT: 3.024 min Scan# 560
Delta R.T. -0.000 min
Lab File: 2v93142.d
Acq: 3 Oct 2022 6:30 pm

Tgt Ion: 96 Resp: 116666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 120.2 | 95.8 | 155.8 |
| 98 | 65.5 | 32.6 | 92.6 |

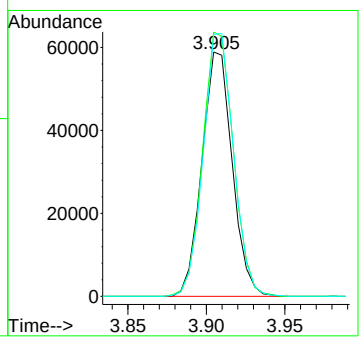



#59
trichloroethene
Concen: 23.64 ug/L
RT: 3.905 min Scan# 728
Delta R.T. -0.000 min
Lab File: 2v93142.d
Acq: 3 Oct 2022 6:30 pm

Tgt Ion: 95 Resp: 79203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 108.2 | 80.3 | 140.3 |
| 132 | 107.3 | 75.3 | 135.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93024.d
Acq On : 30 Sep 2022 6:55 am
Operator : KYLEM
Sample : jd52507-31 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 56 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 02:04:33 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

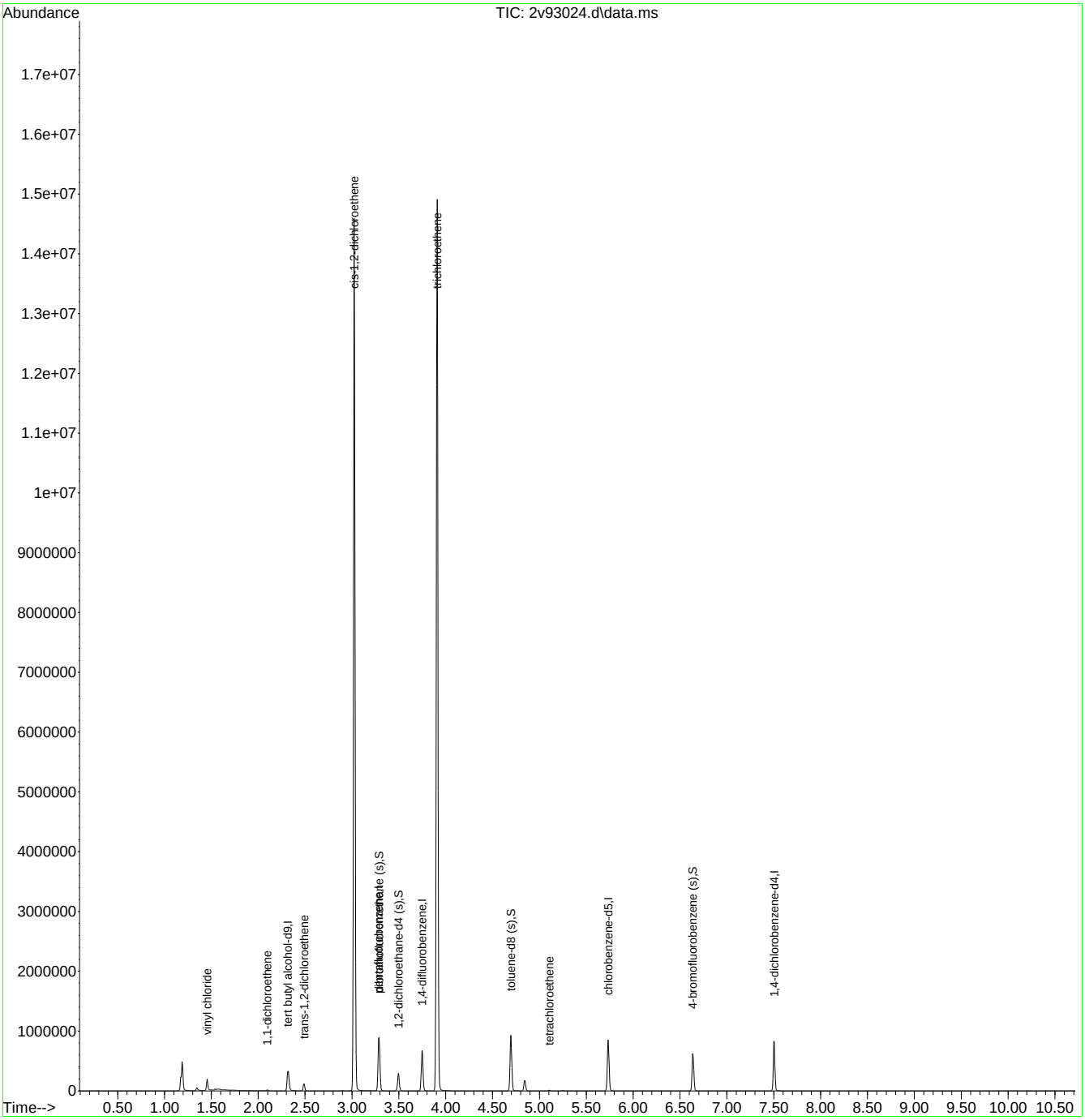
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 261746 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.285 | 168 | 282017 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 399087 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 367940 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 164949 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 137624 | 48.94 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.88% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 128845 | 45.53 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 91.06% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 450620 | 49.76 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.52% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 136217 | 46.25 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.50% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.456 | 62 | 107093 | 27.72 | ug/L | 96 |
| 17) 1,1-dichloroethene | 2.095 | 61 | 5081 | 1.48 | ug/L | 91 |
| 25) trans-1,2-dichloroethene | 2.489 | 96 | 28273 | 11.66 | ug/L | 96 |
| 36) cis-1,2-dichloroethene | 3.023 | 96 | 3720654 | 1327.17 | ug/L | 91 |
| 59) trichloroethene | 3.909 | 95 | 2649826 | 934.76 | ug/L | 96 |
| 79) tetrachloroethene | 5.105 | 164 | 1937 | 0.81 | ug/L | 99 |

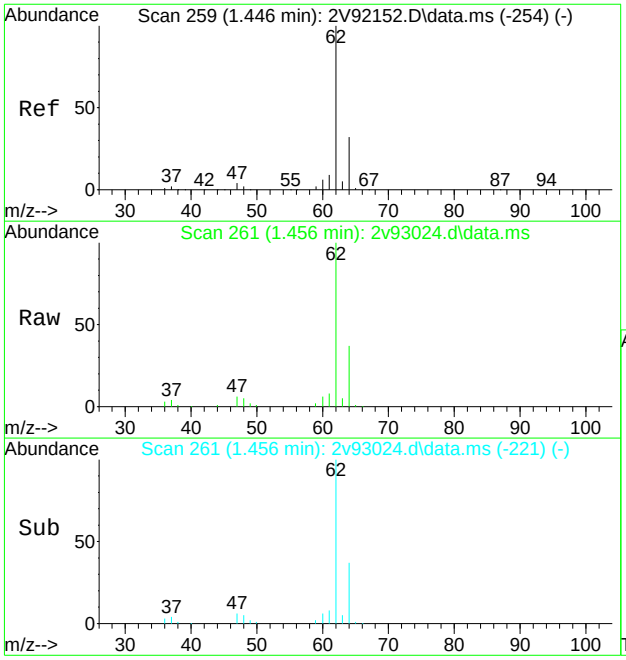
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93024.d
Acq On : 30 Sep 2022 6:55 am
Operator : KYLEM
Sample : jd52507-31 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 56 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 02:04:33 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

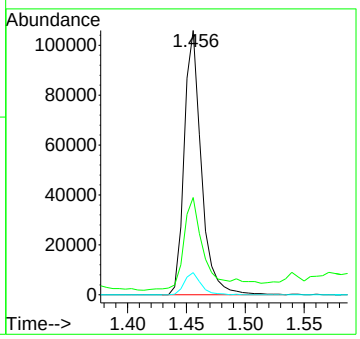


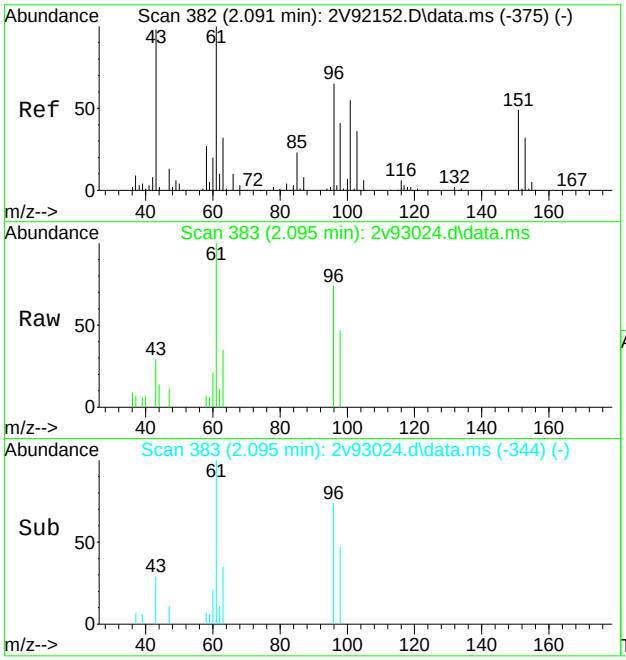



#9
vinyl chloride
Concen: 27.72 ug/L
RT: 1.456 min Scan# 261
Delta R.T. 0.010 min
Lab File: 2v93024.d
Acq: 30 Sep 2022 6:55 am

Tgt Ion: 62 Resp: 107093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 34.6 | 2.1 | 62.1 |
| 61 | 8.4 | 0.0 | 38.8 |

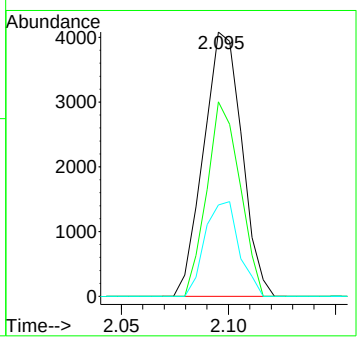


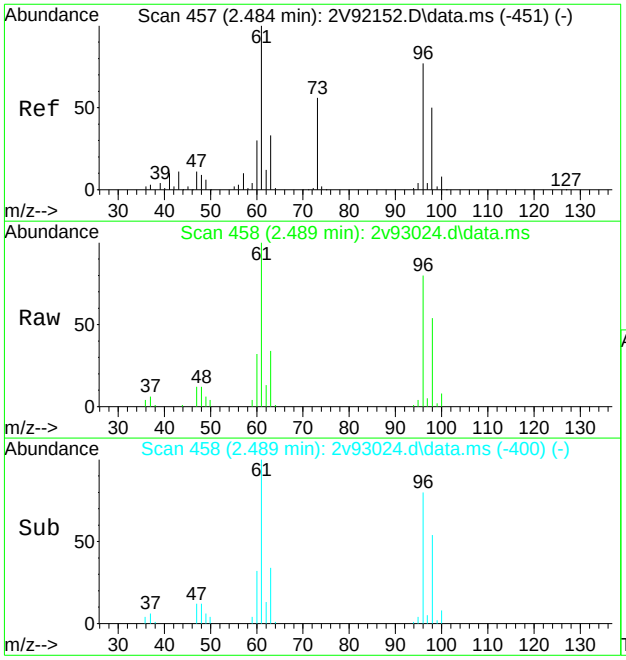




#17
1,1-dichloroethene
Concen: 1.48 ug/L
RT: 2.095 min Scan# 383
Delta R.T. 0.004 min
Lab File: 2v93024.d
Acq: 30 Sep 2022 6:55 am

Tgt Ion: 61 Resp: 5081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 73.6 | 34.7 | 94.7 |
| 63 | 34.6 | 2.3 | 62.3 |

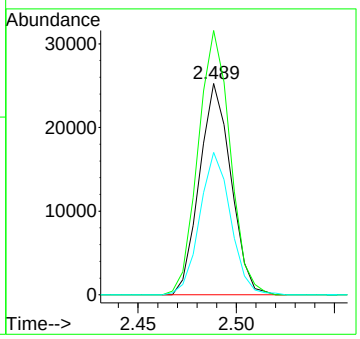


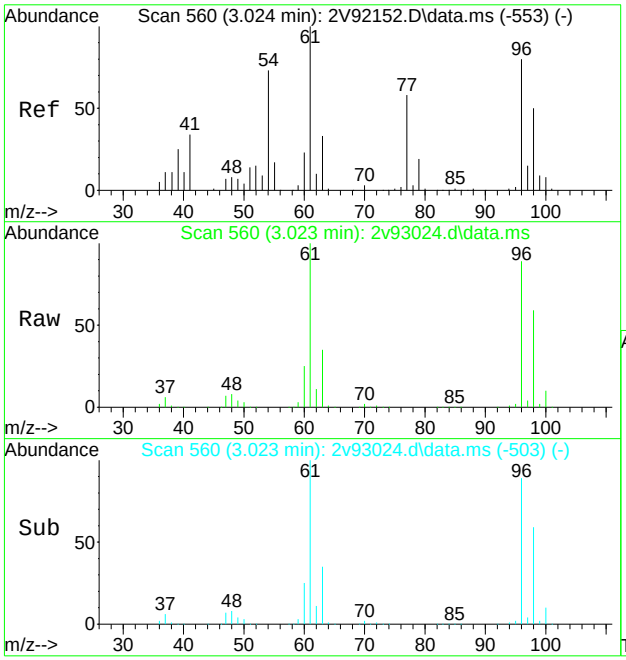



#25
trans-1,2-dichloroethene
Concen: 11.66 ug/L
RT: 2.489 min Scan# 458
Delta R.T. 0.005 min
Lab File: 2v93024.d
Acq: 30 Sep 2022 6:55 am

Tgt Ion: 96 Resp: 28273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 125.1 | 100.1 | 160.1 |
| 98 | 67.4 | 34.6 | 94.6 |

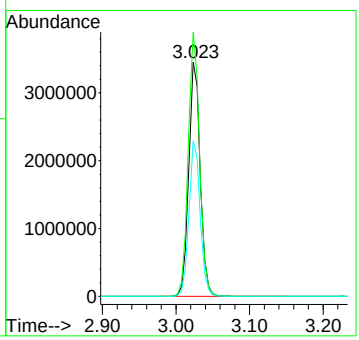


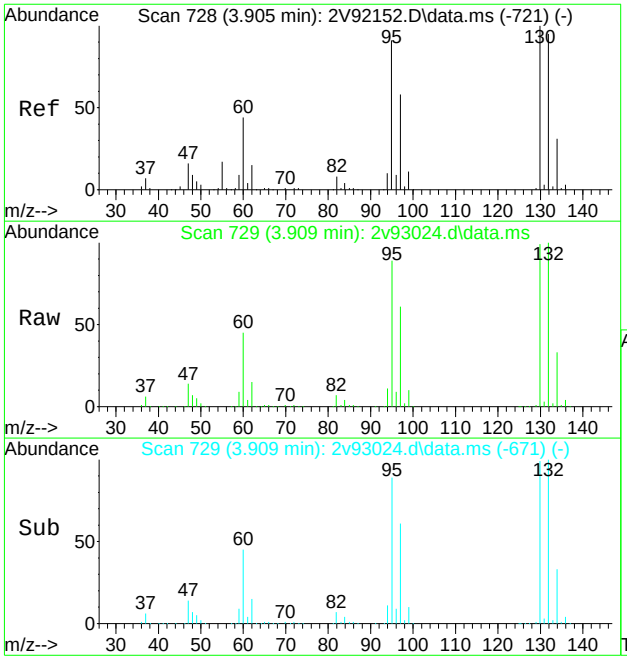




#36
cis-1,2-dichloroethene
Concen: 1327.17 ug/L
RT: 3.023 min Scan# 560
Delta R.T. -0.001 min
Lab File: 2v93024.d
Acq: 30 Sep 2022 6:55 am

Tgt Ion: 96 Resp: 3720654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 112.8 | 95.8 | 155.8 |
| 98 | 66.4 | 32.6 | 92.6 |

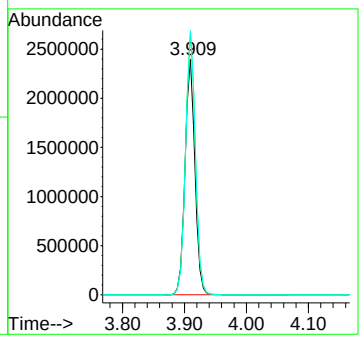


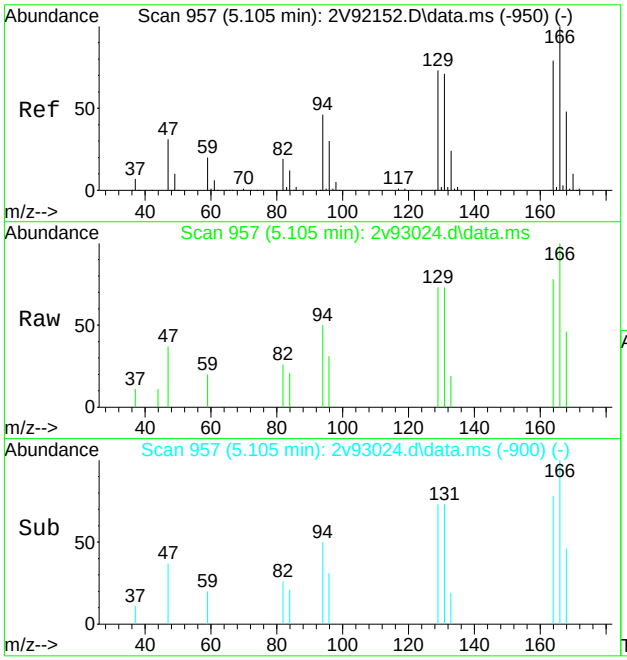



#59
trichloroethene
Concen: 934.76 ug/L
RT: 3.909 min Scan# 729
Delta R.T. 0.004 min
Lab File: 2v93024.d
Acq: 30 Sep 2022 6:55 am

Tgt Ion: 95 Resp: 2649826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 111.7 | 80.3 | 140.3 |
| 132 | 112.3 | 75.3 | 135.3 |

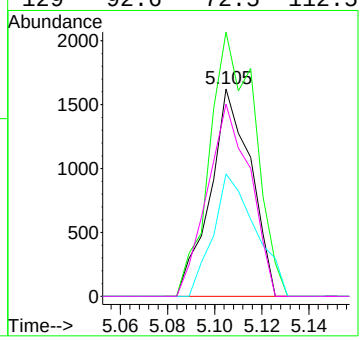



#79
tetrachloroethene
Concen: 0.81 ug/L
RT: 5.105 min Scan# 957
Delta R.T. -0.000 min
Lab File: 2v93024.d
Acq: 30 Sep 2022 6:55 am

Tgt Ion:164 Resp: 1937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.4 | 96.4 | 156.4 |
| 168 | 59.1 | 30.9 | 90.9 |
| 129 | 92.6 | 72.5 | 112.5 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-3-22\v2v3782- due today\
Data File : 2v93130.d
Acq On : 3 Oct 2022 1:51 pm
Operator : taylors
Sample : jd52507-31
Misc : MS62506,V2V3782,5,,,,20
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 03 16:43:18 2022
Quant Method : C:\msdchem\1\methods\m2v3747.m
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

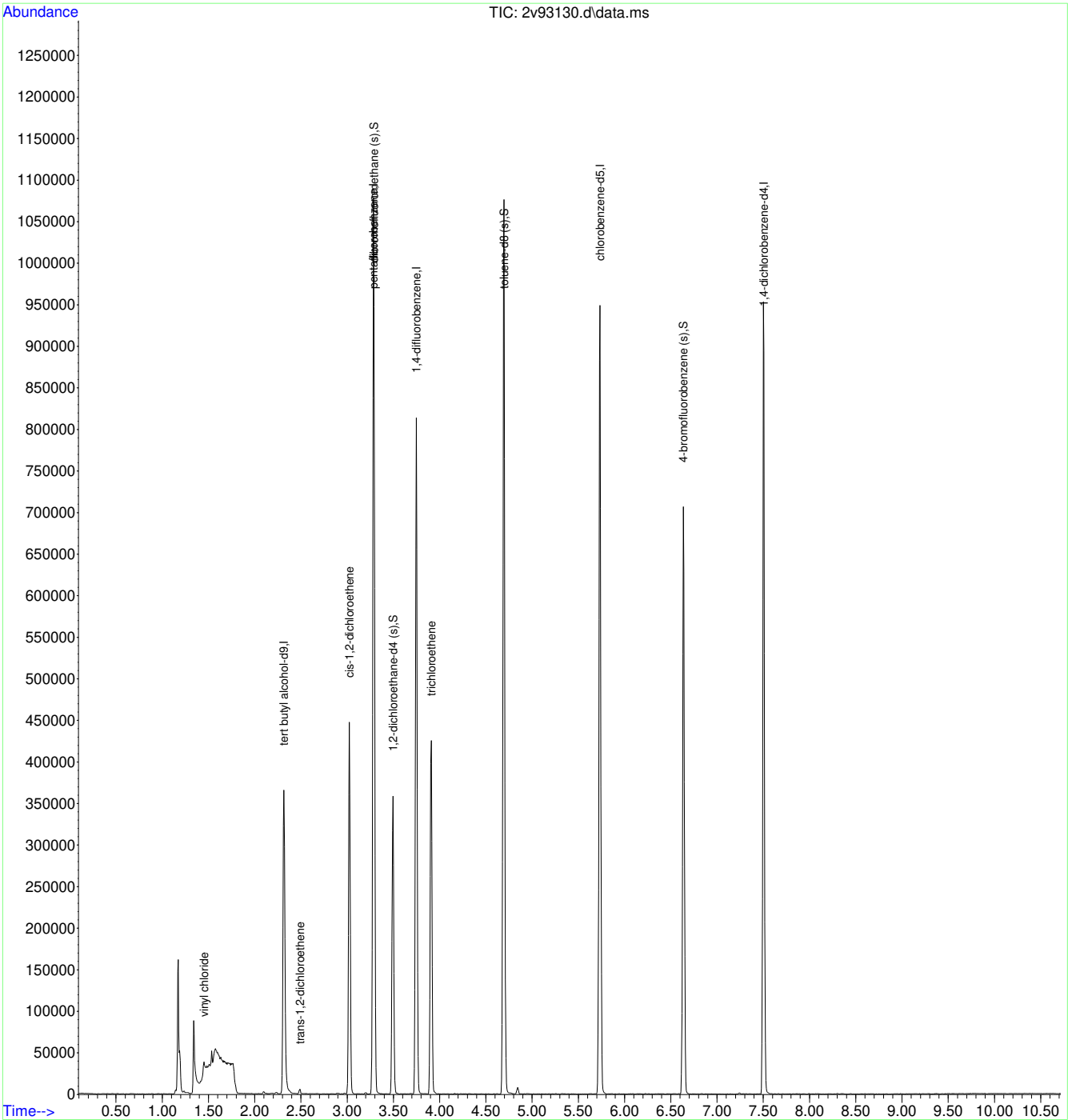
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 282607 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 314841 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 456347 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 409859 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 182303 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 164774 | 52.48 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.96% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 158664 | 49.04 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.08% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 530939 | 52.63 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 105.26% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 155645 | 47.82 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.64% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.451 | 62 | 7110 | 1.65 | ug/L | # 13 |
| 25) trans-1,2-dichloroethene | 2.489 | 96 | 1394 | 0.51 | ug/L | 82 |
| 36) cis-1,2-dichloroethene | 3.024 | 96 | 124375 | 39.74 | ug/L | 96 |
| 59) trichloroethene | 3.910 | 95 | 89795 | 27.70 | ug/L | 96 |

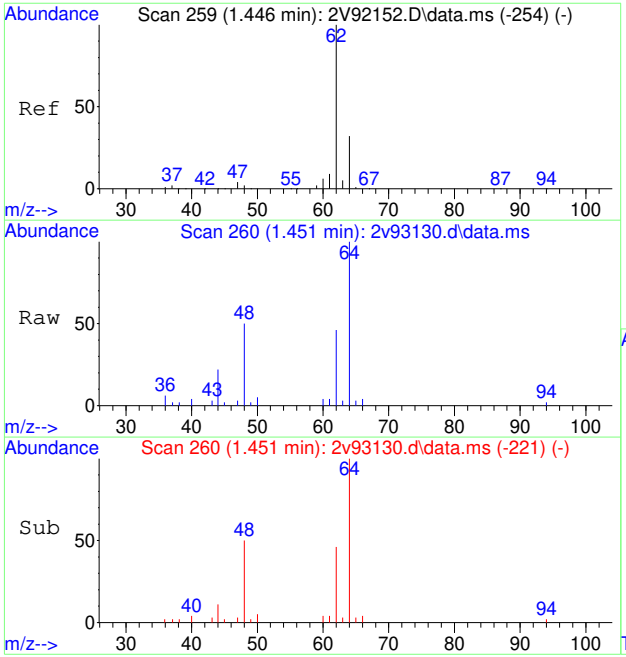
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-3-22\v2v3782- due today\
Data File : 2v93130.d
Acq On : 3 Oct 2022 1:51 pm
Operator : taylors
Sample : jd52507-31
Misc : MS62506,V2V3782,5,,,,20
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 03 16:43:18 2022
Quant Method : C:\msdchem\1\methods\m2v3747.m
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

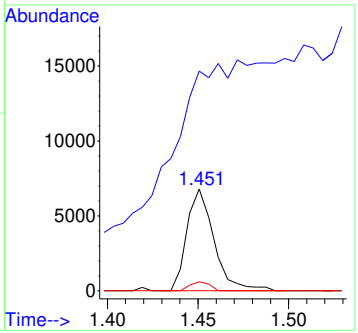


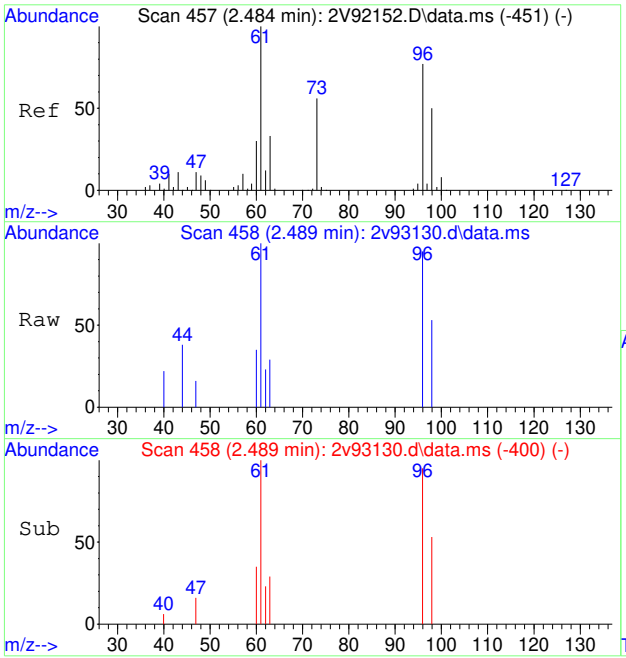



#9
vinyl chloride
Concen: 1.65 ug/L
RT: 1.451 min Scan# 260
Delta R.T. 0.005 min
Lab File: 2v93130.d
Acq: 3 Oct 2022 1:51 pm

Tgt Ion: 62 Resp: 7110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 94.2 | 2.1 | 62.1# |
| 61 | 8.9 | 0.0 | 38.8 |

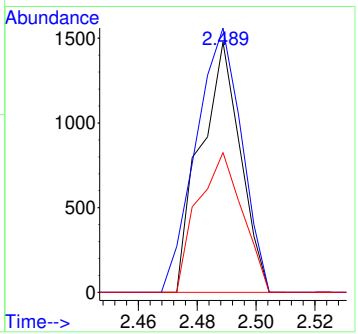


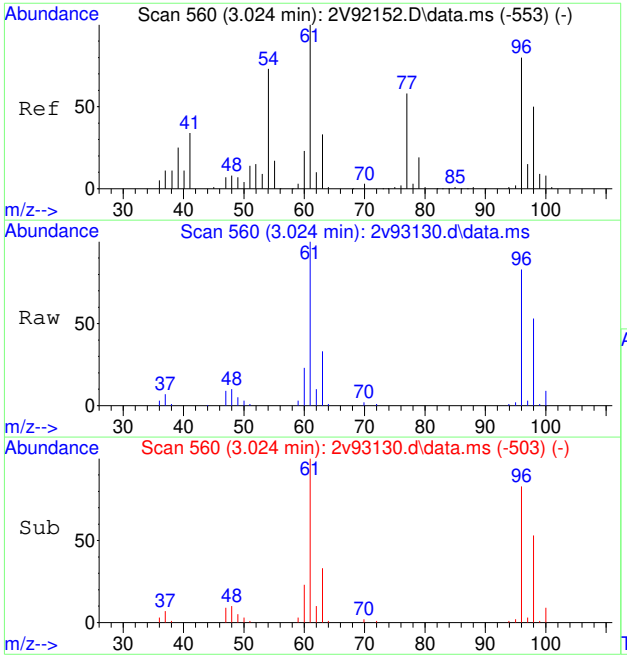




#25
trans-1,2-dichloroethene
Concen: 0.51 ug/L
RT: 2.489 min Scan# 458
Delta R.T. 0.005 min
Lab File: 2v93130.d
Acq: 3 Oct 2022 1:51 pm

Tgt Ion: 96 Resp: 1394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 105.6 | 100.1 | 160.1 |
| 98 | 55.9 | 34.6 | 94.6 |

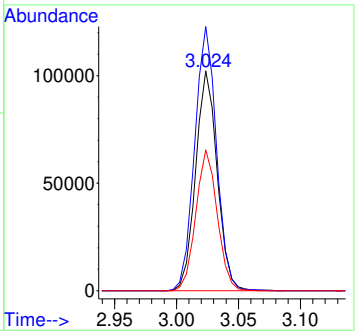


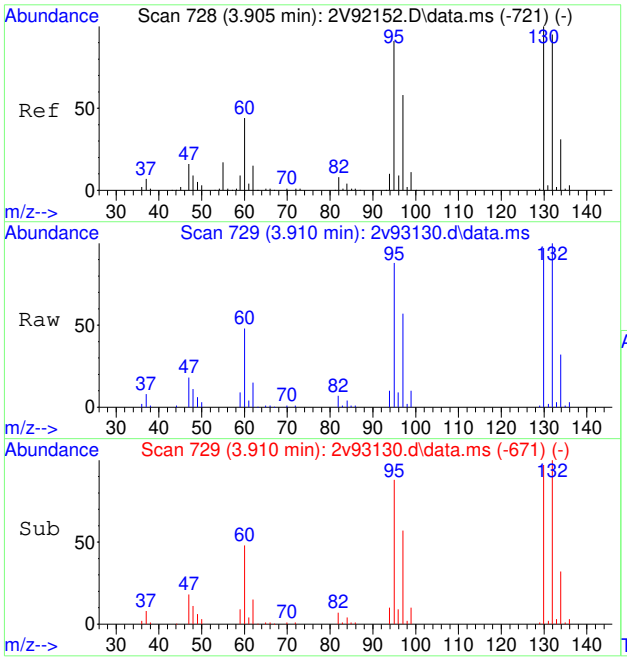



#36
cis-1,2-dichloroethene
Concen: 39.74 ug/L
RT: 3.024 min Scan# 560
Delta R.T. -0.000 min
Lab File: 2v93130.d
Acq: 3 Oct 2022 1:51 pm

Tgt Ion: 96 Resp: 124375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 120.1 | 95.8 | 155.8 |
| 98 | 64.0 | 32.6 | 92.6 |

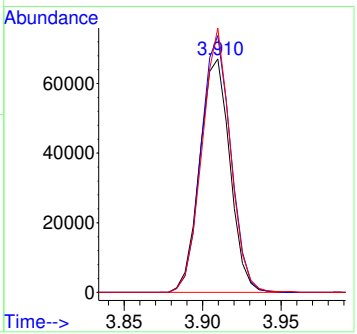



#59
trichloroethene
Concen: 27.70 ug/L
RT: 3.910 min Scan# 729
Delta R.T. 0.005 min
Lab File: 2v93130.d
Acq: 3 Oct 2022 1:51 pm

Tgt Ion: 95 Resp: 89795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 110.0 | 80.3 | 140.3 |
| 132 | 113.3 | 75.3 | 135.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-4-22\v2v3782-whole batch\
Data File : 2v93136.d
Acq On : 3 Oct 2022 4:10 pm
Operator : taylors
Sample : jd52507-32
Misc : MS62506,V2V3782,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 04 09:22:29 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

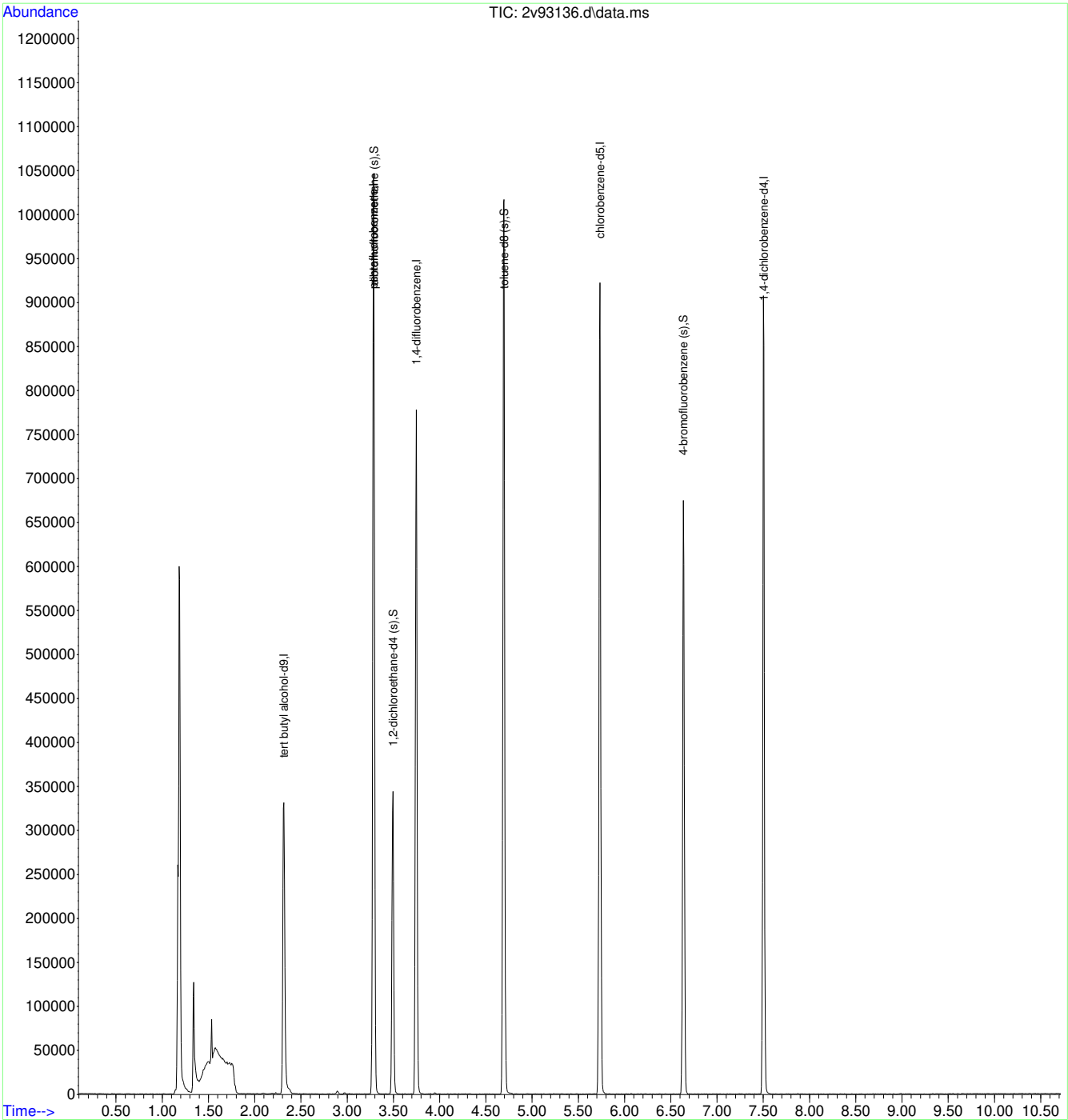
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 263793 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 299759 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 437443 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 397534 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 172476 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 159700 | 53.43 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.86% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 152528 | 49.18 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.36% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 512119 | 52.34 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.68% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 150351 | 48.82 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.64% | | | |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-4-22\v2v3782-whole batch\
Data File : 2v93136.d
Acq On : 3 Oct 2022 4:10 pm
Operator : taylors
Sample : jd52507-32
Misc : MS62506,V2V3782,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 04 09:22:29 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93011.d
Acq On : 30 Sep 2022 1:54 am
Operator : KYLEM
Sample : jd52507-33 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 43 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:48:39 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

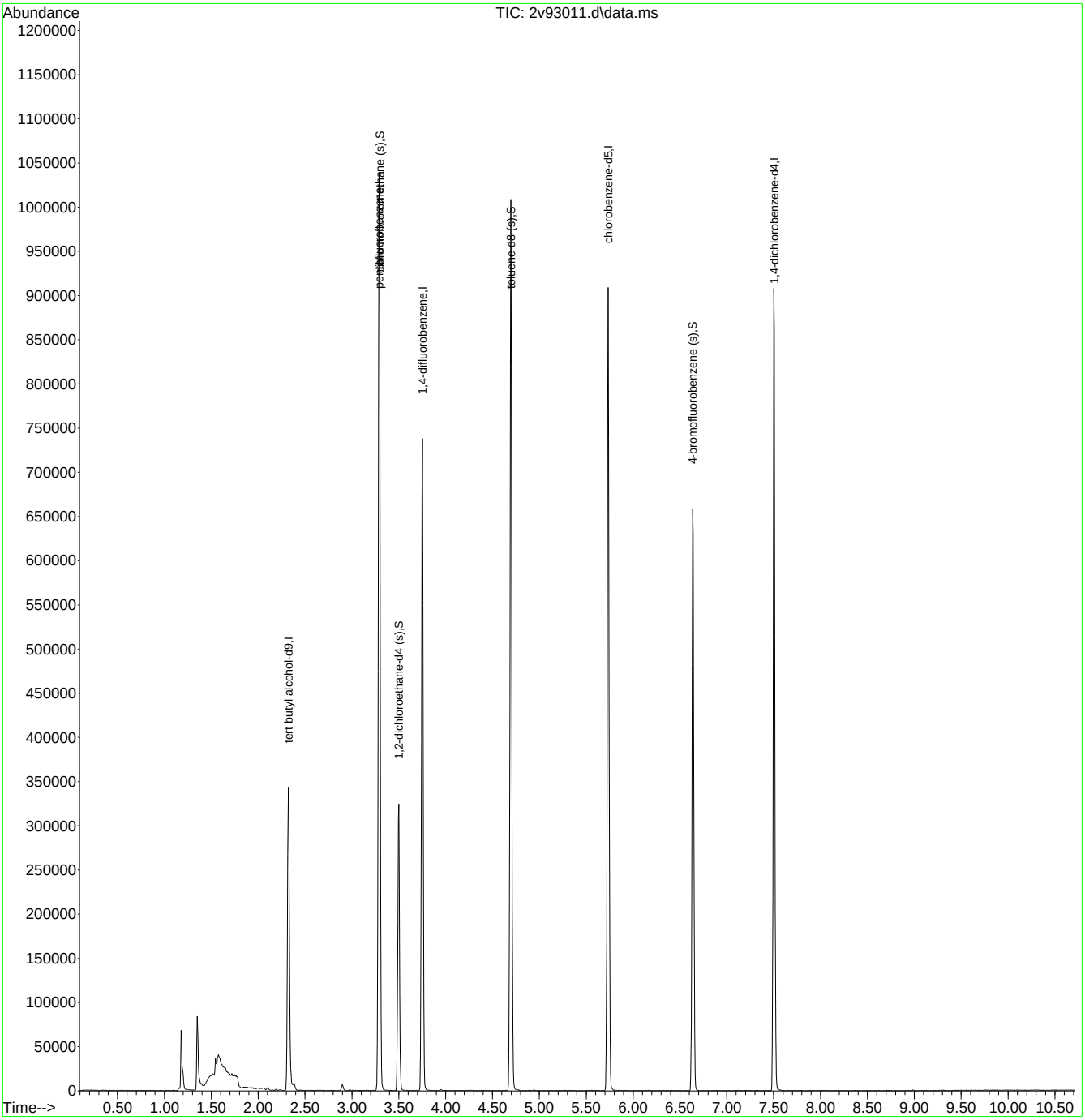
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 253826 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.291 | 168 | 310857 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 429195 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 393212 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 179094 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.296 | 113 | 153739 | 49.60 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.20% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.501 | 65 | 141075 | 46.36 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 92.72% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 491179 | 50.75 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.50% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 148506 | 46.44 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.88% | | | |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93011.d
Acq On : 30 Sep 2022 1:54 am
Operator : KYLEM
Sample : jd52507-33 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 43 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:48:39 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-4-22\v2v3782-whole batch\
Data File : 2v93137.d
Acq On : 3 Oct 2022 4:33 pm
Operator : taylors
Sample : jd52507-34
Misc : MS62506,V2V3782,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 04 09:22:59 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

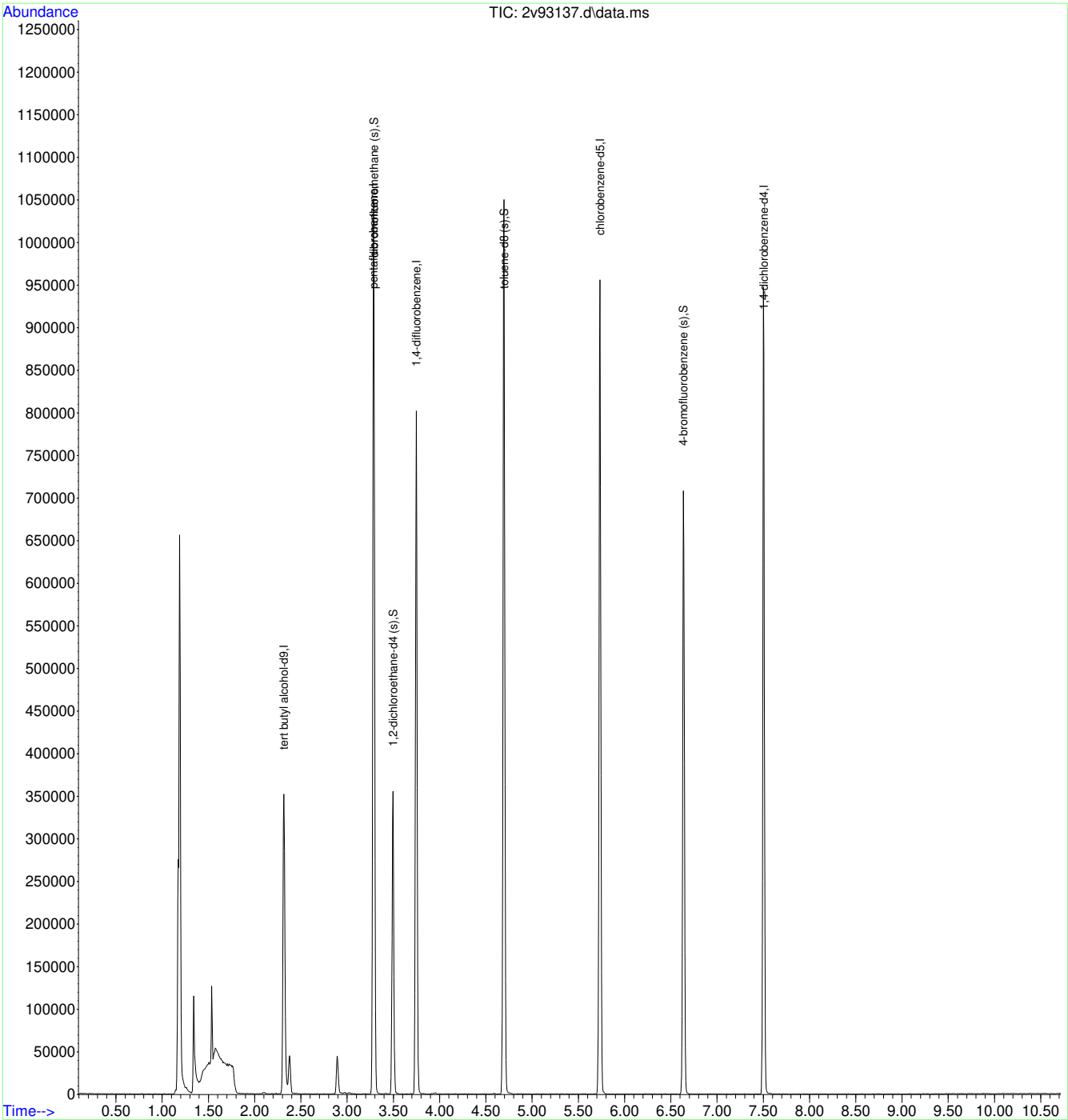
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 269818 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 306396 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 446064 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 405345 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.507 | 152 | 178926 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 165460 | 54.15 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 108.30% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.496 | 65 | 157835 | 49.90 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.80% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 520953 | 52.22 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.44% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 156145 | 48.88 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.76% | | | |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-4-22\v2v3782-whole batch\
Data File : 2v93137.d
Acq On : 3 Oct 2022 4:33 pm
Operator : taylors
Sample : jd52507-34
Misc : MS62506,V2V3782,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 04 09:22:59 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-05-22\v2v3782_10042022kd\
Data File : 2v93146.d
Acq On : 3 Oct 2022 8:03 pm
Operator : taylors
Sample : jd52507-35 Inst : MS2V
Misc : MS62506,V2V3782,5,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 04 22:33:39 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

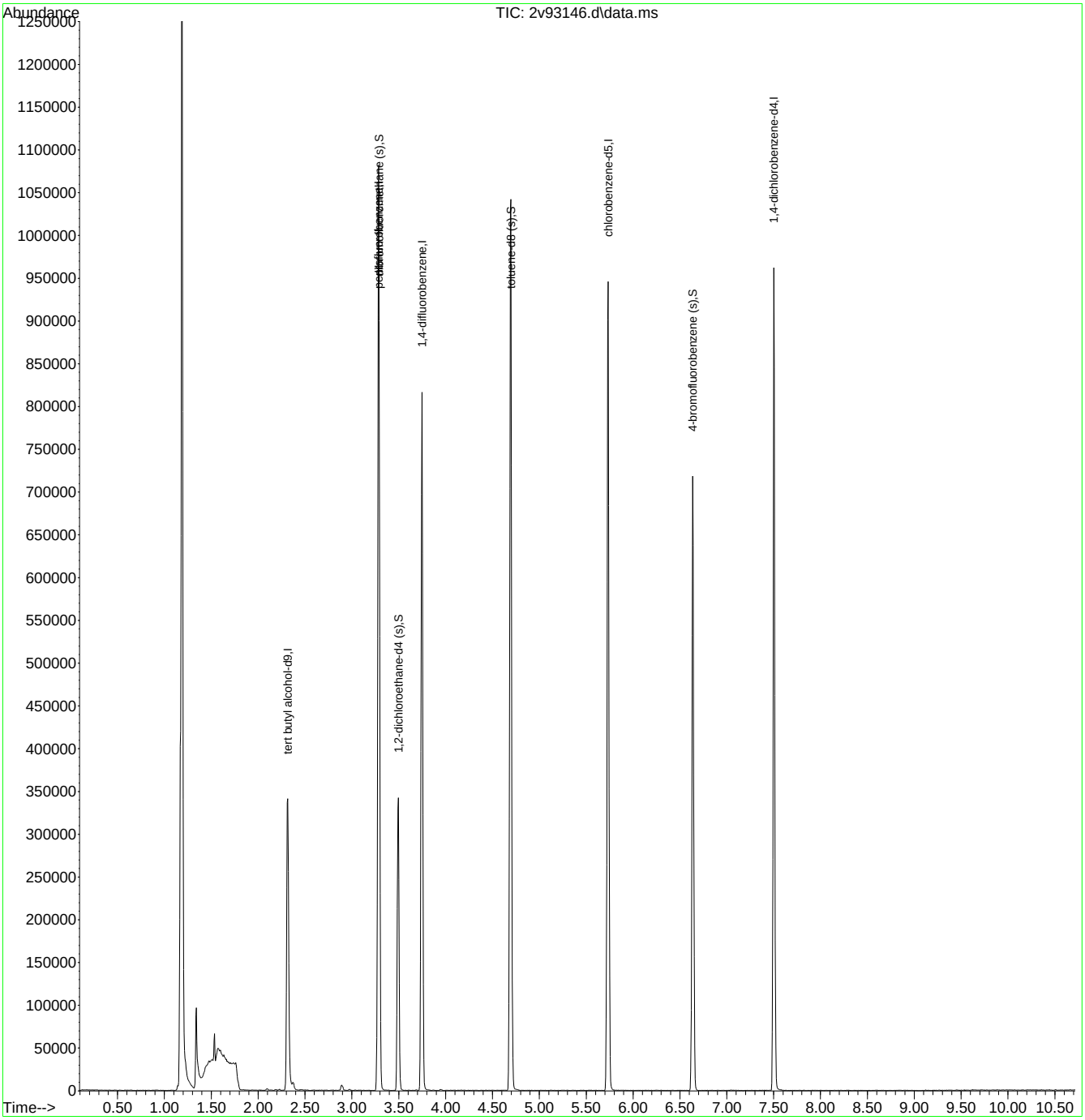
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 271409 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 314955 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 459647 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 415013 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.501 | 152 | 179324 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 167065 | 53.19 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.38% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.496 | 65 | 156288 | 47.95 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 95.90% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 531575 | 52.04 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.08% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 157054 | 49.05 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.10% | | | |
| Target Compounds | | | | | | Qvalue |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-05-22\v2v3782_10042022kd\
Data File : 2v93146.d
Acq On : 3 Oct 2022 8:03 pm
Operator : taylors
Sample : jd52507-35 Inst : MS2V
Misc : MS62506,V2V3782,5,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 04 22:33:39 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93012.d
Acq On : 30 Sep 2022 2:17 am
Operator : KYLEM
Sample : jd52507-36 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 44 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:49:28 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

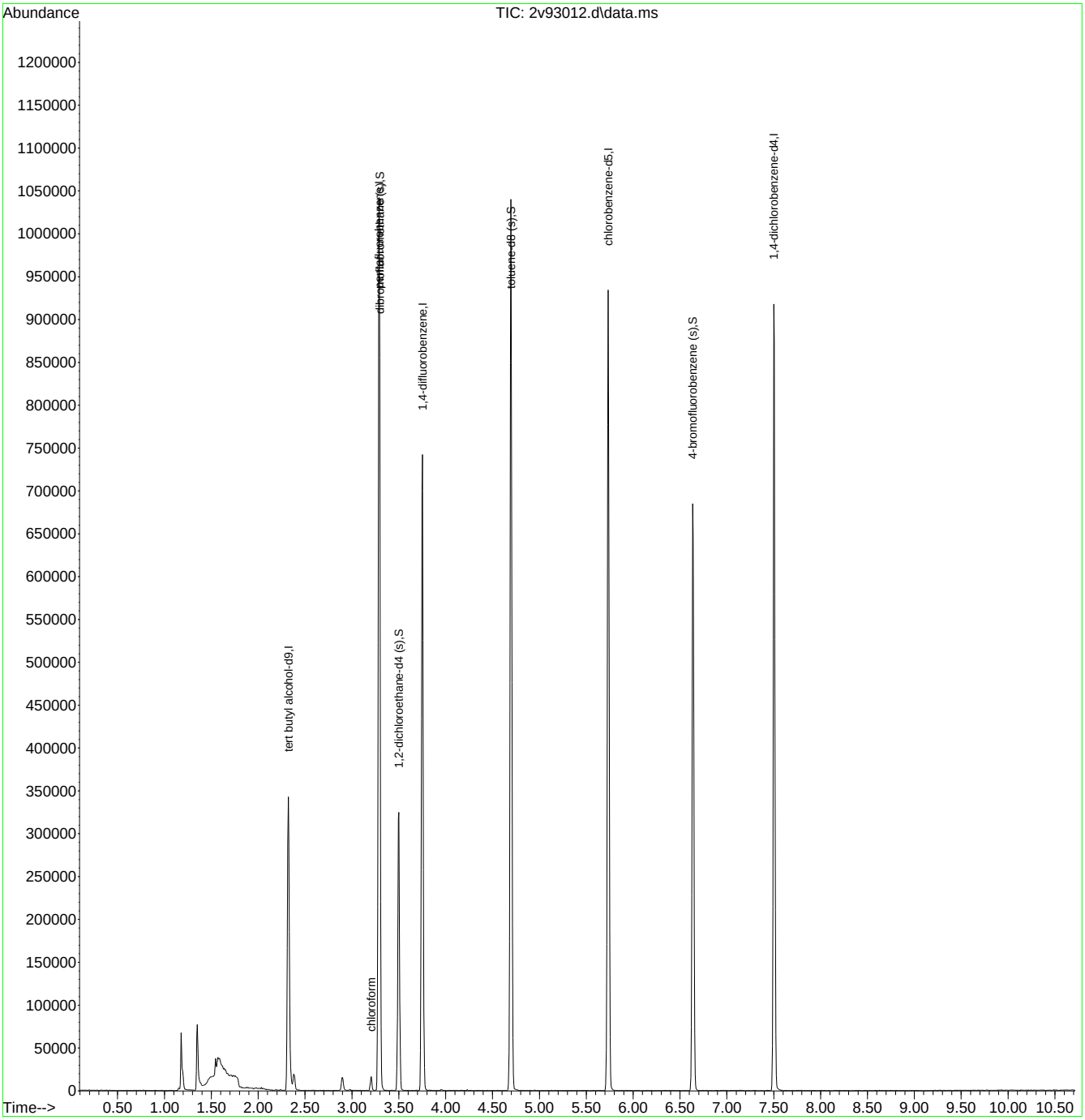
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 258557 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.291 | 168 | 313694 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 431596 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 400272 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.501 | 152 | 181029 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.296 | 113 | 155004 | 49.55 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.10% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.501 | 65 | 146618 | 47.91 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 95.82% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 501241 | 50.88 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.76% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 151344 | 46.82 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.64% | | | |
| Target Compounds | | | | | | Qvalue |
| 41) chloroform | 3.207 | 83 | 8051 | 1.44 | ug/L | 98 |

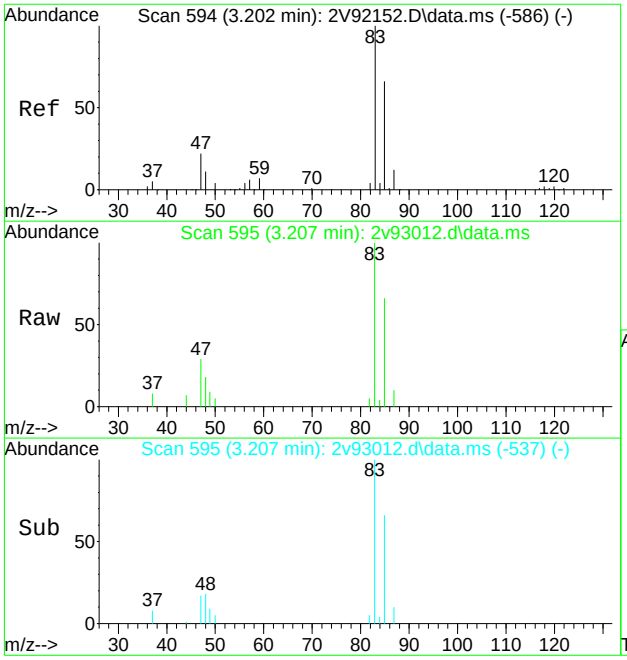
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93012.d
Acq On : 30 Sep 2022 2:17 am
Operator : KYLEM
Sample : jd52507-36 Inst : MS2V
Misc : MS62506,V2V3777,5,,,,1
ALS Vial : 44 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:49:28 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

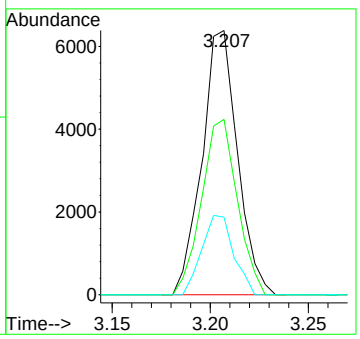





#41
chloroform
Concen: 1.44 ug/L
RT: 3.207 min Scan# 595
Delta R.T. 0.005 min
Lab File: 2v93012.d
Acq: 30 Sep 2022 2:17 am

Tgt Ion: 83 Resp: 8051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.4 | 35.9 | 95.9 |
| 47 | 29.4 | 0.0 | 56.5 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\vl10519-due today\
Data File : l347836.d
Acq On : 4 Oct 2022 1:25 pm
Operator : nicoleh
Sample : jd52507-37 Inst : GCMSL
Misc : MS62506,VL10519,5,,,,50
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 01:56:37 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

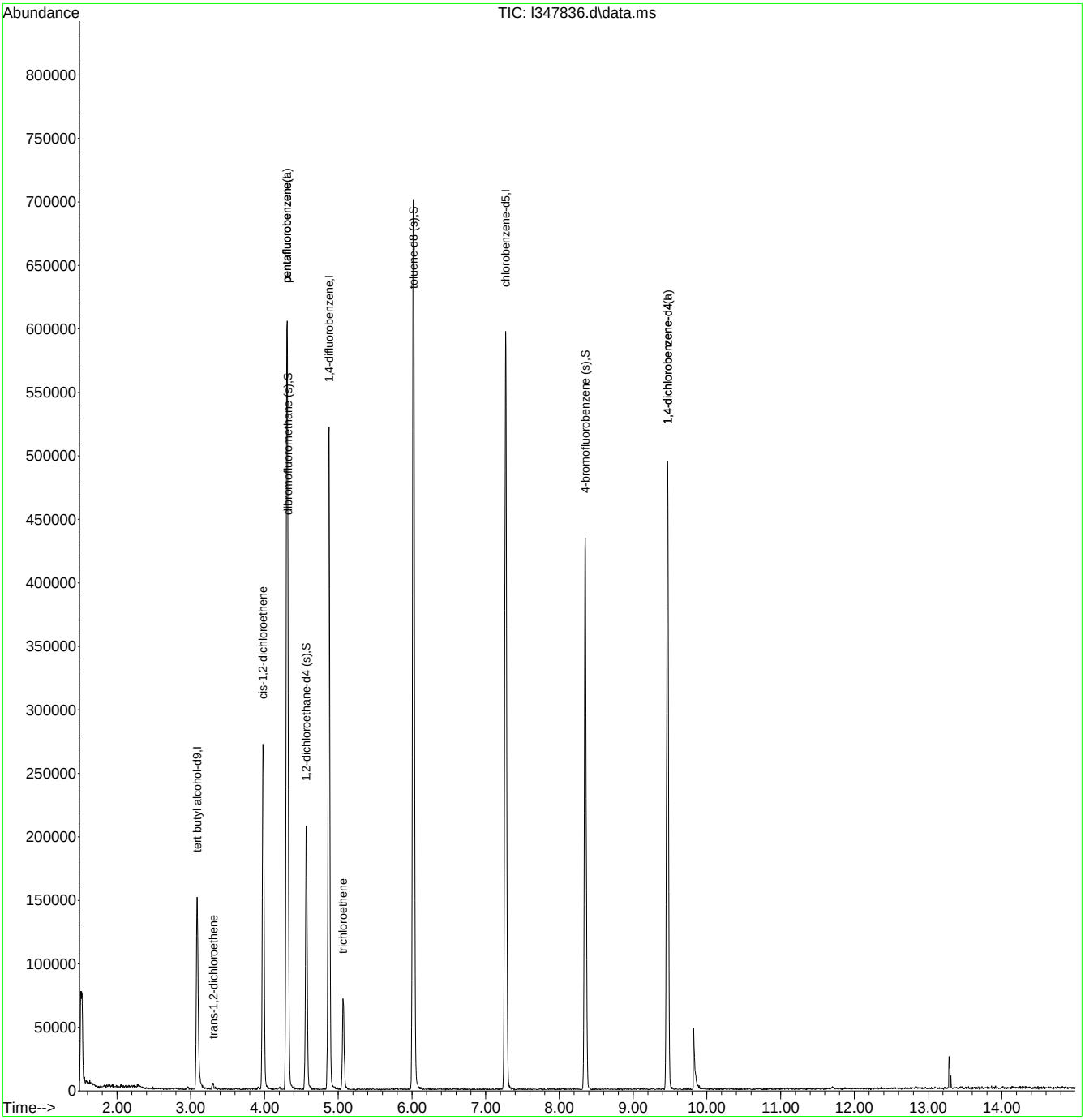
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.085 | 65 | 164823 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.305 | 168 | 258279 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.876 | 114 | 379076 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.270 | 117 | 342321 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 141563 | 50.00 | ug/L | 0.00 |
| 123) pentafluorobenzene(a) | 4.305 | 168 | 258728 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.468 | 152 | 141646 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.317 | 113 | 108386 | 46.46 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.92% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.565 | 65 | 126413 | 45.69 | ug/L | -0.01 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 91.38% | | | |
| 73) toluene-d8 (s) | 6.021 | 98 | 462865 | 49.13 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.26% | | | |
| 96) 4-bromofluorobenzene (s) | 8.351 | 95 | 166962 | 45.27 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 90.54% | | | |
| Target Compounds | | | | | | Qvalue |
| 26) trans-1,2-dichloroethene | 3.307 | 96 | 1272 | 0.49 | ug/L | 84 |
| 37) cis-1,2-dichloroethene | 3.981 | 96 | 106721 | 36.57 | ug/L | 90 |
| 59) trichloroethene | 5.065 | 95 | 23515 | 8.43 | ug/L | 98 |

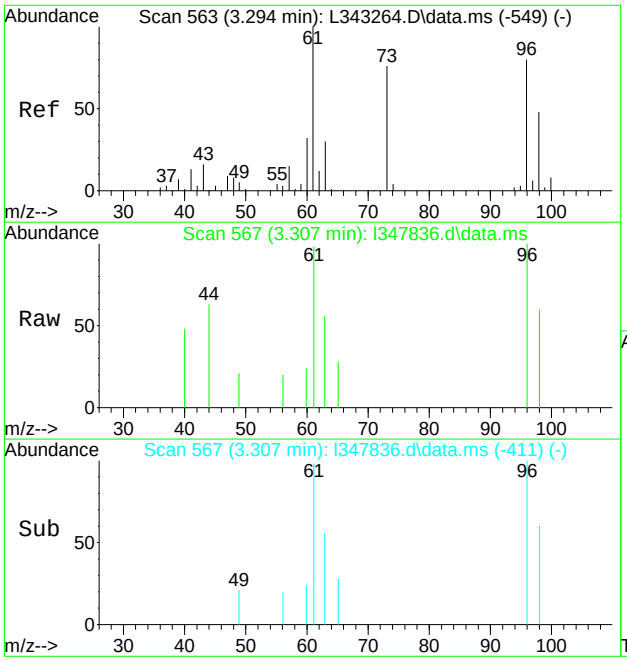
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\vl10519-due today\
Data File : l347836.d
Acq On : 4 Oct 2022 1:25 pm
Operator : nicoleh
Sample : jd52507-37 Inst : GCMSL
Misc : MS62506,VL10519,5,,,,50
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 01:56:37 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

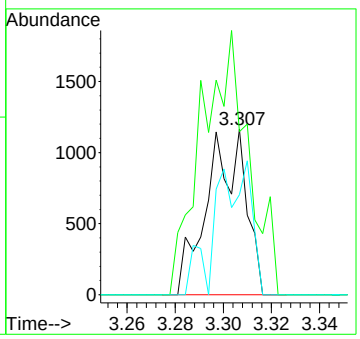


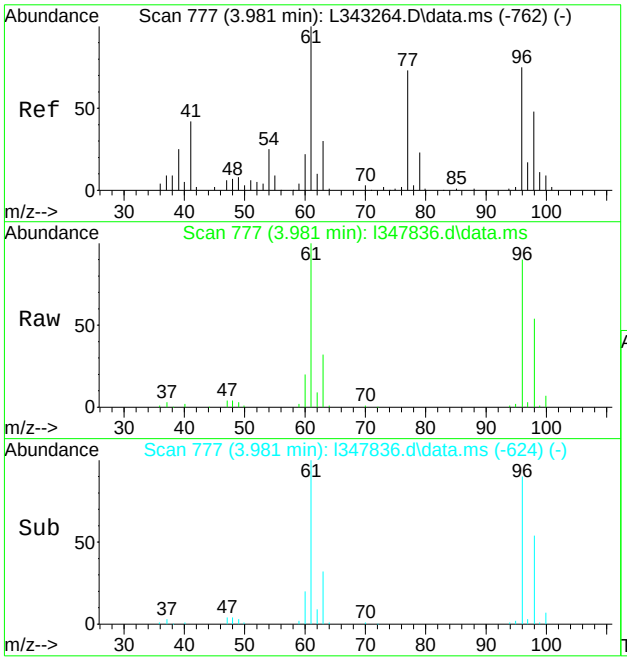



#26
trans-1,2-dichloroethene
Concen: 0.49 ug/L
RT: 3.307 min Scan# 567
Delta R.T. -0.000 min
Lab File: l347836.d
Acq: 4 Oct 2022 1:25 pm

Tgt Ion: 96 Resp: 1272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 98.4 | 95.2 | 155.2 |
| 98 | 60.4 | 31.9 | 91.9 |

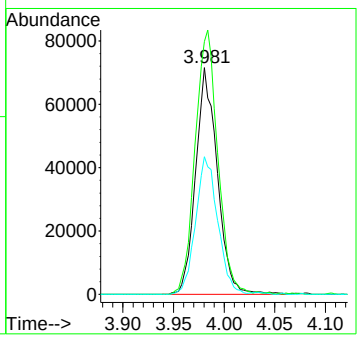


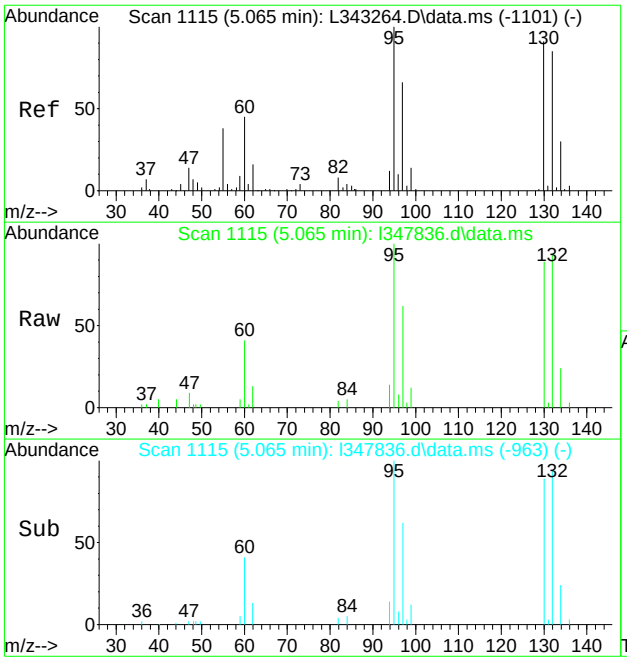




#37
cis-1,2-dichloroethene
Concen: 36.57 ug/L
RT: 3.981 min Scan# 777
Delta R.T. -0.009 min
Lab File: l347836.d
Acq: 4 Oct 2022 1:25 pm

Tgt Ion: 96 Resp: 106721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 111.4 | 98.5 | 158.5 |
| 98 | 60.6 | 31.8 | 91.8 |

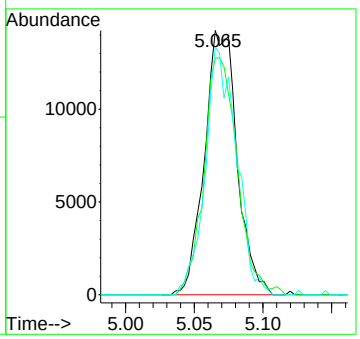





#59
trichloroethene
Concen: 8.43 ug/L
RT: 5.065 min Scan# 1115
Delta R.T. -0.013 min
Lab File: l347836.d
Acq: 4 Oct 2022 1:25 pm

Tgt Ion: 95 Resp: 23515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 89.5 | 57.9 | 117.9 |
| 132 | 93.5 | 60.6 | 120.6 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\vl10519-due today\
Data File : l347837.d
Acq On : 4 Oct 2022 1:48 pm
Operator : nicoleh
Sample : jd52507-37 Inst : GCMSL
Misc : MS62506,VL10519,5,,,,5
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 01:57:57 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

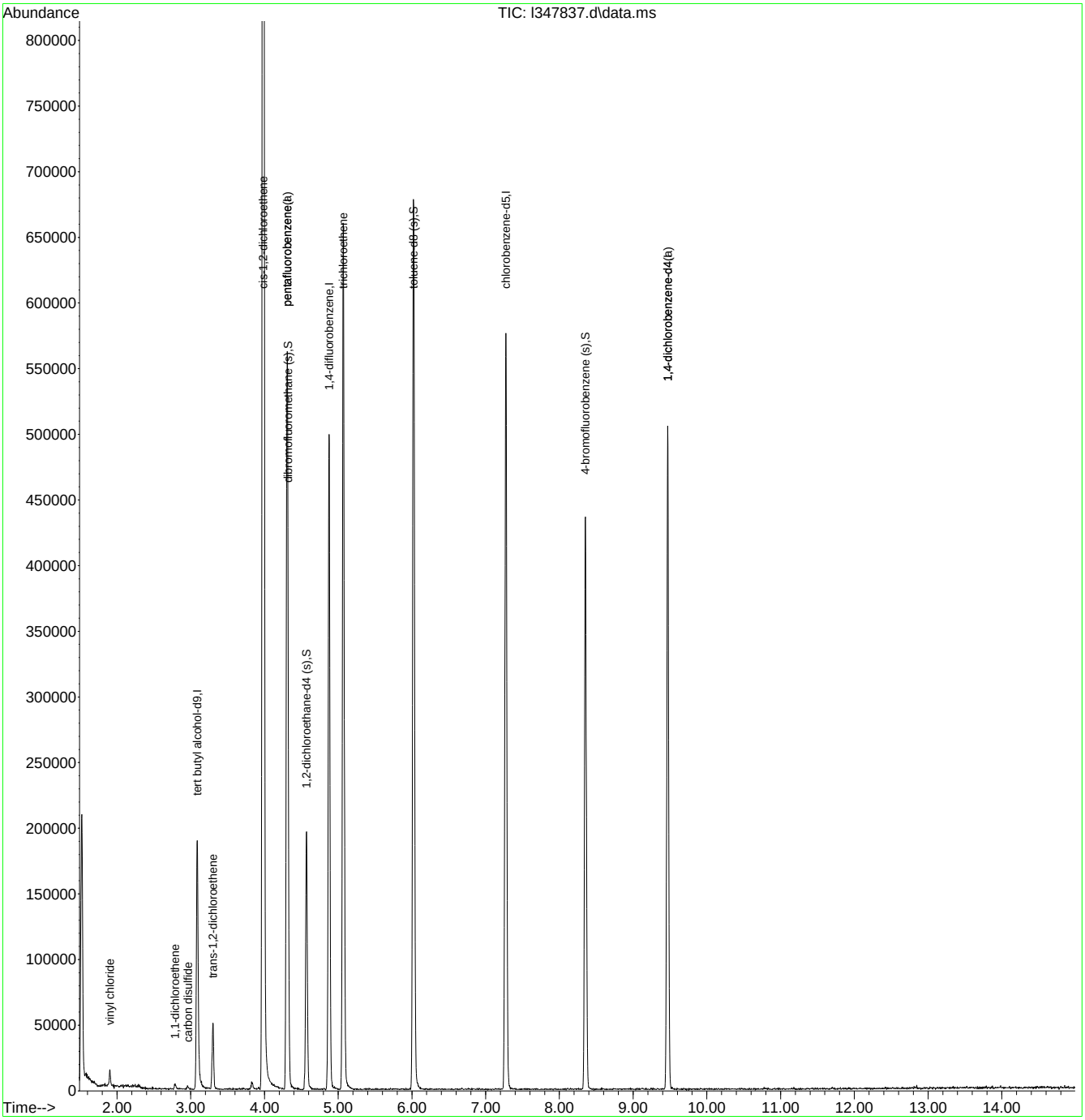
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.089 | 65 | 198707 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.308 | 168 | 240170 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.876 | 114 | 355257 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.273 | 117 | 335453 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 139947 | 50.00 | ug/L | 0.00 |
| 123) pentafluorobenzene(a) | 4.308 | 168 | 239113 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.468 | 152 | 139757 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.318 | 113 | 102886 | 47.43 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.86% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.568 | 65 | 119192 | 45.97 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 91.94% | | | |
| 73) toluene-d8 (s) | 6.021 | 98 | 449514 | 48.68 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.36% | | | |
| 96) 4-bromofluorobenzene (s) | 8.351 | 95 | 165481 | 45.39 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 90.78% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) vinyl chloride | 1.901 | 62 | 8938 | 2.76 | ug/L | 78 |
| 17) 1,1-dichloroethene | 2.787 | 96 | 1112 | 0.50 | ug/L # | 52 |
| 22) carbon disulfide | 2.963 | 76 | 2373 | 0.35 | ug/L | 87 |
| 26) trans-1,2-dichloroethene | 3.300 | 96 | 16130 | 6.72 | ug/L | 99 |
| 37) cis-1,2-dichloroethene | 3.984 | 96 | 821017 | 302.55 | ug/L | 90 |
| 59) trichloroethene | 5.068 | 95 | 209244 | 80.00 | ug/L | 98 |

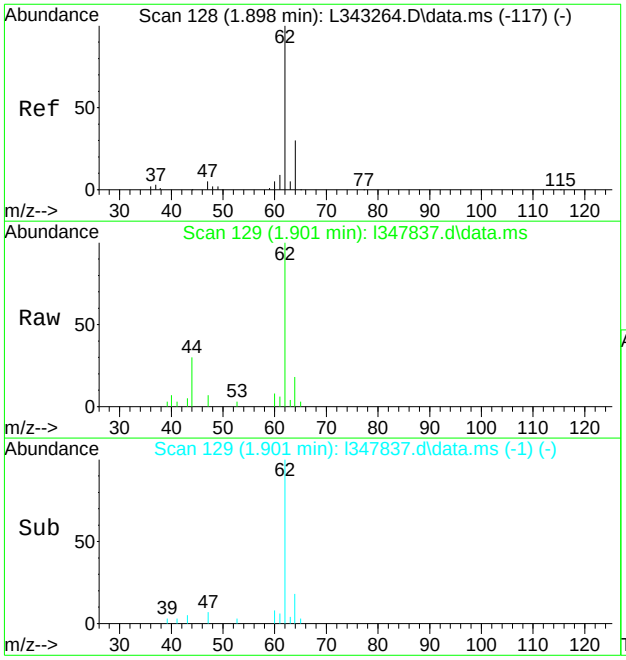
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\vl10519-due today\
Data File : l347837.d
Acq On : 4 Oct 2022 1:48 pm
Operator : nicoleh
Sample : jd52507-37 Inst : GCMSL
Misc : MS62506,VL10519,5,,,,5
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 01:57:57 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

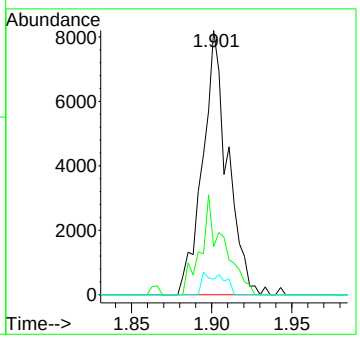


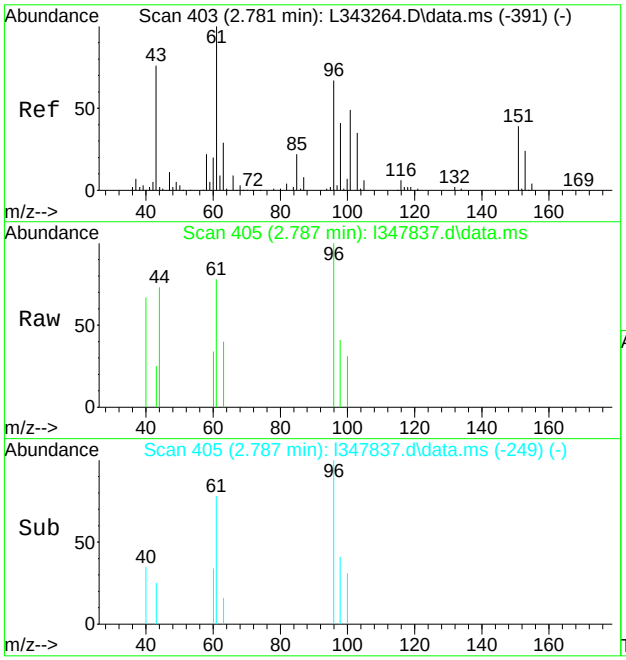



#9
vinyl chloride
Concen: 2.76 ug/L
RT: 1.901 min Scan# 129
Delta R.T. 0.000 min
Lab File: l347837.d
Acq: 4 Oct 2022 1:48 pm

Tgt Ion: 62 Resp: 8938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 18.3 | 2.8 | 62.8 |
| 61 | 5.9 | 0.0 | 39.6 |

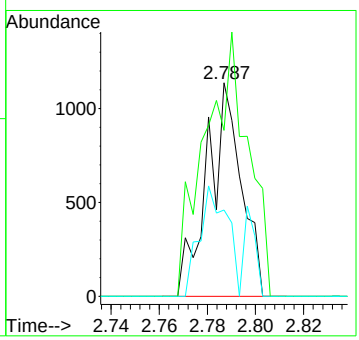


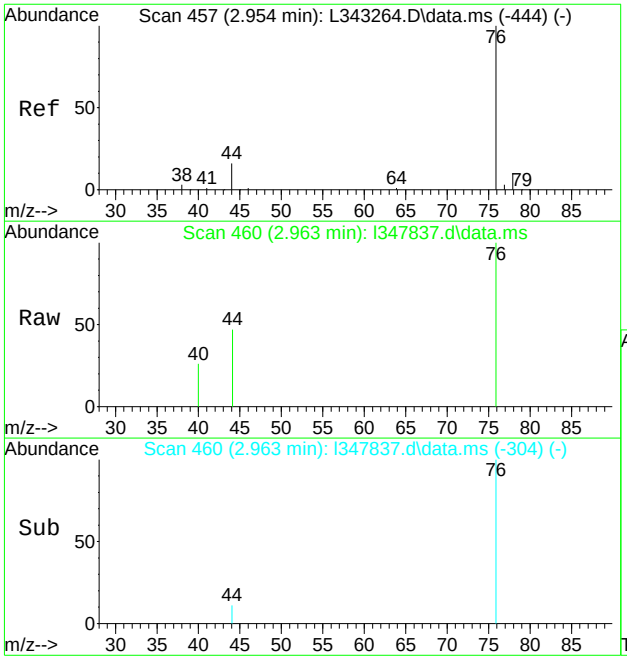




#17
1,1-dichloroethene
Concen: 0.50 ug/L
RT: 2.787 min Scan# 405
Delta R.T. -0.000 min
Lab File: l347837.d
Acq: 4 Oct 2022 1:48 pm

Tgt Ion: 96 Resp: 1112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 77.7 | 123.9 | 183.9# |
| 63 | 40.5 | 21.2 | 81.2 |

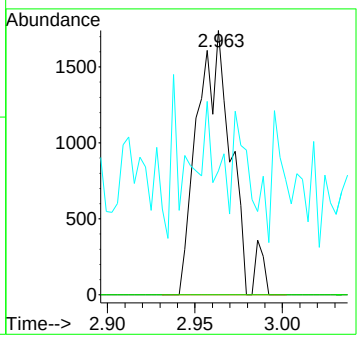


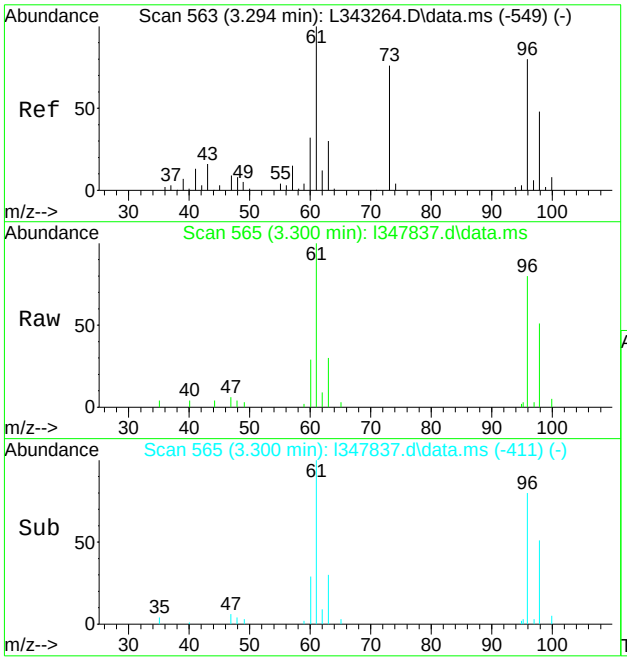



#22
carbon disulfide
Concen: 0.35 ug/L
RT: 2.963 min Scan# 460
Delta R.T. 0.000 min
Lab File: l347837.d
Acq: 4 Oct 2022 1:48 pm

Tgt Ion: 76 Resp: 2373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 0.0 | 0.0 | 39.6 |
| 44 | 14.4 | 0.0 | 42.9 |

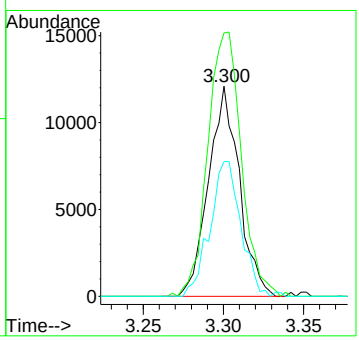


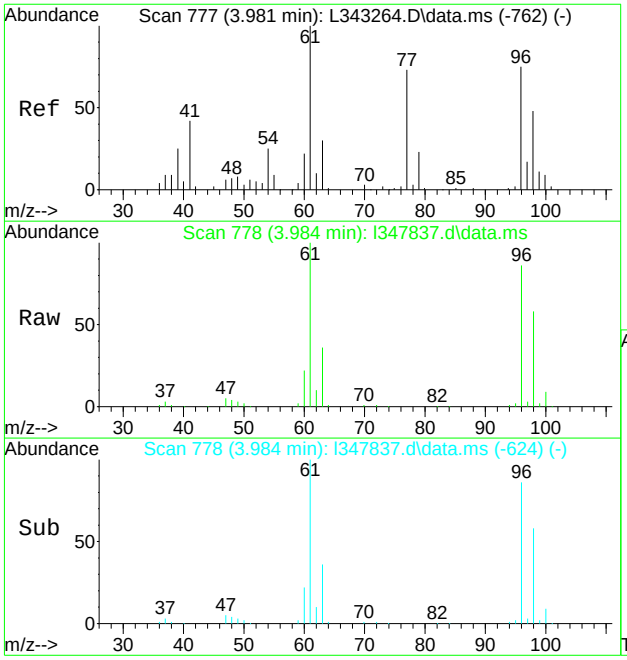




#26
trans-1,2-dichloroethene
Concen: 6.72 ug/L
RT: 3.300 min Scan# 565
Delta R.T. -0.007 min
Lab File: l347837.d
Acq: 4 Oct 2022 1:48 pm

Tgt Ion: 96 Resp: 16130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 125.3 | 95.2 | 155.2 |
| 98 | 64.1 | 31.9 | 91.9 |

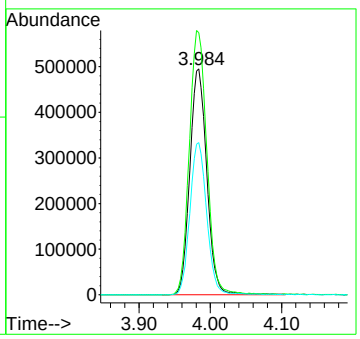


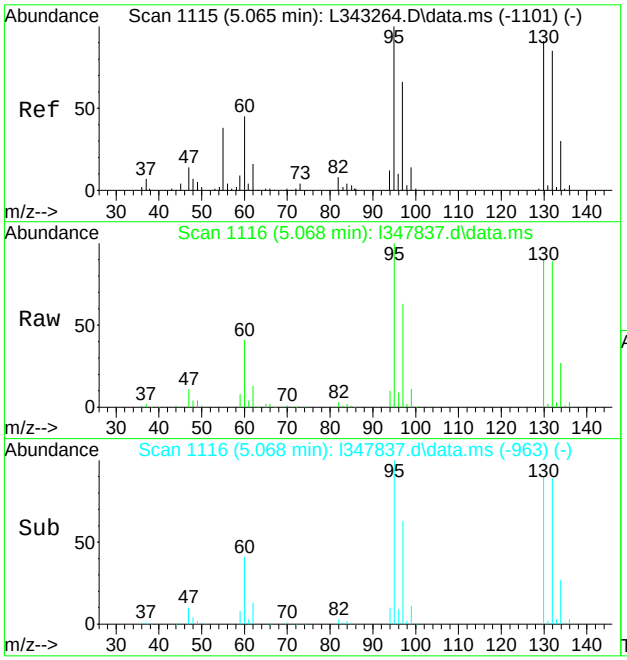



#37
cis-1,2-dichloroethene
Concen: 302.55 ug/L
RT: 3.984 min Scan# 778
Delta R.T. -0.006 min
Lab File: l347837.d
Acq: 4 Oct 2022 1:48 pm

Tgt Ion: 96 Resp: 821017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 116.0 | 98.5 | 158.5 |
| 98 | 67.3 | 31.8 | 91.8 |

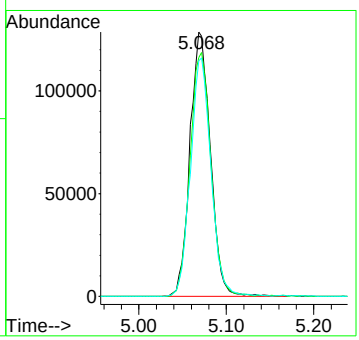



#59
trichloroethene
Concen: 80.00 ug/L
RT: 5.068 min Scan# 1116
Delta R.T. -0.010 min
Lab File: l347837.d
Acq: 4 Oct 2022 1:48 pm

Tgt Ion: 95 Resp: 209244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 90.3 | 57.9 | 117.9 |
| 132 | 89.0 | 60.6 | 120.6 |



Manual Integrations APPROVED (compounds with "m" flag)
Mei Chen
09/28/22 16:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226434.d
Acq On : 27 Sep 2022 11:28 am
Operator : nickw
Sample : mb Inst : MSDTEST1A
Misc : MS62460, V1A9698,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 22:35:20 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.915 | 65 | 249114 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.932 | 168 | 535409 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 753518 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 635616 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 258091 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 228778 | 48.49 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.98% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 258998 | 49.64 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.28% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 863292 | 50.49 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.98% | | | |
| 97) 4-bromofluorobenzene (s) | 7.087 | 95 | 254707 | 47.57 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.14% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) ethanol | 2.411 | 45 | 2770m | 89.64 | ug/L | |
| 11) bromomethane | 2.103 | 96 | 2965 | 0.86 | ug/L | 89 |
| 20) iodomethane | 2.764 | 142 | 1744 | 0.88 | ug/L | 74 |
| 22) carbon disulfide | 2.822 | 76 | 4291 | 0.39 | ug/L | 77 |

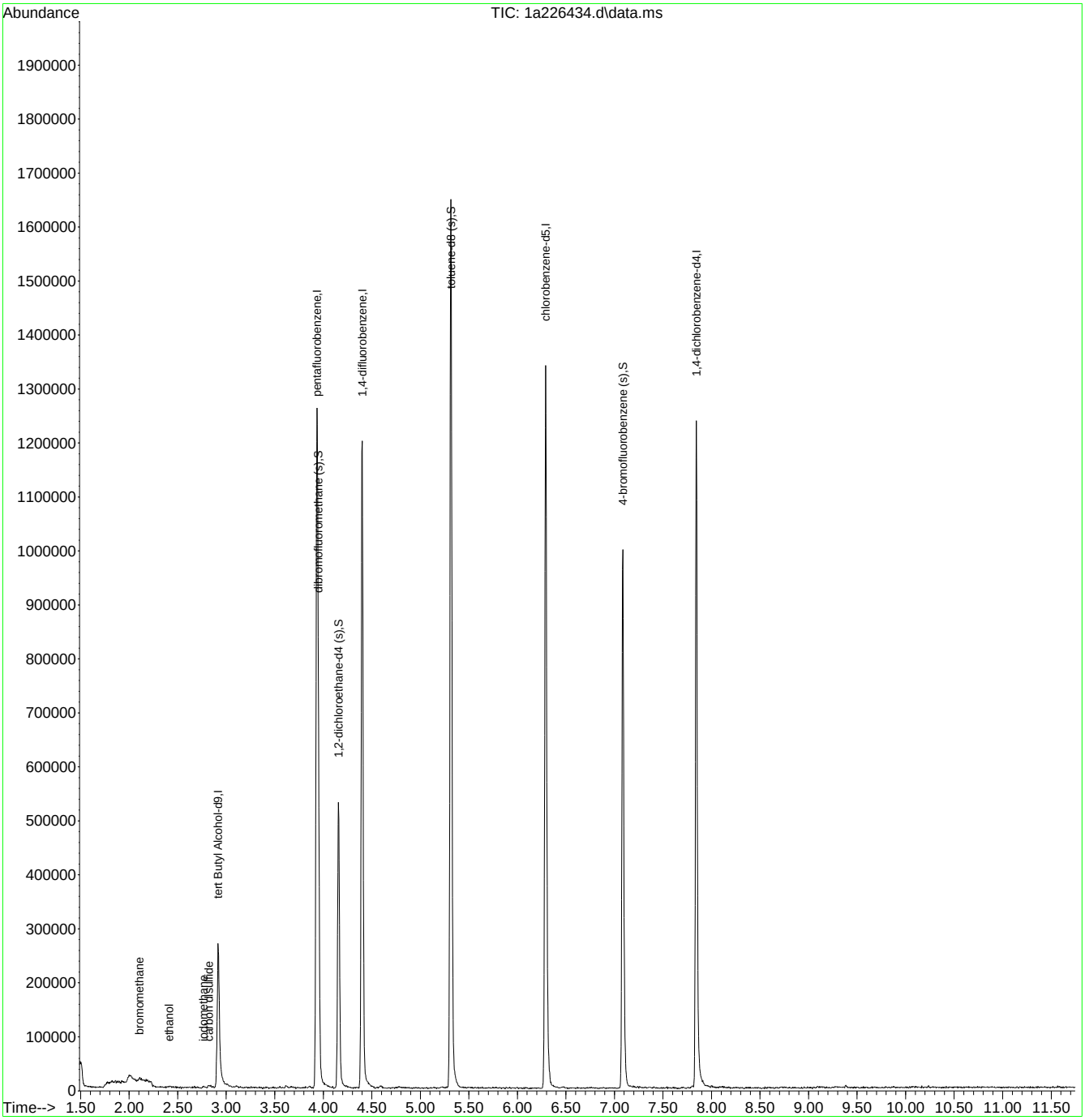
(#) = qualifier out of range (m) = manual integration (+) = signals summed

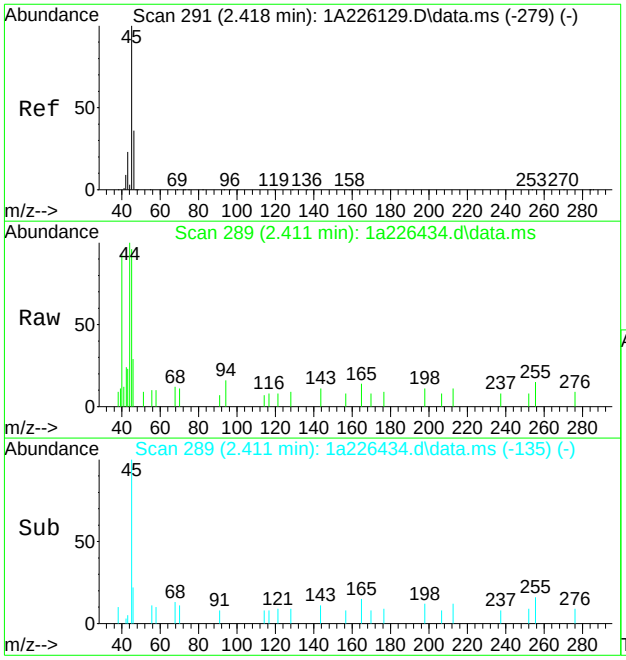
7.2.1
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226434.d
Acq On : 27 Sep 2022 11:28 am
Operator : nickw
Sample : mb Inst : MSDTEST1A
Misc : MS62460, V1A9698,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 22:35:20 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

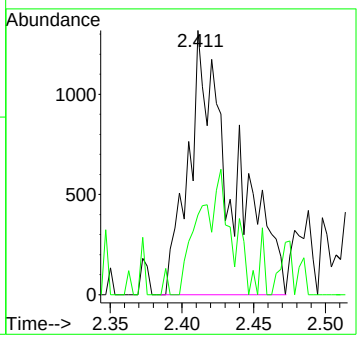


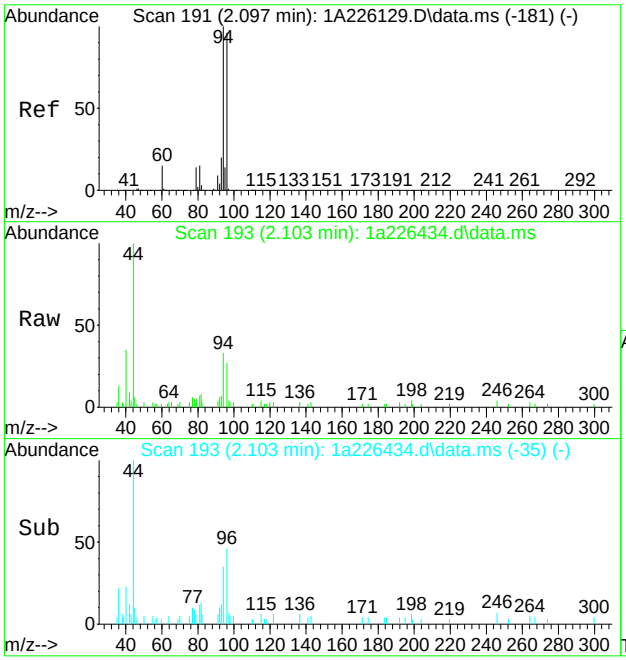



#3
ethanol
Concen: 89.64 ug/L m
RT: 2.411 min Scan# 289
Delta R.T. -0.007 min
Lab File: 1a226434.d
Acq: 27 Sep 2022 11:28 am

Tgt Ion: 45 Resp: 2770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 30.2 | 16.2 | 56.2 |

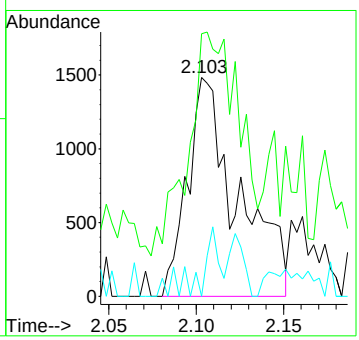


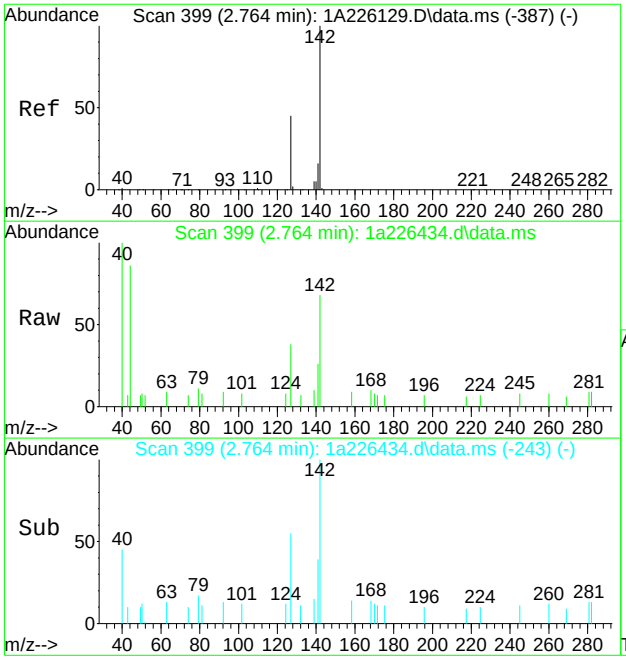




#11
bromomethane
Concen: 0.86 ug/L
RT: 2.103 min Scan# 193
Delta R.T. 0.006 min
Lab File: 1a226434.d
Acq: 27 Sep 2022 11:28 am

Tgt Ion: 96 Resp: 2965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 94 | 96.0 | 74.0 | 134.0 |
| 95 | 0.0 | 0.0 | 44.8 |

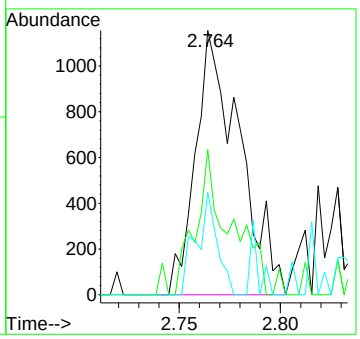


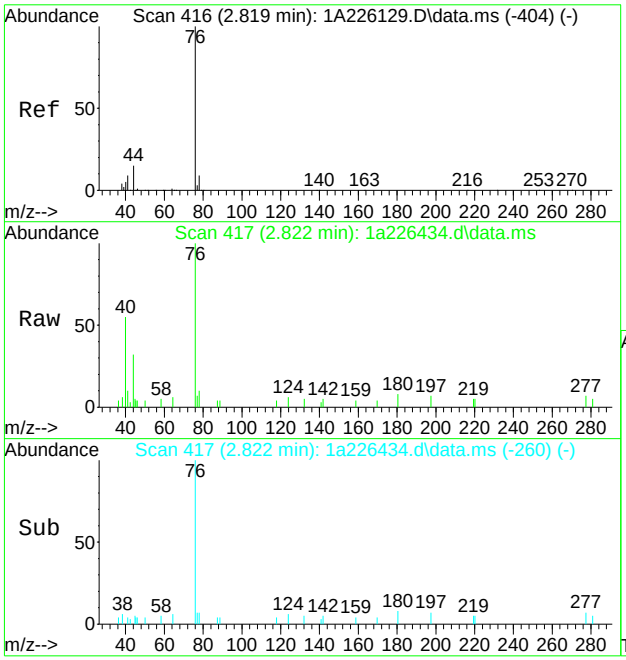



#20
iodomethane
Concen: 0.88 ug/L
RT: 2.764 min Scan# 399
Delta R.T. 0.000 min
Lab File: 1a226434.d
Acq: 27 Sep 2022 11:28 am

Tgt Ion:142 Resp: 1744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 54.9 | 14.5 | 74.5 |
| 141 | 38.8 | 0.0 | 46.4 |

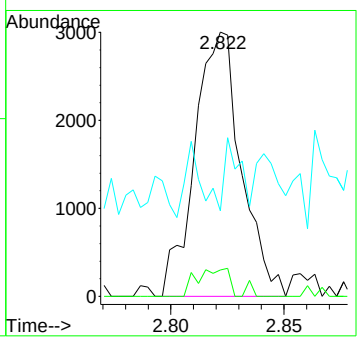



#22
carbon disulfide
Concen: 0.39 ug/L
RT: 2.822 min Scan# 417
Delta R.T. 0.003 min
Lab File: 1a226434.d
Acq: 27 Sep 2022 11:28 am

Tgt Ion: 76 Resp: 4291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.0 | 0.0 | 39.4 |
| 44 | 0.0 | 0.0 | 45.3 |



# Manual Integration Approval Summary



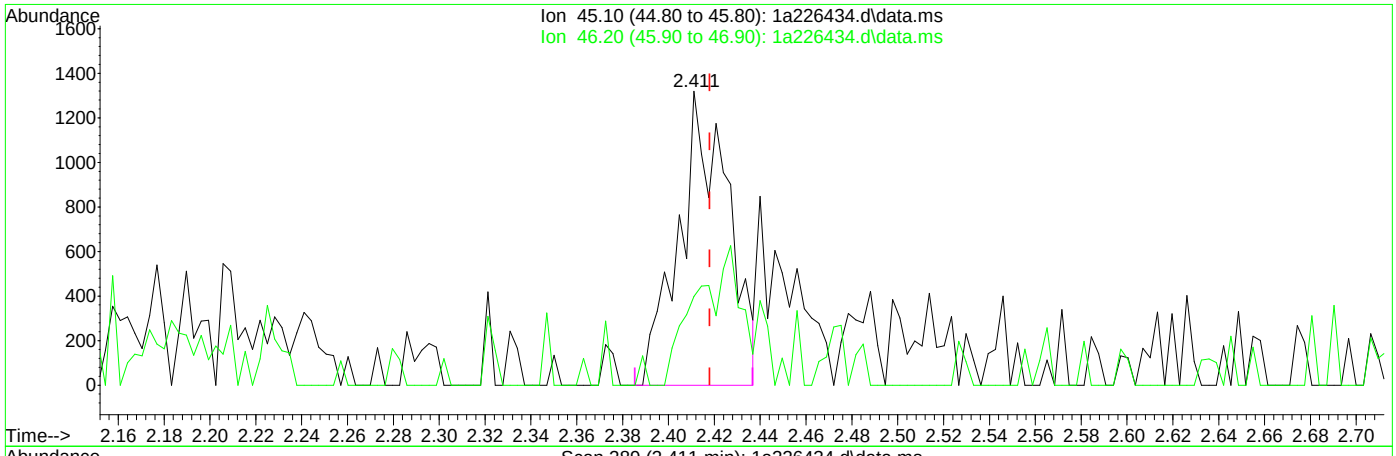
**Sample Number:** V1A9698-MB
**Lab FileID:** 1A226434.D
**Injection Time:** 09/27/22 11:28
**Method:** SW846 8260D
**Analyst approved:** 09/27/22 23:49 Renee Cofreros
**Supervisor approved:** 09/28/22 16:43 Mei Chen

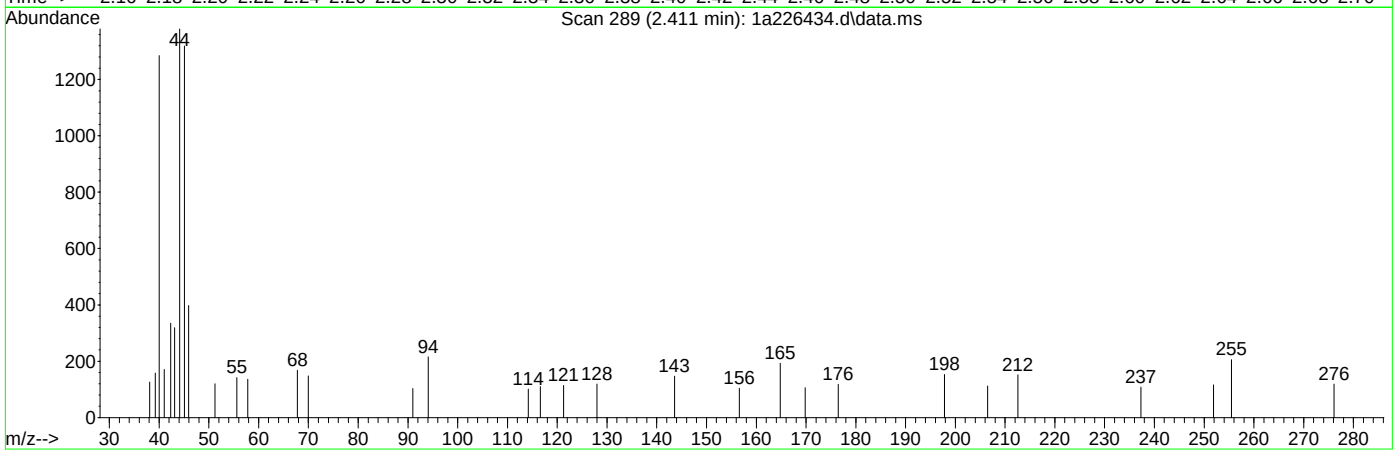
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Ethanol | 64-17-5 | | 2.41 | Poor instrument integration |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226434.d
Acq On : 27 Sep 2022 11:28 am
Operator : nickw
Sample : mb Inst : MSDTEST1A
Misc : MS62460, V1A9698,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 11:57:06 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration




TIC: 1a226434.d\data.ms

(3) ethanol

2.411min (-0.007) 63.20ug/L

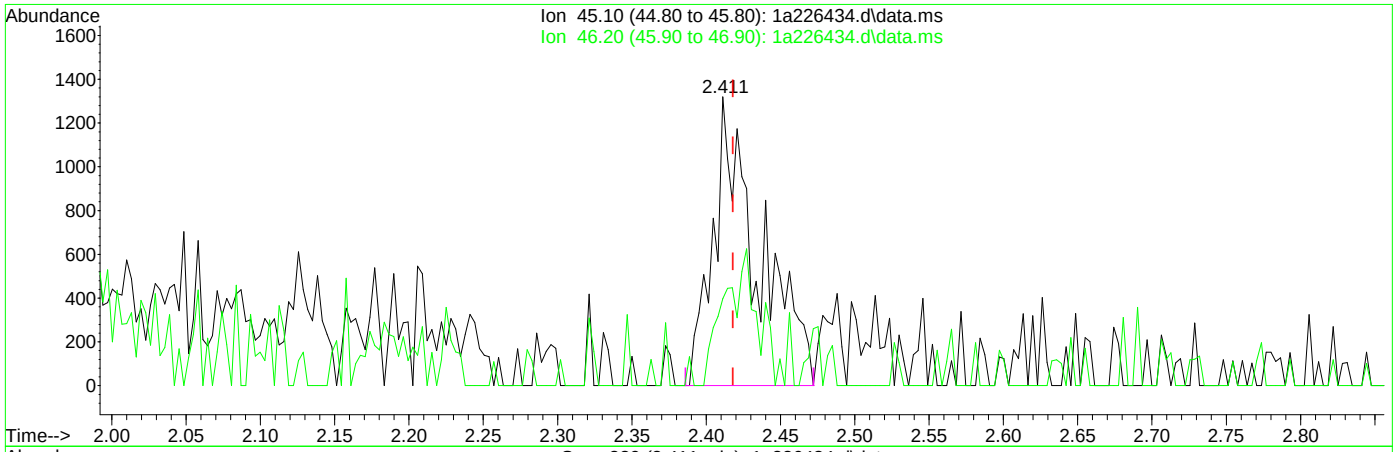
response 1953

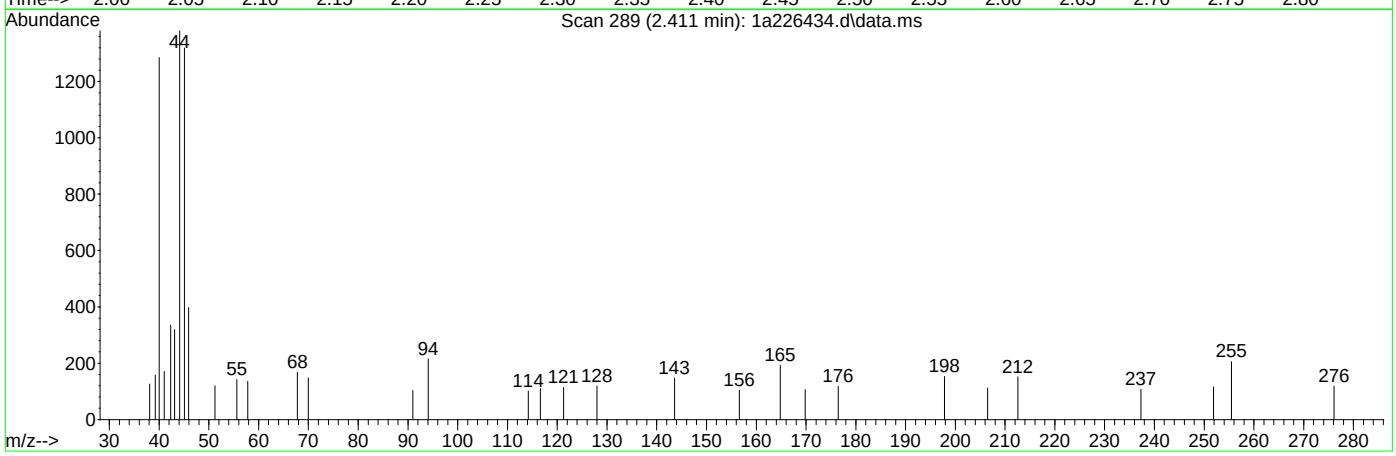
| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.20 | 36.20 | 30.17 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226434.d
Acq On : 27 Sep 2022 11:28 am
Operator : nickw
Sample : mb Inst : MSDTEST1A
Misc : MS62460, V1A9698,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 11:57:06 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration




TIC: 1a226434.d\data.ms

(3) ethanol

2.411min (-0.007) 89.64ug/L m

response 2770

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.20 | 36.20 | 30.17 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92884.d
Acq On : 27 Sep 2022 10:33 pm
Operator : KYLEM
Sample : mb
Misc : MS62460,V2V3773,5,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 28 11:46:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

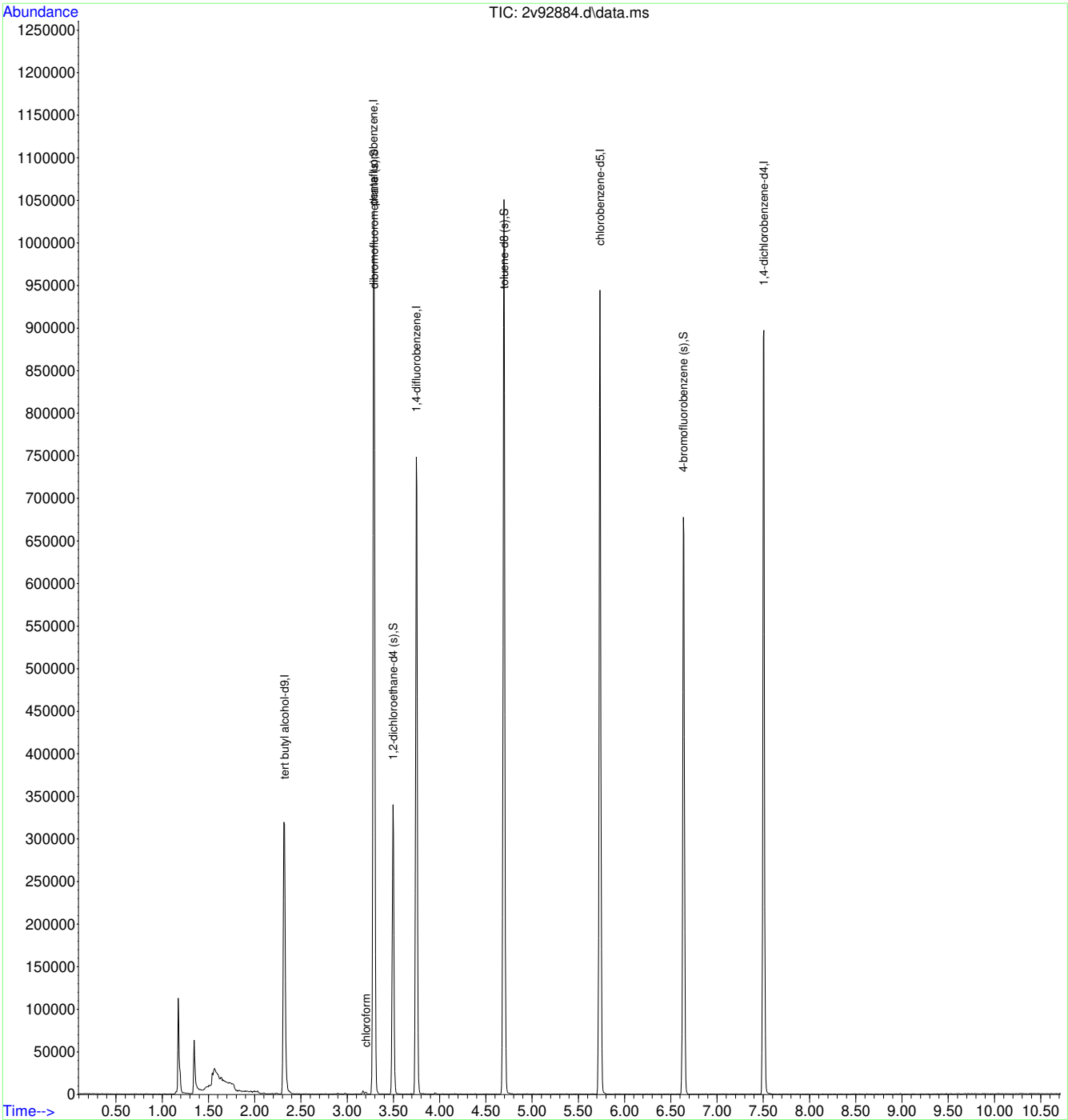
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 254109 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 320623 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 442513 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 399908 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 179762 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 159549 | 49.90 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.80% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 148466 | 47.32 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 94.64% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 514332 | 52.25 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.50% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 152091 | 47.39 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.78% | | | |
| Target Compounds | | | | | | Qvalue |
| 41) chloroform | 3.202 | 83 | 1246 | 0.22 | ug/L | 77 |

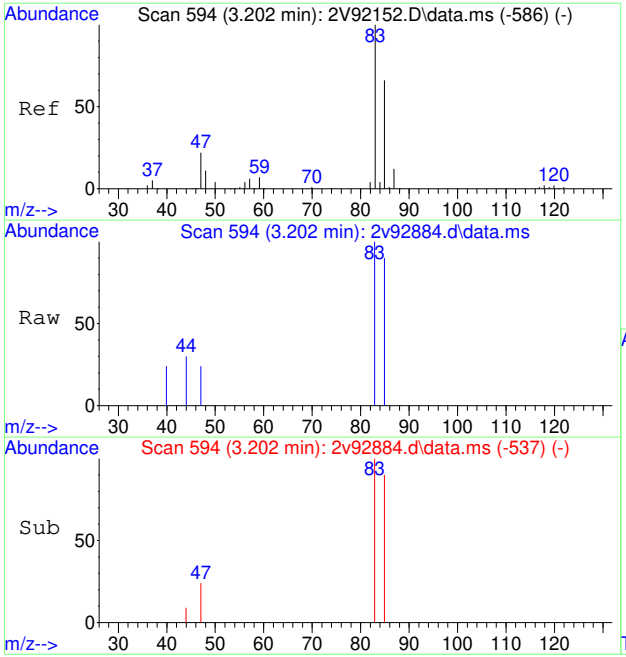
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92884.d
Acq On : 27 Sep 2022 10:33 pm
Operator : KYLEM
Sample : mb
Misc : MS62460,V2V3773,5,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 28 11:46:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

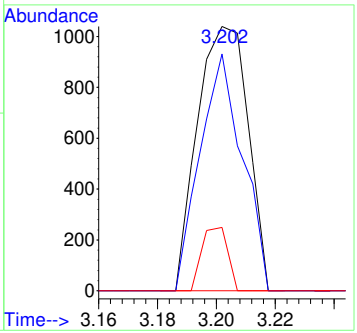





#41
chloroform
Concen: 0.22 ug/L
RT: 3.202 min Scan# 594
Delta R.T. -0.000 min
Lab File: 2v92884.d
Acq: 27 Sep 2022 10:33 pm

Tgt Ion: 83 Resp: 1246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 89.5 | 35.9 | 95.9 |
| 47 | 23.9 | 0.0 | 56.5 |



Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220394.d
Acq On : 29 Sep 2022 11:16 am
Operator : nicoleh
Sample : mb Inst : GCMS2A
Misc : MS37677,V2A9581,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 02 22:33:24 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

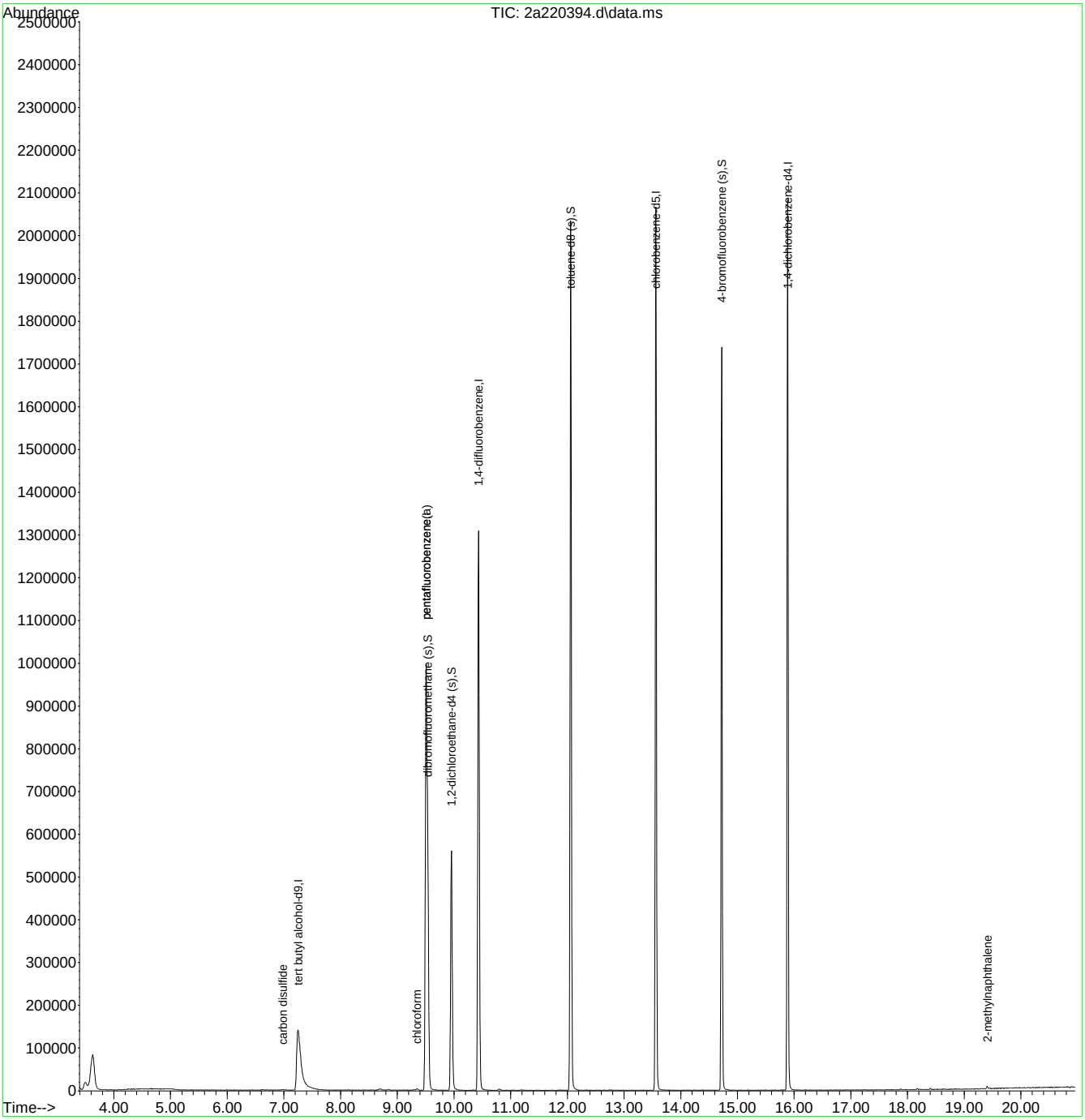
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.251 | 65 | 425003 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.511 | 168 | 700235 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.433 | 114 | 1059029 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.563 | 117 | 1002793 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 483091 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.511 | 168 | 700235 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 342739 | 52.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.00% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.956 | 65 | 422613 | 42.93 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 85.86% | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 1209268 | 49.23 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.46% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 503737 | 56.37 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 112.74% | | | |
| Target Compounds | | | | | | Qvalue |
| 21) carbon disulfide | 6.983 | 76 | 3977 | 0.23 | ug/L | 81 |
| 40) chloroform | 9.348 | 83 | 3027 | 0.25 | ug/L | 91 |
| 123) 2-methylnaphthalene | 19.409 | 142 | 3228 | 0.29 | ug/L | 82 |

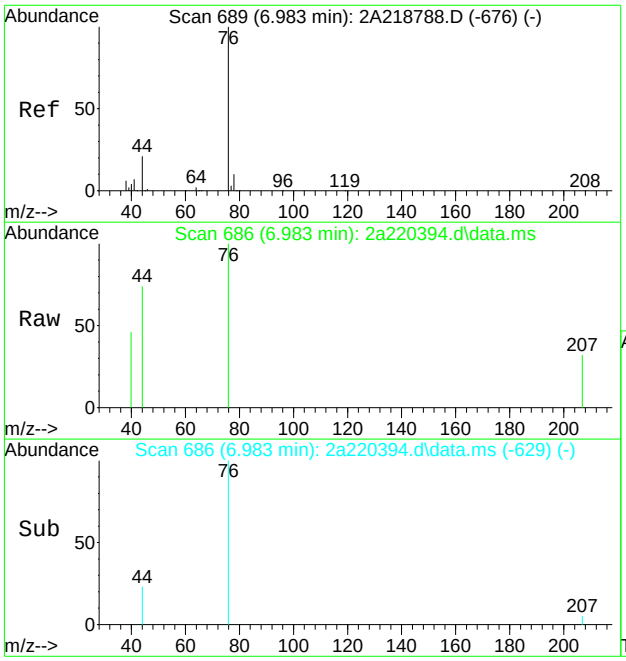
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220394.d
Acq On : 29 Sep 2022 11:16 am
Operator : nicoleh
Sample : mb Inst : GCMS2A
Misc : MS37677,V2A9581,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 02 22:33:24 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

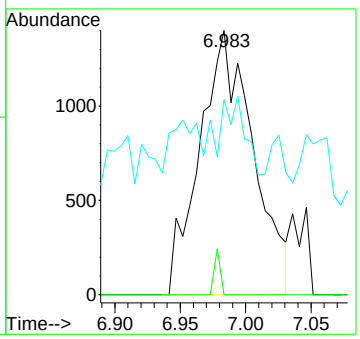


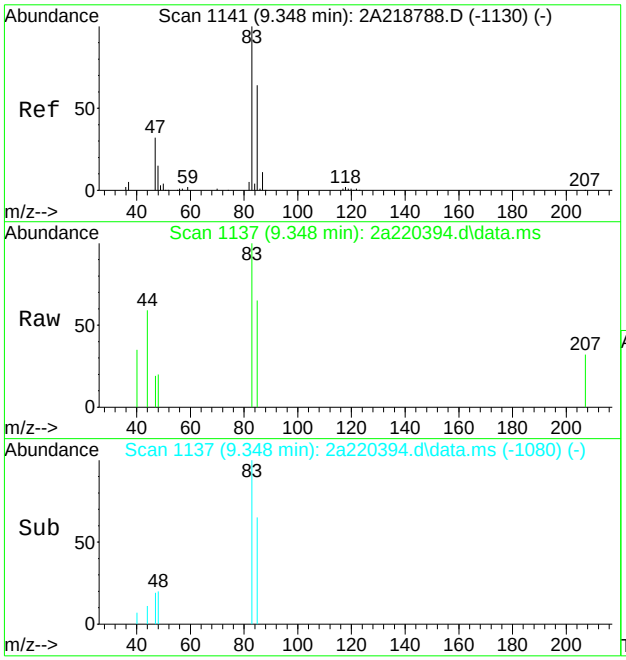



#21
carbon disulfide
Concen: 0.23 ug/L
RT: 6.983 min Scan# 686
Delta R.T. -0.000 min
Lab File: 2a220394.d
Acq: 29 Sep 2022 11:16 am

Tgt Ion: 76 Resp: 3977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 0.0 | 0.0 | 39.5 |
| 44 | 27.8 | 0.0 | 50.6 |

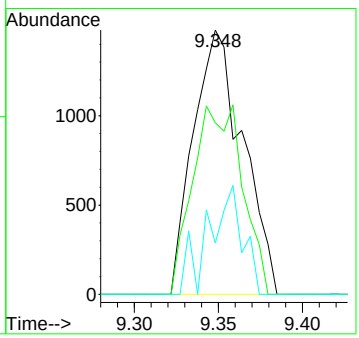


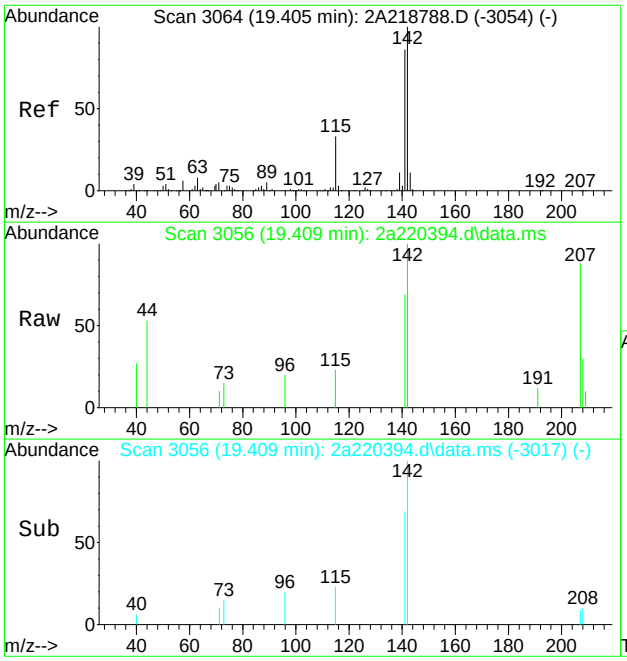




#40
chloroform
Concen: 0.25 ug/L
RT: 9.348 min Scan# 1137
Delta R.T. 0.001 min
Lab File: 2a220394.d
Acq: 29 Sep 2022 11:16 am

Tgt Ion: 83 Resp: 3027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.9 | 34.2 | 94.2 |
| 47 | 19.4 | 2.7 | 62.7 |

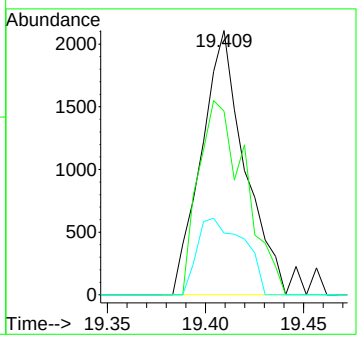





#123
2-methylnaphthalene
Concen: 0.29 ug/L
RT: 19.409 min Scan# 3056
Delta R.T. 0.004 min
Lab File: 2a220394.d
Acq: 29 Sep 2022 11:16 am

Tgt Ion:142 Resp: 3228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 69.5 | 66.1 | 106.1 |
| 115 | 23.4 | 12.9 | 52.9 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200583.d
Acq On : 29 Sep 2022 11:20 am
Operator : taylors
Sample : mb Inst : ACC-VOA-MSX
Misc : MS46075,V1X8637,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:36:41 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

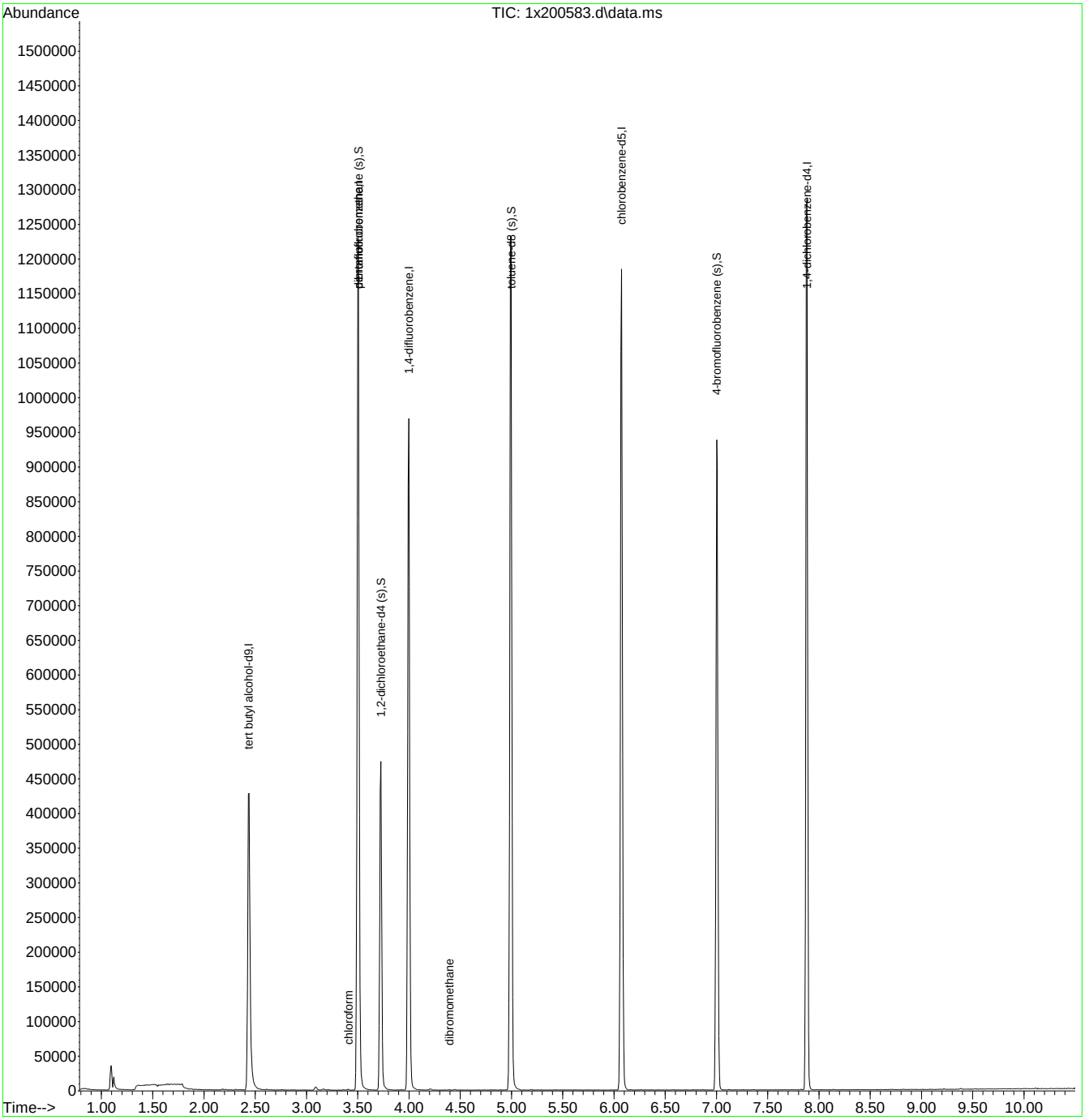
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.434 | 65 | 360446 | 500.00 | ug/L | -0.01 |
| 5) pentafluorobenzene | 3.507 | 168 | 420735 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 3.998 | 114 | 579189 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.074 | 117 | 530291 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 264239 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.507 | 113 | 188388 | 47.47 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.94% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.726 | 65 | 217421 | 49.11 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.22% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 631324 | 49.77 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.54% | | | |
| 98) 4-bromofluorobenzene (s) | 7.003 | 95 | 231331 | 50.43 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.86% | | | |
| Target Compounds | | | | | | Qvalue |
| 42) chloroform | 3.411 | 83 | 758 | 0.17 | ug/L | 77 |
| 67) dibromomethane | 4.393 | 93 | 199 | 0.12 | ug/L # | 67 |

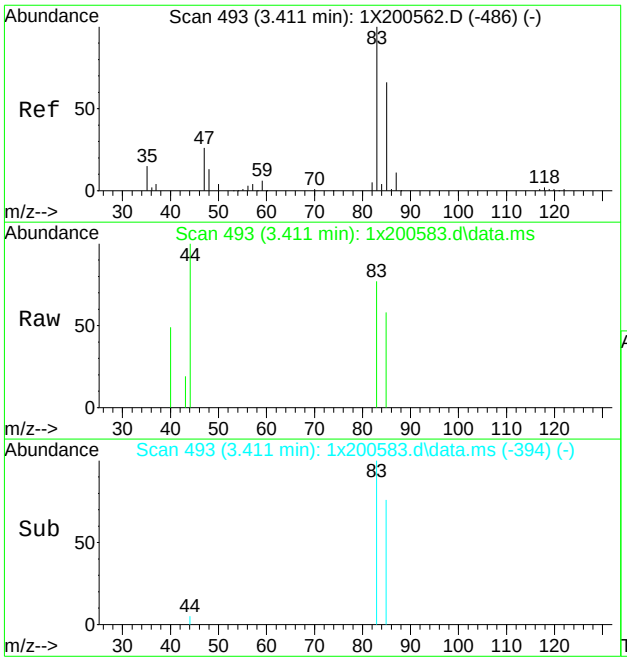
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200583.d
Acq On : 29 Sep 2022 11:20 am
Operator : taylors
Sample : mb Inst : ACC-VOA-MSX
Misc : MS46075,V1X8637,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Oct 03 06:36:41 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

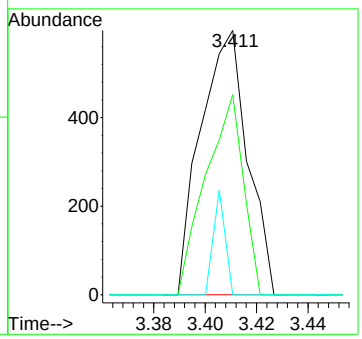


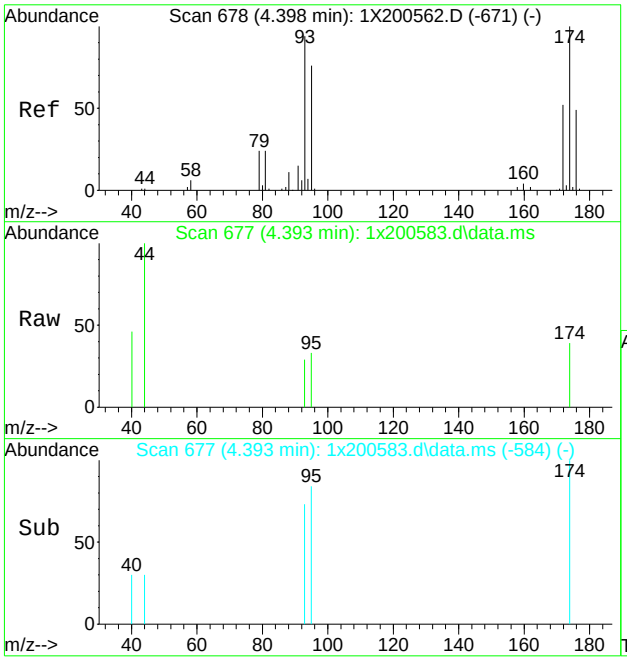



#42
chloroform
Concen: 0.17 ug/L
RT: 3.411 min Scan# 493
Delta R.T. -0.000 min
Lab File: 1x200583.d
Acq: 29 Sep 2022 11:20 am

Tgt Ion: 83 Resp: 758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 75.7 | 36.3 | 96.3 |
| 47 | 0.0 | 0.0 | 56.2 |

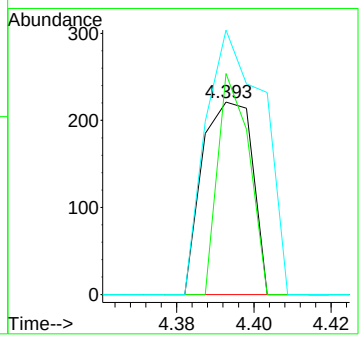



#67
dibromomethane
Concen: 0.12 ug/L
RT: 4.393 min Scan# 677
Delta R.T. -0.005 min
Lab File: 1x200583.d
Acq: 29 Sep 2022 11:20 am

Tgt Ion: 93 Resp: 199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 114.9 | 51.3 | 111.3# |
| 174 | 137.6 | 76.9 | 136.9# |



Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93004.d
Acq On : 29 Sep 2022 11:11 pm
Operator : KYLEM
Sample : mb Inst : MS2V
Misc : MS46075,V2V3777,5,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:35:06 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

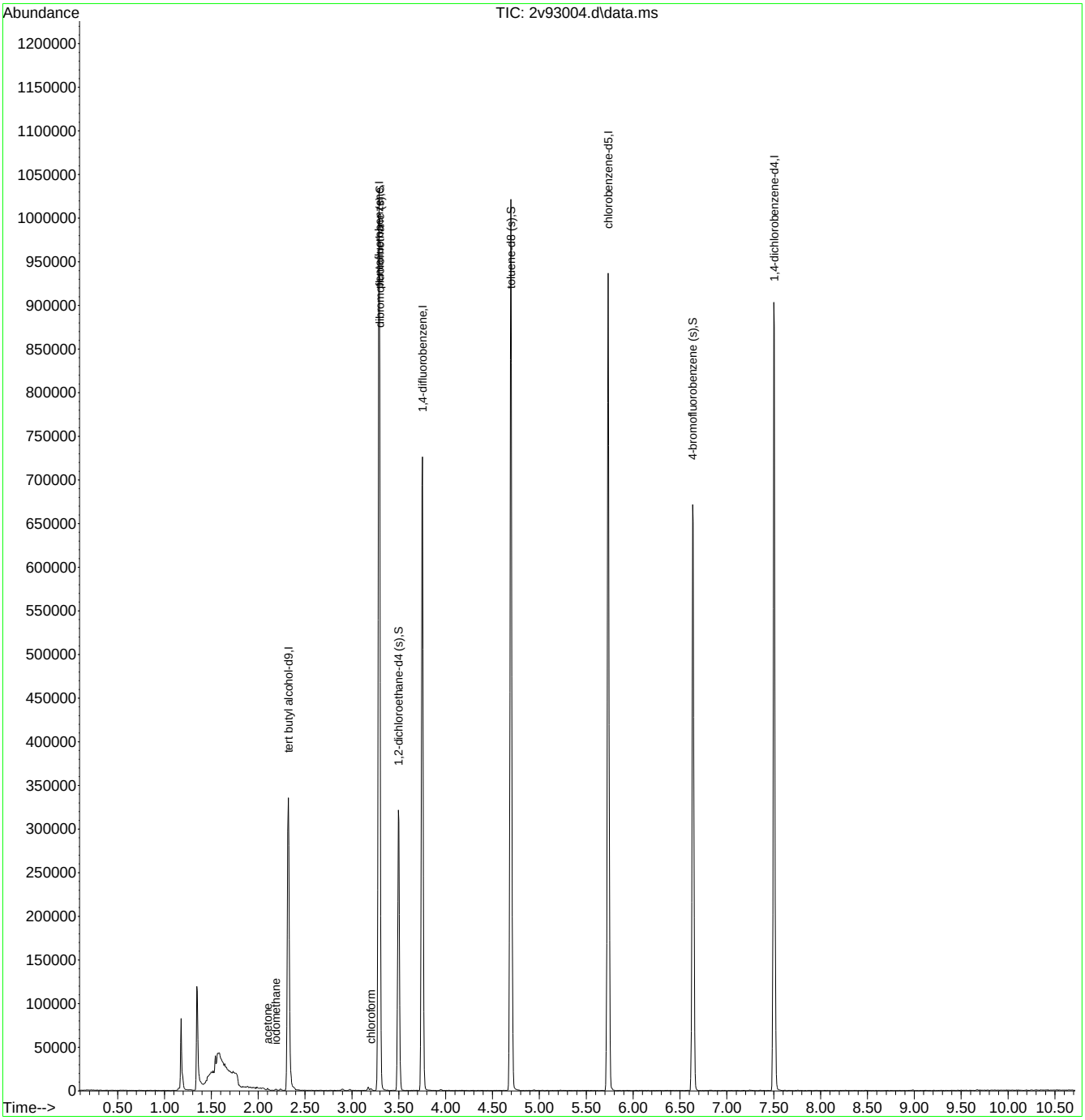
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 257981 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.291 | 168 | 311259 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 428986 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 395248 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 178389 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.296 | 113 | 153511 | 49.46 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.92% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 143217 | 47.08 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 94.16% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 493442 | 50.72 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.44% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 149290 | 46.87 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.74% | | | |
| Target Compounds | | | | | | Qvalue |
| 18) acetone | 2.101 | 58 | 293 | 0.73 | ug/L | 87 |
| 20) iodomethane | 2.190 | 142 | 1053 | 2.10 | ug/L | 82 |
| 41) chloroform | 3.202 | 83 | 1172 | 0.21 | ug/L | 72 |

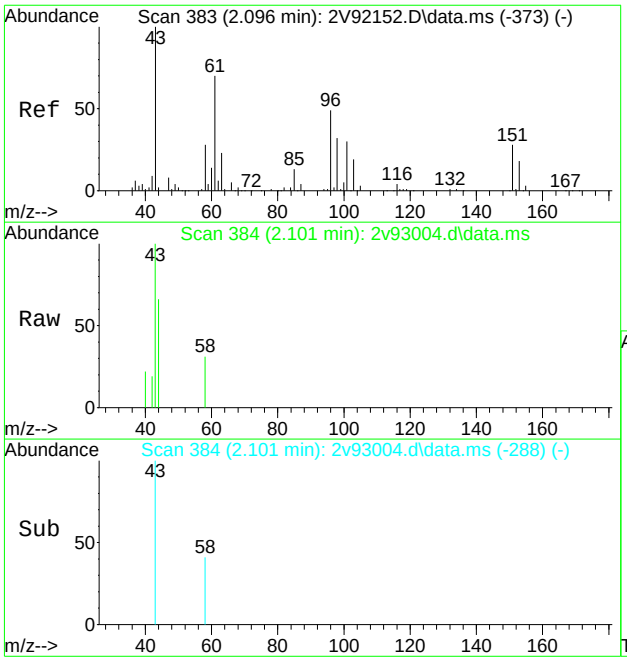
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93004.d
Acq On : 29 Sep 2022 11:11 pm
Operator : KYLEM
Sample : mb Inst : MS2V
Misc : MS46075,V2V3777,5,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 01:35:06 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

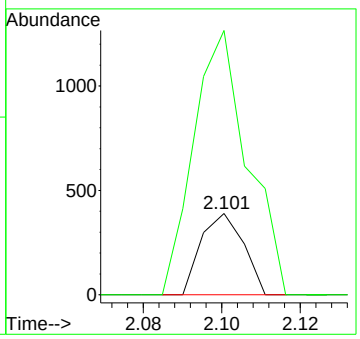


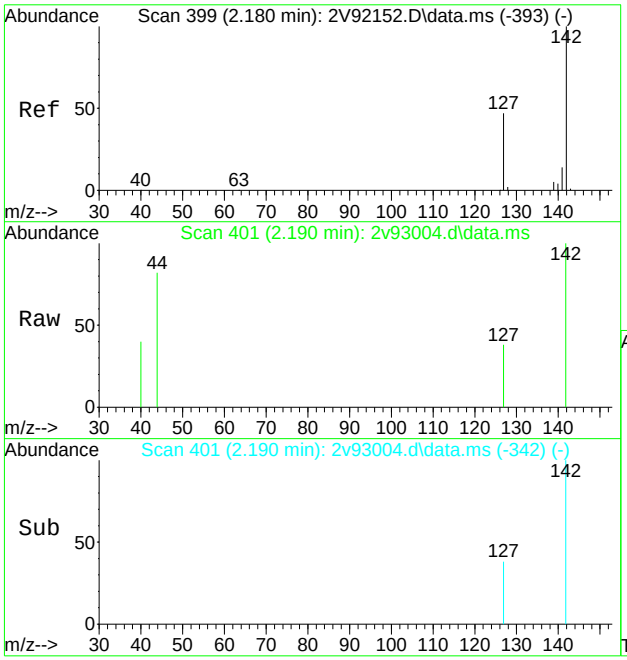



#18
acetone
Concen: 0.73 ug/L
RT: 2.101 min Scan# 384
Delta R.T. 0.005 min
Lab File: 2v93004.d
Acq: 29 Sep 2022 11:11 pm

Tgt Ion: 58 Resp: 293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 324.9 | 322.3 | 382.3 |

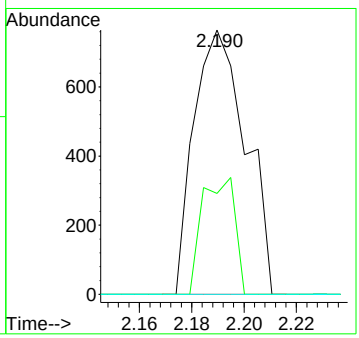


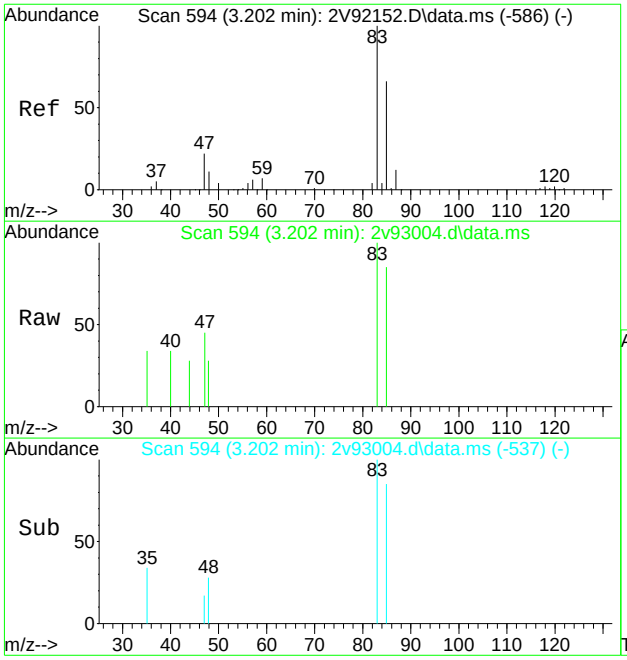




#20
iodomethane
Concen: 2.10 ug/L
RT: 2.190 min Scan# 401
Delta R.T. 0.010 min
Lab File: 2v93004.d
Acq: 29 Sep 2022 11:11 pm

Tgt Ion:142 Resp: 1053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 38.2 | 16.8 | 76.8 |
| 141 | 0.0 | 0.0 | 44.0 |

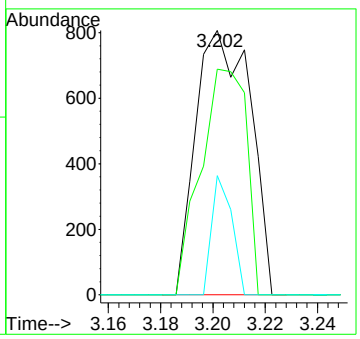





#41
chloroform
Concen: 0.21 ug/L
RT: 3.202 min Scan# 594
Delta R.T. -0.000 min
Lab File: 2v93004.d
Acq: 29 Sep 2022 11:11 pm

Tgt Ion: 83 Resp: 1172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 85.4 | 35.9 | 95.9 |
| 47 | 45.1 | 0.0 | 56.5 |



Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220442.d
Acq On : 30 Sep 2022 11:18 am
Operator : nicoleh
Sample : mb Inst : GCMS2A
Misc : MS62546,V2A9583,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 20:36:55 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

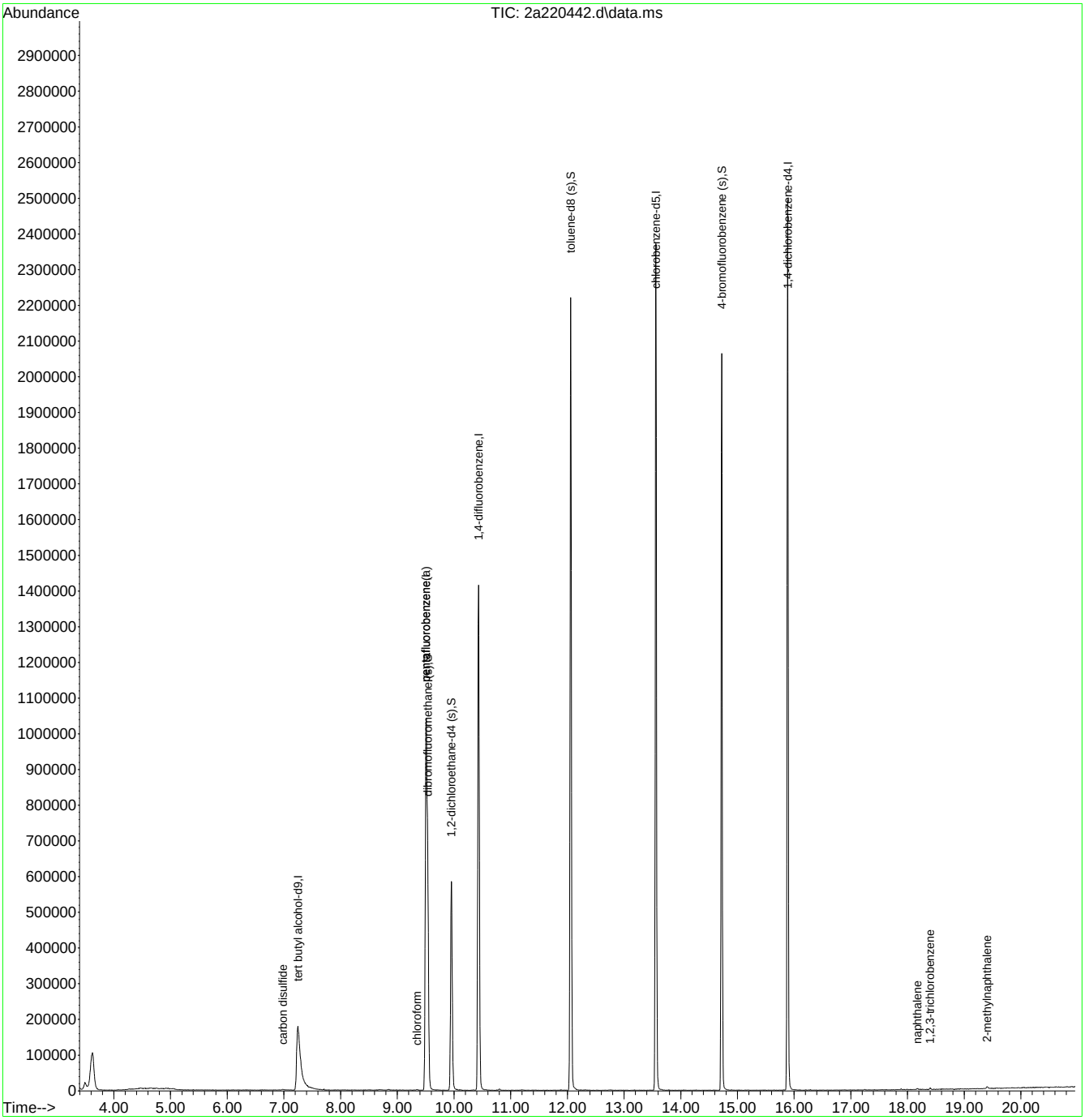
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.246 | 65 | 499433 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.505 | 168 | 738634 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.433 | 114 | 1157020 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.563 | 117 | 1184465 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 576964 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.505 | 168 | 738109 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 380735 | 54.76 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 109.52% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.951 | 65 | 445144 | 41.38 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 82.76% | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 1335343 | 46.02 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.04% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 588872 | 55.17 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 110.34% | | | |
| Target Compounds | | | | | | Qvalue |
| 21) carbon disulfide | 6.978 | 76 | 5073 | 0.28 | ug/L | 82 |
| 40) chloroform | 9.343 | 83 | 1660 | 0.13 | ug/L # | 63 |
| 120) naphthalene | 18.172 | 128 | 3451 | 0.13 | ug/L | 81 |
| 121) 1,2,3-trichlorobenzene | 18.397 | 180 | 1813 | 0.18 | ug/L | 76 |
| 123) 2-methylnaphthalene | 19.404 | 142 | 3607 | 0.27 | ug/L # | 77 |

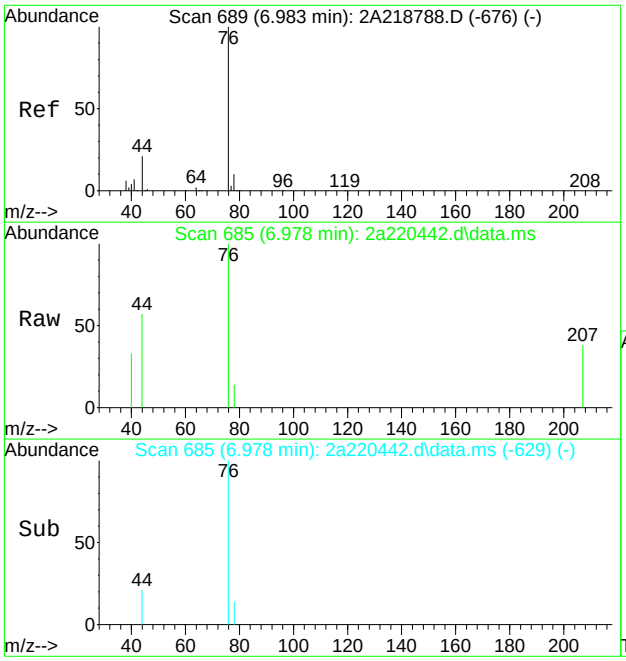
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220442.d
Acq On : 30 Sep 2022 11:18 am
Operator : nicoleh
Sample : mb Inst : GCMS2A
Misc : MS62546,V2A9583,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 20:36:55 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

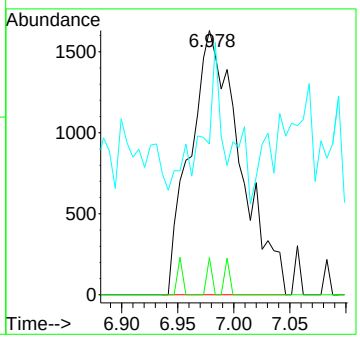


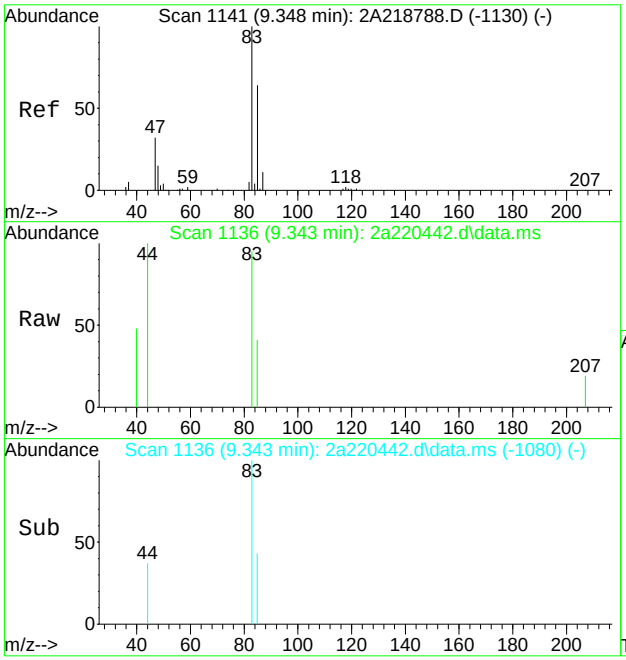



#21
carbon disulfide
Concen: 0.28 ug/L
RT: 6.978 min Scan# 685
Delta R.T. -0.005 min
Lab File: 2a220442.d
Acq: 30 Sep 2022 11:18 am

Tgt Ion: 76 Resp: 5073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 14.2 | 0.0 | 39.5 |
| 44 | 11.2 | 0.0 | 50.6 |

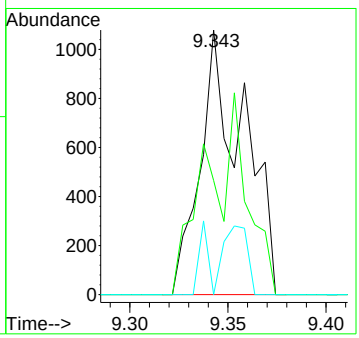


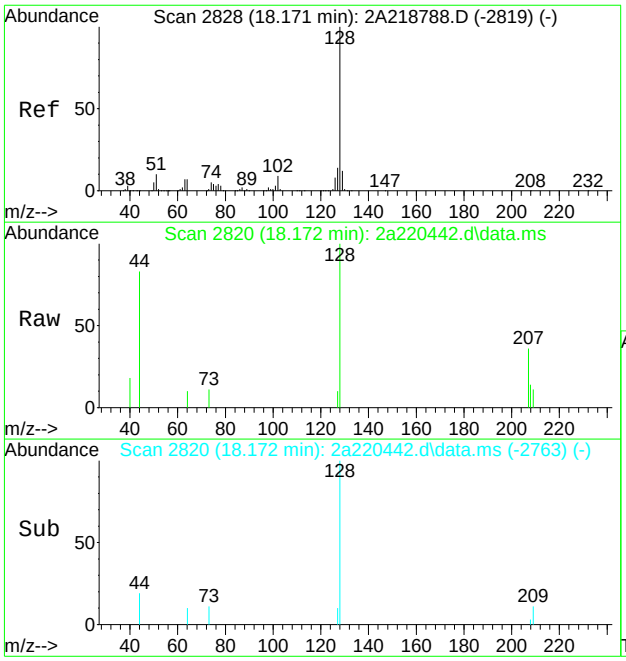




#40
chloroform
Concen: 0.13 ug/L
RT: 9.343 min Scan# 1136
Delta R.T. -0.005 min
Lab File: 2a220442.d
Acq: 30 Sep 2022 11:18 am

Tgt Ion: 83 Resp: 1660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 43.1 | 34.2 | 94.2 |
| 47 | 0.0 | 2.7 | 62.7# |

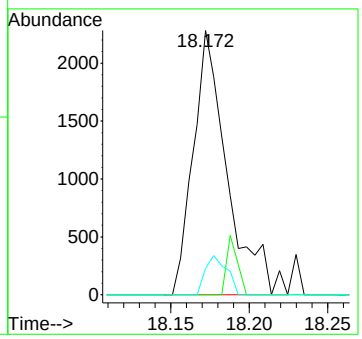


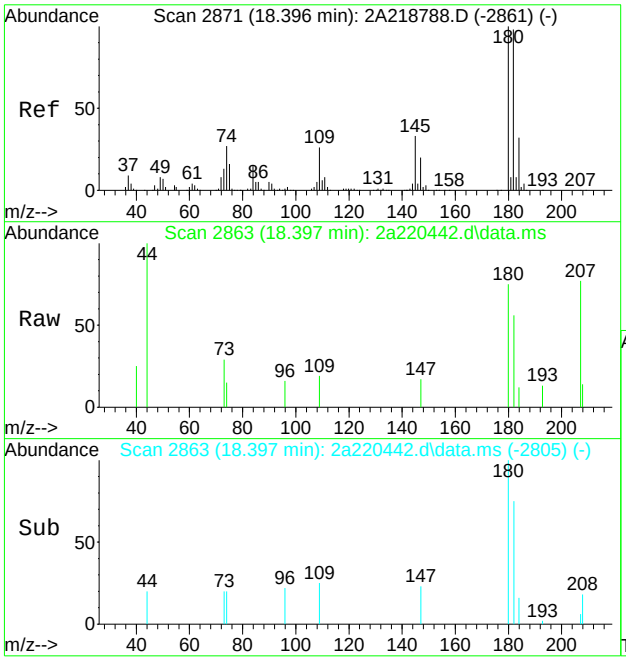



#120
naphthalene
Concen: 0.13 ug/L
RT: 18.172 min Scan# 2820
Delta R.T. 0.001 min
Lab File: 2a220442.d
Acq: 30 Sep 2022 11:18 am

Tgt Ion:128 Resp: 3451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 0.0 | 0.0 | 41.7 |
| 127 | 10.0 | 0.0 | 43.8 |

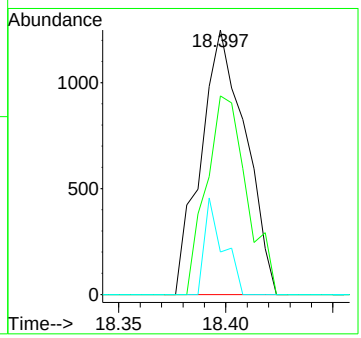


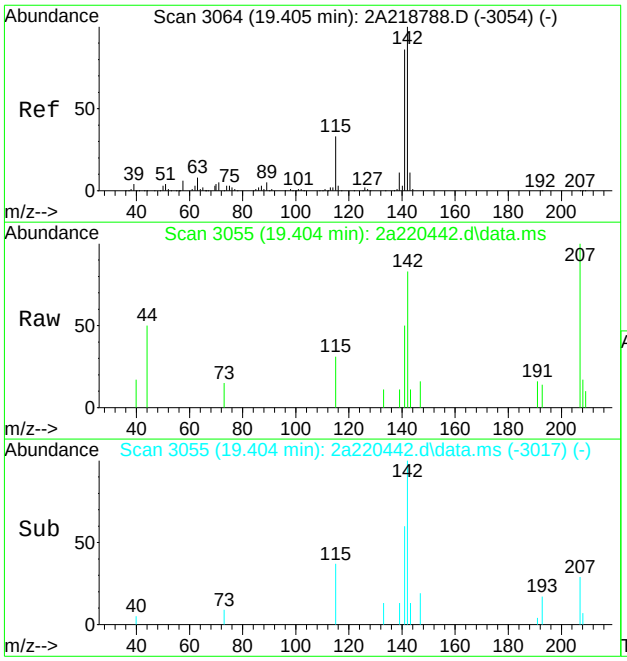




#121
1,2,3-trichlorobenzene
Concen: 0.18 ug/L
RT: 18.397 min Scan# 2863
Delta R.T. 0.002 min
Lab File: 2a220442.d
Acq: 30 Sep 2022 11:18 am

Tgt Ion:180 Resp: 1813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 75.1 | 67.7 | 127.7 |
| 184 | 16.0 | 2.1 | 62.1 |

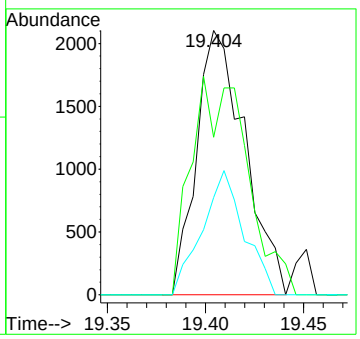





#123
2-methylnaphthalene
Concen: 0.27 ug/L
RT: 19.404 min Scan# 3055
Delta R.T. -0.001 min
Lab File: 2a220442.d
Acq: 30 Sep 2022 11:18 am

Tgt Ion:142 Resp: 3607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 59.6 | 66.1 | 106.1# |
| 115 | 36.8 | 12.9 | 52.9 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226609.d
Acq On : 30 Sep 2022 12:29 pm
Operator : nickw
Sample : mb Inst : MSDTEST1A
Misc : MS62562, V1A9705,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 07:59:49 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

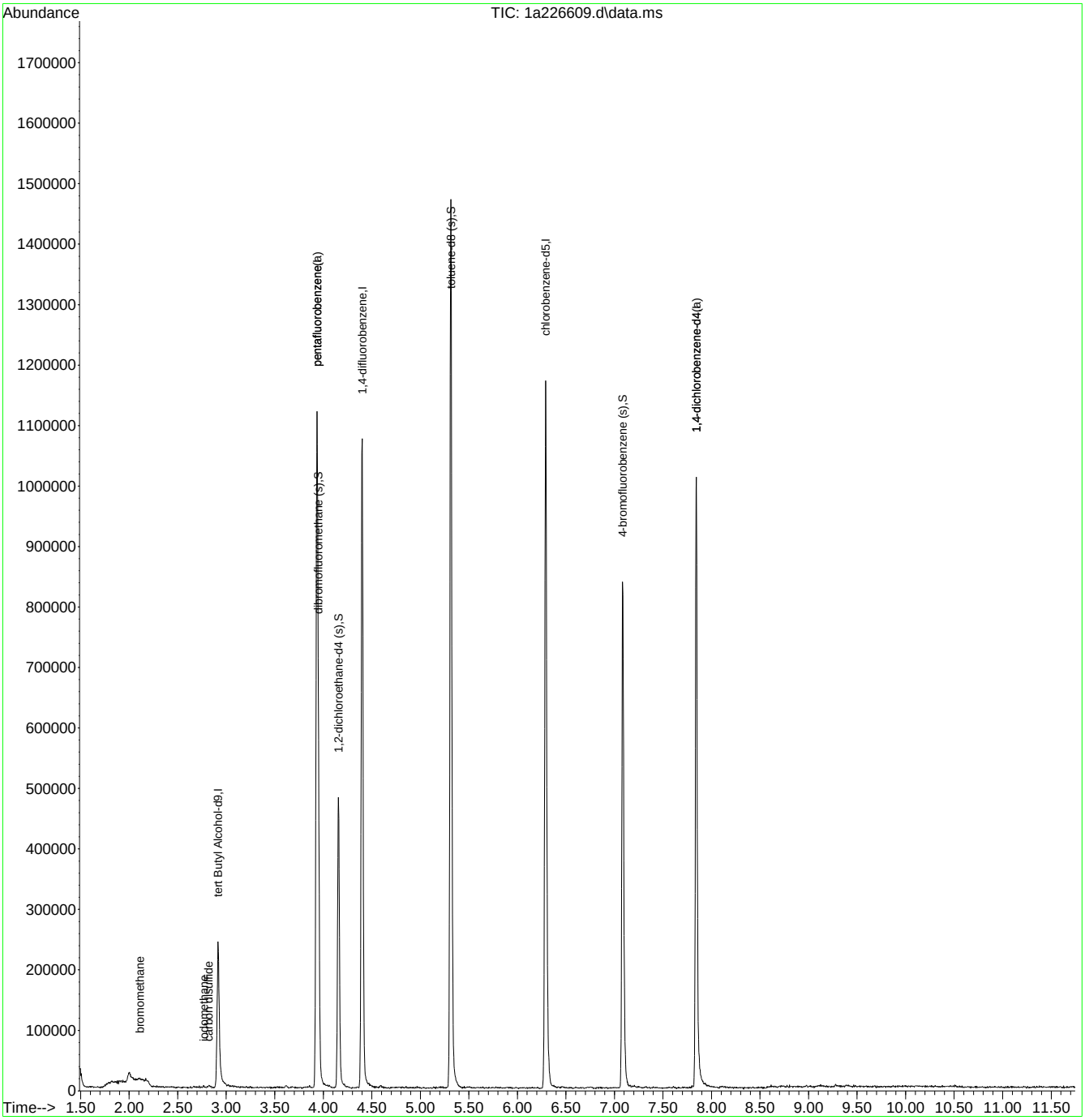
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.915 | 65 | 205892 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.936 | 168 | 465545 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 656905 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 551295 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 213217 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 3.936 | 168 | 465545 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 7.844 | 152 | 213217 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 200323 | 48.83 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.66% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 232697 | 51.16 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 102.32% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 763749 | 51.50 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.00% | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 215687 | 48.76 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.52% | | | |
| Target Compounds | | | | | | Qvalue |
| 11) bromomethane | 2.110 | 96 | 2149 | 0.53 | ug/L | 79 |
| 20) iodomethane | 2.771 | 142 | 1935 | 1.12 | ug/L | 67 |
| 22) carbon disulfide | 2.819 | 76 | 2736 | 0.28 | ug/L | 68 |

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

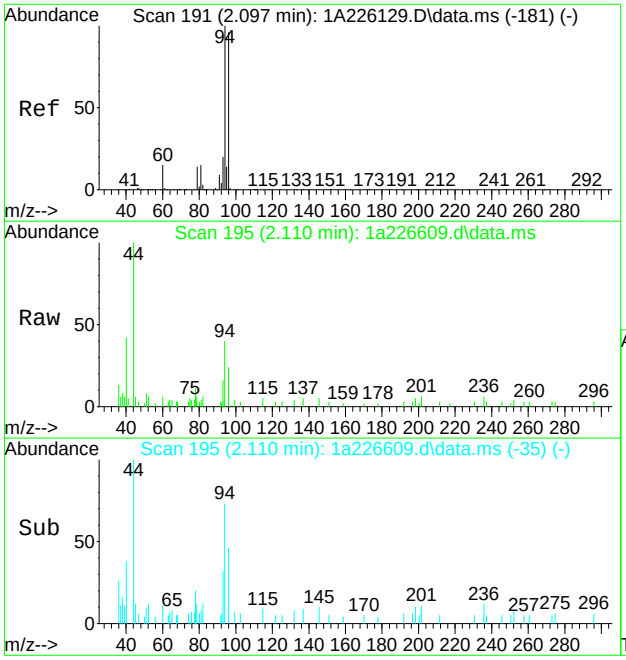
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226609.d
Acq On : 30 Sep 2022 12:29 pm
Operator : nickw
Sample : mb Inst : MSDTEST1A
Misc : MS62562, V1A9705,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 07:59:49 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration



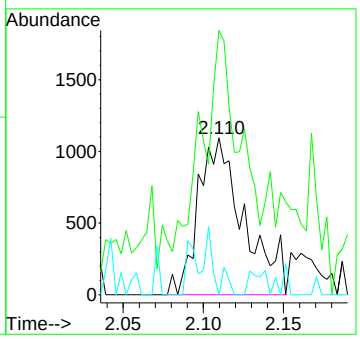

M1A9688.M Mon Oct 03 18:38:23 2022 Page: 2

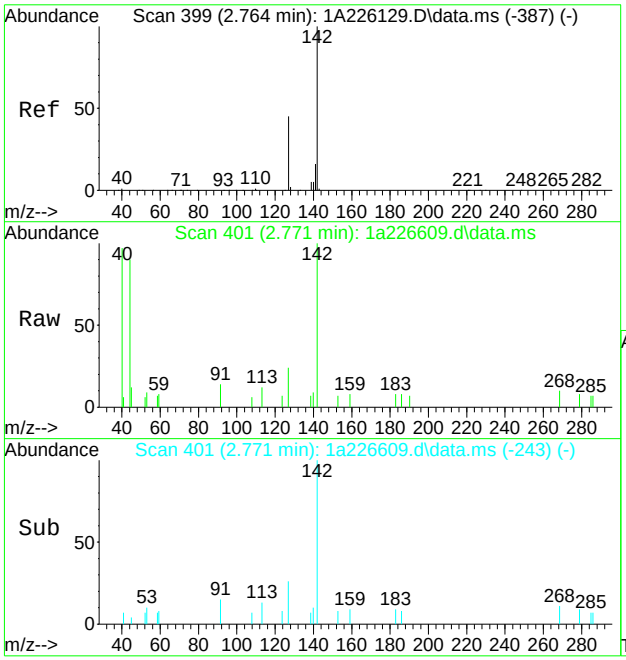



#11
bromomethane
Concen: 0.53 ug/L
RT: 2.110 min Scan# 195
Delta R.T. 0.013 min
Lab File: 1a226609.d
Acq: 30 Sep 2022 12:29 pm

Tgt Ion: 96 Resp: 2149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 94 | 123.8 | 74.0 | 134.0 |
| 95 | 0.0 | 0.0 | 44.8 |

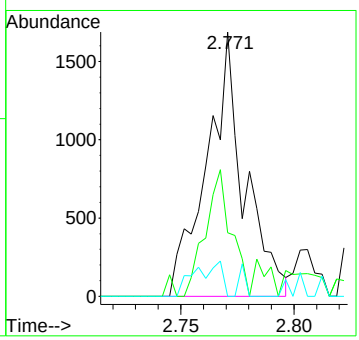


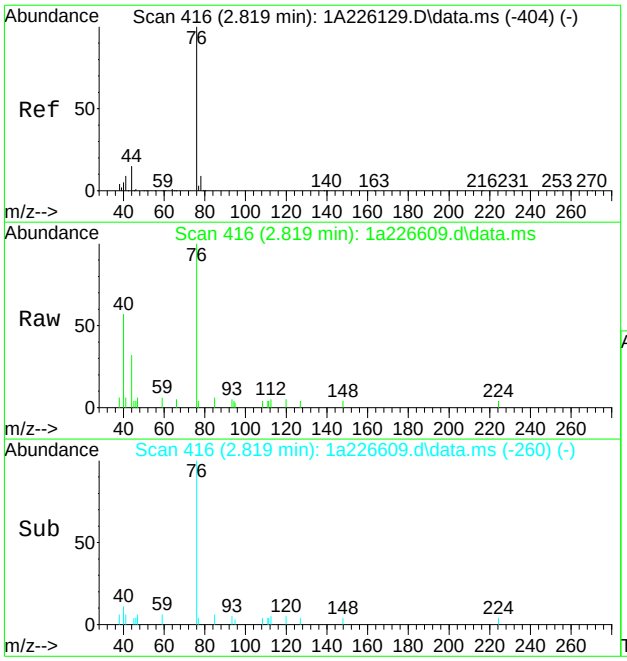




#20
iodomethane
Concen: 1.12 ug/L
RT: 2.771 min Scan# 401
Delta R.T. 0.007 min
Lab File: 1a226609.d
Acq: 30 Sep 2022 12:29 pm

Tgt Ion:142 Resp: 1935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 24.1 | 14.5 | 74.5 |
| 141 | 0.0 | 0.0 | 46.4 |

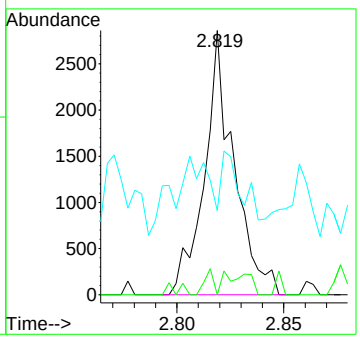





#22
carbon disulfide
Concen: 0.28 ug/L
RT: 2.819 min Scan# 416
Delta R.T. -0.000 min
Lab File: 1a226609.d
Acq: 30 Sep 2022 12:29 pm

Tgt Ion: 76 Resp: 2736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 0.0 | 0.0 | 39.4 |
| 44 | 0.0 | 0.0 | 45.3 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-3-22\v2v3782- due today\
Data File : 2v93128.d
Acq On : 3 Oct 2022 1:04 pm
Operator : taylors
Sample : mb
Misc : MS62108,V2V3782,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 03 16:11:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

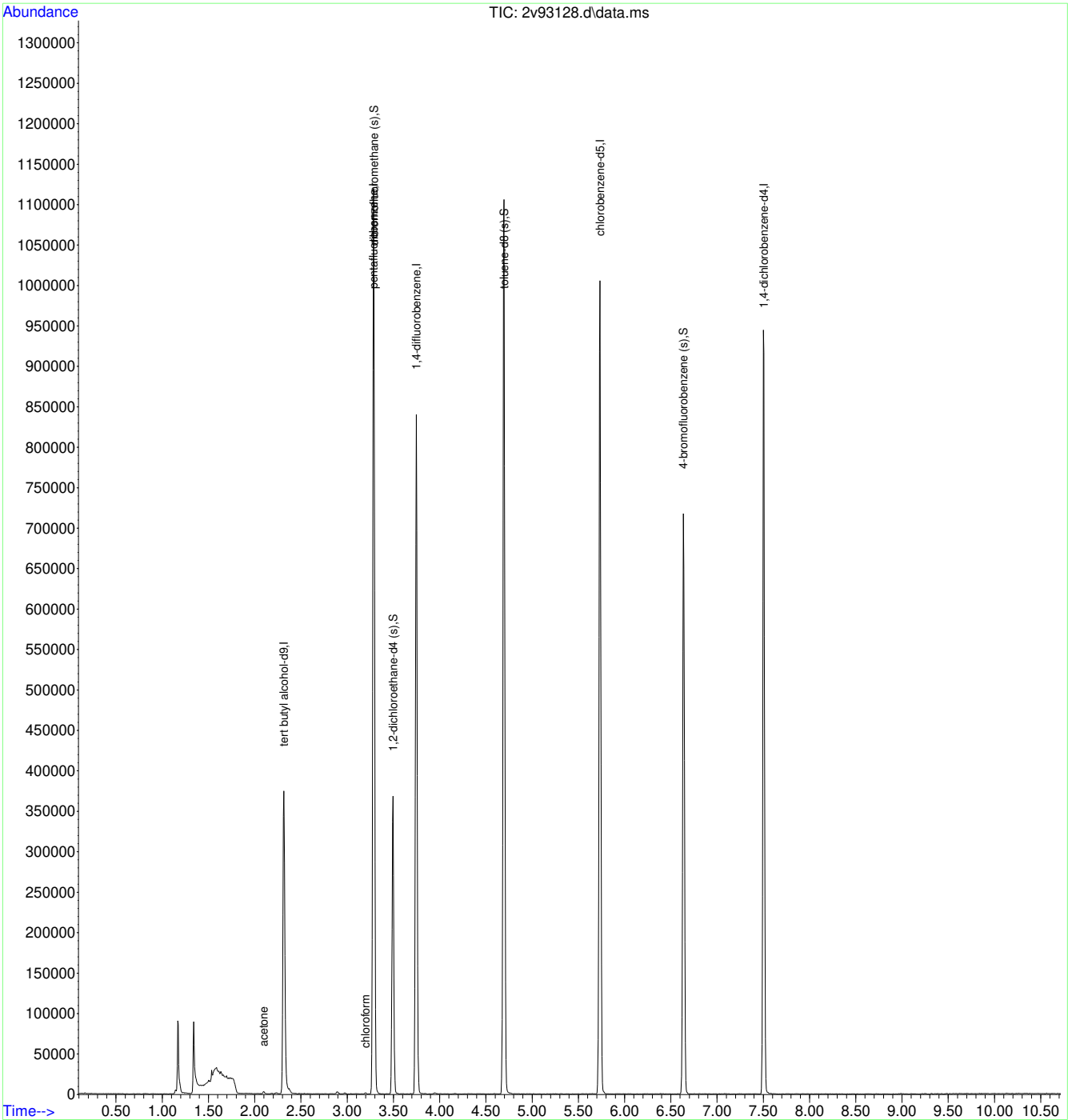
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 287200 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 330941 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 475698 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 425303 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 182523 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 172124 | 52.16 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.32% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 164461 | 48.76 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 97.52% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 552057 | 52.74 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 105.48% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 163832 | 50.27 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.54% | | | |
| Target Compounds | | | | | | Qvalue |
| 18) acetone | 2.096 | 58 | 463 | 1.08 | ug/L | 100 |
| 41) chloroform | 3.197 | 83 | 686 | 0.12 | ug/L | 73 |

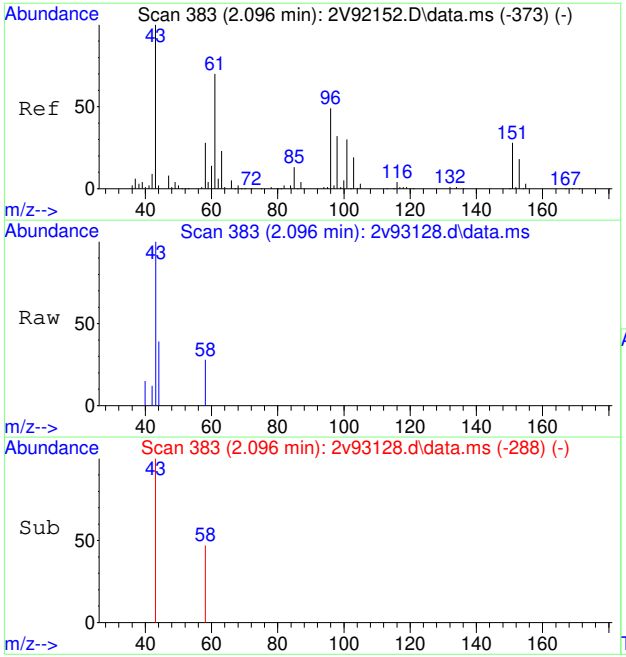
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-3-22\v2v3782- due today\
Data File : 2v93128.d
Acq On : 3 Oct 2022 1:04 pm
Operator : taylors
Sample : mb
Misc : MS62108,V2V3782,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 03 16:11:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

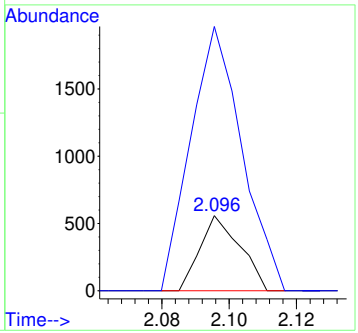


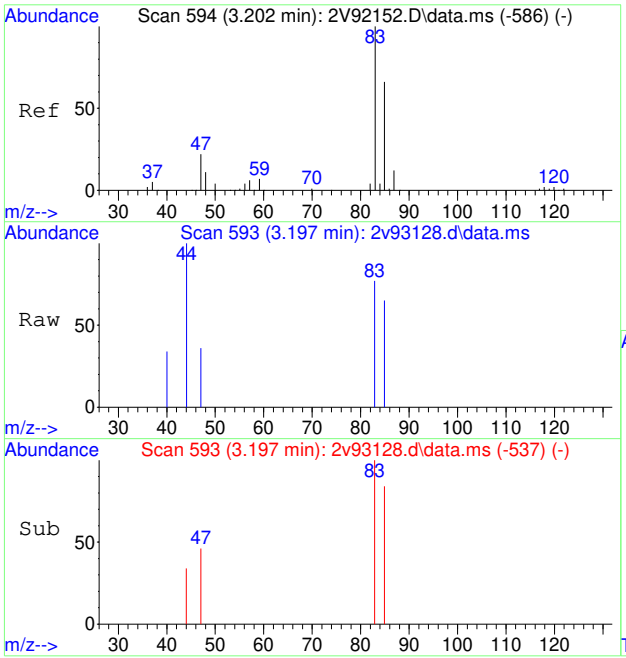



#18
acetone
Concen: 1.08 ug/L
RT: 2.096 min Scan# 383
Delta R.T. -0.000 min
Lab File: 2v93128.d
Acq: 3 Oct 2022 1:04 pm

Tgt Ion: 58 Resp: 463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 351.7 | 322.3 | 382.3 |

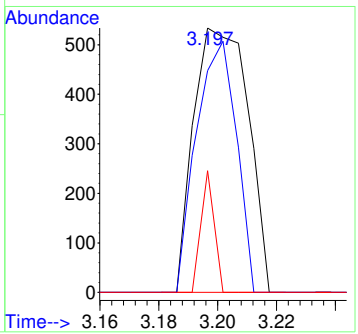



#41
chloroform
Concen: 0.12 ug/L
RT: 3.197 min Scan# 593
Delta R.T. -0.005 min
Lab File: 2v93128.d
Acq: 3 Oct 2022 1:04 pm

Tgt Ion: 83 Resp: 686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 83.9 | 35.9 | 95.9 |
| 47 | 46.1 | 0.0 | 56.5 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\vl10519-due today\
Data File : l347834.d
Acq On : 4 Oct 2022 12:29 pm
Operator : nicoleh
Sample : mb Inst : GCMSL
Misc : MS46075,VL10519,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 01:50:06 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

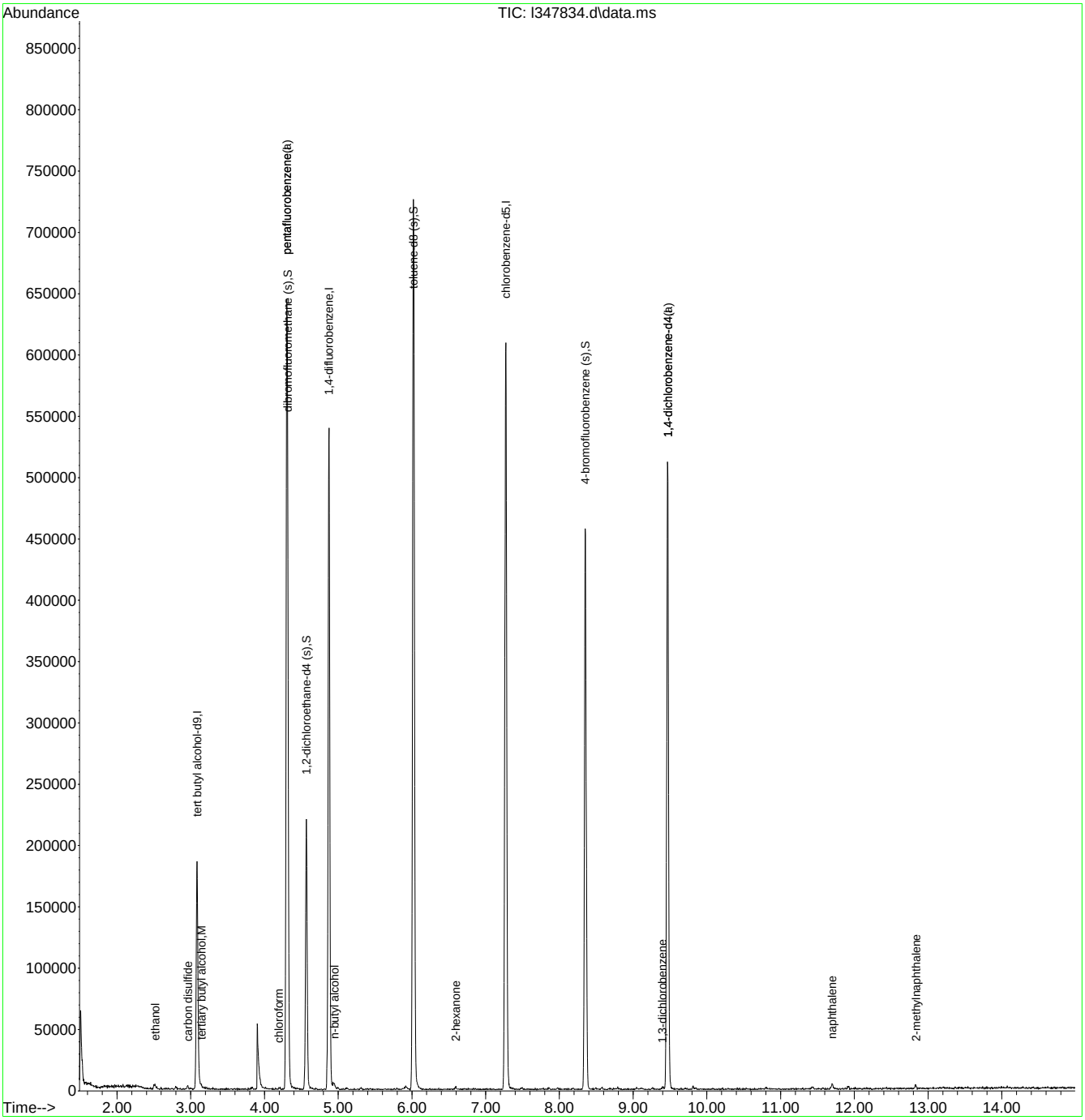
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.085 | 65 | 183429 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.305 | 168 | 270911 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.873 | 114 | 381732 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.273 | 117 | 350233 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.471 | 152 | 146355 | 50.00 | ug/L | 0.00 |
| 123) pentafluorobenzene(a) | 4.305 | 168 | 271358 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.471 | 152 | 146333 | 50.00 | ug/L | 0.01 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.314 | 113 | 117194 | 47.90 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.80% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.568 | 65 | 128615 | 46.16 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 92.32% | | | |
| 73) toluene-d8 (s) | 6.022 | 98 | 473517 | 49.12 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.24% | | | |
| 96) 4-bromofluorobenzene (s) | 8.351 | 95 | 169743 | 44.52 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 89.04% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) ethanol | 2.517 | 45 | 4063 | 88.73 | ug/L | 72 |
| 4) tertiary butyl alcohol | 3.146 | 59 | 851 | 1.51 | ug/L | 60 |
| 22) carbon disulfide | 2.963 | 76 | 3179 | 0.41 | ug/L | 70 |
| 42) chloroform | 4.196 | 83 | 866 | 0.16 | ug/L | 72 |
| 55) n-butyl alcohol | 4.950 | 56 | 2305 | 12.18 | ug/L | 80 |
| 78) 2-hexanone | 6.596 | 58 | 680 | 0.37 | ug/L | 84 |
| 108) 1,3-dichlorobenzene | 9.394 | 146 | 968 | 0.19 | ug/L | 80 |
| 118) naphthalene | 11.698 | 128 | 4597 | 0.53 | ug/L | 96 |
| 122) 2-methylnaphthalene | 12.837 | 142 | 1563 | 0.50 | ug/L | 79 |

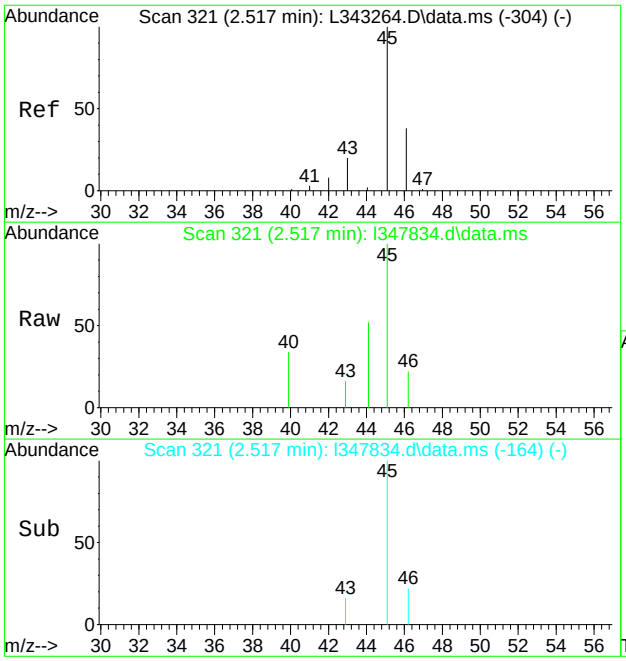
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\vl10519-due today\
Data File : l347834.d
Acq On : 4 Oct 2022 12:29 pm
Operator : nicoleh
Sample : mb Inst : GCMSL
Misc : MS46075,VL10519,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 01:50:06 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

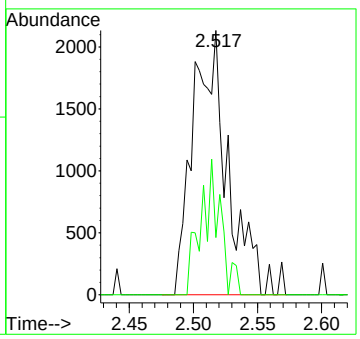


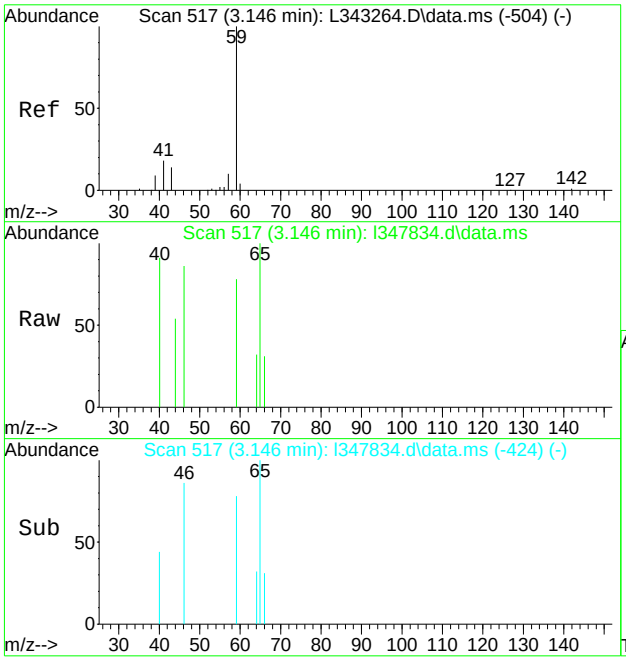



#3
ethanol
Concen: 88.73 ug/L
RT: 2.517 min Scan# 321
Delta R.T. 0.003 min
Lab File: l347834.d
Acq: 4 Oct 2022 12:29 pm

Tgt Ion: 45 Resp: 4063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 21.6 | 18.5 | 58.5 |

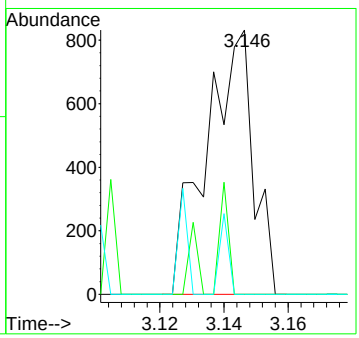


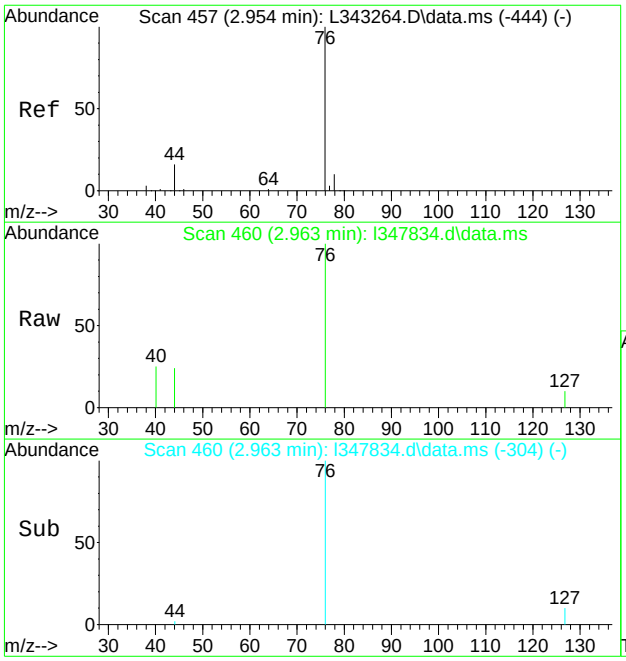




#4
tertiary butyl alcohol
Concen: 1.51 ug/L
RT: 3.146 min Scan# 517
Delta R.T. -0.003 min
Lab File: l347834.d
Acq: 4 Oct 2022 12:29 pm

Tgt Ion: 59 Resp: 851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 41 | 0.0 | 0.0 | 49.9 |
| 43 | 0.0 | 0.0 | 44.2 |

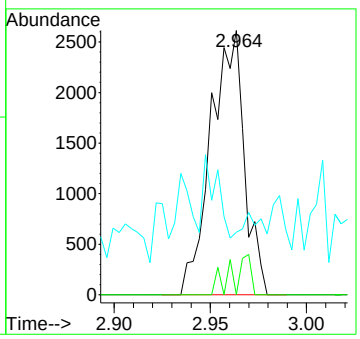


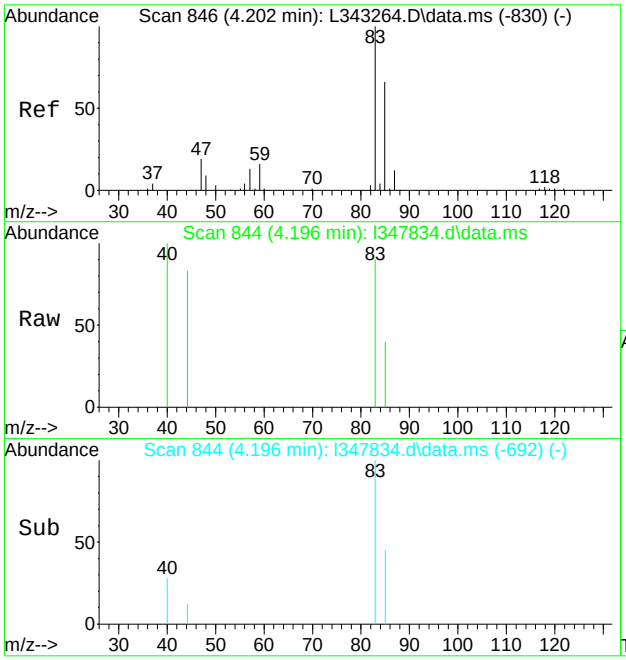



#22
carbon disulfide
Concen: 0.41 ug/L
RT: 2.963 min Scan# 460
Delta R.T. 0.000 min
Lab File: l347834.d
Acq: 4 Oct 2022 12:29 pm

Tgt Ion: 76 Resp: 3179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 0.0 | 0.0 | 39.6 |
| 44 | 0.0 | 0.0 | 42.9 |

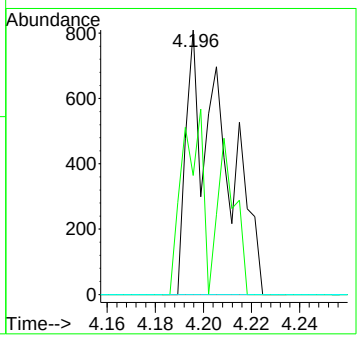


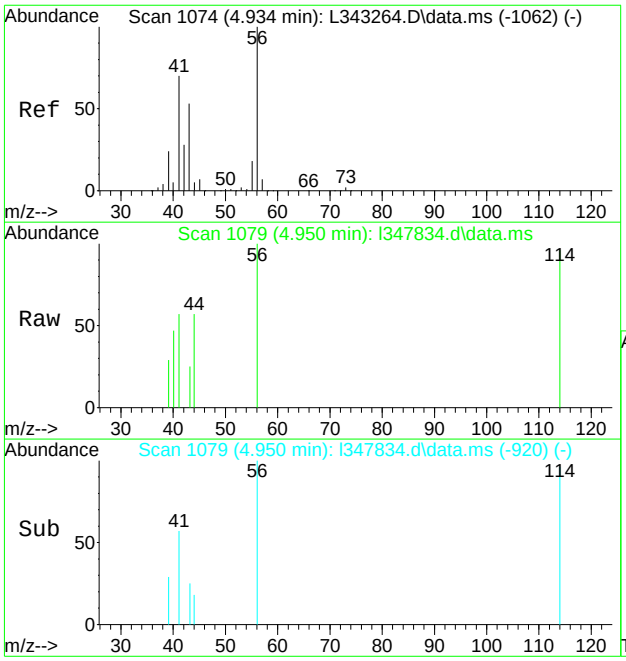




#42
chloroform
Concen: 0.16 ug/L
RT: 4.196 min Scan# 844
Delta R.T. -0.012 min
Lab File: l347834.d
Acq: 4 Oct 2022 12:29 pm

Tgt Ion: 83 Resp: 866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 44.9 | 32.4 | 92.4 |
| 47 | 0.0 | 0.0 | 50.0 |

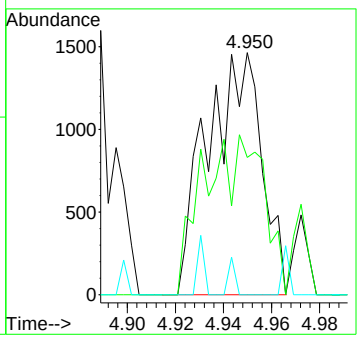


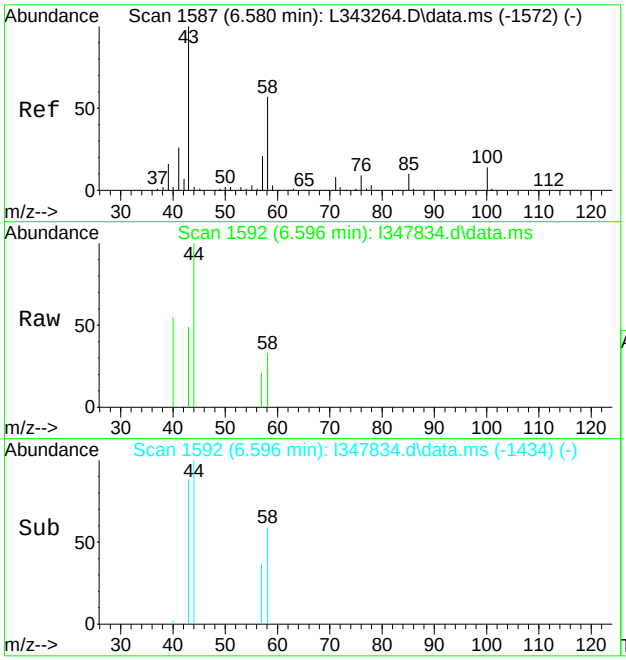



#55
n-butyl alcohol
Concen: 12.18 ug/L
RT: 4.950 min Scan# 1079
Delta R.T. 0.010 min
Lab File: l347834.d
Acq: 4 Oct 2022 12:29 pm

Tgt Ion: 56 Resp: 2305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 41 | 56.7 | 38.4 | 98.4 |
| 55 | 0.0 | 0.0 | 48.6 |

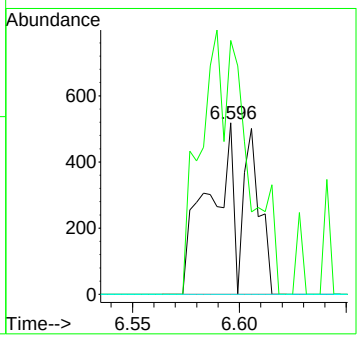


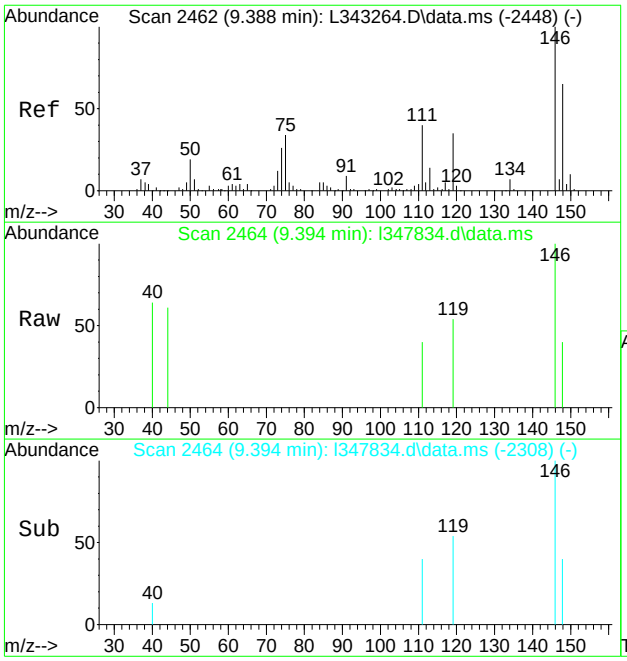




#78
2-hexanone
Concen: 0.37 ug/L
RT: 6.596 min Scan# 1592
Delta R.T. 0.007 min
Lab File: l347834.d
Acq: 4 Oct 2022 12:29 pm

Tgt Ion: 58 Resp: 680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 58 | 100 | | |
| 43 | 148.1 | 131.8 | 191.8 |
| 100 | 0.0 | 0.0 | 54.8 |

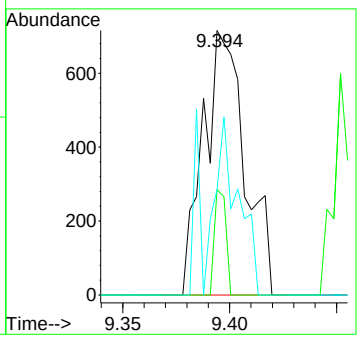


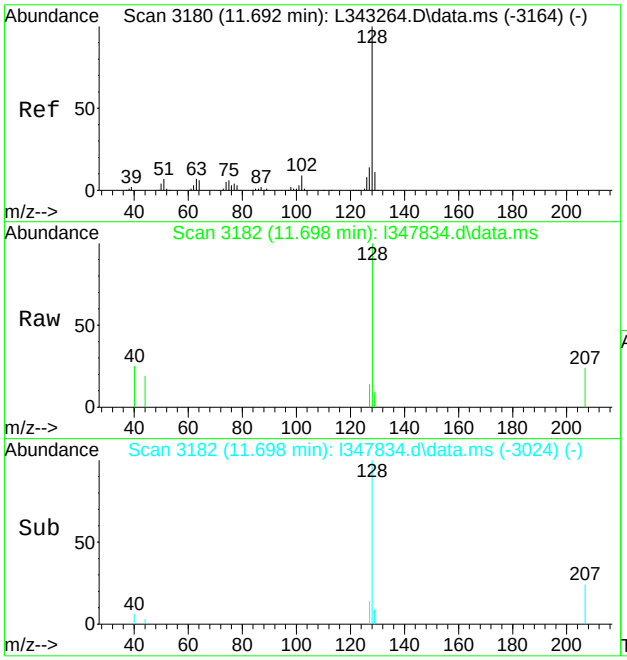



#108
1,3-dichlorobenzene
Concen: 0.19 ug/L
RT: 9.394 min Scan# 2464
Delta R.T. 0.000 min
Lab File: l347834.d
Acq: 4 Oct 2022 12:29 pm

Tgt Ion:146 Resp: 968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.8 | 15.0 | 75.0 |
| 148 | 39.8 | 32.5 | 92.5 |

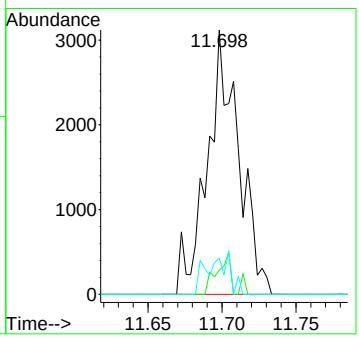


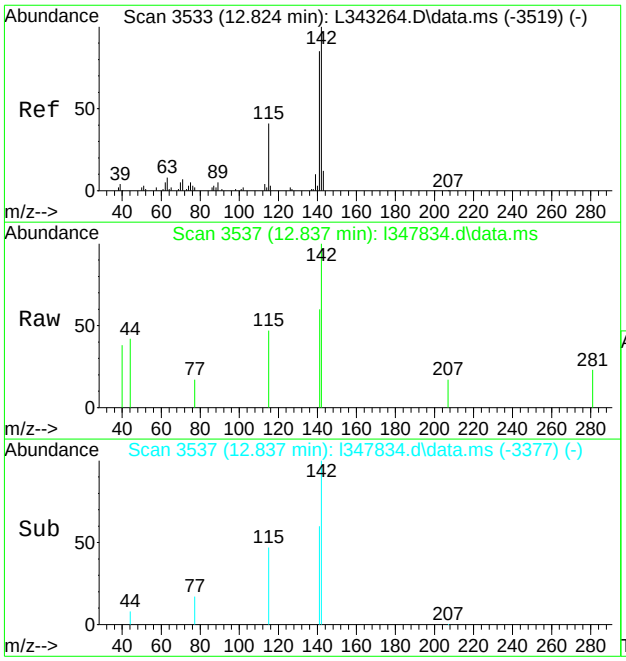




#118
naphthalene
Concen: 0.53 ug/L
RT: 11.698 min Scan# 3182
Delta R.T. 0.006 min
Lab File: l347834.d
Acq: 4 Oct 2022 12:29 pm

Tgt Ion:128 Resp: 4597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 9.1 | 0.0 | 41.1 |
| 127 | 13.8 | 0.0 | 42.3 |

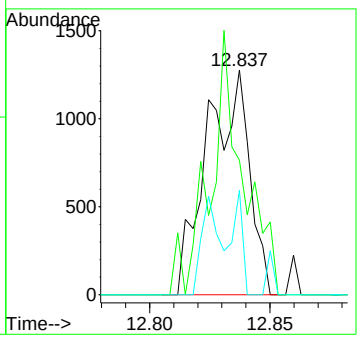





#122
2-methylnaphthalene
Concen: 0.50 ug/L
RT: 12.837 min Scan# 3537
Delta R.T. 0.013 min
Lab File: l347834.d
Acq: 4 Oct 2022 12:29 pm

Tgt Ion:142 Resp: 1563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 59.9 | 59.2 | 99.2 |
| 115 | 46.6 | 15.6 | 55.6 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226432.d
Acq On : 27 Sep 2022 10:32 am
Operator : nickw
Sample : bs Inst : MSDTEST1A
Misc : MS62471, V1A9698,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 11:01:36 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.918 | 65 | 242635 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.932 | 168 | 531290 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.398 | 114 | 787935 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 712152 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.841 | 152 | 298500 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 231948 | 49.54 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.08% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 257049 | 47.11 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 94.22% | | | |
| 73) toluene-d8 (s) | 5.312 | 98 | 911406 | 47.58 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.16% | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 298020 | 48.12 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.24% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.747 | 88 | 40049 | 1125.92 | ug/L | 98 |
| 3) ethanol | 2.415 | 45 | 126137 | 4190.70 | ug/L | 96 |
| 4) tertiary butyl alcohol | 2.963 | 59 | 127697 | 229.59 | ug/L | 95 |
| 6) chlorodifluoromethane | 1.644 | 51 | 165065 | 36.79 | ug/L | 98 |
| 7) dichlorodifluoromethane | 1.635 | 85 | 254837 | 38.74 | ug/L | 100 |
| 8) chloromethane | 1.776 | 50 | 180978 | 38.80 | ug/L | 96 |
| 9) vinyl chloride | 1.863 | 62 | 264004 | 40.61 | ug/L | 99 |
| 10) 1,3-butadiene | 1.888 | 54 | 183175 | 31.91 | ug/L | 98 |
| 11) bromomethane | 2.100 | 96 | 95326 | 44.51 | ug/L | 97 |
| 12) chloroethane | 2.171 | 64 | 171272 | 39.79 | ug/L | 99 |
| 13) trichlorofluoromethane | 2.338 | 101 | 359532 | 45.43 | ug/L | 98 |
| 14) ethyl ether | 2.498 | 74 | 112176 | 44.60 | ug/L | 96 |
| 15) acrolein | 2.588 | 56 | 40014 | 48.26 | ug/L | 91 |
| 16) freon 113 | 2.655 | 151 | 150206 | 45.17 | ug/L | 94 |
| 17) 1,1-dichloroethene | 2.662 | 96 | 162323 | 43.90 | ug/L | 99 |
| 18) acetone | 2.668 | 58 | 90634 | 194.06 | ug/L | 94 |
| 19) acetonitrile | 2.835 | 40 | 135749 | 425.65 | ug/L | 92 |
| 20) iodomethane | 2.764 | 142 | 108411 | 55.00 | ug/L | 99 |
| 21) iso-butyl alcohol | 2.845 | 43 | 177243 | 428.04 | ug/L | 99 |
| 22) carbon disulfide | 2.819 | 76 | 452916 | 40.99 | ug/L | 99 |
| 23) methylene chloride | 2.944 | 84 | 187114 | 43.12 | ug/L | 99 |
| 24) methyl acetate | 2.848 | 74 | 44490 | 43.19 | ug/L | 88 |
| 25) methyl tert butyl ether | 3.088 | 73 | 590722 | 45.61 | ug/L | 99 |
| 26) trans-1,2-dichloroethene | 3.104 | 96 | 182749 | 46.25 | ug/L | 98 |
| 27) hexane | 3.255 | 57 | 242150 | 46.65 | ug/L | 97 |
| 28) di-isopropyl ether | 3.342 | 45 | 537856 | 44.70 | ug/L | 92 |
| 29) ethyl tert-butyl ether | 3.550 | 59 | 577452 | 46.34 | ug/L | 98 |
| 30) 2-butanone | 3.650 | 72 | 138676 | 189.58 | ug/L | 97 |
| 31) 1,1-dichloroethane | 3.355 | 63 | 327993 | 45.40 | ug/L | 99 |
| 32) chloroprene | 3.400 | 53 | 253188 | 44.28 | ug/L | 99 |
| 33) acrylonitrile | 3.069 | 53 | 86362 | 44.09 | ug/L | 92 |
| 34) vinyl acetate | 3.329 | 86 | 48949 | 48.70 | ug/L # | 90 |
| 35) ethyl acetate | 3.653 | 45 | 37117 | 43.07 | ug/L | 93 |
| 36) 2,2-dichloropropane | 3.688 | 77 | 299387 | 59.38 | ug/L | 99 |
| 37) cis-1,2-dichloroethene | 3.679 | 96 | 215108 | 48.50 | ug/L | 95 |
| 38) propionitrile | 3.688 | 54 | 352366 | 458.13 | ug/L | 92 |
| 39) methyl acrylate | 3.695 | 85 | 47829 | 48.71 | ug/L # | 82 |
| 40) bromochloromethane | 3.814 | 128 | 109293 | 48.46 | ug/L | 97 |
| 41) tetrahydrofuran | 3.823 | 72 | 41357 | 44.74 | ug/L | 83 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226432.d
Acq On : 27 Sep 2022 10:32 am
Operator : nickw
Sample : bs Inst : MSDTEST1A
Misc : MS62471, V1A9698,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 11:01:36 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 42) | chloroform | 3.855 | 83 | 361082 | 44.89 | ug/L | | 99 |
| 44) | methacrylonitrile | 3.778 | 67 | 111628 | 46.97 | ug/L | | 99 |
| 45) | 1,1,1-trichloroethane | 3.977 | 97 | 316805 | 47.77 | ug/L | | 93 |
| 46) | cyclohexane | 4.029 | 84 | 269056 | 42.91 | ug/L | | 90 |
| 47) | 1,1-dichloropropene | 4.064 | 75 | 265726 | 46.03 | ug/L | | 97 |
| 48) | carbon tetrachloride | 4.070 | 117 | 282967 | 49.69 | ug/L | | 97 |
| 49) | isopropyl acetate | 4.144 | 87 | 59640 | 48.52 | ug/L | # | 89 |
| 50) | tert amyl alcohol | 4.131 | 55 | 51155 | 218.06 | ug/L | | 98 |
| 53) | tert-amyl methyl ether | 4.228 | 73 | 591318 | 45.65 | ug/L | | 99 |
| 54) | 2,2,4-trimethylpentane | 4.231 | 57 | 502162 | 48.60 | ug/L | | 98 |
| 55) | n-butyl alcohol | 4.436 | 56 | 268495 | 2015.25 | ug/L | | 95 |
| 56) | benzene | 4.186 | 78 | 758802 | 46.62 | ug/L | | 99 |
| 57) | heptane | 4.317 | 57 | 101239 | 50.45 | ug/L | | 98 |
| 58) | 1,2-dichloroethane | 4.202 | 62 | 278024 | 46.79 | ug/L | | 99 |
| 59) | trichloroethene | 4.561 | 95 | 215249 | 49.66 | ug/L | | 97 |
| 60) | ethyl acrylate | 4.561 | 55 | 322461 | 49.78 | ug/L | | 97 |
| 61) | 2-nitropropane | 4.988 | 41 | 91039 | 49.05 | ug/L | | 98 |
| 62) | 2-chloroethyl vinyl ether | 5.011 | 63 | 287455 | 296.09 | ug/L | | 97 |
| 63) | methyl methacrylate | 4.709 | 100 | 77685 | 52.17 | ug/L | # | 78 |
| 64) | 1,2-dichloropropane | 4.719 | 63 | 193599 | 46.41 | ug/L | | 94 |
| 65) | methylcyclohexane | 4.715 | 83 | 324996 | 48.84 | ug/L | | 98 |
| 66) | dibromomethane | 4.776 | 93 | 142282 | 47.27 | ug/L | | 96 |
| 67) | bromodichloromethane | 4.863 | 83 | 290927 | 47.34 | ug/L | | 100 |
| 68) | cis-1,3-dichloropropene | 5.132 | 75 | 337363 | 49.92 | ug/L | | 98 |
| 69) | epichlorohydrin | 5.055 | 57 | 71577 | 233.77 | ug/L | | 96 |
| 70) | 4-methyl-2-pentanone | 5.203 | 58 | 410047 | 188.64 | ug/L | | 98 |
| 71) | 3-methyl-1-butanol | 5.209 | 70 | 127019 | 842.51 | ug/L | | 97 |
| 74) | toluene | 5.360 | 92 | 498538 | 47.80 | ug/L | | 96 |
| 75) | trans-1,3-dichloropropene | 5.482 | 75 | 323175 | 53.80 | ug/L | | 94 |
| 76) | ethyl methacrylate | 5.489 | 69 | 312580 | 50.31 | ug/L | | 96 |
| 77) | 1,1,2-trichloroethane | 5.620 | 83 | 171375 | 47.16 | ug/L | | 99 |
| 78) | 2-hexanone | 5.739 | 58 | 413359 | 187.01 | ug/L | | 99 |
| 79) | tetrachloroethene | 5.704 | 166 | 222561 | 50.39 | ug/L | | 99 |
| 80) | 1,3-dichloropropane | 5.733 | 76 | 328890 | 46.91 | ug/L | | 97 |
| 81) | butyl acetate | 5.797 | 56 | 154058 | 49.77 | ug/L | | 96 |
| 82) | dibromochloromethane | 5.887 | 129 | 240474 | 48.45 | ug/L | | 99 |
| 83) | 1,2-dibromoethane | 5.983 | 107 | 225562 | 48.36 | ug/L | | 95 |
| 84) | n-butyl ether | 6.320 | 57 | 736631 | 48.33 | ug/L | | 98 |
| 85) | chlorobenzene | 6.310 | 112 | 561887 | 47.68 | ug/L | | 96 |
| 86) | 1,1,1,2-tetrachloroethane | 6.361 | 131 | 199293 | 49.23 | ug/L | | 98 |
| 87) | ethylbenzene | 6.361 | 91 | 927118 | 47.11 | ug/L | | 99 |
| 88) | m,p-xylene | 6.448 | 106 | 727034 | 99.29 | ug/L | | 99 |
| 89) | o-xylene | 6.718 | 106 | 365921 | 50.16 | ug/L | | 99 |
| 90) | butyl acrylate | 6.634 | 55 | 430592 | 53.78 | ug/L | | 97 |
| 91) | n-amyl acetate | 6.782 | 70 | 168067 | 53.17 | ug/L | | 98 |
| 92) | styrene | 6.727 | 104 | 630830 | 52.95 | ug/L | | 97 |
| 93) | bromoform | 6.865 | 173 | 167313 | 50.66 | ug/L | | 99 |
| 94) | isopropylbenzene | 6.955 | 105 | 935293 | 50.61 | ug/L | | 99 |
| 95) | cis-1,4-dichloro-2-butene | 6.990 | 88 | 87113 | 54.47 | ug/L | | 95 |
| 98) | bromobenzene | 7.193 | 156 | 240933 | 50.59 | ug/L | | 94 |
| 99) | 1,1,2,2-tetrachloroethane | 7.151 | 83 | 284376 | 45.40 | ug/L | | 96 |
| 100) | trans-1,4-dichloro-2-b... | 7.177 | 53 | 65209 | 52.62 | ug/L | | 96 |
| 101) | 1,2,3-trichloropropane | 7.202 | 110 | 88905 | 46.58 | ug/L | | 99 |
| 102) | n-propylbenzene | 7.234 | 91 | 1023907 | 48.74 | ug/L | | 99 |
| 103) | 2-chlorotoluene | 7.308 | 126 | 215454 | 49.19 | ug/L | | 95 |
| 104) | 4-chlorotoluene | 7.388 | 126 | 221743 | 49.83 | ug/L | | 93 |
| 105) | 1,3,5-trimethylbenzene | 7.347 | 105 | 698852 | 49.16 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226432.d
Acq On : 27 Sep 2022 10:32 am
Operator : nickw
Sample : bs Inst : MSDTEST1A
Misc : MS62471, V1A9698,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 11:01:36 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

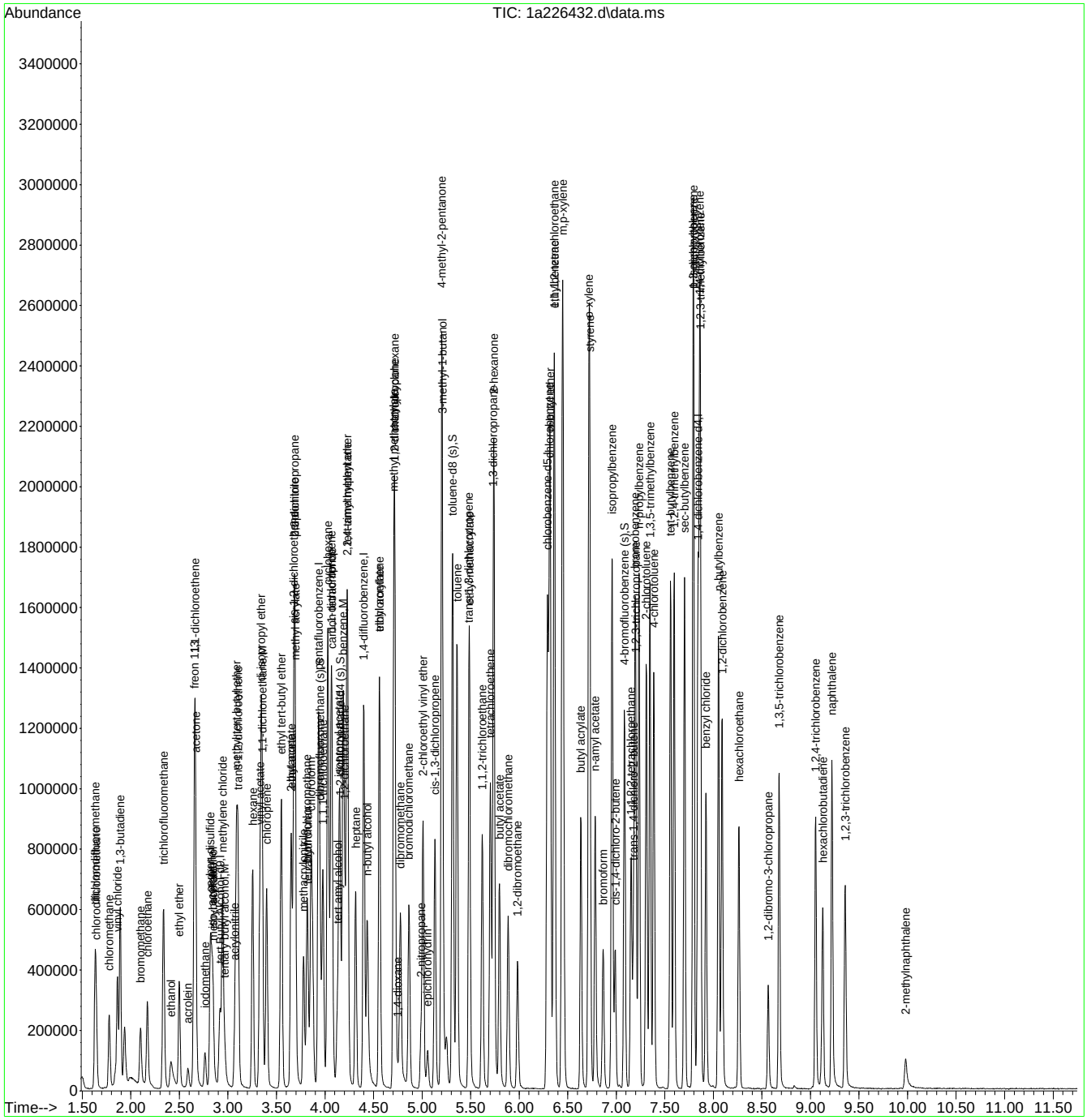
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) tert-butylbenzene | 7.558 | 119 | 630005 | 50.81 | ug/L | 96 |
| 107) 1,2,4-trimethylbenzene | 7.597 | 105 | 711164 | 49.66 | ug/L | 98 |
| 108) sec-butylbenzene | 7.703 | 105 | 885229 | 51.30 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.796 | 146 | 402621 | 51.44 | ug/L | 96 |
| 110) p-isopropyltoluene | 7.793 | 119 | 747820 | 53.43 | ug/L | 99 |
| 111) 1,2,3-trimethylbenzene | 7.866 | 105 | 706779 | 48.74 | ug/L | 99 |
| 112) 1,4-dichlorobenzene | 7.857 | 146 | 405699 | 48.72 | ug/L | 99 |
| 113) 1,2-dichlorobenzene | 8.091 | 146 | 384948 | 51.42 | ug/L | 97 |
| 114) n-butylbenzene | 8.053 | 92 | 344047 | 56.31 | ug/L | 96 |
| 115) 1,2-dibromo-3-chloropr... | 8.566 | 157 | 72128 | 52.04 | ug/L | 92 |
| 116) 1,3,5-trichlorobenzene | 8.678 | 180 | 241946 | 53.89 | ug/L | 99 |
| 117) 1,2,4-trichlorobenzene | 9.054 | 180 | 204514 | 55.36 | ug/L | 94 |
| 118) hexachlorobutadiene | 9.128 | 225 | 71540 | 52.41 | ug/L | 91 |
| 119) naphthalene | 9.221 | 128 | 674805 | 52.01 | ug/L | 99 |
| 120) 1,2,3-trichlorobenzene | 9.359 | 180 | 168301 | 52.68 | ug/L | 97 |
| 121) hexachloroethane | 8.264 | 119 | 119049 | 54.08 | ug/L | 93 |
| 122) benzyl chloride | 7.924 | 91 | 519981 | 73.64 | ug/L | 99 |
| 123) 2-methylnaphthalene | 9.981 | 142 | 66150 | 22.92 | ug/L | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226432.d
Acq On : 27 Sep 2022 10:32 am
Operator : nickw
Sample : bs Inst : MSDTEST1A
Misc : MS62471, V1A9698,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 11:01:36 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92882.d
Acq On : 27 Sep 2022 9:47 pm
Operator : KYLEM
Sample : bs
Misc : MS62460,V2V3773,5,,,,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 27 21:57:54 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 269817 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 313434 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 3.753 | 114 | 443794 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 423995 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.507 | 152 | 189090 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 161135 | 51.55 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.10% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.496 | 65 | 160136 | 50.89 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.78% | | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 510009 | 48.87 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.74% | | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 159390 | 47.21 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.42% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.886 | 45 | 476321 | 8691.18 | ug/L | | 99 |
| 3) tertiary butyl alcohol | 2.363 | 59 | 179048 | 213.03 | ug/L | | 97 |
| 4) 1,4-dioxane | 4.104 | 88 | 81983 | 1191.02 | ug/L | | 98 |
| 6) chlorodifluoromethane | 1.299 | 51 | 125057 | 42.72 | ug/L | | 98 |
| 7) dichlorodifluoromethane | 1.288 | 85 | 168004 | 47.97 | ug/L | | 99 |
| 8) chloromethane | 1.399 | 52 | 63365 | 47.93 | ug/L | | 99 |
| 9) vinyl chloride | 1.456 | 62 | 232232 | 54.09 | ug/L | | 99 |
| 10) bromomethane | 1.634 | 96 | 234925 | 78.67 | ug/L | | 97 |
| 11) chloroethane | 1.692 | 64 | 172320 | 66.93 | ug/L | | 97 |
| 12) trichlorofluoromethane | 1.828 | 101 | 551397 | 86.73 | ug/L | | 100 |
| 13) 1,3-butadiene | 1.477 | 54 | 187704 | 47.66 | ug/L | | 99 |
| 14) ethyl ether | 1.960 | 74 | 133369 | 88.79 | ug/L | | 96 |
| 15) acrolein | 2.033 | 56 | 56837 | 85.14 | ug/L | | 98 |
| 16) freon 113 | 2.096 | 151 | 117576 | 46.65 | ug/L | | 97 |
| 17) 1,1-dichloroethene | 2.096 | 61 | 189980 | 49.76 | ug/L | | 95 |
| 18) acetone | 2.101 | 58 | 86858 | 214.90 | ug/L | | 100 |
| 19) acetonitrile | 2.243 | 41 | 295910 | 570.07 | ug/L | | 98 |
| 20) iodomethane | 2.190 | 142 | 132820 | 54.27 | ug/L | | 97 |
| 21) carbon disulfide | 2.237 | 76 | 307478 | 44.09 | ug/L | | 99 |
| 22) methylene chloride | 2.348 | 84 | 130924 | 46.05 | ug/L | | 95 |
| 23) methyl acetate | 2.258 | 74 | 36854 | 50.75 | ug/L | # | 85 |
| 24) methyl tert butyl ether | 2.479 | 73 | 393924 | 51.00 | ug/L | | 100 |
| 25) trans-1,2-dichloroethene | 2.489 | 96 | 134621 | 49.94 | ug/L | | 98 |
| 26) hexane | 2.631 | 56 | 67581 | 45.23 | ug/L | | 93 |
| 27) di-isopropyl ether | 2.715 | 45 | 410949 | 53.82 | ug/L | | 98 |
| 28) ethyl tert-butyl ether | 2.914 | 59 | 381286 | 50.23 | ug/L | | 99 |
| 29) 1,1-dichloroethane | 2.720 | 63 | 234848 | 50.93 | ug/L | | 99 |
| 30) chloroprene | 2.762 | 53 | 172313 | 49.98 | ug/L | | 99 |
| 31) acrylonitrile | 2.458 | 53 | 78978 | 55.66 | ug/L | | 95 |
| 32) vinyl acetate | 2.699 | 86 | 32559 | 51.92 | ug/L | # | 84 |
| 33) ethyl acetate | 3.013 | 45 | 38064 | 56.26 | ug/L | | 92 |
| 34) 2-butanone | 3.003 | 72 | 124970 | 228.15 | ug/L | | 96 |
| 35) 2,2-dichloropropane | 3.040 | 77 | 202225 | 49.71 | ug/L | | 97 |
| 36) cis-1,2-dichloroethene | 3.029 | 96 | 161948 | 51.98 | ug/L | | 96 |
| 37) propionitrile | 3.040 | 54 | 379355 | 599.77 | ug/L | | 97 |
| 38) methyl acrylate | 3.045 | 85 | 37801 | 52.04 | ug/L | # | 77 |
| 39) bromochloromethane | 3.160 | 128 | 82679 | 50.75 | ug/L | | 93 |
| 40) tetrahydrofuran | 3.171 | 71 | 32432 | 48.74 | ug/L | | 99 |
| 41) chloroform | 3.202 | 83 | 258308 | 46.31 | ug/L | | 96 |
| 43) methacrylonitrile | 3.123 | 67 | 81055 | 52.38 | ug/L | | 92 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92882.d
Acq On : 27 Sep 2022 9:47 pm
Operator : KYLEM
Sample : bs
Misc : MS62460,V2V3773,5,,,,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 27 21:57:54 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 1,1,1-trichloroethane | 3.323 | 97 | 224839 | 47.51 | ug/L | | 99 |
| 45) cyclohexane | 3.370 | 84 | 172615 | 46.71 | ug/L | | 97 |
| 46) 1,1-dichloropropene | 3.407 | 75 | 190136 | 51.41 | ug/L | | 98 |
| 47) carbon tetrachloride | 3.412 | 119 | 211210 | 48.29 | ug/L | | 98 |
| 48) isobutyl alcohol | 3.407 | 42 | 87889 | 656.60 | ug/L | | 98 |
| 49) tert-amyl alcohol | 3.485 | 55 | 64671 | 235.88 | ug/L | # | 68 |
| 52) n-butyl alcohol | 3.800 | 56 | 458572 | 2893.80 | ug/L | | 100 |
| 53) benzene | 3.527 | 78 | 504155 | 47.35 | ug/L | | 98 |
| 54) tert-amyl methyl ether | 3.580 | 73 | 402308 | 48.23 | ug/L | | 98 |
| 55) iso-octane | 3.580 | 57 | 265273 | 46.66 | ug/L | | 99 |
| 56) heptane | 3.674 | 57 | 47164 | 42.86 | ug/L | | 94 |
| 57) isopropyl acetate | 3.501 | 87 | 42873 | 49.65 | ug/L | # | 65 |
| 58) 1,2-dichloroethane | 3.543 | 62 | 203674 | 45.93 | ug/L | | 98 |
| 59) trichloroethene | 3.910 | 95 | 145047 | 46.01 | ug/L | | 98 |
| 60) ethyl acrylate | 3.926 | 55 | 251884 | 50.83 | ug/L | | 97 |
| 61) 2-nitropropane | 4.356 | 41 | 70611 | 53.70 | ug/L | | 98 |
| 62) 2-chloroethyl vinyl ether | 4.387 | 63 | 513011 | 307.66 | ug/L | | 98 |
| 63) methyl methacrylate | 4.072 | 100 | 53535 | 49.51 | ug/L | # | 77 |
| 64) 1,2-dichloropropane | 4.067 | 63 | 142297 | 51.07 | ug/L | | 96 |
| 65) methylcyclohexane | 4.067 | 83 | 185806 | 47.32 | ug/L | | 99 |
| 66) dibromomethane | 4.125 | 93 | 113188 | 46.43 | ug/L | | 93 |
| 67) bromodichloromethane | 4.224 | 83 | 197726 | 46.14 | ug/L | | 99 |
| 68) epichlorohydrin | 4.429 | 57 | 118065 | 256.02 | ug/L | | 98 |
| 69) cis-1,3-dichloropropene | 4.508 | 75 | 215097 | 48.19 | ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 4.586 | 58 | 373289 | 223.31 | ug/L | | 93 |
| 71) 3-methyl-1-butanol | 4.612 | 70 | 182664 | 1154.37 | ug/L | | 95 |
| 74) toluene | 4.744 | 92 | 318275 | 44.76 | ug/L | | 97 |
| 75) ethyl methacrylate | 4.906 | 69 | 200907 | 48.61 | ug/L | | 98 |
| 76) trans-1,3-dichloropropene | 4.885 | 75 | 205448 | 48.43 | ug/L | | 98 |
| 77) 1,1,2-trichloroethane | 5.027 | 83 | 120930 | 49.05 | ug/L | | 93 |
| 78) 2-hexanone | 5.163 | 58 | 390834 | 216.48 | ug/L | | 98 |
| 79) tetrachloroethene | 5.105 | 164 | 124620 | 45.18 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 5.147 | 76 | 221889 | 48.82 | ug/L | | 99 |
| 81) butyl acetate | 5.236 | 56 | 115564 | 50.43 | ug/L | | 97 |
| 82) dibromochloromethane | 5.305 | 129 | 183145 | 47.24 | ug/L | | 98 |
| 83) 1,2-dibromoethane | 5.399 | 107 | 166229 | 48.01 | ug/L | | 95 |
| 84) n-butyl ether | 5.808 | 57 | 512621 | 50.49 | ug/L | | 98 |
| 85) chlorobenzene | 5.755 | 112 | 389569 | 45.48 | ug/L | | 100 |
| 86) 1,1,1,2-tetrachloroethane | 5.818 | 131 | 166978 | 49.83 | ug/L | | 99 |
| 87) ethylbenzene | 5.824 | 91 | 640962 | 47.65 | ug/L | | 99 |
| 88) m,p-xylene | 5.918 | 106 | 488781 | 93.71 | ug/L | | 99 |
| 89) o-xylene | 6.217 | 91 | 488522 | 47.37 | ug/L | | 99 |
| 90) styrene | 6.227 | 104 | 408638 | 47.75 | ug/L | | 98 |
| 91) butyl acrylate | 6.154 | 56 | 135645 | 53.38 | ug/L | | 98 |
| 92) n-amyl acetate | 6.327 | 70 | 109279 | 48.18 | ug/L | | 93 |
| 93) bromoform | 6.374 | 173 | 138376 | 48.23 | ug/L | | 99 |
| 94) isopropylbenzene | 6.500 | 105 | 567563 | 46.38 | ug/L | | 99 |
| 95) cis-1,4-dichloro-2-butene | 6.537 | 88 | 46957 | 32.82 | ug/L | | 87 |
| 98) bromobenzene | 6.757 | 156 | 172127 | 45.01 | ug/L | | 94 |
| 99) 1,1,2,2-tetrachloroethane | 6.731 | 83 | 221949 | 47.28 | ug/L | | 99 |
| 100) trans-1,4-dichloro-2-b... | 6.762 | 53 | 40074 | 36.19 | ug/L | | 98 |
| 101) 1,2,3-trichloropropane | 6.778 | 110 | 64030 | 45.88 | ug/L | | 94 |
| 102) n-propylbenzene | 6.825 | 91 | 635637 | 46.06 | ug/L | | 100 |
| 103) 2-chlorotoluene | 6.898 | 126 | 143988 | 45.52 | ug/L | | 95 |
| 104) 4-chlorotoluene | 6.988 | 126 | 150395 | 46.19 | ug/L | | 97 |
| 105) 1,3,5-trimethylbenzene | 6.961 | 105 | 430660 | 46.62 | ug/L | | 98 |
| 106) tert-butylbenzene | 7.197 | 119 | 365369 | 45.36 | ug/L | | 99 |
| 107) 1,2,4-trimethylbenzene | 7.239 | 105 | 438328 | 45.45 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92882.d
Acq On : 27 Sep 2022 9:47 pm
Operator : KYLEM
Sample : bs
Misc : MS62460,V2V3773,5,,,,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 27 21:57:54 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

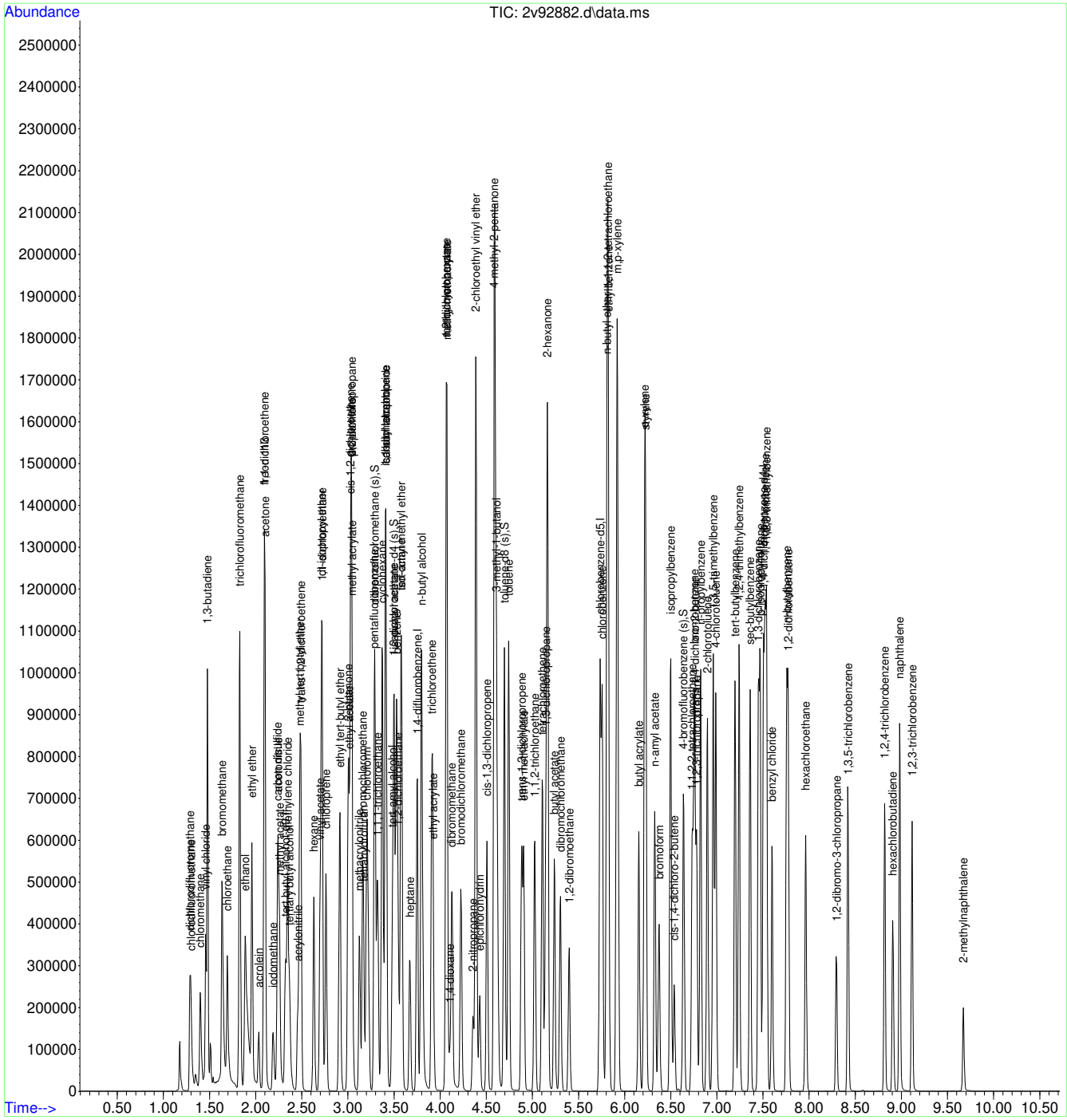
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 108) sec-butylbenzene | 7.360 | 105 | 505036 | 46.28 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 286731 | 45.48 | ug/L | 98 |
| 110) p-isopropyltoluene | 7.470 | 119 | 428375 | 46.28 | ug/L | 99 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 451054 | 46.78 | ug/L | 97 |
| 112) 1,4-dichlorobenzene | 7.522 | 146 | 290707 | 44.20 | ug/L | 98 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 274809 | 46.24 | ug/L | 99 |
| 114) benzyl chloride | 7.596 | 91 | 287860 | 47.04 | ug/L | 100 |
| 115) n-butylbenzene | 7.758 | 92 | 188414 | 47.86 | ug/L | 97 |
| 116) hexachloroethane | 7.963 | 201 | 65600 | 45.69 | ug/L | 94 |
| 117) 1,2-dibromo-3-chloropr... | 8.298 | 157 | 62639 | 49.79 | ug/L | 91 |
| 118) 1,3,5-trichlorobenzene | 8.424 | 180 | 163831 | 49.12 | ug/L | 97 |
| 119) 1,2,4-trichlorobenzene | 8.817 | 180 | 142619 | 48.77 | ug/L | 99 |
| 120) hexachlorobutadiene | 8.907 | 225 | 47284 | 45.78 | ug/L | 96 |
| 121) naphthalene | 8.980 | 128 | 477360 | 48.57 | ug/L | 100 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 131375 | 50.07 | ug/L | 98 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 72871 | 21.81 | ug/L | 96 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92882.d
Acq On : 27 Sep 2022 9:47 pm
Operator : KYLEM
Sample : bs
Misc : MS62460,V2V3773,5,,,,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 27 21:57:54 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220392.d
Acq On : 29 Sep 2022 10:19 am
Operator : nicoleh
Sample : bs Inst : GCMS2A
Misc : MS62546,V2A9581,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 29 10:41:46 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.251 | 65 | 403428 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.511 | 168 | 713019 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.439 | 114 | 1075602 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.564 | 117 | 985341 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 491517 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.511 | 168 | 713019 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.542 | 113 | 351212 | 52.33 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.66% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.956 | 65 | 418394 | 41.84 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 83.68% | | | |
| 73) toluene-d8 (s) | 12.064 | 98 | 1214534 | 50.32 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.64% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 501937 | 55.20 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 110.40% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 5.977 | 45 | 327923 | 3336.54 | ug/L | 98 |
| 3) tertiary butyl alcohol | 7.366 | 59 | 223160 | 225.16 | ug/L | 95 |
| 4) 1,4-dioxane | 11.078 | 88 | 66254 | 953.82 | ug/L | 95 |
| 6) chlorodifluoromethane | 4.000 | 51 | 507117 | 52.16 | ug/L | 99 |
| 7) dichlorodifluoromethane | 3.974 | 85 | 420032 | 43.86 | ug/L | 98 |
| 8) chloromethane | 4.357 | 50 | 511091 | 41.24 | ug/L | 99 |
| 9) vinyl chloride | 4.577 | 62 | 405562 | 42.79 | ug/L | 97 |
| 10) 1,3-butadiene | 4.629 | 54 | 371371 | 43.99 | ug/L | 100 |
| 11) bromomethane | 5.201 | 94 | 258254 | 46.20 | ug/L | 98 |
| 12) chloroethane | 5.364 | 64 | 239518 | 53.37 | ug/L | 92 |
| 13) trichlorofluoromethane | 5.809 | 101 | 487314 | 45.89 | ug/L | 97 |
| 14) ethyl ether | 6.197 | 74 | 184818 | 54.62 | ug/L | 98 |
| 15) acrolein | 6.417 | 56 | 68240 | 45.06 | ug/L | 93 |
| 16) freon 113 | 6.617 | 151 | 259547 | 51.43 | ug/L | 96 |
| 17) 1,1-dichloroethene | 6.606 | 96 | 274957 | 51.97 | ug/L | 94 |
| 18) acetone | 6.611 | 43 | 754771 | 275.32 | ug/L | 95 |
| 19) acetonitrile | 7.020 | 41 | 497778 | 440.00 | ug/L | 98 |
| 20) iodomethane | 6.853 | 142 | 536998 | 52.01 | ug/L | 92 |
| 21) carbon disulfide | 6.994 | 76 | 994667 | 56.75 | ug/L | 93 |
| 22) methylene chloride | 7.309 | 84 | 324149 | 51.71 | ug/L | 97 |
| 23) methyl acetate | 7.067 | 43 | 324052 | 47.42 | ug/L | 100 |
| 24) methyl tert butyl ether | 7.665 | 73 | 949214 | 50.32 | ug/L | 94 |
| 25) trans-1,2-dichloroethene | 7.691 | 96 | 308243 | 51.41 | ug/L | 99 |
| 26) hexane | 8.048 | 57 | 602199 | 56.52 | ug/L | 99 |
| 27) di-isopropyl ether | 8.258 | 45 | 1407983 | 53.92 | ug/L | 98 |
| 28) ethyl tert-butyl ether | 8.714 | 59 | 1220769 | 53.71 | ug/L | 98 |
| 29) 2-butanone | 8.908 | 72 | 180188 | 244.21 | ug/L | 91 |
| 30) 1,1-dichloroethane | 8.263 | 63 | 615105 | 52.47 | ug/L | 98 |
| 31) chloroprene | 8.363 | 53 | 577644 | 51.88 | ug/L | 95 |
| 32) acrylonitrile | 7.597 | 53 | 149665 | 49.49 | ug/L | 97 |
| 33) vinyl acetate | 8.205 | 86 | 64681 | 58.49 | ug/L # | 63 |
| 34) ethyl acetate | 8.924 | 45 | 68994 | 50.37 | ug/L | 94 |
| 35) 2,2-dichloropropane | 9.002 | 77 | 491691 | 52.48 | ug/L | 98 |
| 36) cis-1,2-dichloroethene | 8.976 | 96 | 343318 | 52.06 | ug/L | 96 |
| 37) propionitrile | 8.981 | 54 | 555959 | 492.84 | ug/L | 89 |
| 38) bromochloromethane | 9.264 | 130 | 223575 | 51.00 | ug/L | 94 |
| 39) tetrahydrofuran | 9.285 | 42 | 129025 | 41.25 | ug/L | 97 |
| 40) chloroform | 9.353 | 83 | 578480 | 47.49 | ug/L | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220392.d
Acq On : 29 Sep 2022 10:19 am
Operator : nicoleh
Sample : bs Inst : GCMS2A
Misc : MS62546,V2A9581,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 29 10:41:46 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) tert-butyl formate | 9.390 | 59 | 313136 | 52.87 | ug/L | | 96 |
| 42) isobutyl alcohol | 9.747 | 43 | 170745 | 361.70 | ug/L | | 93 |
| 44) methacrylonitrile | 9.180 | 67 | 145216 | 51.83 | ug/L | | 92 |
| 45) 1,1,1-trichloroethane | 9.610 | 97 | 518240 | 48.99 | ug/L | | 99 |
| 46) cyclohexane | 9.720 | 84 | 454743 | 51.45 | ug/L | | 100 |
| 47) 1,1-dichloropropene | 9.778 | 75 | 450264 | 52.87 | ug/L | | 95 |
| 48) tert-amyl alcohol | 9.909 | 73 | 98363 | 208.41 | ug/L | | 95 |
| 49) carbon tetrachloride | 9.810 | 117 | 451368 | 47.28 | ug/L | | 96 |
| 52) 2,2,4-trimethylpentane | 10.124 | 57 | 1456585 | 48.18 | ug/L | | 93 |
| 53) tert-amyl methyl ether | 10.108 | 73 | 1018891 | 45.99 | ug/L | | 100 |
| 54) n-butyl alcohol | 10.502 | 56 | 558519 | 1998.81 | ug/L | | 94 |
| 55) benzene | 10.025 | 78 | 1258144 | 49.30 | ug/L | | 98 |
| 56) heptane | 10.281 | 57 | 274019 | 44.43 | ug/L | | 98 |
| 57) isopropyl acetate | 9.941 | 87 | 73184 | 45.69 | ug/L | # | 94 |
| 58) 1,2-dichloroethane | 10.051 | 62 | 510294 | 42.55 | ug/L | | 98 |
| 59) trichloroethene | 10.748 | 95 | 337054 | 46.20 | ug/L | | 96 |
| 60) ethyl acrylate | 10.738 | 55 | 546783 | 47.19 | ug/L | | 99 |
| 61) 2-nitropropane | 11.503 | 41 | 104035 | 34.16 | ug/L | | 95 |
| 62) 2-chloroethyl vinyl ether | 11.540 | 63 | 354504 | 101.61 | ug/L | | 100 |
| 63) methyl methacrylate | 11.005 | 100 | 87845 | 48.02 | ug/L | # | 81 |
| 64) 1,2-dichloropropane | 11.036 | 63 | 362235 | 47.84 | ug/L | | 98 |
| 65) methylcyclohexane | 11.047 | 83 | 542849 | 45.47 | ug/L | | 98 |
| 66) dibromomethane | 11.141 | 93 | 214975 | 43.25 | ug/L | | 93 |
| 67) bromodichloromethane | 11.299 | 83 | 448547 | 43.59 | ug/L | | 99 |
| 68) epichlorohydrin | 11.624 | 57 | 180665 | 199.91 | ug/L | | 100 |
| 69) cis-1,3-dichloropropene | 11.755 | 75 | 540646 | 48.00 | ug/L | | 88 |
| 70) 4-methyl-2-pentanone | 11.865 | 58 | 617451 | 172.93 | ug/L | | 97 |
| 71) 3-methyl-1-butanol | 11.870 | 70 | 176964 | 803.59 | ug/L | | 95 |
| 74) toluene | 12.137 | 92 | 744963 | 47.59 | ug/L | | 98 |
| 75) trans-1,3-dichloropropene | 12.321 | 75 | 483393 | 46.59 | ug/L | | 98 |
| 76) ethyl methacrylate | 12.316 | 69 | 441015 | 49.50 | ug/L | | 92 |
| 77) 1,1,2-trichloroethane | 12.541 | 83 | 242222 | 45.01 | ug/L | | 98 |
| 78) 2-hexanone | 12.709 | 58 | 625462 | 191.00 | ug/L | | 91 |
| 79) tetrachloroethene | 12.688 | 166 | 357610 | 45.89 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 12.719 | 76 | 464639 | 45.00 | ug/L | | 98 |
| 81) butyl acetate | 12.788 | 56 | 265779 | 47.24 | ug/L | | 97 |
| 82) dibromochloromethane | 12.966 | 129 | 339579 | 43.24 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.113 | 107 | 295260 | 44.30 | ug/L | | 97 |
| 84) n-butyl ether | 13.564 | 57 | 1430307 | 46.12 | ug/L | | 97 |
| 85) chlorobenzene | 13.595 | 112 | 796471 | 46.66 | ug/L | | 99 |
| 86) 1,1,1,2-tetrachloroethane | 13.663 | 131 | 303285 | 44.17 | ug/L | | 97 |
| 87) ethylbenzene | 13.658 | 91 | 1337042 | 45.56 | ug/L | | 95 |
| 88) m,p-xylene | 13.779 | 106 | 997799 | 87.47 | ug/L | | 89 |
| 89) o-xylene | 14.177 | 91 | 1078467 | 45.02 | ug/L | | 94 |
| 90) styrene | 14.188 | 104 | 819283 | 44.13 | ug/L | | 99 |
| 91) n-amyl acetate | 14.224 | 70 | 212826 | 43.93 | ug/L | | 92 |
| 92) bromoform | 14.413 | 173 | 242838 | 43.00 | ug/L | | 97 |
| 93) butyl acrylate | 14.015 | 55 | 783912 | 47.44 | ug/L | | 99 |
| 94) isopropylbenzene | 14.528 | 105 | 1245739 | 43.61 | ug/L | | 99 |
| 95) cis-1,4-dichloro-2-butene | 14.560 | 88 | 77394 | 25.17 | ug/L | | 96 |
| 98) bromobenzene | 14.906 | 156 | 349254 | 44.40 | ug/L | | 98 |
| 99) 1,1,2,2-tetrachloroethane | 14.806 | 83 | 366109 | 43.83 | ug/L | | 99 |
| 100) trans-1,4-dichloro-2-b... | 14.838 | 53 | 71160 | 25.59 | ug/L | | 92 |
| 101) 1,2,3-trichloropropane | 14.890 | 110 | 88531 | 41.19 | ug/L | | 94 |
| 102) n-propylbenzene | 14.937 | 91 | 1529594 | 48.49 | ug/L | | 96 |
| 103) 2-chlorotoluene | 15.068 | 126 | 316061 | 46.03 | ug/L | | 90 |
| 104) 4-chlorotoluene | 15.184 | 91 | 950758 | 47.39 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220392.d
Acq On : 29 Sep 2022 10:19 am
Operator : nicoleh
Sample : bs Inst : GCMS2A
Misc : MS62546,V2A9581,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 29 10:41:46 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

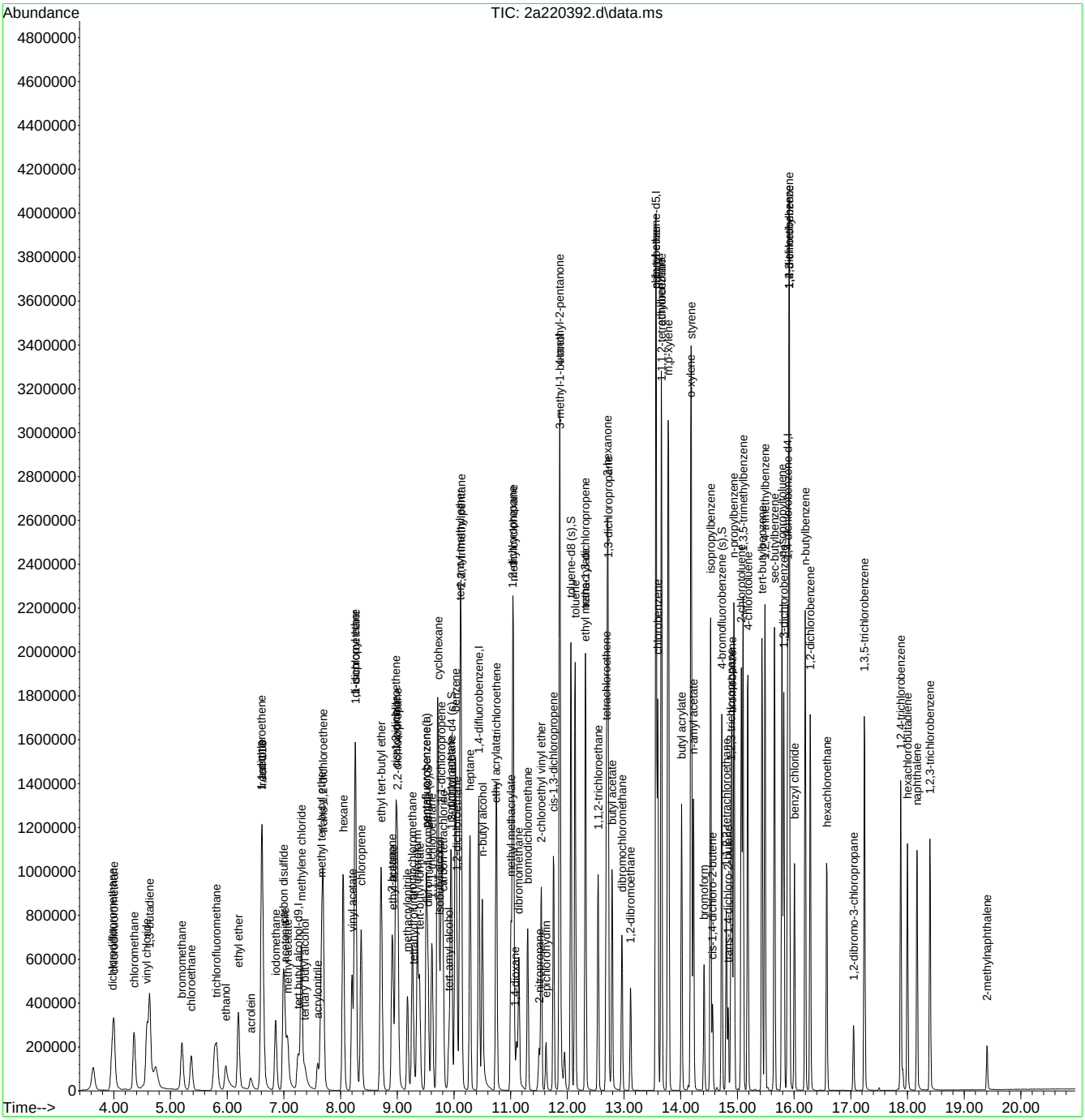
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 105) 1,3,5-trimethylbenzene | 15.100 | 105 | 1035301 | 47.25 | ug/L | 99 |
| 106) tert-butylbenzene | 15.435 | 119 | 886179 | 46.68 | ug/L | 98 |
| 107) 1,2,4-trimethylbenzene | 15.488 | 105 | 1038415 | 46.52 | ug/L | 98 |
| 108) sec-butylbenzene | 15.656 | 105 | 1294165 | 45.72 | ug/L | 100 |
| 109) 1,3-dichlorobenzene | 15.818 | 146 | 624841 | 44.56 | ug/L | 97 |
| 110) p-isopropyltoluene | 15.787 | 119 | 1114212 | 46.16 | ug/L | 99 |
| 111) benzyl chloride | 16.007 | 91 | 611902 | 44.52 | ug/L | 98 |
| 112) 1,2,3-trimethylbenzene | 15.912 | 105 | 1051364 | 45.68 | ug/L | 95 |
| 113) 1,4-dichlorobenzene | 15.912 | 146 | 621103 | 42.60 | ug/L | 97 |
| 114) 1,2-dichlorobenzene | 16.285 | 146 | 603550 | 44.04 | ug/L | 97 |
| 115) n-butylbenzene | 16.196 | 92 | 576539 | 44.91 | ug/L | 98 |
| 116) 1,2-dibromo-3-chloropr... | 17.050 | 157 | 72113 | 39.77 | ug/L | 95 |
| 117) 1,3,5-trichlorobenzene | 17.239 | 180 | 489969 | 45.74 | ug/L | 99 |
| 118) 1,2,4-trichlorobenzene | 17.884 | 180 | 414949 | 45.05 | ug/L | 100 |
| 119) hexachlorobutadiene | 17.999 | 225 | 221658 | 46.76 | ug/L | 96 |
| 120) naphthalene | 18.167 | 128 | 775381 | 35.33 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 18.398 | 180 | 348064 | 40.13 | ug/L | 99 |
| 122) hexachloroethane | 16.578 | 201 | 162749 | 41.18 | ug/L | 98 |
| 123) 2-methylnaphthalene | 19.404 | 142 | 94703 | 8.46 | ug/L | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220392.d
Acq On : 29 Sep 2022 10:19 am
Operator : nicoleh
Sample : bs Inst : GCMS2A
Misc : MS62546,V2A9581,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 29 10:41:46 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200581.d
Acq On : 29 Sep 2022 10:34 am
Operator : taylors
Sample : bs Inst : ACC-VOA-MSX
Misc : MS46075,V1X8637,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 29 10:46:11 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.439 | 65 | 394035 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.507 | 168 | 438607 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 3.998 | 114 | 604941 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.074 | 117 | 565715 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 283962 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.507 | 113 | 197081 | 47.63 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.26% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.726 | 65 | 221110 | 47.82 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 95.64% | | | |
| 74) toluene-d8 (s) | 4.990 | 98 | 671056 | 49.59 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.18% | | | |
| 98) 4-bromofluorobenzene (s) | 7.002 | 95 | 241223 | 48.93 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.86% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 1.943 | 45 | 195373 | 5184.70 | ug/L | 96 |
| 3) tertiary butyl alcohol | 2.487 | 59 | 141926 | 238.07 | ug/L | 99 |
| 4) 1,4-dioxane | 4.377 | 88 | 59189 | 1249.05 | ug/L | 93 |
| 6) chlorodifluoromethane | 1.255 | 51 | 161353 | 43.14 | ug/L | 98 |
| 7) dichlorodifluoromethane | 1.239 | 85 | 141636 | 40.32 | ug/L | 99 |
| 8) chloromethane | 1.367 | 50 | 143202 | 39.06 | ug/L | 98 |
| 9) vinyl chloride | 1.431 | 62 | 152356 | 39.37 | ug/L | 99 |
| 10) bromomethane | 1.634 | 96 | 26912 | 50.13 | ug/L | 100 |
| 11) chloroethane | 1.703 | 64 | 60821 | 35.48 | ug/L | 98 |
| 12) trichlorofluoromethane | 1.852 | 101 | 214426 | 42.31 | ug/L | 100 |
| 13) 1,3-butadiene | 1.452 | 54 | 137573 | 44.51 | ug/L | 99 |
| 14) ethyl ether | 2.018 | 74 | 57569 | 44.66 | ug/L | 97 |
| 15) acrolein | 2.103 | 56 | 36594 | 50.19 | ug/L | 96 |
| 16) 1,1-dichloroethene | 2.167 | 96 | 112685 | 46.02 | ug/L | 98 |
| 17) freon 113 | 2.162 | 101 | 136276 | 45.64 | ug/L | 98 |
| 18) acetone | 2.183 | 58 | 73153 | 175.95 | ug/L | 97 |
| 19) acetonitrile | 2.349 | 41 | 259609 | 451.37 | ug/L | 99 |
| 20) iodomethane | 2.263 | 142 | 67706 | 60.27 | ug/L | 99 |
| 21) carbon disulfide | 2.311 | 76 | 289830 | 47.10 | ug/L | 100 |
| 22) methylene chloride | 2.455 | 84 | 103657 | 43.67 | ug/L | 98 |
| 23) methyl acetate | 2.359 | 43 | 153125 | 45.35 | ug/L | 99 |
| 24) methyl tert butyl ether | 2.605 | 73 | 319660 | 45.21 | ug/L | 99 |
| 25) acrylonitrile | 2.583 | 53 | 72296 | 46.13 | ug/L | 99 |
| 26) trans-1,2-dichloroethene | 2.616 | 96 | 117929 | 44.48 | ug/L | 98 |
| 27) hexane | 2.770 | 57 | 200202 | 47.87 | ug/L | 99 |
| 28) di-isopropyl ether | 2.872 | 45 | 396514 | 44.98 | ug/L | 99 |
| 29) 2-butanone | 3.192 | 72 | 88070 | 191.57 | ug/L | 93 |
| 30) 1,1-dichloroethane | 2.872 | 63 | 200116 | 43.51 | ug/L | 99 |
| 31) chloroprene | 2.914 | 53 | 200856 | 46.16 | ug/L | 100 |
| 32) vinyl acetate | 2.856 | 86 | 26474 | 51.83 | ug/L | 98 |
| 33) ethyl tert-butyl ether | 3.091 | 59 | 361959 | 45.98 | ug/L | 99 |
| 34) ethyl acetate | 3.203 | 45 | 32940 | 47.46 | ug/L | 98 |
| 35) 2,2-dichloropropane | 3.219 | 77 | 182623 | 47.84 | ug/L | 100 |
| 36) cis-1,2-dichloroethene | 3.213 | 96 | 124865 | 43.64 | ug/L | 96 |
| 37) methyl acrylate | 3.240 | 55 | 204411 | 47.25 | ug/L | 99 |
| 38) propionitrile | 3.235 | 54 | 303126 | 463.33 | ug/L | 88 |
| 39) tert-butyl formate | 3.427 | 59 | 93660 | 54.54 | ug/L | 96 |
| 40) bromochloromethane | 3.357 | 128 | 62916 | 43.11 | ug/L | 94 |
| 41) tetrahydrofuran | 3.363 | 42 | 65297 | 44.54 | ug/L | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200581.d
Acq On : 29 Sep 2022 10:34 am
Operator : taylors
Sample : bs Inst : ACC-VOA-MSX
Misc : MS46075,V1X8637,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 29 10:46:11 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) chloroform | 3.405 | 83 | 198890 | 41.95 | ug/L | | 98 |
| 44) methacrylonitrile | 3.325 | 67 | 65030 | 47.57 | ug/L | | 99 |
| 45) 1,1,1-trichloroethane | 3.528 | 97 | 198712 | 43.83 | ug/L | | 99 |
| 46) cyclohexane | 3.576 | 84 | 163757 | 39.51 | ug/L | | 96 |
| 47) tert amyl alcohol | 3.715 | 55 | 53631 | 229.99 | ug/L | | 97 |
| 48) 1,1-dichloropropene | 3.619 | 75 | 166844 | 44.78 | ug/L | | 99 |
| 49) isobutyl alcohol | 3.806 | 42 | 26010 | 442.93 | ug/L | | 99 |
| 50) carbon tetrachloride | 3.624 | 117 | 182176 | 45.48 | ug/L | | 99 |
| 51) isopropyl acetate | 3.736 | 87 | 32117 | 50.38 | ug/L | # | 93 |
| 54) iso-octane | 3.806 | 57 | 410344 | 48.90 | ug/L | | 98 |
| 55) epichlorohydrin | 4.718 | 57 | 109224 | 259.68 | ug/L | | 99 |
| 56) n-butyl alcohol | 4.051 | 56 | 366300 | 2713.80 | ug/L | | 98 |
| 57) benzene | 3.747 | 78 | 445981 | 43.95 | ug/L | | 99 |
| 58) tert-amyl methyl ether | 3.811 | 73 | 324417 | 48.45 | ug/L | | 98 |
| 59) heptane | 3.907 | 57 | 77161 | 50.99 | ug/L | | 99 |
| 60) 1,2-dichloroethane | 3.774 | 62 | 164806 | 43.06 | ug/L | | 99 |
| 61) trichloroethene | 4.163 | 130 | 144403 | 45.69 | ug/L | | 98 |
| 62) ethyl acrylate | 4.185 | 55 | 209513 | 50.71 | ug/L | | 98 |
| 63) 2-nitropropane | 4.644 | 41 | 54873 | 53.98 | ug/L | | 97 |
| 64) 2-chloroethyl vinyl ether | 4.676 | 63 | 452537 | 257.38 | ug/L | | 99 |
| 65) methyl methacrylate | 4.345 | 100 | 40736 | 49.52 | ug/L | # | 67 |
| 66) 1,2-dichloropropane | 4.334 | 76 | 46374 | 46.75 | ug/L | | 99 |
| 67) dibromomethane | 4.393 | 93 | 76157 | 44.34 | ug/L | | 97 |
| 68) methylcyclohexane | 4.323 | 83 | 205018 | 48.19 | ug/L | | 98 |
| 69) bromodichloromethane | 4.499 | 83 | 139968 | 47.77 | ug/L | | 99 |
| 70) cis-1,3-dichloropropene | 4.798 | 75 | 171711 | 50.58 | ug/L | | 99 |
| 71) 4-methyl-2-pentanone | 4.889 | 58 | 280774 | 201.99 | ug/L | | 98 |
| 72) 3-methyl-1-butanol | 4.910 | 70 | 120183 | 1114.96 | ug/L | | 98 |
| 75) toluene | 5.044 | 92 | 284051 | 45.86 | ug/L | | 99 |
| 76) trans-1,3-dichloropropene | 5.193 | 75 | 160043 | 51.66 | ug/L | | 99 |
| 77) ethyl methacrylate | 5.215 | 69 | 152114 | 48.76 | ug/L | | 98 |
| 78) 1,1,2-trichloroethane | 5.343 | 83 | 88417 | 47.12 | ug/L | | 96 |
| 79) tetrachloroethene | 5.417 | 164 | 118608 | 47.74 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 5.465 | 76 | 165319 | 45.99 | ug/L | | 99 |
| 81) 2-hexanone | 5.487 | 58 | 288437 | 197.87 | ug/L | | 99 |
| 82) butyl acetate | 5.561 | 56 | 96885 | 46.75 | ug/L | | 97 |
| 83) dibromochloromethane | 5.631 | 129 | 124476 | 50.48 | ug/L | | 98 |
| 84) 1,2-dibromoethane | 5.727 | 107 | 123028 | 49.14 | ug/L | | 98 |
| 85) n-butyl ether | 6.143 | 57 | 468334 | 46.67 | ug/L | | 100 |
| 86) chlorobenzene | 6.095 | 112 | 318914 | 45.38 | ug/L | | 100 |
| 87) 1,1,1,2-tetrachloroethane | 6.159 | 131 | 117699 | 48.70 | ug/L | | 97 |
| 88) ethylbenzene | 6.165 | 91 | 532595 | 44.87 | ug/L | | 99 |
| 89) m,p-xylene | 6.266 | 106 | 421240 | 90.17 | ug/L | | 99 |
| 90) o-xylene | 6.570 | 91 | 401995 | 45.31 | ug/L | | 100 |
| 91) styrene | 6.586 | 104 | 343567 | 45.63 | ug/L | | 96 |
| 92) butyl acrylate | 6.506 | 55 | 254303 | 49.97 | ug/L | | 99 |
| 93) n-amyl acetate | 6.682 | 70 | 85086 | 50.26 | ug/L | | 97 |
| 94) bromoform | 6.736 | 173 | 89116 | 54.43 | ug/L | | 98 |
| 95) isopropylbenzene | 6.858 | 105 | 535270 | 46.28 | ug/L | | 99 |
| 96) cis-1,4-dichloro-2-butene | 6.906 | 88 | 55684 | 48.80 | ug/L | | 99 |
| 99) bromobenzene | 7.120 | 156 | 143886 | 46.16 | ug/L | | 94 |
| 100) 1,1,2,2-tetrachloroethane | 7.099 | 83 | 158753 | 51.43 | ug/L | | 100 |
| 101) trans-1,4-dichloro-2-b... | 7.131 | 53 | 50404 | 56.12 | ug/L | | 88 |
| 102) 1,2,3-trichloropropane | 7.152 | 110 | 49970 | 49.03 | ug/L | | 93 |
| 103) n-propylbenzene | 7.189 | 91 | 601594 | 46.67 | ug/L | | 99 |
| 104) 2-chlorotoluene | 7.264 | 126 | 131489 | 45.93 | ug/L | | 93 |
| 105) 4-chlorotoluene | 7.355 | 91 | 340440 | 45.33 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200581.d
Acq On : 29 Sep 2022 10:34 am
Operator : taylors
Sample : bs Inst : ACC-VOA-MSX
Misc : MS46075,V1X8637,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 29 10:46:11 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

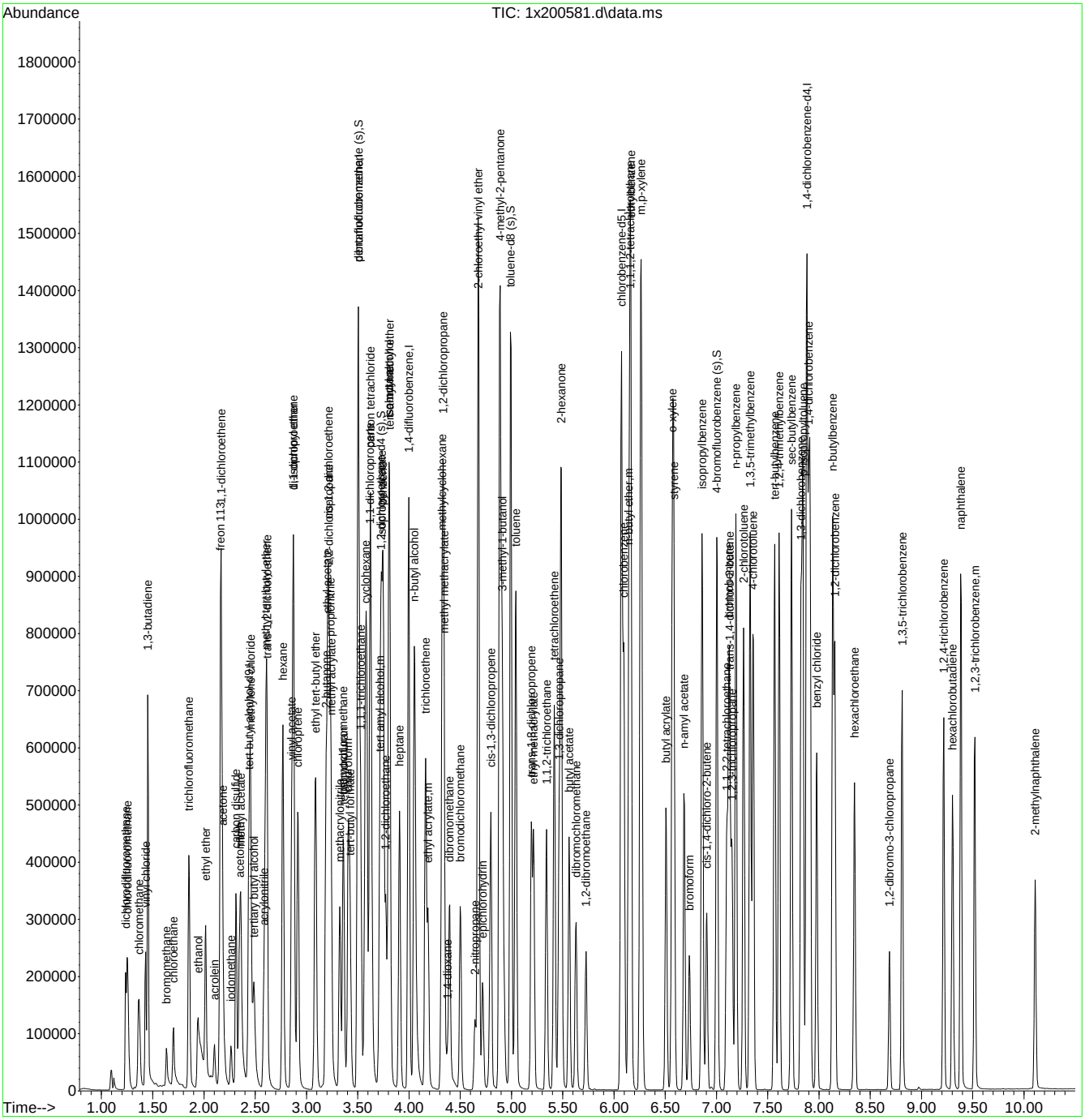
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) 1,3,5-trimethylbenzene | 7.328 | 105 | 399885 | 47.52 | ug/L | 100 |
| 107) tert-butylbenzene | 7.568 | 119 | 380138 | 46.43 | ug/L | 98 |
| 108) 1,2,4-trimethylbenzene | 7.611 | 105 | 394536 | 46.29 | ug/L | 99 |
| 109) sec-butylbenzene | 7.734 | 105 | 540184 | 47.98 | ug/L | 99 |
| 110) 1,3-dichlorobenzene | 7.824 | 146 | 258488 | 46.34 | ug/L | 99 |
| 111) p-isopropyltoluene | 7.846 | 119 | 460840 | 48.28 | ug/L | 100 |
| 112) 1,4-dichlorobenzene | 7.899 | 146 | 264606 | 46.03 | ug/L | 99 |
| 113) 1,2-dichlorobenzene | 8.155 | 146 | 246657 | 47.29 | ug/L | 98 |
| 114) benzyl chloride | 7.979 | 91 | 297081 | 64.40 | ug/L | 98 |
| 115) n-butylbenzene | 8.134 | 92 | 206889 | 49.27 | ug/L | 99 |
| 116) 1,2-dibromo-3-chloropr... | 8.689 | 157 | 48664 | 52.64 | ug/L | 98 |
| 117) 1,3,5-trichlorobenzene | 8.812 | 180 | 162406 | 48.46 | ug/L | 98 |
| 118) hexachlorobutadiene | 9.303 | 225 | 61119 | 51.16 | ug/L | 98 |
| 119) naphthalene | 9.383 | 128 | 524339 | 47.81 | ug/L | 98 |
| 120) 1,2,4-trichlorobenzene | 9.217 | 180 | 142508 | 48.81 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 9.521 | 180 | 137448 | 48.32 | ug/L | 98 |
| 122) hexachloroethane | 8.347 | 201 | 55313 | 44.43 | ug/L | 96 |
| 123) 2-methylnaphthalene | 10.109 | 142 | 141297 | 26.38 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200581.d
Acq On : 29 Sep 2022 10:34 am
Operator : taylors
Sample : bs Inst : ACC-VOA-MSX
Misc : MS46075,V1X8637,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 29 10:46:11 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93002.d
Acq On : 29 Sep 2022 10:25 pm
Operator : KYLEM
Sample : bs Inst : MS2V
Misc : MS62471,V2V3777,5,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Sep 29 22:35:57 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.326 | 65 | 258604 | 500.00 | ug/L | 0.01 |
| 5) pentafluorobenzene | 3.291 | 168 | 314006 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 438273 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 417412 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 185006 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.296 | 113 | 156670 | 50.03 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.06% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.501 | 65 | 155441 | 50.02 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.04% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 506285 | 49.28 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.56% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 157330 | 47.63 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.26% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 1.891 | 45 | 518078 | 9862.99 | ug/L | 100 |
| 3) tertiary butyl alcohol | 2.368 | 59 | 185854 | 230.71 | ug/L | 99 |
| 4) 1,4-dioxane | 4.104 | 88 | 84323 | 1278.13 | ug/L | 97 |
| 6) chlorodifluoromethane | 1.299 | 51 | 117074 | 39.92 | ug/L | 99 |
| 7) dichlorodifluoromethane | 1.288 | 85 | 149696 | 42.67 | ug/L | 97 |
| 8) chloromethane | 1.398 | 52 | 54905 | 41.46 | ug/L | 97 |
| 9) vinyl chloride | 1.461 | 62 | 207928 | 48.34 | ug/L | 94 |
| 10) bromomethane | 1.639 | 96 | 188721 | 63.08 | ug/L | 96 |
| 11) chloroethane | 1.692 | 64 | 236379 | 91.64 | ug/L | 96 |
| 12) trichlorofluoromethane | 1.828 | 101 | 520652 | 81.75 | ug/L | 99 |
| 13) 1,3-butadiene | 1.477 | 54 | 206619 | 52.36 | ug/L | 99 |
| 14) ethyl ether | 1.959 | 74 | 132454 | 88.02 | ug/L | 95 |
| 15) acrolein | 2.033 | 56 | 50444 | 75.43 | ug/L | 92 |
| 16) freon 113 | 2.096 | 151 | 118810 | 47.05 | ug/L | 96 |
| 17) 1,1-dichloroethene | 2.101 | 61 | 191118 | 49.97 | ug/L | 100 |
| 18) acetone | 2.101 | 58 | 112660 | 278.23 | ug/L | 97 |
| 19) acetonitrile | 2.248 | 41 | 305946 | 588.33 | ug/L | 98 |
| 20) iodomethane | 2.190 | 142 | 136805 | 55.54 | ug/L | 99 |
| 21) carbon disulfide | 2.237 | 76 | 301170 | 43.10 | ug/L | 98 |
| 22) methylene chloride | 2.347 | 84 | 133820 | 46.98 | ug/L | 93 |
| 23) methyl acetate | 2.258 | 74 | 37797 | 51.95 | ug/L # | 81 |
| 24) methyl tert butyl ether | 2.478 | 73 | 401779 | 51.92 | ug/L | 99 |
| 25) trans-1,2-dichloroethene | 2.489 | 96 | 134685 | 49.88 | ug/L | 95 |
| 26) hexane | 2.630 | 56 | 67265 | 44.94 | ug/L | 91 |
| 27) di-isopropyl ether | 2.714 | 45 | 416281 | 54.42 | ug/L | 98 |
| 28) ethyl tert-butyl ether | 2.913 | 59 | 389006 | 51.15 | ug/L | 98 |
| 29) 1,1-dichloroethane | 2.719 | 63 | 239540 | 51.86 | ug/L | 99 |
| 30) chloroprene | 2.761 | 53 | 178593 | 51.71 | ug/L | 97 |
| 31) acrylonitrile | 2.457 | 53 | 78416 | 55.16 | ug/L | 99 |
| 32) vinyl acetate | 2.698 | 86 | 26877 | 42.78 | ug/L # | 73 |
| 33) ethyl acetate | 3.013 | 45 | 37808 | 55.78 | ug/L | 89 |
| 34) 2-butanone | 3.003 | 72 | 133533 | 243.34 | ug/L | 97 |
| 35) 2,2-dichloropropane | 3.039 | 77 | 205239 | 50.36 | ug/L | 98 |
| 36) cis-1,2-dichloroethene | 3.029 | 96 | 167566 | 53.68 | ug/L | 97 |
| 37) propionitrile | 3.039 | 54 | 387614 | 611.71 | ug/L | 91 |
| 38) methyl acrylate | 3.050 | 85 | 38136 | 52.40 | ug/L # | 83 |
| 39) bromochloromethane | 3.160 | 128 | 86165 | 52.79 | ug/L | 92 |
| 40) tetrahydrofuran | 3.170 | 71 | 32886 | 49.33 | ug/L | 91 |
| 41) chloroform | 3.207 | 83 | 263191 | 47.10 | ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93002.d
Acq On : 29 Sep 2022 10:25 pm
Operator : KYLEM
Sample : bs Inst : MS2V
Misc : MS62471,V2V3777,5,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Sep 29 22:35:57 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 43) methacrylonitrile | 3.128 | 67 | 83550 | 53.89 | ug/L | | 100 |
| 44) 1,1,1-trichloroethane | 3.322 | 97 | 229495 | 48.41 | ug/L | | 98 |
| 45) cyclohexane | 3.370 | 84 | 157608 | 42.57 | ug/L | | 93 |
| 46) 1,1-dichloropropene | 3.406 | 75 | 194557 | 52.51 | ug/L | | 96 |
| 47) carbon tetrachloride | 3.417 | 119 | 216457 | 49.40 | ug/L | | 98 |
| 48) isobutyl alcohol | 3.406 | 42 | 88314 | 658.57 | ug/L | | 97 |
| 49) tert-amyl alcohol | 3.485 | 55 | 65986 | 240.24 | ug/L | # | 77 |
| 52) n-butyl alcohol | 3.800 | 56 | 466317 | 2979.74 | ug/L | | 99 |
| 53) benzene | 3.527 | 78 | 511362 | 48.63 | ug/L | | 99 |
| 54) tert-amyl methyl ether | 3.579 | 73 | 412378 | 50.06 | ug/L | | 97 |
| 55) iso-octane | 3.579 | 57 | 264706 | 47.15 | ug/L | | 98 |
| 56) heptane | 3.674 | 57 | 47601 | 43.80 | ug/L | | 92 |
| 57) isopropyl acetate | 3.501 | 87 | 43926 | 51.51 | ug/L | # | 73 |
| 58) 1,2-dichloroethane | 3.543 | 62 | 208615 | 47.64 | ug/L | | 99 |
| 59) trichloroethene | 3.910 | 95 | 153191 | 49.21 | ug/L | | 98 |
| 60) ethyl acrylate | 3.925 | 55 | 256329 | 52.38 | ug/L | | 98 |
| 61) 2-nitropropane | 4.355 | 41 | 72229 | 55.62 | ug/L | | 95 |
| 62) 2-chloroethyl vinyl ether | 4.387 | 63 | 483862 | 293.84 | ug/L | | 97 |
| 63) methyl methacrylate | 4.072 | 100 | 55852 | 52.31 | ug/L | # | 83 |
| 64) 1,2-dichloropropane | 4.072 | 63 | 145182 | 52.76 | ug/L | | 96 |
| 65) methylcyclohexane | 4.067 | 83 | 184218 | 47.51 | ug/L | | 99 |
| 66) dibromomethane | 4.130 | 93 | 116645 | 48.45 | ug/L | | 100 |
| 67) bromodichloromethane | 4.224 | 83 | 203568 | 48.10 | ug/L | | 98 |
| 68) epichlorohydrin | 4.429 | 57 | 121048 | 265.80 | ug/L | | 98 |
| 69) cis-1,3-dichloropropene | 4.507 | 75 | 220771 | 50.08 | ug/L | | 99 |
| 70) 4-methyl-2-pentanone | 4.591 | 58 | 381426 | 231.05 | ug/L | | 96 |
| 71) 3-methyl-1-butanol | 4.612 | 70 | 189222 | 1210.88 | ug/L | | 97 |
| 74) toluene | 4.743 | 92 | 328613 | 46.94 | ug/L | | 98 |
| 75) ethyl methacrylate | 4.906 | 69 | 208421 | 51.22 | ug/L | | 97 |
| 76) trans-1,3-dichloropropene | 4.885 | 75 | 209934 | 50.26 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 5.026 | 83 | 122935 | 50.65 | ug/L | | 96 |
| 78) 2-hexanone | 5.163 | 58 | 406894 | 228.93 | ug/L | | 96 |
| 79) tetrachloroethene | 5.110 | 164 | 129532 | 47.70 | ug/L | | 96 |
| 80) 1,3-dichloropropane | 5.147 | 76 | 224634 | 50.21 | ug/L | | 99 |
| 81) butyl acetate | 5.236 | 56 | 118800 | 52.66 | ug/L | | 96 |
| 82) dibromochloromethane | 5.304 | 129 | 187394 | 49.10 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 5.399 | 107 | 169227 | 49.65 | ug/L | | 96 |
| 84) n-butyl ether | 5.808 | 57 | 527077 | 52.73 | ug/L | | 99 |
| 85) chlorobenzene | 5.755 | 112 | 402096 | 47.68 | ug/L | | 99 |
| 86) 1,1,1,2-tetrachloroethane | 5.818 | 131 | 171932 | 52.12 | ug/L | | 96 |
| 87) ethylbenzene | 5.823 | 91 | 661448 | 49.95 | ug/L | | 98 |
| 88) m,p-xylene | 5.918 | 106 | 499396 | 97.26 | ug/L | | 97 |
| 89) o-xylene | 6.217 | 91 | 495632 | 48.82 | ug/L | | 96 |
| 90) styrene | 6.227 | 104 | 415685 | 49.34 | ug/L | | 98 |
| 91) butyl acrylate | 6.154 | 56 | 139413 | 55.72 | ug/L | | 96 |
| 92) n-amyl acetate | 6.327 | 70 | 113969 | 51.04 | ug/L | | 94 |
| 93) bromoform | 6.374 | 173 | 139230 | 49.29 | ug/L | | 99 |
| 94) isopropylbenzene | 6.500 | 105 | 581884 | 48.30 | ug/L | | 98 |
| 95) cis-1,4-dichloro-2-butene | 6.536 | 88 | 33238 | 23.60 | ug/L | | 92 |
| 98) bromobenzene | 6.757 | 156 | 179306 | 47.92 | ug/L | | 91 |
| 99) 1,1,2,2-tetrachloroethane | 6.730 | 83 | 221714 | 48.27 | ug/L | | 97 |
| 100) trans-1,4-dichloro-2-b... | 6.762 | 53 | 30464 | 28.12 | ug/L | | 97 |
| 101) 1,2,3-trichloropropane | 6.778 | 110 | 66483 | 48.68 | ug/L | | 99 |
| 102) n-propylbenzene | 6.825 | 91 | 654735 | 48.49 | ug/L | | 100 |
| 103) 2-chlorotoluene | 6.898 | 126 | 149194 | 48.21 | ug/L | | 98 |
| 104) 4-chlorotoluene | 6.987 | 126 | 151388 | 47.52 | ug/L | | 98 |
| 105) 1,3,5-trimethylbenzene | 6.961 | 105 | 440267 | 48.71 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93002.d
Acq On : 29 Sep 2022 10:25 pm
Operator : KYLEM
Sample : bs Inst : MS2V
Misc : MS62471,V2V3777,5,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Sep 29 22:35:57 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

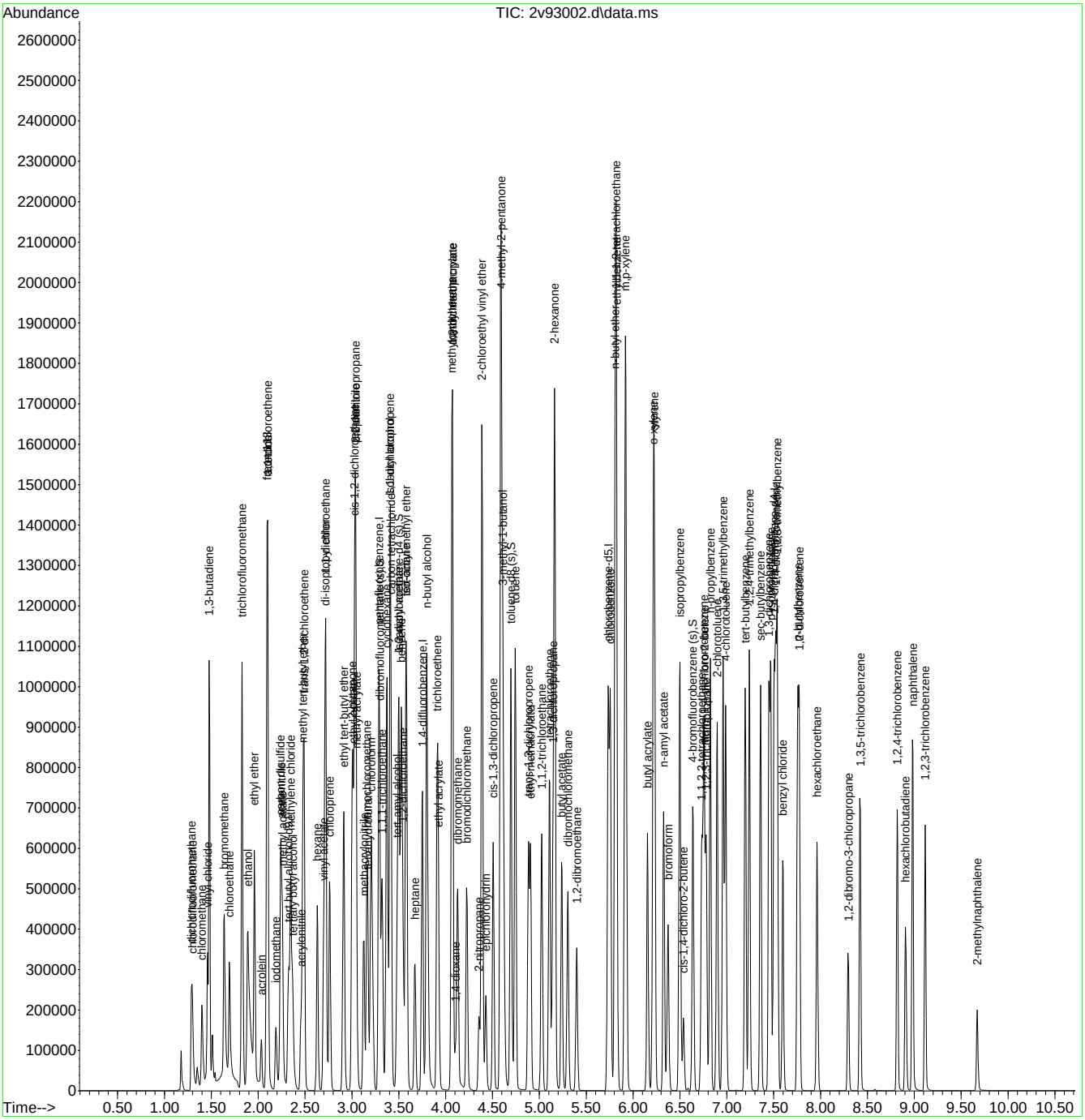
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) tert-butylbenzene | 7.197 | 119 | 373204 | 47.35 | ug/L | 98 |
| 107) 1,2,4-trimethylbenzene | 7.239 | 105 | 443254 | 46.98 | ug/L | 99 |
| 108) sec-butylbenzene | 7.360 | 105 | 511027 | 47.86 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 291328 | 47.23 | ug/L | 99 |
| 110) p-isopropyltoluene | 7.470 | 119 | 432576 | 47.76 | ug/L | 99 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 448989 | 47.59 | ug/L | 99 |
| 112) 1,4-dichlorobenzene | 7.522 | 146 | 297177 | 46.18 | ug/L | 98 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 274231 | 47.16 | ug/L | 98 |
| 114) benzyl chloride | 7.595 | 91 | 287503 | 48.01 | ug/L | 100 |
| 115) n-butylbenzene | 7.758 | 92 | 190293 | 49.40 | ug/L | 95 |
| 116) hexachloroethane | 7.962 | 201 | 63904 | 45.49 | ug/L | 86 |
| 117) 1,2-dibromo-3-chloropr... | 8.298 | 157 | 65118 | 52.91 | ug/L | 93 |
| 118) 1,3,5-trichlorobenzene | 8.424 | 180 | 166363 | 50.98 | ug/L | 98 |
| 119) 1,2,4-trichlorobenzene | 8.817 | 180 | 144374 | 50.46 | ug/L | 99 |
| 120) hexachlorobutadiene | 8.906 | 225 | 47637 | 47.14 | ug/L | 99 |
| 121) naphthalene | 8.985 | 128 | 490068 | 50.96 | ug/L | 99 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 135396 | 52.74 | ug/L | 96 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 73742 | 22.56 | ug/L | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93002.d
Acq On : 29 Sep 2022 10:25 pm
Operator : KYLEM
Sample : bs Inst : MS2V
Misc : MS62471,V2V3777,5,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Sep 29 22:35:57 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220440.d
Acq On : 30 Sep 2022 10:21 am
Operator : nicoleh
Sample : bs Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 30 10:58:56 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.251 | 65 | 506821 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.511 | 168 | 750798 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.439 | 114 | 1166077 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.564 | 117 | 1159944 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 604684 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.511 | 168 | 750798 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.542 | 113 | 379869 | 53.75 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 107.50% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.962 | 65 | 440198 | 40.61 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 81.22% | | | |
| 73) toluene-d8 (s) | 12.064 | 98 | 1335382 | 46.99 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.98% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 595618 | 53.25 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.50% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 5.977 | 45 | 454106 | 3677.85 | ug/L | 97 |
| 3) tertiary butyl alcohol | 7.366 | 59 | 286138 | 229.81 | ug/L | 86 |
| 4) 1,4-dioxane | 11.084 | 88 | 92005 | 1054.33 | ug/L | 92 |
| 6) chlorodifluoromethane | 3.995 | 51 | 278695 | 27.22 | ug/L | 97 |
| 7) dichlorodifluoromethane | 3.964 | 85 | 450741 | 44.69 | ug/L | 98 |
| 8) chloromethane | 4.352 | 50 | 573009 | 43.91 | ug/L | 99 |
| 9) vinyl chloride | 4.572 | 62 | 475209 | 47.61 | ug/L | 98 |
| 10) 1,3-butadiene | 4.624 | 54 | 204959 | 23.05 | ug/L | 97 |
| 11) bromomethane | 5.196 | 94 | 321390 | 54.60 | ug/L | 99 |
| 12) chloroethane | 5.358 | 64 | 275828 | 58.37 | ug/L | 92 |
| 13) trichlorofluoromethane | 5.788 | 101 | 579559 | 51.83 | ug/L | 95 |
| 14) ethyl ether | 6.192 | 74 | 194915 | 54.71 | ug/L | 94 |
| 15) acrolein | 6.417 | 56 | 92871 | 58.24 | ug/L | 94 |
| 16) freon 113 | 6.622 | 151 | 273068 | 51.38 | ug/L | 96 |
| 17) 1,1-dichloroethene | 6.606 | 96 | 277376 | 49.79 | ug/L | 95 |
| 18) acetone | 6.606 | 43 | 587320 | 203.46 | ug/L | 94 |
| 19) acetonitrile | 7.020 | 41 | 587786 | 493.42 | ug/L | 96 |
| 20) iodomethane | 6.853 | 142 | 551719 | 50.74 | ug/L | 92 |
| 21) carbon disulfide | 6.989 | 76 | 898917 | 48.71 | ug/L | 92 |
| 22) methylene chloride | 7.303 | 84 | 355016 | 53.78 | ug/L | 94 |
| 23) methyl acetate | 7.062 | 43 | 361688 | 50.27 | ug/L | 99 |
| 24) methyl tert butyl ether | 7.660 | 73 | 1066452 | 53.69 | ug/L | 97 |
| 25) trans-1,2-dichloroethene | 7.691 | 96 | 342600 | 54.27 | ug/L | 98 |
| 26) hexane | 8.043 | 57 | 598714 | 53.36 | ug/L | 98 |
| 27) di-isopropyl ether | 8.258 | 45 | 1554530 | 56.53 | ug/L | 98 |
| 28) ethyl tert-butyl ether | 8.714 | 59 | 1359531 | 56.81 | ug/L | 98 |
| 29) 2-butanone | 8.908 | 72 | 181860 | 234.07 | ug/L | 92 |
| 30) 1,1-dichloroethane | 8.263 | 63 | 682382 | 55.28 | ug/L | 98 |
| 31) chloroprene | 8.363 | 53 | 620252 | 52.91 | ug/L | 93 |
| 32) acrylonitrile | 7.587 | 53 | 184463 | 57.92 | ug/L | 94 |
| 33) vinyl acetate | 8.200 | 86 | 73606 | 63.22 | ug/L # | 64 |
| 34) ethyl acetate | 8.924 | 45 | 77848 | 53.97 | ug/L | 94 |
| 35) 2,2-dichloropropane | 9.002 | 77 | 542114 | 54.95 | ug/L | 99 |
| 36) cis-1,2-dichloroethene | 8.971 | 96 | 391624 | 56.40 | ug/L | 97 |
| 37) propionitrile | 8.981 | 54 | 651956 | 548.86 | ug/L | 90 |
| 38) bromochloromethane | 9.264 | 130 | 259751 | 56.27 | ug/L | 100 |
| 39) tetrahydrofuran | 9.285 | 42 | 150956 | 45.83 | ug/L | 95 |
| 40) chloroform | 9.353 | 83 | 659386 | 51.41 | ug/L | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220440.d
Acq On : 30 Sep 2022 10:21 am
Operator : nicoleh
Sample : bs Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 30 10:58:56 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) tert-butyl formate | 9.390 | 59 | 351937 | 56.43 | ug/L | | 96 |
| 42) isobutyl alcohol | 9.747 | 43 | 233911 | 470.58 | ug/L | | 94 |
| 44) methacrylonitrile | 9.175 | 67 | 167965 | 56.93 | ug/L | | 91 |
| 45) 1,1,1-trichloroethane | 9.610 | 97 | 588763 | 52.86 | ug/L | | 98 |
| 46) cyclohexane | 9.720 | 84 | 536747 | 57.68 | ug/L | | 93 |
| 47) 1,1-dichloropropene | 9.778 | 75 | 487765 | 54.39 | ug/L | | 97 |
| 48) tert-amyl alcohol | 9.909 | 73 | 120809 | 243.09 | ug/L | | 94 |
| 49) carbon tetrachloride | 9.804 | 117 | 519948 | 51.72 | ug/L | | 97 |
| 52) 2,2,4-trimethylpentane | 10.119 | 57 | 1545010 | 47.14 | ug/L | | 95 |
| 53) tert-amyl methyl ether | 10.108 | 73 | 1165570 | 48.53 | ug/L | | 99 |
| 54) n-butyl alcohol | 10.496 | 56 | 711520 | 2348.79 | ug/L | | 92 |
| 55) benzene | 10.025 | 78 | 1418556 | 51.27 | ug/L | | 97 |
| 56) heptane | 10.281 | 57 | 290280 | 43.41 | ug/L | | 98 |
| 57) isopropyl acetate | 9.941 | 87 | 86132 | 49.60 | ug/L | | 94 |
| 58) 1,2-dichloroethane | 10.046 | 62 | 581920 | 44.76 | ug/L | | 99 |
| 59) trichloroethene | 10.748 | 95 | 384828 | 48.65 | ug/L | | 95 |
| 60) ethyl acrylate | 10.738 | 55 | 632286 | 50.34 | ug/L | | 99 |
| 61) 2-nitropropane | 11.503 | 41 | 126654 | 38.36 | ug/L | | 89 |
| 62) 2-chloroethyl vinyl ether | 11.540 | 63 | 568558 | 146.68 | ug/L | | 99 |
| 63) methyl methacrylate | 11.005 | 100 | 102743 | 51.81 | ug/L | # | 79 |
| 64) 1,2-dichloropropane | 11.036 | 63 | 414941 | 50.55 | ug/L | | 94 |
| 65) methylcyclohexane | 11.047 | 83 | 604503 | 46.70 | ug/L | | 97 |
| 66) dibromomethane | 11.141 | 93 | 251169 | 46.61 | ug/L | | 95 |
| 67) bromodichloromethane | 11.299 | 83 | 529456 | 47.46 | ug/L | | 99 |
| 68) epichlorohydrin | 11.624 | 57 | 225713 | 230.38 | ug/L | | 98 |
| 69) cis-1,3-dichloropropene | 11.755 | 75 | 638522 | 52.29 | ug/L | | 86 |
| 70) 4-methyl-2-pentanone | 11.865 | 58 | 728434 | 188.19 | ug/L | | 96 |
| 71) 3-methyl-1-butanol | 11.870 | 70 | 217522 | 911.12 | ug/L | | 90 |
| 74) toluene | 12.137 | 92 | 866820 | 47.04 | ug/L | | 99 |
| 75) trans-1,3-dichloropropene | 12.321 | 75 | 569845 | 46.65 | ug/L | | 99 |
| 76) ethyl methacrylate | 12.316 | 69 | 511817 | 48.80 | ug/L | | 90 |
| 77) 1,1,2-trichloroethane | 12.541 | 83 | 283569 | 44.76 | ug/L | | 94 |
| 78) 2-hexanone | 12.709 | 58 | 681622 | 176.82 | ug/L | | 91 |
| 79) tetrachloroethene | 12.688 | 166 | 421000 | 45.89 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 12.719 | 76 | 546460 | 44.96 | ug/L | | 97 |
| 81) butyl acetate | 12.788 | 56 | 306154 | 46.22 | ug/L | | 94 |
| 82) dibromochloromethane | 12.961 | 129 | 417909 | 45.20 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.113 | 107 | 349611 | 44.56 | ug/L | | 96 |
| 84) n-butyl ether | 13.564 | 57 | 1625656 | 44.53 | ug/L | | 97 |
| 85) chlorobenzene | 13.595 | 112 | 946697 | 47.11 | ug/L | | 97 |
| 86) 1,1,1,2-tetrachloroethane | 13.663 | 131 | 368525 | 45.60 | ug/L | | 98 |
| 87) ethylbenzene | 13.658 | 91 | 1553371 | 44.96 | ug/L | | 95 |
| 88) m,p-xylene | 13.779 | 106 | 1183166 | 88.10 | ug/L | | 94 |
| 89) o-xylene | 14.177 | 91 | 1242046 | 44.05 | ug/L | | 96 |
| 90) styrene | 14.188 | 104 | 969986 | 44.39 | ug/L | | 98 |
| 91) n-amyl acetate | 14.224 | 70 | 247236 | 43.35 | ug/L | | 89 |
| 92) bromoform | 14.413 | 173 | 303059 | 45.58 | ug/L | | 97 |
| 93) butyl acrylate | 14.014 | 55 | 890956 | 45.81 | ug/L | | 99 |
| 94) isopropylbenzene | 14.528 | 105 | 1463518 | 43.52 | ug/L | | 99 |
| 95) cis-1,4-dichloro-2-butene | 14.565 | 88 | 132051 | 36.48 | ug/L | | 94 |
| 98) bromobenzene | 14.906 | 156 | 425658 | 43.98 | ug/L | | 93 |
| 99) 1,1,2,2-tetrachloroethane | 14.806 | 83 | 442335 | 43.04 | ug/L | | 100 |
| 100) trans-1,4-dichloro-2-b... | 14.838 | 53 | 115605 | 33.79 | ug/L | | 88 |
| 101) 1,2,3-trichloropropane | 14.890 | 110 | 106681 | 40.34 | ug/L | | 96 |
| 102) n-propylbenzene | 14.937 | 91 | 1777636 | 45.80 | ug/L | | 98 |
| 103) 2-chlorotoluene | 15.068 | 126 | 380525 | 45.05 | ug/L | | 93 |
| 104) 4-chlorotoluene | 15.184 | 91 | 1108269 | 44.90 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220440.d
Acq On : 30 Sep 2022 10:21 am
Operator : nicoleh
Sample : bs Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 30 10:58:56 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

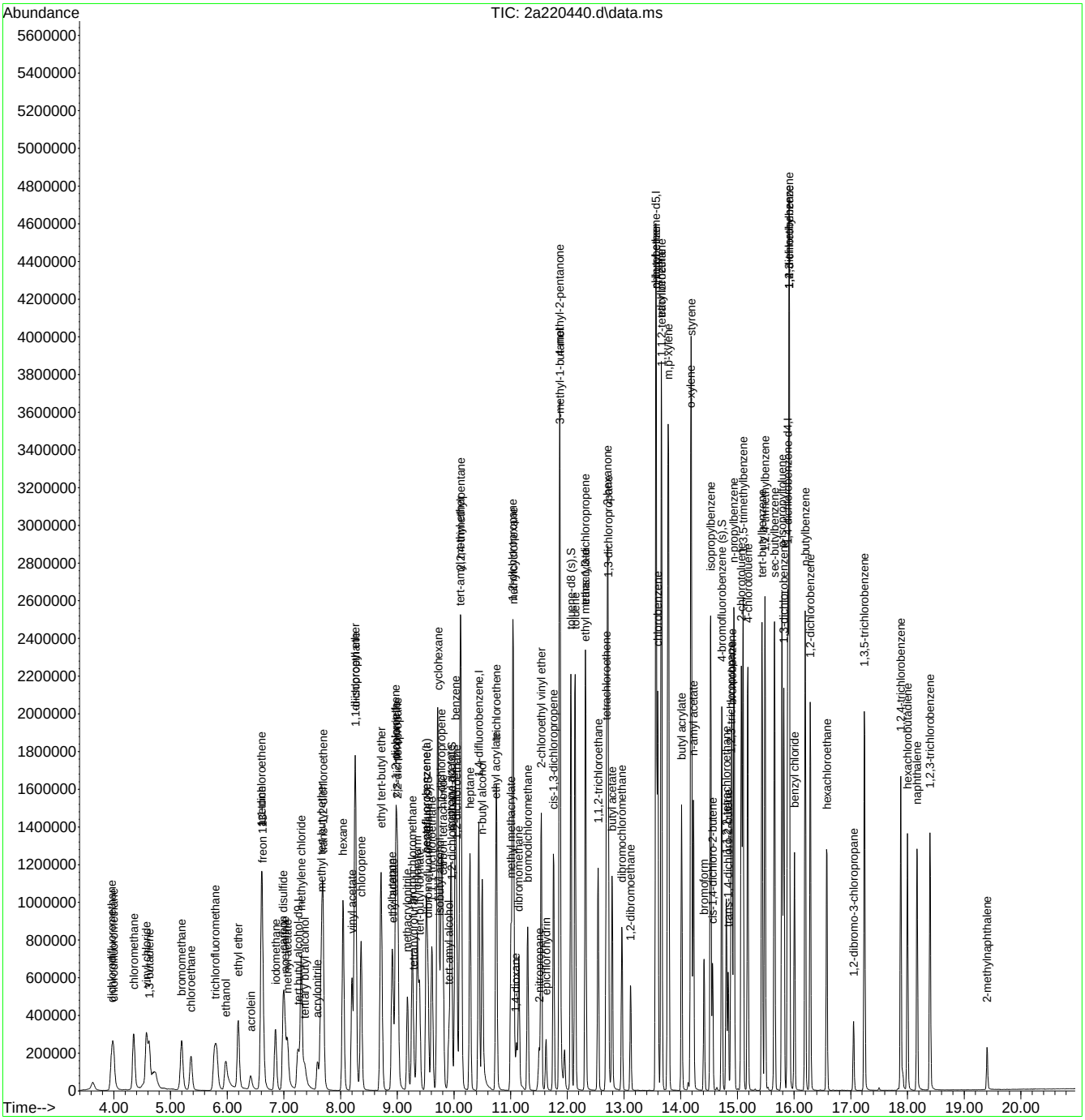
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 105) 1,3,5-trimethylbenzene | 15.100 | 105 | 1212199 | 44.97 | ug/L | 97 |
| 106) tert-butylbenzene | 15.435 | 119 | 1040486 | 44.55 | ug/L | 97 |
| 107) 1,2,4-trimethylbenzene | 15.488 | 105 | 1226929 | 44.68 | ug/L | 98 |
| 108) sec-butylbenzene | 15.656 | 105 | 1521647 | 43.70 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 15.818 | 146 | 752402 | 43.62 | ug/L | 98 |
| 110) p-isopropyltoluene | 15.787 | 119 | 1311761 | 44.17 | ug/L | 98 |
| 111) benzyl chloride | 16.007 | 91 | 758492 | 44.86 | ug/L | 99 |
| 112) 1,2,3-trimethylbenzene | 15.912 | 105 | 1228559 | 43.39 | ug/L | 97 |
| 113) 1,4-dichlorobenzene | 15.912 | 146 | 755594 | 42.12 | ug/L | 97 |
| 114) 1,2-dichlorobenzene | 16.285 | 146 | 729467 | 43.26 | ug/L | 97 |
| 115) n-butylbenzene | 16.196 | 92 | 678386 | 42.95 | ug/L | 98 |
| 116) 1,2-dibromo-3-chloropr... | 17.050 | 157 | 89100 | 39.94 | ug/L | 94 |
| 117) 1,3,5-trichlorobenzene | 17.239 | 180 | 588519 | 44.66 | ug/L | 98 |
| 118) 1,2,4-trichlorobenzene | 17.884 | 180 | 503426 | 44.42 | ug/L | 98 |
| 119) hexachlorobutadiene | 17.999 | 225 | 263571 | 45.19 | ug/L | 96 |
| 120) naphthalene | 18.167 | 128 | 926932 | 34.33 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 18.398 | 180 | 421176 | 39.47 | ug/L | 98 |
| 122) hexachloroethane | 16.578 | 201 | 209956 | 43.19 | ug/L | 98 |
| 123) 2-methylnaphthalene | 19.404 | 142 | 108023 | 7.85 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220440.d
Acq On : 30 Sep 2022 10:21 am
Operator : nicoleh
Sample : bs Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 30 10:58:56 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226607.d
Acq On : 30 Sep 2022 11:38 am
Operator : nickw
Sample : bs Inst : MSDTEST1A
Misc : MS62579, V1A9705,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 07:55:25 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.915 | 65 | 217845 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.932 | 168 | 456630 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.398 | 114 | 689951 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 609942 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.841 | 152 | 242381 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 3.932 | 168 | 456630 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 7.841 | 152 | 242381 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 201125 | 49.98 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.96% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 231327 | 48.42 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 96.84% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 801385 | 48.84 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.68% | | | |
| 97) 4-bromofluorobenzene (s) | 7.084 | 95 | 249394 | 49.59 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.18% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.751 | 88 | 44006 | 1377.95 | ug/L | 98 |
| 3) ethanol | 2.415 | 45 | 143093 | 5295.03 | ug/L | 93 |
| 4) tertiary butyl alcohol | 2.963 | 59 | 125599 | 251.52 | ug/L | 94 |
| 6) chlorodifluoromethane | 1.644 | 51 | 99555 | 25.82 | ug/L | 95 |
| 7) dichlorodifluoromethane | 1.632 | 85 | 224949 | 39.79 | ug/L | 100 |
| 8) chloromethane | 1.779 | 50 | 176808 | 44.10 | ug/L | 98 |
| 9) vinyl chloride | 1.863 | 62 | 251177 | 44.95 | ug/L | 100 |
| 10) 1,3-butadiene | 1.892 | 54 | 127012 | 25.74 | ug/L | 94 |
| 11) bromomethane | 2.097 | 96 | 82652 | 44.81 | ug/L | 92 |
| 12) chloroethane | 2.167 | 64 | 170646 | 46.13 | ug/L | 99 |
| 13) trichlorofluoromethane | 2.338 | 101 | 331085 | 48.68 | ug/L | 96 |
| 14) ethyl ether | 2.498 | 74 | 100323 | 46.41 | ug/L | 94 |
| 15) acrolein | 2.588 | 56 | 31235 | 43.83 | ug/L | 85 |
| 16) freon 113 | 2.655 | 151 | 130130 | 45.53 | ug/L | 98 |
| 17) 1,1-dichloroethene | 2.662 | 96 | 138780 | 43.67 | ug/L | 93 |
| 18) acetone | 2.665 | 58 | 76242 | 189.94 | ug/L | 93 |
| 19) acetonitrile | 2.835 | 40 | 127371 | 464.68 | ug/L | 95 |
| 20) iodomethane | 2.764 | 142 | 98246 | 57.99 | ug/L | 98 |
| 21) iso-butyl alcohol | 2.845 | 43 | 161693 | 454.34 | ug/L | 97 |
| 22) carbon disulfide | 2.819 | 76 | 365215 | 38.46 | ug/L | 99 |
| 23) methylene chloride | 2.944 | 84 | 168451 | 45.17 | ug/L | 99 |
| 24) methyl acetate | 2.845 | 74 | 41203 | 46.54 | ug/L | 98 |
| 25) methyl tert butyl ether | 3.088 | 73 | 535993 | 48.15 | ug/L | 97 |
| 26) trans-1,2-dichloroethene | 3.104 | 96 | 165494 | 48.74 | ug/L | 99 |
| 27) hexane | 3.252 | 57 | 183224 | 41.07 | ug/L | 99 |
| 28) di-isopropyl ether | 3.342 | 45 | 515775 | 49.87 | ug/L | 94 |
| 29) ethyl tert-butyl ether | 3.551 | 59 | 517423 | 48.32 | ug/L | 99 |
| 30) 2-butanone | 3.650 | 72 | 123151 | 195.88 | ug/L | 98 |
| 31) 1,1-dichloroethane | 3.355 | 63 | 300264 | 48.35 | ug/L | 100 |
| 32) chloroprene | 3.400 | 53 | 231038 | 47.01 | ug/L | 98 |
| 33) acrylonitrile | 3.069 | 53 | 67076 | 39.84 | ug/L | 97 |
| 34) vinyl acetate | 3.326 | 86 | 45205 | 52.32 | ug/L | 96 |
| 35) ethyl acetate | 3.653 | 45 | 34791 | 46.97 | ug/L | 97 |
| 36) 2,2-dichloropropane | 3.688 | 77 | 263264 | 60.75 | ug/L | 98 |
| 37) cis-1,2-dichloroethene | 3.676 | 96 | 192757 | 50.57 | ug/L | 96 |
| 38) propionitrile | 3.688 | 54 | 326036 | 493.20 | ug/L | 94 |
| 39) methyl acrylate | 3.695 | 85 | 42261 | 50.07 | ug/L # | 92 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226607.d
Acq On : 30 Sep 2022 11:38 am
Operator : nickw
Sample : bs Inst : MSDTEST1A
Misc : MS62579, V1A9705,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 07:55:25 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 40) bromochloromethane | 3.814 | 128 | 98145 | 50.63 | ug/L | | 99 |
| 41) tetrahydrofuran | 3.823 | 72 | 35706 | 44.94 | ug/L | # | 80 |
| 42) chloroform | 3.855 | 83 | 329452 | 47.65 | ug/L | | 98 |
| 44) methacrylonitrile | 3.778 | 67 | 101605 | 49.75 | ug/L | | 96 |
| 45) 1,1,1-trichloroethane | 3.977 | 97 | 285722 | 50.13 | ug/L | | 98 |
| 46) cyclohexane | 4.029 | 84 | 260137 | 48.27 | ug/L | | 91 |
| 47) 1,1-dichloropropene | 4.064 | 75 | 239904 | 48.35 | ug/L | | 99 |
| 48) carbon tetrachloride | 4.070 | 117 | 251345 | 51.36 | ug/L | | 96 |
| 49) isopropyl acetate | 4.147 | 87 | 53260 | 50.41 | ug/L | | 97 |
| 50) tert amyl alcohol | 4.125 | 55 | 49195 | 243.99 | ug/L | # | 78 |
| 53) tert-amyl methyl ether | 4.224 | 73 | 543449 | 47.92 | ug/L | | 99 |
| 54) 2,2,4-trimethylpentane | 4.231 | 57 | 324136 | 35.83 | ug/L | | 96 |
| 55) n-butyl alcohol | 4.433 | 56 | 265030 | 2260.97 | ug/L | | 99 |
| 56) benzene | 4.186 | 78 | 697814 | 48.96 | ug/L | | 99 |
| 57) heptane | 4.317 | 57 | 66303 | 37.73 | ug/L | | 94 |
| 58) 1,2-dichloroethane | 4.202 | 62 | 252014 | 48.43 | ug/L | | 99 |
| 59) trichloroethene | 4.561 | 95 | 191513 | 50.46 | ug/L | | 97 |
| 60) ethyl acrylate | 4.561 | 55 | 295406 | 52.08 | ug/L | | 96 |
| 61) 2-nitropropane | 4.988 | 41 | 75164 | 46.25 | ug/L | | 95 |
| 62) 2-chloroethyl vinyl ether | 5.007 | 63 | 100845 | 118.63 | ug/L | | 92 |
| 63) methyl methacrylate | 4.706 | 100 | 67978 | 52.13 | ug/L | | 96 |
| 64) 1,2-dichloropropane | 4.719 | 63 | 177018 | 48.46 | ug/L | | 94 |
| 65) methylcyclohexane | 4.715 | 83 | 249345 | 42.79 | ug/L | | 96 |
| 66) dibromomethane | 4.776 | 93 | 130175 | 49.39 | ug/L | | 95 |
| 67) bromodichloromethane | 4.863 | 83 | 266125 | 49.46 | ug/L | | 96 |
| 68) cis-1,3-dichloropropene | 5.133 | 75 | 310117 | 52.41 | ug/L | | 97 |
| 69) epichlorohydrin | 5.059 | 57 | 60733 | 226.53 | ug/L | | 95 |
| 70) 4-methyl-2-pentanone | 5.200 | 58 | 382697 | 201.06 | ug/L | | 99 |
| 71) 3-methyl-1-butanol | 5.210 | 70 | 113867 | 861.86 | ug/L | | 99 |
| 74) toluene | 5.357 | 92 | 449316 | 50.30 | ug/L | | 99 |
| 75) trans-1,3-dichloropropene | 5.482 | 75 | 288470 | 56.07 | ug/L | | 96 |
| 76) ethyl methacrylate | 5.489 | 69 | 287896 | 54.10 | ug/L | | 98 |
| 77) 1,1,2-trichloroethane | 5.620 | 83 | 154712 | 49.71 | ug/L | | 97 |
| 78) 2-hexanone | 5.739 | 58 | 379850 | 200.65 | ug/L | | 100 |
| 79) tetrachloroethene | 5.704 | 166 | 187678 | 49.62 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 5.733 | 76 | 302888 | 50.44 | ug/L | | 96 |
| 81) butyl acetate | 5.797 | 56 | 141394 | 53.33 | ug/L | | 97 |
| 82) dibromochloromethane | 5.887 | 129 | 210914 | 49.61 | ug/L | | 98 |
| 83) 1,2-dibromoethane | 5.983 | 107 | 201331 | 50.39 | ug/L | | 100 |
| 84) n-butyl ether | 6.320 | 57 | 661126 | 50.64 | ug/L | | 100 |
| 85) chlorobenzene | 6.310 | 112 | 495599 | 49.10 | ug/L | | 95 |
| 86) 1,1,1,2-tetrachloroethane | 6.358 | 131 | 174698 | 50.39 | ug/L | | 96 |
| 87) ethylbenzene | 6.362 | 91 | 796283 | 47.24 | ug/L | | 97 |
| 88) m,p-xylene | 6.448 | 106 | 617884 | 98.52 | ug/L | | 100 |
| 89) o-xylene | 6.718 | 106 | 314876 | 50.40 | ug/L | | 99 |
| 90) butyl acrylate | 6.637 | 55 | 393457 | 57.38 | ug/L | | 99 |
| 91) n-amyl acetate | 6.782 | 70 | 154034 | 56.89 | ug/L | | 92 |
| 92) styrene | 6.727 | 104 | 546984 | 53.60 | ug/L | | 99 |
| 93) bromoform | 6.865 | 173 | 145996 | 51.61 | ug/L | | 99 |
| 94) isopropylbenzene | 6.958 | 105 | 753266 | 47.59 | ug/L | | 99 |
| 95) cis-1,4-dichloro-2-butene | 6.987 | 88 | 75398 | 55.04 | ug/L | | 93 |
| 98) bromobenzene | 7.193 | 156 | 202964 | 52.49 | ug/L | | 96 |
| 99) 1,1,2,2-tetrachloroethane | 7.151 | 83 | 252461 | 49.64 | ug/L | | 96 |
| 100) trans-1,4-dichloro-2-b... | 7.177 | 53 | 52796 | 52.47 | ug/L | | 96 |
| 101) 1,2,3-trichloropropane | 7.199 | 110 | 79518 | 51.30 | ug/L | | 93 |
| 102) n-propylbenzene | 7.234 | 91 | 808469 | 47.40 | ug/L | | 100 |
| 103) 2-chlorotoluene | 7.308 | 126 | 179571 | 50.49 | ug/L | | 94 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226607.d
Acq On : 30 Sep 2022 11:38 am
Operator : nickw
Sample : bs Inst : MSDTEST1A
Misc : MS62579, V1A9705,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 07:55:25 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

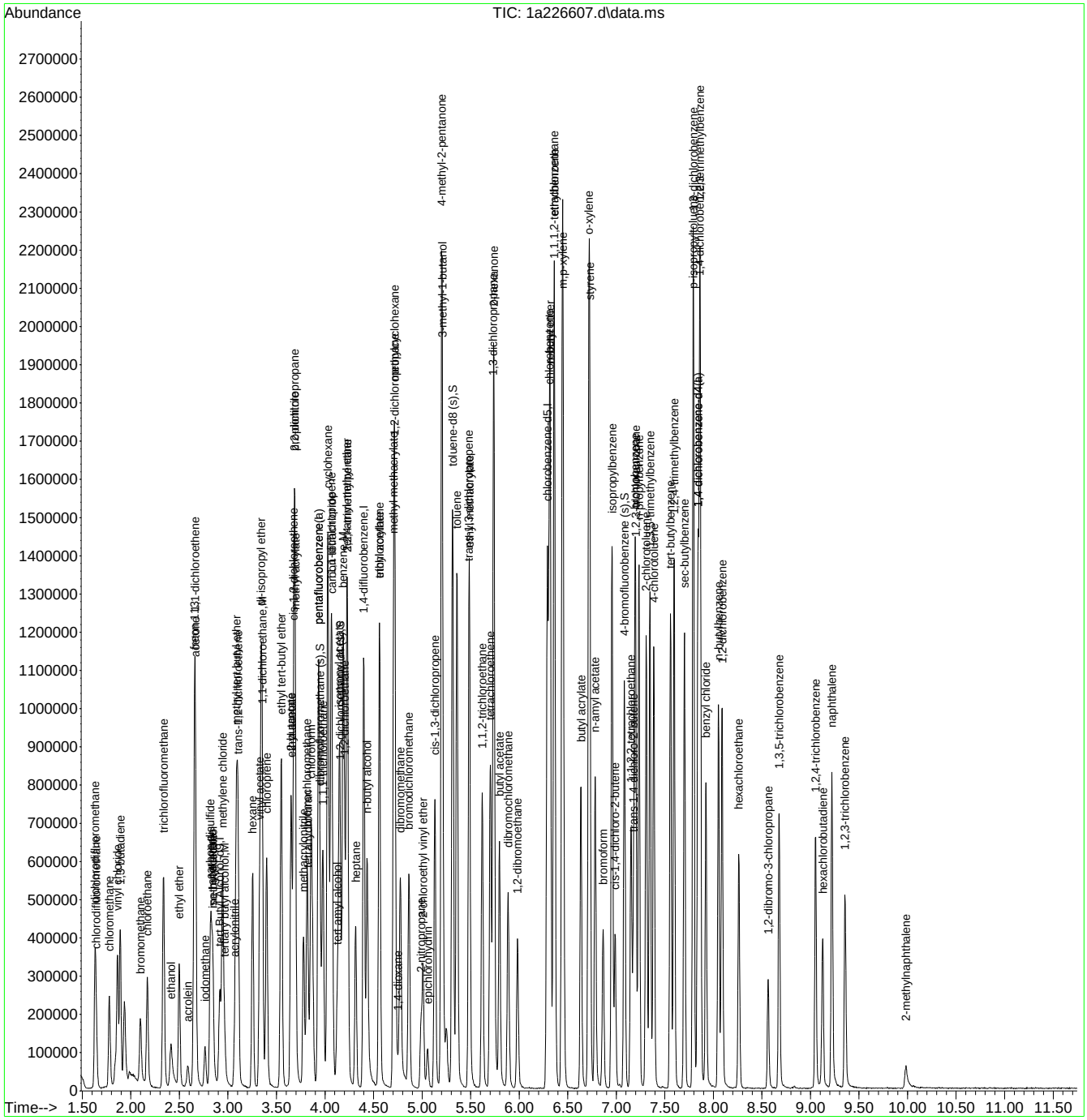
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) 4-chlorotoluene | 7.388 | 126 | 181864 | 50.33 | ug/L | 99 |
| 105) 1,3,5-trimethylbenzene | 7.347 | 105 | 549290 | 47.59 | ug/L | 99 |
| 106) tert-butylbenzene | 7.558 | 119 | 465896 | 46.28 | ug/L | 97 |
| 107) 1,2,4-trimethylbenzene | 7.597 | 105 | 565213 | 48.61 | ug/L | 99 |
| 108) sec-butylbenzene | 7.703 | 105 | 619513 | 44.22 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.796 | 146 | 329016 | 51.76 | ug/L | 97 |
| 110) p-isopropyltoluene | 7.793 | 119 | 525200 | 46.22 | ug/L | 99 |
| 111) 1,2,3-trimethylbenzene | 7.863 | 105 | 566382 | 48.10 | ug/L | 99 |
| 112) 1,4-dichlorobenzene | 7.857 | 146 | 321825 | 47.60 | ug/L | 98 |
| 113) 1,2-dichlorobenzene | 8.091 | 146 | 313935 | 51.65 | ug/L | 95 |
| 114) n-butylbenzene | 8.053 | 92 | 226087 | 45.57 | ug/L | 94 |
| 115) 1,2-dibromo-3-chloropr... | 8.566 | 157 | 58839 | 52.29 | ug/L | 96 |
| 116) 1,3,5-trichlorobenzene | 8.678 | 180 | 168229 | 46.15 | ug/L | 98 |
| 117) 1,2,4-trichlorobenzene | 9.054 | 180 | 152808 | 50.94 | ug/L | 92 |
| 118) hexachlorobutadiene | 9.128 | 225 | 50053 | 45.16 | ug/L | 97 |
| 119) naphthalene | 9.221 | 128 | 523409 | 49.68 | ug/L | 99 |
| 120) 1,2,3-trichlorobenzene | 9.355 | 180 | 123465 | 47.60 | ug/L | 97 |
| 121) hexachloroethane | 8.261 | 119 | 84202 | 47.11 | ug/L | 98 |
| 122) benzyl chloride | 7.924 | 91 | 417237 | 72.77 | ug/L | 98 |
| 123) 2-methylnaphthalene | 9.984 | 142 | 40344 | 17.57 | ug/L | 93 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226607.d
Acq On : 30 Sep 2022 11:38 am
Operator : nickw
Sample : bs Inst : MSDTEST1A
Misc : MS62579, V1A9705,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 07:55:25 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-3-22\v2v3782- due today\
Data File : 2v93126.d
Acq On : 3 Oct 2022 12:18 pm
Operator : taylors
Sample : bs
Misc : MS62619,V2V3782,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 03 12:32:50 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 279950 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 317246 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 459866 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 426030 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 184698 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 168876 | 53.38 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.76% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 170217 | 52.20 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 104.40% | | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 534046 | 50.93 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.86% | | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 161942 | 49.11 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.22% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) ethanol | 1.881 | 45 | 358140 | 6298.26 | ug/L | | 98 |
| 3) tertiary butyl alcohol | 2.358 | 59 | 214841 | 246.36 | ug/L | | 99 |
| 4) 1,4-dioxane | 4.104 | 88 | 90133 | 1262.03 | ug/L | | 94 |
| 6) chlorodifluoromethane | 1.288 | 51 | 80638 | 27.21 | ug/L | | 96 |
| 7) dichlorodifluoromethane | 1.278 | 85 | 177053 | 49.95 | ug/L | | 99 |
| 8) chloromethane | 1.388 | 52 | 79540 | 59.44 | ug/L | | 100 |
| 9) vinyl chloride | 1.451 | 62 | 293555 | 67.55 | ug/L | | 98 |
| 10) bromomethane | 1.629 | 96 | 261331 | 86.46 | ug/L | | 97 |
| 11) chloroethane | 1.681 | 64 | 258951 | 99.36 | ug/L | | 98 |
| 12) trichlorofluoromethane | 1.818 | 101 | 326748 | 50.78 | ug/L | | 99 |
| 13) 1,3-butadiene | 1.466 | 54 | 232077 | 58.22 | ug/L | | 99 |
| 14) ethyl ether | 1.954 | 74 | 81282 | 53.46 | ug/L | | 93 |
| 15) acrolein | 2.027 | 56 | 40051 | 59.28 | ug/L | | 97 |
| 16) freon 113 | 2.085 | 151 | 119251 | 46.74 | ug/L | | 95 |
| 17) 1,1-dichloroethene | 2.090 | 61 | 198140 | 51.27 | ug/L | | 98 |
| 18) acetone | 2.096 | 58 | 97834 | 239.14 | ug/L | | 100 |
| 19) acetonitrile | 2.237 | 41 | 341480 | 649.96 | ug/L | | 97 |
| 20) iodomethane | 2.179 | 142 | 104045 | 43.75 | ug/L | | 98 |
| 21) carbon disulfide | 2.227 | 76 | 296291 | 41.97 | ug/L | | 97 |
| 22) methylene chloride | 2.342 | 84 | 145011 | 50.39 | ug/L | | 94 |
| 23) methyl acetate | 2.253 | 74 | 41518 | 56.48 | ug/L | # | 78 |
| 24) methyl tert butyl ether | 2.473 | 73 | 452636 | 57.89 | ug/L | | 99 |
| 25) trans-1,2-dichloroethene | 2.483 | 96 | 147918 | 54.22 | ug/L | | 98 |
| 26) hexane | 2.625 | 56 | 79235 | 52.40 | ug/L | | 94 |
| 27) di-isopropyl ether | 2.709 | 45 | 477120 | 61.73 | ug/L | | 98 |
| 28) ethyl tert-butyl ether | 2.908 | 59 | 445985 | 58.05 | ug/L | | 97 |
| 29) 1,1-dichloroethane | 2.714 | 63 | 269469 | 57.74 | ug/L | | 99 |
| 30) chloroprene | 2.756 | 53 | 200599 | 57.48 | ug/L | | 97 |
| 31) acrylonitrile | 2.447 | 53 | 84482 | 58.82 | ug/L | | 94 |
| 32) vinyl acetate | 2.693 | 86 | 36439 | 57.41 | ug/L | # | 68 |
| 33) ethyl acetate | 3.008 | 45 | 44007 | 64.26 | ug/L | | 84 |
| 34) 2-butanone | 2.997 | 72 | 142019 | 256.16 | ug/L | | 93 |
| 35) 2,2-dichloropropane | 3.034 | 77 | 253440 | 61.55 | ug/L | | 98 |
| 36) cis-1,2-dichloroethene | 3.024 | 96 | 181733 | 57.63 | ug/L | | 90 |
| 37) propionitrile | 3.034 | 54 | 433315 | 676.85 | ug/L | | 93 |
| 38) methyl acrylate | 3.045 | 85 | 41741 | 56.77 | ug/L | # | 88 |
| 39) bromochloromethane | 3.155 | 128 | 92096 | 55.85 | ug/L | | 92 |
| 40) tetrahydrofuran | 3.165 | 71 | 36234 | 53.80 | ug/L | | 93 |
| 41) chloroform | 3.202 | 83 | 288892 | 51.17 | ug/L | | 98 |
| 43) methacrylonitrile | 3.123 | 67 | 92027 | 58.76 | ug/L | | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-3-22\v2v3782- due today\
Data File : 2v93126.d
Acq On : 3 Oct 2022 12:18 pm
Operator : taylors
Sample : bs
Misc : MS62619,V2V3782,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 03 12:32:50 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 44) | 1,1,1-trichloroethane | 3.317 | 97 | 249995 | 52.19 | ug/L | | 99 |
| 45) | cyclohexane | 3.364 | 84 | 193724 | 51.79 | ug/L | | 95 |
| 46) | 1,1-dichloropropene | 3.401 | 75 | 215197 | 57.49 | ug/L | | 97 |
| 47) | carbon tetrachloride | 3.412 | 119 | 231278 | 52.25 | ug/L | | 98 |
| 48) | isobutyl alcohol | 3.401 | 42 | 97249 | 717.79 | ug/L | | 97 |
| 49) | tert-amyl alcohol | 3.480 | 55 | 74870 | 269.80 | ug/L | # | 73 |
| 52) | n-butyl alcohol | 3.794 | 56 | 541721 | 3299.03 | ug/L | | 98 |
| 53) | benzene | 3.522 | 78 | 571709 | 51.81 | ug/L | | 99 |
| 54) | tert-amyl methyl ether | 3.574 | 73 | 472257 | 54.64 | ug/L | | 97 |
| 55) | iso-octane | 3.574 | 57 | 300169 | 50.96 | ug/L | | 97 |
| 56) | heptane | 3.668 | 57 | 56617 | 49.65 | ug/L | | 95 |
| 57) | isopropyl acetate | 3.501 | 87 | 49819 | 55.67 | ug/L | # | 82 |
| 58) | 1,2-dichloroethane | 3.537 | 62 | 233276 | 50.77 | ug/L | | 99 |
| 59) | trichloroethene | 3.904 | 95 | 164393 | 50.33 | ug/L | | 93 |
| 60) | ethyl acrylate | 3.920 | 55 | 290610 | 56.60 | ug/L | | 98 |
| 61) | 2-nitropropane | 4.355 | 41 | 60521 | 44.41 | ug/L | | 96 |
| 62) | 2-chloroethyl vinyl ether | 4.387 | 63 | 571687 | 330.87 | ug/L | | 98 |
| 63) | methyl methacrylate | 4.072 | 100 | 61636 | 55.01 | ug/L | # | 85 |
| 64) | 1,2-dichloropropane | 4.067 | 63 | 162312 | 56.21 | ug/L | | 99 |
| 65) | methylcyclohexane | 4.067 | 83 | 207537 | 51.01 | ug/L | | 98 |
| 66) | dibromomethane | 4.125 | 93 | 126587 | 50.11 | ug/L | | 94 |
| 67) | bromodichloromethane | 4.224 | 83 | 227923 | 51.32 | ug/L | | 99 |
| 68) | epichlorohydrin | 4.423 | 57 | 141725 | 296.59 | ug/L | | 94 |
| 69) | cis-1,3-dichloropropene | 4.507 | 75 | 257740 | 55.72 | ug/L | | 99 |
| 70) | 4-methyl-2-pentanone | 4.586 | 58 | 445657 | 257.28 | ug/L | | 94 |
| 71) | 3-methyl-1-butanol | 4.607 | 70 | 219101 | 1336.25 | ug/L | | 92 |
| 74) | toluene | 4.743 | 92 | 365174 | 51.11 | ug/L | | 97 |
| 75) | ethyl methacrylate | 4.901 | 69 | 237772 | 57.25 | ug/L | | 94 |
| 76) | trans-1,3-dichloropropene | 4.880 | 75 | 241691 | 56.70 | ug/L | | 97 |
| 77) | 1,1,2-trichloroethane | 5.021 | 83 | 137769 | 55.61 | ug/L | | 94 |
| 78) | 2-hexanone | 5.163 | 58 | 466009 | 256.88 | ug/L | | 98 |
| 79) | tetrachloroethene | 5.105 | 164 | 137772 | 49.71 | ug/L | | 99 |
| 80) | 1,3-dichloropropane | 5.142 | 76 | 256266 | 56.12 | ug/L | | 99 |
| 81) | butyl acetate | 5.236 | 56 | 138713 | 60.24 | ug/L | | 98 |
| 82) | dibromochloromethane | 5.299 | 129 | 198078 | 50.85 | ug/L | | 99 |
| 83) | 1,2-dibromoethane | 5.393 | 107 | 185680 | 53.37 | ug/L | | 92 |
| 84) | n-butyl ether | 5.808 | 57 | 618884 | 60.66 | ug/L | | 99 |
| 85) | chlorobenzene | 5.755 | 112 | 429422 | 49.89 | ug/L | | 97 |
| 86) | 1,1,1,2-tetrachloroethane | 5.813 | 131 | 185432 | 55.08 | ug/L | | 97 |
| 87) | ethylbenzene | 5.818 | 91 | 734834 | 54.37 | ug/L | | 98 |
| 88) | m,p-xylene | 5.918 | 106 | 555660 | 106.02 | ug/L | | 98 |
| 89) | o-xylene | 6.217 | 91 | 563687 | 54.40 | ug/L | | 98 |
| 90) | styrene | 6.227 | 104 | 477812 | 55.57 | ug/L | | 99 |
| 91) | butyl acrylate | 6.154 | 56 | 164773 | 64.53 | ug/L | | 96 |
| 92) | n-amyl acetate | 6.327 | 70 | 137176 | 60.19 | ug/L | | 95 |
| 93) | bromoform | 6.374 | 173 | 146558 | 50.83 | ug/L | | 99 |
| 94) | isopropylbenzene | 6.494 | 105 | 647370 | 52.65 | ug/L | | 98 |
| 95) | cis-1,4-dichloro-2-butene | 6.536 | 88 | 37555 | 26.12 | ug/L | | 84 |
| 98) | bromobenzene | 6.757 | 156 | 186924 | 50.04 | ug/L | | 96 |
| 99) | 1,1,2,2-tetrachloroethane | 6.730 | 83 | 263542 | 57.47 | ug/L | | 99 |
| 100) | trans-1,4-dichloro-2-b... | 6.762 | 53 | 35201 | 32.55 | ug/L | | 95 |
| 101) | 1,2,3-trichloropropane | 6.778 | 110 | 73347 | 53.80 | ug/L | | 95 |
| 102) | n-propylbenzene | 6.825 | 91 | 728266 | 54.03 | ug/L | | 99 |
| 103) | 2-chlorotoluene | 6.898 | 126 | 161871 | 52.39 | ug/L | | 94 |
| 104) | 4-chlorotoluene | 6.987 | 126 | 168206 | 52.89 | ug/L | | 93 |
| 105) | 1,3,5-trimethylbenzene | 6.961 | 105 | 485563 | 53.81 | ug/L | | 99 |
| 106) | tert-butylbenzene | 7.197 | 119 | 405251 | 51.51 | ug/L | | 97 |
| 107) | 1,2,4-trimethylbenzene | 7.239 | 105 | 502703 | 53.37 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-3-22\v2v3782- due today\
Data File : 2v93126.d
Acq On : 3 Oct 2022 12:18 pm
Operator : taylors
Sample : bs
Misc : MS62619,V2V3782,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 03 12:32:50 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

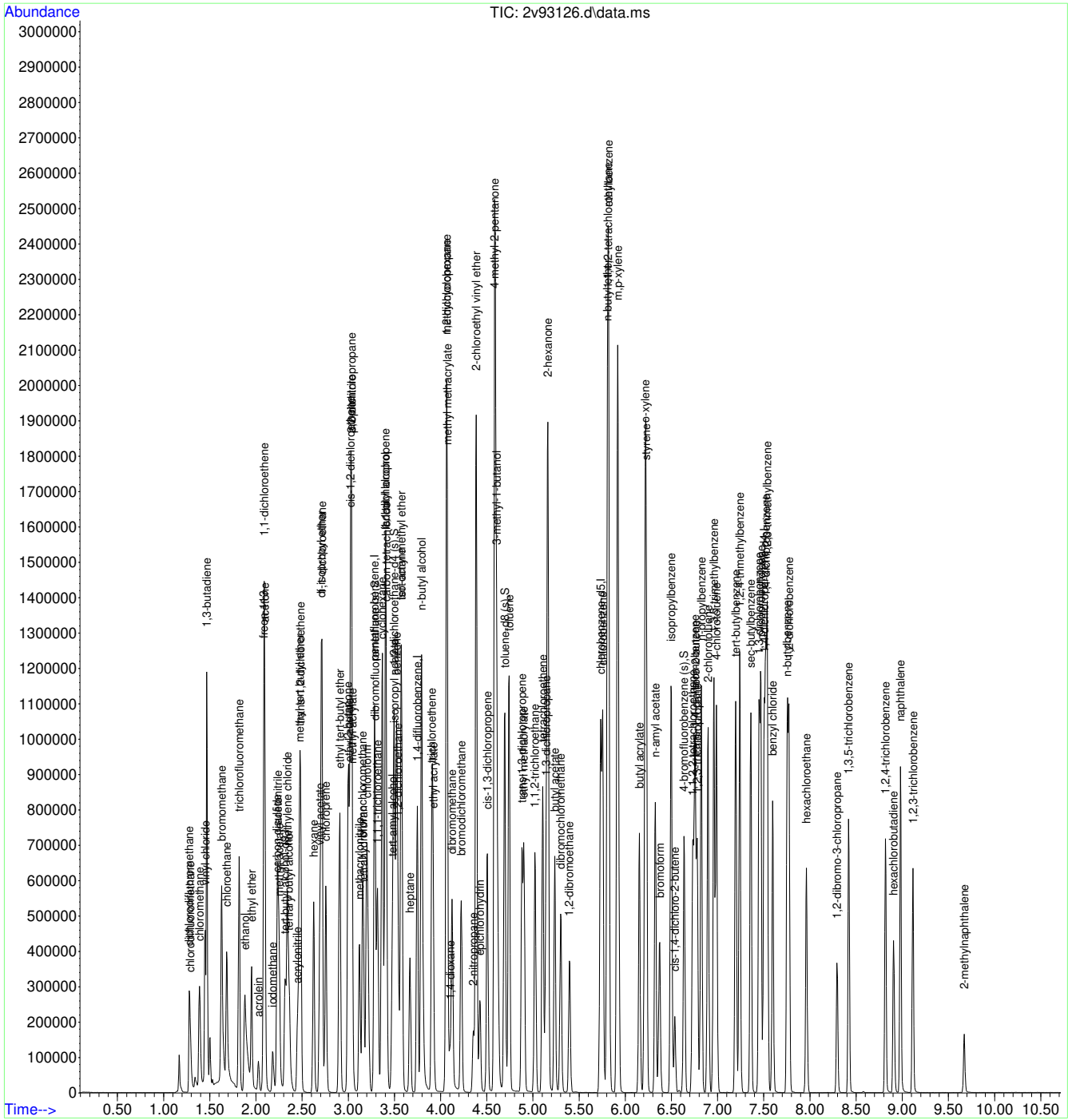
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 108) sec-butylbenzene | 7.360 | 105 | 569421 | 53.42 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 315830 | 51.29 | ug/L | 99 |
| 110) p-isopropyltoluene | 7.470 | 119 | 473575 | 52.38 | ug/L | 99 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 509984 | 54.15 | ug/L | 99 |
| 112) 1,4-dichlorobenzene | 7.522 | 146 | 326865 | 50.88 | ug/L | 99 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 304277 | 52.42 | ug/L | 99 |
| 114) benzyl chloride | 7.595 | 91 | 406493 | 68.00 | ug/L | 98 |
| 115) n-butylbenzene | 7.753 | 92 | 216106 | 56.19 | ug/L | 94 |
| 116) hexachloroethane | 7.962 | 201 | 64562 | 46.03 | ug/L | 90 |
| 117) 1,2-dibromo-3-chloropr... | 8.293 | 157 | 65691 | 53.46 | ug/L | 98 |
| 118) 1,3,5-trichlorobenzene | 8.419 | 180 | 167837 | 51.51 | ug/L | 99 |
| 119) 1,2,4-trichlorobenzene | 8.817 | 180 | 147615 | 51.68 | ug/L | 95 |
| 120) hexachlorobutadiene | 8.906 | 225 | 47879 | 47.46 | ug/L | 98 |
| 121) naphthalene | 8.980 | 128 | 489212 | 50.96 | ug/L | 100 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 129272 | 50.44 | ug/L | 95 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 61354 | 18.80 | ug/L | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-3-22\v2v3782- due today\
Data File : 2v93126.d
Acq On : 3 Oct 2022 12:18 pm
Operator : taylors
Sample : bs
Misc : MS62619,V2V3782,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 03 12:32:50 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\vl10519-due today\
Data File : l347831.d
Acq On : 4 Oct 2022 11:19 am
Operator : nicoleh
Sample : bs Inst : GCMSL
Misc : MS62669,VL10519,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 01:45:18 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.082 | 65 | 145848 | 500.00 | ug/L | | -0.01 |
| 5) pentafluorobenzene | 4.305 | 168 | 220995 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.873 | 114 | 329903 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.273 | 117 | 319292 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.465 | 152 | 120752 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.305 | 168 | 219248 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.465 | 152 | 120510 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.311 | 113 | 94587 | 47.39 | ug/L | | -0.01 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.78% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.568 | 65 | 104503 | 43.40 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 86.80% | | | | |
| 73) toluene-d8 (s) | 6.021 | 98 | 397479 | 45.23 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 90.46% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.351 | 95 | 150103 | 47.72 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.44% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.309 | 88 | 12820 | 337.11 | ug/L | | 97 |
| 3) ethanol | 2.504 | 45 | 77633 | 2132.25 | ug/L | | 94 |
| 4) tertiary butyl alcohol | 3.140 | 59 | 109230 | 244.36 | ug/L | | 96 |
| 6) chlorodifluoromethane | 1.673 | 51 | 172415 | 69.77 | ug/L | # | 91 |
| 7) dichlorodifluoromethane | 1.657 | 85 | 194058 | 53.79 | ug/L | | 98 |
| 8) chloromethane | 1.818 | 50 | 120418 | 49.93 | ug/L | | 97 |
| 9) vinyl chloride | 1.901 | 62 | 140504 | 47.24 | ug/L | | 96 |
| 10) 1,3-butadiene | 1.930 | 54 | 154025 | 52.68 | ug/L | | 94 |
| 11) bromomethane | 2.158 | 96 | 53347 | 43.07 | ug/L | | 92 |
| 12) chloroethane | 2.238 | 64 | 76702 | 44.09 | ug/L | | 99 |
| 13) trichlorofluoromethane | 2.418 | 101 | 219558 | 52.78 | ug/L | | 96 |
| 14) ethyl ether | 2.601 | 74 | 88727 | 61.05 | ug/L | | 86 |
| 15) acrolein | 2.703 | 56 | 38521 | 72.99 | ug/L | | 98 |
| 16) freon 113 | 2.774 | 151 | 101562 | 62.02 | ug/L | | 99 |
| 17) 1,1-dichloroethene | 2.784 | 96 | 117781 | 57.73 | ug/L | | 98 |
| 18) acetone | 2.793 | 58 | 74648 | 208.27 | ug/L | | 93 |
| 19) acetonitrile | 2.986 | 40 | 94873 | 408.53 | ug/L | | 95 |
| 20) iodomethane | 2.896 | 142 | 96390 | 51.56 | ug/L | | 98 |
| 21) iso-butyl alcohol | 4.452 | 43 | 68770 | 294.39 | ug/L | | 89 |
| 22) carbon disulfide | 2.960 | 76 | 340480 | 54.24 | ug/L | | 95 |
| 23) methylene chloride | 3.111 | 84 | 129906 | 54.69 | ug/L | | 98 |
| 24) methyl acetate | 3.002 | 74 | 35885 | 49.89 | ug/L | | 92 |
| 25) methyl tert butyl ether | 3.278 | 73 | 396936 | 51.39 | ug/L | | 94 |
| 26) trans-1,2-dichloroethene | 3.297 | 96 | 122999 | 55.72 | ug/L | | 95 |
| 27) hexane | 3.477 | 57 | 186998 | 60.24 | ug/L | | 94 |
| 28) di-isopropyl ether | 3.583 | 45 | 364739 | 58.19 | ug/L | | 94 |
| 29) ethyl tert-butyl ether | 3.833 | 59 | 409099 | 55.70 | ug/L | | 95 |
| 30) 2-butanone | 3.952 | 72 | 104023 | 188.93 | ug/L | | 88 |
| 31) 1,1-dichloroethane | 3.595 | 63 | 208777 | 53.87 | ug/L | | 92 |
| 32) chloroprene | 3.644 | 53 | 176882 | 56.11 | ug/L | | 95 |
| 33) acrylonitrile | 3.262 | 53 | 71870 | 56.38 | ug/L | | 97 |
| 34) vinyl acetate | 3.567 | 86 | 35486 | 53.07 | ug/L | # | 76 |
| 35) ethyl acetate | 3.958 | 45 | 28325 | 50.66 | ug/L | | 98 |
| 36) 2,2-dichloropropane | 3.993 | 77 | 171874 | 45.59 | ug/L | | 99 |
| 37) cis-1,2-dichloroethene | 3.981 | 96 | 131108 | 52.51 | ug/L | | 96 |
| 38) propionitrile | 3.997 | 54 | 240798 | 457.61 | ug/L | | 94 |
| 39) methyl acrylate | 4.006 | 85 | 29744 | 45.85 | ug/L | | 94 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\vl10519-due today\
Data File : l347831.d
Acq On : 4 Oct 2022 11:19 am
Operator : nicoleh
Sample : bs Inst : GCMSL
Misc : MS62669,VL10519,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 01:45:18 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 40) bromochloromethane | 4.147 | 128 | 60591 | 55.70 | ug/L | | 98 |
| 41) tetrahydrofuran | 4.157 | 72 | 30220 | 49.12 | ug/L | | 97 |
| 42) chloroform | 4.202 | 83 | 217001 | 48.88 | ug/L | | 95 |
| 44) methacrylonitrile | 4.109 | 67 | 80779 | 52.33 | ug/L | | 98 |
| 45) 1,1,1-trichloroethane | 4.343 | 97 | 191905 | 50.44 | ug/L | | 99 |
| 46) cyclohexane | 4.401 | 84 | 168044 | 47.99 | ug/L | | 98 |
| 47) 1,1-dichloropropene | 4.452 | 75 | 157610 | 51.86 | ug/L | | 96 |
| 48) carbon tetrachloride | 4.455 | 117 | 155600 | 49.34 | ug/L | | 99 |
| 49) isopropyl acetate | 4.561 | 87 | 38373 | 48.63 | ug/L | | 95 |
| 50) tert amyl alcohol | 4.545 | 55 | 44290 | 177.18 | ug/L | # | 87 |
| 53) tert-amyl methyl ether | 4.654 | 73 | 352248 | 47.95 | ug/L | | 95 |
| 54) 2,2,4-trimethylpentane | 4.658 | 57 | 320234 | 54.85 | ug/L | | 97 |
| 55) n-butyl alcohol | 4.927 | 56 | 190462 | 1164.50 | ug/L | | 98 |
| 56) benzene | 4.600 | 78 | 456953 | 53.20 | ug/L | | 97 |
| 57) heptane | 4.770 | 57 | 70578 | 52.41 | ug/L | | 83 |
| 58) 1,2-dichloroethane | 4.622 | 62 | 157222 | 48.50 | ug/L | | 99 |
| 59) trichloroethene | 5.068 | 95 | 133191 | 54.83 | ug/L | | 94 |
| 60) ethyl acrylate | 5.081 | 55 | 230622 | 57.29 | ug/L | | 99 |
| 61) 2-nitropropane | 5.617 | 41 | 54891 | 46.60 | ug/L | | 91 |
| 62) 2-chloroethyl vinyl ether | 5.649 | 63 | 425589 | 302.65 | ug/L | | 99 |
| 63) methyl methacrylate | 5.261 | 100 | 48326 | 51.53 | ug/L | # | 87 |
| 64) 1,2-dichloropropane | 5.264 | 63 | 119430 | 56.36 | ug/L | | 88 |
| 65) methylcyclohexane | 5.254 | 83 | 205934 | 53.83 | ug/L | | 91 |
| 66) dibromomethane | 5.338 | 93 | 81919 | 52.45 | ug/L | | 96 |
| 67) bromodichloromethane | 5.450 | 83 | 175589 | 49.33 | ug/L | | 92 |
| 68) cis-1,3-dichloropropene | 5.797 | 75 | 191759 | 48.03 | ug/L | | 99 |
| 69) epichlorohydrin | 5.704 | 57 | 98194 | 213.39 | ug/L | | 94 |
| 70) 4-methyl-2-pentanone | 5.890 | 58 | 301981 | 204.96 | ug/L | | 93 |
| 71) 3-methyl-1-butanol | 5.909 | 70 | 93297 | 517.26 | ug/L | | 88 |
| 74) toluene | 6.076 | 92 | 307900 | 51.36 | ug/L | | 98 |
| 75) trans-1,3-dichloropropene | 6.246 | 75 | 177314 | 42.72 | ug/L | | 94 |
| 76) ethyl methacrylate | 6.265 | 69 | 201367 | 48.19 | ug/L | | 97 |
| 77) 1,1,2-trichloroethane | 6.419 | 83 | 110743 | 53.02 | ug/L | | 98 |
| 78) 2-hexanone | 6.583 | 58 | 310435 | 186.88 | ug/L | | 92 |
| 79) tetrachloroethene | 6.516 | 166 | 128656 | 53.56 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 6.567 | 76 | 198262 | 48.83 | ug/L | | 98 |
| 81) butyl acetate | 6.663 | 56 | 117490 | 54.23 | ug/L | | 99 |
| 82) dibromochloromethane | 6.756 | 129 | 128073 | 45.87 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 6.872 | 107 | 135020 | 48.26 | ug/L | | 97 |
| 84) n-butyl ether | 7.340 | 57 | 490815 | 54.83 | ug/L | | 96 |
| 85) chlorobenzene | 7.295 | 112 | 318113 | 51.92 | ug/L | | 97 |
| 86) 1,1,1,2-tetrachloroethane | 7.366 | 131 | 110020 | 49.59 | ug/L | | 98 |
| 87) ethylbenzene | 7.372 | 91 | 525299 | 49.90 | ug/L | | 99 |
| 88) m,p-xylene | 7.488 | 106 | 401496 | 95.15 | ug/L | | 99 |
| 89) o-xylene | 7.844 | 106 | 212648 | 50.39 | ug/L | | 99 |
| 90) butyl acrylate | 7.761 | 55 | 292325 | 54.11 | ug/L | | 99 |
| 91) styrene | 7.857 | 104 | 338295 | 49.43 | ug/L | | 99 |
| 92) bromoform | 8.037 | 173 | 84306 | 42.91 | ug/L | | 98 |
| 93) isopropylbenzene | 8.178 | 105 | 537225 | 50.71 | ug/L | | 97 |
| 94) cis-1,4-dichloro-2-butene | 8.232 | 88 | 23799 | 30.21 | ug/L | # | 75 |
| 97) bromobenzene | 8.495 | 156 | 128266 | 52.34 | ug/L | | 92 |
| 98) 1,1,2,2-tetrachloroethane | 8.463 | 83 | 192253 | 47.57 | ug/L | | 99 |
| 99) trans-1,4-dichloro-2-b... | 8.499 | 53 | 19944 | 34.72 | ug/L | | 80 |
| 100) 1,2,3-trichloropropane | 8.524 | 110 | 52123 | 44.78 | ug/L | | 97 |
| 101) n-propylbenzene | 8.572 | 91 | 593495 | 51.31 | ug/L | | 100 |
| 102) 2-chlorotoluene | 8.672 | 126 | 117526 | 51.63 | ug/L | | 92 |
| 103) 4-chlorotoluene | 8.787 | 126 | 119753 | 52.48 | ug/L | | 86 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\vl10519-due today\
Data File : l347831.d
Acq On : 4 Oct 2022 11:19 am
Operator : nicoleh
Sample : bs Inst : GCMSL
Misc : MS62669,VL10519,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 01:45:18 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

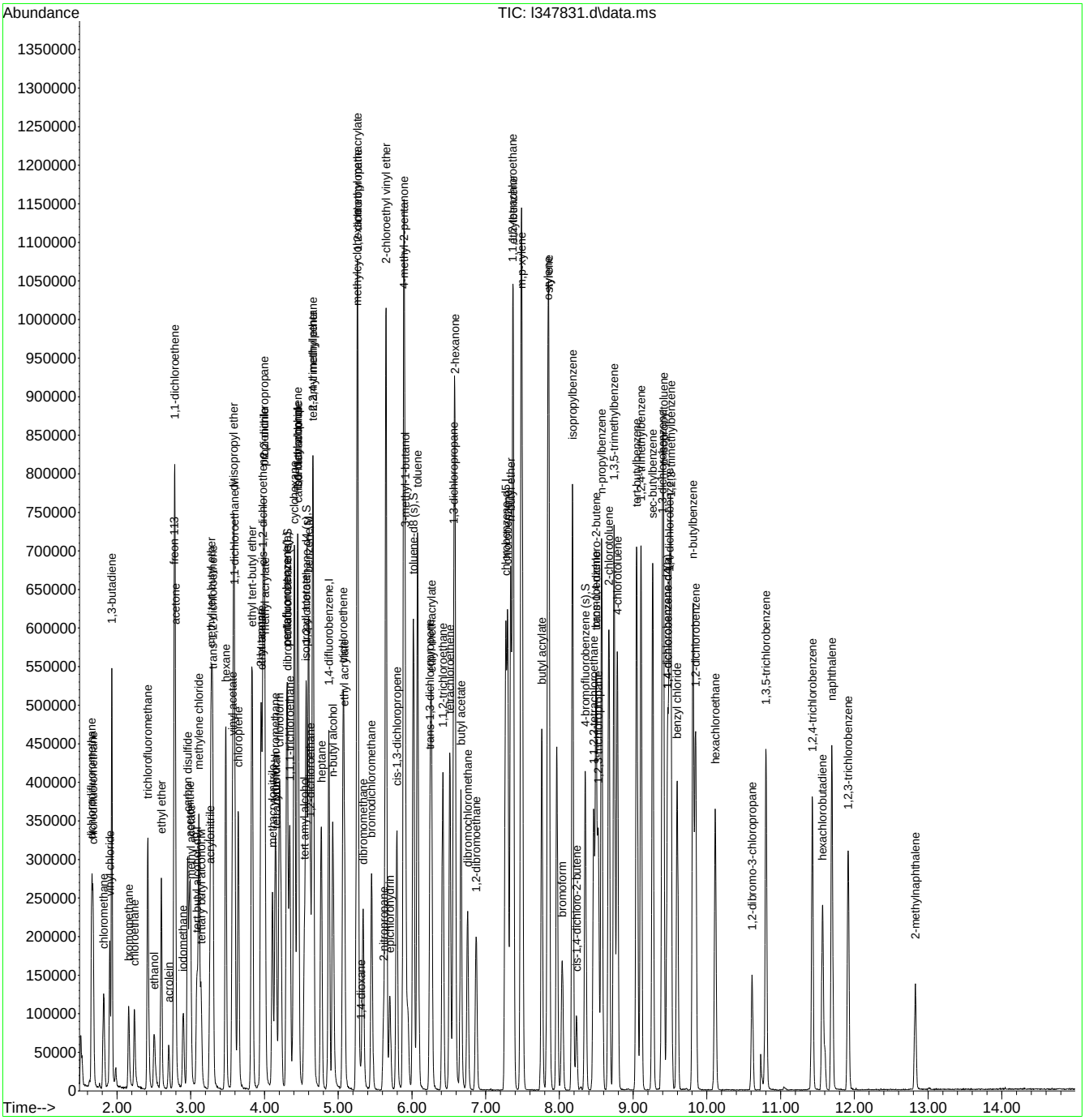
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) 1,3,5-trimethylbenzene | 8.743 | 105 | 414579 | 49.99 | ug/L | 99 |
| 105) tert-butylbenzene | 9.051 | 119 | 365816 | 52.63 | ug/L | 99 |
| 106) 1,2,4-trimethylbenzene | 9.105 | 105 | 415161 | 48.92 | ug/L | 100 |
| 107) sec-butylbenzene | 9.266 | 105 | 516609 | 52.00 | ug/L | 98 |
| 108) 1,3-dichlorobenzene | 9.394 | 146 | 221270 | 53.47 | ug/L | 97 |
| 109) p-isopropyltoluene | 9.413 | 119 | 398808 | 50.90 | ug/L | 97 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 205878 | 50.73 | ug/L | 99 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 393830 | 48.89 | ug/L | 99 |
| 112) 1,2-dichlorobenzene | 9.846 | 146 | 202365 | 49.70 | ug/L | 98 |
| 113) n-butylbenzene | 9.811 | 92 | 217349 | 55.43 | ug/L | 97 |
| 114) 1,2-dibromo-3-chloropr... | 10.613 | 157 | 44817 | 46.93 | ug/L | 96 |
| 115) 1,3,5-trichlorobenzene | 10.799 | 180 | 147527 | 56.16 | ug/L | 95 |
| 116) 1,2,4-trichlorobenzene | 11.428 | 180 | 123132 | 57.88 | ug/L | 96 |
| 117) hexachlorobutadiene | 11.566 | 225 | 47418 | 55.67 | ug/L | 96 |
| 118) naphthalene | 11.695 | 128 | 374017 | 52.07 | ug/L | 99 |
| 119) 1,2,3-trichlorobenzene | 11.913 | 180 | 107027 | 55.57 | ug/L | 86 |
| 120) hexachloroethane | 10.113 | 119 | 82101 | 50.54 | ug/L | 97 |
| 121) benzyl chloride | 9.596 | 91 | 313208 | 44.66 | ug/L | 98 |
| 122) 2-methylnaphthalene | 12.828 | 142 | 68288 | 26.55 | ug/L | 88 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\vl10519-due today\
Data File : l347831.d
Acq On : 4 Oct 2022 11:19 am
Operator : nicoleh
Sample : bs Inst : GCMSL
Misc : MS62669,VL10519,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 01:45:18 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\vl10519-due today\
Data File : l347832.d
Acq On : 4 Oct 2022 11:42 am
Operator : nicoleh
Sample : bsd Inst : GCMSL
Misc : MS62669,VL10519,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 01:46:40 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.085 | 65 | 172278 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.305 | 168 | 223542 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.876 | 114 | 340422 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.270 | 117 | 332412 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.465 | 152 | 126749 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.305 | 168 | 223133 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.465 | 152 | 126766 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.318 | 113 | 97938 | 48.51 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.02% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.568 | 65 | 104708 | 42.14 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 84.28% | | | | |
| 73) toluene-d8 (s) | 6.022 | 98 | 402194 | 43.96 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 87.92% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.351 | 95 | 158527 | 48.01 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.02% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.303 | 88 | 19290 | 429.42 | ug/L | | 89 |
| 3) ethanol | 2.508 | 45 | 110021 | 2558.22 | ug/L | | 99 |
| 4) tertiary butyl alcohol | 3.143 | 59 | 128649 | 243.65 | ug/L | | 99 |
| 6) chlorodifluoromethane | 1.677 | 51 | 166329 | 66.54 | ug/L | # | 87 |
| 7) dichlorodifluoromethane | 1.661 | 85 | 186300 | 51.05 | ug/L | | 98 |
| 8) chloromethane | 1.821 | 50 | 117488 | 48.16 | ug/L | | 96 |
| 9) vinyl chloride | 1.901 | 62 | 134158 | 44.59 | ug/L | | 97 |
| 10) 1,3-butadiene | 1.930 | 54 | 150983 | 51.05 | ug/L | | 98 |
| 11) bromomethane | 2.161 | 96 | 54463 | 43.47 | ug/L | | 92 |
| 12) chloroethane | 2.238 | 64 | 75372 | 42.84 | ug/L | | 97 |
| 13) trichlorofluoromethane | 2.421 | 101 | 213848 | 50.82 | ug/L | | 99 |
| 14) ethyl ether | 2.601 | 74 | 85309 | 58.03 | ug/L | | 83 |
| 15) acrolein | 2.704 | 56 | 36921 | 69.16 | ug/L | | 87 |
| 16) freon 113 | 2.777 | 151 | 98420 | 59.41 | ug/L | | 92 |
| 17) 1,1-dichloroethene | 2.784 | 96 | 115703 | 56.07 | ug/L | | 94 |
| 18) acetone | 2.793 | 58 | 95752 | 264.11 | ug/L | | 86 |
| 19) acetonitrile | 2.986 | 40 | 106367 | 452.81 | ug/L | | 99 |
| 20) iodomethane | 2.899 | 142 | 89906 | 47.66 | ug/L | | 95 |
| 21) iso-butyl alcohol | 4.452 | 43 | 76387 | 323.27 | ug/L | | 96 |
| 22) carbon disulfide | 2.960 | 76 | 335096 | 52.77 | ug/L | | 95 |
| 23) methylene chloride | 3.114 | 84 | 130347 | 54.25 | ug/L | | 96 |
| 24) methyl acetate | 2.999 | 74 | 37668 | 51.77 | ug/L | | 96 |
| 25) methyl tert butyl ether | 3.281 | 73 | 393368 | 50.35 | ug/L | | 93 |
| 26) trans-1,2-dichloroethene | 3.300 | 96 | 121229 | 54.29 | ug/L | | 92 |
| 27) hexane | 3.474 | 57 | 184001 | 58.60 | ug/L | | 93 |
| 28) di-isopropyl ether | 3.586 | 45 | 366735 | 57.84 | ug/L | | 96 |
| 29) ethyl tert-butyl ether | 3.833 | 59 | 410138 | 55.20 | ug/L | | 95 |
| 30) 2-butanone | 3.955 | 72 | 115049 | 206.58 | ug/L | | 91 |
| 31) 1,1-dichloroethane | 3.596 | 63 | 212766 | 54.27 | ug/L | | 94 |
| 32) chloroprene | 3.644 | 53 | 175634 | 55.08 | ug/L | | 92 |
| 33) acrylonitrile | 3.259 | 53 | 74447 | 57.73 | ug/L | | 97 |
| 34) vinyl acetate | 3.570 | 86 | 35160 | 51.99 | ug/L | # | 82 |
| 35) ethyl acetate | 3.965 | 45 | 28682 | 50.72 | ug/L | # | 62 |
| 36) 2,2-dichloropropane | 3.994 | 77 | 168686 | 44.23 | ug/L | | 98 |
| 37) cis-1,2-dichloroethene | 3.981 | 96 | 128866 | 51.02 | ug/L | | 96 |
| 38) propionitrile | 4.000 | 54 | 260238 | 488.92 | ug/L | | 97 |
| 39) methyl acrylate | 4.006 | 85 | 29381 | 44.78 | ug/L | # | 57 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\vl10519-due today\
Data File : l347832.d
Acq On : 4 Oct 2022 11:42 am
Operator : nicoleh
Sample : bsd Inst : GCMSL
Misc : MS62669,VL10519,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 01:46:40 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 40) bromochloromethane | 4.151 | 128 | 59510 | 54.08 | ug/L | | 91 |
| 41) tetrahydrofuran | 4.160 | 72 | 31305 | 50.30 | ug/L | | 98 |
| 42) chloroform | 4.205 | 83 | 218323 | 48.62 | ug/L | | 97 |
| 44) methacrylonitrile | 4.112 | 67 | 82072 | 52.56 | ug/L | | 98 |
| 45) 1,1,1-trichloroethane | 4.346 | 97 | 189989 | 49.37 | ug/L | | 95 |
| 46) cyclohexane | 4.401 | 84 | 169083 | 47.74 | ug/L | | 89 |
| 47) 1,1-dichloropropene | 4.452 | 75 | 153431 | 49.91 | ug/L | | 93 |
| 48) carbon tetrachloride | 4.456 | 117 | 153537 | 48.13 | ug/L | | 92 |
| 49) isopropyl acetate | 4.568 | 87 | 39834 | 49.91 | ug/L | # | 67 |
| 50) tert amyl alcohol | 4.542 | 55 | 49900 | 197.35 | ug/L | # | 79 |
| 53) tert-amyl methyl ether | 4.661 | 73 | 363824 | 48.00 | ug/L | | 96 |
| 54) 2,2,4-trimethylpentane | 4.661 | 57 | 320169 | 53.15 | ug/L | | 98 |
| 55) n-butyl alcohol | 4.931 | 56 | 243834 | 1444.75 | ug/L | | 97 |
| 56) benzene | 4.600 | 78 | 460842 | 52.00 | ug/L | | 97 |
| 57) heptane | 4.773 | 57 | 69542 | 50.04 | ug/L | | 82 |
| 58) 1,2-dichloroethane | 4.622 | 62 | 157104 | 46.97 | ug/L | | 99 |
| 59) trichloroethene | 5.069 | 95 | 130996 | 52.26 | ug/L | | 98 |
| 60) ethyl acrylate | 5.085 | 55 | 232047 | 55.86 | ug/L | | 96 |
| 61) 2-nitropropane | 5.617 | 41 | 60148 | 49.48 | ug/L | | 91 |
| 62) 2-chloroethyl vinyl ether | 5.649 | 63 | 435747 | 300.30 | ug/L | | 97 |
| 63) methyl methacrylate | 5.264 | 100 | 50517 | 52.21 | ug/L | | 96 |
| 64) 1,2-dichloropropane | 5.267 | 63 | 120998 | 55.34 | ug/L | | 86 |
| 65) methylcyclohexane | 5.258 | 83 | 203230 | 51.49 | ug/L | | 92 |
| 66) dibromomethane | 5.338 | 93 | 81836 | 50.78 | ug/L | | 98 |
| 67) bromodichloromethane | 5.457 | 83 | 173533 | 47.25 | ug/L | | 94 |
| 68) cis-1,3-dichloropropene | 5.797 | 75 | 199729 | 48.48 | ug/L | | 97 |
| 69) epichlorohydrin | 5.704 | 57 | 104832 | 220.77 | ug/L | | 97 |
| 70) 4-methyl-2-pentanone | 5.890 | 58 | 310511 | 204.23 | ug/L | | 92 |
| 71) 3-methyl-1-butanol | 5.916 | 70 | 108917 | 585.21 | ug/L | # | 85 |
| 74) toluene | 6.076 | 92 | 311973 | 49.98 | ug/L | | 99 |
| 75) trans-1,3-dichloropropene | 6.249 | 75 | 178549 | 41.32 | ug/L | | 94 |
| 76) ethyl methacrylate | 6.269 | 69 | 205147 | 47.16 | ug/L | | 95 |
| 77) 1,1,2-trichloroethane | 6.419 | 83 | 112335 | 51.66 | ug/L | | 95 |
| 78) 2-hexanone | 6.580 | 58 | 327556 | 189.41 | ug/L | | 94 |
| 79) tetrachloroethene | 6.516 | 166 | 128275 | 51.30 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 6.564 | 76 | 199647 | 47.23 | ug/L | | 99 |
| 81) butyl acetate | 6.667 | 56 | 119459 | 52.96 | ug/L | | 95 |
| 82) dibromochloromethane | 6.756 | 129 | 127915 | 44.01 | ug/L | | 98 |
| 83) 1,2-dibromoethane | 6.872 | 107 | 136637 | 46.91 | ug/L | | 97 |
| 84) n-butyl ether | 7.340 | 57 | 499077 | 53.56 | ug/L | | 95 |
| 85) chlorobenzene | 7.299 | 112 | 320923 | 50.31 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 7.366 | 131 | 109243 | 47.30 | ug/L | | 96 |
| 87) ethylbenzene | 7.372 | 91 | 526449 | 48.04 | ug/L | | 99 |
| 88) m,p-xylene | 7.488 | 106 | 405550 | 92.32 | ug/L | | 97 |
| 89) o-xylene | 7.844 | 106 | 211613 | 48.16 | ug/L | | 99 |
| 90) butyl acrylate | 7.761 | 55 | 303005 | 53.87 | ug/L | | 98 |
| 91) styrene | 7.860 | 104 | 341606 | 47.94 | ug/L | | 98 |
| 92) bromoform | 8.040 | 173 | 85361 | 41.74 | ug/L | | 99 |
| 93) isopropylbenzene | 8.181 | 105 | 541731 | 49.11 | ug/L | | 95 |
| 94) cis-1,4-dichloro-2-butene | 8.232 | 88 | 28255 | 34.45 | ug/L | | 97 |
| 97) bromobenzene | 8.496 | 156 | 131509 | 51.13 | ug/L | | 90 |
| 98) 1,1,2,2-tetrachloroethane | 8.464 | 83 | 193456 | 45.60 | ug/L | | 98 |
| 99) trans-1,4-dichloro-2-b... | 8.505 | 53 | 22509 | 37.33 | ug/L | # | 75 |
| 100) 1,2,3-trichloropropane | 8.524 | 110 | 55180 | 45.16 | ug/L | | 88 |
| 101) n-propylbenzene | 8.576 | 91 | 597289 | 49.20 | ug/L | | 100 |
| 102) 2-chlorotoluene | 8.672 | 126 | 123294 | 51.60 | ug/L | | 88 |
| 103) 4-chlorotoluene | 8.788 | 126 | 119250 | 49.79 | ug/L | | 94 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\vl10519-due today\
Data File : l347832.d
Acq On : 4 Oct 2022 11:42 am
Operator : nicoleh
Sample : bsd Inst : GCMSL
Misc : MS62669,VL10519,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 01:46:40 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

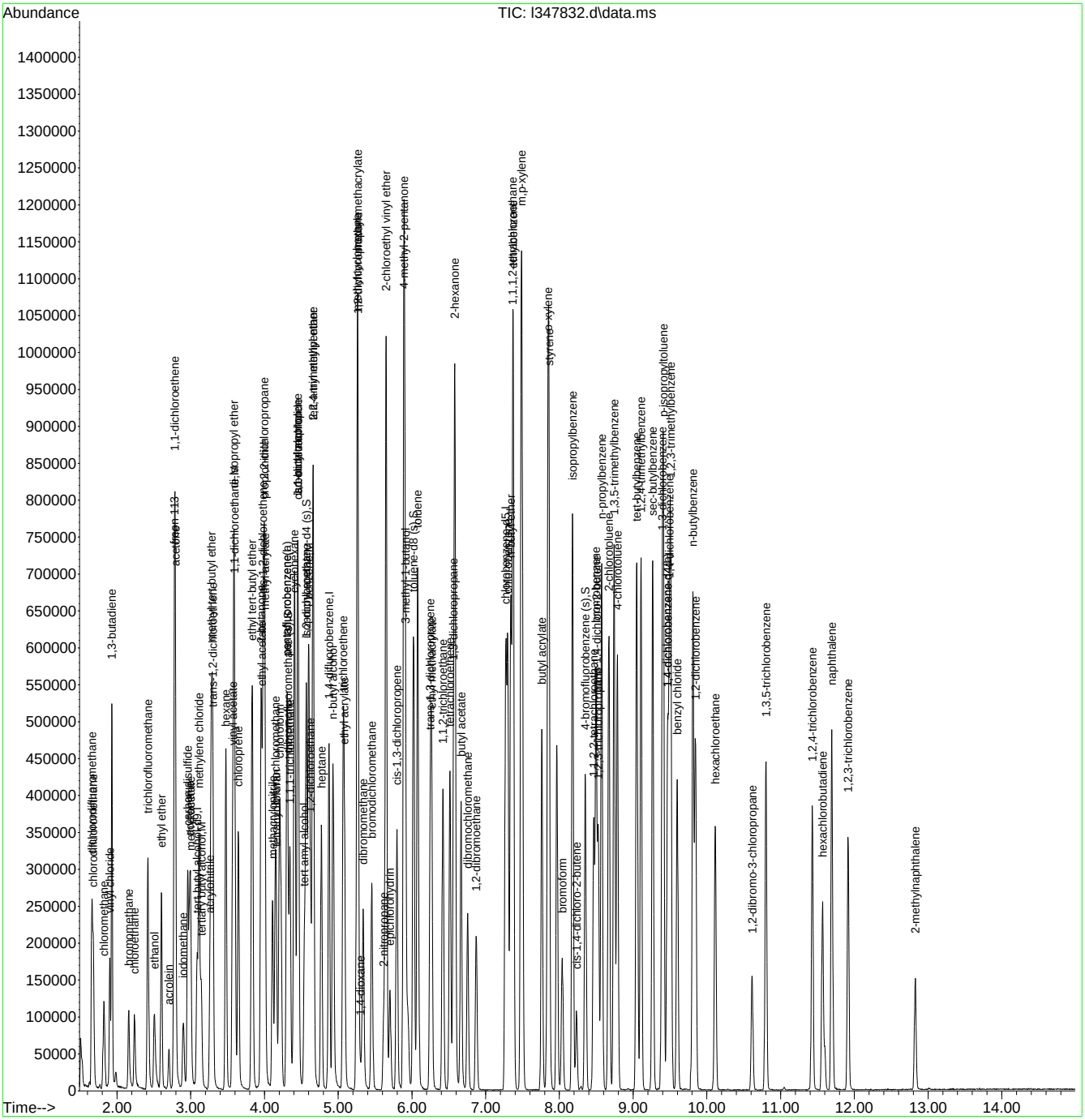
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) 1,3,5-trimethylbenzene | 8.746 | 105 | 421389 | 48.41 | ug/L | 99 |
| 105) tert-butylbenzene | 9.048 | 119 | 371519 | 50.92 | ug/L | 98 |
| 106) 1,2,4-trimethylbenzene | 9.109 | 105 | 421456 | 47.31 | ug/L | 98 |
| 107) sec-butylbenzene | 9.266 | 105 | 520440 | 49.90 | ug/L | 99 |
| 108) 1,3-dichlorobenzene | 9.394 | 146 | 225970 | 52.02 | ug/L | 99 |
| 109) p-isopropyltoluene | 9.410 | 119 | 412512 | 50.16 | ug/L | 98 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 212184 | 49.81 | ug/L | 96 |
| 111) 1,2,3-trimethylbenzene | 9.510 | 105 | 401518 | 47.49 | ug/L | 98 |
| 112) 1,2-dichlorobenzene | 9.847 | 146 | 206091 | 48.22 | ug/L | 98 |
| 113) n-butylbenzene | 9.811 | 92 | 219185 | 53.25 | ug/L | 100 |
| 114) 1,2-dibromo-3-chloropr... | 10.617 | 157 | 49518 | 49.40 | ug/L | 85 |
| 115) 1,3,5-trichlorobenzene | 10.803 | 180 | 149650 | 54.27 | ug/L | 95 |
| 116) 1,2,4-trichlorobenzene | 11.429 | 180 | 126129 | 56.49 | ug/L | 96 |
| 117) hexachlorobutadiene | 11.570 | 225 | 48533 | 54.28 | ug/L | 98 |
| 118) naphthalene | 11.695 | 128 | 400725 | 53.14 | ug/L | 99 |
| 119) 1,2,3-trichlorobenzene | 11.913 | 180 | 112605 | 55.70 | ug/L | 94 |
| 120) hexachloroethane | 10.116 | 119 | 82101 | 48.14 | ug/L | 95 |
| 121) benzyl chloride | 9.599 | 91 | 325131 | 44.17 | ug/L | 97 |
| 122) 2-methylnaphthalene | 12.828 | 142 | 78927 | 29.23 | ug/L | 88 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\vl10519-due today\
Data File : l347832.d
Acq On : 4 Oct 2022 11:42 am
Operator : nicoleh
Sample : bsd Inst : GCMSL
Misc : MS62669,VL10519,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 01:46:40 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226444.d
Acq On : 27 Sep 2022 4:24 pm
Operator : nickw
Sample : jd52310-3ms Inst : MSDTEST1A
Misc : MS62427, V1A9698,5,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 17:40:46 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.918 | 65 | 284980 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.932 | 168 | 569489 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 838923 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 750403 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.841 | 152 | 310518 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 247458 | 49.31 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.62% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 275620 | 47.44 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 94.88% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 944298 | 46.78 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.56% | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 309551 | 48.05 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.10% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.747 | 88 | 51644 | 1236.16 | ug/L | 97 |
| 3) ethanol | 2.414 | 45 | 173776 | 4915.56 | ug/L | 97 |
| 4) tertiary butyl alcohol | 2.966 | 59 | 168384 | 257.76 | ug/L | 96 |
| 6) chlorodifluoromethane | 1.644 | 51 | 199334 | 41.45 | ug/L | 97 |
| 7) dichlorodifluoromethane | 1.631 | 85 | 281152 | 39.87 | ug/L | 99 |
| 8) chloromethane | 1.779 | 50 | 221562 | 44.31 | ug/L | 98 |
| 9) vinyl chloride | 1.862 | 62 | 270875 | 38.87 | ug/L | 100 |
| 10) 1,3-butadiene | 1.891 | 54 | 269258 | 43.76 | ug/L | 98 |
| 11) bromomethane | 2.097 | 96 | 56902 | 27.62 | ug/L | 99 |
| 12) chloroethane | 2.170 | 64 | 185715 | 40.25 | ug/L | 98 |
| 13) trichlorofluoromethane | 2.337 | 101 | 386294 | 45.54 | ug/L | 99 |
| 14) ethyl ether | 2.498 | 74 | 126017 | 46.75 | ug/L | 95 |
| 15) acrolein | 2.588 | 56 | 44317 | 49.87 | ug/L | 92 |
| 16) freon 113 | 2.655 | 151 | 172058 | 48.27 | ug/L | 98 |
| 17) 1,1-dichloroethene | 2.661 | 96 | 179488 | 45.28 | ug/L | 96 |
| 18) acetone | 2.668 | 58 | 131862 | 263.40 | ug/L | 92 |
| 19) acetonitrile | 2.835 | 40 | 154590 | 452.22 | ug/L | 95 |
| 20) iodomethane | 2.764 | 142 | 76794 | 36.34 | ug/L | 97 |
| 21) iso-butyl alcohol | 2.844 | 43 | 203004 | 457.37 | ug/L | 98 |
| 22) carbon disulfide | 2.819 | 76 | 499289 | 42.16 | ug/L | 99 |
| 23) methylene chloride | 2.944 | 84 | 202405 | 43.52 | ug/L | 93 |
| 24) methyl acetate | 2.844 | 74 | 51391 | 46.55 | ug/L | 97 |
| 25) methyl tert butyl ether | 3.088 | 73 | 647145 | 46.61 | ug/L | 99 |
| 26) trans-1,2-dichloroethene | 3.104 | 96 | 202636 | 47.85 | ug/L | 98 |
| 27) hexane | 3.255 | 57 | 267283 | 48.03 | ug/L | 97 |
| 28) di-isopropyl ether | 3.345 | 45 | 597924 | 46.35 | ug/L | 98 |
| 29) ethyl tert-butyl ether | 3.550 | 59 | 626198 | 46.88 | ug/L | 97 |
| 30) 2-butanone | 3.650 | 72 | 148596 | 189.51 | ug/L | 97 |
| 31) 1,1-dichloroethane | 3.355 | 63 | 351180 | 45.34 | ug/L | 99 |
| 32) chloroprene | 3.399 | 53 | 254797 | 41.57 | ug/L | 98 |
| 33) acrylonitrile | 3.069 | 53 | 96910 | 46.16 | ug/L | 97 |
| 34) vinyl acetate | 3.326 | 86 | 53955 | 50.07 | ug/L | 99 |
| 35) ethyl acetate | 3.653 | 45 | 40706 | 44.06 | ug/L | 91 |
| 36) 2,2-dichloropropane | 3.688 | 77 | 322025 | 59.58 | ug/L | 99 |
| 37) cis-1,2-dichloroethene | 3.679 | 96 | 236639 | 49.78 | ug/L | 97 |
| 38) propionitrile | 3.688 | 54 | 380659 | 461.72 | ug/L | 94 |
| 39) methyl acrylate | 3.695 | 85 | 50971 | 48.42 | ug/L | 95 |
| 40) bromochloromethane | 3.817 | 128 | 119493 | 49.43 | ug/L | 94 |
| 41) tetrahydrofuran | 3.829 | 72 | 42833 | 43.23 | ug/L | 86 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226444.d
Acq On : 27 Sep 2022 4:24 pm
Operator : nickw
Sample : jd52310-3ms Inst : MSDTEST1A
Misc : MS62427, V1A9698,5,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 17:40:46 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) chloroform | 3.858 | 83 | 385800 | 44.75 | ug/L | | 97 |
| 44) methacrylonitrile | 3.781 | 67 | 118793 | 46.64 | ug/L | | 97 |
| 45) 1,1,1-trichloroethane | 3.977 | 97 | 344177 | 48.41 | ug/L | | 98 |
| 46) cyclohexane | 4.028 | 84 | 272047 | 40.48 | ug/L | # | 84 |
| 47) 1,1-dichloropropene | 4.064 | 75 | 279184 | 45.12 | ug/L | | 98 |
| 48) carbon tetrachloride | 4.070 | 117 | 302469 | 49.56 | ug/L | | 97 |
| 49) isopropyl acetate | 4.147 | 87 | 64549 | 48.99 | ug/L | | 97 |
| 50) tert amyl alcohol | 4.131 | 55 | 53895 | 214.33 | ug/L | | 91 |
| 53) tert-amyl methyl ether | 4.227 | 73 | 652076 | 47.28 | ug/L | | 99 |
| 54) 2,2,4-trimethylpentane | 4.234 | 57 | 543098 | 49.37 | ug/L | | 96 |
| 55) n-butyl alcohol | 4.433 | 56 | 323030 | 2266.20 | ug/L | | 98 |
| 56) benzene | 4.186 | 78 | 813276 | 46.93 | ug/L | | 99 |
| 57) heptane | 4.317 | 57 | 112722 | 52.76 | ug/L | | 97 |
| 58) 1,2-dichloroethane | 4.202 | 62 | 292606 | 46.25 | ug/L | | 99 |
| 59) trichloroethene | 4.558 | 95 | 236504 | 51.25 | ug/L | | 97 |
| 60) ethyl acrylate | 4.561 | 55 | 339869 | 49.28 | ug/L | | 95 |
| 61) 2-nitropropane | 4.991 | 41 | 84738 | 42.88 | ug/L | | 93 |
| 62) 2-chloroethyl vinyl ether | 5.010 | 63 | 44657 | 43.20 | ug/L | | 95 |
| 63) methyl methacrylate | 4.706 | 100 | 80868 | 51.01 | ug/L | | 90 |
| 64) 1,2-dichloropropane | 4.718 | 63 | 201878 | 45.45 | ug/L | | 98 |
| 65) methylcyclohexane | 4.715 | 83 | 346093 | 48.85 | ug/L | | 97 |
| 66) dibromomethane | 4.776 | 93 | 149381 | 46.61 | ug/L | | 93 |
| 67) bromodichloromethane | 4.866 | 83 | 308324 | 47.12 | ug/L | | 97 |
| 68) cis-1,3-dichloropropene | 5.132 | 75 | 354749 | 49.31 | ug/L | | 99 |
| 69) epichlorohydrin | 5.055 | 57 | 85637 | 262.69 | ug/L | | 91 |
| 70) 4-methyl-2-pentanone | 5.203 | 58 | 437369 | 188.98 | ug/L | | 98 |
| 71) 3-methyl-1-butanol | 5.209 | 70 | 144183 | 896.35 | ug/L | | 97 |
| 74) toluene | 5.357 | 92 | 518444 | 47.18 | ug/L | | 97 |
| 75) trans-1,3-dichloropropene | 5.485 | 75 | 335228 | 52.96 | ug/L | | 97 |
| 76) ethyl methacrylate | 5.488 | 69 | 323043 | 49.34 | ug/L | | 96 |
| 77) 1,1,2-trichloroethane | 5.620 | 83 | 179525 | 46.89 | ug/L | | 98 |
| 78) 2-hexanone | 5.739 | 58 | 426702 | 183.21 | ug/L | | 97 |
| 79) tetrachloroethene | 5.703 | 166 | 710333 | 152.64 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 5.736 | 76 | 327565 | 44.34 | ug/L | | 98 |
| 81) butyl acetate | 5.797 | 56 | 157805 | 48.38 | ug/L | | 99 |
| 82) dibromochloromethane | 5.886 | 129 | 243687 | 46.59 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 5.983 | 107 | 234589 | 47.73 | ug/L | | 98 |
| 84) n-butyl ether | 6.320 | 57 | 771672 | 48.05 | ug/L | | 98 |
| 85) chlorobenzene | 6.313 | 112 | 576722 | 46.44 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 6.361 | 131 | 206393 | 48.39 | ug/L | | 97 |
| 87) ethylbenzene | 6.361 | 91 | 952374 | 45.92 | ug/L | | 98 |
| 88) m,p-xylene | 6.448 | 106 | 733506 | 95.07 | ug/L | | 99 |
| 89) o-xylene | 6.718 | 106 | 370274 | 48.17 | ug/L | | 98 |
| 90) butyl acrylate | 6.637 | 55 | 445107 | 52.76 | ug/L | | 98 |
| 91) n-amyl acetate | 6.782 | 70 | 174977 | 52.53 | ug/L | | 97 |
| 92) styrene | 6.727 | 104 | 577657 | 46.01 | ug/L | | 99 |
| 93) bromoform | 6.865 | 173 | 168680 | 48.47 | ug/L | | 96 |
| 94) isopropylbenzene | 6.958 | 105 | 951875 | 48.88 | ug/L | | 100 |
| 95) cis-1,4-dichloro-2-butene | 6.990 | 88 | 68592 | 40.70 | ug/L | | 96 |
| 98) bromobenzene | 7.192 | 156 | 241306 | 48.71 | ug/L | | 95 |
| 99) 1,1,2,2-tetrachloroethane | 7.154 | 83 | 296248 | 45.47 | ug/L | | 95 |
| 100) trans-1,4-dichloro-2-b... | 7.176 | 53 | 55947 | 43.40 | ug/L | | 94 |
| 101) 1,2,3-trichloropropane | 7.202 | 110 | 92052 | 46.36 | ug/L | | 97 |
| 102) n-propylbenzene | 7.234 | 91 | 1036419 | 47.43 | ug/L | | 99 |
| 103) 2-chlorotoluene | 7.311 | 126 | 221529 | 48.62 | ug/L | | 88 |
| 104) 4-chlorotoluene | 7.388 | 126 | 225323 | 48.67 | ug/L | | 98 |
| 105) 1,3,5-trimethylbenzene | 7.346 | 105 | 625945 | 42.33 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226444.d
Acq On : 27 Sep 2022 4:24 pm
Operator : nickw
Sample : jd52310-3ms Inst : MSDTEST1A
Misc : MS62427, V1A9698,5,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 17:40:46 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

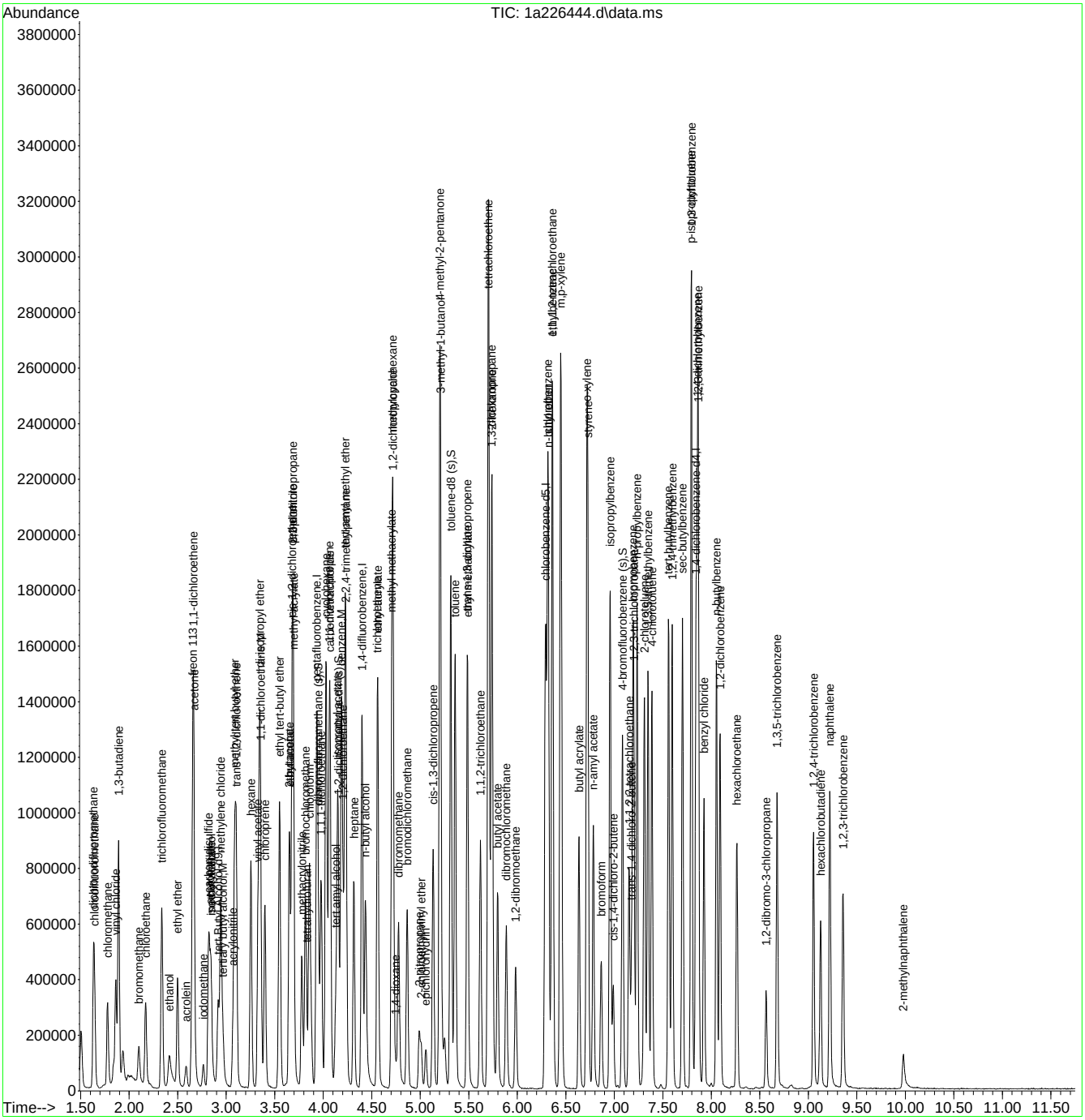
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) tert-butylbenzene | 7.558 | 119 | 645181 | 50.02 | ug/L | 97 |
| 107) 1,2,4-trimethylbenzene | 7.597 | 105 | 681921 | 45.78 | ug/L | 98 |
| 108) sec-butylbenzene | 7.703 | 105 | 898282 | 50.05 | ug/L | 100 |
| 109) 1,3-dichlorobenzene | 7.796 | 146 | 415543 | 51.03 | ug/L | 98 |
| 110) p-isopropyltoluene | 7.792 | 119 | 736575 | 50.59 | ug/L | 100 |
| 111) 1,2,3-trimethylbenzene | 7.866 | 105 | 663551 | 43.99 | ug/L | 97 |
| 112) 1,4-dichlorobenzene | 7.857 | 146 | 416972 | 48.14 | ug/L | 98 |
| 113) 1,2-dichlorobenzene | 8.091 | 146 | 390254 | 50.11 | ug/L | 98 |
| 114) n-butylbenzene | 8.052 | 92 | 339374 | 53.39 | ug/L | 100 |
| 115) 1,2-dibromo-3-chloropr... | 8.566 | 157 | 73833 | 51.21 | ug/L | 97 |
| 116) 1,3,5-trichlorobenzene | 8.678 | 180 | 250449 | 53.62 | ug/L | 98 |
| 117) 1,2,4-trichlorobenzene | 9.054 | 180 | 206779 | 53.81 | ug/L | 97 |
| 118) hexachlorobutadiene | 9.127 | 225 | 74486 | 52.46 | ug/L | 98 |
| 119) naphthalene | 9.220 | 128 | 689643 | 51.09 | ug/L | 99 |
| 120) 1,2,3-trichlorobenzene | 9.358 | 180 | 175091 | 52.69 | ug/L | 98 |
| 121) hexachloroethane | 8.261 | 119 | 126080 | 55.06 | ug/L | 97 |
| 122) benzyl chloride | 7.924 | 91 | 538171 | 73.27 | ug/L | 98 |
| 123) 2-methylnaphthalene | 9.978 | 142 | 75709 | 25.08 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226444.d
Acq On : 27 Sep 2022 4:24 pm
Operator : nickw
Sample : jd52310-3ms Inst : MSDTEST1A
Misc : MS62427, V1A9698,5,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 17:40:46 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226445.d
Acq On : 27 Sep 2022 4:48 pm
Operator : nickw
Sample : jd52310-3msd Inst : MSDTEST1A
Misc : MS62427, V1A9698,5,,,,5
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 17:40:56 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.918 | 65 | 285954 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.935 | 168 | 543729 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 806911 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 721884 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.841 | 152 | 301796 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 236542 | 49.37 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.74% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 260163 | 46.56 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 93.12% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 922306 | 47.50 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.00% | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 298612 | 47.69 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.38% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.747 | 88 | 54831 | 1307.97 | ug/L | 98 |
| 3) ethanol | 2.418 | 45 | 172999 | 4876.91 | ug/L | 96 |
| 4) tertiary butyl alcohol | 2.966 | 59 | 170374 | 259.92 | ug/L | 95 |
| 6) chlorodifluoromethane | 1.644 | 51 | 188580 | 41.07 | ug/L | 97 |
| 7) dichlorodifluoromethane | 1.635 | 85 | 268872 | 39.94 | ug/L | 98 |
| 8) chloromethane | 1.776 | 50 | 207279 | 43.42 | ug/L | 96 |
| 9) vinyl chloride | 1.862 | 62 | 262187 | 39.41 | ug/L | 97 |
| 10) 1,3-butadiene | 1.891 | 54 | 266319 | 45.33 | ug/L | 96 |
| 11) bromomethane | 2.100 | 96 | 76790 | 36.80 | ug/L | 97 |
| 12) chloroethane | 2.171 | 64 | 175772 | 39.90 | ug/L | 99 |
| 13) trichlorofluoromethane | 2.337 | 101 | 373799 | 46.15 | ug/L | 98 |
| 14) ethyl ether | 2.498 | 74 | 121396 | 47.17 | ug/L | 98 |
| 15) acrolein | 2.591 | 56 | 42591 | 50.20 | ug/L | 95 |
| 16) freon 113 | 2.655 | 151 | 166812 | 49.01 | ug/L | 96 |
| 17) 1,1-dichloroethene | 2.661 | 96 | 177375 | 46.87 | ug/L | 99 |
| 18) acetone | 2.668 | 58 | 133316 | 278.92 | ug/L | 97 |
| 19) acetonitrile | 2.838 | 40 | 153846 | 471.36 | ug/L | 96 |
| 20) iodomethane | 2.764 | 142 | 101779 | 50.45 | ug/L | 99 |
| 21) iso-butyl alcohol | 2.844 | 43 | 202244 | 477.25 | ug/L | 98 |
| 22) carbon disulfide | 2.819 | 76 | 482186 | 42.65 | ug/L | 100 |
| 23) methylene chloride | 2.944 | 84 | 202466 | 45.59 | ug/L | 99 |
| 24) methyl acetate | 2.844 | 74 | 50380 | 47.79 | ug/L | 95 |
| 25) methyl tert butyl ether | 3.088 | 73 | 631144 | 47.61 | ug/L | 99 |
| 26) trans-1,2-dichloroethene | 3.104 | 96 | 197107 | 48.75 | ug/L | 97 |
| 27) hexane | 3.255 | 57 | 261408 | 49.20 | ug/L | 99 |
| 28) di-isopropyl ether | 3.345 | 45 | 587026 | 47.67 | ug/L | 99 |
| 29) ethyl tert-butyl ether | 3.547 | 59 | 623374 | 48.88 | ug/L | 97 |
| 30) 2-butanone | 3.650 | 72 | 151500 | 202.37 | ug/L | 93 |
| 31) 1,1-dichloroethane | 3.355 | 63 | 354109 | 47.89 | ug/L | 98 |
| 32) chloroprene | 3.400 | 53 | 268015 | 45.80 | ug/L | 100 |
| 33) acrylonitrile | 3.069 | 53 | 99451 | 49.61 | ug/L | 94 |
| 34) vinyl acetate | 3.326 | 86 | 52765 | 51.29 | ug/L # | 74 |
| 35) ethyl acetate | 3.653 | 45 | 42676 | 48.39 | ug/L | 89 |
| 36) 2,2-dichloropropane | 3.688 | 77 | 320750 | 62.16 | ug/L | 97 |
| 37) cis-1,2-dichloroethene | 3.676 | 96 | 230470 | 50.78 | ug/L | 96 |
| 38) propionitrile | 3.692 | 54 | 389464 | 494.78 | ug/L | 85 |
| 39) methyl acrylate | 3.692 | 85 | 51507 | 51.25 | ug/L | 96 |
| 40) bromochloromethane | 3.817 | 128 | 115240 | 49.93 | ug/L | 93 |
| 41) tetrahydrofuran | 3.826 | 72 | 44557 | 47.10 | ug/L | 90 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226445.d
Acq On : 27 Sep 2022 4:48 pm
Operator : nickw
Sample : jd52310-3msd Inst : MSDTEST1A
Misc : MS62427, V1A9698,5,,,,5
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 17:40:56 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 42) chloroform | 3.855 | 83 | 382599 | 46.48 | ug/L | 99 |
| 44) methacrylonitrile | 3.781 | 67 | 119675 | 49.21 | ug/L | 97 |
| 45) 1,1,1-trichloroethane | 3.980 | 97 | 343829 | 50.66 | ug/L | 99 |
| 46) cyclohexane | 4.028 | 84 | 268180 | 41.79 | ug/L | 88 |
| 47) 1,1-dichloropropene | 4.064 | 75 | 290639 | 49.19 | ug/L | 98 |
| 48) carbon tetrachloride | 4.070 | 117 | 307414 | 52.75 | ug/L | 98 |
| 49) isopropyl acetate | 4.147 | 87 | 64435 | 51.22 | ug/L | 95 |
| 50) tert amyl alcohol | 4.128 | 55 | 58445 | 243.43 | ug/L # | 90 |
| 53) tert-amyl methyl ether | 4.227 | 73 | 655640 | 49.43 | ug/L | 98 |
| 54) 2,2,4-trimethylpentane | 4.231 | 57 | 536429 | 50.70 | ug/L | 99 |
| 55) n-butyl alcohol | 4.436 | 56 | 349014 | 2535.18 | ug/L | 98 |
| 56) benzene | 4.186 | 78 | 809011 | 48.53 | ug/L | 99 |
| 57) heptane | 4.317 | 57 | 113220 | 55.09 | ug/L | 92 |
| 58) 1,2-dichloroethane | 4.202 | 62 | 289964 | 47.65 | ug/L | 100 |
| 59) trichloroethene | 4.561 | 95 | 236322 | 53.24 | ug/L | 98 |
| 60) ethyl acrylate | 4.561 | 55 | 344872 | 51.99 | ug/L | 95 |
| 61) 2-nitropropane | 4.988 | 41 | 85347 | 44.90 | ug/L | 93 |
| 62) 2-chloroethyl vinyl ether | 5.010 | 63 | 40947 | 41.19 | ug/L | 96 |
| 63) methyl methacrylate | 4.706 | 100 | 83845 | 54.98 | ug/L | 98 |
| 64) 1,2-dichloropropane | 4.718 | 63 | 203121 | 47.55 | ug/L | 98 |
| 65) methylcyclohexane | 4.715 | 83 | 347610 | 51.01 | ug/L | 98 |
| 66) dibromomethane | 4.776 | 93 | 150287 | 48.75 | ug/L | 97 |
| 67) bromodichloromethane | 4.866 | 83 | 309532 | 49.18 | ug/L | 99 |
| 68) cis-1,3-dichloropropene | 5.132 | 75 | 361669 | 52.26 | ug/L | 98 |
| 69) epichlorohydrin | 5.059 | 57 | 85834 | 273.74 | ug/L | 88 |
| 70) 4-methyl-2-pentanone | 5.203 | 58 | 449028 | 201.72 | ug/L | 99 |
| 71) 3-methyl-1-butanol | 5.209 | 70 | 155702 | 1002.87 | ug/L | 97 |
| 74) toluene | 5.357 | 92 | 534275 | 50.54 | ug/L | 95 |
| 75) trans-1,3-dichloropropene | 5.482 | 75 | 337140 | 55.37 | ug/L | 93 |
| 76) ethyl methacrylate | 5.489 | 69 | 335517 | 53.27 | ug/L | 97 |
| 77) 1,1,2-trichloroethane | 5.620 | 83 | 180150 | 48.91 | ug/L | 96 |
| 78) 2-hexanone | 5.739 | 58 | 433550 | 193.51 | ug/L | 98 |
| 79) tetrachloroethene | 5.704 | 166 | 714578 | 159.62 | ug/L | 99 |
| 80) 1,3-dichloropropane | 5.736 | 76 | 332098 | 46.73 | ug/L | 98 |
| 81) butyl acetate | 5.797 | 56 | 162825 | 51.89 | ug/L | 97 |
| 82) dibromochloromethane | 5.886 | 129 | 246800 | 49.05 | ug/L | 98 |
| 83) 1,2-dibromoethane | 5.986 | 107 | 234608 | 49.62 | ug/L | 99 |
| 84) n-butyl ether | 6.320 | 57 | 783967 | 50.74 | ug/L | 97 |
| 85) chlorobenzene | 6.313 | 112 | 584202 | 48.90 | ug/L | 96 |
| 86) 1,1,1,2-tetrachloroethane | 6.361 | 131 | 207578 | 50.59 | ug/L | 97 |
| 87) ethylbenzene | 6.361 | 91 | 966069 | 48.42 | ug/L | 99 |
| 88) m,p-xylene | 6.448 | 106 | 763365 | 102.84 | ug/L | 99 |
| 89) o-xylene | 6.718 | 106 | 384008 | 51.93 | ug/L | 97 |
| 90) butyl acrylate | 6.637 | 55 | 449959 | 55.44 | ug/L | 97 |
| 91) n-amyl acetate | 6.785 | 70 | 178744 | 55.78 | ug/L | 96 |
| 92) styrene | 6.727 | 104 | 647004 | 53.57 | ug/L | 99 |
| 93) bromoform | 6.865 | 173 | 175232 | 52.34 | ug/L | 99 |
| 94) isopropylbenzene | 6.955 | 105 | 981110 | 52.37 | ug/L | 99 |
| 95) cis-1,4-dichloro-2-butene | 6.987 | 88 | 74901 | 46.20 | ug/L | 93 |
| 98) bromobenzene | 7.192 | 156 | 244176 | 50.71 | ug/L | 97 |
| 99) 1,1,2,2-tetrachloroethane | 7.151 | 83 | 301440 | 47.60 | ug/L | 98 |
| 100) trans-1,4-dichloro-2-b... | 7.176 | 53 | 59665 | 47.62 | ug/L | 90 |
| 101) 1,2,3-trichloropropane | 7.202 | 110 | 94060 | 48.74 | ug/L | 100 |
| 102) n-propylbenzene | 7.234 | 91 | 1062021 | 50.01 | ug/L | 99 |
| 103) 2-chlorotoluene | 7.311 | 126 | 226367 | 51.11 | ug/L | 94 |
| 104) 4-chlorotoluene | 7.388 | 126 | 228022 | 50.68 | ug/L | 98 |
| 105) 1,3,5-trimethylbenzene | 7.346 | 105 | 710865 | 49.46 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226445.d
Acq On : 27 Sep 2022 4:48 pm
Operator : nickw
Sample : jd52310-3msd Inst : MSDTEST1A
Misc : MS62427, V1A9698,5,,,,5
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 17:40:56 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

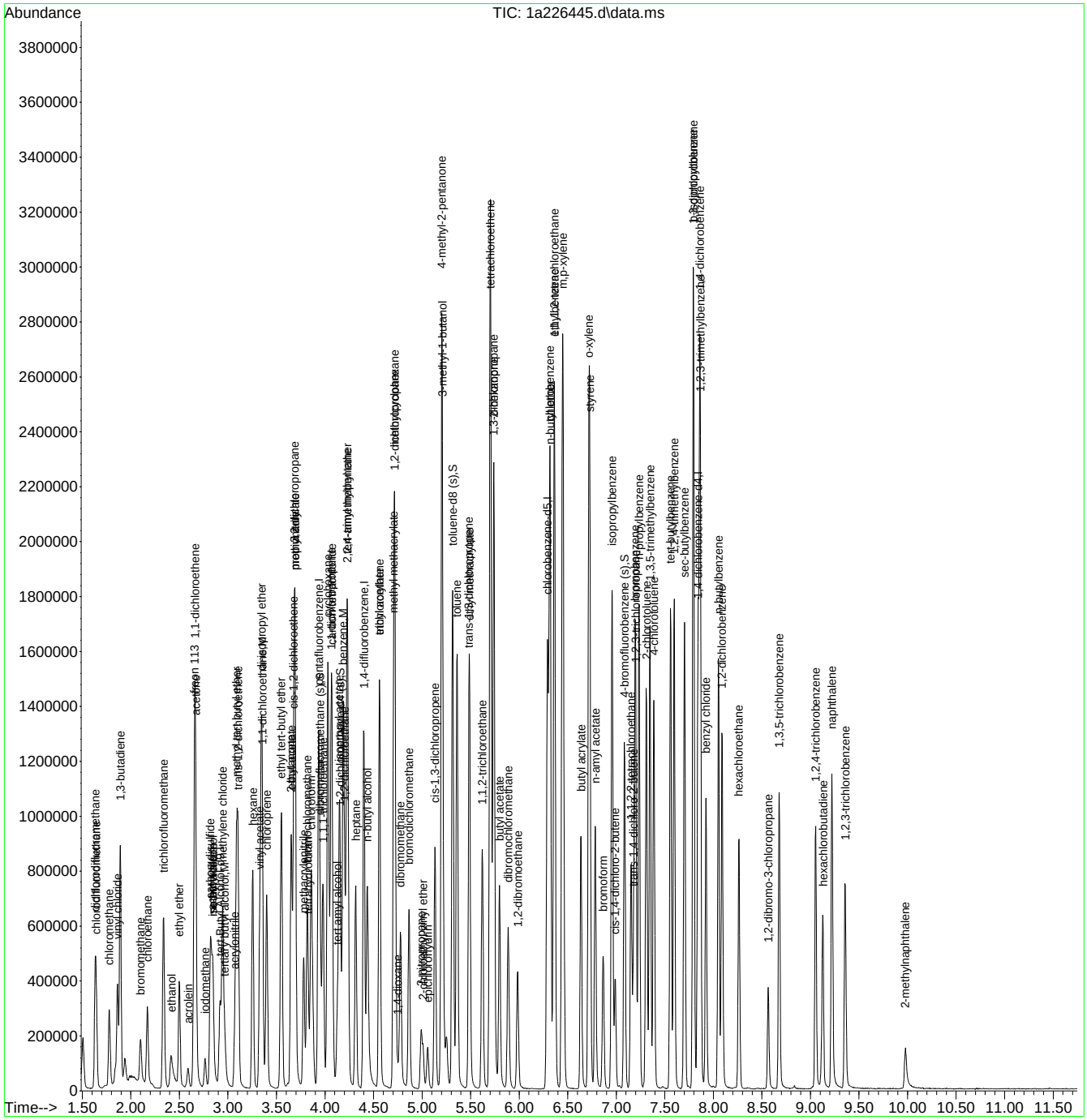
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) tert-butylbenzene | 7.558 | 119 | 657093 | 52.42 | ug/L | 96 |
| 107) 1,2,4-trimethylbenzene | 7.597 | 105 | 728147 | 50.29 | ug/L | 98 |
| 108) sec-butylbenzene | 7.703 | 105 | 912608 | 52.31 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.796 | 146 | 417852 | 52.80 | ug/L | 97 |
| 110) p-isopropyltoluene | 7.793 | 119 | 776545 | 54.88 | ug/L | 99 |
| 111) 1,2,3-trimethylbenzene | 7.866 | 105 | 713183 | 48.65 | ug/L | 100 |
| 112) 1,4-dichlorobenzene | 7.860 | 146 | 418611 | 49.72 | ug/L | 98 |
| 113) 1,2-dichlorobenzene | 8.088 | 146 | 403073 | 53.26 | ug/L | 98 |
| 114) n-butylbenzene | 8.052 | 92 | 350280 | 56.70 | ug/L | 98 |
| 115) 1,2-dibromo-3-chloropr... | 8.566 | 157 | 77822 | 55.54 | ug/L | 89 |
| 116) 1,3,5-trichlorobenzene | 8.678 | 180 | 253917 | 55.94 | ug/L | 98 |
| 117) 1,2,4-trichlorobenzene | 9.054 | 180 | 219866 | 58.86 | ug/L | 97 |
| 118) hexachlorobutadiene | 9.131 | 225 | 75957 | 55.04 | ug/L | 94 |
| 119) naphthalene | 9.220 | 128 | 743851 | 56.70 | ug/L | 99 |
| 120) 1,2,3-trichlorobenzene | 9.358 | 180 | 184432 | 57.10 | ug/L | 96 |
| 121) hexachloroethane | 8.261 | 119 | 124039 | 55.73 | ug/L | 98 |
| 122) benzyl chloride | 7.924 | 91 | 544126 | 76.22 | ug/L | 98 |
| 123) 2-methylnaphthalene | 9.975 | 142 | 89134 | 30.08 | ug/L | 88 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226445.d
Acq On : 27 Sep 2022 4:48 pm
Operator : nickw
Sample : jd52310-3msd Inst : MSDTEST1A
Misc : MS62427, V1A9698,5,,,,5
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 17:40:56 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92886.d
Acq On : 27 Sep 2022 11:20 pm
Operator : KYLEM
Sample : jd52507-6ms
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 28 09:14:16 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 241451 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.291 | 168 | 297064 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 3.753 | 114 | 417787 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 389047 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.507 | 152 | 176191 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 149719 | 50.54 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.08% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.496 | 65 | 140848 | 47.55 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 95.10% | | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 480925 | 50.22 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.44% | | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 145737 | 46.33 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.66% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.886 | 45 | 463578 | 9452.41 | ug/L | | 99 |
| 3) tertiary butyl alcohol | 2.368 | 59 | 235670 | 313.34 | ug/L | | 94 |
| 4) 1,4-dioxane | 4.104 | 88 | 80097 | 1300.33 | ug/L | | 93 |
| 6) chlorodifluoromethane | 1.294 | 51 | 114573 | 41.29 | ug/L | | 95 |
| 7) dichlorodifluoromethane | 1.288 | 85 | 169484 | 51.06 | ug/L | | 99 |
| 8) chloromethane | 1.398 | 52 | 67165 | 53.61 | ug/L | | 99 |
| 9) vinyl chloride | 1.456 | 62 | 255110 | 62.69 | ug/L | | 98 |
| 10) bromomethane | 1.640 | 96 | 193682 | 68.43 | ug/L | | 97 |
| 11) chloroethane | 1.692 | 64 | 228811 | 93.76 | ug/L | | 97 |
| 12) trichlorofluoromethane | 1.828 | 101 | 549840 | 91.26 | ug/L | | 99 |
| 13) 1,3-butadiene | 1.477 | 54 | 193301 | 51.78 | ug/L | | 99 |
| 14) ethyl ether | 1.959 | 74 | 116152 | 81.58 | ug/L | | 99 |
| 15) acrolein | 2.033 | 56 | 49326 | 77.96 | ug/L | | 94 |
| 16) freon 113 | 2.096 | 151 | 128982 | 53.99 | ug/L | | 95 |
| 17) 1,1-dichloroethene | 2.096 | 61 | 197986 | 54.71 | ug/L | | 97 |
| 18) acetone | 2.101 | 58 | 86436 | 225.64 | ug/L | | 96 |
| 19) acetonitrile | 2.243 | 41 | 270981 | 550.81 | ug/L | | 99 |
| 20) iodomethane | 2.190 | 142 | 154307 | 64.21 | ug/L | | 98 |
| 21) carbon disulfide | 2.237 | 76 | 296646 | 44.88 | ug/L | | 99 |
| 22) methylene chloride | 2.347 | 84 | 121499 | 45.09 | ug/L | | 94 |
| 23) methyl acetate | 2.258 | 74 | 31205 | 45.34 | ug/L | # | 81 |
| 24) methyl tert butyl ether | 2.479 | 73 | 350245 | 47.84 | ug/L | | 98 |
| 25) trans-1,2-dichloroethene | 2.489 | 96 | 126134 | 49.37 | ug/L | | 97 |
| 26) hexane | 2.631 | 56 | 62704 | 44.28 | ug/L | | 95 |
| 27) di-isopropyl ether | 2.714 | 45 | 375271 | 51.86 | ug/L | | 97 |
| 28) ethyl tert-butyl ether | 2.914 | 59 | 353798 | 49.18 | ug/L | | 99 |
| 29) 1,1-dichloroethane | 2.720 | 63 | 221623 | 50.71 | ug/L | | 99 |
| 30) chloroprene | 2.762 | 53 | 166703 | 51.02 | ug/L | | 99 |
| 31) acrylonitrile | 2.452 | 53 | 70282 | 52.26 | ug/L | | 99 |
| 32) vinyl acetate | 2.699 | 86 | 27886 | 46.92 | ug/L | # | 69 |
| 33) ethyl acetate | 3.013 | 45 | 34312 | 53.51 | ug/L | | 95 |
| 34) 2-butanone | 3.003 | 72 | 114108 | 219.80 | ug/L | # | 91 |
| 35) 2,2-dichloropropane | 3.040 | 77 | 182792 | 47.41 | ug/L | | 99 |
| 36) cis-1,2-dichloroethene | 3.029 | 96 | 161790 | 54.79 | ug/L | | 98 |
| 37) propionitrile | 3.040 | 54 | 353617 | 589.88 | ug/L | | 97 |
| 38) methyl acrylate | 3.045 | 85 | 34953 | 50.77 | ug/L | # | 72 |
| 39) bromochloromethane | 3.160 | 128 | 77080 | 49.92 | ug/L | | 98 |
| 40) tetrahydrofuran | 3.171 | 71 | 29019 | 46.01 | ug/L | | 96 |
| 41) chloroform | 3.202 | 83 | 237996 | 45.02 | ug/L | | 99 |
| 43) methacrylonitrile | 3.129 | 67 | 73744 | 50.28 | ug/L | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92886.d
Acq On : 27 Sep 2022 11:20 pm
Operator : KYLEM
Sample : jd52507-6ms
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 28 09:14:16 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 44) | 1,1,1-trichloroethane | 3.323 | 97 | 214366 | 47.79 | ug/L | | 99 |
| 45) | cyclohexane | 3.370 | 84 | 184451 | 52.66 | ug/L | | 95 |
| 46) | 1,1-dichloropropene | 3.407 | 75 | 183200 | 52.26 | ug/L | | 98 |
| 47) | carbon tetrachloride | 3.412 | 119 | 203922 | 49.20 | ug/L | | 98 |
| 48) | isobutyl alcohol | 3.407 | 42 | 83792 | 660.48 | ug/L | | 96 |
| 49) | tert-amyl alcohol | 3.485 | 55 | 64298 | 247.44 | ug/L | # | 79 |
| 52) | n-butyl alcohol | 3.800 | 56 | 452360 | 3032.29 | ug/L | | 99 |
| 53) | benzene | 3.527 | 78 | 481602 | 48.04 | ug/L | | 99 |
| 54) | tert-amyl methyl ether | 3.580 | 73 | 362260 | 46.13 | ug/L | | 98 |
| 55) | iso-octane | 3.580 | 57 | 243861 | 45.57 | ug/L | | 98 |
| 56) | heptane | 3.674 | 57 | 44232 | 42.70 | ug/L | | 97 |
| 57) | isopropyl acetate | 3.501 | 87 | 38305 | 47.12 | ug/L | # | 70 |
| 58) | 1,2-dichloroethane | 3.543 | 62 | 183426 | 43.94 | ug/L | | 99 |
| 59) | trichloroethene | 3.910 | 95 | 139431 | 46.98 | ug/L | | 98 |
| 60) | ethyl acrylate | 3.926 | 55 | 227226 | 48.71 | ug/L | | 99 |
| 61) | 2-nitropropane | 4.356 | 41 | 61362 | 49.57 | ug/L | | 98 |
| 62) | 2-chloroethyl vinyl ether | 4.429 | 63 | 3531 | 2.25 | ug/L | # | 66 |
| 63) | methyl methacrylate | 4.072 | 100 | 47827 | 46.99 | ug/L | # | 62 |
| 64) | 1,2-dichloropropane | 4.067 | 63 | 132225 | 50.41 | ug/L | | 95 |
| 65) | methylcyclohexane | 4.067 | 83 | 177475 | 48.01 | ug/L | | 99 |
| 66) | dibromomethane | 4.125 | 93 | 102941 | 44.86 | ug/L | | 95 |
| 67) | bromodichloromethane | 4.224 | 83 | 181648 | 45.02 | ug/L | | 99 |
| 68) | epichlorohydrin | 4.429 | 57 | 86476 | 199.19 | ug/L | | 97 |
| 69) | cis-1,3-dichloropropene | 4.508 | 75 | 198682 | 47.28 | ug/L | | 99 |
| 70) | 4-methyl-2-pentanone | 4.591 | 58 | 348583 | 221.51 | ug/L | | 92 |
| 71) | 3-methyl-1-butanol | 4.607 | 70 | 182986 | 1228.39 | ug/L | | 90 |
| 74) | toluene | 4.744 | 92 | 305587 | 46.83 | ug/L | | 98 |
| 75) | ethyl methacrylate | 4.906 | 69 | 185672 | 48.96 | ug/L | | 98 |
| 76) | trans-1,3-dichloropropene | 4.885 | 75 | 185808 | 47.73 | ug/L | | 98 |
| 77) | 1,1,2-trichloroethane | 5.027 | 83 | 110353 | 48.78 | ug/L | | 96 |
| 78) | 2-hexanone | 5.163 | 58 | 367420 | 221.79 | ug/L | | 95 |
| 79) | tetrachloroethene | 5.111 | 164 | 120402 | 47.57 | ug/L | | 98 |
| 80) | 1,3-dichloropropane | 5.142 | 76 | 203195 | 48.73 | ug/L | | 98 |
| 81) | butyl acetate | 5.236 | 56 | 104263 | 49.58 | ug/L | | 96 |
| 82) | dibromochloromethane | 5.305 | 129 | 166780 | 46.89 | ug/L | | 100 |
| 83) | 1,2-dibromoethane | 5.399 | 107 | 149963 | 47.20 | ug/L | | 97 |
| 84) | n-butyl ether | 5.808 | 57 | 489798 | 52.57 | ug/L | | 99 |
| 85) | chlorobenzene | 5.755 | 112 | 366980 | 46.69 | ug/L | | 98 |
| 86) | 1,1,1,2-tetrachloroethane | 5.813 | 131 | 154716 | 50.32 | ug/L | | 97 |
| 87) | ethylbenzene | 5.824 | 91 | 615535 | 49.87 | ug/L | | 98 |
| 88) | m,p-xylene | 5.918 | 106 | 464679 | 97.09 | ug/L | | 98 |
| 89) | o-xylene | 6.217 | 91 | 463904 | 49.03 | ug/L | | 100 |
| 90) | styrene | 6.227 | 104 | 381773 | 48.62 | ug/L | | 99 |
| 91) | butyl acrylate | 6.154 | 56 | 126802 | 54.38 | ug/L | | 95 |
| 92) | n-amyl acetate | 6.327 | 70 | 99815 | 47.96 | ug/L | | 94 |
| 93) | bromoform | 6.374 | 173 | 127392 | 48.39 | ug/L | | 98 |
| 94) | isopropylbenzene | 6.500 | 105 | 548872 | 48.88 | ug/L | | 100 |
| 95) | cis-1,4-dichloro-2-butene | 6.537 | 88 | 30658 | 23.35 | ug/L | | 92 |
| 98) | bromobenzene | 6.757 | 156 | 161862 | 45.42 | ug/L | | 93 |
| 99) | 1,1,2,2-tetrachloroethane | 6.731 | 83 | 206001 | 47.09 | ug/L | | 98 |
| 100) | trans-1,4-dichloro-2-b... | 6.757 | 53 | 25893 | 25.10 | ug/L | | 92 |
| 101) | 1,2,3-trichloropropane | 6.778 | 110 | 60348 | 46.40 | ug/L | | 95 |
| 102) | n-propylbenzene | 6.825 | 91 | 615782 | 47.89 | ug/L | | 99 |
| 103) | 2-chlorotoluene | 6.898 | 126 | 137635 | 46.70 | ug/L | | 96 |
| 104) | 4-chlorotoluene | 6.988 | 126 | 142596 | 47.00 | ug/L | | 96 |
| 105) | 1,3,5-trimethylbenzene | 6.961 | 105 | 412360 | 47.90 | ug/L | | 100 |
| 106) | tert-butylbenzene | 7.197 | 119 | 352229 | 46.93 | ug/L | | 99 |
| 107) | 1,2,4-trimethylbenzene | 7.239 | 105 | 415378 | 46.23 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92886.d
Acq On : 27 Sep 2022 11:20 pm
Operator : KYLEM
Sample : jd52507-6ms
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 28 09:14:16 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 108) sec-butylbenzene | 7.360 | 105 | 487393 | 47.93 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 272039 | 46.31 | ug/L | 99 |
| 110) p-isopropyltoluene | 7.470 | 119 | 410578 | 47.60 | ug/L | 99 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 419741 | 46.72 | ug/L | 100 |
| 112) 1,4-dichlorobenzene | 7.522 | 146 | 278586 | 45.46 | ug/L | 99 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 256156 | 46.26 | ug/L | 99 |
| 114) benzyl chloride | 7.596 | 91 | 243416 | 42.69 | ug/L | 97 |
| 115) n-butylbenzene | 7.753 | 92 | 182222 | 49.67 | ug/L | 97 |
| 116) hexachloroethane | 7.963 | 201 | 61815 | 46.20 | ug/L | 94 |
| 117) 1,2-dibromo-3-chloropr... | 8.298 | 157 | 58956 | 50.30 | ug/L | 93 |
| 118) 1,3,5-trichlorobenzene | 8.424 | 180 | 152172 | 48.96 | ug/L | 98 |
| 119) 1,2,4-trichlorobenzene | 8.817 | 180 | 130000 | 47.71 | ug/L | 99 |
| 120) hexachlorobutadiene | 8.906 | 225 | 44651 | 46.40 | ug/L | 98 |
| 121) naphthalene | 8.980 | 128 | 438768 | 47.91 | ug/L | 99 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 119530 | 48.89 | ug/L | 98 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 66810 | 21.46 | ug/L | 97 |

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

Quantitation Report (QT Reviewed)

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Data File : 2v92886.d
Acq On : 27 Sep 2022 11:20 pm
Operator : KYLEM
Sample : jd52507-6ms
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 36 Sample Multiplier: 1

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Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
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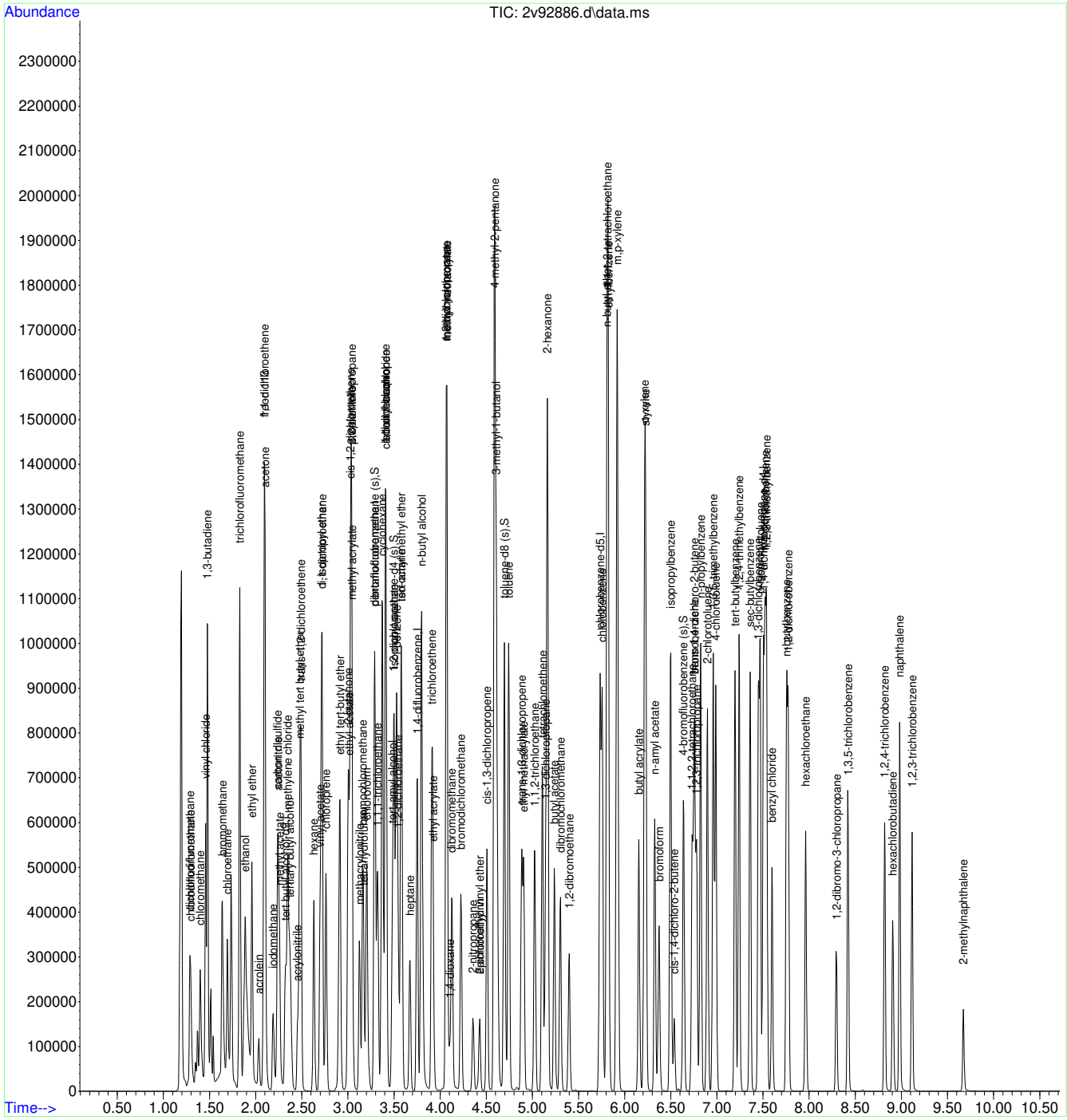

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92887.d
Acq On : 27 Sep 2022 11:43 pm
Operator : KYLEM
Sample : jd52507-6msd
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 28 09:14:20 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 2.326 | 65 | 252931 | 500.00 | ug/L | | 0.01 |
| 5) pentafluorobenzene | 3.291 | 168 | 302300 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 3.753 | 114 | 419559 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 400149 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.507 | 152 | 177571 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 42) dibromofluoromethane (s) | 3.296 | 113 | 153706 | 50.99 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.98% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.501 | 65 | 148584 | 49.95 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.90% | | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 485493 | 49.29 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.58% | | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 153622 | 48.45 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.90% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) ethanol | 1.886 | 45 | 432143 | 8411.51 | ug/L | | 97 |
| 3) tertiary butyl alcohol | 2.368 | 59 | 182143 | 231.18 | ug/L | | 92 |
| 4) 1,4-dioxane | 4.104 | 88 | 75018 | 1162.60 | ug/L | | 99 |
| 6) chlorodifluoromethane | 1.299 | 51 | 108615 | 38.47 | ug/L | | 97 |
| 7) dichlorodifluoromethane | 1.288 | 85 | 171205 | 50.69 | ug/L | | 98 |
| 8) chloromethane | 1.398 | 52 | 66094 | 51.84 | ug/L | | 98 |
| 9) vinyl chloride | 1.461 | 62 | 255019 | 61.58 | ug/L | | 98 |
| 10) bromomethane | 1.640 | 96 | 208635 | 72.44 | ug/L | | 99 |
| 11) chloroethane | 1.697 | 64 | 171896 | 69.22 | ug/L | | 97 |
| 12) trichlorofluoromethane | 1.828 | 101 | 534421 | 87.16 | ug/L | | 100 |
| 13) 1,3-butadiene | 1.482 | 54 | 183940 | 48.42 | ug/L | | 97 |
| 14) ethyl ether | 1.959 | 74 | 109324 | 75.46 | ug/L | | 90 |
| 15) acrolein | 2.033 | 56 | 48609 | 75.50 | ug/L | | 99 |
| 16) freon 113 | 2.096 | 151 | 109632 | 45.10 | ug/L | | 97 |
| 17) 1,1-dichloroethene | 2.101 | 61 | 177763 | 48.27 | ug/L | | 99 |
| 18) acetone | 2.101 | 58 | 77222 | 198.09 | ug/L | | 96 |
| 19) acetonitrile | 2.248 | 41 | 257637 | 514.62 | ug/L | | 98 |
| 20) iodomethane | 2.190 | 142 | 178453 | 71.26 | ug/L | | 98 |
| 21) carbon disulfide | 2.237 | 76 | 281215 | 41.81 | ug/L | | 99 |
| 22) methylene chloride | 2.347 | 84 | 115410 | 42.09 | ug/L | | 93 |
| 23) methyl acetate | 2.258 | 74 | 29551 | 42.19 | ug/L | # | 74 |
| 24) methyl tert butyl ether | 2.479 | 73 | 338660 | 45.46 | ug/L | | 98 |
| 25) trans-1,2-dichloroethene | 2.494 | 96 | 120192 | 46.23 | ug/L | | 95 |
| 26) hexane | 2.631 | 56 | 59066 | 40.99 | ug/L | | 94 |
| 27) di-isopropyl ether | 2.714 | 45 | 355797 | 48.31 | ug/L | | 96 |
| 28) ethyl tert-butyl ether | 2.914 | 59 | 333554 | 45.56 | ug/L | | 98 |
| 29) 1,1-dichloroethane | 2.720 | 63 | 209819 | 47.18 | ug/L | | 99 |
| 30) chloroprene | 2.762 | 53 | 156129 | 46.95 | ug/L | | 97 |
| 31) acrylonitrile | 2.458 | 53 | 70941 | 51.84 | ug/L | | 97 |
| 32) vinyl acetate | 2.699 | 86 | 27222 | 45.01 | ug/L | | 95 |
| 33) ethyl acetate | 3.013 | 45 | 29315 | 44.92 | ug/L | | 87 |
| 34) 2-butanone | 3.003 | 72 | 108346 | 205.09 | ug/L | | 98 |
| 35) 2,2-dichloropropane | 3.040 | 77 | 169755 | 43.27 | ug/L | | 99 |
| 36) cis-1,2-dichloroethene | 3.029 | 96 | 153285 | 51.01 | ug/L | | 99 |
| 37) propionitrile | 3.040 | 54 | 328542 | 538.56 | ug/L | | 90 |
| 38) methyl acrylate | 3.050 | 85 | 33575 | 47.92 | ug/L | | 95 |
| 39) bromochloromethane | 3.160 | 128 | 72322 | 46.03 | ug/L | | 94 |
| 40) tetrahydrofuran | 3.176 | 71 | 27678 | 43.12 | ug/L | | 97 |
| 41) chloroform | 3.207 | 83 | 225002 | 41.82 | ug/L | | 99 |
| 43) methacrylonitrile | 3.129 | 67 | 69552 | 46.60 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
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Operator : KYLEM
Sample : jd52507-6msd
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 28 09:14:20 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 44) | 1,1,1-trichloroethane | 3.323 | 97 | 203162 | 44.51 | ug/L | | 100 |
| 45) | cyclohexane | 3.370 | 84 | 182921 | 51.32 | ug/L | # | 88 |
| 46) | 1,1-dichloropropene | 3.407 | 75 | 173612 | 48.67 | ug/L | | 98 |
| 47) | carbon tetrachloride | 3.417 | 119 | 189820 | 45.00 | ug/L | | 97 |
| 48) | isobutyl alcohol | 3.407 | 42 | 74583 | 577.71 | ug/L | | 96 |
| 49) | tert-amyl alcohol | 3.485 | 55 | 59856 | 226.36 | ug/L | # | 78 |
| 52) | n-butyl alcohol | 3.800 | 56 | 424453 | 2833.21 | ug/L | | 99 |
| 53) | benzene | 3.527 | 78 | 452871 | 44.99 | ug/L | | 99 |
| 54) | tert-amyl methyl ether | 3.580 | 73 | 347223 | 44.03 | ug/L | | 98 |
| 55) | iso-octane | 3.580 | 57 | 228370 | 42.49 | ug/L | | 100 |
| 56) | heptane | 3.674 | 57 | 41672 | 40.06 | ug/L | | 94 |
| 57) | isopropyl acetate | 3.501 | 87 | 35245 | 43.17 | ug/L | # | 69 |
| 58) | 1,2-dichloroethane | 3.543 | 62 | 172614 | 41.17 | ug/L | | 100 |
| 59) | trichloroethene | 3.910 | 95 | 129119 | 43.33 | ug/L | | 96 |
| 60) | ethyl acrylate | 3.926 | 55 | 216702 | 46.26 | ug/L | | 98 |
| 61) | 2-nitropropane | 4.356 | 41 | 58207 | 46.82 | ug/L | | 94 |
| 62) | 2-chloroethyl vinyl ether | 4.434 | 63 | 3511 | 2.23 | ug/L | # | 55 |
| 63) | methyl methacrylate | 4.072 | 100 | 44947 | 43.97 | ug/L | # | 63 |
| 64) | 1,2-dichloropropane | 4.067 | 63 | 125251 | 47.55 | ug/L | | 96 |
| 65) | methylcyclohexane | 4.067 | 83 | 168267 | 45.33 | ug/L | | 100 |
| 66) | dibromomethane | 4.125 | 93 | 98077 | 42.56 | ug/L | | 92 |
| 67) | bromodichloromethane | 4.224 | 83 | 174599 | 43.09 | ug/L | | 99 |
| 68) | epichlorohydrin | 4.429 | 57 | 72704 | 166.76 | ug/L | | 94 |
| 69) | cis-1,3-dichloropropene | 4.508 | 75 | 188023 | 44.56 | ug/L | | 99 |
| 70) | 4-methyl-2-pentanone | 4.591 | 58 | 324705 | 205.46 | ug/L | | 90 |
| 71) | 3-methyl-1-butanol | 4.612 | 70 | 172314 | 1151.86 | ug/L | | 97 |
| 74) | toluene | 4.744 | 92 | 289534 | 43.14 | ug/L | | 99 |
| 75) | ethyl methacrylate | 4.906 | 69 | 175535 | 45.00 | ug/L | | 99 |
| 76) | trans-1,3-dichloropropene | 4.885 | 75 | 175907 | 43.93 | ug/L | | 98 |
| 77) | 1,1,2-trichloroethane | 5.027 | 83 | 105223 | 45.22 | ug/L | | 97 |
| 78) | 2-hexanone | 5.163 | 58 | 345635 | 202.85 | ug/L | | 94 |
| 79) | tetrachloroethene | 5.111 | 164 | 115315 | 44.30 | ug/L | | 99 |
| 80) | 1,3-dichloropropane | 5.147 | 76 | 191613 | 44.67 | ug/L | | 99 |
| 81) | butyl acetate | 5.236 | 56 | 97411 | 45.04 | ug/L | | 95 |
| 82) | dibromochloromethane | 5.305 | 129 | 156113 | 42.67 | ug/L | | 99 |
| 83) | 1,2-dibromoethane | 5.399 | 107 | 141216 | 43.22 | ug/L | | 98 |
| 84) | n-butyl ether | 5.808 | 57 | 457973 | 47.79 | ug/L | | 100 |
| 85) | chlorobenzene | 5.755 | 112 | 342824 | 42.40 | ug/L | | 97 |
| 86) | 1,1,1,2-tetrachloroethane | 5.818 | 131 | 143494 | 45.38 | ug/L | | 99 |
| 87) | ethylbenzene | 5.824 | 91 | 571046 | 44.98 | ug/L | | 99 |
| 88) | m,p-xylene | 5.918 | 106 | 433640 | 88.09 | ug/L | | 99 |
| 89) | o-xylene | 6.217 | 91 | 429331 | 44.11 | ug/L | | 99 |
| 90) | styrene | 6.227 | 104 | 355351 | 44.00 | ug/L | | 97 |
| 91) | butyl acrylate | 6.154 | 56 | 120664 | 50.31 | ug/L | | 91 |
| 92) | n-amyl acetate | 6.327 | 70 | 93662 | 43.75 | ug/L | | 93 |
| 93) | bromoform | 6.374 | 173 | 118179 | 43.64 | ug/L | | 99 |
| 94) | isopropylbenzene | 6.500 | 105 | 514140 | 44.52 | ug/L | | 98 |
| 95) | cis-1,4-dichloro-2-butene | 6.537 | 88 | 26567 | 19.67 | ug/L | | 92 |
| 98) | bromobenzene | 6.757 | 156 | 152214 | 42.38 | ug/L | | 95 |
| 99) | 1,1,2,2-tetrachloroethane | 6.731 | 83 | 194443 | 44.11 | ug/L | | 98 |
| 100) | trans-1,4-dichloro-2-b... | 6.762 | 53 | 23128 | 22.24 | ug/L | | 96 |
| 101) | 1,2,3-trichloropropane | 6.778 | 110 | 56077 | 42.78 | ug/L | | 97 |
| 102) | n-propylbenzene | 6.825 | 91 | 572598 | 44.18 | ug/L | | 99 |
| 103) | 2-chlorotoluene | 6.898 | 126 | 127892 | 43.06 | ug/L | | 93 |
| 104) | 4-chlorotoluene | 6.988 | 126 | 131507 | 43.01 | ug/L | | 95 |
| 105) | 1,3,5-trimethylbenzene | 6.961 | 105 | 384735 | 44.35 | ug/L | | 99 |
| 106) | tert-butylbenzene | 7.197 | 119 | 327226 | 43.26 | ug/L | | 98 |
| 107) | 1,2,4-trimethylbenzene | 7.239 | 105 | 387954 | 42.84 | ug/L | | 97 |

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Sample : jd52507-6msd
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ALS Vial : 37 Sample Multiplier: 1

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Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
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|---|---|---|---|---|---|---|
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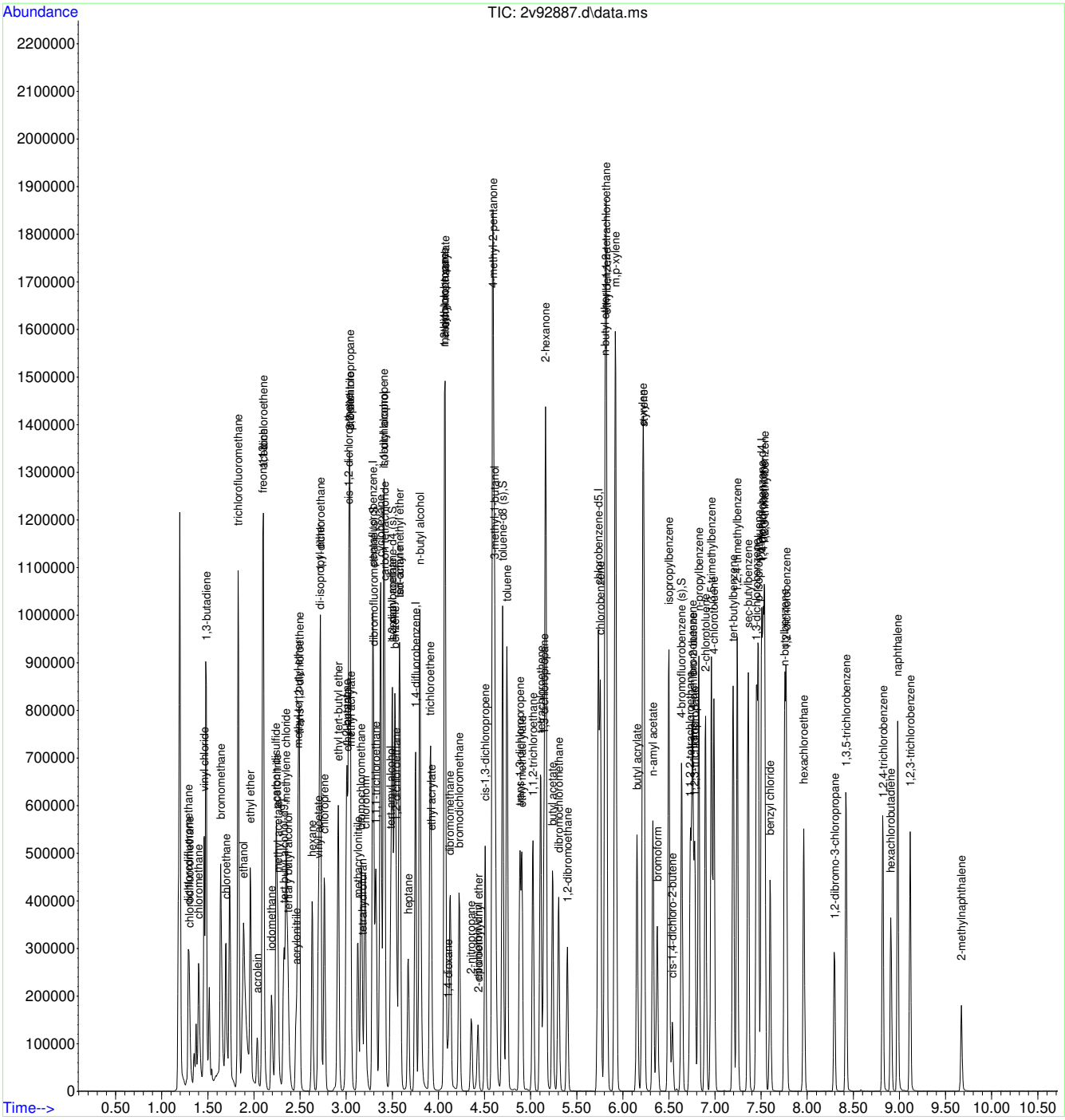
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 394189 | 43.53 | ug/L | 99 |
| 112) 1,4-dichlorobenzene | 7.522 | 146 | 258172 | 41.80 | ug/L | 98 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 239840 | 42.98 | ug/L | 98 |
| 114) benzyl chloride | 7.596 | 91 | 225568 | 39.25 | ug/L | 98 |
| 115) n-butylbenzene | 7.753 | 92 | 168753 | 45.64 | ug/L | 93 |
| 116) hexachloroethane | 7.963 | 201 | 57203 | 42.42 | ug/L | 94 |
| 117) 1,2-dibromo-3-chloropr... | 8.298 | 157 | 54962 | 46.52 | ug/L | 88 |
| 118) 1,3,5-trichlorobenzene | 8.424 | 180 | 140832 | 44.96 | ug/L | 97 |
| 119) 1,2,4-trichlorobenzene | 8.823 | 180 | 121594 | 44.27 | ug/L | 99 |
| 120) hexachlorobutadiene | 8.907 | 225 | 42808 | 44.14 | ug/L | 95 |
| 121) naphthalene | 8.980 | 128 | 416127 | 45.08 | ug/L | 99 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 112454 | 45.64 | ug/L | 97 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 65933 | 21.01 | ug/L | 96 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92887.d
Acq On : 27 Sep 2022 11:43 pm
Operator : KYLEM
Sample : jd52507-6msd
Misc : MS62506,V2V3773,5,,,,1
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 28 09:14:20 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220400.d
Acq On : 29 Sep 2022 2:08 pm
Operator : nicoleh
Sample : jd50917-15ms Inst : GCMS2A
Misc : MS62503,V2A9581,5,,,,5
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 29 15:05:00 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.241 | 65 | 453152 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.506 | 168 | 714820 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.434 | 114 | 1074103 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.558 | 117 | 1002242 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 498946 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.506 | 168 | 714511 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 348859 | 51.85 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.70% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.951 | 65 | 413253 | 41.39 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 82.78% | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 1224792 | 49.88 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.76% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 506817 | 54.91 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 109.82% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 5.961 | 45 | 406603 | 3683.14 | ug/L | 99 |
| 3) tertiary butyl alcohol | 7.356 | 59 | 268871 | 241.52 | ug/L | 80 |
| 4) 1,4-dioxane | 11.078 | 88 | 84339 | 1080.95 | ug/L | 92 |
| 6) chlorodifluoromethane | 3.990 | 51 | 212225 | 21.77 | ug/L | 98 |
| 7) dichlorodifluoromethane | 3.964 | 85 | 341964 | 35.62 | ug/L | 98 |
| 8) chloromethane | 4.346 | 50 | 435957 | 35.09 | ug/L | 99 |
| 9) vinyl chloride | 4.567 | 62 | 359523 | 37.84 | ug/L | 95 |
| 10) 1,3-butadiene | 4.614 | 54 | 211994 | 25.05 | ug/L | 98 |
| 11) bromomethane | 5.191 | 94 | 233971 | 41.75 | ug/L | 97 |
| 12) chloroethane | 5.353 | 64 | 216656 | 48.16 | ug/L | 92 |
| 13) trichlorofluoromethane | 5.783 | 101 | 459675 | 43.18 | ug/L | 96 |
| 14) ethyl ether | 6.192 | 74 | 163342 | 48.15 | ug/L | 96 |
| 15) acrolein | 6.402 | 56 | 41247 | 27.17 | ug/L | 92 |
| 16) freon 113 | 6.617 | 151 | 207867 | 41.08 | ug/L | 98 |
| 17) 1,1-dichloroethene | 6.596 | 96 | 222117 | 41.88 | ug/L | 92 |
| 18) acetone | 6.606 | 43 | 474731 | 172.73 | ug/L | 95 |
| 19) acetonitrile | 7.010 | 41 | 531667 | 468.78 | ug/L | 93 |
| 20) iodomethane | 6.847 | 142 | 444438 | 42.94 | ug/L | 92 |
| 21) carbon disulfide | 6.984 | 76 | 732666 | 41.70 | ug/L | 93 |
| 22) methylene chloride | 7.298 | 84 | 297970 | 47.41 | ug/L | 99 |
| 23) methyl acetate | 7.057 | 43 | 325392 | 47.50 | ug/L | 100 |
| 24) methyl tert butyl ether | 7.660 | 73 | 913310 | 48.29 | ug/L | 97 |
| 25) trans-1,2-dichloroethene | 7.686 | 96 | 281786 | 46.88 | ug/L | 97 |
| 26) hexane | 8.037 | 57 | 461185 | 43.17 | ug/L | 99 |
| 27) di-isopropyl ether | 8.247 | 45 | 1366415 | 52.19 | ug/L | 98 |
| 28) ethyl tert-butyl ether | 8.709 | 59 | 1192944 | 52.35 | ug/L | 99 |
| 29) 2-butanone | 8.897 | 72 | 160230 | 216.61 | ug/L # | 87 |
| 30) 1,1-dichloroethane | 8.258 | 63 | 586681 | 49.92 | ug/L | 98 |
| 31) chloroprene | 8.357 | 53 | 536218 | 48.04 | ug/L | 95 |
| 32) acrylonitrile | 7.587 | 53 | 98549 | 32.50 | ug/L | 98 |
| 33) vinyl acetate | 8.195 | 86 | 64235 | 57.94 | ug/L # | 75 |
| 34) ethyl acetate | 8.918 | 45 | 69120 | 50.34 | ug/L | 92 |
| 35) 2,2-dichloropropane | 8.997 | 77 | 468741 | 49.91 | ug/L | 99 |
| 36) cis-1,2-dichloroethene | 8.966 | 96 | 487576 | 73.75 | ug/L | 99 |
| 37) propionitrile | 8.976 | 54 | 592238 | 523.68 | ug/L | 90 |
| 38) bromochloromethane | 9.259 | 130 | 218199 | 49.65 | ug/L | 92 |
| 39) tetrahydrofuran | 9.280 | 42 | 134903 | 43.02 | ug/L | 96 |
| 40) chloroform | 9.348 | 83 | 572686 | 46.90 | ug/L | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220400.d
Acq On : 29 Sep 2022 2:08 pm
Operator : nicoleh
Sample : jd50917-15ms Inst : GCMS2A
Misc : MS62503,V2A9581,5,,,,5
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 29 15:05:00 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) tert-butyl formate | 9.385 | 59 | 310495 | 52.29 | ug/L | | 96 |
| 42) isobutyl alcohol | 9.741 | 43 | 219411 | 463.62 | ug/L | | 96 |
| 44) methacrylonitrile | 9.175 | 67 | 147079 | 52.36 | ug/L | | 88 |
| 45) 1,1,1-trichloroethane | 9.605 | 97 | 500789 | 47.23 | ug/L | | 97 |
| 46) cyclohexane | 9.715 | 84 | 416391 | 46.99 | ug/L | | 98 |
| 47) 1,1-dichloropropene | 9.773 | 75 | 424812 | 49.75 | ug/L | | 97 |
| 48) tert-amyl alcohol | 9.904 | 73 | 112316 | 237.38 | ug/L | | 96 |
| 49) carbon tetrachloride | 9.799 | 117 | 434526 | 45.40 | ug/L | | 97 |
| 52) 2,2,4-trimethylpentane | 10.114 | 57 | 1306893 | 43.29 | ug/L | | 96 |
| 53) tert-amyl methyl ether | 10.103 | 73 | 1018143 | 46.02 | ug/L | | 99 |
| 54) n-butyl alcohol | 10.491 | 56 | 678268 | 2430.75 | ug/L | | 94 |
| 55) benzene | 10.019 | 78 | 1217155 | 47.76 | ug/L | | 98 |
| 56) heptane | 10.276 | 57 | 247322 | 40.15 | ug/L | | 98 |
| 57) isopropyl acetate | 9.935 | 87 | 75831 | 47.41 | ug/L | | 95 |
| 58) 1,2-dichloroethane | 10.040 | 62 | 506722 | 42.32 | ug/L | | 99 |
| 59) trichloroethene | 10.743 | 95 | 596673 | 81.89 | ug/L | | 97 |
| 60) ethyl acrylate | 10.732 | 55 | 562138 | 48.59 | ug/L | | 99 |
| 61) 2-nitropropane | 11.498 | 41 | 111384 | 36.63 | ug/L | | 100 |
| 62) 2-chloroethyl vinyl ether | 11.540 | 63 | 31919 | 16.06 | ug/L | | 97 |
| 63) methyl methacrylate | 11.000 | 100 | 91677 | 50.19 | ug/L | # | 85 |
| 64) 1,2-dichloropropane | 11.031 | 63 | 359233 | 47.51 | ug/L | | 97 |
| 65) methylcyclohexane | 11.042 | 83 | 504453 | 42.31 | ug/L | | 99 |
| 66) dibromomethane | 11.141 | 93 | 217614 | 43.84 | ug/L | | 97 |
| 67) bromodichloromethane | 11.293 | 83 | 455283 | 44.31 | ug/L | | 99 |
| 68) epichlorohydrin | 11.618 | 57 | 200309 | 221.95 | ug/L | | 96 |
| 69) cis-1,3-dichloropropene | 11.755 | 75 | 552459 | 49.12 | ug/L | | 85 |
| 70) 4-methyl-2-pentanone | 11.860 | 58 | 647613 | 181.63 | ug/L | | 97 |
| 71) 3-methyl-1-butanol | 11.865 | 70 | 203615 | 925.90 | ug/L | | 93 |
| 74) toluene | 12.132 | 92 | 752863 | 47.29 | ug/L | | 98 |
| 75) trans-1,3-dichloropropene | 12.321 | 75 | 491359 | 46.56 | ug/L | | 99 |
| 76) ethyl methacrylate | 12.316 | 69 | 451509 | 49.82 | ug/L | | 88 |
| 77) 1,1,2-trichloroethane | 12.536 | 83 | 253334 | 46.28 | ug/L | | 97 |
| 78) 2-hexanone | 12.704 | 58 | 617944 | 185.52 | ug/L | | 94 |
| 79) tetrachloroethene | 12.683 | 166 | 1086286 | 137.05 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 12.720 | 76 | 479653 | 45.67 | ug/L | | 100 |
| 81) butyl acetate | 12.788 | 56 | 272555 | 47.63 | ug/L | | 99 |
| 82) dibromochloromethane | 12.961 | 129 | 352093 | 44.08 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.113 | 107 | 307192 | 45.32 | ug/L | | 92 |
| 84) n-butyl ether | 13.558 | 57 | 1438083 | 45.59 | ug/L | | 97 |
| 85) chlorobenzene | 13.595 | 112 | 824534 | 47.49 | ug/L | | 97 |
| 86) 1,1,1,2-tetrachloroethane | 13.658 | 131 | 312429 | 44.74 | ug/L | | 99 |
| 87) ethylbenzene | 13.653 | 91 | 1364374 | 45.70 | ug/L | | 94 |
| 88) m,p-xylene | 13.779 | 106 | 1021375 | 88.02 | ug/L | | 90 |
| 89) o-xylene | 14.177 | 91 | 1104099 | 45.31 | ug/L | | 96 |
| 90) styrene | 14.188 | 104 | 830700 | 43.99 | ug/L | | 97 |
| 91) n-amyl acetate | 14.219 | 70 | 213005 | 43.23 | ug/L | | 96 |
| 92) bromoform | 14.408 | 173 | 249747 | 43.48 | ug/L | | 96 |
| 93) butyl acrylate | 14.009 | 55 | 800288 | 47.62 | ug/L | | 99 |
| 94) isopropylbenzene | 14.523 | 105 | 1277506 | 43.96 | ug/L | | 99 |
| 95) cis-1,4-dichloro-2-butene | 14.560 | 88 | 87176 | 27.87 | ug/L | | 95 |
| 98) bromobenzene | 14.901 | 156 | 361664 | 45.29 | ug/L | | 99 |
| 99) 1,1,2,2-tetrachloroethane | 14.801 | 83 | 383284 | 45.20 | ug/L | | 99 |
| 100) trans-1,4-dichloro-2-b... | 14.832 | 53 | 79592 | 28.19 | ug/L | | 93 |
| 101) 1,2,3-trichloropropane | 14.885 | 110 | 94693 | 43.40 | ug/L | | 99 |
| 102) n-propylbenzene | 14.937 | 91 | 1554631 | 48.55 | ug/L | | 96 |
| 103) 2-chlorotoluene | 15.068 | 126 | 324033 | 46.49 | ug/L | | 95 |
| 104) 4-chlorotoluene | 15.179 | 91 | 975884 | 47.91 | ug/L | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220400.d
Acq On : 29 Sep 2022 2:08 pm
Operator : nicoleh
Sample : jd50917-15ms Inst : GCMS2A
Misc : MS62503,V2A9581,5,,,,5
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 29 15:05:00 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

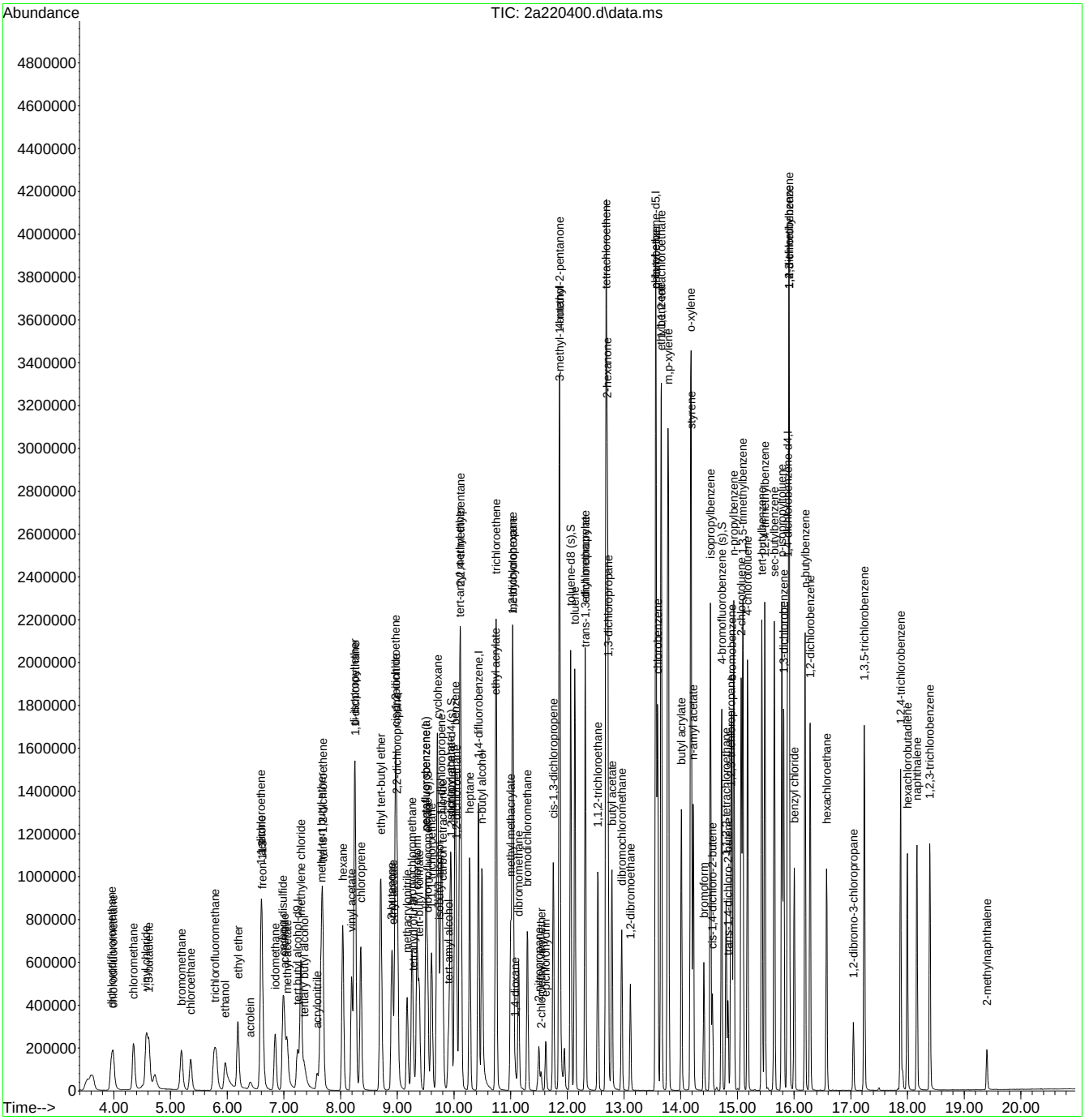
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 105) 1,3,5-trimethylbenzene | 15.095 | 105 | 1056843 | 47.51 | ug/L | 100 |
| 106) tert-butylbenzene | 15.430 | 119 | 901399 | 46.78 | ug/L | 99 |
| 107) 1,2,4-trimethylbenzene | 15.483 | 105 | 1070443 | 47.25 | ug/L | 97 |
| 108) sec-butylbenzene | 15.650 | 105 | 1321364 | 45.99 | ug/L | 100 |
| 109) 1,3-dichlorobenzene | 15.818 | 146 | 643134 | 45.18 | ug/L | 97 |
| 110) p-isopropyltoluene | 15.781 | 119 | 1129302 | 46.09 | ug/L | 99 |
| 111) benzyl chloride | 16.002 | 91 | 633130 | 45.38 | ug/L | 99 |
| 112) 1,2,3-trimethylbenzene | 15.913 | 105 | 1066454 | 45.64 | ug/L | 98 |
| 113) 1,4-dichlorobenzene | 15.913 | 146 | 644264 | 43.53 | ug/L | 98 |
| 114) 1,2-dichlorobenzene | 16.285 | 146 | 621231 | 44.65 | ug/L | 99 |
| 115) n-butylbenzene | 16.196 | 92 | 581621 | 44.63 | ug/L | 96 |
| 116) 1,2-dibromo-3-chloropr... | 17.045 | 157 | 76956 | 41.81 | ug/L | 97 |
| 117) 1,3,5-trichlorobenzene | 17.239 | 180 | 503083 | 46.27 | ug/L | 99 |
| 118) 1,2,4-trichlorobenzene | 17.879 | 180 | 420237 | 44.94 | ug/L | 98 |
| 119) hexachlorobutadiene | 17.999 | 225 | 223972 | 46.54 | ug/L | 96 |
| 120) naphthalene | 18.167 | 128 | 794430 | 35.66 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 18.392 | 180 | 356300 | 40.47 | ug/L | 98 |
| 122) hexachloroethane | 16.573 | 201 | 162112 | 40.41 | ug/L | 98 |
| 123) 2-methylnaphthalene | 19.404 | 142 | 92389 | 8.14 | ug/L | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220400.d
Acq On : 29 Sep 2022 2:08 pm
Operator : nicoleh
Sample : jd50917-15ms Inst : GCMS2A
Misc : MS62503,V2A9581,5,,,,5
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 29 15:05:00 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220401.d
Acq On : 29 Sep 2022 2:37 pm
Operator : nicoleh
Sample : jd50917-15msd Inst : GCMS2A
Misc : MS62503,V2A9581,5,,,,5
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 29 15:05:03 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.246 | 65 | 457373 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.505 | 168 | 719279 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.433 | 114 | 1082629 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.563 | 117 | 1014988 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 505297 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.505 | 168 | 718770 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 355060 | 52.44 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.88% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.951 | 65 | 416595 | 41.39 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 82.78% | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 1233304 | 49.60 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.20% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 509670 | 54.52 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 109.04% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 5.961 | 45 | 401401 | 3602.46 | ug/L | 98 |
| 3) tertiary butyl alcohol | 7.361 | 59 | 253491 | 225.60 | ug/L | 81 |
| 4) 1,4-dioxane | 11.078 | 88 | 81204 | 1031.16 | ug/L | 99 |
| 6) chlorodifluoromethane | 3.990 | 51 | 209501 | 21.36 | ug/L | 99 |
| 7) dichlorodifluoromethane | 3.958 | 85 | 340909 | 35.29 | ug/L | 98 |
| 8) chloromethane | 4.346 | 50 | 428142 | 34.25 | ug/L | 99 |
| 9) vinyl chloride | 4.566 | 62 | 356598 | 37.30 | ug/L | 98 |
| 10) 1,3-butadiene | 4.614 | 54 | 204900 | 24.06 | ug/L | 98 |
| 11) bromomethane | 5.196 | 94 | 233653 | 41.43 | ug/L | 97 |
| 12) chloroethane | 5.353 | 64 | 212532 | 46.95 | ug/L | 90 |
| 13) trichlorofluoromethane | 5.778 | 101 | 455864 | 42.55 | ug/L | 93 |
| 14) ethyl ether | 6.187 | 74 | 158683 | 46.49 | ug/L | 96 |
| 15) acrolein | 6.407 | 56 | 41940 | 27.46 | ug/L | 95 |
| 16) freon 113 | 6.611 | 151 | 201572 | 39.59 | ug/L | 95 |
| 17) 1,1-dichloroethene | 6.595 | 96 | 214526 | 40.20 | ug/L | 92 |
| 18) acetone | 6.601 | 43 | 448313 | 162.11 | ug/L | 96 |
| 19) acetonitrile | 7.015 | 41 | 512323 | 448.92 | ug/L | 97 |
| 20) iodomethane | 6.842 | 142 | 432159 | 41.49 | ug/L | 90 |
| 21) carbon disulfide | 6.983 | 76 | 708242 | 40.06 | ug/L | 93 |
| 22) methylene chloride | 7.303 | 84 | 289958 | 45.85 | ug/L | 97 |
| 23) methyl acetate | 7.057 | 43 | 302287 | 43.85 | ug/L | 97 |
| 24) methyl tert butyl ether | 7.660 | 73 | 873717 | 45.91 | ug/L | 97 |
| 25) trans-1,2-dichloroethene | 7.681 | 96 | 272540 | 45.06 | ug/L | 98 |
| 26) hexane | 8.037 | 57 | 444605 | 41.36 | ug/L | 99 |
| 27) di-isopropyl ether | 8.252 | 45 | 1306624 | 49.60 | ug/L | 96 |
| 28) ethyl tert-butyl ether | 8.708 | 59 | 1146066 | 49.99 | ug/L | 98 |
| 29) 2-butanone | 8.902 | 72 | 148875 | 200.02 | ug/L | 98 |
| 30) 1,1-dichloroethane | 8.258 | 63 | 561285 | 47.46 | ug/L | 98 |
| 31) chloroprene | 8.357 | 53 | 508244 | 45.25 | ug/L | 95 |
| 32) acrylonitrile | 7.586 | 53 | 94356 | 30.93 | ug/L | 97 |
| 33) vinyl acetate | 8.200 | 86 | 61005 | 54.69 | ug/L # | 64 |
| 34) ethyl acetate | 8.918 | 45 | 65931 | 47.72 | ug/L | 93 |
| 35) 2,2-dichloropropane | 8.997 | 77 | 446693 | 47.26 | ug/L | 98 |
| 36) cis-1,2-dichloroethene | 8.965 | 96 | 469818 | 70.63 | ug/L | 98 |
| 37) propionitrile | 8.976 | 54 | 556648 | 489.16 | ug/L | 88 |
| 38) bromochloromethane | 9.259 | 130 | 211825 | 47.90 | ug/L | 96 |
| 39) tetrahydrofuran | 9.280 | 42 | 126619 | 40.13 | ug/L | 98 |
| 40) chloroform | 9.348 | 83 | 547589 | 44.57 | ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220401.d
Acq On : 29 Sep 2022 2:37 pm
Operator : nicoleh
Sample : jd50917-15msd Inst : GCMS2A
Misc : MS62503,V2A9581,5,,,,5
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 29 15:05:03 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) tert-butyl formate | 9.390 | 59 | 287955 | 48.20 | ug/L | | 94 |
| 42) isobutyl alcohol | 9.747 | 43 | 210351 | 441.72 | ug/L | | 92 |
| 44) methacrylonitrile | 9.175 | 67 | 141159 | 49.94 | ug/L | | 87 |
| 45) 1,1,1-trichloroethane | 9.605 | 97 | 478795 | 44.87 | ug/L | | 99 |
| 46) cyclohexane | 9.715 | 84 | 410250 | 46.01 | ug/L | | 97 |
| 47) 1,1-dichloropropene | 9.773 | 75 | 405283 | 47.17 | ug/L | | 97 |
| 48) tert-amyl alcohol | 9.904 | 73 | 107643 | 226.09 | ug/L | | 90 |
| 49) carbon tetrachloride | 9.799 | 117 | 418751 | 43.48 | ug/L | | 97 |
| 52) 2,2,4-trimethylpentane | 10.119 | 57 | 1253704 | 41.20 | ug/L | | 92 |
| 53) tert-amyl methyl ether | 10.103 | 73 | 982265 | 44.05 | ug/L | | 99 |
| 54) n-butyl alcohol | 10.496 | 56 | 635669 | 2260.15 | ug/L | | 93 |
| 55) benzene | 10.019 | 78 | 1166966 | 45.43 | ug/L | | 97 |
| 56) heptane | 10.276 | 57 | 240432 | 38.73 | ug/L | | 97 |
| 57) isopropyl acetate | 9.935 | 87 | 70899 | 43.97 | ug/L | | 95 |
| 58) 1,2-dichloroethane | 10.040 | 62 | 481844 | 39.92 | ug/L | | 99 |
| 59) trichloroethene | 10.743 | 95 | 578217 | 78.74 | ug/L | | 95 |
| 60) ethyl acrylate | 10.737 | 55 | 534863 | 45.86 | ug/L | | 99 |
| 61) 2-nitropropane | 11.498 | 41 | 104662 | 34.14 | ug/L | | 93 |
| 62) 2-chloroethyl vinyl ether | 11.540 | 63 | 8514 | 9.82 | ug/L | | 95 |
| 63) methyl methacrylate | 11.000 | 100 | 84915 | 46.12 | ug/L | # | 82 |
| 64) 1,2-dichloropropane | 11.031 | 63 | 345427 | 45.33 | ug/L | | 95 |
| 65) methylcyclohexane | 11.042 | 83 | 495428 | 41.22 | ug/L | | 97 |
| 66) dibromomethane | 11.141 | 93 | 207725 | 41.52 | ug/L | | 96 |
| 67) bromodichloromethane | 11.293 | 83 | 434002 | 41.90 | ug/L | | 98 |
| 68) epichlorohydrin | 11.618 | 57 | 185960 | 204.43 | ug/L | | 97 |
| 69) cis-1,3-dichloropropene | 11.755 | 75 | 521286 | 45.98 | ug/L | | 88 |
| 70) 4-methyl-2-pentanone | 11.859 | 58 | 606900 | 168.88 | ug/L | | 100 |
| 71) 3-methyl-1-butanol | 11.865 | 70 | 192191 | 867.07 | ug/L | | 95 |
| 74) toluene | 12.132 | 92 | 719134 | 44.60 | ug/L | | 97 |
| 75) trans-1,3-dichloropropene | 12.321 | 75 | 468150 | 43.80 | ug/L | | 99 |
| 76) ethyl methacrylate | 12.316 | 69 | 433419 | 47.23 | ug/L | | 90 |
| 77) 1,1,2-trichloroethane | 12.536 | 83 | 240952 | 43.46 | ug/L | | 96 |
| 78) 2-hexanone | 12.709 | 58 | 573213 | 169.93 | ug/L | | 93 |
| 79) tetrachloroethene | 12.688 | 166 | 1064502 | 132.62 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 12.719 | 76 | 455471 | 42.82 | ug/L | | 99 |
| 81) butyl acetate | 12.788 | 56 | 256915 | 44.33 | ug/L | | 98 |
| 82) dibromochloromethane | 12.961 | 129 | 338416 | 41.83 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.113 | 107 | 292094 | 42.55 | ug/L | | 94 |
| 84) n-butyl ether | 13.558 | 57 | 1383710 | 43.31 | ug/L | | 95 |
| 85) chlorobenzene | 13.595 | 112 | 788936 | 44.87 | ug/L | | 96 |
| 86) 1,1,1,2-tetrachloroethane | 13.658 | 131 | 303416 | 42.90 | ug/L | | 96 |
| 87) ethylbenzene | 13.658 | 91 | 1309043 | 43.30 | ug/L | | 95 |
| 88) m,p-xylene | 13.778 | 106 | 973858 | 82.87 | ug/L | | 90 |
| 89) o-xylene | 14.177 | 91 | 1052341 | 42.65 | ug/L | | 96 |
| 90) styrene | 14.187 | 104 | 798480 | 41.76 | ug/L | | 98 |
| 91) n-amyl acetate | 14.224 | 70 | 203943 | 40.87 | ug/L | | 90 |
| 92) bromoform | 14.408 | 173 | 240398 | 41.32 | ug/L | | 97 |
| 93) butyl acrylate | 14.014 | 55 | 746054 | 43.83 | ug/L | | 100 |
| 94) isopropylbenzene | 14.523 | 105 | 1226244 | 41.67 | ug/L | | 99 |
| 95) cis-1,4-dichloro-2-butene | 14.560 | 88 | 81079 | 25.60 | ug/L | | 94 |
| 98) bromobenzene | 14.900 | 156 | 350415 | 43.33 | ug/L | | 98 |
| 99) 1,1,2,2-tetrachloroethane | 14.801 | 83 | 363638 | 42.35 | ug/L | | 97 |
| 100) trans-1,4-dichloro-2-b... | 14.832 | 53 | 74596 | 26.09 | ug/L | | 92 |
| 101) 1,2,3-trichloropropane | 14.885 | 110 | 87728 | 39.70 | ug/L | | 90 |
| 102) n-propylbenzene | 14.937 | 91 | 1491383 | 45.99 | ug/L | | 97 |
| 103) 2-chlorotoluene | 15.068 | 126 | 310706 | 44.02 | ug/L | | 90 |
| 104) 4-chlorotoluene | 15.178 | 91 | 935018 | 45.33 | ug/L | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220401.d
Acq On : 29 Sep 2022 2:37 pm
Operator : nicoleh
Sample : jd50917-15msd Inst : GCMS2A
Misc : MS62503,V2A9581,5,,,,5
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 29 15:05:03 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

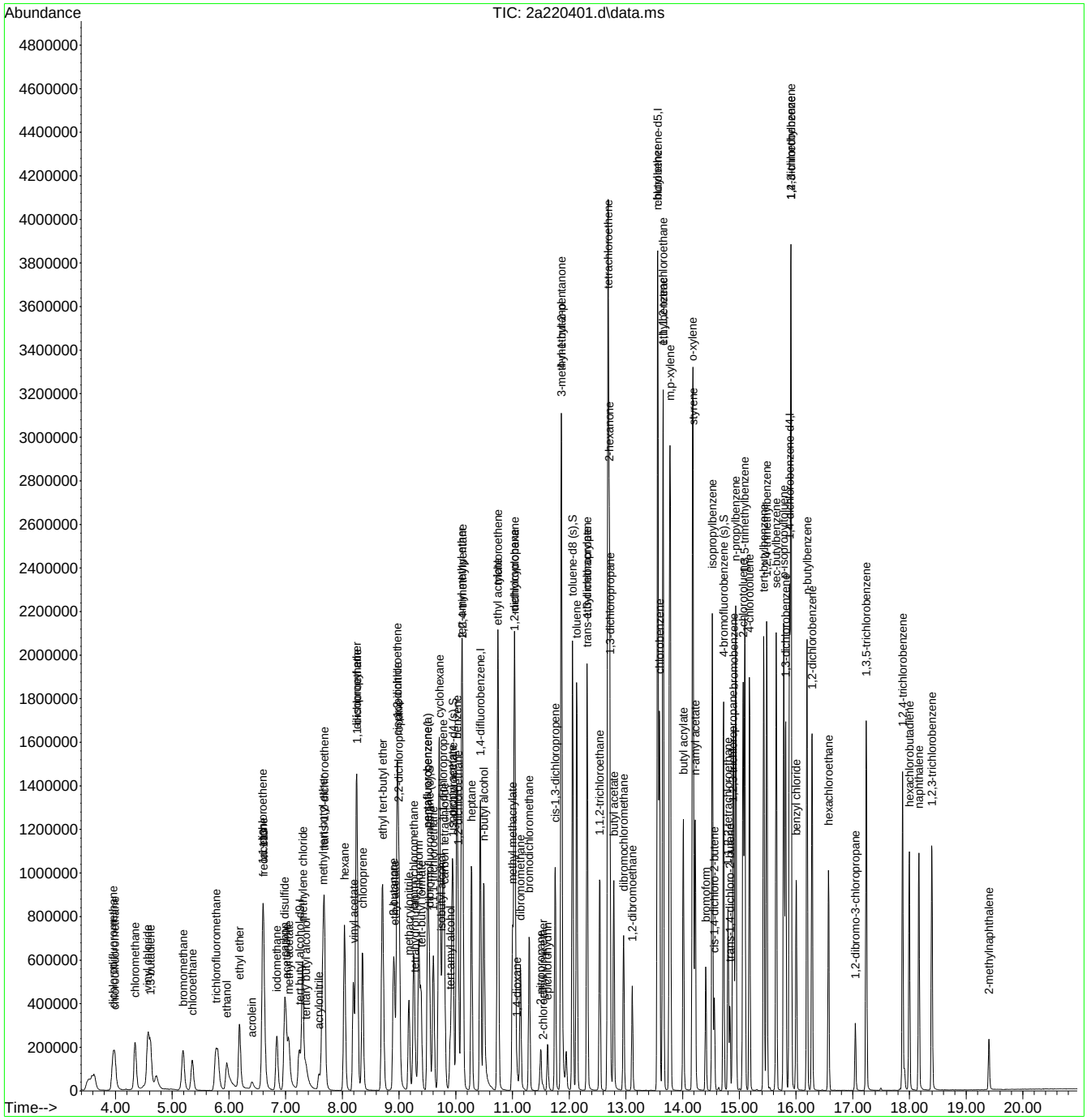
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 105) 1,3,5-trimethylbenzene | 15.094 | 105 | 1012911 | 44.96 | ug/L | 99 |
| 106) tert-butylbenzene | 15.430 | 119 | 864608 | 44.30 | ug/L | 100 |
| 107) 1,2,4-trimethylbenzene | 15.482 | 105 | 1026497 | 44.74 | ug/L | 98 |
| 108) sec-butylbenzene | 15.650 | 105 | 1274510 | 43.80 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 15.818 | 146 | 615224 | 42.68 | ug/L | 98 |
| 110) p-isopropyltoluene | 15.781 | 119 | 1092907 | 44.04 | ug/L | 98 |
| 111) benzyl chloride | 16.001 | 91 | 596717 | 42.23 | ug/L | 98 |
| 112) 1,2,3-trimethylbenzene | 15.912 | 105 | 1030495 | 43.55 | ug/L | 96 |
| 113) 1,4-dichlorobenzene | 15.912 | 146 | 618204 | 41.24 | ug/L | 97 |
| 114) 1,2-dichlorobenzene | 16.285 | 146 | 596929 | 42.36 | ug/L | 98 |
| 115) n-butylbenzene | 16.195 | 92 | 561544 | 42.55 | ug/L | 94 |
| 116) 1,2-dibromo-3-chloropr... | 17.045 | 157 | 73419 | 39.38 | ug/L | 97 |
| 117) 1,3,5-trichlorobenzene | 17.239 | 180 | 487678 | 44.29 | ug/L | 99 |
| 118) 1,2,4-trichlorobenzene | 17.878 | 180 | 413207 | 43.63 | ug/L | 99 |
| 119) hexachlorobutadiene | 17.999 | 225 | 219781 | 45.10 | ug/L | 97 |
| 120) naphthalene | 18.167 | 128 | 769835 | 34.12 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 18.398 | 180 | 345609 | 38.76 | ug/L | 96 |
| 122) hexachloroethane | 16.573 | 201 | 158934 | 39.12 | ug/L | 100 |
| 123) 2-methylnaphthalene | 19.404 | 142 | 112564 | 9.79 | ug/L | 95 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220401.d
Acq On : 29 Sep 2022 2:37 pm
Operator : nicoleh
Sample : jd50917-15msd Inst : GCMS2A
Misc : MS62503,V2A9581,5,,,,5
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 29 15:05:03 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200596.d
Acq On : 29 Sep 2022 4:22 pm
Operator : taylors
Sample : jd52594-1ms Inst : ACC-VOA-MSX
Misc : MS62564,V1X8637,5,,,,4
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 30 07:05:26 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.439 | 65 | 410176 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.507 | 168 | 439969 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 3.998 | 114 | 610638 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.074 | 117 | 571251 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 282949 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.507 | 113 | 198199 | 47.75 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.50% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.726 | 65 | 224443 | 48.09 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 96.18% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 682296 | 49.93 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.86% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 242112 | 49.29 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.58% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 1.938 | 45 | 194470 | 4957.65 | ug/L | 99 |
| 3) tertiary butyl alcohol | 2.488 | 59 | 141463 | 227.95 | ug/L | 100 |
| 4) 1,4-dioxane | 4.377 | 88 | 61294 | 1242.57 | ug/L | 93 |
| 6) chlorodifluoromethane | 1.249 | 51 | 150647 | 40.15 | ug/L | 98 |
| 7) dichlorodifluoromethane | 1.233 | 85 | 148438 | 42.13 | ug/L | 99 |
| 8) chloromethane | 1.361 | 50 | 125588 | 34.15 | ug/L | 99 |
| 9) vinyl chloride | 1.425 | 62 | 141539 | 36.46 | ug/L | 100 |
| 10) bromomethane | 1.634 | 96 | 13703 | 25.45 | ug/L | 97 |
| 11) chloroethane | 1.698 | 64 | 54287 | 31.57 | ug/L | 98 |
| 12) trichlorofluoromethane | 1.852 | 101 | 205131 | 40.35 | ug/L | 99 |
| 13) 1,3-butadiene | 1.452 | 54 | 161681 | 52.15 | ug/L | 98 |
| 14) ethyl ether | 2.013 | 74 | 57547 | 44.51 | ug/L | 89 |
| 15) acrolein | 2.103 | 56 | 19193 | 26.24 | ug/L | 94 |
| 16) 1,1-dichloroethene | 2.167 | 96 | 109818 | 44.71 | ug/L | 97 |
| 17) freon 113 | 2.162 | 101 | 133166 | 44.46 | ug/L | 98 |
| 18) acetone | 2.178 | 58 | 71508 | 171.46 | ug/L | 99 |
| 19) acetonitrile | 2.349 | 41 | 258186 | 447.50 | ug/L | 98 |
| 20) iodomethane | 2.263 | 142 | 52905 | 46.95 | ug/L | 98 |
| 21) carbon disulfide | 2.311 | 76 | 276148 | 44.74 | ug/L | 100 |
| 22) methylene chloride | 2.456 | 84 | 103574 | 43.50 | ug/L | 97 |
| 23) methyl acetate | 2.359 | 43 | 151493 | 44.72 | ug/L | 99 |
| 24) methyl tert butyl ether | 2.600 | 73 | 314720 | 44.37 | ug/L | 98 |
| 25) acrylonitrile | 2.584 | 53 | 48134 | 30.61 | ug/L | 99 |
| 26) trans-1,2-dichloroethene | 2.616 | 96 | 117239 | 44.09 | ug/L | 100 |
| 27) hexane | 2.770 | 57 | 191150 | 45.56 | ug/L | 99 |
| 28) di-isopropyl ether | 2.872 | 45 | 401603 | 45.42 | ug/L | 100 |
| 29) 2-butanone | 3.192 | 72 | 88534 | 191.98 | ug/L | 92 |
| 30) 1,1-dichloroethane | 2.872 | 63 | 203714 | 44.16 | ug/L | 99 |
| 31) chloroprene | 2.914 | 53 | 199637 | 45.74 | ug/L | 99 |
| 32) vinyl acetate | 2.856 | 86 | 24835 | 48.47 | ug/L # | 93 |
| 33) ethyl tert-butyl ether | 3.085 | 59 | 358677 | 45.42 | ug/L | 99 |
| 34) ethyl acetate | 3.203 | 45 | 31153 | 44.74 | ug/L | 99 |
| 35) 2,2-dichloropropane | 3.219 | 77 | 179168 | 46.79 | ug/L | 99 |
| 36) cis-1,2-dichloroethene | 3.213 | 96 | 127403 | 44.39 | ug/L | 96 |
| 37) methyl acrylate | 3.240 | 55 | 206077 | 47.49 | ug/L | 99 |
| 38) propionitrile | 3.235 | 54 | 305676 | 465.78 | ug/L | 90 |
| 39) tert-butyl formate | 3.427 | 59 | 100335 | 58.25 | ug/L | 99 |
| 40) bromochloromethane | 3.357 | 128 | 62977 | 43.02 | ug/L | 94 |
| 41) tetrahydrofuran | 3.363 | 42 | 66315 | 45.10 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200596.d
Acq On : 29 Sep 2022 4:22 pm
Operator : taylors
Sample : jd52594-1ms Inst : ACC-VOA-MSX
Misc : MS62564,V1X8637,5,,,,4
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 30 07:05:26 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) chloroform | 3.405 | 83 | 199741 | 41.99 | ug/L | | 98 |
| 44) methacrylonitrile | 3.325 | 67 | 65957 | 48.10 | ug/L | | 99 |
| 45) 1,1,1-trichloroethane | 3.528 | 97 | 198129 | 43.56 | ug/L | | 99 |
| 46) cyclohexane | 3.576 | 84 | 143830 | 34.59 | ug/L | | 97 |
| 47) tert amyl alcohol | 3.715 | 55 | 56602 | 241.98 | ug/L | | 95 |
| 48) 1,1-dichloropropene | 3.619 | 75 | 167279 | 44.76 | ug/L | | 98 |
| 49) isobutyl alcohol | 3.806 | 42 | 25346 | 430.29 | ug/L | | 99 |
| 50) carbon tetrachloride | 3.624 | 117 | 178297 | 44.38 | ug/L | | 99 |
| 51) isopropyl acetate | 3.736 | 87 | 32859 | 51.38 | ug/L | # | 94 |
| 54) iso-octane | 3.806 | 57 | 393687 | 46.47 | ug/L | | 100 |
| 55) epichlorohydrin | 4.718 | 57 | 110627 | 260.56 | ug/L | | 99 |
| 56) n-butyl alcohol | 4.057 | 56 | 370046 | 2715.98 | ug/L | | 99 |
| 57) benzene | 3.747 | 78 | 2059002 | 200.99 | ug/L | | 100 |
| 58) tert-amyl methyl ether | 3.811 | 73 | 325306 | 48.13 | ug/L | | 99 |
| 59) heptane | 3.907 | 57 | 78327 | 51.28 | ug/L | | 94 |
| 60) 1,2-dichloroethane | 3.774 | 62 | 179739 | 46.52 | ug/L | | 99 |
| 61) trichloroethene | 4.163 | 130 | 148330 | 46.50 | ug/L | | 96 |
| 62) ethyl acrylate | 4.185 | 55 | 211982 | 50.83 | ug/L | | 99 |
| 63) 2-nitropropane | 4.644 | 41 | 52602 | 51.27 | ug/L | | 99 |
| 64) 2-chloroethyl vinyl ether | 4.676 | 63 | 465316 | 262.18 | ug/L | | 99 |
| 65) methyl methacrylate | 4.345 | 100 | 41829 | 50.37 | ug/L | # | 69 |
| 66) 1,2-dichloropropane | 4.334 | 76 | 47248 | 47.18 | ug/L | | 94 |
| 67) dibromomethane | 4.398 | 93 | 75492 | 43.54 | ug/L | | 94 |
| 68) methylcyclohexane | 4.323 | 83 | 200962 | 46.80 | ug/L | | 99 |
| 69) bromodichloromethane | 4.500 | 83 | 139794 | 47.27 | ug/L | | 100 |
| 70) cis-1,3-dichloropropene | 4.798 | 75 | 170414 | 49.73 | ug/L | | 98 |
| 71) 4-methyl-2-pentanone | 4.889 | 58 | 287201 | 204.68 | ug/L | | 98 |
| 72) 3-methyl-1-butanol | 4.910 | 70 | 123310 | 1133.30 | ug/L | | 98 |
| 75) toluene | 5.044 | 92 | 325921 | 52.10 | ug/L | | 99 |
| 76) trans-1,3-dichloropropene | 5.193 | 75 | 155771 | 49.80 | ug/L | | 99 |
| 77) ethyl methacrylate | 5.215 | 69 | 155872 | 49.49 | ug/L | | 99 |
| 78) 1,1,2-trichloroethane | 5.343 | 83 | 89320 | 47.14 | ug/L | | 97 |
| 79) tetrachloroethene | 5.418 | 164 | 119785 | 47.74 | ug/L | | 96 |
| 80) 1,3-dichloropropane | 5.466 | 76 | 164837 | 45.41 | ug/L | | 100 |
| 81) 2-hexanone | 5.487 | 58 | 292590 | 198.78 | ug/L | | 100 |
| 82) butyl acetate | 5.562 | 56 | 98979 | 47.30 | ug/L | | 100 |
| 83) dibromochloromethane | 5.631 | 129 | 124578 | 50.03 | ug/L | | 100 |
| 84) 1,2-dibromoethane | 5.727 | 107 | 121901 | 48.22 | ug/L | | 95 |
| 85) n-butyl ether | 6.149 | 57 | 478516 | 47.22 | ug/L | | 99 |
| 86) chlorobenzene | 6.095 | 112 | 331205 | 46.67 | ug/L | | 99 |
| 87) 1,1,1,2-tetrachloroethane | 6.159 | 131 | 121886 | 49.95 | ug/L | | 98 |
| 88) ethylbenzene | 6.165 | 91 | 841727 | 70.22 | ug/L | | 99 |
| 89) m,p-xylene | 6.266 | 106 | 534425 | 113.29 | ug/L | | 100 |
| 90) o-xylene | 6.570 | 91 | 587101 | 65.53 | ug/L | | 100 |
| 91) styrene | 6.586 | 104 | 357620 | 47.04 | ug/L | | 99 |
| 92) butyl acrylate | 6.512 | 55 | 251175 | 48.88 | ug/L | | 98 |
| 93) n-amyl acetate | 6.688 | 70 | 83760 | 49.00 | ug/L | | 97 |
| 94) bromoform | 6.736 | 173 | 86735 | 52.46 | ug/L | | 97 |
| 95) isopropylbenzene | 6.864 | 105 | 567616 | 48.60 | ug/L | | 99 |
| 96) cis-1,4-dichloro-2-butene | 6.907 | 88 | 35671 | 31.99 | ug/L | | 97 |
| 99) bromobenzene | 7.120 | 156 | 147705 | 47.56 | ug/L | | 94 |
| 100) 1,1,2,2-tetrachloroethane | 7.104 | 83 | 160536 | 52.19 | ug/L | | 98 |
| 101) trans-1,4-dichloro-2-b... | 7.131 | 53 | 34932 | 39.03 | ug/L | | 88 |
| 102) 1,2,3-trichloropropane | 7.152 | 110 | 51170 | 50.39 | ug/L | | 94 |
| 103) n-propylbenzene | 7.189 | 91 | 619791 | 48.25 | ug/L | | 99 |
| 104) 2-chlorotoluene | 7.264 | 126 | 138093 | 48.41 | ug/L | | 96 |
| 105) 4-chlorotoluene | 7.360 | 91 | 351599 | 46.99 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200596.d
Acq On : 29 Sep 2022 4:22 pm
Operator : taylors
Sample : jd52594-1ms Inst : ACC-VOA-MSX
Misc : MS62564,V1X8637,5,,,,4
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 30 07:05:26 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

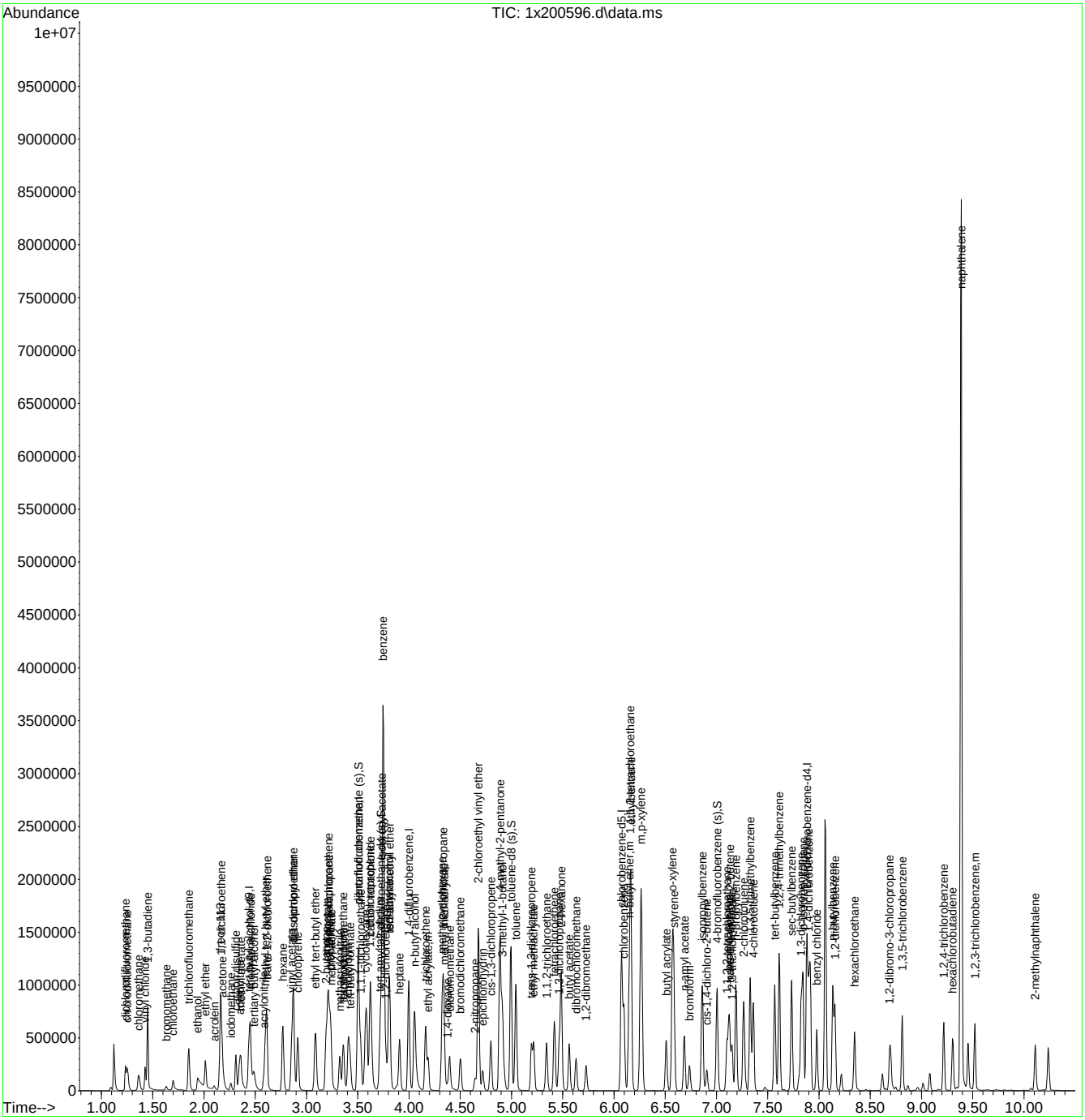
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) 1,3,5-trimethylbenzene | 7.328 | 105 | 447483 | 53.36 | ug/L | 99 |
| 107) tert-butylbenzene | 7.568 | 119 | 389244 | 47.71 | ug/L | 98 |
| 108) 1,2,4-trimethylbenzene | 7.611 | 105 | 537069 | 63.23 | ug/L | 98 |
| 109) sec-butylbenzene | 7.734 | 105 | 549263 | 48.96 | ug/L | 99 |
| 110) 1,3-dichlorobenzene | 7.824 | 146 | 265345 | 47.74 | ug/L | 98 |
| 111) p-isopropyltoluene | 7.846 | 119 | 479077 | 50.37 | ug/L | 100 |
| 112) 1,4-dichlorobenzene | 7.899 | 146 | 269785 | 47.09 | ug/L | 100 |
| 113) 1,2-dichlorobenzene | 8.155 | 146 | 249569 | 48.02 | ug/L | 99 |
| 114) benzyl chloride | 7.979 | 91 | 276927 | 60.25 | ug/L | 98 |
| 115) n-butylbenzene | 8.134 | 92 | 214854 | 51.35 | ug/L | 98 |
| 116) 1,2-dibromo-3-chloropr... | 8.689 | 157 | 47758 | 51.84 | ug/L | 98 |
| 117) 1,3,5-trichlorobenzene | 8.812 | 180 | 159756 | 47.84 | ug/L | 98 |
| 118) hexachlorobutadiene | 9.303 | 225 | 59419 | 49.91 | ug/L | 99 |
| 119) naphthalene | 9.388 | 128 | 4649239 | 425.48 | ug/L | 98 |
| 120) 1,2,4-trichlorobenzene | 9.217 | 180 | 141640 | 48.69 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 9.522 | 180 | 138804 | 48.97 | ug/L | 99 |
| 122) hexachloroethane | 8.347 | 201 | 55520 | 44.75 | ug/L | 93 |
| 123) 2-methylnaphthalene | 10.109 | 142 | 168279 | 31.53 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200596.d
Acq On : 29 Sep 2022 4:22 pm
Operator : taylors
Sample : jd52594-1ms Inst : ACC-VOA-MSX
Misc : MS62564,V1X8637,5,,,,4
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 30 07:05:26 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200597.d
Acq On : 29 Sep 2022 4:45 pm
Operator : taylors
Sample : jd52594-1msd Inst : ACC-VOA-MSX
Misc : MS62564,V1X8637,5,,,,4
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 30 07:05:32 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.445 | 65 | 398841 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.507 | 168 | 440207 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 3.998 | 114 | 602989 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.074 | 117 | 564501 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 279793 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.507 | 113 | 194167 | 46.76 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.52% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.726 | 65 | 221938 | 48.15 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 96.30% | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 676344 | 50.09 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.18% | | | |
| 98) 4-bromofluorobenzene (s) | 7.008 | 95 | 239828 | 49.37 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.74% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 1.943 | 45 | 192438 | 5045.27 | ug/L | 96 |
| 3) tertiary butyl alcohol | 2.493 | 59 | 145155 | 240.55 | ug/L | 99 |
| 4) 1,4-dioxane | 4.377 | 88 | 62127 | 1295.25 | ug/L | 93 |
| 6) chlorodifluoromethane | 1.255 | 51 | 148569 | 39.58 | ug/L | 100 |
| 7) dichlorodifluoromethane | 1.239 | 85 | 146203 | 41.47 | ug/L | 99 |
| 8) chloromethane | 1.367 | 50 | 123087 | 33.45 | ug/L | 99 |
| 9) vinyl chloride | 1.431 | 62 | 136587 | 35.16 | ug/L | 100 |
| 10) bromomethane | 1.639 | 96 | 16983 | 31.52 | ug/L | 99 |
| 11) chloroethane | 1.703 | 64 | 53197 | 30.92 | ug/L | 99 |
| 12) trichlorofluoromethane | 1.858 | 101 | 201573 | 39.63 | ug/L | 99 |
| 13) 1,3-butadiene | 1.458 | 54 | 156091 | 50.32 | ug/L | 99 |
| 14) ethyl ether | 2.018 | 74 | 58189 | 44.98 | ug/L | 91 |
| 15) acrolein | 2.103 | 56 | 18897 | 25.82 | ug/L | 95 |
| 16) 1,1-dichloroethene | 2.167 | 96 | 108107 | 43.99 | ug/L | 97 |
| 17) freon 113 | 2.167 | 101 | 131722 | 43.95 | ug/L | 99 |
| 18) acetone | 2.183 | 58 | 71847 | 172.18 | ug/L | 96 |
| 19) acetonitrile | 2.349 | 41 | 261021 | 452.17 | ug/L | 98 |
| 20) iodomethane | 2.269 | 142 | 78903 | 69.98 | ug/L | 99 |
| 21) carbon disulfide | 2.317 | 76 | 274496 | 44.45 | ug/L | 98 |
| 22) methylene chloride | 2.456 | 84 | 105989 | 44.49 | ug/L | 96 |
| 23) methyl acetate | 2.365 | 43 | 157642 | 46.51 | ug/L | 98 |
| 24) methyl tert butyl ether | 2.605 | 73 | 324734 | 45.76 | ug/L | 100 |
| 25) acrylonitrile | 2.589 | 53 | 48600 | 30.89 | ug/L | 98 |
| 26) trans-1,2-dichloroethene | 2.616 | 96 | 115517 | 43.42 | ug/L | 93 |
| 27) hexane | 2.770 | 57 | 186966 | 44.54 | ug/L | 99 |
| 28) di-isopropyl ether | 2.877 | 45 | 408032 | 46.12 | ug/L | 98 |
| 29) 2-butanone | 3.192 | 72 | 89873 | 194.78 | ug/L # | 88 |
| 30) 1,1-dichloroethane | 2.877 | 63 | 203608 | 44.11 | ug/L | 99 |
| 31) chloroprene | 2.920 | 53 | 198431 | 45.44 | ug/L | 98 |
| 32) vinyl acetate | 2.856 | 86 | 26374 | 51.45 | ug/L # | 93 |
| 33) ethyl tert-butyl ether | 3.091 | 59 | 371478 | 47.02 | ug/L | 100 |
| 34) ethyl acetate | 3.208 | 45 | 34741 | 49.87 | ug/L | 98 |
| 35) 2,2-dichloropropane | 3.224 | 77 | 176752 | 46.14 | ug/L | 99 |
| 36) cis-1,2-dichloroethene | 3.213 | 96 | 128691 | 44.81 | ug/L | 95 |
| 37) methyl acrylate | 3.240 | 55 | 211755 | 48.77 | ug/L | 97 |
| 38) propionitrile | 3.235 | 54 | 309995 | 472.11 | ug/L | 74 |
| 39) tert-butyl formate | 3.427 | 59 | 105065 | 60.96 | ug/L | 97 |
| 40) bromochloromethane | 3.363 | 128 | 64536 | 44.06 | ug/L | 98 |
| 41) tetrahydrofuran | 3.368 | 42 | 67455 | 45.85 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200597.d
Acq On : 29 Sep 2022 4:45 pm
Operator : taylors
Sample : jd52594-1msd Inst : ACC-VOA-MSX
Misc : MS62564,V1X8637,5,,,,4
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 30 07:05:32 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) chloroform | 3.411 | 83 | 204442 | 42.96 | ug/L | | 99 |
| 44) methacrylonitrile | 3.325 | 67 | 67210 | 48.98 | ug/L | | 95 |
| 45) 1,1,1-trichloroethane | 3.528 | 97 | 198133 | 43.54 | ug/L | | 96 |
| 46) cyclohexane | 3.582 | 84 | 142449 | 34.24 | ug/L | # | 72 |
| 47) tert amyl alcohol | 3.715 | 55 | 57450 | 245.48 | ug/L | | 96 |
| 48) 1,1-dichloropropene | 3.624 | 75 | 165226 | 44.18 | ug/L | | 100 |
| 49) isobutyl alcohol | 3.811 | 42 | 24895 | 422.40 | ug/L | # | 96 |
| 50) carbon tetrachloride | 3.630 | 117 | 179222 | 44.58 | ug/L | | 99 |
| 51) isopropyl acetate | 3.736 | 87 | 33395 | 52.19 | ug/L | # | 89 |
| 54) iso-octane | 3.811 | 57 | 381811 | 45.64 | ug/L | | 100 |
| 55) epichlorohydrin | 4.724 | 57 | 110165 | 262.76 | ug/L | | 98 |
| 56) n-butyl alcohol | 4.057 | 56 | 379107 | 2817.78 | ug/L | | 99 |
| 57) benzene | 3.752 | 78 | 2072041 | 204.83 | ug/L | | 99 |
| 58) tert-amyl methyl ether | 3.811 | 73 | 336659 | 50.44 | ug/L | | 100 |
| 59) heptane | 3.913 | 57 | 76791 | 50.91 | ug/L | | 97 |
| 60) 1,2-dichloroethane | 3.774 | 62 | 184534 | 48.37 | ug/L | | 99 |
| 61) trichloroethene | 4.163 | 130 | 147378 | 46.79 | ug/L | | 96 |
| 62) ethyl acrylate | 4.190 | 55 | 216277 | 52.52 | ug/L | | 100 |
| 63) 2-nitropropane | 4.649 | 41 | 52928 | 52.24 | ug/L | | 99 |
| 64) 2-chloroethyl vinyl ether | 4.681 | 63 | 479148 | 273.40 | ug/L | | 99 |
| 65) methyl methacrylate | 4.345 | 100 | 43203 | 52.69 | ug/L | # | 81 |
| 66) 1,2-dichloropropane | 4.340 | 76 | 47401 | 47.94 | ug/L | | 96 |
| 67) dibromomethane | 4.398 | 93 | 78297 | 45.73 | ug/L | | 97 |
| 68) methylcyclohexane | 4.329 | 83 | 196633 | 46.37 | ug/L | | 99 |
| 69) bromodichloromethane | 4.505 | 83 | 143971 | 49.30 | ug/L | | 99 |
| 70) cis-1,3-dichloropropene | 4.798 | 75 | 175262 | 51.80 | ug/L | | 97 |
| 71) 4-methyl-2-pentanone | 4.889 | 58 | 294091 | 212.25 | ug/L | | 99 |
| 72) 3-methyl-1-butanol | 4.911 | 70 | 124722 | 1160.81 | ug/L | | 99 |
| 75) toluene | 5.044 | 92 | 325744 | 52.70 | ug/L | | 99 |
| 76) trans-1,3-dichloropropene | 5.199 | 75 | 161371 | 52.20 | ug/L | | 98 |
| 77) ethyl methacrylate | 5.220 | 69 | 160185 | 51.46 | ug/L | | 99 |
| 78) 1,1,2-trichloroethane | 5.343 | 83 | 91088 | 48.65 | ug/L | | 99 |
| 79) tetrachloroethene | 5.423 | 164 | 118571 | 47.83 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 5.466 | 76 | 168209 | 46.90 | ug/L | | 97 |
| 81) 2-hexanone | 5.487 | 58 | 300719 | 206.74 | ug/L | | 99 |
| 82) butyl acetate | 5.567 | 56 | 102259 | 49.45 | ug/L | | 99 |
| 83) dibromochloromethane | 5.631 | 129 | 127726 | 51.91 | ug/L | | 99 |
| 84) 1,2-dibromoethane | 5.727 | 107 | 125291 | 50.15 | ug/L | | 96 |
| 85) n-butyl ether | 6.149 | 57 | 478241 | 47.76 | ug/L | | 100 |
| 86) chlorobenzene | 6.101 | 112 | 333672 | 47.58 | ug/L | | 99 |
| 87) 1,1,1,2-tetrachloroethane | 6.159 | 131 | 124879 | 51.79 | ug/L | | 98 |
| 88) ethylbenzene | 6.165 | 91 | 842394 | 71.12 | ug/L | | 100 |
| 89) m,p-xylene | 6.266 | 106 | 533996 | 114.55 | ug/L | | 99 |
| 90) o-xylene | 6.570 | 91 | 590582 | 66.70 | ug/L | | 100 |
| 91) styrene | 6.586 | 104 | 364379 | 48.50 | ug/L | | 100 |
| 92) butyl acrylate | 6.512 | 55 | 261307 | 51.46 | ug/L | | 99 |
| 93) n-amyl acetate | 6.688 | 70 | 86489 | 51.20 | ug/L | | 99 |
| 94) bromoform | 6.736 | 173 | 88811 | 54.36 | ug/L | | 98 |
| 95) isopropylbenzene | 6.864 | 105 | 567638 | 49.18 | ug/L | | 99 |
| 96) cis-1,4-dichloro-2-butene | 6.907 | 88 | 38033 | 34.29 | ug/L | | 97 |
| 99) bromobenzene | 7.125 | 156 | 150386 | 48.96 | ug/L | | 98 |
| 100) 1,1,2,2-tetrachloroethane | 7.104 | 83 | 164923 | 54.22 | ug/L | | 100 |
| 101) trans-1,4-dichloro-2-b... | 7.131 | 53 | 36523 | 41.27 | ug/L | | 88 |
| 102) 1,2,3-trichloropropane | 7.152 | 110 | 51954 | 51.74 | ug/L | | 95 |
| 103) n-propylbenzene | 7.189 | 91 | 610813 | 48.09 | ug/L | | 100 |
| 104) 2-chlorotoluene | 7.269 | 126 | 137330 | 48.69 | ug/L | | 98 |
| 105) 4-chlorotoluene | 7.360 | 91 | 356690 | 48.21 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200597.d
Acq On : 29 Sep 2022 4:45 pm
Operator : taylors
Sample : jd52594-1msd Inst : ACC-VOA-MSX
Misc : MS62564,V1X8637,5,,,,4
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 30 07:05:32 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

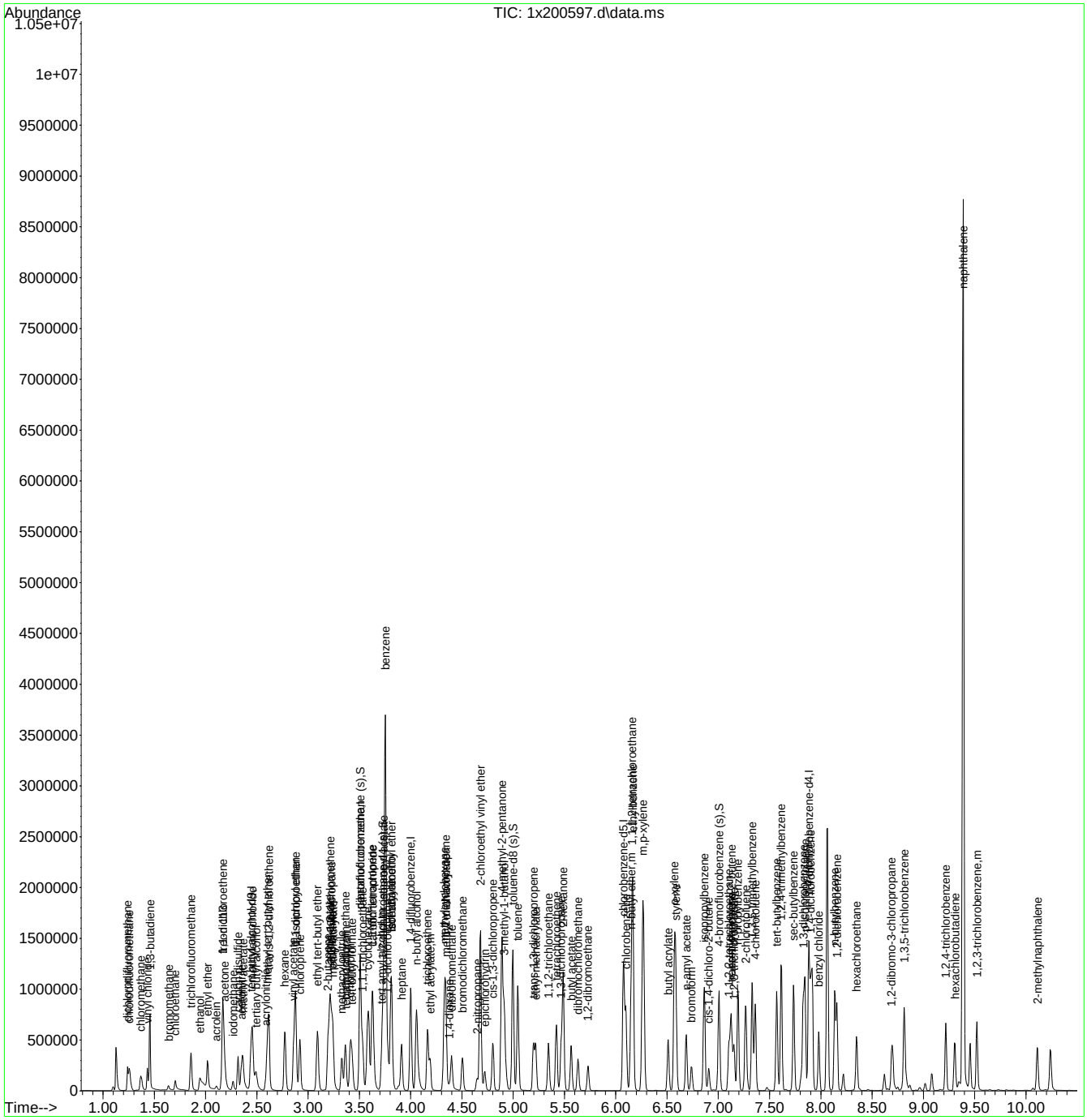
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) 1,3,5-trimethylbenzene | 7.328 | 105 | 445688 | 53.75 | ug/L | 99 |
| 107) tert-butylbenzene | 7.568 | 119 | 384870 | 47.70 | ug/L | 99 |
| 108) 1,2,4-trimethylbenzene | 7.611 | 105 | 536452 | 63.87 | ug/L | 98 |
| 109) sec-butylbenzene | 7.734 | 105 | 547953 | 49.39 | ug/L | 99 |
| 110) 1,3-dichlorobenzene | 7.830 | 146 | 268490 | 48.85 | ug/L | 99 |
| 111) p-isopropyltoluene | 7.846 | 119 | 474583 | 50.46 | ug/L | 100 |
| 112) 1,4-dichlorobenzene | 7.899 | 146 | 271408 | 47.91 | ug/L | 100 |
| 113) 1,2-dichlorobenzene | 8.155 | 146 | 254144 | 49.45 | ug/L | 99 |
| 114) benzyl chloride | 7.979 | 91 | 280354 | 61.68 | ug/L | 99 |
| 115) n-butylbenzene | 8.134 | 92 | 210171 | 50.80 | ug/L | 100 |
| 116) 1,2-dibromo-3-chloropr... | 8.689 | 157 | 49849 | 54.72 | ug/L | 97 |
| 117) 1,3,5-trichlorobenzene | 8.812 | 180 | 162652 | 49.25 | ug/L | 97 |
| 118) hexachlorobutadiene | 9.308 | 225 | 57594 | 48.93 | ug/L | 97 |
| 119) naphthalene | 9.388 | 128 | 4781158 | 442.49 | ug/L | 97 |
| 120) 1,2,4-trichlorobenzene | 9.217 | 180 | 144773 | 50.33 | ug/L | 100 |
| 121) 1,2,3-trichlorobenzene | 9.522 | 180 | 142391 | 50.81 | ug/L | 99 |
| 122) hexachloroethane | 8.348 | 201 | 55397 | 45.14 | ug/L | 92 |
| 123) 2-methylnaphthalene | 10.114 | 142 | 172420 | 32.67 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200597.d
Acq On : 29 Sep 2022 4:45 pm
Operator : taylors
Sample : jd52594-1msd Inst : ACC-VOA-MSX
Misc : MS62564,V1X8637,5,,,,4
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 30 07:05:32 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93006.d
Acq On : 29 Sep 2022 11:58 pm
Operator : KYLEM
Sample : jd52507-10ms Inst : MS2V
Misc : MS62506,V2V3777,5,,,,100
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Sep 30 09:41:05 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 259728 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 309490 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 428017 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 407218 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 181836 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 153240 | 49.65 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.30% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 154025 | 50.75 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.50% | | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 495015 | 49.39 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.78% | | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 155831 | 48.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.00% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) ethanol | 1.886 | 45 | 502264 | 9520.55 | ug/L | | 99 |
| 3) tertiary butyl alcohol | 2.363 | 59 | 187301 | 231.50 | ug/L | | 100 |
| 4) 1,4-dioxane | 4.103 | 88 | 84406 | 1273.85 | ug/L | | 94 |
| 6) chlorodifluoromethane | 1.293 | 51 | 117469 | 40.64 | ug/L | | 97 |
| 7) dichlorodifluoromethane | 1.283 | 85 | 147531 | 42.66 | ug/L | | 98 |
| 8) chloromethane | 1.398 | 52 | 53194 | 40.75 | ug/L | | 99 |
| 9) vinyl chloride | 1.456 | 62 | 319133 | 75.27 | ug/L | | 98 |
| 10) bromomethane | 1.634 | 96 | 194916 | 66.10 | ug/L | | 96 |
| 11) chloroethane | 1.686 | 64 | 230966 | 90.85 | ug/L | | 97 |
| 12) trichlorofluoromethane | 1.823 | 101 | 503888 | 80.27 | ug/L | | 99 |
| 13) 1,3-butadiene | 1.471 | 54 | 209190 | 53.79 | ug/L | | 99 |
| 14) ethyl ether | 1.954 | 74 | 131704 | 88.79 | ug/L | | 92 |
| 15) acrolein | 2.032 | 56 | 62465 | 94.77 | ug/L | | 97 |
| 16) freon 113 | 2.090 | 151 | 120670 | 48.48 | ug/L | | 97 |
| 17) 1,1-dichloroethene | 2.095 | 61 | 190485 | 50.53 | ug/L | | 98 |
| 18) acetone | 2.095 | 58 | 92093 | 230.75 | ug/L | | 99 |
| 19) acetonitrile | 2.242 | 41 | 306845 | 598.67 | ug/L | | 99 |
| 20) iodomethane | 2.185 | 142 | 122632 | 51.31 | ug/L | | 99 |
| 21) carbon disulfide | 2.232 | 76 | 298611 | 43.36 | ug/L | | 98 |
| 22) methylene chloride | 2.342 | 84 | 132617 | 47.24 | ug/L | | 94 |
| 23) methyl acetate | 2.253 | 74 | 38346 | 53.47 | ug/L | # | 80 |
| 24) methyl tert butyl ether | 2.473 | 73 | 399105 | 52.32 | ug/L | | 99 |
| 25) trans-1,2-dichloroethene | 2.489 | 96 | 133527 | 50.17 | ug/L | | 99 |
| 26) hexane | 2.630 | 56 | 65966 | 44.72 | ug/L | | 94 |
| 27) di-isopropyl ether | 2.714 | 45 | 409290 | 54.29 | ug/L | | 97 |
| 28) ethyl tert-butyl ether | 2.908 | 59 | 387457 | 51.69 | ug/L | | 98 |
| 29) 1,1-dichloroethane | 2.719 | 63 | 236020 | 51.84 | ug/L | | 99 |
| 30) chloroprene | 2.761 | 53 | 174348 | 51.21 | ug/L | | 99 |
| 31) acrylonitrile | 2.452 | 53 | 80451 | 57.42 | ug/L | | 97 |
| 32) vinyl acetate | 2.693 | 86 | 32320 | 52.20 | ug/L | # | 65 |
| 33) ethyl acetate | 3.008 | 45 | 40143 | 60.08 | ug/L | # | 84 |
| 34) 2-butanone | 3.002 | 72 | 133453 | 246.74 | ug/L | # | 87 |
| 35) 2,2-dichloropropane | 3.034 | 77 | 196033 | 48.80 | ug/L | | 96 |
| 36) cis-1,2-dichloroethene | 3.023 | 96 | 473772 | 153.99 | ug/L | | 97 |
| 37) propionitrile | 3.034 | 54 | 398649 | 638.30 | ug/L | | 79 |
| 38) methyl acrylate | 3.044 | 85 | 38910 | 54.25 | ug/L | # | 75 |
| 39) bromochloromethane | 3.160 | 128 | 84783 | 52.71 | ug/L | | 99 |
| 40) tetrahydrofuran | 3.170 | 71 | 33141 | 50.44 | ug/L | | 93 |
| 41) chloroform | 3.202 | 83 | 255806 | 46.44 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93006.d
Acq On : 29 Sep 2022 11:58 pm
Operator : KYLEM
Sample : jd52507-10ms Inst : MS2V
Misc : MS62506,V2V3777,5,,,,100
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Sep 30 09:41:05 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 43) methacrylonitrile | 3.123 | 67 | 83686 | 54.77 | ug/L | | 97 |
| 44) 1,1,1-trichloroethane | 3.317 | 97 | 223833 | 47.90 | ug/L | | 98 |
| 45) cyclohexane | 3.369 | 84 | 152153 | 41.70 | ug/L | | 89 |
| 46) 1,1-dichloropropene | 3.406 | 75 | 190401 | 52.14 | ug/L | | 99 |
| 47) carbon tetrachloride | 3.411 | 119 | 212695 | 49.25 | ug/L | | 98 |
| 48) isobutyl alcohol | 3.406 | 42 | 86254 | 652.59 | ug/L | | 97 |
| 49) tert-amyl alcohol | 3.480 | 55 | 68860 | 254.36 | ug/L | # | 79 |
| 52) n-butyl alcohol | 3.799 | 56 | 470466 | 3078.29 | ug/L | | 96 |
| 53) benzene | 3.527 | 78 | 504322 | 49.11 | ug/L | | 99 |
| 54) tert-amyl methyl ether | 3.574 | 73 | 410460 | 51.02 | ug/L | | 99 |
| 55) iso-octane | 3.579 | 57 | 262223 | 47.83 | ug/L | | 96 |
| 56) heptane | 3.668 | 57 | 47197 | 44.47 | ug/L | | 95 |
| 57) isopropyl acetate | 3.501 | 87 | 43843 | 52.64 | ug/L | # | 81 |
| 58) 1,2-dichloroethane | 3.542 | 62 | 207637 | 48.55 | ug/L | | 100 |
| 59) trichloroethene | 3.909 | 95 | 161783 | 53.21 | ug/L | | 96 |
| 60) ethyl acrylate | 3.920 | 55 | 256060 | 53.58 | ug/L | | 99 |
| 61) 2-nitropropane | 4.355 | 41 | 72800 | 57.40 | ug/L | | 96 |
| 62) 2-chloroethyl vinyl ether | 4.387 | 63 | 258936 | 161.01 | ug/L | | 96 |
| 63) methyl methacrylate | 4.072 | 100 | 54672 | 52.43 | ug/L | # | 82 |
| 64) 1,2-dichloropropane | 4.067 | 63 | 143198 | 53.29 | ug/L | | 96 |
| 65) methylcyclohexane | 4.067 | 83 | 185904 | 49.09 | ug/L | | 99 |
| 66) dibromomethane | 4.124 | 93 | 117033 | 49.78 | ug/L | | 93 |
| 67) bromodichloromethane | 4.224 | 83 | 203620 | 49.26 | ug/L | | 98 |
| 68) epichlorohydrin | 4.429 | 57 | 121567 | 273.33 | ug/L | | 96 |
| 69) cis-1,3-dichloropropene | 4.507 | 75 | 220293 | 51.17 | ug/L | | 99 |
| 70) 4-methyl-2-pentanone | 4.586 | 58 | 387495 | 240.35 | ug/L | | 92 |
| 71) 3-methyl-1-butanol | 4.607 | 70 | 192790 | 1263.27 | ug/L | | 95 |
| 74) toluene | 4.743 | 92 | 322977 | 47.29 | ug/L | | 98 |
| 75) ethyl methacrylate | 4.906 | 69 | 208110 | 52.43 | ug/L | | 98 |
| 76) trans-1,3-dichloropropene | 4.885 | 75 | 204756 | 50.25 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 5.026 | 83 | 122800 | 51.86 | ug/L | | 96 |
| 78) 2-hexanone | 5.163 | 58 | 404068 | 233.03 | ug/L | | 94 |
| 79) tetrachloroethene | 5.110 | 164 | 128425 | 48.48 | ug/L | | 96 |
| 80) 1,3-dichloropropane | 5.142 | 76 | 226136 | 51.81 | ug/L | | 99 |
| 81) butyl acetate | 5.236 | 56 | 117784 | 53.51 | ug/L | | 92 |
| 82) dibromochloromethane | 5.304 | 129 | 183875 | 49.39 | ug/L | | 98 |
| 83) 1,2-dibromoethane | 5.399 | 107 | 168516 | 50.68 | ug/L | | 98 |
| 84) n-butyl ether | 5.807 | 57 | 518505 | 53.17 | ug/L | | 99 |
| 85) chlorobenzene | 5.755 | 112 | 393250 | 47.80 | ug/L | | 99 |
| 86) 1,1,1,2-tetrachloroethane | 5.818 | 131 | 169863 | 52.78 | ug/L | | 99 |
| 87) ethylbenzene | 5.823 | 91 | 645853 | 49.99 | ug/L | | 99 |
| 88) m,p-xylene | 5.918 | 106 | 493239 | 98.46 | ug/L | | 97 |
| 89) o-xylene | 6.216 | 91 | 490986 | 49.57 | ug/L | | 99 |
| 90) styrene | 6.227 | 104 | 412007 | 50.13 | ug/L | | 100 |
| 91) butyl acrylate | 6.154 | 56 | 139486 | 57.15 | ug/L | | 93 |
| 92) n-amyl acetate | 6.327 | 70 | 112908 | 51.83 | ug/L | | 97 |
| 93) bromoform | 6.374 | 173 | 139264 | 50.54 | ug/L | | 99 |
| 94) isopropylbenzene | 6.500 | 105 | 578645 | 49.23 | ug/L | | 99 |
| 95) cis-1,4-dichloro-2-butene | 6.536 | 88 | 34916 | 25.41 | ug/L | | 92 |
| 98) bromobenzene | 6.751 | 156 | 175029 | 47.59 | ug/L | | 98 |
| 99) 1,1,2,2-tetrachloroethane | 6.730 | 83 | 232176 | 51.43 | ug/L | | 99 |
| 100) trans-1,4-dichloro-2-b... | 6.762 | 53 | 30691 | 28.82 | ug/L | | 99 |
| 101) 1,2,3-trichloropropane | 6.777 | 110 | 68069 | 50.71 | ug/L | | 96 |
| 102) n-propylbenzene | 6.825 | 91 | 635473 | 47.89 | ug/L | | 99 |
| 103) 2-chlorotoluene | 6.898 | 126 | 146555 | 48.18 | ug/L | | 94 |
| 104) 4-chlorotoluene | 6.987 | 126 | 147490 | 47.11 | ug/L | | 91 |
| 105) 1,3,5-trimethylbenzene | 6.961 | 105 | 428468 | 48.23 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93006.d
Acq On : 29 Sep 2022 11:58 pm
Operator : KYLEM
Sample : jd52507-10ms Inst : MS2V
Misc : MS62506,V2V3777,5,,,,100
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Sep 30 09:41:05 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

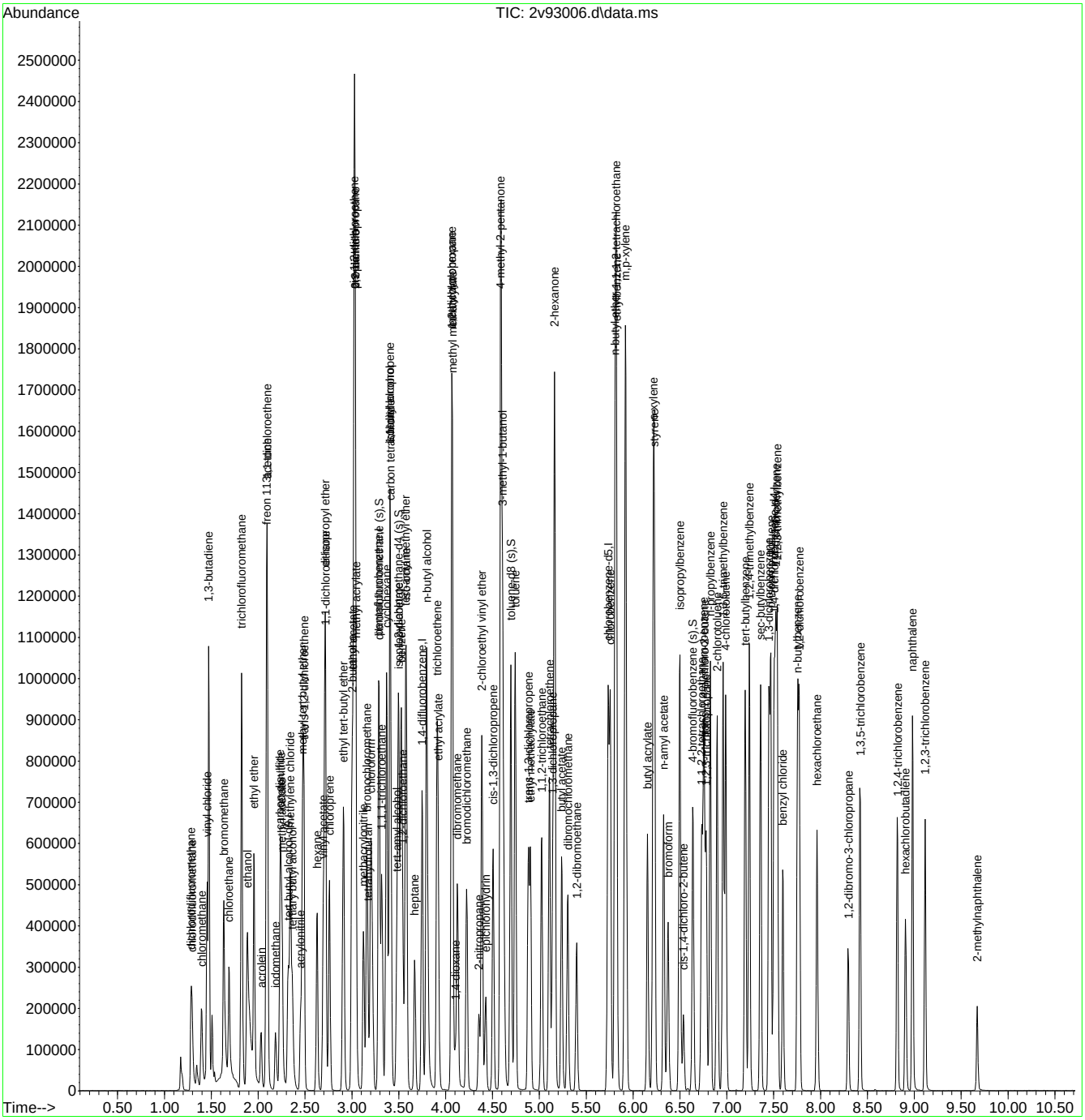
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) tert-butylbenzene | 7.197 | 119 | 368379 | 47.56 | ug/L | 98 |
| 107) 1,2,4-trimethylbenzene | 7.239 | 105 | 436497 | 47.07 | ug/L | 98 |
| 108) sec-butylbenzene | 7.359 | 105 | 510029 | 48.60 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 285547 | 47.10 | ug/L | 98 |
| 110) p-isopropyltoluene | 7.470 | 119 | 429530 | 48.25 | ug/L | 99 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 447307 | 48.24 | ug/L | 98 |
| 112) 1,4-dichlorobenzene | 7.522 | 146 | 293531 | 46.41 | ug/L | 98 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 276120 | 48.32 | ug/L | 99 |
| 114) benzyl chloride | 7.595 | 91 | 265864 | 45.17 | ug/L | 98 |
| 115) n-butylbenzene | 7.753 | 92 | 188699 | 49.84 | ug/L | 96 |
| 116) hexachloroethane | 7.962 | 201 | 64968 | 47.05 | ug/L | 92 |
| 117) 1,2-dibromo-3-chloropr... | 8.298 | 157 | 64895 | 53.64 | ug/L | 91 |
| 118) 1,3,5-trichlorobenzene | 8.424 | 180 | 163782 | 51.06 | ug/L | 97 |
| 119) 1,2,4-trichlorobenzene | 8.822 | 180 | 141430 | 50.29 | ug/L | 97 |
| 120) hexachlorobutadiene | 8.906 | 225 | 48850 | 49.19 | ug/L | 100 |
| 121) naphthalene | 8.979 | 128 | 493124 | 52.17 | ug/L | 100 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 131869 | 52.26 | ug/L | 97 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 73044 | 22.74 | ug/L | 95 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93006.d
Acq On : 29 Sep 2022 11:58 pm
Operator : KYLEM
Sample : jd52507-10ms Inst : MS2V
Misc : MS62506,V2V3777,5,,,,100
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Sep 30 09:41:05 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
MoHui Huang
10/05/22 21:50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93007.d
Acq On : 30 Sep 2022 12:21 am
Operator : KYLEM
Sample : jd52507-10msd Inst : MS2V
Misc : MS62506,V2V3777,5,,,,100
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 07:16:39 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 277794 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 319267 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 439814 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 420026 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 187653 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 158416 | 49.76 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.52% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 159301 | 51.08 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 102.16% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 508970 | 49.23 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.46% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 159832 | 47.70 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.40% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 1.886 | 45 | 499933 | 8860.08 | ug/L | 99 |
| 3) tertiary butyl alcohol | 2.363 | 59 | 195323 | 225.72 | ug/L | 99 |
| 4) 1,4-dioxane | 4.103 | 88 | 84980 | 1199.11 | ug/L | 99 |
| 6) chlorodifluoromethane | 1.293 | 51 | 120338 | 40.35 | ug/L | 98 |
| 7) dichlorodifluoromethane | 1.283 | 85 | 150152 | 42.09 | ug/L | 98 |
| 8) chloromethane | 1.398 | 52 | 53865 | 40.00 | ug/L | 98 |
| 9) vinyl chloride | 1.456 | 62 | 322946 | 73.84 | ug/L | 99 |
| 10) bromomethane | 1.634 | 96 | 203886 | 67.03 | ug/L | 98 |
| 11) chloroethane | 1.692 | 64 | 162715 | 62.04 | ug/L | 99 |
| 12) trichlorofluoromethane | 1.828 | 101 | 497979 | 76.90 | ug/L | 100 |
| 13) 1,3-butadiene | 1.477 | 54 | 202253 | 50.41 | ug/L | 99 |
| 14) ethyl ether | 1.959 | 74 | 134240 | 87.73 | ug/L | 93 |
| 15) acrolein | 2.032 | 56 | 60208 | 88.55 | ug/L | 98 |
| 16) freon 113 | 2.090 | 151 | 119824 | 46.67 | ug/L | 97 |
| 17) 1,1-dichloroethene | 2.095 | 61 | 190623 | 49.02 | ug/L | 99 |
| 18) acetone | 2.101 | 58 | 93207 | 226.39 | ug/L | 96 |
| 19) acetonitrile | 2.242 | 41 | 314546 | 594.90 | ug/L | 97 |
| 20) iodomethane | 2.184 | 142 | 147238 | 58.22 | ug/L | 98 |
| 21) carbon disulfide | 2.237 | 76 | 304753 | 42.90 | ug/L | 99 |
| 22) methylene chloride | 2.347 | 84 | 136810 | 47.24 | ug/L | 95 |
| 23) methyl acetate | 2.258 | 74 | 40038 | 54.12 | ug/L | 90 |
| 24) methyl tert butyl ether | 2.478 | 73 | 416217 | 52.90 | ug/L | 99 |
| 25) trans-1,2-dichloroethene | 2.489 | 96 | 136518 | 49.72 | ug/L | 97 |
| 26) hexane | 2.630 | 56 | 66087 | 43.43 | ug/L | 94 |
| 27) di-isopropyl ether | 2.714 | 45 | 422203 | 54.28 | ug/L | 99 |
| 28) ethyl tert-butyl ether | 2.908 | 59 | 402239 | 52.02 | ug/L | 97 |
| 29) 1,1-dichloroethane | 2.719 | 63 | 242290 | 51.59 | ug/L | 98 |
| 30) chloroprene | 2.761 | 53 | 177635 | 50.58 | ug/L | 99 |
| 31) acrylonitrile | 2.452 | 53 | 84213 | 58.27 | ug/L | 97 |
| 32) vinyl acetate | 2.698 | 86 | 34130 | 53.43 | ug/L # | 63 |
| 33) ethyl acetate | 3.008 | 45 | 38293 | 55.56 | ug/L # | 83 |
| 34) 2-butanone | 3.002 | 72 | 136898 | 245.36 | ug/L # | 89 |
| 35) 2,2-dichloropropane | 3.034 | 77 | 197761 | 47.73 | ug/L | 94 |
| 36) cis-1,2-dichloroethene | 3.023 | 96 | 484706 | 152.72 | ug/L | 99 |
| 37) propionitrile | 3.034 | 54 | 408743 | 634.42 | ug/L | 76 |
| 38) methyl acrylate | 3.044 | 85 | 39846 | 53.85 | ug/L # | 70 |
| 39) bromochloromethane | 3.160 | 128 | 87818 | 52.92 | ug/L | 98 |
| 40) tetrahydrofuran | 3.170 | 71 | 34400 | 50.75 | ug/L | 99 |
| 41) chloroform | 3.202 | 83 | 263763 | 46.42 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93007.d
Acq On : 30 Sep 2022 12:21 am
Operator : KYLEM
Sample : jd52507-10msd Inst : MS2V
Misc : MS62506,V2V3777,5,,,,100
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 07:16:39 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 43) methacrylonitrile | 3.123 | 67 | 85007 | 53.93 | ug/L | | 96 |
| 44) 1,1,1-trichloroethane | 3.317 | 97 | 230733 | 47.87 | ug/L | | 97 |
| 45) cyclohexane | 3.369 | 84 | 157774 | 41.91 | ug/L | | 95 |
| 46) 1,1-dichloropropene | 3.406 | 75 | 192543 | 51.11 | ug/L | | 98 |
| 47) carbon tetrachloride | 3.411 | 119 | 216037 | 48.50 | ug/L | | 96 |
| 48) isobutyl alcohol | 3.406 | 42 | 89831 | 658.84 | ug/L | | 97 |
| 49) tert-amyl alcohol | 3.485 | 55 | 68804 | 246.37 | ug/L | # | 73 |
| 52) n-butyl alcohol | 3.799 | 56 | 479446 | 3052.90 | ug/L | | 99 |
| 53) benzene | 3.527 | 78 | 518071 | 49.09 | ug/L | | 100 |
| 54) tert-amyl methyl ether | 3.574 | 73 | 420261 | 50.84 | ug/L | | 98 |
| 55) iso-octane | 3.579 | 57 | 263896 | 46.84 | ug/L | | 100 |
| 56) heptane | 3.668 | 57 | 45501 | 41.72 | ug/L | | 95 |
| 57) isopropyl acetate | 3.501 | 87 | 46373 | 54.18 | ug/L | # | 79 |
| 58) 1,2-dichloroethane | 3.542 | 62 | 210869 | 47.98 | ug/L | | 100 |
| 59) trichloroethene | 3.909 | 95 | 165345 | 52.93 | ug/L | | 98 |
| 60) ethyl acrylate | 3.920 | 55 | 263221 | 53.60 | ug/L | | 99 |
| 61) 2-nitropropane | 4.355 | 41 | 75015m | 57.56 | ug/L | | |
| 62) 2-chloroethyl vinyl ether | 4.387 | 63 | 251760 | 152.35 | ug/L | | 95 |
| 63) methyl methacrylate | 4.072 | 100 | 56255 | 52.50 | ug/L | # | 81 |
| 64) 1,2-dichloropropane | 4.067 | 63 | 145498 | 52.69 | ug/L | | 95 |
| 65) methylcyclohexane | 4.067 | 83 | 186001 | 47.80 | ug/L | | 100 |
| 66) dibromomethane | 4.124 | 93 | 117654 | 48.70 | ug/L | | 95 |
| 67) bromodichloromethane | 4.224 | 83 | 207091 | 48.76 | ug/L | | 97 |
| 68) epichlorohydrin | 4.429 | 57 | 124252 | 271.88 | ug/L | | 98 |
| 69) cis-1,3-dichloropropene | 4.507 | 75 | 225177 | 50.90 | ug/L | | 99 |
| 70) 4-methyl-2-pentanone | 4.586 | 58 | 391443 | 236.28 | ug/L | | 93 |
| 71) 3-methyl-1-butanol | 4.612 | 70 | 197610 | 1260.12 | ug/L | | 98 |
| 74) toluene | 4.743 | 92 | 327405 | 46.47 | ug/L | | 99 |
| 75) ethyl methacrylate | 4.906 | 69 | 211416 | 51.64 | ug/L | | 98 |
| 76) trans-1,3-dichloropropene | 4.885 | 75 | 209525 | 49.85 | ug/L | | 100 |
| 77) 1,1,2-trichloroethane | 5.021 | 83 | 125698 | 51.46 | ug/L | | 94 |
| 78) 2-hexanone | 5.163 | 58 | 415144 | 232.11 | ug/L | | 96 |
| 79) tetrachloroethene | 5.110 | 164 | 125900 | 46.08 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 5.142 | 76 | 229561 | 50.99 | ug/L | | 99 |
| 81) butyl acetate | 5.236 | 56 | 120294 | 52.99 | ug/L | | 92 |
| 82) dibromochloromethane | 5.304 | 129 | 186638 | 48.60 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 5.398 | 107 | 171935 | 50.13 | ug/L | | 97 |
| 84) n-butyl ether | 5.807 | 57 | 526959 | 52.39 | ug/L | | 99 |
| 85) chlorobenzene | 5.755 | 112 | 399227 | 47.04 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 5.818 | 131 | 170882 | 51.48 | ug/L | | 97 |
| 87) ethylbenzene | 5.823 | 91 | 657036 | 49.31 | ug/L | | 99 |
| 88) m,p-xylene | 5.918 | 106 | 501306 | 97.02 | ug/L | | 96 |
| 89) o-xylene | 6.216 | 91 | 494781 | 48.43 | ug/L | | 98 |
| 90) styrene | 6.227 | 104 | 418173 | 49.33 | ug/L | | 100 |
| 91) butyl acrylate | 6.153 | 56 | 139568 | 55.44 | ug/L | | 98 |
| 92) n-amyl acetate | 6.327 | 70 | 115191 | 51.27 | ug/L | | 93 |
| 93) bromoform | 6.374 | 173 | 142361 | 50.08 | ug/L | | 99 |
| 94) isopropylbenzene | 6.500 | 105 | 578291 | 47.70 | ug/L | | 98 |
| 95) cis-1,4-dichloro-2-butene | 6.536 | 88 | 39300 | 27.73 | ug/L | | 92 |
| 98) bromobenzene | 6.756 | 156 | 178429 | 47.01 | ug/L | | 91 |
| 99) 1,1,2,2-tetrachloroethane | 6.730 | 83 | 235351 | 50.52 | ug/L | | 99 |
| 100) trans-1,4-dichloro-2-b... | 6.762 | 53 | 34649 | 31.53 | ug/L | | 98 |
| 101) 1,2,3-trichloropropane | 6.777 | 110 | 68963 | 49.79 | ug/L | | 96 |
| 102) n-propylbenzene | 6.825 | 91 | 646602 | 47.21 | ug/L | | 100 |
| 103) 2-chlorotoluene | 6.898 | 126 | 148156 | 47.20 | ug/L | | 99 |
| 104) 4-chlorotoluene | 6.987 | 126 | 149790 | 46.36 | ug/L | | 99 |
| 105) 1,3,5-trimethylbenzene | 6.961 | 105 | 435147 | 47.46 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93007.d
Acq On : 30 Sep 2022 12:21 am
Operator : KYLEM
Sample : jd52507-10msd Inst : MS2V
Misc : MS62506,V2V3777,5,,,,100
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 07:16:39 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration

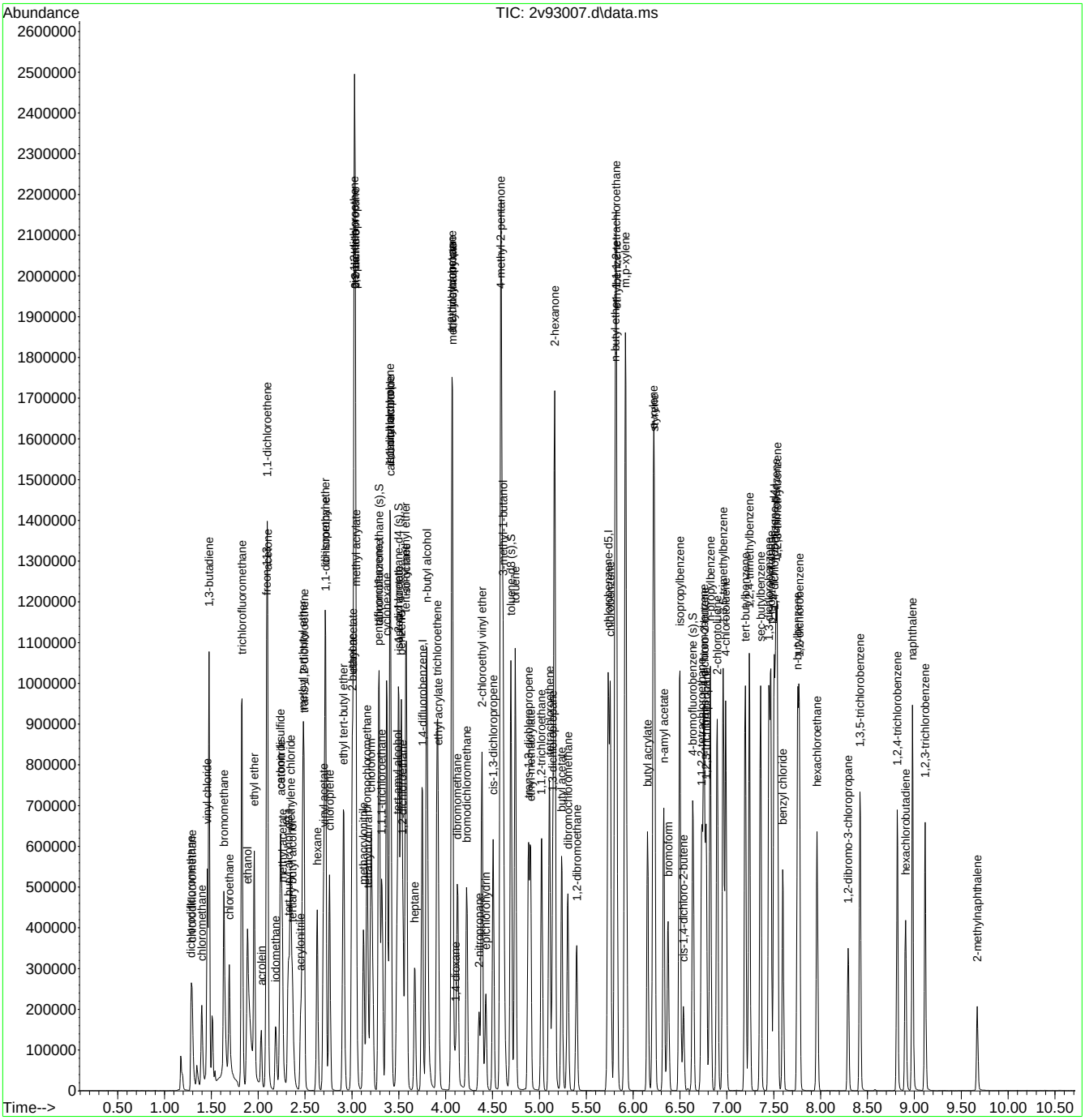
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) tert-butylbenzene | 7.197 | 119 | 369871 | 46.27 | ug/L | 99 |
| 107) 1,2,4-trimethylbenzene | 7.239 | 105 | 442923 | 46.28 | ug/L | 97 |
| 108) sec-butylbenzene | 7.359 | 105 | 514299 | 47.49 | ug/L | 98 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 288950 | 46.18 | ug/L | 99 |
| 110) p-isopropyltoluene | 7.469 | 119 | 427468 | 46.53 | ug/L | 99 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 449143 | 46.93 | ug/L | 99 |
| 112) 1,4-dichlorobenzene | 7.522 | 146 | 296085 | 45.36 | ug/L | 99 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 275877 | 46.78 | ug/L | 98 |
| 114) benzyl chloride | 7.595 | 91 | 267173 | 43.99 | ug/L | 98 |
| 115) n-butylbenzene | 7.753 | 92 | 190948 | 48.87 | ug/L | 96 |
| 116) hexachloroethane | 7.962 | 201 | 65904 | 46.25 | ug/L | 90 |
| 117) 1,2-dibromo-3-chloropr... | 8.293 | 157 | 66901 | 53.59 | ug/L | 96 |
| 118) 1,3,5-trichlorobenzene | 8.418 | 180 | 163237 | 49.31 | ug/L | 100 |
| 119) 1,2,4-trichlorobenzene | 8.817 | 180 | 145207 | 50.03 | ug/L | 99 |
| 120) hexachlorobutadiene | 8.906 | 225 | 50164 | 48.94 | ug/L | 95 |
| 121) naphthalene | 8.979 | 128 | 496818 | 50.93 | ug/L | 99 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 135355 | 51.98 | ug/L | 100 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 76663 | 23.12 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93007.d
Acq On : 30 Sep 2022 12:21 am
Operator : KYLEM
Sample : jd52507-10msd Inst : MS2V
Misc : MS62506,V2V3777,5,,,,100
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Oct 03 07:16:39 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



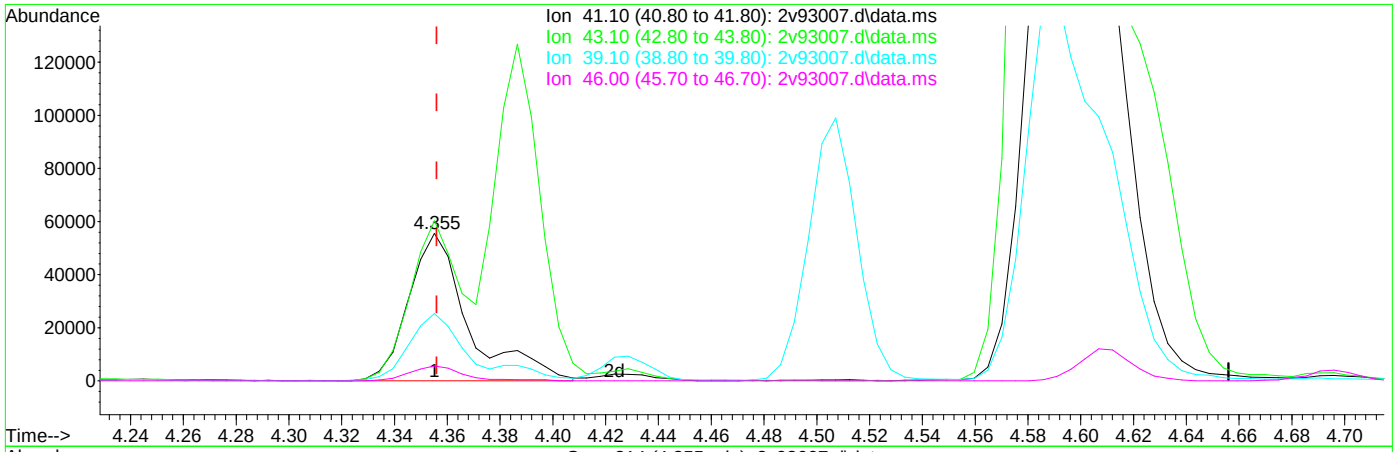
| | | | |
|---|---|---|---|
| **Sample Number:** | JD52507-10MSD | **Method:** | SW846 8260D |
| **Lab FileID:** | 2V93007.D | **Analyst approved:** | 10/03/22 07:18 Lotus Acosta |
| **Injection Time:** | 09/30/22 00:21 | **Supervisor approved:** | 10/05/22 21:50 MoHui Huang |

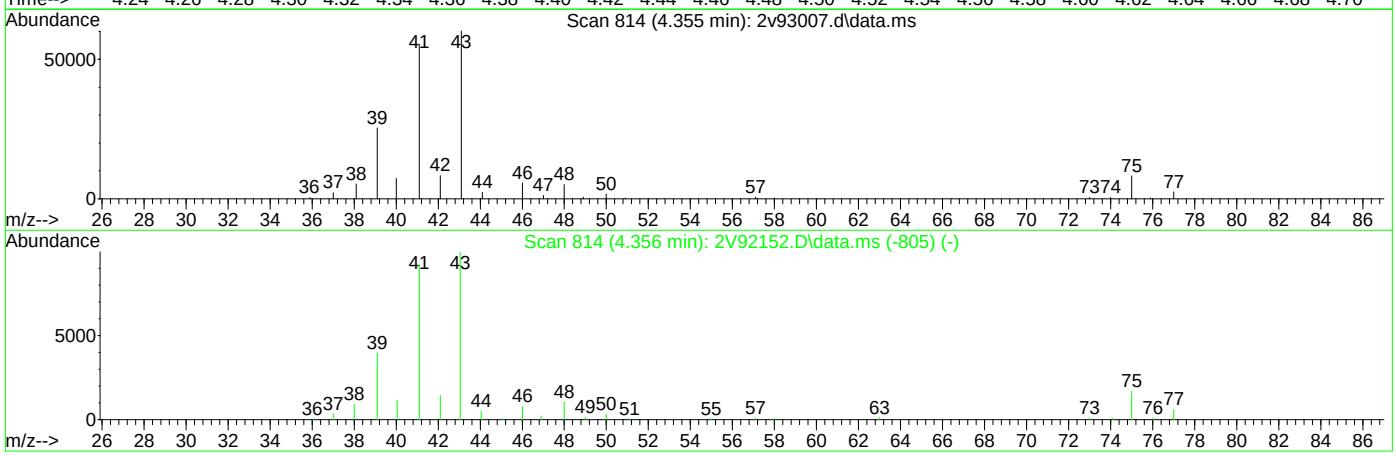
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| 2-Nitropropane | 79-46-9 | | 4.36 | Poor instrument integration |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93007.d
Acq On : 30 Sep 2022 12:21 am
Operator : KYLEM
Sample : jd52507-10msd Inst : MS2V
Misc : MS62506,V2V3777,5,,,,100
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Sep 30 09:41:09 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration







TIC: 2v93007.d\data.ms

(61) 2-nitropropane

4.355min (-0.001) 67.10ug/L

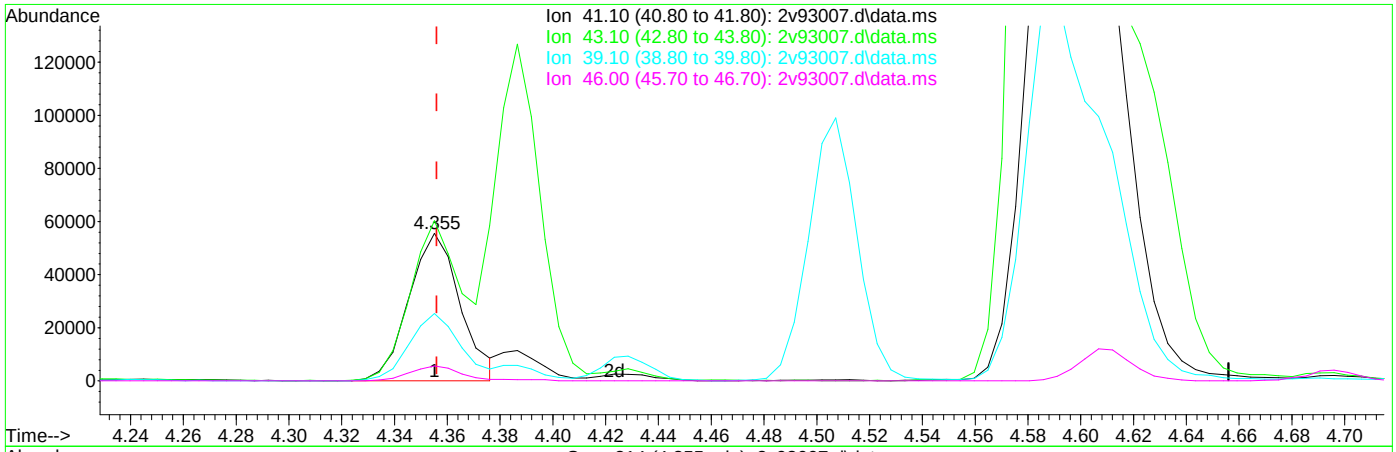
response 87454

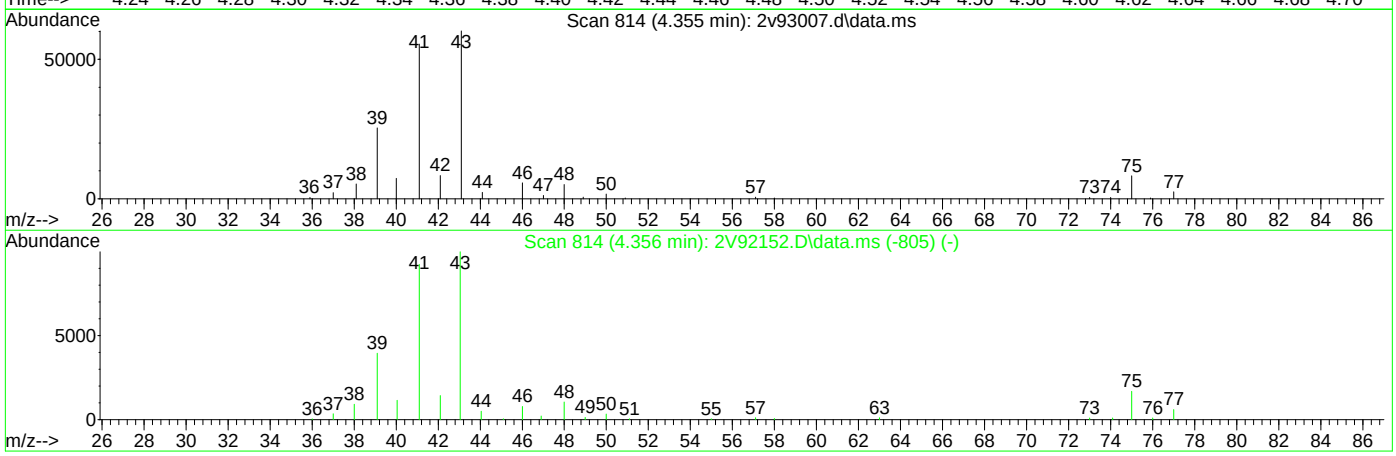
| Ion | Exp% | Act% |
|---|---|---|
| 41.10 | 100 | 100 |
| 43.10 | 108.20 | 108.52 |
| 39.10 | 42.70 | 45.66 |
| 46.00 | 8.50 | 10.24 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93007.d
Acq On : 30 Sep 2022 12:21 am
Operator : KYLEM
Sample : jd52507-10msd Inst : MS2V
Misc : MS62506,V2V3777,5,,,,100
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Sep 30 09:41:09 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:37:13 2022
Response via : Initial Calibration







TIC: 2v93007.d\data.ms

(61) 2-nitropropane

4.355min (-0.001) 57.56ug/L m

response 75015

| Ion | Exp% | Act% |
|---|---|---|
| 41.10 | 100 | 100 |
| 43.10 | 108.20 | 108.52 |
| 39.10 | 42.70 | 45.66 |
| 46.00 | 8.50 | 10.24 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220451.d
Acq On : 30 Sep 2022 3:35 pm
Operator : nicoleh
Sample : jd52514-12ms Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 21:26:13 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.251 | 65 | 536246 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.511 | 168 | 767509 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.434 | 114 | 1211541 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.558 | 117 | 1228623 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 636196 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.511 | 168 | 767509 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 395428 | 54.73 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 109.46% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.951 | 65 | 443772 | 39.40 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 78.80%# | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 1403600 | 46.63 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.26% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 627048 | 53.28 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.56% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 5.982 | 45 | 543070 | 4157.03 | ug/L | 100 |
| 3) tertiary butyl alcohol | 7.366 | 59 | 293686 | 222.93 | ug/L | 94 |
| 4) 1,4-dioxane | 11.078 | 88 | 101592 | 1100.31 | ug/L | 99 |
| 6) chlorodifluoromethane | 3.990 | 51 | 276795 | 26.45 | ug/L | 97 |
| 7) dichlorodifluoromethane | 3.964 | 85 | 488927 | 47.43 | ug/L | 99 |
| 8) chloromethane | 4.352 | 50 | 562177 | 42.15 | ug/L | 99 |
| 9) vinyl chloride | 4.572 | 62 | 528937 | 51.84 | ug/L | 99 |
| 10) 1,3-butadiene | 4.624 | 54 | 230786 | 25.39 | ug/L | 99 |
| 11) bromomethane | 5.196 | 94 | 310584 | 51.61 | ug/L | 98 |
| 12) chloroethane | 5.358 | 64 | 276664 | 57.28 | ug/L | 90 |
| 13) trichlorofluoromethane | 5.783 | 101 | 574209 | 50.23 | ug/L | 95 |
| 14) ethyl ether | 6.187 | 74 | 207684 | 57.02 | ug/L | 93 |
| 15) acrolein | 6.412 | 56 | 84728 | 51.98 | ug/L | 96 |
| 16) freon 113 | 6.617 | 151 | 302440 | 55.67 | ug/L | 98 |
| 17) 1,1-dichloroethene | 6.601 | 96 | 295463 | 51.89 | ug/L | 95 |
| 18) acetone | 6.606 | 43 | 531411 | 180.08 | ug/L | 91 |
| 19) acetonitrile | 7.015 | 41 | 594998 | 488.60 | ug/L | 99 |
| 20) iodomethane | 6.847 | 142 | 591606 | 53.23 | ug/L | 94 |
| 21) carbon disulfide | 6.989 | 76 | 953941 | 50.57 | ug/L | 92 |
| 22) methylene chloride | 7.303 | 84 | 378386 | 56.07 | ug/L | 94 |
| 23) methyl acetate | 7.062 | 43 | 363044 | 49.36 | ug/L | 100 |
| 24) methyl tert butyl ether | 7.660 | 73 | 1127910 | 55.55 | ug/L | 95 |
| 25) trans-1,2-dichloroethene | 7.686 | 96 | 373624 | 57.89 | ug/L | 97 |
| 26) hexane | 8.037 | 57 | 671637 | 58.56 | ug/L | 98 |
| 27) di-isopropyl ether | 8.252 | 45 | 1635766 | 58.19 | ug/L | 97 |
| 28) ethyl tert-butyl ether | 8.709 | 59 | 1445757 | 59.09 | ug/L | 100 |
| 29) 2-butanone | 8.903 | 72 | 169354 | 213.23 | ug/L | 96 |
| 30) 1,1-dichloroethane | 8.258 | 63 | 729574 | 57.82 | ug/L | 99 |
| 31) chloroprene | 8.357 | 53 | 673412 | 56.19 | ug/L | 94 |
| 32) acrylonitrile | 7.592 | 53 | 167184 | 51.35 | ug/L | 97 |
| 33) vinyl acetate | 8.200 | 86 | 78680 | 66.10 | ug/L # | 56 |
| 34) ethyl acetate | 8.924 | 45 | 75401 | 51.14 | ug/L # | 63 |
| 35) 2,2-dichloropropane | 8.997 | 77 | 601784 | 59.67 | ug/L | 97 |
| 36) cis-1,2-dichloroethene | 8.966 | 96 | 2817695 | 396.97 | ug/L | 92 |
| 37) propionitrile | 8.976 | 54 | 633918 | 522.06 | ug/L | 85 |
| 38) bromochloromethane | 9.259 | 130 | 275990 | 58.48 | ug/L | 94 |
| 39) tetrahydrofuran | 9.280 | 42 | 147236 | 43.73 | ug/L | 95 |
| 40) chloroform | 9.348 | 83 | 713105 | 54.39 | ug/L | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220451.d
Acq On : 30 Sep 2022 3:35 pm
Operator : nicoleh
Sample : jd52514-12ms Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 21:26:13 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) tert-butyl formate | 9.385 | 59 | 361097 | 56.64 | ug/L | | 95 |
| 42) isobutyl alcohol | 9.741 | 43 | 259211 | 510.12 | ug/L | | 96 |
| 44) methacrylonitrile | 9.175 | 67 | 169598 | 56.23 | ug/L | | 85 |
| 45) 1,1,1-trichloroethane | 9.605 | 97 | 633940 | 55.68 | ug/L | | 98 |
| 46) cyclohexane | 9.715 | 84 | 542386 | 57.01 | ug/L | | 95 |
| 47) 1,1-dichloropropene | 9.773 | 75 | 535450 | 58.41 | ug/L | | 98 |
| 48) tert-amyl alcohol | 9.909 | 73 | 126796 | 249.58 | ug/L | | 93 |
| 49) carbon tetrachloride | 9.799 | 117 | 555972 | 54.10 | ug/L | | 98 |
| 52) 2,2,4-trimethylpentane | 10.119 | 57 | 1741383 | 51.14 | ug/L | | 94 |
| 53) tert-amyl methyl ether | 10.103 | 73 | 1241968 | 49.77 | ug/L | | 98 |
| 54) n-butyl alcohol | 10.491 | 56 | 748057 | 2376.74 | ug/L | | 92 |
| 55) benzene | 10.019 | 78 | 1516901 | 52.77 | ug/L | | 97 |
| 56) heptane | 10.276 | 57 | 330364 | 47.55 | ug/L | | 98 |
| 57) isopropyl acetate | 9.935 | 87 | 91756 | 50.86 | ug/L | # | 93 |
| 58) 1,2-dichloroethane | 10.046 | 62 | 602836 | 44.63 | ug/L | | 99 |
| 59) trichloroethene | 10.743 | 95 | 504300 | 61.36 | ug/L | | 97 |
| 60) ethyl acrylate | 10.732 | 55 | 646412 | 49.53 | ug/L | | 99 |
| 61) 2-nitropropane | 11.498 | 41 | 122990 | 35.85 | ug/L | | 94 |
| 62) 2-chloroethyl vinyl ether | 11.535 | 63 | 219143 | 59.18 | ug/L | | 98 |
| 63) methyl methacrylate | 11.000 | 100 | 108106 | 52.47 | ug/L | # | 73 |
| 64) 1,2-dichloropropane | 11.031 | 63 | 439623 | 51.55 | ug/L | | 95 |
| 65) methylcyclohexane | 11.042 | 83 | 673896 | 50.11 | ug/L | | 98 |
| 66) dibromomethane | 11.141 | 93 | 262602 | 46.90 | ug/L | | 94 |
| 67) bromodichloromethane | 11.293 | 83 | 561651 | 48.46 | ug/L | | 99 |
| 68) epichlorohydrin | 11.618 | 57 | 225500 | 221.52 | ug/L | | 97 |
| 69) cis-1,3-dichloropropene | 11.755 | 75 | 670805 | 52.87 | ug/L | | 85 |
| 70) 4-methyl-2-pentanone | 11.860 | 58 | 757499 | 188.35 | ug/L | | 93 |
| 71) 3-methyl-1-butanol | 11.865 | 70 | 245930 | 991.46 | ug/L | # | 87 |
| 74) toluene | 12.132 | 92 | 931288 | 47.72 | ug/L | | 98 |
| 75) trans-1,3-dichloropropene | 12.321 | 75 | 599569 | 46.34 | ug/L | | 99 |
| 76) ethyl methacrylate | 12.316 | 69 | 546333 | 49.18 | ug/L | | 87 |
| 77) 1,1,2-trichloroethane | 12.536 | 83 | 303213 | 45.18 | ug/L | | 96 |
| 78) 2-hexanone | 12.704 | 58 | 714791 | 175.06 | ug/L | | 90 |
| 79) tetrachloroethene | 12.683 | 166 | 459487 | 47.29 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 12.720 | 76 | 573262 | 44.52 | ug/L | | 98 |
| 81) butyl acetate | 12.788 | 56 | 334385 | 47.66 | ug/L | | 94 |
| 82) dibromochloromethane | 12.961 | 129 | 432434 | 44.16 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.113 | 107 | 367277 | 44.20 | ug/L | | 96 |
| 84) n-butyl ether | 13.558 | 57 | 1723515 | 44.57 | ug/L | | 98 |
| 85) chlorobenzene | 13.590 | 112 | 1027262 | 48.26 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 13.658 | 131 | 395000 | 46.14 | ug/L | | 96 |
| 87) ethylbenzene | 13.658 | 91 | 1679786 | 45.90 | ug/L | | 95 |
| 88) m,p-xylene | 13.773 | 106 | 1272706 | 89.47 | ug/L | | 93 |
| 89) o-xylene | 14.177 | 91 | 1340634 | 44.88 | ug/L | | 98 |
| 90) styrene | 14.188 | 104 | 1034268 | 44.68 | ug/L | | 98 |
| 91) n-amyl acetate | 14.224 | 70 | 290182 | 48.04 | ug/L | # | 82 |
| 92) bromoform | 14.408 | 173 | 309221 | 43.91 | ug/L | | 97 |
| 93) butyl acrylate | 14.009 | 55 | 998070 | 48.44 | ug/L | | 100 |
| 94) isopropylbenzene | 14.523 | 105 | 1578918 | 44.33 | ug/L | | 99 |
| 95) cis-1,4-dichloro-2-butene | 14.560 | 88 | 115545 | 30.13 | ug/L | | 90 |
| 98) bromobenzene | 14.901 | 156 | 449151 | 44.11 | ug/L | | 99 |
| 99) 1,1,2,2-tetrachloroethane | 14.801 | 83 | 449128 | 41.54 | ug/L | | 98 |
| 100) trans-1,4-dichloro-2-b... | 14.832 | 53 | 103656 | 28.80 | ug/L | | 93 |
| 101) 1,2,3-trichloropropane | 14.885 | 110 | 109154 | 39.23 | ug/L | | 93 |
| 102) n-propylbenzene | 14.937 | 91 | 1919088 | 47.00 | ug/L | | 99 |
| 103) 2-chlorotoluene | 15.068 | 126 | 406612 | 45.75 | ug/L | | 95 |
| 104) 4-chlorotoluene | 15.179 | 91 | 1204957 | 46.40 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220451.d
Acq On : 30 Sep 2022 3:35 pm
Operator : nicoleh
Sample : jd52514-12ms Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 21:26:13 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

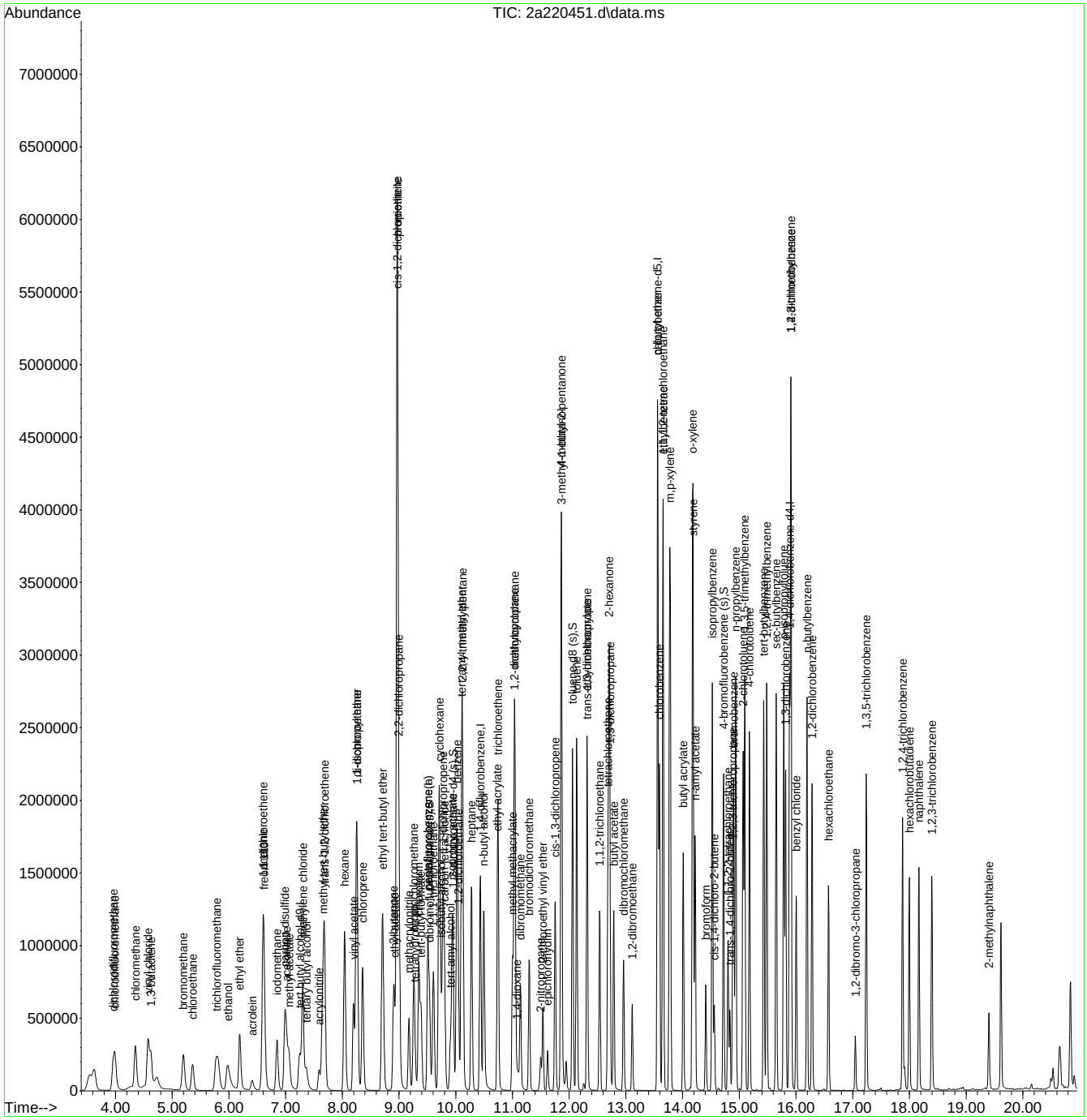
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 105) 1,3,5-trimethylbenzene | 15.095 | 105 | 1314824 | 46.36 | ug/L | 99 |
| 106) tert-butylbenzene | 15.430 | 119 | 1132143 | 46.08 | ug/L | 98 |
| 107) 1,2,4-trimethylbenzene | 15.483 | 105 | 1320534 | 45.71 | ug/L | 98 |
| 108) sec-butylbenzene | 15.650 | 105 | 1643855 | 44.87 | ug/L | 100 |
| 109) 1,3-dichlorobenzene | 15.818 | 146 | 803966 | 44.30 | ug/L | 98 |
| 110) p-isopropyltoluene | 15.781 | 119 | 1407583 | 45.05 | ug/L | 99 |
| 111) benzyl chloride | 16.002 | 91 | 834657 | 46.92 | ug/L | 99 |
| 112) 1,2,3-trimethylbenzene | 15.913 | 105 | 1315003 | 44.14 | ug/L | 97 |
| 113) 1,4-dichlorobenzene | 15.913 | 146 | 799026 | 42.34 | ug/L | 98 |
| 114) 1,2-dichlorobenzene | 16.285 | 146 | 778314 | 43.87 | ug/L | 99 |
| 115) n-butylbenzene | 16.196 | 92 | 738087 | 44.42 | ug/L | 98 |
| 116) 1,2-dibromo-3-chloropr... | 17.050 | 157 | 93241 | 39.72 | ug/L | 90 |
| 117) 1,3,5-trichlorobenzene | 17.239 | 180 | 635679 | 45.85 | ug/L | 98 |
| 118) 1,2,4-trichlorobenzene | 17.879 | 180 | 545376 | 45.74 | ug/L | 98 |
| 119) hexachlorobutadiene | 17.999 | 225 | 289856 | 47.24 | ug/L | 97 |
| 120) naphthalene | 18.167 | 128 | 1076339 | 37.89 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 18.398 | 180 | 463850 | 41.32 | ug/L | 98 |
| 122) hexachloroethane | 16.573 | 201 | 225967 | 44.18 | ug/L | 98 |
| 123) 2-methylnaphthalene | 19.404 | 142 | 253294 | 17.49 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220451.d
Acq On : 30 Sep 2022 3:35 pm
Operator : nicoleh
Sample : jd52514-12ms Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,5
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 04 21:26:13 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220452.d
Acq On : 30 Sep 2022 4:03 pm
Operator : nicoleh
Sample : jd52514-12msd Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 03 11:09:44 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) tert butyl alcohol-d9 | 7.240 | 65 | 531321 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.505 | 168 | 768609 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.433 | 114 | 1217767 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.563 | 117 | 1225838 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 642810 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.505 | 168 | 768084 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 394805 | 54.57 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 109.14% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.951 | 65 | 446277 | 39.42 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 78.84%# | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 1409595 | 46.94 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.88% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 634614 | 53.37 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.74% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.972 | 45 | 521298 | 4027.36 | ug/L | 98 |
| 3) tertiary butyl alcohol | 7.361 | 59 | 296091 | 226.84 | ug/L | 93 |
| 4) 1,4-dioxane | 11.078 | 88 | 101105 | 1105.19 | ug/L | 99 |
| 6) chlorodifluoromethane | 3.990 | 51 | 281791 | 26.89 | ug/L | 97 |
| 7) dichlorodifluoromethane | 3.953 | 85 | 496799 | 48.12 | ug/L | 99 |
| 8) chloromethane | 4.341 | 50 | 561628 | 42.04 | ug/L | 99 |
| 9) vinyl chloride | 4.566 | 62 | 540124 | 52.86 | ug/L | 97 |
| 10) 1,3-butadiene | 4.619 | 54 | 237527 | 26.10 | ug/L | 91 |
| 11) bromomethane | 5.190 | 94 | 313878 | 52.08 | ug/L | 97 |
| 12) chloroethane | 5.348 | 64 | 279124 | 57.70 | ug/L | 92 |
| 13) trichlorofluoromethane | 5.778 | 101 | 583646 | 50.99 | ug/L | 99 |
| 14) ethyl ether | 6.187 | 74 | 209101 | 57.33 | ug/L | 92 |
| 15) acrolein | 6.407 | 56 | 84348 | 51.67 | ug/L | 95 |
| 16) freon 113 | 6.611 | 151 | 306146 | 56.27 | ug/L | 95 |
| 17) 1,1-dichloroethene | 6.595 | 96 | 303495 | 53.22 | ug/L | 90 |
| 18) acetone | 6.601 | 43 | 518226 | 175.36 | ug/L | 93 |
| 19) acetonitrile | 7.010 | 41 | 596224 | 488.91 | ug/L | 97 |
| 20) iodomethane | 6.842 | 142 | 586176 | 52.66 | ug/L | 92 |
| 21) carbon disulfide | 6.978 | 76 | 954023 | 50.50 | ug/L | 92 |
| 22) methylene chloride | 7.298 | 84 | 377797 | 55.91 | ug/L | 95 |
| 23) methyl acetate | 7.057 | 43 | 354208 | 48.09 | ug/L | 97 |
| 24) methyl tert butyl ether | 7.649 | 73 | 1128819 | 55.51 | ug/L | 96 |
| 25) trans-1,2-dichloroethene | 7.681 | 96 | 370039 | 57.25 | ug/L | 98 |
| 26) hexane | 8.037 | 57 | 671261 | 58.44 | ug/L | 97 |
| 27) di-isopropyl ether | 8.247 | 45 | 1620621 | 57.57 | ug/L | 97 |
| 28) ethyl tert-butyl ether | 8.703 | 59 | 1460333 | 59.60 | ug/L | 99 |
| 29) 2-butanone | 8.902 | 72 | 174206 | 219.03 | ug/L # | 83 |
| 30) 1,1-dichloroethane | 8.252 | 63 | 724103 | 57.30 | ug/L | 98 |
| 31) chloroprene | 8.352 | 53 | 673029 | 56.08 | ug/L | 95 |
| 32) acrylonitrile | 7.586 | 53 | 169463 | 51.98 | ug/L | 94 |
| 33) vinyl acetate | 8.195 | 86 | 77916 | 65.37 | ug/L # | 66 |
| 34) ethyl acetate | 8.918 | 45 | 75980 | 51.46 | ug/L | 80 |
| 35) 2,2-dichloropropane | 8.997 | 77 | 599900 | 59.40 | ug/L | 97 |
| 36) cis-1,2-dichloroethene | 8.965 | 96 | 2819315 | 396.63 | ug/L | 91 |
| 37) propionitrile | 8.976 | 54 | 634422 | 521.72 | ug/L | 91 |
| 38) bromochloromethane | 9.259 | 130 | 271067 | 57.36 | ug/L | 99 |
| 39) tetrahydrofuran | 9.275 | 42 | 145937 | 43.28 | ug/L | 97 |
| 40) chloroform | 9.348 | 83 | 719396 | 54.79 | ug/L | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220452.d
Acq On : 30 Sep 2022 4:03 pm
Operator : nicoleh
Sample : jd52514-12msd Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 03 11:09:44 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) tert-butyl formate | 9.385 | 59 | 353000 | 55.29 | ug/L | | 93 |
| 42) isobutyl alcohol | 9.741 | 43 | 246050 | 483.53 | ug/L | | 98 |
| 44) methacrylonitrile | 9.170 | 67 | 171403 | 56.75 | ug/L | | 84 |
| 45) 1,1,1-trichloroethane | 9.605 | 97 | 639996 | 56.13 | ug/L | | 99 |
| 46) cyclohexane | 9.715 | 84 | 551570 | 57.89 | ug/L | | 91 |
| 47) 1,1-dichloropropene | 9.773 | 75 | 534772 | 58.25 | ug/L | | 97 |
| 48) tert-amyl alcohol | 9.904 | 73 | 132403 | 260.25 | ug/L | # | 89 |
| 49) carbon tetrachloride | 9.799 | 117 | 562967 | 54.70 | ug/L | | 98 |
| 52) 2,2,4-trimethylpentane | 10.119 | 57 | 1719032 | 50.23 | ug/L | | 92 |
| 53) tert-amyl methyl ether | 10.103 | 73 | 1248118 | 49.76 | ug/L | | 98 |
| 54) n-butyl alcohol | 10.491 | 56 | 740883 | 2341.91 | ug/L | | 91 |
| 55) benzene | 10.019 | 78 | 1526596 | 52.84 | ug/L | | 97 |
| 56) heptane | 10.276 | 57 | 328253 | 47.01 | ug/L | | 95 |
| 57) isopropyl acetate | 9.935 | 87 | 92060 | 50.76 | ug/L | # | 86 |
| 58) 1,2-dichloroethane | 10.040 | 62 | 604980 | 44.56 | ug/L | | 100 |
| 59) trichloroethene | 10.743 | 95 | 505599 | 61.21 | ug/L | | 96 |
| 60) ethyl acrylate | 10.732 | 55 | 644591 | 49.14 | ug/L | | 99 |
| 61) 2-nitropropane | 11.498 | 41 | 126481 | 36.68 | ug/L | | 91 |
| 62) 2-chloroethyl vinyl ether | 11.534 | 63 | 97626 | 30.45 | ug/L | | 98 |
| 63) methyl methacrylate | 11.000 | 100 | 110490 | 53.35 | ug/L | # | 75 |
| 64) 1,2-dichloropropane | 11.031 | 63 | 441014 | 51.45 | ug/L | | 96 |
| 65) methylcyclohexane | 11.042 | 83 | 673011 | 49.79 | ug/L | | 97 |
| 66) dibromomethane | 11.136 | 93 | 262987 | 46.73 | ug/L | | 94 |
| 67) bromodichloromethane | 11.293 | 83 | 563254 | 48.35 | ug/L | | 99 |
| 68) epichlorohydrin | 11.618 | 57 | 219280 | 214.31 | ug/L | | 96 |
| 69) cis-1,3-dichloropropene | 11.749 | 75 | 677847 | 53.16 | ug/L | | 85 |
| 70) 4-methyl-2-pentanone | 11.860 | 58 | 767606 | 189.89 | ug/L | | 93 |
| 71) 3-methyl-1-butanol | 11.865 | 70 | 245588 | 985.02 | ug/L | # | 86 |
| 74) toluene | 12.132 | 92 | 938228 | 48.18 | ug/L | | 98 |
| 75) trans-1,3-dichloropropene | 12.321 | 75 | 601973 | 46.63 | ug/L | | 99 |
| 76) ethyl methacrylate | 12.316 | 69 | 550905 | 49.70 | ug/L | | 87 |
| 77) 1,1,2-trichloroethane | 12.536 | 83 | 303000 | 45.26 | ug/L | | 96 |
| 78) 2-hexanone | 12.704 | 58 | 723715 | 177.65 | ug/L | # | 88 |
| 79) tetrachloroethene | 12.683 | 166 | 460010 | 47.45 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 12.719 | 76 | 568274 | 44.24 | ug/L | | 99 |
| 81) butyl acetate | 12.788 | 56 | 331020 | 47.29 | ug/L | | 94 |
| 82) dibromochloromethane | 12.961 | 129 | 433561 | 44.37 | ug/L | | 100 |
| 83) 1,2-dibromoethane | 13.113 | 107 | 367993 | 44.38 | ug/L | | 94 |
| 84) n-butyl ether | 13.558 | 57 | 1727014 | 44.76 | ug/L | | 98 |
| 85) chlorobenzene | 13.595 | 112 | 1028563 | 48.43 | ug/L | | 97 |
| 86) 1,1,1,2-tetrachloroethane | 13.658 | 131 | 392006 | 45.89 | ug/L | | 99 |
| 87) ethylbenzene | 13.658 | 91 | 1684527 | 46.14 | ug/L | | 95 |
| 88) m,p-xylene | 13.778 | 106 | 1276636 | 89.95 | ug/L | | 93 |
| 89) o-xylene | 14.177 | 91 | 1347021 | 45.20 | ug/L | | 98 |
| 90) styrene | 14.187 | 104 | 1036422 | 44.88 | ug/L | | 98 |
| 91) n-amyl acetate | 14.224 | 70 | 290936 | 48.27 | ug/L | # | 85 |
| 92) bromoform | 14.408 | 173 | 310304 | 44.16 | ug/L | | 96 |
| 93) butyl acrylate | 14.014 | 55 | 994802 | 48.40 | ug/L | | 99 |
| 94) isopropylbenzene | 14.523 | 105 | 1582271 | 44.52 | ug/L | | 99 |
| 95) cis-1,4-dichloro-2-butene | 14.560 | 88 | 115209 | 30.11 | ug/L | | 94 |
| 98) bromobenzene | 14.900 | 156 | 454920 | 44.22 | ug/L | | 98 |
| 99) 1,1,2,2-tetrachloroethane | 14.801 | 83 | 452144 | 41.39 | ug/L | | 99 |
| 100) trans-1,4-dichloro-2-b... | 14.832 | 53 | 103475 | 28.45 | ug/L | | 92 |
| 101) 1,2,3-trichloropropane | 14.885 | 110 | 111220 | 39.56 | ug/L | | 92 |
| 102) n-propylbenzene | 14.937 | 91 | 1926885 | 46.70 | ug/L | | 98 |
| 103) 2-chlorotoluene | 15.068 | 126 | 409856 | 45.64 | ug/L | | 97 |
| 104) 4-chlorotoluene | 15.178 | 91 | 1202323 | 45.82 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220452.d
Acq On : 30 Sep 2022 4:03 pm
Operator : nicoleh
Sample : jd52514-12msd Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 03 11:09:44 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 105) 1,3,5-trimethylbenzene | 15.094 | 105 | 1315852 | 45.92 | ug/L | 98 |
| 106) tert-butylbenzene | 15.430 | 119 | 1141903 | 45.99 | ug/L | 97 |
| 107) 1,2,4-trimethylbenzene | 15.482 | 105 | 1317137 | 45.12 | ug/L | 99 |
| 108) sec-butylbenzene | 15.650 | 105 | 1649093 | 44.55 | ug/L | 100 |
| 109) 1,3-dichlorobenzene | 15.818 | 146 | 804525 | 43.87 | ug/L | 99 |
| 110) p-isopropyltoluene | 15.781 | 119 | 1418510 | 44.94 | ug/L | 99 |
| 111) benzyl chloride | 16.002 | 91 | 826886 | 46.00 | ug/L | 97 |
| 112) 1,2,3-trimethylbenzene | 15.912 | 105 | 1317088 | 43.75 | ug/L | 98 |
| 113) 1,4-dichlorobenzene | 15.912 | 146 | 804581 | 42.19 | ug/L | 98 |
| 114) 1,2-dichlorobenzene | 16.285 | 146 | 778072 | 43.41 | ug/L | 99 |
| 115) n-butylbenzene | 16.195 | 92 | 741990 | 44.19 | ug/L | 98 |
| 116) 1,2-dibromo-3-chloropr... | 17.045 | 157 | 92625 | 39.06 | ug/L | 98 |
| 117) 1,3,5-trichlorobenzene | 17.239 | 180 | 644339 | 46.00 | ug/L | 99 |
| 118) 1,2,4-trichlorobenzene | 17.878 | 180 | 548055 | 45.49 | ug/L | 97 |
| 119) hexachlorobutadiene | 17.999 | 225 | 294386 | 47.48 | ug/L | 98 |
| 120) naphthalene | 18.167 | 128 | 1059896 | 36.92 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 18.392 | 180 | 467848 | 41.25 | ug/L | 98 |
| 122) hexachloroethane | 16.573 | 201 | 226858 | 43.90 | ug/L | 98 |
| 123) 2-methylnaphthalene | 19.404 | 142 | 204527 | 13.98 | ug/L | 96 |

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

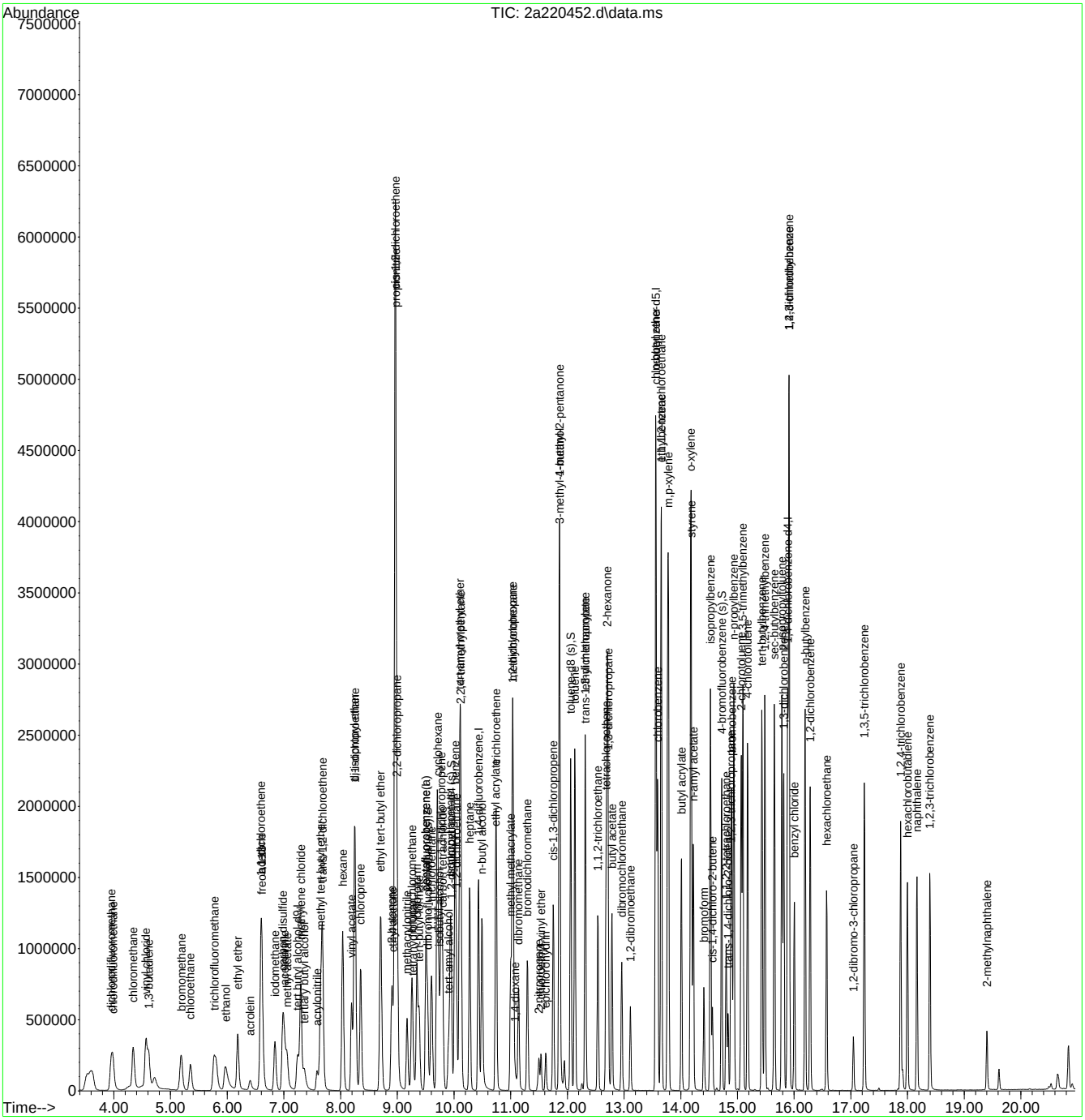
7.4.12

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220452.d
Acq On : 30 Sep 2022 4:03 pm
Operator : nicoleh
Sample : jd52514-12msd Inst : GCMS2A
Misc : MS62508,V2A9583,5,,,,5
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Oct 03 11:09:44 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226620.d
Acq On : 30 Sep 2022 4:56 pm
Operator : nickw
Sample : jd52624-3ms Inst : MSDTEST1A
Misc : MS62562, V1A9705,5,,,,10
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 08:31:47 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.915 | 65 | 170612 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.932 | 168 | 448671 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 675981 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 606677 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.841 | 152 | 243018 | 50.00 | ug/L | | 0.00 |
| 124) pentafluorobenzene(a) | 3.932 | 168 | 448671 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 7.841 | 152 | 243018 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 198933 | 50.31 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.62% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 226643 | 48.42 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 96.84% | | | | |
| 73) toluene-d8 (s) | 5.312 | 98 | 788498 | 48.32 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.64% | | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 248515 | 49.29 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.58% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.747 | 88 | 21670 | 866.40 | ug/L | | 93 |
| 3) ethanol | 2.414 | 45 | 75181 | 3552.19 | ug/L | | 90 |
| 4) tertiary butyl alcohol | 2.966 | 59 | 98182 | 251.05 | ug/L | | 91 |
| 6) chlorodifluoromethane | 1.644 | 51 | 98225 | 25.93 | ug/L | | 95 |
| 7) dichlorodifluoromethane | 1.631 | 85 | 223635 | 40.25 | ug/L | | 99 |
| 8) chloromethane | 1.779 | 50 | 169014 | 42.91 | ug/L | | 99 |
| 9) vinyl chloride | 1.862 | 62 | 334292 | 60.89 | ug/L | | 98 |
| 10) 1,3-butadiene | 1.891 | 54 | 132679 | 27.37 | ug/L | | 99 |
| 11) bromomethane | 2.100 | 96 | 83022 | 45.59 | ug/L | | 98 |
| 12) chloroethane | 2.170 | 64 | 168040 | 46.23 | ug/L | | 97 |
| 13) trichlorofluoromethane | 2.337 | 101 | 323306 | 48.38 | ug/L | | 95 |
| 14) ethyl ether | 2.501 | 74 | 96158 | 45.27 | ug/L | | 95 |
| 15) acrolein | 2.591 | 56 | 32945 | 47.05 | ug/L | | 96 |
| 16) freon 113 | 2.655 | 151 | 125833 | 44.81 | ug/L | | 97 |
| 17) 1,1-dichloroethene | 2.661 | 96 | 136948 | 43.86 | ug/L | | 98 |
| 18) acetone | 2.665 | 58 | 70140 | 177.84 | ug/L | | 87 |
| 19) acetonitrile | 2.832 | 40 | 112927 | 419.30 | ug/L | | 99 |
| 20) iodomethane | 2.764 | 142 | 76865 | 46.17 | ug/L | | 95 |
| 21) iso-butyl alcohol | 2.844 | 43 | 155603 | 444.98 | ug/L | | 97 |
| 22) carbon disulfide | 2.819 | 76 | 348863 | 37.39 | ug/L | | 96 |
| 23) methylene chloride | 2.944 | 84 | 162322 | 44.30 | ug/L | | 95 |
| 24) methyl acetate | 2.848 | 74 | 38822 | 44.63 | ug/L | | 95 |
| 25) methyl tert butyl ether | 3.088 | 73 | 505295 | 46.19 | ug/L | | 98 |
| 26) trans-1,2-dichloroethene | 3.104 | 96 | 157346 | 47.16 | ug/L | | 96 |
| 27) hexane | 3.255 | 57 | 180265 | 41.12 | ug/L | | 98 |
| 28) di-isopropyl ether | 3.342 | 45 | 508047 | 49.99 | ug/L | | 91 |
| 29) ethyl tert-butyl ether | 3.550 | 59 | 499853 | 47.50 | ug/L | | 99 |
| 30) 2-butanone | 3.650 | 72 | 118071 | 191.13 | ug/L | | 98 |
| 31) 1,1-dichloroethane | 3.355 | 63 | 297440 | 48.75 | ug/L | | 98 |
| 32) chloroprene | 3.399 | 53 | 230525 | 47.74 | ug/L | | 95 |
| 33) acrylonitrile | 3.072 | 53 | 66626 | 40.28 | ug/L | | 98 |
| 34) vinyl acetate | 3.329 | 86 | 40028 | 47.15 | ug/L | # | 91 |
| 35) ethyl acetate | 3.656 | 45 | 38031 | 52.25 | ug/L | | 79 |
| 36) 2,2-dichloropropane | 3.688 | 77 | 253039 | 59.43 | ug/L | | 97 |
| 37) cis-1,2-dichloroethene | 3.679 | 96 | 198648 | 53.04 | ug/L | | 98 |
| 38) propionitrile | 3.688 | 54 | 308335 | 474.70 | ug/L | | 94 |
| 39) methyl acrylate | 3.695 | 85 | 40015 | 48.25 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226620.d
Acq On : 30 Sep 2022 4:56 pm
Operator : nickw
Sample : jd52624-3ms Inst : MSDTEST1A
Misc : MS62562, V1A9705,5,,,,10
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 08:31:47 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 40) bromochloromethane | 3.813 | 128 | 94066 | 49.39 | ug/L | | 97 |
| 41) tetrahydrofuran | 3.826 | 72 | 35181 | 45.07 | ug/L | | 99 |
| 42) chloroform | 3.858 | 83 | 319454 | 47.03 | ug/L | | 98 |
| 44) methacrylonitrile | 3.778 | 67 | 96501 | 48.09 | ug/L | | 94 |
| 45) 1,1,1-trichloroethane | 3.977 | 97 | 278472 | 49.72 | ug/L | | 98 |
| 46) cyclohexane | 4.028 | 84 | 254518 | 48.07 | ug/L | | 93 |
| 47) 1,1-dichloropropene | 4.064 | 75 | 236324 | 48.48 | ug/L | | 98 |
| 48) carbon tetrachloride | 4.070 | 117 | 247365 | 51.44 | ug/L | | 98 |
| 49) isopropyl acetate | 4.144 | 87 | 50874 | 49.01 | ug/L | | 94 |
| 50) tert amyl alcohol | 4.128 | 55 | 40430 | 204.08 | ug/L | # | 81 |
| 53) tert-amyl methyl ether | 4.227 | 73 | 523118 | 47.08 | ug/L | | 99 |
| 54) 2,2,4-trimethylpentane | 4.231 | 57 | 318204 | 35.90 | ug/L | | 95 |
| 55) n-butyl alcohol | 4.436 | 56 | 187224 | 1653.84 | ug/L | | 94 |
| 56) benzene | 4.186 | 78 | 687607 | 49.24 | ug/L | | 99 |
| 57) heptane | 4.314 | 57 | 66322 | 38.52 | ug/L | | 94 |
| 58) 1,2-dichloroethane | 4.202 | 62 | 251791 | 49.39 | ug/L | | 99 |
| 59) trichloroethene | 4.561 | 95 | 186242 | 50.09 | ug/L | | 98 |
| 60) ethyl acrylate | 4.561 | 55 | 286876 | 51.62 | ug/L | | 97 |
| 61) 2-nitropropane | 4.988 | 41 | 70809 | 44.47 | ug/L | | 93 |
| 62) 2-chloroethyl vinyl ether | 5.010 | 63 | 62718 | 75.30 | ug/L | | 98 |
| 63) methyl methacrylate | 4.706 | 100 | 66534 | 52.08 | ug/L | | 95 |
| 64) 1,2-dichloropropane | 4.718 | 63 | 177116 | 49.49 | ug/L | | 98 |
| 65) methylcyclohexane | 4.715 | 83 | 249688 | 43.74 | ug/L | | 98 |
| 66) dibromomethane | 4.776 | 93 | 122592 | 47.47 | ug/L | | 96 |
| 67) bromodichloromethane | 4.866 | 83 | 255246 | 48.41 | ug/L | | 99 |
| 68) cis-1,3-dichloropropene | 5.132 | 75 | 302859 | 52.24 | ug/L | | 97 |
| 69) epichlorohydrin | 5.058 | 57 | 57475 | 218.80 | ug/L | | 90 |
| 70) 4-methyl-2-pentanone | 5.203 | 58 | 370537 | 198.70 | ug/L | | 99 |
| 71) 3-methyl-1-butanol | 5.213 | 70 | 91809 | 714.31 | ug/L | | 98 |
| 74) toluene | 5.360 | 92 | 446380 | 50.24 | ug/L | | 99 |
| 75) trans-1,3-dichloropropene | 5.485 | 75 | 278428 | 54.41 | ug/L | | 98 |
| 76) ethyl methacrylate | 5.488 | 69 | 279504 | 52.80 | ug/L | | 98 |
| 77) 1,1,2-trichloroethane | 5.620 | 83 | 147603 | 47.68 | ug/L | | 96 |
| 78) 2-hexanone | 5.739 | 58 | 367367 | 195.10 | ug/L | | 98 |
| 79) tetrachloroethene | 5.703 | 166 | 185171 | 49.22 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 5.732 | 76 | 297004 | 49.73 | ug/L | | 98 |
| 81) butyl acetate | 5.793 | 56 | 140289 | 53.20 | ug/L | | 86 |
| 82) dibromochloromethane | 5.886 | 129 | 196884 | 46.56 | ug/L | | 96 |
| 83) 1,2-dibromoethane | 5.983 | 107 | 192728 | 48.50 | ug/L | | 100 |
| 84) n-butyl ether | 6.320 | 57 | 655940 | 50.52 | ug/L | | 98 |
| 85) chlorobenzene | 6.310 | 112 | 478348 | 47.65 | ug/L | | 99 |
| 86) 1,1,1,2-tetrachloroethane | 6.361 | 131 | 173123 | 50.20 | ug/L | | 96 |
| 87) ethylbenzene | 6.361 | 91 | 799988 | 47.71 | ug/L | | 99 |
| 88) m,p-xylene | 6.448 | 106 | 606126 | 97.17 | ug/L | | 99 |
| 89) o-xylene | 6.718 | 106 | 307968 | 49.56 | ug/L | | 99 |
| 90) butyl acrylate | 6.634 | 55 | 383840 | 56.28 | ug/L | | 98 |
| 91) n-amyl acetate | 6.782 | 70 | 144703 | 53.73 | ug/L | | 98 |
| 92) styrene | 6.727 | 104 | 538666 | 53.07 | ug/L | | 99 |
| 93) bromoform | 6.865 | 173 | 132831 | 47.21 | ug/L | | 98 |
| 94) isopropylbenzene | 6.955 | 105 | 752223 | 47.78 | ug/L | | 99 |
| 95) cis-1,4-dichloro-2-butene | 6.990 | 88 | 63846 | 46.86 | ug/L | | 93 |
| 98) bromobenzene | 7.192 | 156 | 196890 | 50.78 | ug/L | | 98 |
| 99) 1,1,2,2-tetrachloroethane | 7.151 | 83 | 246850 | 48.41 | ug/L | | 95 |
| 100) trans-1,4-dichloro-2-b... | 7.176 | 53 | 49106 | 48.67 | ug/L | | 96 |
| 101) 1,2,3-trichloropropane | 7.202 | 110 | 75191 | 48.38 | ug/L | | 97 |
| 102) n-propylbenzene | 7.234 | 91 | 797365 | 46.63 | ug/L | | 100 |
| 103) 2-chlorotoluene | 7.308 | 126 | 173953 | 48.78 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226620.d
Acq On : 30 Sep 2022 4:56 pm
Operator : nickw
Sample : jd52624-3ms Inst : MSDTEST1A
Misc : MS62562, V1A9705,5,,,,10
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 08:31:47 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

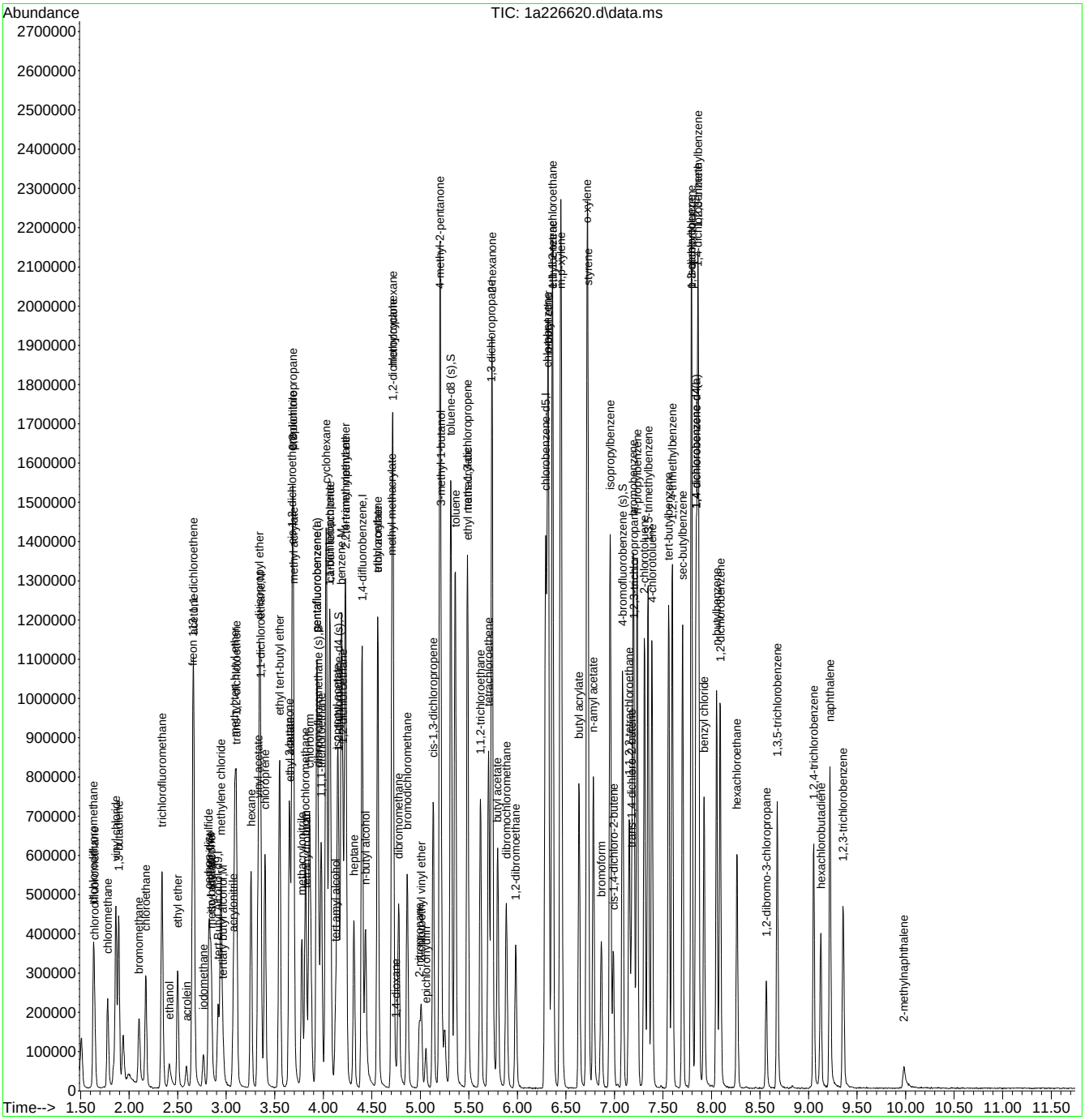
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) 4-chlorotoluene | 7.388 | 126 | 177386 | 48.96 | ug/L | 99 |
| 105) 1,3,5-trimethylbenzene | 7.346 | 105 | 534424 | 46.18 | ug/L | 99 |
| 106) tert-butylbenzene | 7.558 | 119 | 457392 | 45.31 | ug/L | 97 |
| 107) 1,2,4-trimethylbenzene | 7.597 | 105 | 553761 | 47.50 | ug/L | 99 |
| 108) sec-butylbenzene | 7.703 | 105 | 614041 | 43.71 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.796 | 146 | 318424 | 49.97 | ug/L | 98 |
| 110) p-isopropyltoluene | 7.792 | 119 | 521109 | 45.74 | ug/L | 98 |
| 111) 1,2,3-trimethylbenzene | 7.863 | 105 | 551038 | 46.68 | ug/L | 98 |
| 112) 1,4-dichlorobenzene | 7.857 | 146 | 318796 | 47.03 | ug/L | 100 |
| 113) 1,2-dichlorobenzene | 8.091 | 146 | 302981 | 49.71 | ug/L | 99 |
| 114) n-butylbenzene | 8.052 | 92 | 224471 | 45.13 | ug/L | 97 |
| 115) 1,2-dibromo-3-chloropr... | 8.566 | 157 | 56370 | 49.96 | ug/L | 93 |
| 116) 1,3,5-trichlorobenzene | 8.678 | 180 | 166571 | 45.57 | ug/L | 99 |
| 117) 1,2,4-trichlorobenzene | 9.054 | 180 | 141320 | 46.99 | ug/L | 95 |
| 118) hexachlorobutadiene | 9.127 | 225 | 47660 | 42.89 | ug/L | 97 |
| 119) naphthalene | 9.220 | 128 | 508833 | 48.17 | ug/L | 100 |
| 120) 1,2,3-trichlorobenzene | 9.355 | 180 | 113044 | 43.46 | ug/L | 98 |
| 121) hexachloroethane | 8.261 | 119 | 81039 | 45.22 | ug/L | 98 |
| 122) benzyl chloride | 7.924 | 91 | 396855 | 69.04 | ug/L | 99 |
| 123) 2-methylnaphthalene | 9.981 | 142 | 37734 | 16.49 | ug/L | 95 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226620.d
Acq On : 30 Sep 2022 4:56 pm
Operator : nickw
Sample : jd52624-3ms Inst : MSDTEST1A
Misc : MS62562, V1A9705,5,,,,10
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 08:31:47 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226621.d
Acq On : 30 Sep 2022 5:20 pm
Operator : nickw
Sample : jd52624-3msd Inst : MSDTEST1A
Misc : MS62562, V1A9705,5,,,,10
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 08:34:32 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.918 | 65 | 185202 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.932 | 168 | 476113 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.397 | 114 | 689311 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 623825 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.841 | 152 | 243269 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 3.932 | 168 | 476113 | 50.00 | ug/L | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 7.841 | 152 | 243269 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 208895 | 49.79 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.58% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 236575 | 49.56 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.12% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 793060 | 47.26 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.52% | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 252541 | 50.03 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.06% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.750 | 88 | 26175 | 964.07 | ug/L | 88 |
| 3) ethanol | 2.411 | 45 | 90380 | 3933.91 | ug/L | 95 |
| 4) tertiary butyl alcohol | 2.963 | 59 | 107113 | 252.31 | ug/L | 94 |
| 6) chlorodifluoromethane | 1.644 | 51 | 107437 | 26.72 | ug/L | 93 |
| 7) dichlorodifluoromethane | 1.631 | 85 | 241530 | 40.97 | ug/L | 100 |
| 8) chloromethane | 1.779 | 50 | 185646 | 44.41 | ug/L | 98 |
| 9) vinyl chloride | 1.862 | 62 | 354805 | 60.90 | ug/L | 100 |
| 10) 1,3-butadiene | 1.891 | 54 | 150649 | 29.29 | ug/L | 98 |
| 11) bromomethane | 2.100 | 96 | 106947 | 52.89 | ug/L | 95 |
| 12) chloroethane | 2.171 | 64 | 182609 | 47.34 | ug/L | 98 |
| 13) trichlorofluoromethane | 2.337 | 101 | 346678 | 48.88 | ug/L | 95 |
| 14) ethyl ether | 2.498 | 74 | 100966 | 44.80 | ug/L | 94 |
| 15) acrolein | 2.591 | 56 | 35482 | 47.76 | ug/L | 98 |
| 16) freon 113 | 2.655 | 151 | 132726 | 44.54 | ug/L | 99 |
| 17) 1,1-dichloroethene | 2.661 | 96 | 145102 | 43.79 | ug/L | 98 |
| 18) acetone | 2.668 | 58 | 72246 | 172.62 | ug/L | 90 |
| 19) acetonitrile | 2.832 | 40 | 124337 | 435.05 | ug/L | 99 |
| 20) iodomethane | 2.764 | 142 | 101405 | 57.40 | ug/L | 98 |
| 21) iso-butyl alcohol | 2.844 | 43 | 167034 | 450.14 | ug/L | 98 |
| 22) carbon disulfide | 2.819 | 76 | 377766 | 38.16 | ug/L | 98 |
| 23) methylene chloride | 2.947 | 84 | 173969 | 44.74 | ug/L | 100 |
| 24) methyl acetate | 2.844 | 74 | 41337 | 44.78 | ug/L | 98 |
| 25) methyl tert butyl ether | 3.088 | 73 | 545360 | 46.98 | ug/L | 100 |
| 26) trans-1,2-dichloroethene | 3.104 | 96 | 168672 | 47.64 | ug/L | 99 |
| 27) hexane | 3.255 | 57 | 191058 | 41.07 | ug/L | 95 |
| 28) di-isopropyl ether | 3.345 | 45 | 530301 | 49.18 | ug/L | 99 |
| 29) ethyl tert-butyl ether | 3.550 | 59 | 536622 | 48.06 | ug/L | 98 |
| 30) 2-butanone | 3.650 | 72 | 122284 | 186.54 | ug/L | 96 |
| 31) 1,1-dichloroethane | 3.355 | 63 | 313515 | 48.42 | ug/L | 99 |
| 32) chloroprene | 3.400 | 53 | 241142 | 47.06 | ug/L | 98 |
| 33) acrylonitrile | 3.069 | 53 | 68707 | 39.14 | ug/L | 96 |
| 34) vinyl acetate | 3.326 | 86 | 46436 | 51.55 | ug/L | 99 |
| 35) ethyl acetate | 3.653 | 45 | 35633 | 46.14 | ug/L | 92 |
| 36) 2,2-dichloropropane | 3.688 | 77 | 273429 | 60.51 | ug/L | 98 |
| 37) cis-1,2-dichloroethene | 3.679 | 96 | 210353 | 52.93 | ug/L | 95 |
| 38) propionitrile | 3.688 | 54 | 318845 | 462.59 | ug/L | 94 |
| 39) methyl acrylate | 3.695 | 85 | 42251 | 48.01 | ug/L # | 89 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226621.d
Acq On : 30 Sep 2022 5:20 pm
Operator : nickw
Sample : jd52624-3msd Inst : MSDTEST1A
Misc : MS62562, V1A9705,5,,,,10
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 08:34:32 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 40) bromochloromethane | 3.817 | 128 | 100031 | 49.49 | ug/L | | 98 |
| 41) tetrahydrofuran | 3.829 | 72 | 37139 | 44.83 | ug/L | | 85 |
| 42) chloroform | 3.855 | 83 | 336439 | 46.67 | ug/L | | 98 |
| 44) methacrylonitrile | 3.778 | 67 | 103820 | 48.75 | ug/L | | 94 |
| 45) 1,1,1-trichloroethane | 3.980 | 97 | 296047 | 49.81 | ug/L | | 94 |
| 46) cyclohexane | 4.028 | 84 | 265917 | 47.32 | ug/L | | 94 |
| 47) 1,1-dichloropropene | 4.064 | 75 | 251717 | 48.66 | ug/L | | 97 |
| 48) carbon tetrachloride | 4.070 | 117 | 261951 | 51.33 | ug/L | | 97 |
| 49) isopropyl acetate | 4.147 | 87 | 53943 | 48.97 | ug/L | # | 88 |
| 50) tert amyl alcohol | 4.128 | 55 | 44254 | 210.50 | ug/L | # | 86 |
| 53) tert-amyl methyl ether | 4.224 | 73 | 555917 | 49.06 | ug/L | | 98 |
| 54) 2,2,4-trimethylpentane | 4.231 | 57 | 329396 | 36.44 | ug/L | | 96 |
| 55) n-butyl alcohol | 4.433 | 56 | 197162 | 1705.18 | ug/L | | 98 |
| 56) benzene | 4.186 | 78 | 722738 | 50.75 | ug/L | | 99 |
| 57) heptane | 4.317 | 57 | 67789 | 38.62 | ug/L | | 98 |
| 58) 1,2-dichloroethane | 4.202 | 62 | 258671 | 49.76 | ug/L | | 96 |
| 59) trichloroethene | 4.561 | 95 | 187659 | 49.49 | ug/L | | 96 |
| 60) ethyl acrylate | 4.561 | 55 | 291968 | 51.52 | ug/L | | 97 |
| 61) 2-nitropropane | 4.988 | 41 | 72535 | 44.67 | ug/L | | 89 |
| 62) 2-chloroethyl vinyl ether | 5.010 | 63 | 47017 | 55.36 | ug/L | | 97 |
| 63) methyl methacrylate | 4.706 | 100 | 69000 | 52.97 | ug/L | | 93 |
| 64) 1,2-dichloropropane | 4.718 | 63 | 179327 | 49.14 | ug/L | | 98 |
| 65) methylcyclohexane | 4.715 | 83 | 249812 | 42.91 | ug/L | | 98 |
| 66) dibromomethane | 4.776 | 93 | 128991 | 48.98 | ug/L | | 97 |
| 67) bromodichloromethane | 4.866 | 83 | 265877 | 49.45 | ug/L | | 98 |
| 68) cis-1,3-dichloropropene | 5.132 | 75 | 309237 | 52.31 | ug/L | | 96 |
| 69) epichlorohydrin | 5.059 | 57 | 58031 | 216.65 | ug/L | | 91 |
| 70) 4-methyl-2-pentanone | 5.203 | 58 | 380924 | 200.32 | ug/L | | 98 |
| 71) 3-methyl-1-butanol | 5.209 | 70 | 95917 | 731.14 | ug/L | # | 91 |
| 74) toluene | 5.360 | 92 | 453676 | 49.66 | ug/L | | 99 |
| 75) trans-1,3-dichloropropene | 5.482 | 75 | 285161 | 54.19 | ug/L | | 94 |
| 76) ethyl methacrylate | 5.489 | 69 | 281628 | 51.74 | ug/L | | 94 |
| 77) 1,1,2-trichloroethane | 5.620 | 83 | 153408 | 48.19 | ug/L | | 97 |
| 78) 2-hexanone | 5.739 | 58 | 377123 | 194.78 | ug/L | | 97 |
| 79) tetrachloroethene | 5.704 | 166 | 187519 | 48.47 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 5.736 | 76 | 303702 | 49.45 | ug/L | | 99 |
| 81) butyl acetate | 5.797 | 56 | 140373 | 51.77 | ug/L | | 99 |
| 82) dibromochloromethane | 5.886 | 129 | 210025 | 48.31 | ug/L | | 98 |
| 83) 1,2-dibromoethane | 5.983 | 107 | 200527 | 49.08 | ug/L | | 98 |
| 84) n-butyl ether | 6.320 | 57 | 678929 | 50.85 | ug/L | | 99 |
| 85) chlorobenzene | 6.313 | 112 | 502304 | 48.66 | ug/L | | 96 |
| 86) 1,1,1,2-tetrachloroethane | 6.361 | 131 | 182439 | 51.45 | ug/L | | 98 |
| 87) ethylbenzene | 6.361 | 91 | 832744 | 48.30 | ug/L | | 99 |
| 88) m,p-xylene | 6.448 | 106 | 639142 | 99.64 | ug/L | | 98 |
| 89) o-xylene | 6.718 | 106 | 322589 | 50.48 | ug/L | | 96 |
| 90) butyl acrylate | 6.634 | 55 | 398150 | 56.77 | ug/L | | 98 |
| 91) n-amyl acetate | 6.782 | 70 | 152878 | 55.21 | ug/L | | 98 |
| 92) styrene | 6.727 | 104 | 555063 | 53.18 | ug/L | | 99 |
| 93) bromoform | 6.865 | 173 | 139994 | 48.39 | ug/L | | 100 |
| 94) isopropylbenzene | 6.958 | 105 | 781457 | 48.27 | ug/L | | 99 |
| 95) cis-1,4-dichloro-2-butene | 6.987 | 88 | 62189 | 44.39 | ug/L | | 96 |
| 98) bromobenzene | 7.192 | 156 | 206200 | 53.13 | ug/L | | 96 |
| 99) 1,1,2,2-tetrachloroethane | 7.151 | 83 | 255736 | 50.10 | ug/L | | 98 |
| 100) trans-1,4-dichloro-2-b... | 7.176 | 53 | 48293 | 47.82 | ug/L | | 96 |
| 101) 1,2,3-trichloropropane | 7.202 | 110 | 79901 | 51.36 | ug/L | | 97 |
| 102) n-propylbenzene | 7.234 | 91 | 832604 | 48.64 | ug/L | | 98 |
| 103) 2-chlorotoluene | 7.308 | 126 | 181416 | 50.82 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226621.d
Acq On : 30 Sep 2022 5:20 pm
Operator : nickw
Sample : jd52624-3msd Inst : MSDTEST1A
Misc : MS62562, V1A9705,5,,,,10
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 08:34:32 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

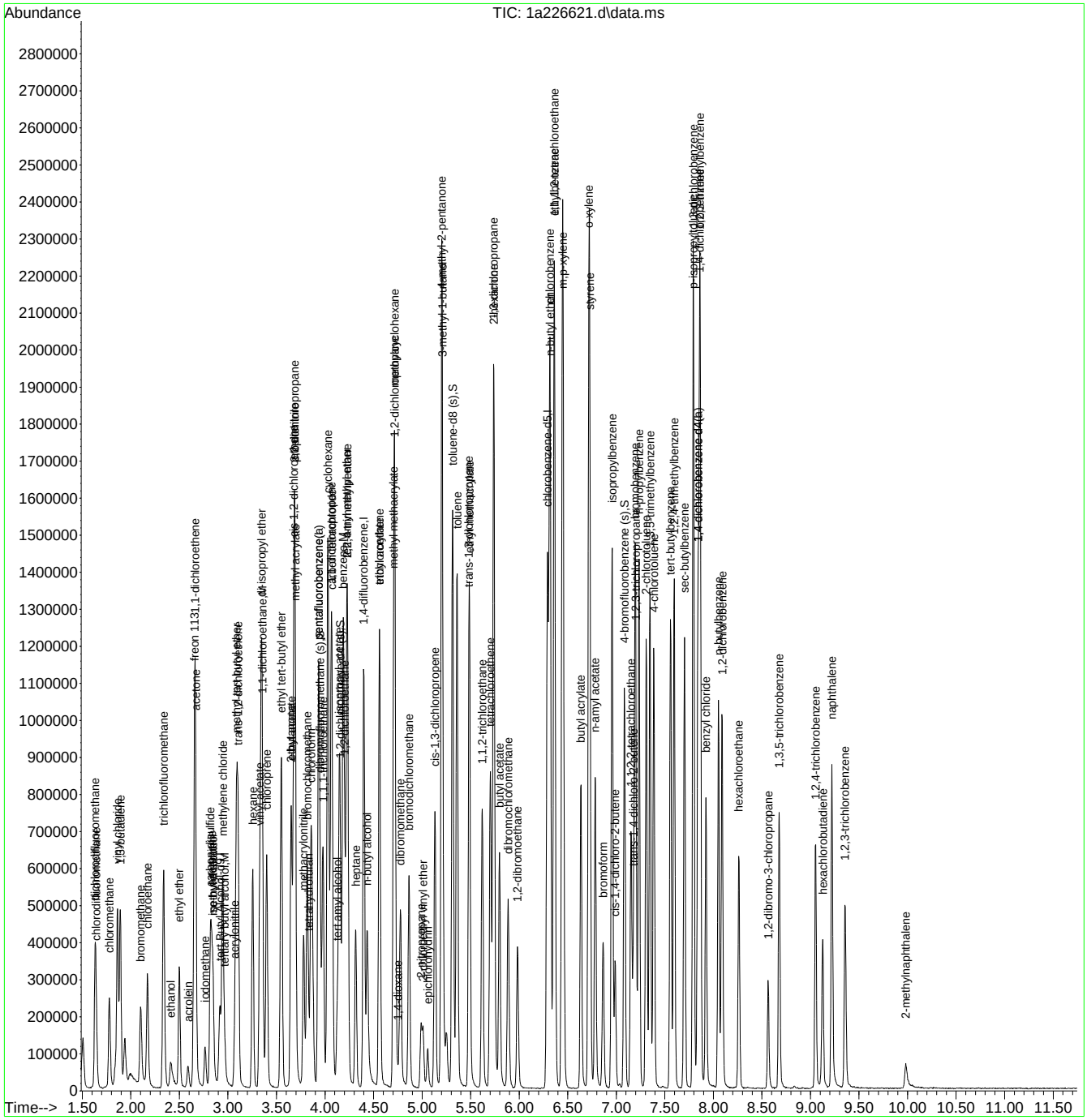
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) 4-chlorotoluene | 7.388 | 126 | 183020 | 50.46 | ug/L | 99 |
| 105) 1,3,5-trimethylbenzene | 7.346 | 105 | 557056 | 48.09 | ug/L | 99 |
| 106) tert-butylbenzene | 7.558 | 119 | 477878 | 47.30 | ug/L | 98 |
| 107) 1,2,4-trimethylbenzene | 7.597 | 105 | 575241 | 49.29 | ug/L | 97 |
| 108) sec-butylbenzene | 7.703 | 105 | 635024 | 45.16 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.796 | 146 | 325206 | 50.98 | ug/L | 98 |
| 110) p-isopropyltoluene | 7.793 | 119 | 536150 | 47.01 | ug/L | 98 |
| 111) 1,2,3-trimethylbenzene | 7.863 | 105 | 581478 | 49.20 | ug/L | 97 |
| 112) 1,4-dichlorobenzene | 7.857 | 146 | 328644 | 48.43 | ug/L | 97 |
| 113) 1,2-dichlorobenzene | 8.091 | 146 | 312580 | 51.24 | ug/L | 96 |
| 114) n-butylbenzene | 8.052 | 92 | 234035 | 47.00 | ug/L | 99 |
| 115) 1,2-dibromo-3-chloropr... | 8.566 | 157 | 58516 | 51.81 | ug/L | 93 |
| 116) 1,3,5-trichlorobenzene | 8.678 | 180 | 169212 | 46.25 | ug/L | 95 |
| 117) 1,2,4-trichlorobenzene | 9.054 | 180 | 149955 | 49.81 | ug/L | 98 |
| 118) hexachlorobutadiene | 9.127 | 225 | 49044 | 44.09 | ug/L | 91 |
| 119) naphthalene | 9.220 | 128 | 539245 | 50.99 | ug/L | 99 |
| 120) 1,2,3-trichlorobenzene | 9.355 | 180 | 124454 | 47.80 | ug/L | 94 |
| 121) hexachloroethane | 8.261 | 119 | 84892 | 47.32 | ug/L | 94 |
| 122) benzyl chloride | 7.924 | 91 | 405980 | 70.55 | ug/L | 99 |
| 123) 2-methylnaphthalene | 9.981 | 142 | 44184 | 19.04 | ug/L | 96 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226621.d
Acq On : 30 Sep 2022 5:20 pm
Operator : nickw
Sample : jd52624-3msd Inst : MSDTEST1A
Misc : MS62562, V1A9705,5,,,,10
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 08:34:32 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-4-22\v2v3782-whole batch\
Data File : 2v93140.d
Acq On : 3 Oct 2022 5:43 pm
Operator : taylors
Sample : jd52730-7ms
Misc : MS62629,V2V3782,5,,,,4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 04 09:27:21 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 279910 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 310324 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 453199 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 431442 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 191408 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 166129 | 53.68 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 107.36% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 170653 | 53.11 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 106.22% | | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 531098 | 50.01 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.02% | | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 165164 | 48.33 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.66% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.886 | 45 | 332361 | 5845.75 | ug/L | | 99 |
| 3) tertiary butyl alcohol | 2.363 | 59 | 1176116 | 1348.87 | ug/L | | 99 |
| 4) 1,4-dioxane | 4.104 | 88 | 100193 | 1403.09 | ug/L | | 92 |
| 6) chlorodifluoromethane | 1.293 | 51 | 72644 | 25.06 | ug/L | | 94 |
| 7) dichlorodifluoromethane | 1.283 | 85 | 167172 | 48.21 | ug/L | | 99 |
| 8) chloromethane | 1.393 | 52 | 77184 | 58.97 | ug/L | | 97 |
| 9) vinyl chloride | 1.451 | 62 | 293795 | 69.11 | ug/L | | 97 |
| 10) bromomethane | 1.634 | 96 | 170747 | 57.75 | ug/L | | 98 |
| 11) chloroethane | 1.687 | 64 | 322094 | 126.35 | ug/L | | 96 |
| 12) trichlorofluoromethane | 1.823 | 101 | 331097 | 52.60 | ug/L | | 98 |
| 13) 1,3-butadiene | 1.472 | 54 | 230071 | 59.00 | ug/L | | 99 |
| 14) ethyl ether | 1.954 | 74 | 111300 | 74.84 | ug/L | | 88 |
| 15) acrolein | 2.033 | 56 | 33417 | 50.56 | ug/L | | 94 |
| 16) freon 113 | 2.090 | 151 | 116054 | 46.50 | ug/L | | 96 |
| 17) 1,1-dichloroethene | 2.096 | 61 | 192999 | 51.06 | ug/L | | 99 |
| 18) acetone | 2.096 | 58 | 190122 | 475.10 | ug/L | | 95 |
| 19) acetonitrile | 2.242 | 41 | 317661 | 618.11 | ug/L | | 99 |
| 20) iodomethane | 2.185 | 142 | 122815 | 51.26 | ug/L | | 99 |
| 21) carbon disulfide | 2.232 | 76 | 273765 | 39.65 | ug/L | | 98 |
| 22) methylene chloride | 2.342 | 84 | 171438 | 60.90 | ug/L | | 92 |
| 23) methyl acetate | 2.253 | 74 | 37754 | 52.51 | ug/L | # | 70 |
| 24) methyl tert butyl ether | 2.473 | 73 | 436914 | 57.13 | ug/L | | 98 |
| 25) trans-1,2-dichloroethene | 2.489 | 96 | 141447 | 53.00 | ug/L | | 99 |
| 26) hexane | 2.630 | 56 | 73139 | 49.45 | ug/L | | 93 |
| 27) di-isopropyl ether | 2.714 | 45 | 727589 | 96.24 | ug/L | | 95 |
| 28) ethyl tert-butyl ether | 2.908 | 59 | 438732 | 58.38 | ug/L | | 97 |
| 29) 1,1-dichloroethane | 2.719 | 63 | 276877 | 60.65 | ug/L | | 99 |
| 30) chloroprene | 2.761 | 53 | 190778 | 55.89 | ug/L | | 98 |
| 31) acrylonitrile | 2.452 | 53 | 76851 | 54.70 | ug/L | | 96 |
| 32) vinyl acetate | 2.693 | 86 | 37093 | 59.74 | ug/L | # | 64 |
| 33) ethyl acetate | 3.008 | 45 | 47067 | 70.26 | ug/L | # | 57 |
| 34) 2-butanone | 3.003 | 72 | 267068 | 492.46 | ug/L | | 94 |
| 35) 2,2-dichloropropane | 3.034 | 77 | 241075 | 59.86 | ug/L | | 100 |
| 36) cis-1,2-dichloroethene | 3.024 | 96 | 184328 | 59.75 | ug/L | | 93 |
| 37) propionitrile | 3.034 | 54 | 411464 | 657.05 | ug/L | | 81 |
| 38) methyl acrylate | 3.045 | 85 | 40728 | 56.63 | ug/L | # | 70 |
| 39) bromochloromethane | 3.160 | 128 | 94350 | 58.50 | ug/L | | 97 |
| 40) tetrahydrofuran | 3.170 | 71 | 147158 | 223.36 | ug/L | | 99 |
| 41) chloroform | 3.202 | 83 | 285495 | 51.69 | ug/L | | 98 |
| 43) methacrylonitrile | 3.123 | 67 | 89437 | 58.38 | ug/L | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-4-22\v2v3782-whole batch\
Data File : 2v93140.d
Acq On : 3 Oct 2022 5:43 pm
Operator : taylors
Sample : jd52730-7ms
Misc : MS62629,V2V3782,5,,,,4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 04 09:27:21 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 1,1,1-trichloroethane | 3.317 | 97 | 244932 | 52.27 | ug/L | | 97 |
| 45) cyclohexane | 3.370 | 84 | 191162 | 52.25 | ug/L | | 95 |
| 46) 1,1-dichloropropene | 3.406 | 75 | 213282 | 58.25 | ug/L | | 99 |
| 47) carbon tetrachloride | 3.412 | 119 | 226054 | 52.21 | ug/L | | 98 |
| 48) isobutyl alcohol | 3.406 | 42 | 94640 | 714.12 | ug/L | | 96 |
| 49) tert-amyl alcohol | 3.480 | 55 | 74352 | 273.91 | ug/L | # | 78 |
| 52) n-butyl alcohol | 3.794 | 56 | 520486 | 3216.34 | ug/L | | 96 |
| 53) benzene | 3.527 | 78 | 606517 | 55.78 | ug/L | | 99 |
| 54) tert-amyl methyl ether | 3.574 | 73 | 458491 | 53.82 | ug/L | | 98 |
| 55) iso-octane | 3.579 | 57 | 283708 | 48.87 | ug/L | | 98 |
| 56) heptane | 3.668 | 57 | 54785 | 48.75 | ug/L | # | 51 |
| 57) isopropyl acetate | 3.501 | 87 | 49617 | 56.26 | ug/L | # | 82 |
| 58) 1,2-dichloroethane | 3.543 | 62 | 233957 | 51.66 | ug/L | | 99 |
| 59) trichloroethene | 3.910 | 95 | 161130 | 50.05 | ug/L | | 97 |
| 60) ethyl acrylate | 3.920 | 55 | 285139 | 56.35 | ug/L | | 99 |
| 61) 2-nitropropane | 4.355 | 41 | 57752 | 43.01 | ug/L | | 92 |
| 63) methyl methacrylate | 4.072 | 100 | 59111 | 53.53 | ug/L | # | 83 |
| 64) 1,2-dichloropropane | 4.067 | 63 | 161193 | 56.65 | ug/L | | 96 |
| 65) methylcyclohexane | 4.067 | 83 | 201184 | 50.17 | ug/L | | 96 |
| 66) dibromomethane | 4.125 | 93 | 126819 | 50.94 | ug/L | | 92 |
| 67) bromodichloromethane | 4.224 | 83 | 222660 | 50.88 | ug/L | | 99 |
| 68) epichlorohydrin | 4.429 | 57 | 131416 | 279.06 | ug/L | | 95 |
| 69) cis-1,3-dichloropropene | 4.507 | 75 | 253618 | 55.64 | ug/L | | 99 |
| 70) 4-methyl-2-pentanone | 4.586 | 58 | 885563 | 518.76 | ug/L | | 96 |
| 71) 3-methyl-1-butanol | 4.607 | 70 | 217581 | 1346.50 | ug/L | | 86 |
| 74) toluene | 4.743 | 92 | 574687 | 79.42 | ug/L | | 96 |
| 75) ethyl methacrylate | 4.906 | 69 | 238944 | 56.81 | ug/L | | 99 |
| 76) trans-1,3-dichloropropene | 4.885 | 75 | 238541 | 55.26 | ug/L | | 98 |
| 77) 1,1,2-trichloroethane | 5.021 | 83 | 135452 | 53.99 | ug/L | | 97 |
| 78) 2-hexanone | 5.163 | 58 | 458010 | 249.31 | ug/L | | 95 |
| 79) tetrachloroethene | 5.110 | 164 | 139873 | 49.84 | ug/L | | 95 |
| 80) 1,3-dichloropropane | 5.142 | 76 | 253909 | 54.90 | ug/L | | 99 |
| 81) butyl acetate | 5.236 | 56 | 133694 | 57.33 | ug/L | | 93 |
| 82) dibromochloromethane | 5.304 | 129 | 198724 | 50.38 | ug/L | | 100 |
| 83) 1,2-dibromoethane | 5.399 | 107 | 183082 | 51.97 | ug/L | | 99 |
| 84) n-butyl ether | 5.808 | 57 | 606965 | 58.75 | ug/L | | 99 |
| 85) chlorobenzene | 5.755 | 112 | 503743 | 57.79 | ug/L | | 96 |
| 86) 1,1,1,2-tetrachloroethane | 5.818 | 131 | 187450 | 54.98 | ug/L | | 99 |
| 87) ethylbenzene | 5.823 | 91 | 766915 | 56.03 | ug/L | | 100 |
| 88) m,p-xylene | 5.918 | 106 | 566997 | 106.83 | ug/L | | 98 |
| 89) o-xylene | 6.217 | 91 | 566272 | 53.96 | ug/L | | 99 |
| 90) styrene | 6.227 | 104 | 478839 | 54.99 | ug/L | | 98 |
| 91) butyl acrylate | 6.154 | 56 | 163791 | 63.34 | ug/L | | 93 |
| 92) n-amyl acetate | 6.327 | 70 | 133700 | 57.93 | ug/L | | 92 |
| 93) bromoform | 6.374 | 173 | 146955 | 50.33 | ug/L | | 99 |
| 94) isopropylbenzene | 6.500 | 105 | 659862 | 52.99 | ug/L | | 99 |
| 95) cis-1,4-dichloro-2-butene | 6.536 | 88 | 35699 | 24.52 | ug/L | | 87 |
| 98) bromobenzene | 6.751 | 156 | 190083 | 49.10 | ug/L | | 99 |
| 99) 1,1,2,2-tetrachloroethane | 6.730 | 83 | 257579 | 54.20 | ug/L | | 98 |
| 100) trans-1,4-dichloro-2-b... | 6.762 | 53 | 30415 | 27.13 | ug/L | | 96 |
| 101) 1,2,3-trichloropropane | 6.778 | 110 | 74469 | 52.71 | ug/L | | 100 |
| 102) n-propylbenzene | 6.825 | 91 | 725445 | 51.93 | ug/L | | 100 |
| 103) 2-chlorotoluene | 6.898 | 126 | 164429 | 51.35 | ug/L | | 91 |
| 104) 4-chlorotoluene | 6.987 | 126 | 169402 | 51.40 | ug/L | | 91 |
| 105) 1,3,5-trimethylbenzene | 6.961 | 105 | 495033 | 52.93 | ug/L | | 98 |
| 106) tert-butylbenzene | 7.197 | 119 | 408649 | 50.12 | ug/L | | 98 |
| 107) 1,2,4-trimethylbenzene | 7.239 | 105 | 502729 | 51.50 | ug/L | | 98 |
| 108) sec-butylbenzene | 7.360 | 105 | 577748 | 52.30 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-4-22\v2v3782-whole batch\
Data File : 2v93140.d
Acq On : 3 Oct 2022 5:43 pm
Operator : taylors
Sample : jd52730-7ms
Misc : MS62629,V2V3782,5,,,,4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 04 09:27:21 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

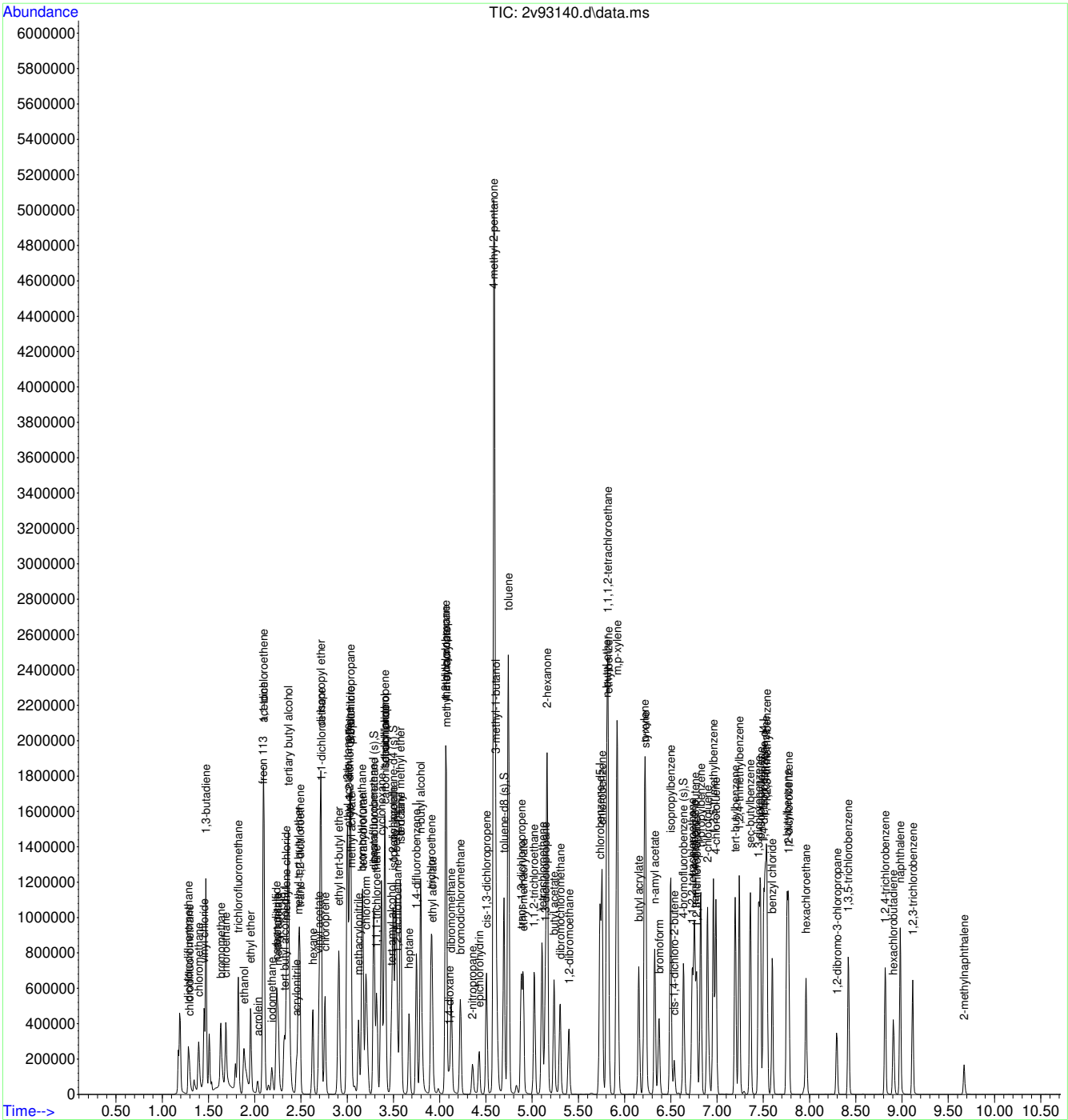
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 318983 | 49.98 | ug/L | 100 |
| 110) p-isopropyltoluene | 7.470 | 119 | 483205 | 51.57 | ug/L | 98 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 521749 | 53.45 | ug/L | 98 |
| 112) 1,4-dichlorobenzene | 7.522 | 146 | 332893 | 50.00 | ug/L | 99 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 312974 | 52.03 | ug/L | 98 |
| 114) benzyl chloride | 7.595 | 91 | 381559 | 61.59 | ug/L | 98 |
| 115) n-butylbenzene | 7.758 | 92 | 216372 | 54.29 | ug/L | 96 |
| 116) hexachloroethane | 7.962 | 201 | 64967 | 44.70 | ug/L | 94 |
| 117) 1,2-dibromo-3-chloropr... | 8.298 | 157 | 65188 | 51.19 | ug/L | 95 |
| 118) 1,3,5-trichlorobenzene | 8.419 | 180 | 168711 | 49.97 | ug/L | 99 |
| 119) 1,2,4-trichlorobenzene | 8.817 | 180 | 148944 | 50.31 | ug/L | 98 |
| 120) hexachlorobutadiene | 8.906 | 225 | 48005 | 45.92 | ug/L | 97 |
| 121) naphthalene | 8.980 | 128 | 494644 | 49.72 | ug/L | 100 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 128970 | 48.56 | ug/L | 99 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 61326 | 18.13 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-4-22\v2v3782-whole batch\
Data File : 2v93140.d
Acq On : 3 Oct 2022 5:43 pm
Operator : taylors
Sample : jd52730-7ms
Misc : MS62629,V2V3782,5,,,,4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 04 09:27:21 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-4-22\v2v3782-whole batch\
Data File : 2v93141.d
Acq On : 3 Oct 2022 6:07 pm
Operator : taylors
Sample : jd52730-7msd
Misc : MS62629,V2V3782,5,,,,4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 04 09:27:31 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 283609 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 319145 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 467307 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 440038 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.501 | 152 | 200167 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 170599 | 53.61 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 107.22% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.496 | 65 | 175481 | 52.96 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 105.92% | | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 557932 | 51.51 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.02% | | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 171498 | 47.99 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.98% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) ethanol | 1.886 | 45 | 360097 | 6250.98 | ug/L | | 97 |
| 3) tertiary butyl alcohol | 2.363 | 59 | 1241027 | 1404.75 | ug/L | | 98 |
| 4) 1,4-dioxane | 4.104 | 88 | 103860 | 1435.47 | ug/L | | 96 |
| 6) chlorodifluoromethane | 1.294 | 51 | 77796 | 26.10 | ug/L | | 94 |
| 7) dichlorodifluoromethane | 1.283 | 85 | 179924 | 50.45 | ug/L | | 98 |
| 8) chloromethane | 1.393 | 52 | 79962 | 59.40 | ug/L | | 99 |
| 9) vinyl chloride | 1.451 | 62 | 304442 | 69.64 | ug/L | | 95 |
| 10) bromomethane | 1.634 | 96 | 212962 | 70.04 | ug/L | | 94 |
| 11) chloroethane | 1.687 | 64 | 329350 | 125.63 | ug/L | | 97 |
| 12) trichlorofluoromethane | 1.823 | 101 | 344941 | 53.29 | ug/L | | 98 |
| 13) 1,3-butadiene | 1.472 | 54 | 225520 | 56.23 | ug/L | | 100 |
| 14) ethyl ether | 1.954 | 74 | 115401 | 75.45 | ug/L | | 87 |
| 15) acrolein | 2.033 | 56 | 36779 | 54.11 | ug/L | | 95 |
| 16) freon 113 | 2.090 | 151 | 124322 | 48.44 | ug/L | | 98 |
| 17) 1,1-dichloroethene | 2.096 | 61 | 206256 | 53.06 | ug/L | | 99 |
| 18) acetone | 2.096 | 58 | 202032 | 490.91 | ug/L | | 98 |
| 19) acetonitrile | 2.243 | 41 | 329619 | 623.65 | ug/L | | 98 |
| 20) iodomethane | 2.185 | 142 | 168152 | 64.96 | ug/L | | 99 |
| 21) carbon disulfide | 2.232 | 76 | 293766 | 41.37 | ug/L | | 99 |
| 22) methylene chloride | 2.342 | 84 | 181772 | 62.79 | ug/L | | 91 |
| 23) methyl acetate | 2.253 | 74 | 40357 | 54.58 | ug/L | # | 78 |
| 24) methyl tert butyl ether | 2.473 | 73 | 461133 | 58.63 | ug/L | | 98 |
| 25) trans-1,2-dichloroethene | 2.489 | 96 | 147268 | 53.66 | ug/L | | 99 |
| 26) hexane | 2.631 | 56 | 76258 | 50.13 | ug/L | | 96 |
| 27) di-isopropyl ether | 2.714 | 45 | 763261 | 98.17 | ug/L | | 94 |
| 28) ethyl tert-butyl ether | 2.908 | 59 | 463723 | 60.00 | ug/L | | 98 |
| 29) 1,1-dichloroethane | 2.720 | 63 | 288894 | 61.53 | ug/L | | 99 |
| 30) chloroprene | 2.762 | 53 | 199632 | 56.87 | ug/L | | 99 |
| 31) acrylonitrile | 2.452 | 53 | 79482 | 55.01 | ug/L | | 98 |
| 32) vinyl acetate | 2.693 | 86 | 38617 | 60.48 | ug/L | # | 61 |
| 33) ethyl acetate | 3.008 | 45 | 50181 | 72.84 | ug/L | # | 61 |
| 34) 2-butanone | 3.003 | 72 | 280717 | 503.32 | ug/L | # | 91 |
| 35) 2,2-dichloropropane | 3.034 | 77 | 258090 | 62.31 | ug/L | | 99 |
| 36) cis-1,2-dichloroethene | 3.024 | 96 | 194043 | 61.16 | ug/L | | 92 |
| 37) propionitrile | 3.034 | 54 | 429611 | 667.07 | ug/L | | 83 |
| 38) methyl acrylate | 3.045 | 85 | 42832 | 57.91 | ug/L | # | 85 |
| 39) bromochloromethane | 3.160 | 128 | 98438 | 59.34 | ug/L | | 95 |
| 40) tetrahydrofuran | 3.171 | 71 | 153529 | 226.58 | ug/L | | 98 |
| 41) chloroform | 3.202 | 83 | 301213 | 53.03 | ug/L | | 99 |
| 43) methacrylonitrile | 3.123 | 67 | 91046 | 57.78 | ug/L | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-4-22\v2v3782-whole batch\
Data File : 2v93141.d
Acq On : 3 Oct 2022 6:07 pm
Operator : taylors
Sample : jd52730-7msd
Misc : MS62629,V2V3782,5,,,,4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 04 09:27:31 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 44) | 1,1,1-trichloroethane | 3.317 | 97 | 261198 | 54.21 | ug/L | | 99 |
| 45) | cyclohexane | 3.370 | 84 | 198648 | 52.79 | ug/L | | 94 |
| 46) | 1,1-dichloropropene | 3.406 | 75 | 222751 | 59.15 | ug/L | | 99 |
| 47) | carbon tetrachloride | 3.412 | 119 | 241870 | 54.31 | ug/L | | 99 |
| 48) | isobutyl alcohol | 3.401 | 42 | 98306 | 721.28 | ug/L | | 95 |
| 49) | tert-amyl alcohol | 3.480 | 55 | 78143 | 279.91 | ug/L | # | 74 |
| 52) | n-butyl alcohol | 3.794 | 56 | 550381 | 3298.40 | ug/L | | 98 |
| 53) | benzene | 3.522 | 78 | 636051 | 56.73 | ug/L | | 98 |
| 54) | tert-amyl methyl ether | 3.574 | 73 | 485028 | 55.22 | ug/L | | 97 |
| 55) | iso-octane | 3.579 | 57 | 289550 | 48.37 | ug/L | | 98 |
| 56) | heptane | 3.669 | 57 | 55333 | 47.75 | ug/L | # | 54 |
| 57) | isopropyl acetate | 3.501 | 87 | 52255 | 57.47 | ug/L | # | 85 |
| 58) | 1,2-dichloroethane | 3.543 | 62 | 245466 | 52.57 | ug/L | | 99 |
| 59) | trichloroethene | 3.910 | 95 | 168679 | 50.82 | ug/L | | 96 |
| 60) | ethyl acrylate | 3.920 | 55 | 296678 | 56.86 | ug/L | | 99 |
| 61) | 2-nitropropane | 4.355 | 41 | 60952 | 44.02 | ug/L | | 97 |
| 63) | methyl methacrylate | 4.072 | 100 | 62454 | 54.85 | ug/L | # | 76 |
| 64) | 1,2-dichloropropane | 4.067 | 63 | 170287 | 58.04 | ug/L | | 99 |
| 65) | methylcyclohexane | 4.067 | 83 | 214923 | 51.98 | ug/L | | 97 |
| 66) | dibromomethane | 4.125 | 93 | 131903 | 51.39 | ug/L | | 94 |
| 67) | bromodichloromethane | 4.224 | 83 | 238303 | 52.81 | ug/L | | 100 |
| 68) | epichlorohydrin | 4.429 | 57 | 134402 | 276.78 | ug/L | | 94 |
| 69) | cis-1,3-dichloropropene | 4.508 | 75 | 267203 | 56.85 | ug/L | | 99 |
| 70) | 4-methyl-2-pentanone | 4.586 | 58 | 923441 | 524.62 | ug/L | | 96 |
| 71) | 3-methyl-1-butanol | 4.607 | 70 | 232077 | 1392.85 | ug/L | | 88 |
| 74) | toluene | 4.743 | 92 | 625248 | 84.72 | ug/L | | 99 |
| 75) | ethyl methacrylate | 4.906 | 69 | 253447 | 59.09 | ug/L | | 99 |
| 76) | trans-1,3-dichloropropene | 4.880 | 75 | 250876 | 56.98 | ug/L | | 97 |
| 77) | 1,1,2-trichloroethane | 5.021 | 83 | 144211 | 56.36 | ug/L | | 94 |
| 78) | 2-hexanone | 5.163 | 58 | 480105 | 256.23 | ug/L | | 97 |
| 79) | tetrachloroethene | 5.105 | 164 | 144313 | 50.41 | ug/L | | 99 |
| 80) | 1,3-dichloropropane | 5.142 | 76 | 265861 | 56.37 | ug/L | | 99 |
| 81) | butyl acetate | 5.236 | 56 | 140721 | 59.17 | ug/L | | 96 |
| 82) | dibromochloromethane | 5.304 | 129 | 210050 | 52.21 | ug/L | | 99 |
| 83) | 1,2-dibromoethane | 5.399 | 107 | 190734 | 53.08 | ug/L | | 99 |
| 84) | n-butyl ether | 5.808 | 57 | 649637 | 61.65 | ug/L | | 99 |
| 85) | chlorobenzene | 5.755 | 112 | 537062 | 60.41 | ug/L | | 97 |
| 86) | 1,1,1,2-tetrachloroethane | 5.813 | 131 | 199091 | 57.25 | ug/L | | 97 |
| 87) | ethylbenzene | 5.818 | 91 | 808167 | 57.89 | ug/L | | 100 |
| 88) | m,p-xylene | 5.918 | 106 | 603839 | 111.55 | ug/L | | 99 |
| 89) | o-xylene | 6.217 | 91 | 617445 | 57.69 | ug/L | | 100 |
| 90) | styrene | 6.227 | 104 | 520983 | 58.66 | ug/L | | 97 |
| 91) | butyl acrylate | 6.154 | 56 | 170991 | 64.83 | ug/L | | 96 |
| 92) | n-amyl acetate | 6.327 | 70 | 142739 | 60.64 | ug/L | | 94 |
| 93) | bromoform | 6.374 | 173 | 156939 | 52.70 | ug/L | | 99 |
| 94) | isopropylbenzene | 6.500 | 105 | 705458 | 55.55 | ug/L | | 98 |
| 95) | cis-1,4-dichloro-2-butene | 6.537 | 88 | 41916 | 28.23 | ug/L | | 92 |
| 98) | bromobenzene | 6.752 | 156 | 204241 | 50.45 | ug/L | | 99 |
| 99) | 1,1,2,2-tetrachloroethane | 6.731 | 83 | 267827 | 53.89 | ug/L | | 99 |
| 100) | trans-1,4-dichloro-2-b... | 6.762 | 53 | 35020 | 29.88 | ug/L | | 99 |
| 101) | 1,2,3-trichloropropane | 6.778 | 110 | 75419 | 51.04 | ug/L | | 94 |
| 102) | n-propylbenzene | 6.825 | 91 | 782311 | 53.55 | ug/L | | 99 |
| 103) | 2-chlorotoluene | 6.898 | 126 | 174458 | 52.10 | ug/L | | 94 |
| 104) | 4-chlorotoluene | 6.987 | 126 | 183152 | 53.14 | ug/L | | 91 |
| 105) | 1,3,5-trimethylbenzene | 6.961 | 105 | 528995 | 54.09 | ug/L | | 99 |
| 106) | tert-butylbenzene | 7.197 | 119 | 435574 | 51.08 | ug/L | | 97 |
| 107) | 1,2,4-trimethylbenzene | 7.239 | 105 | 546862 | 53.57 | ug/L | | 98 |
| 108) | sec-butylbenzene | 7.360 | 105 | 617375 | 53.44 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-4-22\v2v3782-whole batch\
Data File : 2v93141.d
Acq On : 3 Oct 2022 6:07 pm
Operator : taylors
Sample : jd52730-7msd
Misc : MS62629,V2V3782,5,,,,4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 04 09:27:31 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

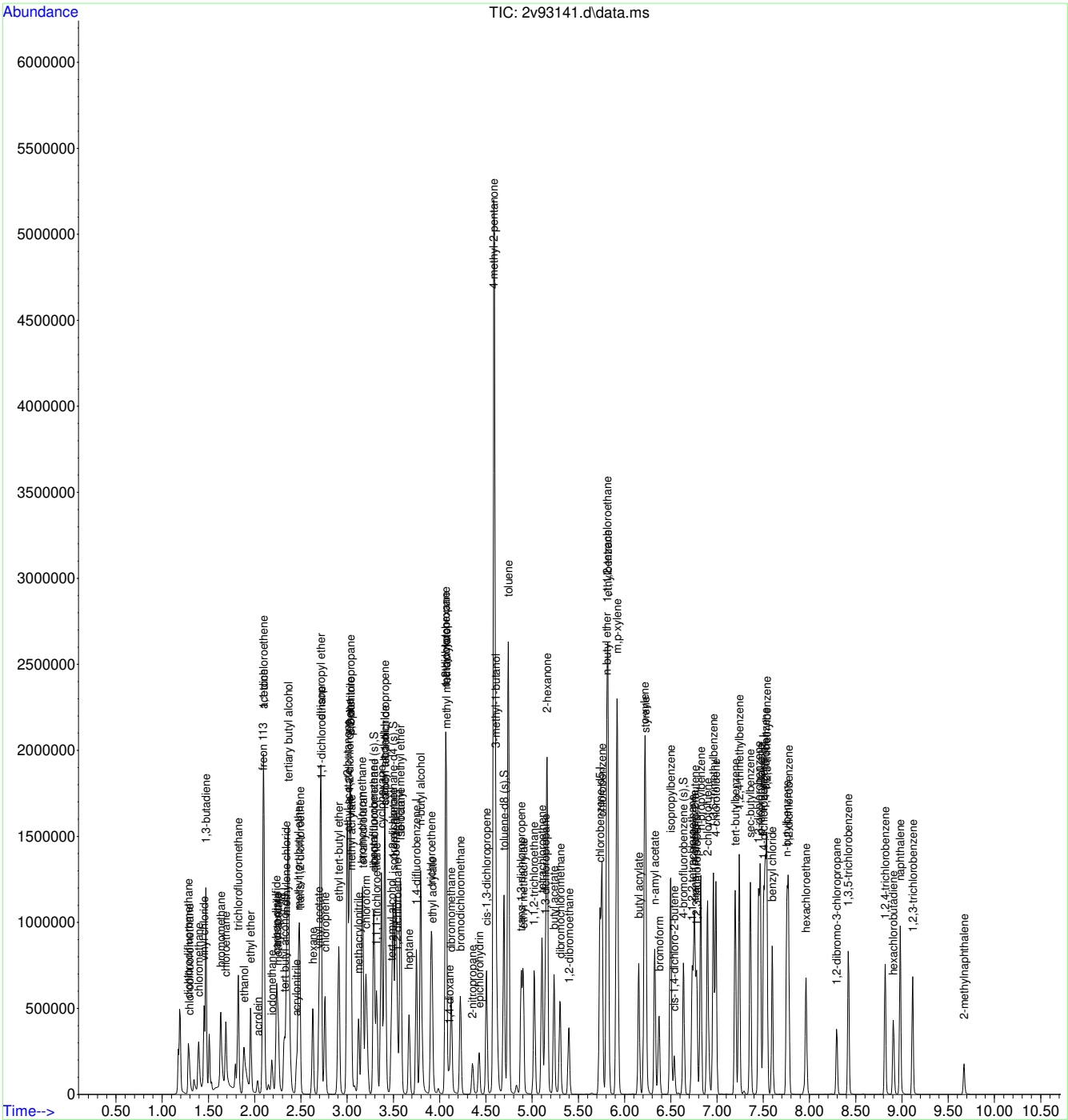
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 340077 | 50.96 | ug/L | 100 |
| 110) p-isopropyltoluene | 7.470 | 119 | 523711 | 53.45 | ug/L | 99 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 571819 | 56.02 | ug/L | 98 |
| 112) 1,4-dichlorobenzene | 7.522 | 146 | 357919 | 51.41 | ug/L | 98 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 338454 | 53.80 | ug/L | 99 |
| 114) benzyl chloride | 7.596 | 91 | 405350 | 62.57 | ug/L | 98 |
| 115) n-butylbenzene | 7.753 | 92 | 230707 | 55.35 | ug/L | 94 |
| 116) hexachloroethane | 7.963 | 201 | 68556 | 45.10 | ug/L | 87 |
| 117) 1,2-dibromo-3-chloropr... | 8.293 | 157 | 68942 | 51.77 | ug/L | 92 |
| 118) 1,3,5-trichlorobenzene | 8.419 | 180 | 177221 | 50.19 | ug/L | 99 |
| 119) 1,2,4-trichlorobenzene | 8.817 | 180 | 154291 | 49.84 | ug/L | 99 |
| 120) hexachlorobutadiene | 8.906 | 225 | 50592 | 46.28 | ug/L | 97 |
| 121) naphthalene | 8.980 | 128 | 511715 | 49.18 | ug/L | 100 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 135795 | 48.89 | ug/L | 100 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 64362 | 18.20 | ug/L | 95 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-4-22\v2v3782-whole batch\
Data File : 2v93141.d
Acq On : 3 Oct 2022 6:07 pm
Operator : taylors
Sample : jd52730-7msd
Misc : MS62629,V2V3782,5,,,,4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 04 09:27:31 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\luckyc\06 oct 2022\vl10519\
Data File : l347847.d
Acq On : 4 Oct 2022 5:40 pm
Operator : nicoleh
Sample : jd52507-37ms Inst : GCMSL
Misc : MS62506,VL10519,5,,,,5
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 23:53:27 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.085 | 65 | 149943 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.308 | 168 | 206470 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.876 | 114 | 315623 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.273 | 117 | 310949 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.471 | 152 | 121183 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.308 | 168 | 205233 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.471 | 152 | 121183 | 50.00 | ug/L | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.318 | 113 | 93551 | 50.17 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.34% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.568 | 65 | 99046 | 43.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 86.00% | | | | |
| 73) toluene-d8 (s) | 6.025 | 98 | 379510 | 44.34 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 88.68% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.351 | 95 | 144968 | 45.92 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 91.84% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.312 | 88 | 12674 | 324.16 | ug/L | | 89 |
| 3) ethanol | 2.505 | 45 | 78902 | 2107.92 | ug/L | | 96 |
| 4) tertiary butyl alcohol | 3.140 | 59 | 110624 | 240.72 | ug/L | | 97 |
| 6) chlorodifluoromethane | 1.680 | 51 | 71110 | 30.80 | ug/L | # | 85 |
| 7) dichlorodifluoromethane | 1.657 | 85 | 175055 | 51.93 | ug/L | | 95 |
| 8) chloromethane | 1.818 | 50 | 100771 | 44.73 | ug/L | | 100 |
| 9) vinyl chloride | 1.901 | 62 | 123970 | 44.61 | ug/L | | 99 |
| 10) 1,3-butadiene | 1.930 | 54 | 97263 | 35.60 | ug/L | | 95 |
| 11) bromomethane | 2.158 | 96 | 35676 | 30.83 | ug/L | | 93 |
| 12) chloroethane | 2.235 | 64 | 66170 | 40.72 | ug/L | | 99 |
| 13) trichlorofluoromethane | 2.421 | 101 | 196201 | 50.48 | ug/L | | 97 |
| 14) ethyl ether | 2.601 | 74 | 77164 | 56.83 | ug/L | | 91 |
| 15) acrolein | 2.707 | 56 | 9298 | 18.86 | ug/L | | 91 |
| 16) freon 113 | 2.781 | 151 | 86909 | 56.80 | ug/L | | 85 |
| 17) 1,1-dichloroethene | 2.784 | 96 | 99635 | 52.27 | ug/L | | 95 |
| 18) acetone | 2.797 | 58 | 66351 | 198.14 | ug/L | | 90 |
| 19) acetonitrile | 2.986 | 40 | 92303 | 425.42 | ug/L | | 93 |
| 20) iodomethane | 2.899 | 142 | 74209 | 42.76 | ug/L | | 93 |
| 21) iso-butyl alcohol | 4.456 | 43 | 66176 | 303.22 | ug/L | | 92 |
| 22) carbon disulfide | 2.960 | 76 | 245085 | 41.79 | ug/L | | 97 |
| 23) methylene chloride | 3.114 | 84 | 120683 | 54.38 | ug/L | | 97 |
| 24) methyl acetate | 3.005 | 74 | 34224 | 50.93 | ug/L | # | 85 |
| 25) methyl tert butyl ether | 3.281 | 73 | 367672 | 50.95 | ug/L | | 94 |
| 26) trans-1,2-dichloroethene | 3.300 | 96 | 121572 | 58.95 | ug/L | | 93 |
| 27) hexane | 3.477 | 57 | 161437 | 55.67 | ug/L | | 94 |
| 28) di-isopropyl ether | 3.586 | 45 | 346476 | 59.17 | ug/L | | 96 |
| 29) ethyl tert-butyl ether | 3.833 | 59 | 387650 | 56.49 | ug/L | | 95 |
| 30) 2-butanone | 3.952 | 72 | 99159 | 192.77 | ug/L | | 99 |
| 31) 1,1-dichloroethane | 3.596 | 63 | 195528 | 54.00 | ug/L | | 97 |
| 32) chloroprene | 3.647 | 53 | 162646 | 55.22 | ug/L | | 93 |
| 33) acrylonitrile | 3.265 | 53 | 22628 | 19.00 | ug/L | | 89 |
| 34) vinyl acetate | 3.567 | 86 | 34089 | 54.57 | ug/L | # | 76 |
| 35) ethyl acetate | 3.961 | 45 | 27694 | 53.02 | ug/L | # | 1 |
| 36) 2,2-dichloropropane | 3.997 | 77 | 148251 | 42.09 | ug/L | | 93 |
| 37) cis-1,2-dichloroethene | 3.984 | 96 | 653834 | 280.27 | ug/L | | 95 |
| 38) propionitrile | 4.000 | 54 | 208890 | 424.90 | ug/L | | 92 |
| 39) methyl acrylate | 4.010 | 85 | 26001 | 42.90 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\luckyc\06 oct 2022\vl10519\
Data File : l347847.d
Acq On : 4 Oct 2022 5:40 pm
Operator : nicoleh
Sample : jd52507-37ms Inst : GCMSL
Misc : MS62506,VL10519,5,,,,5
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 23:53:27 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 40) bromochloromethane | 4.154 | 128 | 54197 | 53.33 | ug/L | | 86 |
| 41) tetrahydrofuran | 4.164 | 72 | 28140 | 48.96 | ug/L | | 93 |
| 42) chloroform | 4.205 | 83 | 202263 | 48.77 | ug/L | | 96 |
| 44) methacrylonitrile | 4.109 | 67 | 72158 | 50.03 | ug/L | | 100 |
| 45) 1,1,1-trichloroethane | 4.347 | 97 | 181926 | 51.18 | ug/L | | 96 |
| 46) cyclohexane | 4.407 | 84 | 143635 | 43.91 | ug/L | | 91 |
| 47) 1,1-dichloropropene | 4.456 | 75 | 144112 | 50.75 | ug/L | | 96 |
| 48) carbon tetrachloride | 4.459 | 117 | 141599 | 48.06 | ug/L | | 98 |
| 49) isopropyl acetate | 4.571 | 87 | 37657 | 51.08 | ug/L | # | 75 |
| 50) tert amyl alcohol | 4.545 | 55 | 43305 | 185.42 | ug/L | # | 90 |
| 53) tert-amyl methyl ether | 4.661 | 73 | 339959 | 48.37 | ug/L | | 96 |
| 54) 2,2,4-trimethylpentane | 4.661 | 57 | 306341 | 54.85 | ug/L | | 97 |
| 55) n-butyl alcohol | 4.931 | 56 | 192440 | 1229.82 | ug/L | | 99 |
| 56) benzene | 4.600 | 78 | 431489 | 52.51 | ug/L | | 98 |
| 57) heptane | 4.777 | 57 | 65501 | 50.84 | ug/L | # | 77 |
| 58) 1,2-dichloroethane | 4.626 | 62 | 147241 | 47.48 | ug/L | | 98 |
| 59) trichloroethene | 5.069 | 95 | 252007 | 108.44 | ug/L | | 97 |
| 60) ethyl acrylate | 5.088 | 55 | 207107 | 53.77 | ug/L | | 99 |
| 61) 2-nitropropane | 5.620 | 41 | 49841 | 44.23 | ug/L | | 93 |
| 62) 2-chloroethyl vinyl ether | 5.649 | 63 | 36901 | 27.43 | ug/L | | 95 |
| 63) methyl methacrylate | 5.264 | 100 | 43851 | 48.88 | ug/L | | 96 |
| 64) 1,2-dichloropropane | 5.271 | 63 | 113187 | 55.83 | ug/L | | 89 |
| 65) methylcyclohexane | 5.261 | 83 | 188053 | 51.38 | ug/L | | 95 |
| 66) dibromomethane | 5.338 | 93 | 75620 | 50.60 | ug/L | | 97 |
| 67) bromodichloromethane | 5.457 | 83 | 162486 | 47.72 | ug/L | | 93 |
| 68) cis-1,3-dichloropropene | 5.797 | 75 | 192206 | 50.32 | ug/L | | 96 |
| 69) epichlorohydrin | 5.707 | 57 | 100399 | 228.05 | ug/L | | 96 |
| 70) 4-methyl-2-pentanone | 5.893 | 58 | 298717 | 211.91 | ug/L | | 93 |
| 71) 3-methyl-1-butanol | 5.912 | 70 | 95266 | 552.08 | ug/L | # | 81 |
| 74) toluene | 6.079 | 92 | 289705 | 49.62 | ug/L | | 98 |
| 75) trans-1,3-dichloropropene | 6.253 | 75 | 164201 | 40.62 | ug/L | | 97 |
| 76) ethyl methacrylate | 6.269 | 69 | 193985 | 47.67 | ug/L | | 98 |
| 77) 1,1,2-trichloroethane | 6.423 | 83 | 101671 | 49.98 | ug/L | | 93 |
| 78) 2-hexanone | 6.583 | 58 | 296632 | 183.36 | ug/L | | 92 |
| 79) tetrachloroethene | 6.516 | 166 | 123198 | 52.67 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 6.564 | 76 | 188791 | 47.75 | ug/L | | 99 |
| 81) butyl acetate | 6.667 | 56 | 110975 | 52.59 | ug/L | | 93 |
| 82) dibromochloromethane | 6.760 | 129 | 120337 | 44.26 | ug/L | | 97 |
| 83) 1,2-dibromoethane | 6.875 | 107 | 127800 | 46.91 | ug/L | | 98 |
| 84) n-butyl ether | 7.340 | 57 | 470954 | 54.03 | ug/L | | 96 |
| 85) chlorobenzene | 7.302 | 112 | 307918 | 51.60 | ug/L | | 95 |
| 86) 1,1,1,2-tetrachloroethane | 7.373 | 131 | 104370 | 48.31 | ug/L | | 95 |
| 87) ethylbenzene | 7.376 | 91 | 512044 | 49.95 | ug/L | | 99 |
| 88) m,p-xylene | 7.485 | 106 | 387793 | 94.37 | ug/L | | 99 |
| 89) o-xylene | 7.844 | 106 | 203969 | 49.63 | ug/L | | 98 |
| 90) butyl acrylate | 7.764 | 55 | 283893 | 53.96 | ug/L | | 98 |
| 91) styrene | 7.860 | 104 | 328206 | 49.24 | ug/L | | 99 |
| 92) bromoform | 8.040 | 173 | 81735 | 42.72 | ug/L | | 91 |
| 93) isopropylbenzene | 8.181 | 105 | 516630 | 50.07 | ug/L | | 97 |
| 94) cis-1,4-dichloro-2-butene | 8.236 | 88 | 25518 | 33.26 | ug/L | # | 83 |
| 97) bromobenzene | 8.502 | 156 | 120284 | 48.91 | ug/L | | 89 |
| 98) 1,1,2,2-tetrachloroethane | 8.464 | 83 | 186413 | 45.96 | ug/L | | 97 |
| 99) trans-1,4-dichloro-2-b... | 8.505 | 53 | 20900 | 36.26 | ug/L | | 90 |
| 100) 1,2,3-trichloropropane | 8.528 | 110 | 50631 | 43.34 | ug/L | | 98 |
| 101) n-propylbenzene | 8.576 | 91 | 577351 | 49.74 | ug/L | | 99 |
| 102) 2-chlorotoluene | 8.672 | 126 | 115279 | 50.47 | ug/L | | 94 |
| 103) 4-chlorotoluene | 8.788 | 126 | 111850 | 48.84 | ug/L | | 92 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\luckyc\06 oct 2022\vl10519\
Data File : l347847.d
Acq On : 4 Oct 2022 5:40 pm
Operator : nicoleh
Sample : jd52507-37ms Inst : GCMSL
Misc : MS62506,VL10519,5,,,,5
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 23:53:27 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) 1,3,5-trimethylbenzene | 8.743 | 105 | 399128 | 47.96 | ug/L | 99 |
| 105) tert-butylbenzene | 9.051 | 119 | 354744 | 50.86 | ug/L | 96 |
| 106) 1,2,4-trimethylbenzene | 9.105 | 105 | 403333 | 47.35 | ug/L | 98 |
| 107) sec-butylbenzene | 9.266 | 105 | 497801 | 49.93 | ug/L | 99 |
| 108) 1,3-dichlorobenzene | 9.397 | 146 | 211554 | 50.94 | ug/L | 98 |
| 109) p-isopropyltoluene | 9.413 | 119 | 388590 | 49.42 | ug/L | 98 |
| 110) 1,4-dichlorobenzene | 9.494 | 146 | 198434 | 48.73 | ug/L | 98 |
| 111) 1,2,3-trimethylbenzene | 9.510 | 105 | 378042 | 46.77 | ug/L | 99 |
| 112) 1,2-dichlorobenzene | 9.847 | 146 | 193280 | 47.30 | ug/L | 99 |
| 113) n-butylbenzene | 9.811 | 92 | 208034 | 52.87 | ug/L | 99 |
| 114) 1,2-dibromo-3-chloropr... | 10.614 | 157 | 44070 | 45.99 | ug/L | 90 |
| 115) 1,3,5-trichlorobenzene | 10.803 | 180 | 141017 | 53.49 | ug/L | 94 |
| 116) 1,2,4-trichlorobenzene | 11.432 | 180 | 117012 | 54.81 | ug/L | 91 |
| 117) hexachlorobutadiene | 11.567 | 225 | 45882 | 53.67 | ug/L | 95 |
| 118) naphthalene | 11.695 | 128 | 364719 | 50.59 | ug/L | 100 |
| 119) 1,2,3-trichlorobenzene | 11.916 | 180 | 102427 | 52.99 | ug/L | 93 |
| 120) hexachloroethane | 10.113 | 119 | 79951 | 49.04 | ug/L | 98 |
| 121) benzyl chloride | 9.596 | 91 | 310884 | 44.17 | ug/L | 99 |
| 122) 2-methylnaphthalene | 12.831 | 142 | 66619 | 25.81 | ug/L | 96 |

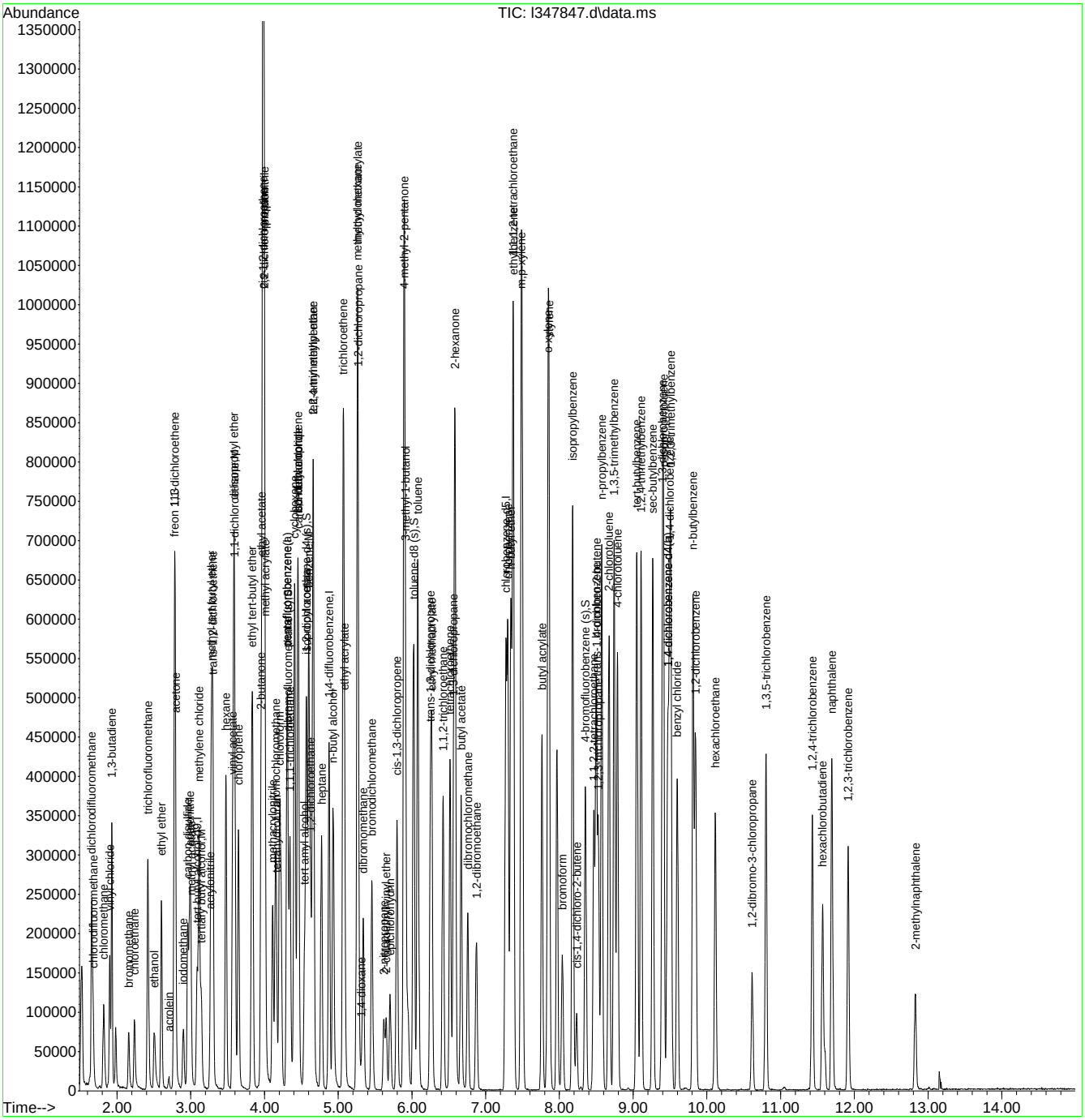
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\luckyc\06 oct 2022\vl10519\
Data File : l347847.d
Acq On : 4 Oct 2022 5:40 pm
Operator : nicoleh
Sample : jd52507-37ms Inst : GCMSL
Misc : MS62506,VL10519,5,,,,5
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 23:53:27 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\luckyc\06 oct 2022\vl10519\
Data File : l347848.d
Acq On : 4 Oct 2022 6:03 pm
Operator : nicoleh
Sample : jd52507-37msd Inst : GCMSL
Misc : MS62506,VL10519,5,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 23:54:47 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.085 | 65 | 152808 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.308 | 168 | 208578 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.876 | 114 | 319842 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.273 | 117 | 311290 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 123232 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.308 | 168 | 209214 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.468 | 152 | 123232 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.314 | 113 | 91617 | 48.63 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.26% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.571 | 65 | 99326 | 42.55 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 85.10% | | | | |
| 73) toluene-d8 (s) | 6.025 | 98 | 381309 | 44.50 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 89.00% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.351 | 95 | 150397 | 46.85 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.70% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.309 | 88 | 12141 | 304.71 | ug/L | | 93 |
| 3) ethanol | 2.508 | 45 | 74140 | 1943.57 | ug/L | | 97 |
| 4) tertiary butyl alcohol | 3.143 | 59 | 107158 | 228.80 | ug/L | | 97 |
| 6) chlorodifluoromethane | 1.673 | 51 | 70136 | 30.07 | ug/L | # | 90 |
| 7) dichlorodifluoromethane | 1.657 | 85 | 174525 | 51.25 | ug/L | | 99 |
| 8) chloromethane | 1.818 | 50 | 102596 | 45.08 | ug/L | | 96 |
| 9) vinyl chloride | 1.901 | 62 | 125279 | 44.62 | ug/L | | 98 |
| 10) 1,3-butadiene | 1.930 | 54 | 99473 | 36.04 | ug/L | | 92 |
| 11) bromomethane | 2.158 | 96 | 44373 | 37.96 | ug/L | | 90 |
| 12) chloroethane | 2.238 | 64 | 66160 | 40.30 | ug/L | | 97 |
| 13) trichlorofluoromethane | 2.421 | 101 | 200315 | 51.02 | ug/L | | 96 |
| 14) ethyl ether | 2.601 | 74 | 78412 | 57.17 | ug/L | | 80 |
| 15) acrolein | 2.707 | 56 | 10023 | 20.12 | ug/L | | 96 |
| 16) freon 113 | 2.781 | 151 | 85670 | 55.43 | ug/L | | 90 |
| 17) 1,1-dichloroethene | 2.784 | 96 | 98435 | 51.12 | ug/L | | 94 |
| 18) acetone | 2.793 | 58 | 66933 | 197.86 | ug/L | | 88 |
| 19) acetonitrile | 2.986 | 40 | 96670 | 441.05 | ug/L | | 97 |
| 20) iodomethane | 2.899 | 142 | 93405 | 52.89 | ug/L | | 98 |
| 21) iso-butyl alcohol | 4.452 | 43 | 67379 | 305.61 | ug/L | | 89 |
| 22) carbon disulfide | 2.960 | 76 | 254836 | 43.01 | ug/L | | 98 |
| 23) methylene chloride | 3.114 | 84 | 120670 | 53.83 | ug/L | | 97 |
| 24) methyl acetate | 2.999 | 74 | 36238 | 53.38 | ug/L | | 88 |
| 25) methyl tert butyl ether | 3.281 | 73 | 380585 | 52.21 | ug/L | | 96 |
| 26) trans-1,2-dichloroethene | 3.300 | 96 | 121148 | 58.15 | ug/L | | 96 |
| 27) hexane | 3.477 | 57 | 160437 | 54.76 | ug/L | | 98 |
| 28) di-isopropyl ether | 3.586 | 45 | 348862 | 58.97 | ug/L | | 97 |
| 29) ethyl tert-butyl ether | 3.836 | 59 | 388234 | 56.00 | ug/L | | 96 |
| 30) 2-butanone | 3.958 | 72 | 101792 | 195.89 | ug/L | # | 83 |
| 31) 1,1-dichloroethane | 3.596 | 63 | 196706 | 53.78 | ug/L | | 94 |
| 32) chloroprene | 3.650 | 53 | 163741 | 55.03 | ug/L | | 89 |
| 33) acrylonitrile | 3.262 | 53 | 24144 | 20.07 | ug/L | | 97 |
| 34) vinyl acetate | 3.570 | 86 | 33555 | 53.17 | ug/L | # | 91 |
| 35) ethyl acetate | 3.965 | 45 | 28082 | 53.22 | ug/L | # | 1 |
| 36) 2,2-dichloropropane | 3.997 | 77 | 150054 | 42.17 | ug/L | | 91 |
| 37) cis-1,2-dichloroethene | 3.984 | 96 | 660592 | 280.30 | ug/L | | 93 |
| 38) propionitrile | 4.003 | 54 | 218343 | 439.64 | ug/L | | 98 |
| 39) methyl acrylate | 4.010 | 85 | 26149 | 42.71 | ug/L | # | 75 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\luckyc\06 oct 2022\vl10519\
Data File : l347848.d
Acq On : 4 Oct 2022 6:03 pm
Operator : nicoleh
Sample : jd52507-37msd Inst : GCMSL
Misc : MS62506,VL10519,5,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 23:54:47 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 40) bromochloromethane | 4.151 | 128 | 55334 | 53.89 | ug/L | | 94 |
| 41) tetrahydrofuran | 4.160 | 72 | 28097 | 48.39 | ug/L | | 91 |
| 42) chloroform | 4.205 | 83 | 206834 | 49.37 | ug/L | | 95 |
| 44) methacrylonitrile | 4.115 | 67 | 78549 | 53.92 | ug/L | | 96 |
| 45) 1,1,1-trichloroethane | 4.346 | 97 | 182887 | 50.93 | ug/L | | 96 |
| 46) cyclohexane | 4.404 | 84 | 144078 | 43.60 | ug/L | | 96 |
| 47) 1,1-dichloropropene | 4.452 | 75 | 148008 | 51.60 | ug/L | | 99 |
| 48) carbon tetrachloride | 4.462 | 117 | 144832 | 48.66 | ug/L | | 99 |
| 49) isopropyl acetate | 4.571 | 87 | 39729 | 53.35 | ug/L | # | 88 |
| 50) tert amyl alcohol | 4.545 | 55 | 46385 | 196.60 | ug/L | # | 79 |
| 53) tert-amyl methyl ether | 4.661 | 73 | 345490 | 48.51 | ug/L | | 96 |
| 54) 2,2,4-trimethylpentane | 4.664 | 57 | 306909 | 54.22 | ug/L | | 97 |
| 55) n-butyl alcohol | 4.931 | 56 | 184910 | 1166.11 | ug/L | | 94 |
| 56) benzene | 4.603 | 78 | 440164 | 52.86 | ug/L | | 97 |
| 57) heptane | 4.776 | 57 | 64506 | 49.41 | ug/L | | 89 |
| 58) 1,2-dichloroethane | 4.626 | 62 | 146764 | 46.70 | ug/L | | 96 |
| 59) trichloroethene | 5.072 | 95 | 259835 | 110.34 | ug/L | | 93 |
| 60) ethyl acrylate | 5.088 | 55 | 215022 | 55.09 | ug/L | | 95 |
| 61) 2-nitropropane | 5.624 | 41 | 51189 | 44.82 | ug/L | | 88 |
| 62) 2-chloroethyl vinyl ether | 5.649 | 63 | 21956 | 16.10 | ug/L | | 98 |
| 63) methyl methacrylate | 5.271 | 100 | 47730 | 52.50 | ug/L | | 91 |
| 64) 1,2-dichloropropane | 5.267 | 63 | 116816 | 56.86 | ug/L | | 93 |
| 65) methylcyclohexane | 5.261 | 83 | 192960 | 52.03 | ug/L | | 94 |
| 66) dibromomethane | 5.344 | 93 | 79520 | 52.51 | ug/L | | 93 |
| 67) bromodichloromethane | 5.457 | 83 | 168571 | 48.85 | ug/L | | 90 |
| 68) cis-1,3-dichloropropene | 5.797 | 75 | 196654 | 50.80 | ug/L | | 98 |
| 69) epichlorohydrin | 5.704 | 57 | 104535 | 234.31 | ug/L | | 99 |
| 70) 4-methyl-2-pentanone | 5.893 | 58 | 314370 | 220.08 | ug/L | | 90 |
| 71) 3-methyl-1-butanol | 5.916 | 70 | 95968 | 548.81 | ug/L | # | 71 |
| 74) toluene | 6.079 | 92 | 295150 | 50.50 | ug/L | | 100 |
| 75) trans-1,3-dichloropropene | 6.253 | 75 | 170950 | 42.24 | ug/L | | 96 |
| 76) ethyl methacrylate | 6.269 | 69 | 196586 | 48.26 | ug/L | | 97 |
| 77) 1,1,2-trichloroethane | 6.419 | 83 | 105182 | 51.65 | ug/L | | 96 |
| 78) 2-hexanone | 6.586 | 58 | 311430 | 192.30 | ug/L | | 93 |
| 79) tetrachloroethene | 6.519 | 166 | 123461 | 52.72 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 6.567 | 76 | 193579 | 48.90 | ug/L | | 98 |
| 81) butyl acetate | 6.667 | 56 | 115328 | 54.60 | ug/L | | 99 |
| 82) dibromochloromethane | 6.756 | 129 | 123396 | 45.33 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 6.875 | 107 | 130380 | 47.80 | ug/L | | 97 |
| 84) n-butyl ether | 7.340 | 57 | 486389 | 55.74 | ug/L | | 95 |
| 85) chlorobenzene | 7.299 | 112 | 314034 | 52.57 | ug/L | | 96 |
| 86) 1,1,1,2-tetrachloroethane | 7.369 | 131 | 107280 | 49.60 | ug/L | | 95 |
| 87) ethylbenzene | 7.376 | 91 | 520635 | 50.73 | ug/L | | 98 |
| 88) m,p-xylene | 7.488 | 106 | 395923 | 96.24 | ug/L | | 94 |
| 89) o-xylene | 7.844 | 106 | 207848 | 50.52 | ug/L | | 99 |
| 90) butyl acrylate | 7.761 | 55 | 289959 | 55.05 | ug/L | | 96 |
| 91) styrene | 7.860 | 104 | 333650 | 50.00 | ug/L | | 97 |
| 92) bromoform | 8.043 | 173 | 83773 | 43.74 | ug/L | | 99 |
| 93) isopropylbenzene | 8.181 | 105 | 524847 | 50.81 | ug/L | | 97 |
| 94) cis-1,4-dichloro-2-butene | 8.236 | 88 | 28799 | 37.49 | ug/L | | 85 |
| 97) bromobenzene | 8.499 | 156 | 127745 | 51.08 | ug/L | | 87 |
| 98) 1,1,2,2-tetrachloroethane | 8.467 | 83 | 192424 | 46.65 | ug/L | | 95 |
| 99) trans-1,4-dichloro-2-b... | 8.502 | 53 | 22983 | 39.21 | ug/L | # | 86 |
| 100) 1,2,3-trichloropropane | 8.531 | 110 | 51968 | 43.75 | ug/L | | 98 |
| 101) n-propylbenzene | 8.573 | 91 | 586505 | 49.69 | ug/L | | 99 |
| 102) 2-chlorotoluene | 8.672 | 126 | 122122 | 52.57 | ug/L | | 88 |
| 103) 4-chlorotoluene | 8.788 | 126 | 112658 | 48.38 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\luckyc\06 oct 2022\vl10519\
Data File : l347848.d
Acq On : 4 Oct 2022 6:03 pm
Operator : nicoleh
Sample : jd52507-37msd Inst : GCMSL
Misc : MS62506,VL10519,5,,,,5
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 23:54:47 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

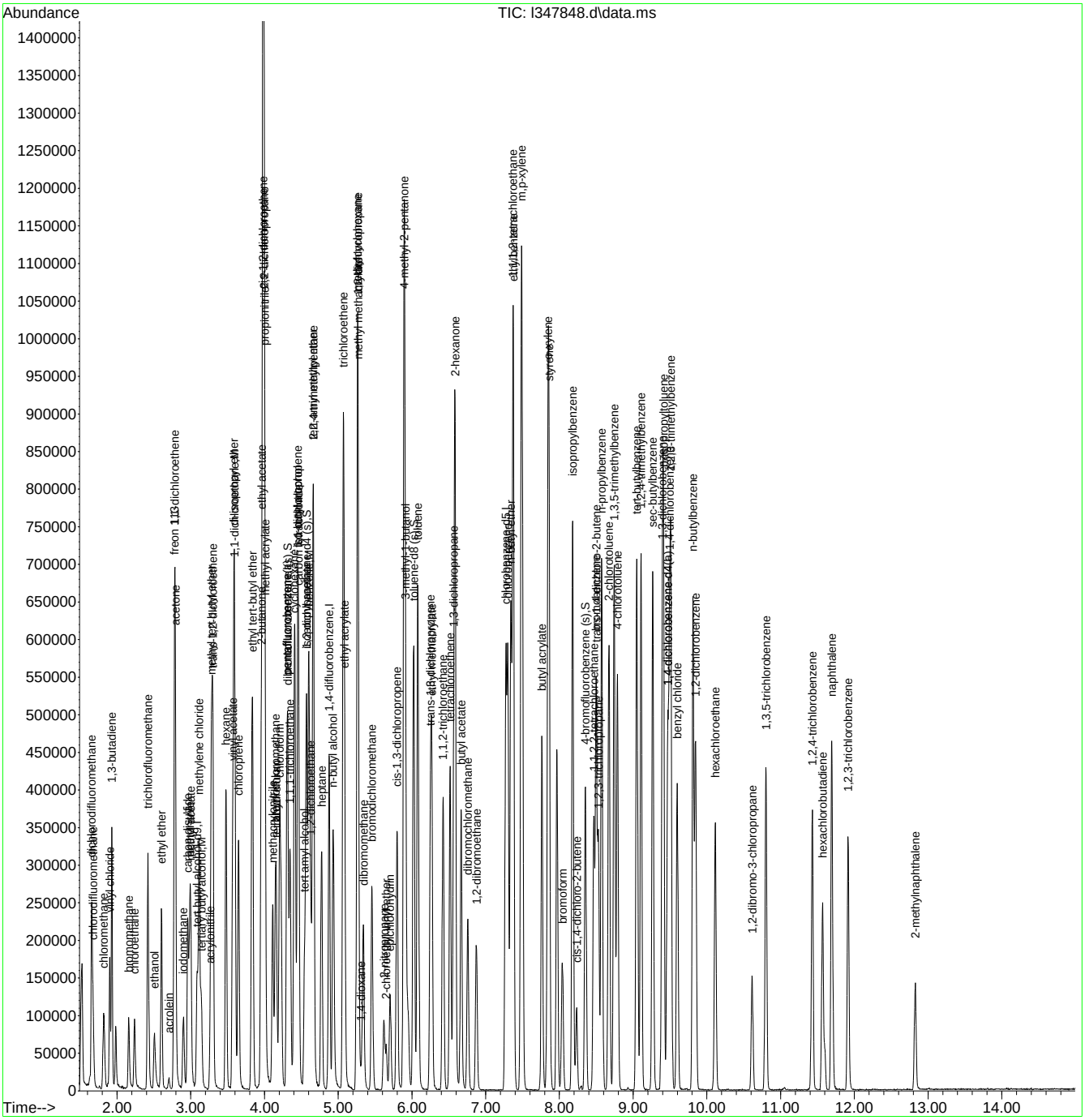
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) 1,3,5-trimethylbenzene | 8.746 | 105 | 402485 | 47.56 | ug/L | 96 |
| 105) tert-butylbenzene | 9.051 | 119 | 365823 | 51.57 | ug/L | 100 |
| 106) 1,2,4-trimethylbenzene | 9.108 | 105 | 405726 | 46.84 | ug/L | 99 |
| 107) sec-butylbenzene | 9.266 | 105 | 502945 | 49.60 | ug/L | 99 |
| 108) 1,3-dichlorobenzene | 9.394 | 146 | 219453 | 51.96 | ug/L | 96 |
| 109) p-isopropyltoluene | 9.413 | 119 | 393538 | 49.22 | ug/L | 97 |
| 110) 1,4-dichlorobenzene | 9.494 | 146 | 204460 | 49.37 | ug/L | 97 |
| 111) 1,2,3-trimethylbenzene | 9.510 | 105 | 386958 | 47.07 | ug/L | 98 |
| 112) 1,2-dichlorobenzene | 9.847 | 146 | 201276 | 48.44 | ug/L | 97 |
| 113) n-butylbenzene | 9.811 | 92 | 212344 | 53.06 | ug/L | 98 |
| 114) 1,2-dibromo-3-chloropr... | 10.617 | 157 | 45934 | 47.14 | ug/L | 85 |
| 115) 1,3,5-trichlorobenzene | 10.803 | 180 | 148725 | 55.47 | ug/L | 94 |
| 116) 1,2,4-trichlorobenzene | 11.432 | 180 | 124421 | 57.31 | ug/L | 97 |
| 117) hexachlorobutadiene | 11.570 | 225 | 48043 | 55.27 | ug/L | 97 |
| 118) naphthalene | 11.695 | 128 | 393037 | 53.61 | ug/L | 98 |
| 119) 1,2,3-trichlorobenzene | 11.913 | 180 | 110393 | 56.16 | ug/L | 96 |
| 120) hexachloroethane | 10.116 | 119 | 76942 | 46.41 | ug/L | 98 |
| 121) benzyl chloride | 9.599 | 91 | 321899 | 44.98 | ug/L | 98 |
| 122) 2-methylnaphthalene | 12.828 | 142 | 75251 | 28.67 | ug/L | 94 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\luckyc\06 oct 2022\vl10519\
Data File : l347848.d
Acq On : 4 Oct 2022 6:03 pm
Operator : nicoleh
Sample : jd52507-37msd Inst : GCMSL
Misc : MS62506,VL10519,5,,,,5
ALS Vial : 23 Sample Multiplier: 1

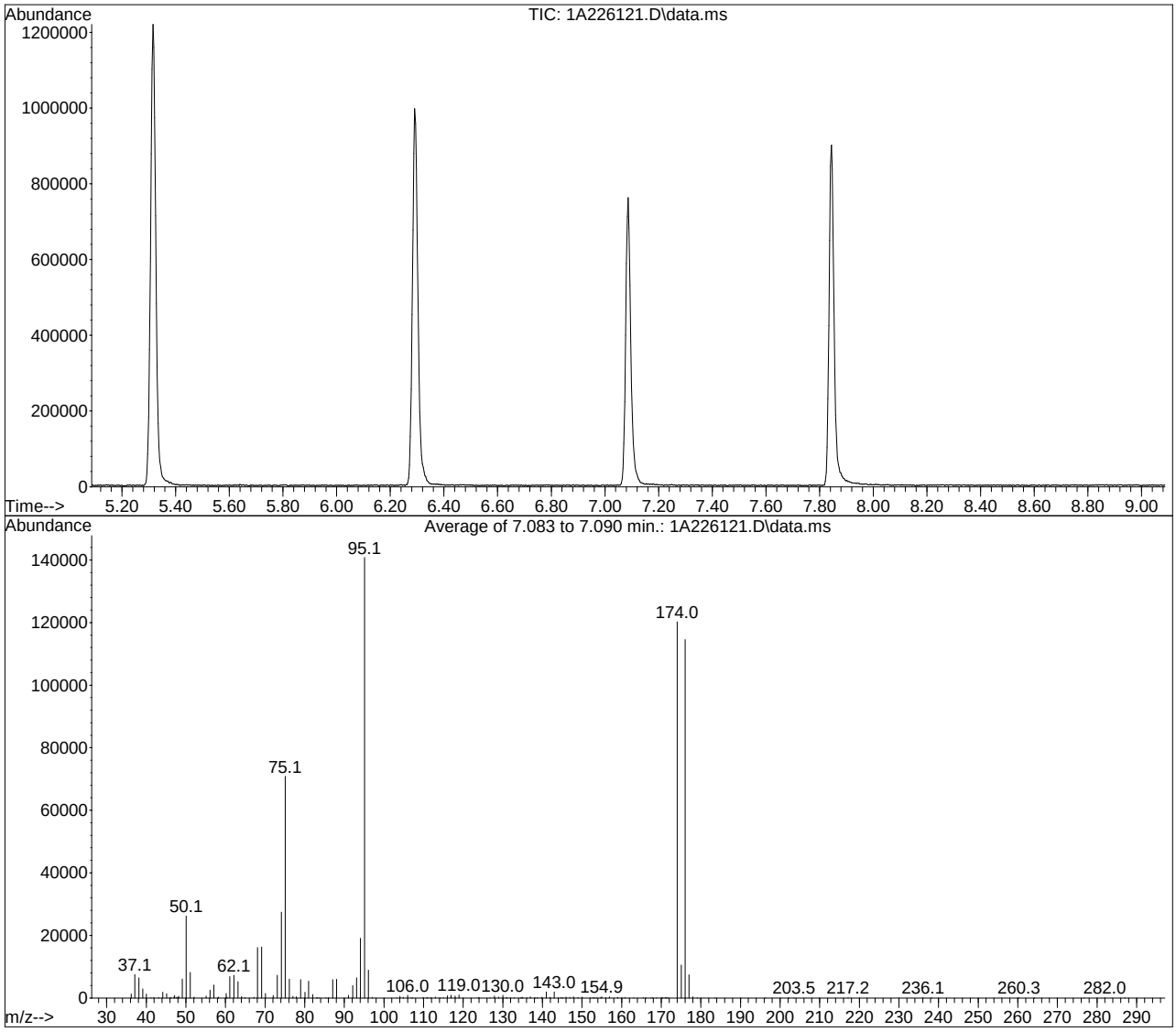
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 23:54:47 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration



SW-846 Method 8260

Data File : C:\msdchem\1\data\V1A9688\1A226121.D  Vial: 1
Acq On : 13 Sep 2022 8:54 pm  Operator: PrashanS
Sample : BFB  Inst : MSDTEST1A
Misc : MS62100, V1A9688,5,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M1A9688.M (RTE Integrator)
Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um




Spectrum Information: Average of 7.083 to 7.090 min.

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 18.6 | 26189 | PASS |
| 75 | 95 | 30 | 60 | 50.3 | 70837 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 140797 | PASS |
| 96 | 95 | 5 | 9 | 6.3 | 8869 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 85.4 | 120203 | PASS |
| 175 | 174 | 5 | 9 | 8.8 | 10540 | PASS |
| 176 | 174 | 95 | 101 | 95.3 | 114547 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 7444 | PASS |

1A226121.D M1A9688.M Tue Sep 20 17:32:45 2022 1A

Average of 7.083 to 7.090 min.: 1A226121.D\data.ms
BFB

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.20 | 1275.67 | 46.30 | 130 | 56.10 | 2496.67 | 68.10 | 16096.7 |
| 37.10 | 7481.33 | 47.00 | 337.333 | 57.10 | 4148.67 | 69.10 | 16264 |
| 38.15 | 6448 | 47.15 | 749.333 | 58.25 | 265.667 | 70.10 | 1419.67 |
| 39.15 | 2951 | 47.70 | 222.667 | 60.15 | 1464.67 | 72.05 | 790.333 |
| 40.05 | 1247 | 48.00 | 334.667 | 60.40 | 332.333 | 73.10 | 7223.67 |
| 41.20 | 77.6667 | 48.20 | 510.667 | 61.10 | 6820 | 74.10 | 27453.3 |
| 41.90 | 91 | 49.10 | 6035 | 62.15 | 7298.33 | 75.10 | 70837.3 |
| 43.15 | 159.333 | 50.10 | 26189.3 | 63.15 | 5230.33 | 76.10 | 6062.67 |
| 44.15 | 1834 | 51.10 | 8193.33 | 64.10 | 493 | 77.05 | 572.667 |
| 45.15 | 1326.33 | 52.10 | 306.667 | 64.90 | 102 | 77.90 | 365.333 |
| 45.90 | 70 | 55.15 | 600.667 | 67.20 | 207.333 | 79.00 | 5904.67 |

Average of 7.083 to 7.090 min.: 1A226121.D\data.ms
BFB

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 80.05 | 1812.33 | 92.15 | 4021.67 | 107.20 | 64 | 118.95 | 914 |
| 81.00 | 5389.67 | 93.10 | 6447 | 109.85 | 94 | 123.90 | 104 |
| 82.00 | 1098.67 | 94.10 | 19114.7 | 110.80 | 41.3333 | 124.10 | 34.6667 |
| 82.90 | 71.6667 | 95.10 | 140797 | 111.05 | 146 | 126.80 | 38.6667 |
| 83.20 | 69.3333 | 96.10 | 8868.67 | 111.85 | 118.667 | 127.90 | 628.667 |
| 83.60 | 46 | 97.05 | 251.667 | 113.00 | 265 | 129.00 | 312.333 |
| 85.40 | 36.6667 | 103.20 | 52 | 114.20 | 40.3333 | 130.00 | 861.667 |
| 86.05 | 132.333 | 104.05 | 535.667 | 115.00 | 152 | 130.90 | 63.6667 |
| 87.10 | 5895.33 | 104.90 | 179 | 116.05 | 704 | 131.05 | 96.6667 |
| 88.05 | 5939.67 | 106.00 | 877.333 | 116.95 | 888 | 131.90 | 42.3333 |
| 91.05 | 860.667 | 106.90 | 83.3333 | 118.00 | 644 | 132.90 | 36 |

Average of 7.083 to 7.090 min.: 1A226121.D\data.ms
BFB

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 134.50 | 34.6667 | 144.00 | 62.6667 | 153.70 | 80 | 167.40 | 37 |
| 134.80 | 120.667 | 144.70 | 102.667 | 154.70 | 114.667 | 167.80 | 67.6667 |
| 135.00 | 210.667 | 145.10 | 88.6667 | 154.95 | 393.667 | 168.80 | 42 |
| 136.20 | 36.6667 | 145.95 | 276 | 156.00 | 37.3333 | 170.15 | 86.6667 |
| 136.95 | 408.667 | 146.95 | 223 | 156.90 | 340.333 | 170.40 | 89 |
| 138.20 | 37.6667 | 147.85 | 343.333 | 159.00 | 176 | 171.00 | 141.333 |
| 138.70 | 101.667 | 149.00 | 105.667 | 160.10 | 34.3333 | 171.30 | 128.667 |
| 139.80 | 231 | 150.05 | 257.333 | 160.85 | 139.667 | 171.60 | 117.667 |
| 141.00 | 1909.67 | 152.20 | 49.3333 | 163.10 | 42 | 174.00 | 120203 |
| 141.95 | 211 | 152.80 | 42 | 165.50 | 38.3333 | 175.05 | 10540 |
| 143.00 | 1920.67 | 153.15 | 167.333 | 166.20 | 46 | 176.00 | 114547 |

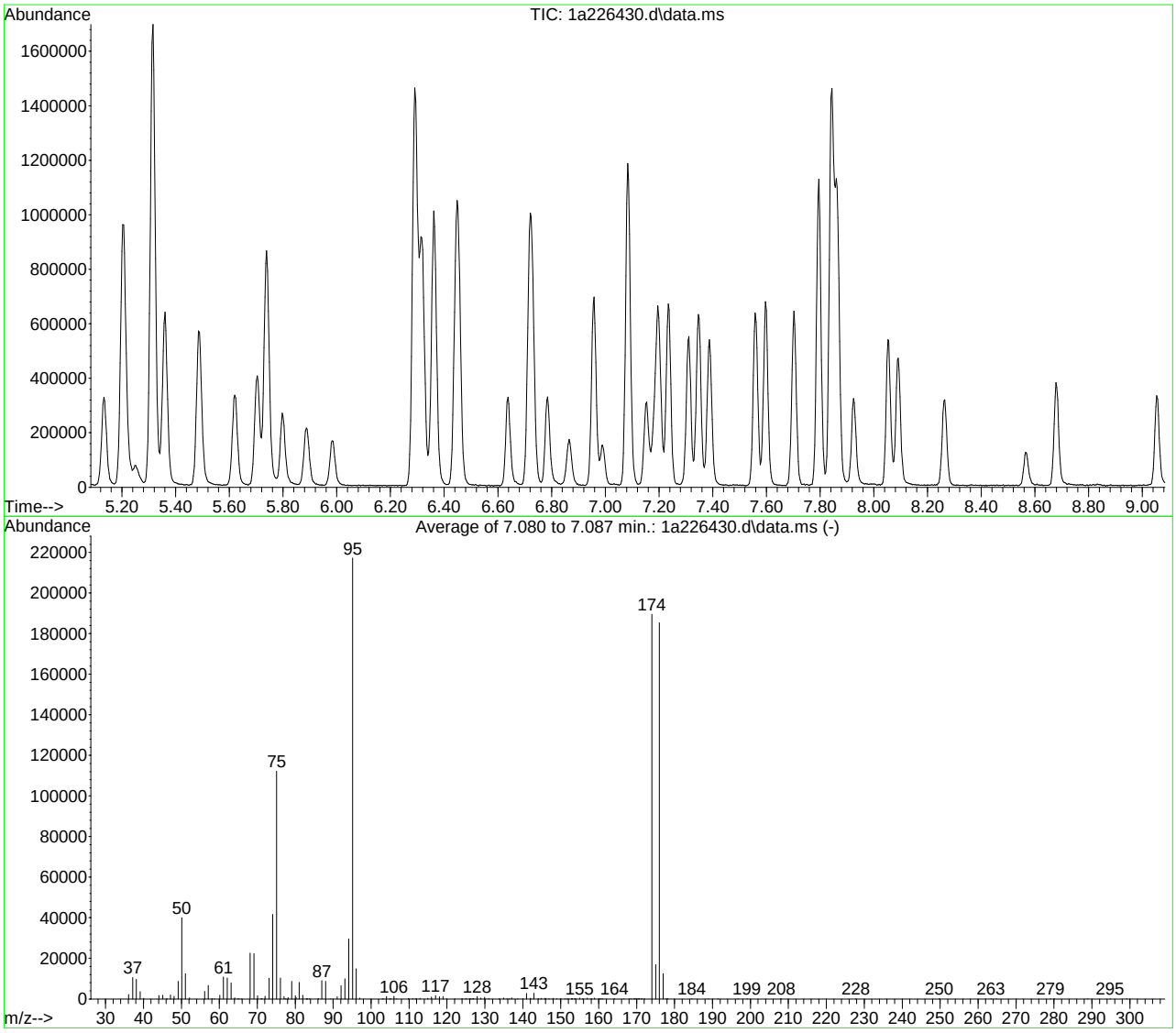
Average of 7.083 to 7.090 min.: 1A226121.D\data.ms
BFB

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 177.00 | 7444 | 264.20 | 36.3333 | | | | |
| 177.95 | 366.667 | 276.80 | 36.6667 | | | | |
| 179.10 | 38 | 282.00 | 42.6667 | | | | |
| 183.60 | 40 | 287.10 | 36 | | | | |
| 196.40 | 48.3333 | | | | | | |
| 202.30 | 33.3333 | | | | | | |
| 203.50 | 73.6667 | | | | | | |
| 217.20 | 36.3333 | | | | | | |
| 236.10 | 83.3333 | | | | | | |
| 238.30 | 36 | | | | | | |
| 260.30 | 36.6667 | | | | | | |

SW-846 Method 8260

Data File : C:\msdchem\1\data\re...22\v1a9698\1a226430.d Vial: 2
Acq On : 27 Sep 2022 9:36 am Operator: nickw
Sample : BFB Inst : MSDTEST1A
Misc : MS62471, V1A9698,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M1A9688.M (RTE Integrator)
Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um




AutoFind: Scans 1744, 1745, 1746; Background Corrected with Scan 1732

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 18.4 | 40068 | PASS |
| 75 | 95 | 30 | 60 | 51.7 | 112197 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 217195 | PASS |
| 96 | 95 | 5 | 9 | 6.9 | 14884 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 87.3 | 189525 | PASS |
| 175 | 174 | 5 | 9 | 8.9 | 16888 | PASS |
| 176 | 174 | 95 | 101 | 97.8 | 185365 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 12437 | PASS |

1a226430.d M1A9688.M Tue Sep 27 22:10:56 2022

Average of 7.080 to 7.087 min.: 1a226430.d\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.10 | 2166 | 50.10 | 40068 | 64.05 | 541 | 74.10 | 41752 |
| 37.15 | 10593 | 51.05 | 12446 | 64.95 | 105 | 75.10 | 112197 |
| 38.10 | 9624 | 52.15 | 620 | 65.20 | 51 | 76.10 | 10353 |
| 39.10 | 3664 | 56.15 | 3772 | 65.90 | 56 | 77.05 | 1186 |
| 40.05 | 361 | 57.10 | 6598 | 68.10 | 22608 | 77.50 | 143 |
| 44.10 | 1713 | 58.15 | 224 | 69.10 | 22312 | 78.10 | 681 |
| 45.10 | 1832 | 58.80 | 69 | 70.10 | 1592 | 79.05 | 8662 |
| 46.20 | 223 | 60.15 | 1791 | 71.00 | 81 | 80.00 | 1581 |
| 47.15 | 1988 | 61.10 | 10793 | 71.25 | 157 | 80.20 | 708 |
| 48.05 | 1376 | 62.10 | 10329 | 72.05 | 1341 | 81.05 | 8157 |
| 49.15 | 8621 | 63.10 | 7946 | 73.10 | 10179 | 82.00 | 1895 |

Average of 7.080 to 7.087 min.: 1a226430.d\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 82.95 | 124 | 94.10 | 29613 | 109.80 | 222 | 122.10 | 64 |
| 83.10 | 181 | 95.10 | 217195 | 110.95 | 233 | 123.95 | 228 |
| 83.30 | 43 | 96.10 | 14884 | 111.70 | 75 | 124.90 | 99 |
| 83.80 | 43 | 97.05 | 509 | 112.00 | 93 | 125.10 | 45 |
| 86.10 | 257 | 103.00 | 41 | 112.90 | 382 | 125.95 | 141 |
| 87.00 | 9103 | 103.20 | 76 | 114.95 | 334 | 126.30 | 46 |
| 88.05 | 8710 | 104.05 | 1200 | 115.95 | 928 | 126.60 | 79 |
| 89.40 | 35 | 104.90 | 39 | 117.00 | 1694 | 126.90 | 97 |
| 91.05 | 1057 | 105.15 | 253 | 118.00 | 1025 | 127.05 | 172 |
| 92.10 | 6536 | 106.00 | 1351 | 118.95 | 1228 | 127.95 | 1148 |
| 93.10 | 9979 | 106.80 | 73 | 120.00 | 57 | 128.95 | 422 |

Average of 7.080 to 7.087 min.: 1a226430.d\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 129.95 | 839 | 142.95 | 2857 | 152.00 | 51 | 160.10 | 39 |
| 131.00 | 258 | 144.10 | 150 | 152.85 | 148 | 160.40 | 63 |
| 133.70 | 36 | 144.85 | 307 | 153.10 | 153 | 160.70 | 66 |
| 134.95 | 456 | 145.85 | 316 | 153.60 | 52 | 161.10 | 76 |
| 135.80 | 36 | 146.10 | 142 | 153.85 | 154 | 164.20 | 63 |
| 136.40 | 49 | 146.90 | 75 | 155.00 | 465 | 166.70 | 115 |
| 137.05 | 573 | 147.95 | 372 | 155.80 | 50 | 168.10 | 38 |
| 138.70 | 85 | 148.95 | 81 | 157.05 | 441 | 168.60 | 51 |
| 140.00 | 161 | 149.95 | 199 | 158.00 | 56 | 169.20 | 72 |
| 140.95 | 2761 | 151.10 | 57 | 158.20 | 57 | 169.55 | 211 |
| 142.00 | 307 | 151.70 | 111 | 158.90 | 408 | 169.80 | 45 |

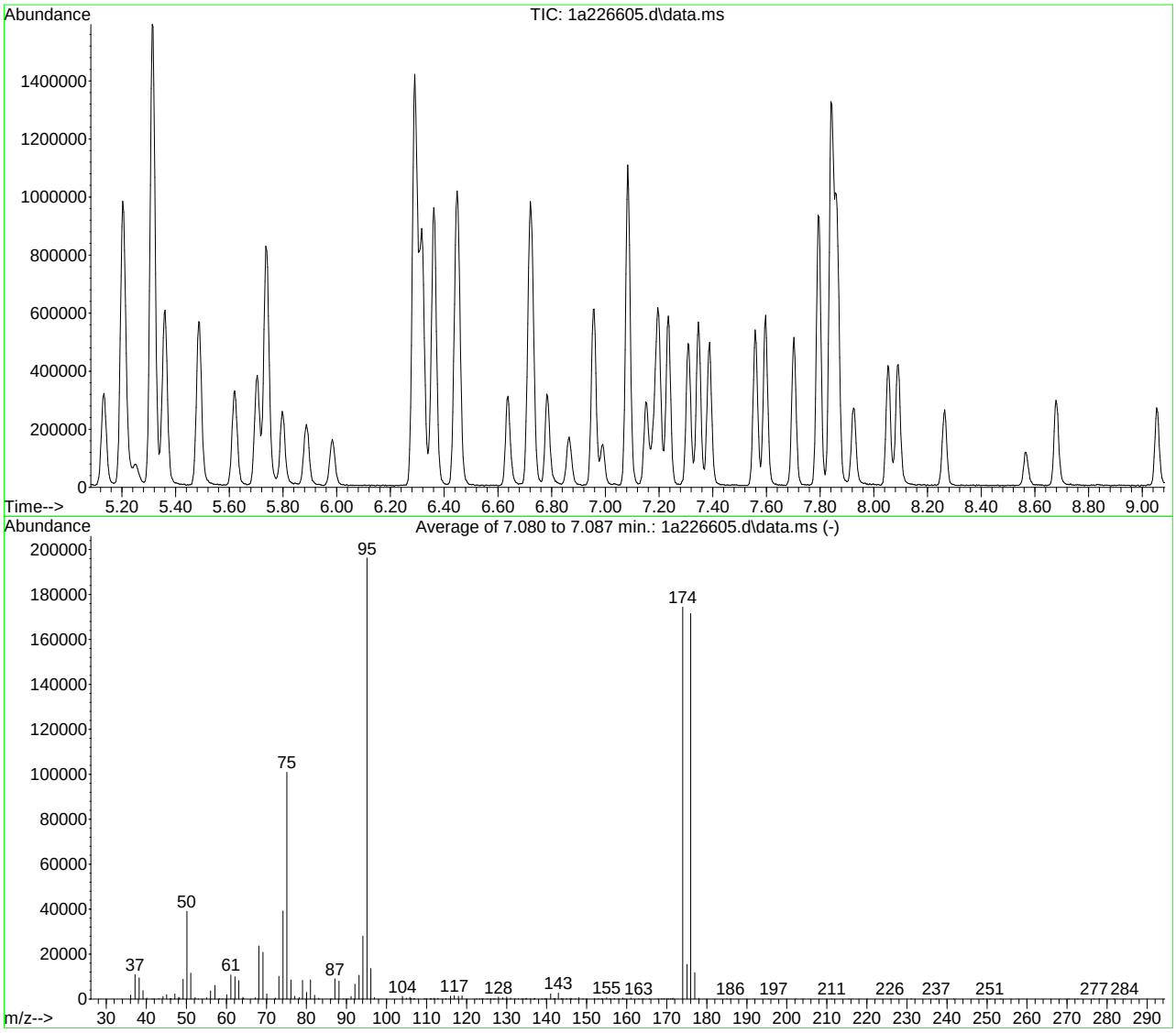
Average of 7.080 to 7.087 min.: 1a226430.d\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 170.10 | 84 | 178.15 | 141 | 263.40 | 54 | | |
| 170.40 | 193 | 184.60 | 58 | 264.80 | 40 | | |
| 170.70 | 102 | 188.90 | 35 | 279.10 | 48 | | |
| 171.10 | 116 | 191.40 | 44 | 280.10 | 43 | | |
| 171.35 | 218 | 196.70 | 34 | 288.90 | 38 | | |
| 172.15 | 84 | 199.10 | 87 | 294.80 | 79 | | |
| 174.00 | 189525 | 208.00 | 34 | 299.20 | 33 | | |
| 175.05 | 16888 | 208.15 | 71 | | | | |
| 176.00 | 185365 | 227.80 | 40 | | | | |
| 177.00 | 12437 | 249.80 | 70 | | | | |
| 177.80 | 126 | 262.00 | 38 | | | | |

SW-846 Method 8260

Data File : C:\msdchem\1\data\re...22\v1a9705\1a226605.d Vial: 2
Acq On : 30 Sep 2022 10:42 am Operator: nickw
Sample : bfb Inst : MSDTEST1A
Misc : MS62579, V1A9705,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M1A9688.M (RTE Integrator)
Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um




AutoFind: Scans 1744, 1745, 1746; Background Corrected with Scan 1734

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 19.9 | 39099 | PASS |
| 75 | 95 | 30 | 60 | 51.4 | 100955 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 196224 | PASS |
| 96 | 95 | 5 | 9 | 6.9 | 13586 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 88.9 | 174400 | PASS |
| 175 | 174 | 5 | 9 | 8.8 | 15429 | PASS |
| 176 | 174 | 95 | 101 | 98.4 | 171605 | PASS |
| 177 | 176 | 5 | 9 | 6.8 | 11740 | PASS |

1a226605.d M1A9688.M Mon Oct 03 07:12:18 2022

Average of 7.080 to 7.087 min.: 1a226605.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.10 | 1766 | 46.15 | 189 | 57.15 | 6013 | 69.10 | 20789 |
| 37.15 | 10780 | 47.10 | 2199 | 58.20 | 237 | 70.10 | 2197 |
| 38.20 | 9400 | 48.10 | 760 | 59.05 | 87 | 72.20 | 434 |
| 39.15 | 3673 | 48.30 | 482 | 60.10 | 1918 | 73.10 | 10072 |
| 40.10 | 371 | 49.15 | 8769 | 61.10 | 10667 | 74.10 | 39125 |
| 41.40 | 50 | 50.10 | 39099 | 62.10 | 9913 | 75.10 | 100955 |
| 41.90 | 90 | 51.10 | 11532 | 63.10 | 8165 | 76.10 | 8364 |
| 43.05 | 155 | 52.20 | 607 | 64.10 | 705 | 77.05 | 1219 |
| 44.15 | 1074 | 53.00 | 57 | 64.30 | 274 | 78.15 | 644 |
| 45.05 | 1891 | 55.05 | 529 | 67.20 | 526 | 79.00 | 8242 |
| 45.90 | 100 | 56.05 | 3614 | 68.10 | 23664 | 80.05 | 2926 |

Average of 7.080 to 7.087 min.: 1a226605.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 81.00 | 8497 | 94.10 | 28000 | 109.70 | 63 | 122.50 | 43 |
| 82.00 | 1701 | 95.10 | 196224 | 110.00 | 214 | 123.20 | 57 |
| 83.05 | 276 | 96.10 | 13586 | 110.95 | 203 | 123.80 | 58 |
| 86.10 | 167 | 97.00 | 579 | 111.20 | 83 | 124.10 | 36 |
| 87.10 | 8998 | 103.95 | 1197 | 111.85 | 249 | 125.20 | 87 |
| 88.10 | 7927 | 105.00 | 251 | 112.85 | 311 | 126.05 | 104 |
| 89.30 | 71 | 105.85 | 717 | 114.80 | 218 | 126.70 | 78 |
| 90.25 | 119 | 106.10 | 288 | 116.00 | 1205 | 127.10 | 83 |
| 91.15 | 1066 | 106.80 | 81 | 116.95 | 1466 | 127.95 | 904 |
| 92.10 | 6622 | 107.00 | 218 | 117.95 | 1254 | 129.05 | 464 |
| 93.10 | 10531 | 109.40 | 55 | 118.85 | 1402 | 130.00 | 875 |

Average of 7.080 to 7.087 min.: 1a226605.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 131.00 | 440 | 139.50 | 129 | 147.15 | 86 | 158.10 | 51 |
| 132.10 | 52 | 139.90 | 140 | 148.05 | 596 | 159.00 | 460 |
| 132.90 | 84 | 141.00 | 2218 | 149.10 | 108 | 159.50 | 45 |
| 133.75 | 112 | 141.80 | 145 | 150.00 | 189 | 161.05 | 361 |
| 134.20 | 47 | 142.10 | 235 | 151.95 | 246 | 163.00 | 77 |
| 134.80 | 146 | 142.95 | 2629 | 152.95 | 170 | 163.90 | 34 |
| 135.05 | 340 | 143.70 | 123 | 153.70 | 73 | 164.20 | 39 |
| 135.90 | 41 | 144.00 | 45 | 153.90 | 75 | 165.70 | 49 |
| 136.80 | 137 | 145.00 | 253 | 155.00 | 574 | 167.80 | 56 |
| 137.00 | 331 | 145.90 | 257 | 155.90 | 61 | 168.75 | 150 |
| 138.80 | 35 | 146.20 | 48 | 156.90 | 306 | 169.20 | 36 |

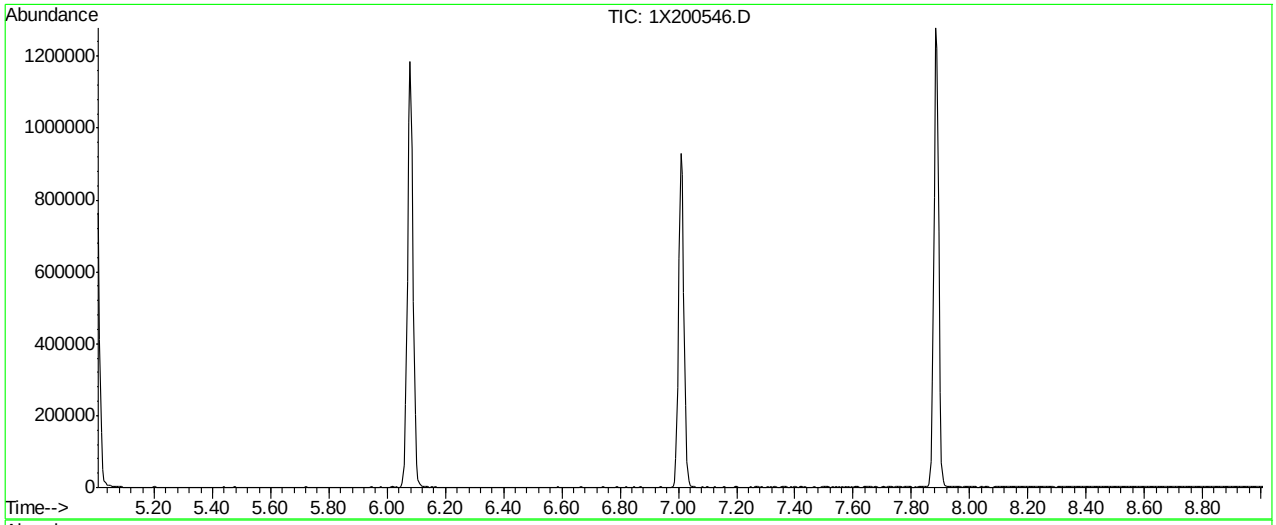
Average of 7.080 to 7.087 min.: 1a226605.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 169.40 | 79 | 178.05 | 291 | 237.30 | 73 | | |
| 170.00 | 49 | 185.00 | 51 | 241.70 | 38 | | |
| 170.30 | 114 | 185.90 | 53 | 249.00 | 37 | | |
| 170.50 | 74 | 195.40 | 34 | 250.70 | 54 | | |
| 170.95 | 126 | 196.70 | 38 | 253.40 | 52 | | |
| 171.40 | 65 | 202.20 | 38 | 270.50 | 36 | | |
| 171.70 | 267 | 204.20 | 34 | 272.70 | 54 | | |
| 174.00 | 174400 | 211.20 | 36 | 276.80 | 56 | | |
| 175.10 | 15429 | 215.50 | 34 | 278.10 | 41 | | |
| 176.00 | 171605 | 225.80 | 35 | 281.70 | 46 | | |
| 177.00 | 11740 | 231.10 | 43 | 284.40 | 34 | | |

BFB

Data File : C:\msdchem\1\data\VX8636\1X200546.D  Vial: 1
Acq On : 28 Sep 2022 8:11 pm  Operator: PrashanS
Sample : BFB  Inst : ACC-VOA-M
Misc : MS62283,V1X8636,5,,,,1  Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M1X8636.M (RTE Integrator)
Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)




AutoFind: Scans 1166, 1167, 1168; Background Corrected with Scan 1159

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 21.5 | 34122 | PASS |
| 75 | 95 | 30 | 60 | 47.9 | 76093 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 158920 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 10654 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 90.4 | 143600 | PASS |
| 175 | 174 | 5 | 9 | 7.6 | 10847 | PASS |
| 176 | 174 | 95 | 101 | 96.5 | 138637 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 9314 | PASS |

1X200546.D M1X8636.M Thu Sep 29 13:49:03 2022 GCMSX

Average of 7.002 to 7.013 min.: 1X200546.D
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.10 | 1664 | 49.10 | 7258 | 63.10 | 5966 | 77.05 | 830 |
| 37.10 | 9278 | 50.10 | 34122 | 64.05 | 555 | 78.00 | 574 |
| 38.10 | 8338 | 51.10 | 10270 | 67.05 | 484 | 78.95 | 5442 |
| 39.10 | 3064 | 52.05 | 480 | 68.05 | 16053 | 80.00 | 1635 |
| 40.00 | 181 | 55.10 | 459 | 69.05 | 16223 | 80.95 | 5607 |
| 43.00 | 144 | 56.05 | 2721 | 70.05 | 1182 | 81.95 | 1180 |
| 43.20 | 75 | 57.05 | 4771 | 72.05 | 766 | 83.10 | 138 |
| 44.05 | 1218 | 58.05 | 216 | 73.00 | 6760 | 85.80 | 56 |
| 45.05 | 1677 | 60.00 | 1359 | 74.05 | 26477 | 87.00 | 7228 |
| 47.05 | 2025 | 61.00 | 7745 | 75.10 | 76093 | 88.00 | 6740 |
| 48.05 | 1021 | 62.10 | 7973 | 76.10 | 6423 | 90.95 | 703 |

Average of 7.002 to 7.013 min.: 1X200546.D
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 92.00 | 4446 | 110.95 | 178 | 130.95 | 212 | 149.80 | 132 |
| 93.00 | 6875 | 112.90 | 136 | 134.95 | 309 | 152.95 | 113 |
| 94.10 | 19039 | 114.95 | 180 | 136.90 | 386 | 154.95 | 405 |
| 95.05 | 158920 | 115.95 | 657 | 139.90 | 171 | 156.90 | 368 |
| 96.05 | 10654 | 117.00 | 1065 | 140.95 | 1596 | 158.85 | 215 |
| 97.05 | 353 | 117.90 | 634 | 142.05 | 244 | 160.90 | 217 |
| 103.95 | 820 | 118.95 | 938 | 142.90 | 1763 | 171.60 | 51 |
| 104.95 | 231 | 123.90 | 54 | 145.00 | 69 | 172.10 | 107 |
| 105.95 | 850 | 127.90 | 620 | 145.90 | 164 | 174.00 | 143600 |
| 107.00 | 133 | 128.95 | 318 | 147.95 | 428 | 175.00 | 10847 |
| 109.90 | 64 | 129.90 | 627 | 148.90 | 54 | 176.00 | 138637 |

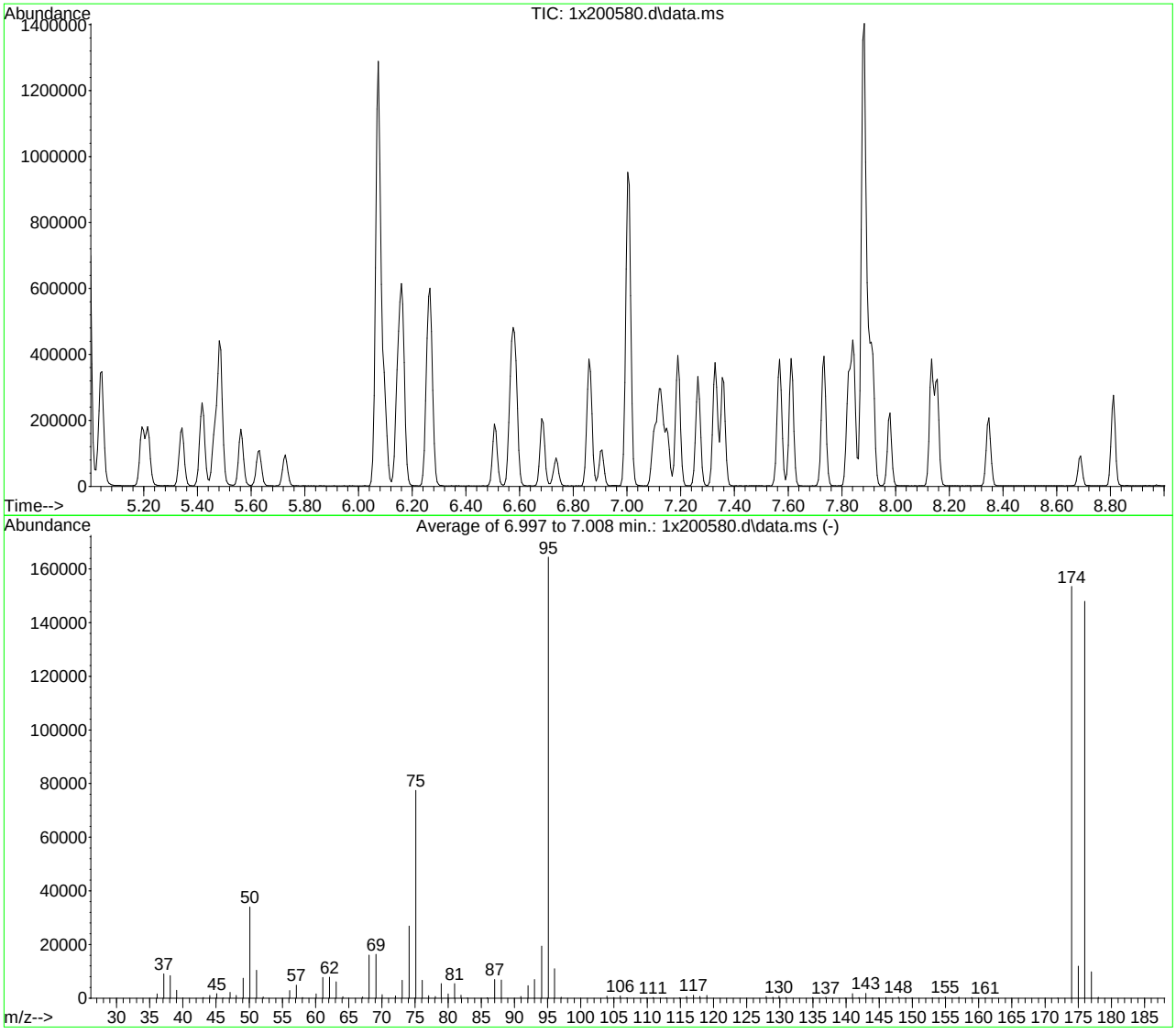
Average of 7.002 to 7.013 min.: 1X200546.D
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 176.95 | 9314 | | | | | | |
| 178.05 | 264 | | | | | | |

BFB

Data File : C:\msdchem\1\data\da...22\v1x8637\1x200580.d Vial: 3
Acq On : 29 Sep 2022 10:06 am Operator: PrashanS
Sample : bfb Inst : ACC-VOA-MSX
Misc : MS62283,V1X8637,5,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\M1X8636.M (RTE Integrator)
Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)




AutoFind: Scans 1165, 1166, 1167; Background Corrected with Scan 1158

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 20.6 | 33933 | PASS |
| 75 | 95 | 30 | 60 | 47.1 | 77451 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 164416 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 10956 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 93.4 | 153515 | PASS |
| 175 | 174 | 5 | 9 | 7.8 | 11945 | PASS |
| 176 | 174 | 95 | 101 | 96.4 | 147971 | PASS |
| 177 | 176 | 5 | 9 | 6.6 | 9818 | PASS |

1x200580.d M1X8636.M Mon Oct 03 06:39:05 2022

Average of 6.997 to 7.008 min.: 1x200580.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.10 | 1610 | 49.10 | 7402 | 64.10 | 545 | 78.05 | 637 |
| 37.10 | 9087 | 50.10 | 33933 | 67.10 | 477 | 78.95 | 5397 |
| 38.10 | 8437 | 51.10 | 10404 | 68.05 | 16099 | 80.00 | 1617 |
| 39.05 | 2959 | 52.10 | 447 | 69.10 | 16306 | 80.95 | 5400 |
| 40.00 | 82 | 56.10 | 2874 | 70.05 | 1257 | 81.95 | 1132 |
| 43.10 | 243 | 57.10 | 4856 | 72.05 | 829 | 82.90 | 67 |
| 44.05 | 1025 | 58.05 | 216 | 73.05 | 6700 | 85.90 | 135 |
| 45.10 | 1656 | 60.10 | 1563 | 74.10 | 26888 | 87.00 | 6961 |
| 46.10 | 80 | 61.10 | 7694 | 75.10 | 77451 | 88.00 | 6717 |
| 47.10 | 2207 | 62.10 | 7777 | 76.10 | 6659 | 90.95 | 670 |
| 48.05 | 1024 | 63.10 | 6077 | 77.05 | 911 | 92.05 | 4622 |

Average of 6.997 to 7.008 min.: 1x200580.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 93.00 | 6974 | 112.00 | 59 | 134.95 | 290 | 149.95 | 165 |
| 94.10 | 19380 | 112.90 | 121 | 136.95 | 366 | 153.00 | 55 |
| 95.10 | 164416 | 114.90 | 152 | 139.90 | 56 | 154.00 | 53 |
| 96.05 | 10956 | 115.95 | 659 | 140.95 | 1694 | 154.95 | 400 |
| 97.05 | 342 | 117.00 | 1116 | 141.95 | 236 | 157.00 | 313 |
| 103.95 | 773 | 117.95 | 657 | 143.00 | 1770 | 158.95 | 216 |
| 105.00 | 258 | 119.00 | 1042 | 144.00 | 52 | 161.00 | 74 |
| 105.95 | 834 | 127.95 | 588 | 144.90 | 58 | 171.90 | 70 |
| 106.95 | 171 | 128.95 | 328 | 146.00 | 269 | 174.00 | 153515 |
| 109.90 | 56 | 129.90 | 705 | 147.90 | 393 | 175.00 | 11945 |
| 110.90 | 200 | 130.95 | 233 | 149.00 | 51 | 176.00 | 147971 |

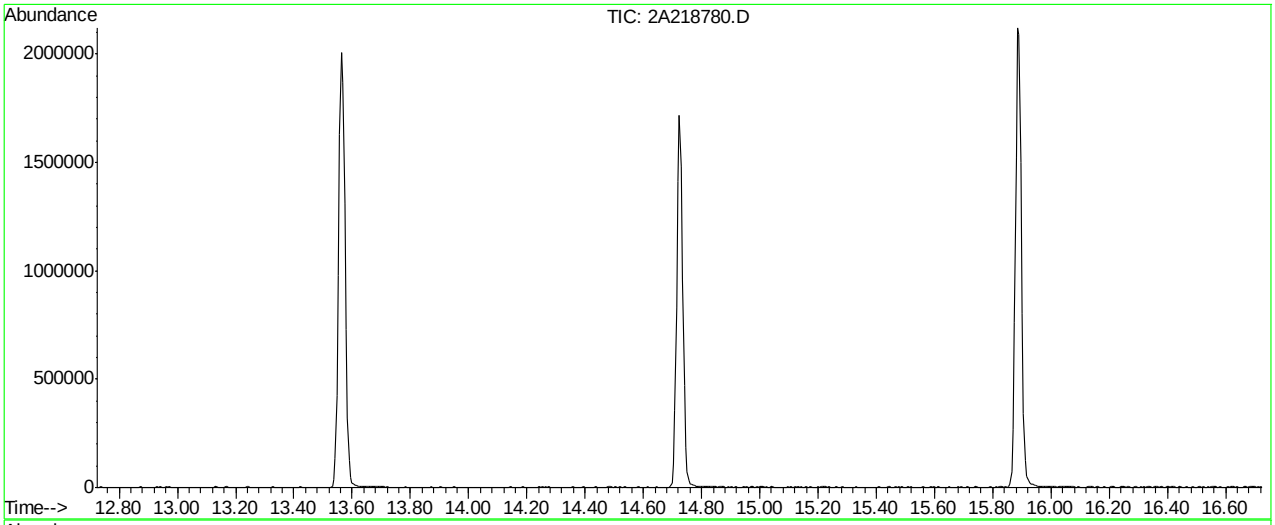
Average of 6.997 to 7.008 min.: 1x200580.d\data.ms
bfb
Modified:subtracted

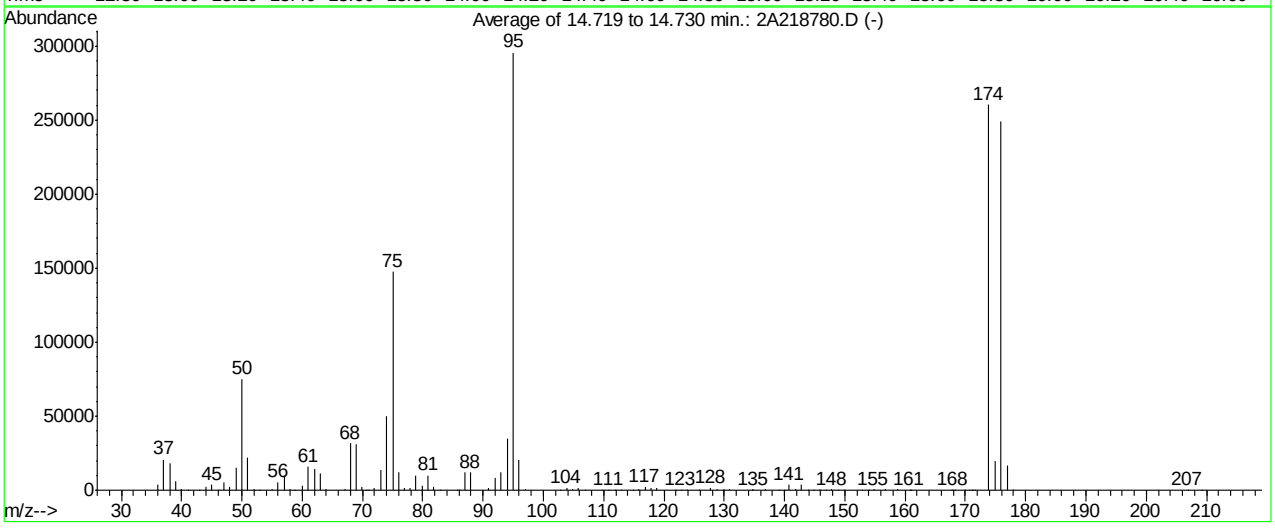
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 177.00 | 9818 | | | | | | |
| 178.05 | 322 | | | | | | |

SW-846 Method 8260

Data File : C:\MSDChem\1\DATA\V2A9511\2A218780.D  Vial: 1
Acq On : 31 Jul 2022 4:50 pm  Operator: PrashanS
Sample : BFB  Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon May 16 17:44:57 2022




AutoFind: Scans 2168, 2169, 2170; Background Corrected with Scan 2160

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 25.4 | 75120 | PASS |
| 75 | 95 | 30 | 60 | 49.8 | 147328 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 295616 | PASS |
| 96 | 95 | 5 | 9 | 7.0 | 20757 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 88.0 | 260096 | PASS |
| 175 | 174 | 5 | 9 | 7.7 | 19904 | PASS |
| 176 | 174 | 95 | 101 | 95.6 | 248768 | PASS |
| 177 | 176 | 5 | 9 | 6.6 | 16468 | PASS |

2A218780.D M2A9511.M Mon Aug 01 14:24:31 2022 MS2A

Average of 14.719 to 14.730 min.: 2A218780.D
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.00 | 3875 | 48.00 | 2112 | 60.00 | 3001 | 71.95 | 1372 |
| 37.00 | 20709 | 49.00 | 15497 | 61.00 | 15875 | 73.00 | 14021 |
| 38.00 | 17835 | 50.00 | 75120 | 62.00 | 14595 | 73.95 | 50264 |
| 39.00 | 6234 | 51.00 | 21885 | 63.00 | 11254 | 75.00 | 147328 |
| 40.00 | 428 | 52.00 | 994 | 63.95 | 1038 | 76.00 | 12494 |
| 41.00 | 82 | 52.95 | 153 | 67.00 | 565 | 76.90 | 1733 |
| 43.00 | 100 | 54.95 | 831 | 68.00 | 31712 | 77.95 | 1194 |
| 43.95 | 2315 | 56.00 | 5567 | 69.00 | 30944 | 78.85 | 9664 |
| 45.00 | 3496 | 57.00 | 9970 | 69.95 | 2382 | 79.85 | 2795 |
| 46.00 | 393 | 57.95 | 549 | 70.60 | 67 | 80.90 | 9974 |
| 47.00 | 5306 | 58.70 | 69 | 70.95 | 199 | 81.85 | 2369 |

Average of 14.719 to 14.730 min.: 2A218780.D
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 82.95 | 205 | 96.95 | 537 | 115.80 | 1097 | 130.85 | 487 |
| 85.75 | 244 | 102.70 | 89 | 116.90 | 2216 | 134.50 | 145 |
| 86.00 | 142 | 103.85 | 1497 | 117.85 | 1469 | 134.85 | 599 |
| 86.90 | 12047 | 104.90 | 524 | 118.85 | 1740 | 136.85 | 784 |
| 87.90 | 12078 | 105.85 | 1405 | 121.90 | 72 | 139.00 | 80 |
| 90.90 | 1397 | 106.85 | 308 | 122.80 | 83 | 140.00 | 71 |
| 91.95 | 8505 | 109.75 | 174 | 123.85 | 229 | 140.80 | 3663 |
| 92.95 | 12474 | 110.85 | 382 | 125.85 | 187 | 141.90 | 459 |
| 94.00 | 34496 | 111.90 | 107 | 127.75 | 1210 | 142.85 | 3647 |
| 95.00 | 295616 | 112.85 | 288 | 128.80 | 624 | 143.90 | 172 |
| 96.00 | 20757 | 114.85 | 319 | 129.85 | 1094 | 144.80 | 135 |

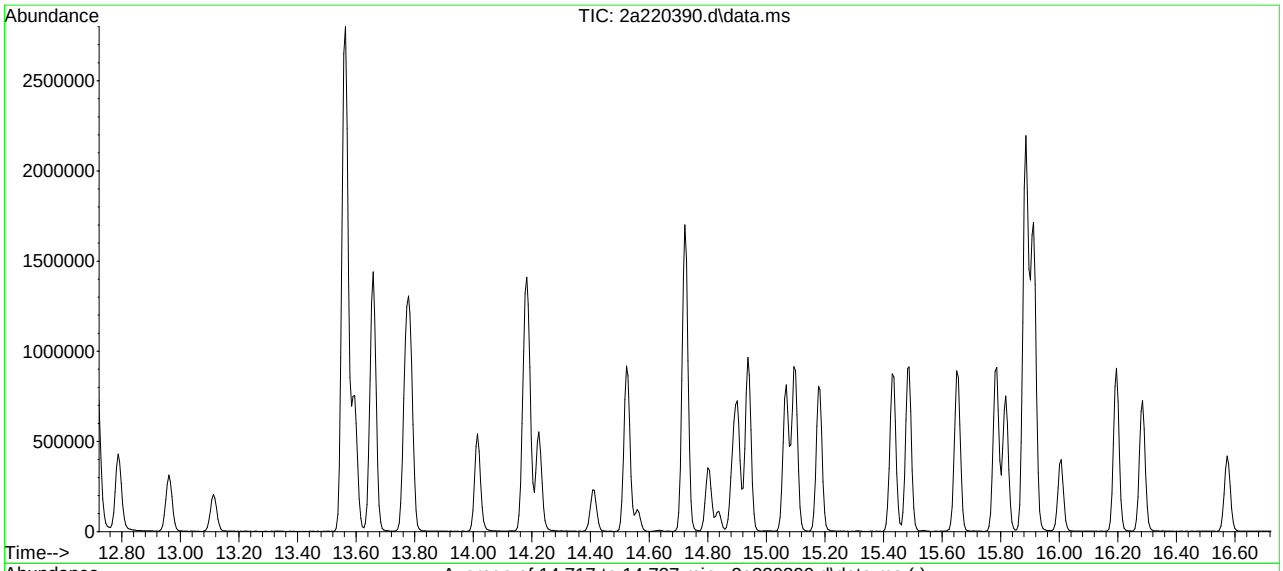
Average of 14.719 to 14.730 min.: 2A218780.D
BFB
Modified:subtracted

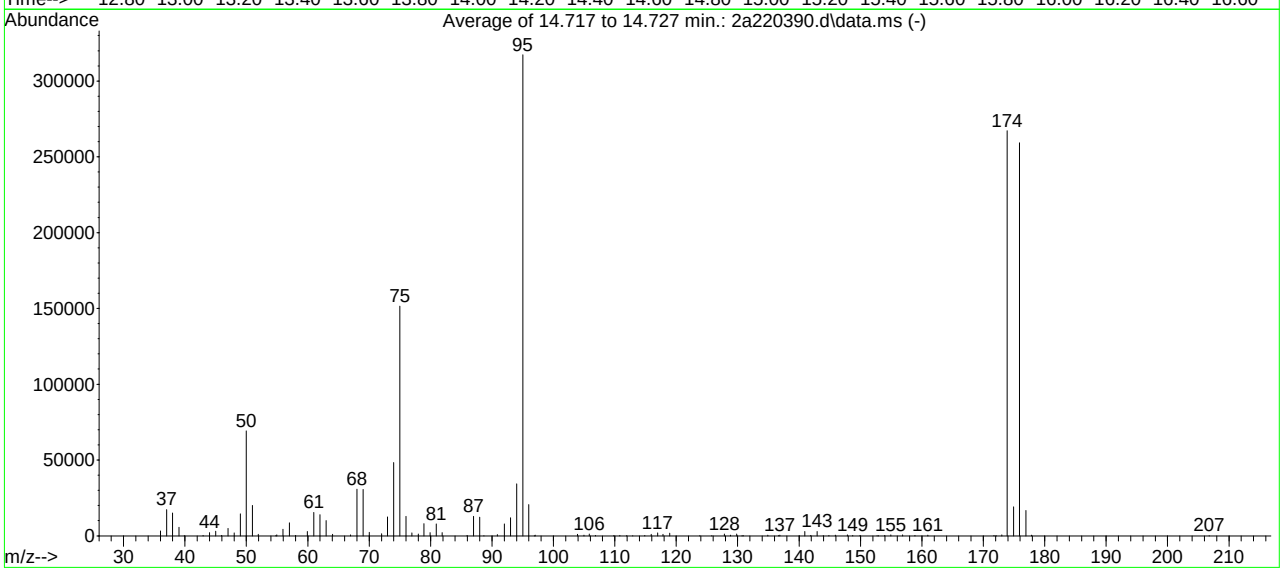
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 145.80 | 305 | 160.80 | 175 | 174.90 | 19904 | | |
| 146.00 | 165 | 161.00 | 129 | 175.90 | 248768 | | |
| 146.80 | 243 | 167.70 | 83 | 176.90 | 16468 | | |
| 147.80 | 726 | 167.90 | 88 | 177.85 | 254 | | |
| 148.90 | 183 | 168.20 | 72 | 206.90 | 336 | | |
| 149.80 | 317 | 169.95 | 250 | 209.20 | 70 | | |
| 152.85 | 209 | 170.65 | 216 | | | | |
| 153.85 | 254 | 171.00 | 148 | | | | |
| 154.85 | 727 | 171.30 | 96 | | | | |
| 156.80 | 635 | 171.50 | 216 | | | | |
| 158.85 | 490 | 173.90 | 260096 | | | | |

SW-846 Method 8260

Data File : C:\msdchem\1\data\kr...22\v2a9581\2a220390.d Vial: 2
Acq On : 29 Sep 2022 9:13 am Operator: nicoleh
Sample : bfb Inst : GCMS2A
Misc : MS62546,V2A9581,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022




AutoFind: Scans 2161, 2162, 2163; Background Corrected with Scan 2153

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 21.8 | 69155 | PASS |
| 75 | 95 | 30 | 60 | 47.7 | 151467 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 317269 | PASS |
| 96 | 95 | 5 | 9 | 6.5 | 20589 | PASS |
| 173 | 174 | 0.00 | 2 | 0.3 | 687 | PASS |
| 174 | 95 | 50 | 120 | 84.2 | 267157 | PASS |
| 175 | 174 | 5 | 9 | 7.2 | 19184 | PASS |
| 176 | 174 | 95 | 101 | 97.1 | 259349 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 16789 | PASS |

2a220390.d M2A9511.M Sun Oct 02 22:30:17 2022

Average of 14.717 to 14.727 min.: 2a220390.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.00 | 3153 | 49.00 | 14619 | 62.00 | 13933 | 76.00 | 12892 |
| 37.00 | 17240 | 50.00 | 69155 | 63.00 | 10010 | 76.95 | 1892 |
| 38.00 | 15095 | 51.00 | 20149 | 64.05 | 963 | 78.00 | 1151 |
| 39.05 | 5557 | 51.95 | 1034 | 66.95 | 673 | 78.90 | 7994 |
| 39.90 | 41 | 54.80 | 205 | 68.00 | 30760 | 79.90 | 2178 |
| 42.95 | 300 | 54.95 | 689 | 69.00 | 30573 | 80.90 | 7922 |
| 44.00 | 2174 | 55.95 | 4383 | 70.00 | 2247 | 81.90 | 2125 |
| 45.00 | 3035 | 57.00 | 8676 | 72.00 | 1475 | 85.95 | 367 |
| 45.95 | 197 | 58.00 | 362 | 73.00 | 12432 | 87.00 | 12806 |
| 47.00 | 4942 | 59.95 | 2865 | 74.00 | 48363 | 88.00 | 12256 |
| 48.00 | 2031 | 61.00 | 15389 | 75.00 | 151467 | 88.70 | 182 |

Average of 14.717 to 14.727 min.: 2a220390.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 90.85 | 934 | 106.85 | 357 | 125.80 | 147 | 141.90 | 314 |
| 92.00 | 7966 | 109.80 | 109 | 127.85 | 1144 | 142.95 | 2933 |
| 93.00 | 11958 | 110.80 | 265 | 128.85 | 519 | 143.95 | 165 |
| 94.00 | 34221 | 111.90 | 165 | 129.85 | 1120 | 144.85 | 315 |
| 95.00 | 317269 | 112.90 | 148 | 130.70 | 103 | 145.90 | 573 |
| 96.00 | 20589 | 114.85 | 279 | 130.90 | 380 | 147.85 | 697 |
| 96.90 | 162 | 115.90 | 951 | 134.90 | 405 | 148.75 | 201 |
| 97.05 | 474 | 116.95 | 1862 | 136.70 | 192 | 149.90 | 204 |
| 103.90 | 1118 | 117.85 | 950 | 136.85 | 434 | 152.70 | 97 |
| 104.95 | 565 | 118.95 | 1683 | 140.00 | 115 | 152.95 | 187 |
| 105.85 | 1220 | 123.80 | 71 | 140.95 | 2875 | 153.95 | 197 |

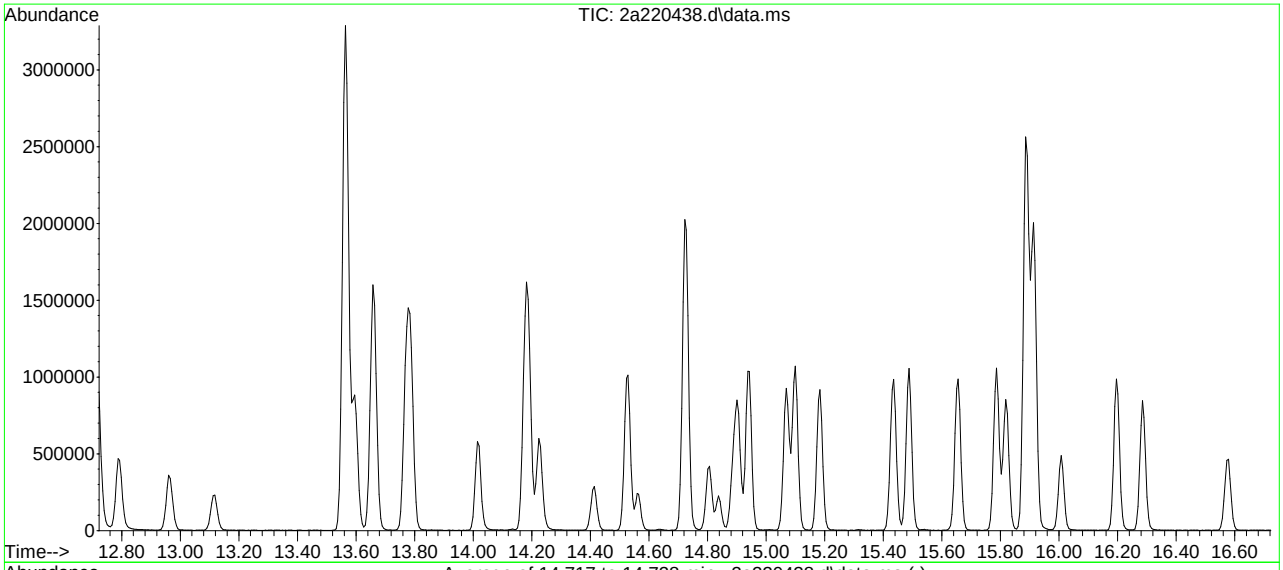
Average of 14.717 to 14.727 min.: 2a220390.d\data.ms
bfb
Modified:subtracted

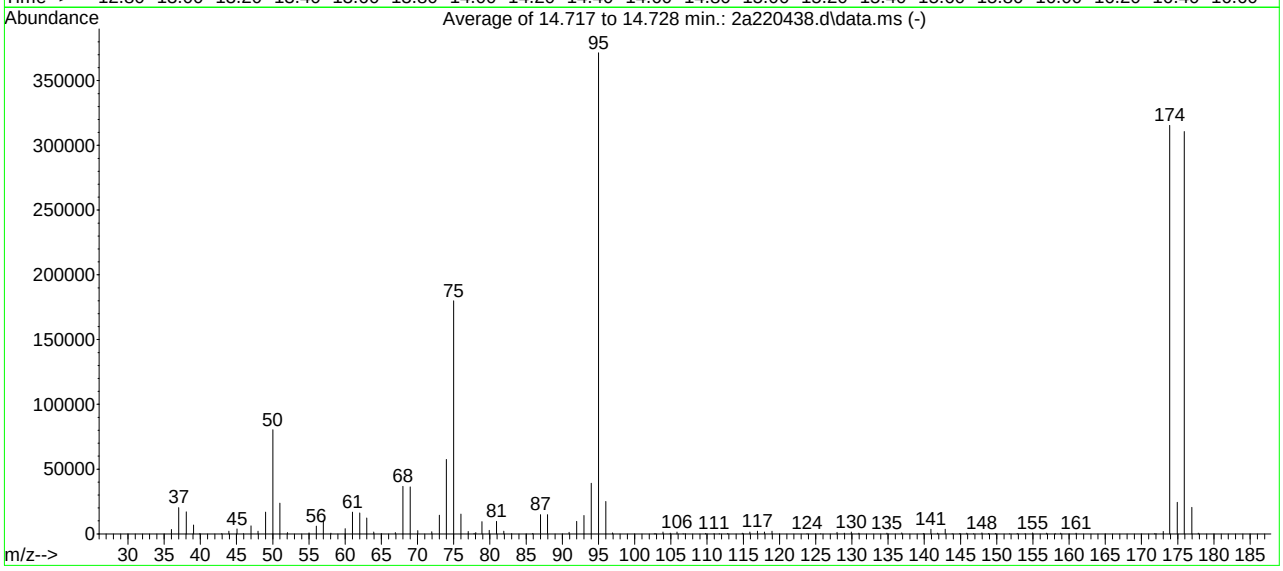
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 154.95 | 726 | 177.85 | 552 | | | | |
| 156.85 | 652 | 206.80 | 95 | | | | |
| 158.85 | 372 | | | | | | |
| 160.95 | 431 | | | | | | |
| 171.75 | 202 | | | | | | |
| 172.10 | 85 | | | | | | |
| 173.00 | 687 | | | | | | |
| 173.90 | 267157 | | | | | | |
| 174.95 | 19184 | | | | | | |
| 175.90 | 259349 | | | | | | |
| 176.95 | 16789 | | | | | | |

SW-846 Method 8260

Data File : C:\msdchem\1\data\lo...-5\v2a9583\2a220438.d Vial: 2
Acq On : 30 Sep 2022 9:16 am Operator: nicoleh
Sample : bfb Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022




AutoFind: Scans 2161, 2162, 2163; Background Corrected with Scan 2153

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 21.7 | 80456 | PASS |
| 75 | 95 | 30 | 60 | 48.5 | 180032 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 371435 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 25032 | PASS |
| 173 | 174 | 0.00 | 2 | 0.6 | 1906 | PASS |
| 174 | 95 | 50 | 120 | 85.0 | 315563 | PASS |
| 175 | 174 | 5 | 9 | 7.7 | 24317 | PASS |
| 176 | 174 | 95 | 101 | 98.5 | 310720 | PASS |
| 177 | 176 | 5 | 9 | 6.6 | 20520 | PASS |

2a220438.d M2A9511.M Tue Oct 04 20:02:07 2022

Average of 14.717 to 14.728 min.: 2a220438.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.00 | 3387 | 49.00 | 16743 | 63.00 | 12147 | 76.00 | 15245 |
| 37.00 | 20331 | 50.00 | 80456 | 63.95 | 1389 | 77.00 | 1923 |
| 38.05 | 17029 | 51.00 | 23797 | 65.00 | 70 | 77.80 | 260 |
| 39.05 | 6727 | 52.05 | 1083 | 66.95 | 1086 | 78.05 | 1079 |
| 39.90 | 209 | 55.00 | 854 | 68.00 | 36656 | 78.90 | 9338 |
| 42.95 | 211 | 56.00 | 5889 | 69.00 | 36285 | 79.90 | 2773 |
| 43.95 | 2175 | 57.00 | 10249 | 70.05 | 2458 | 80.90 | 9674 |
| 45.05 | 3704 | 58.05 | 577 | 71.95 | 1685 | 81.90 | 2058 |
| 45.95 | 186 | 60.00 | 3954 | 73.00 | 14501 | 83.00 | 129 |
| 47.00 | 6190 | 61.00 | 16676 | 74.00 | 57555 | 85.90 | 357 |
| 47.95 | 2136 | 62.00 | 16213 | 75.00 | 180032 | 87.00 | 14917 |

Average of 14.717 to 14.728 min.: 2a220438.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 87.95 | 14829 | 104.90 | 467 | 117.90 | 1493 | 140.90 | 3631 |
| 90.95 | 1166 | 105.85 | 1460 | 118.95 | 2032 | 141.85 | 474 |
| 92.00 | 9600 | 106.70 | 73 | 123.80 | 167 | 142.90 | 3601 |
| 93.00 | 14139 | 106.95 | 191 | 125.70 | 74 | 143.85 | 164 |
| 94.00 | 39019 | 109.80 | 335 | 127.95 | 1277 | 144.90 | 355 |
| 95.00 | 371435 | 110.95 | 205 | 128.95 | 523 | 145.85 | 477 |
| 96.00 | 25032 | 111.70 | 78 | 129.90 | 1423 | 146.80 | 110 |
| 96.95 | 856 | 112.85 | 309 | 130.95 | 474 | 147.95 | 840 |
| 102.70 | 147 | 114.85 | 508 | 134.85 | 588 | 148.90 | 262 |
| 102.90 | 87 | 115.90 | 1324 | 136.90 | 673 | 149.80 | 254 |
| 103.90 | 1345 | 116.95 | 2138 | 139.85 | 324 | 151.80 | 83 |

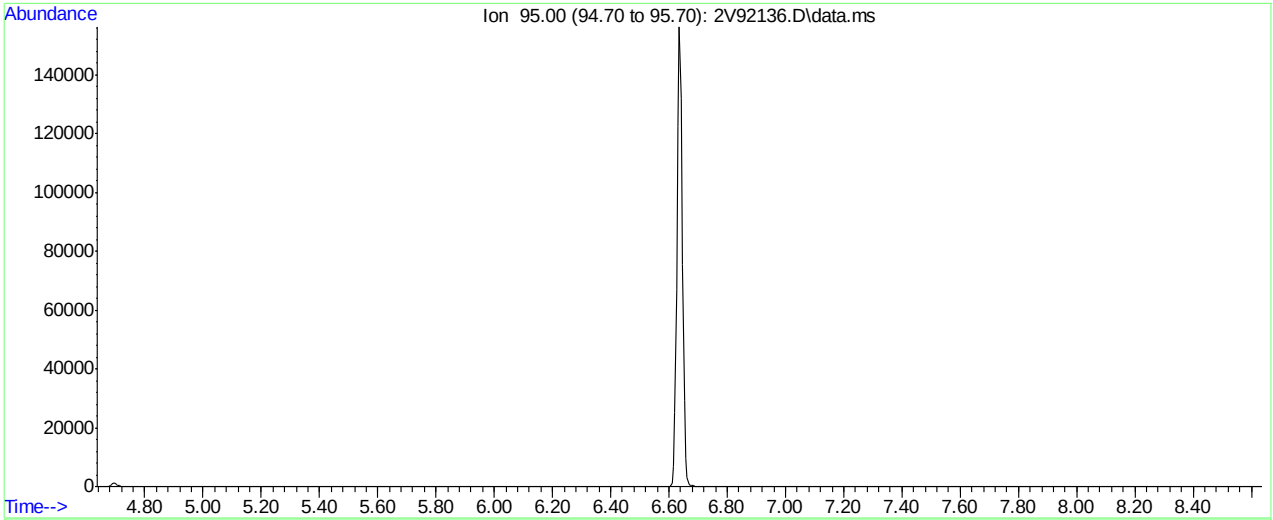
Average of 14.717 to 14.728 min.: 2a220438.d\data.ms
bfb
Modified:subtracted

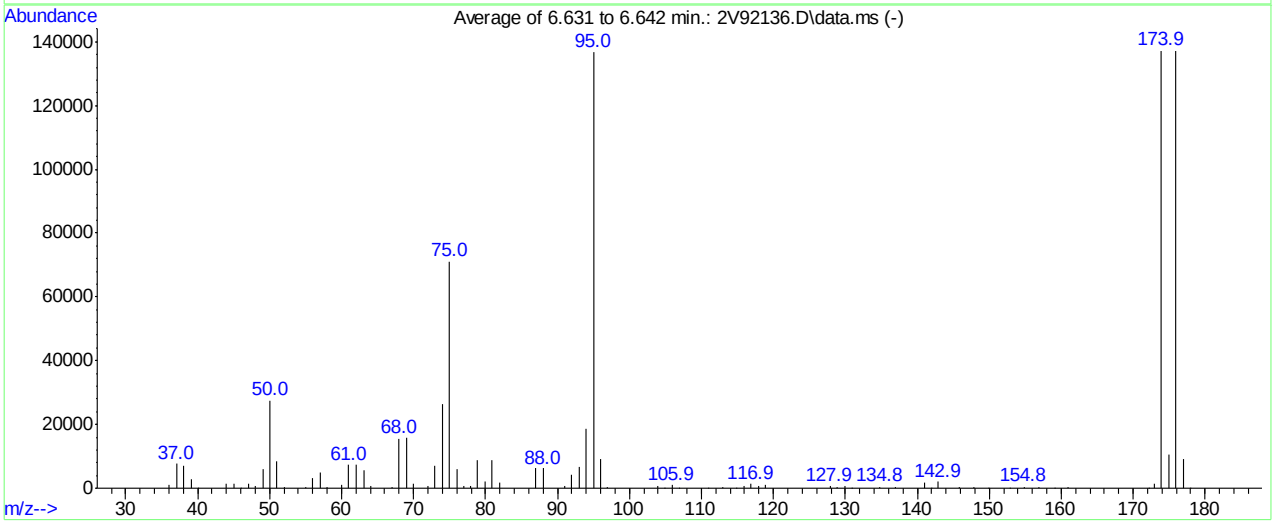
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 152.85 | 263 | 174.95 | 24317 | | | | |
| 153.90 | 172 | 175.90 | 310720 | | | | |
| 154.95 | 747 | 176.95 | 20520 | | | | |
| 156.90 | 566 | 177.85 | 558 | | | | |
| 158.10 | 70 | | | | | | |
| 158.85 | 466 | | | | | | |
| 160.95 | 543 | | | | | | |
| 171.80 | 107 | | | | | | |
| 172.00 | 127 | | | | | | |
| 173.00 | 1906 | | | | | | |
| 173.90 | 315563 | | | | | | |

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\V2V3747\2V92136.D  Vial: 1
Acq On : 11 Sep 2022 2:53 pm  Operator: PrashanS
Sample : BFB  Inst : MS2V
Misc : MS61977,V2V3747,5,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2V3747.M (RTE Integrator)
Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)




AutoFind: Scans 1248, 1249, 1250; Background Corrected with Scan 1241

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 20.1 | 27517 | PASS |
| 75 | 95 | 30 | 60 | 51.9 | 71051 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 136912 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 9133 | PASS |
| 173 | 174 | 0.00 | 2 | 1.0 | 1406 | PASS |
| 174 | 95 | 50 | 120 | 100.3 | 137259 | PASS |
| 175 | 174 | 5 | 9 | 7.8 | 10650 | PASS |
| 176 | 174 | 95 | 101 | 99.8 | 136979 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 9176 | PASS |

2V92136.D M2V3747.M Mon Sep 12 10:43:27 2022 RPT1

Average of 6.631 to 6.642 min.: 2V92136.D\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.05 | 1201 | 50.05 | 27517 | 64.00 | 616 | 77.95 | 557 |
| 37.05 | 7612 | 51.00 | 8523 | 66.95 | 446 | 78.90 | 8915 |
| 38.05 | 7079 | 52.05 | 421 | 68.00 | 15584 | 79.90 | 2210 |
| 39.10 | 2843 | 55.05 | 503 | 69.00 | 15708 | 80.90 | 8847 |
| 40.00 | 54 | 56.00 | 3099 | 70.00 | 1424 | 81.90 | 1841 |
| 44.00 | 1359 | 57.00 | 5080 | 72.00 | 782 | 87.00 | 6218 |
| 45.05 | 1508 | 58.05 | 265 | 73.00 | 6966 | 88.00 | 6278 |
| 46.05 | 159 | 60.00 | 1210 | 74.00 | 26448 | 90.95 | 867 |
| 47.05 | 1394 | 61.00 | 7371 | 75.00 | 71051 | 92.00 | 4292 |
| 48.00 | 825 | 62.00 | 7225 | 76.05 | 5927 | 93.00 | 6693 |
| 49.05 | 5830 | 63.05 | 5811 | 77.00 | 807 | 94.00 | 18735 |

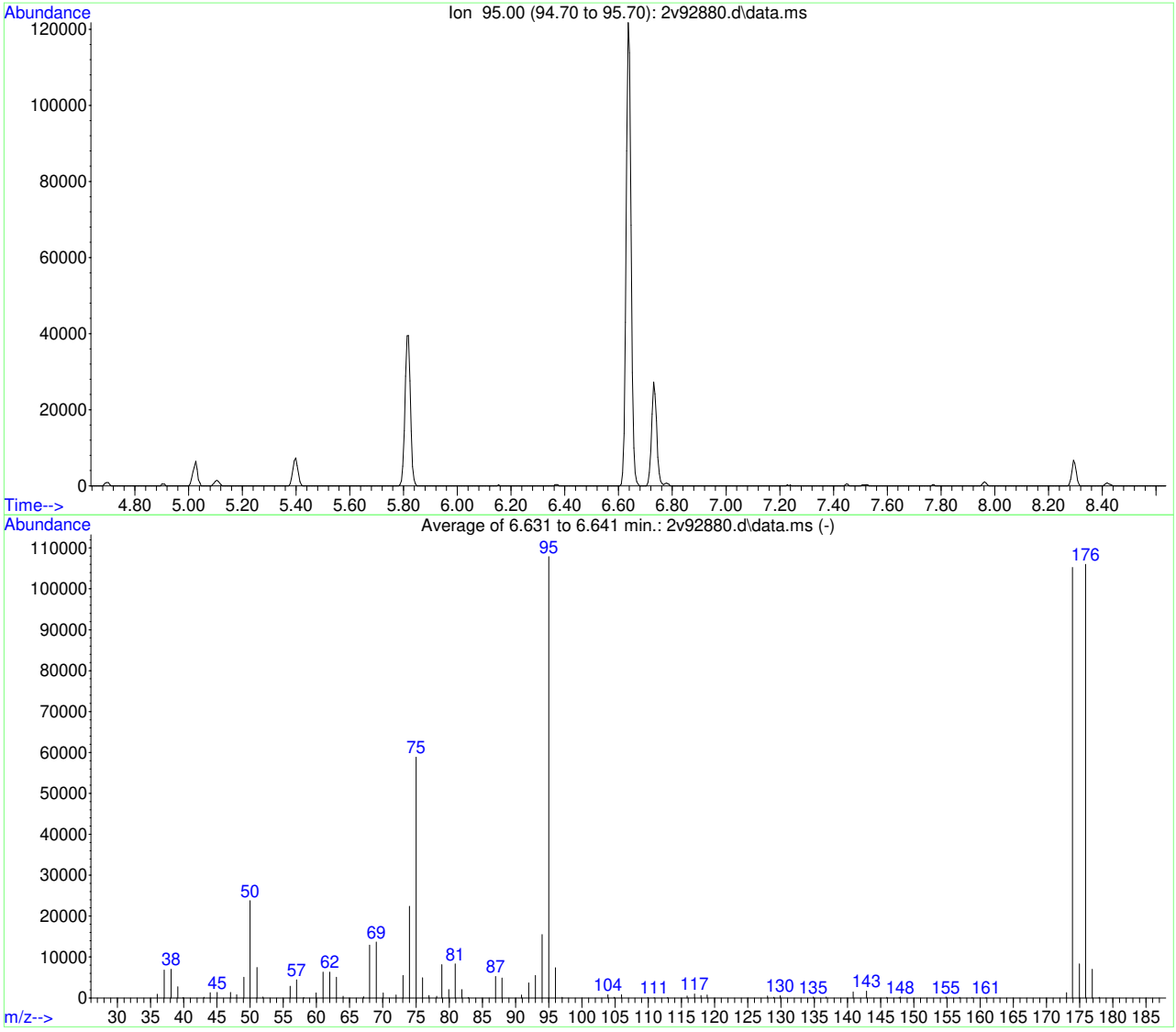
Average of 6.631 to 6.642 min.: 2V92136.D\data.ms
BFB
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 95.00 | 136912 | 116.90 | 1275 | 142.90 | 1956 | 173.90 | 137259 |
| 96.00 | 9133 | 117.90 | 755 | 145.90 | 208 | 174.95 | 10650 |
| 97.00 | 343 | 118.95 | 1116 | 147.90 | 413 | 175.90 | 136979 |
| 103.90 | 893 | 127.90 | 695 | 149.90 | 76 | 176.95 | 9176 |
| 104.90 | 100 | 128.85 | 325 | 152.90 | 78 | 177.90 | 186 |
| 105.90 | 942 | 129.90 | 625 | 154.85 | 463 | | |
| 106.95 | 190 | 130.85 | 186 | 156.90 | 222 | | |
| 110.90 | 159 | 134.80 | 436 | 159.00 | 92 | | |
| 112.90 | 198 | 136.95 | 317 | 160.90 | 210 | | |
| 114.90 | 160 | 140.95 | 1803 | 172.10 | 109 | | |
| 115.90 | 680 | 141.90 | 86 | 172.95 | 1406 | | |

SW-846 Method 8260

Data File : C:\msdchem\1\data\KI...-22\v2v3773\2v92880.d Vial: 30
Acq On : 27 Sep 2022 9:00 pm Operator: KYLEM
Sample : cc3747-50 Inst : MS2V
Misc : MS62460,V2V3773,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\m2v3747.m (RTE Integrator)
Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)




AutoFind: Scans 1248, 1249, 1250; Background Corrected with Scan 1241

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 22.1 | 23805 | PASS |
| 75 | 95 | 30 | 60 | 54.6 | 58853 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 107864 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 7368 | PASS |
| 173 | 174 | 0.00 | 2 | 1.3 | 1322 | PASS |
| 174 | 95 | 50 | 120 | 97.6 | 105272 | PASS |
| 175 | 174 | 5 | 9 | 7.9 | 8354 | PASS |
| 176 | 174 | 95 | 101 | 100.7 | 105992 | PASS |
| 177 | 176 | 5 | 9 | 6.6 | 7017 | PASS |

2v92880.d m2v3747.m Wed Sep 28 11:38:09 2022

Average of 6.631 to 6.641 min.: 2v92880.d\data.ms
cc3747-50
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.00 | 935 | 50.00 | 23805 | 67.10 | 257 | 78.90 | 8131 |
| 37.05 | 6802 | 51.05 | 7466 | 68.00 | 12920 | 79.95 | 2047 |
| 38.10 | 6990 | 51.95 | 217 | 69.00 | 13673 | 80.90 | 8317 |
| 39.10 | 2717 | 56.05 | 2846 | 70.05 | 1251 | 81.90 | 2017 |
| 39.90 | 82 | 57.00 | 4455 | 72.00 | 708 | 82.90 | 78 |
| 43.05 | 165 | 58.10 | 117 | 73.05 | 5485 | 87.00 | 5283 |
| 44.00 | 1274 | 59.95 | 1227 | 74.00 | 22421 | 87.95 | 4869 |
| 45.05 | 1364 | 61.00 | 6301 | 75.00 | 58853 | 90.90 | 700 |
| 47.05 | 1347 | 62.00 | 6337 | 76.00 | 4960 | 92.00 | 3691 |
| 48.00 | 800 | 63.00 | 5075 | 76.95 | 631 | 93.00 | 5514 |
| 49.05 | 5043 | 64.00 | 428 | 78.10 | 422 | 94.00 | 15506 |

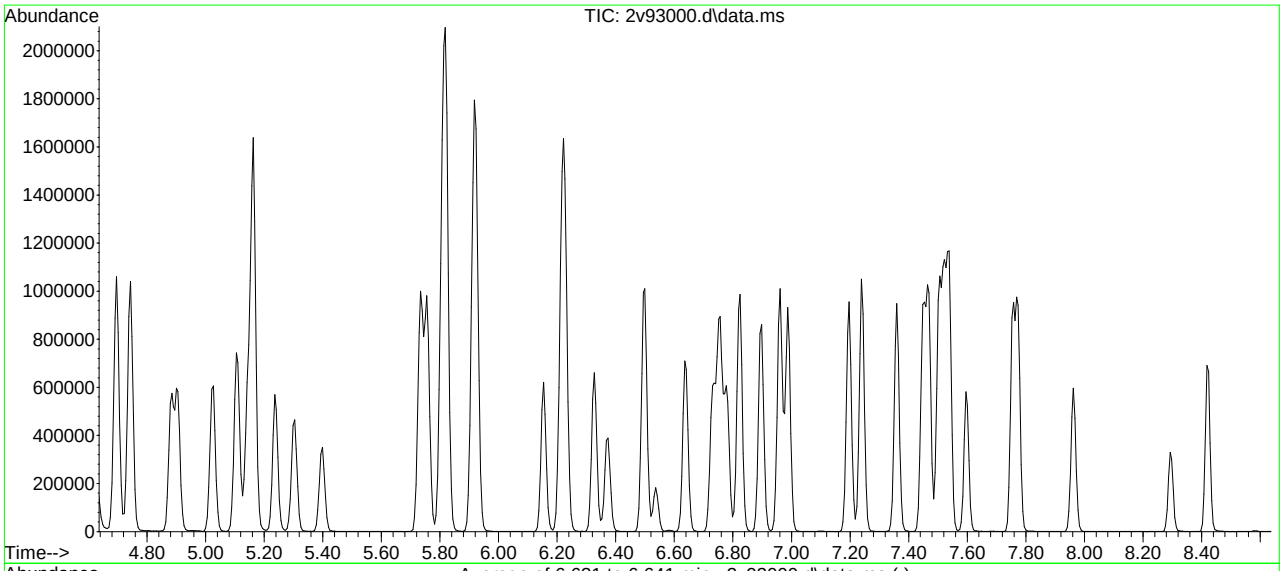
Average of 6.631 to 6.641 min.: 2v92880.d\data.ms
cc3747-50
Modified:subtracted

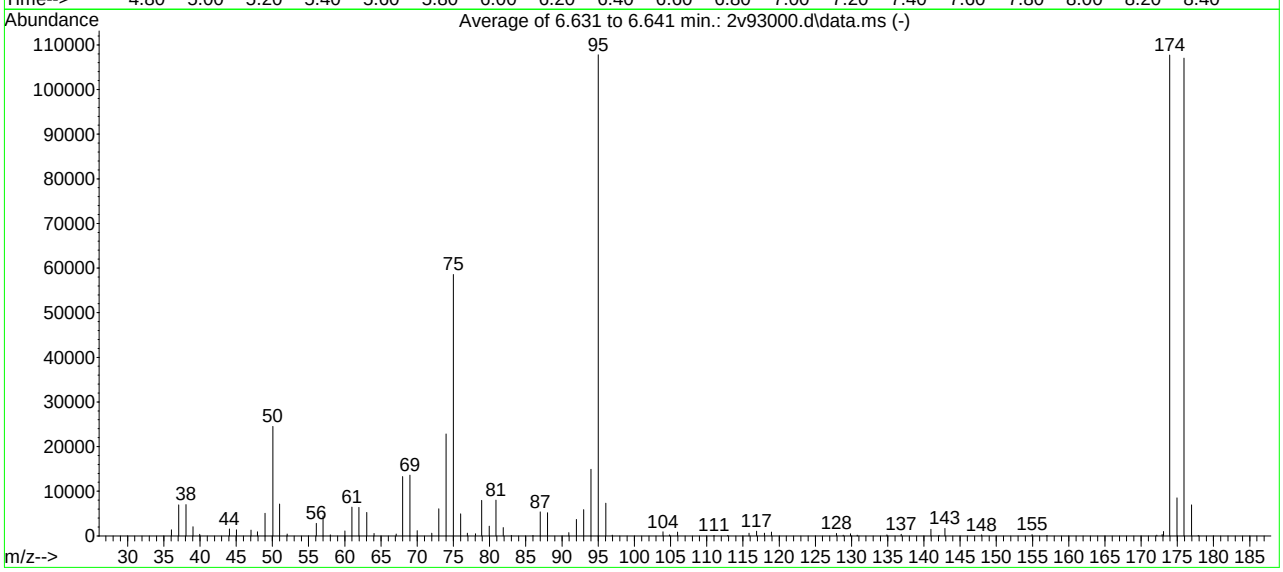
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 95.00 | 107864 | 117.95 | 611 | 147.95 | 242 | | |
| 96.00 | 7368 | 118.85 | 744 | 154.85 | 230 | | |
| 97.00 | 191 | 127.95 | 504 | 156.90 | 168 | | |
| 103.90 | 790 | 128.90 | 188 | 158.80 | 119 | | |
| 104.85 | 190 | 129.85 | 565 | 160.90 | 89 | | |
| 105.95 | 767 | 134.85 | 233 | 173.00 | 1322 | | |
| 109.90 | 79 | 136.80 | 220 | 173.90 | 105272 | | |
| 110.90 | 101 | 140.85 | 1462 | 174.95 | 8354 | | |
| 112.90 | 83 | 142.90 | 1657 | 175.90 | 105992 | | |
| 115.85 | 503 | 145.95 | 185 | 176.90 | 7017 | | |
| 116.95 | 984 | 147.80 | 79 | 177.95 | 188 | | |

SW-846 Method 8260

Data File : C:\msdchem\1\data\lo...0-3\v2v3777\2v93000.d Vial: 32
Acq On : 29 Sep 2022 9:38 pm Operator: KYLEM
Sample : bfb Inst : MS2V
Misc : MS62471,V2V3777,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2V3747.M (RTE Integrator)
Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)




AutoFind: Scans 1248, 1249, 1250; Background Corrected with Scan 1241

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 22.8 | 24531 | PASS |
| 75 | 95 | 30 | 60 | 54.4 | 58573 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 107768 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 7341 | PASS |
| 173 | 174 | 0.00 | 2 | 0.9 | 1002 | PASS |
| 174 | 95 | 50 | 120 | 100.0 | 107731 | PASS |
| 175 | 174 | 5 | 9 | 7.9 | 8516 | PASS |
| 176 | 174 | 95 | 101 | 99.4 | 107051 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 6955 | PASS |

2v93000.d M2V3747.M Mon Oct 03 00:12:41 2022

Average of 6.631 to 6.641 min.: 2v93000.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.05 | 1343 | 51.00 | 7129 | 68.00 | 13269 | 79.95 | 2161 |
| 37.05 | 6973 | 52.05 | 385 | 69.00 | 13597 | 80.90 | 7994 |
| 38.05 | 7017 | 56.05 | 2810 | 70.00 | 1174 | 81.90 | 1853 |
| 39.05 | 2065 | 57.00 | 4455 | 72.00 | 602 | 83.00 | 90 |
| 39.95 | 340 | 58.00 | 194 | 73.00 | 6094 | 86.00 | 82 |
| 44.05 | 1547 | 60.00 | 1072 | 74.00 | 22851 | 87.00 | 5376 |
| 45.05 | 1374 | 61.00 | 6418 | 75.00 | 58573 | 88.00 | 5181 |
| 47.05 | 1274 | 61.95 | 6348 | 76.00 | 4900 | 90.95 | 714 |
| 47.95 | 888 | 63.05 | 5249 | 76.95 | 606 | 92.00 | 3653 |
| 49.00 | 5052 | 64.05 | 516 | 78.05 | 458 | 93.00 | 5864 |
| 50.05 | 24531 | 67.10 | 383 | 78.90 | 7960 | 94.00 | 14914 |

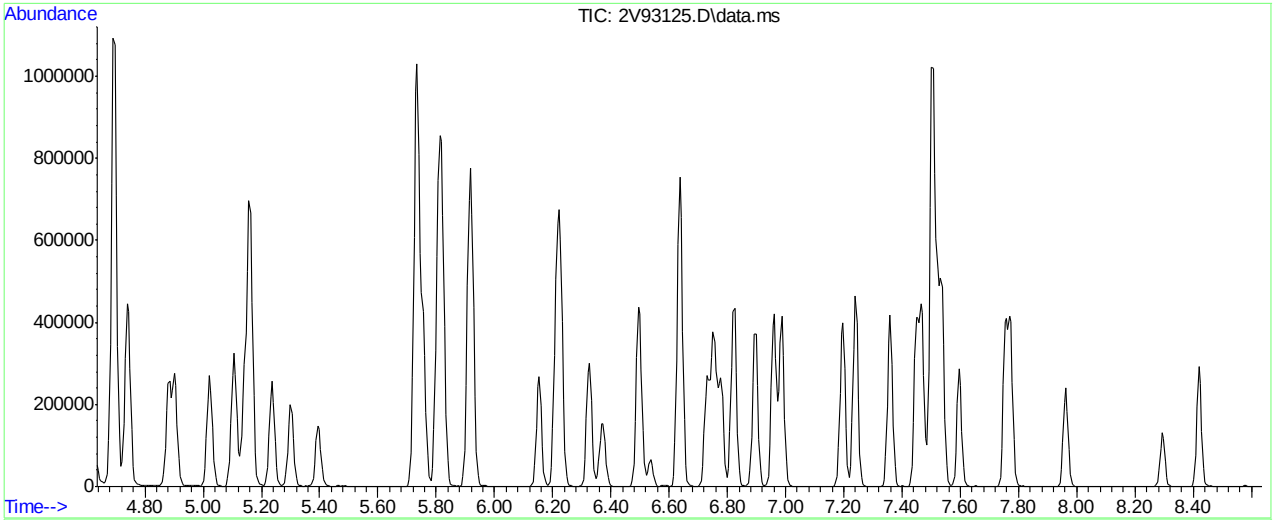
Average of 6.631 to 6.641 min.: 2v93000.d\data.ms
bfb
Modified:subtracted

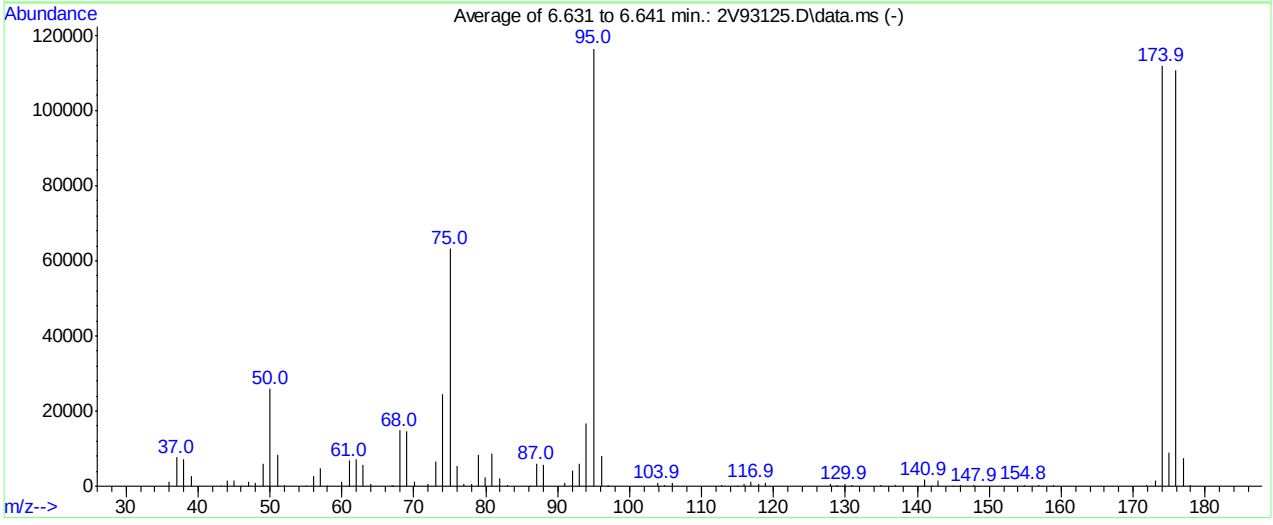
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 95.00 | 107768 | 118.95 | 863 | 154.95 | 274 | | |
| 96.05 | 7341 | 127.90 | 544 | 157.00 | 92 | | |
| 96.95 | 191 | 128.85 | 183 | 172.15 | 169 | | |
| 103.95 | 936 | 129.85 | 464 | 172.90 | 302 | | |
| 104.85 | 221 | 130.80 | 187 | 173.10 | 1002 | | |
| 105.95 | 829 | 134.90 | 255 | 173.95 | 107731 | | |
| 111.00 | 102 | 136.85 | 350 | 174.95 | 8516 | | |
| 112.90 | 87 | 140.95 | 1487 | 175.90 | 107051 | | |
| 115.85 | 585 | 142.10 | 83 | 176.95 | 6955 | | |
| 116.90 | 1057 | 142.90 | 1685 | 177.90 | 85 | | |
| 117.95 | 595 | 147.95 | 245 | | | | |

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\V2V3782\2V93125.D  Vial: 4
Acq On : 3 Oct 2022 11:49 am  Operator: taylors
Sample : bfb  Inst : MS2V
Misc : MS62619,V2V3782,5,,,,1  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2V3747.M (RTE Integrator)
Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)




AutoFind: Scans 1248, 1249, 1250; Background Corrected with Scan 1241

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 22.2 | 25920 | PASS |
| 75 | 95 | 30 | 60 | 54.3 | 63240 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 116496 | PASS |
| 96 | 95 | 5 | 9 | 6.9 | 7982 | PASS |
| 173 | 174 | 0.00 | 2 | 1.3 | 1457 | PASS |
| 174 | 95 | 50 | 120 | 96.0 | 111837 | PASS |
| 175 | 174 | 5 | 9 | 8.1 | 9089 | PASS |
| 176 | 174 | 95 | 101 | 99.0 | 110755 | PASS |
| 177 | 176 | 5 | 9 | 6.9 | 7611 | PASS |

2V93125.D M2V3747.M Mon Oct 03 16:12:12 2022 RPT1

Average of 6.631 to 6.641 min.: 2V93125.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.00 | 1305 | 50.05 | 25920 | 64.00 | 488 | 76.95 | 745 |
| 37.05 | 7661 | 51.10 | 8487 | 67.00 | 244 | 78.00 | 585 |
| 38.05 | 7288 | 52.00 | 353 | 67.20 | 153 | 78.90 | 8275 |
| 39.05 | 2688 | 55.05 | 133 | 68.00 | 14780 | 79.95 | 2275 |
| 43.10 | 89 | 56.00 | 2826 | 69.00 | 14630 | 80.90 | 8555 |
| 44.05 | 1359 | 57.05 | 4732 | 70.05 | 1278 | 81.90 | 1960 |
| 45.00 | 1512 | 58.00 | 107 | 72.00 | 661 | 83.05 | 204 |
| 46.00 | 103 | 60.00 | 1245 | 73.00 | 6624 | 86.10 | 77 |
| 47.05 | 1247 | 61.00 | 6753 | 74.00 | 24352 | 87.00 | 5832 |
| 48.00 | 856 | 62.05 | 7248 | 75.05 | 63240 | 88.00 | 5789 |
| 49.05 | 5889 | 63.00 | 5548 | 76.00 | 5455 | 90.90 | 801 |

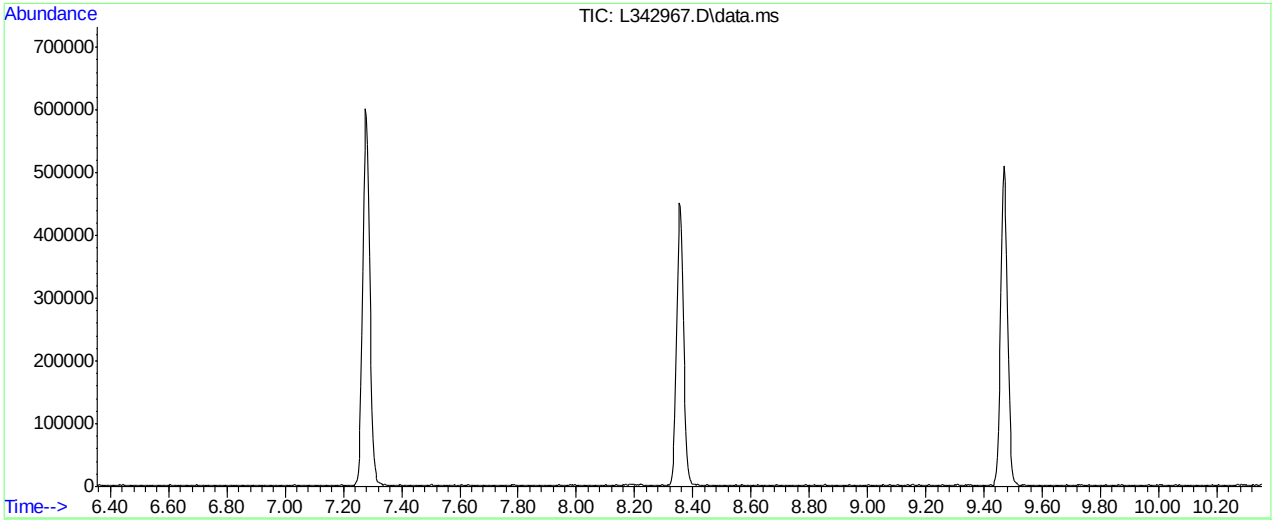
Average of 6.631 to 6.641 min.: 2V93125.D\data.ms
bfb
Modified:subtracted

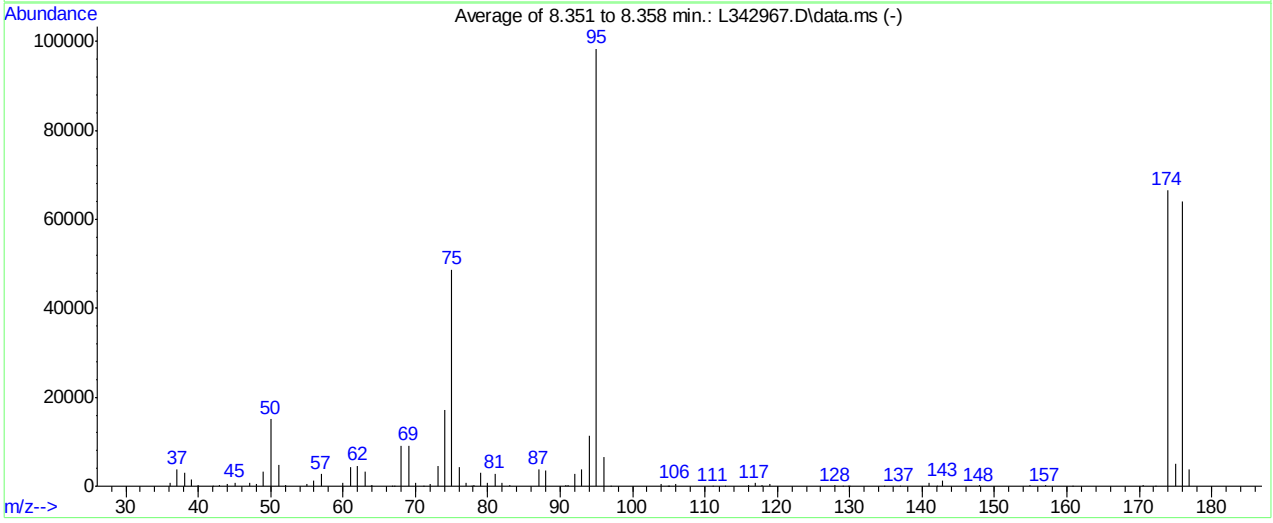
| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 92.00 | 4054 | 115.00 | 86 | 140.95 | 1763 | 173.95 | 111837 |
| 93.00 | 6093 | 115.90 | 554 | 142.00 | 111 | 175.00 | 9089 |
| 94.00 | 16648 | 116.90 | 1109 | 142.90 | 1607 | 175.95 | 110755 |
| 95.00 | 116496 | 117.95 | 634 | 144.90 | 82 | 176.95 | 7611 |
| 96.05 | 7982 | 118.90 | 934 | 145.95 | 257 | 177.90 | 177 |
| 96.90 | 99 | 127.95 | 557 | 147.90 | 192 | | |
| 97.10 | 127 | 128.90 | 328 | 154.85 | 334 | | |
| 103.90 | 861 | 129.90 | 562 | 156.90 | 168 | | |
| 104.90 | 220 | 130.85 | 294 | 158.90 | 181 | | |
| 105.90 | 855 | 134.85 | 244 | 171.90 | 202 | | |
| 112.85 | 186 | 136.95 | 320 | 173.05 | 1457 | | |

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\VL10355\L342967.D  Vial: 1
Acq On : 15 Jun 2022 4:00 pm  Operator: BridgetK
Sample : bfb  Inst : GCMSL
Misc : MS59602,VL10355,5,,,,1  Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10355.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um




AutoFind: Scans 2139, 2140, 2141; Background Corrected with Scan 2126

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 15.4 | 15125 | PASS |
| 75 | 95 | 30 | 60 | 49.4 | 48661 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 98445 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 6625 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 67.7 | 66648 | PASS |
| 175 | 174 | 5 | 9 | 7.7 | 5157 | PASS |
| 176 | 174 | 95 | 101 | 96.2 | 64099 | PASS |
| 177 | 176 | 5 | 9 | 6.0 | 3835 | PASS |

L342967.D ML10355.M Thu Jun 16 15:29:52 2022 1

Average of 8.351 to 8.358 min.: L342967.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.05 | 681 | 49.00 | 3250 | 63.90 | 134 | 75.00 | 48661 |
| 37.10 | 3842 | 50.05 | 15125 | 64.05 | 194 | 76.00 | 4379 |
| 38.05 | 2959 | 51.10 | 4796 | 66.80 | 105 | 76.95 | 656 |
| 39.05 | 1410 | 52.10 | 204 | 67.10 | 123 | 77.70 | 75 |
| 39.95 | 141 | 55.05 | 425 | 68.00 | 9051 | 78.05 | 290 |
| 42.00 | 89 | 56.00 | 1315 | 69.05 | 9131 | 78.95 | 3052 |
| 43.00 | 221 | 57.00 | 2728 | 70.00 | 827 | 79.95 | 802 |
| 44.00 | 539 | 60.00 | 741 | 71.10 | 97 | 80.95 | 2857 |
| 45.05 | 771 | 61.00 | 4236 | 72.00 | 408 | 81.90 | 683 |
| 47.05 | 720 | 62.05 | 4544 | 73.05 | 4508 | 83.00 | 262 |
| 48.00 | 555 | 63.00 | 3193 | 74.00 | 17262 | 87.00 | 3854 |

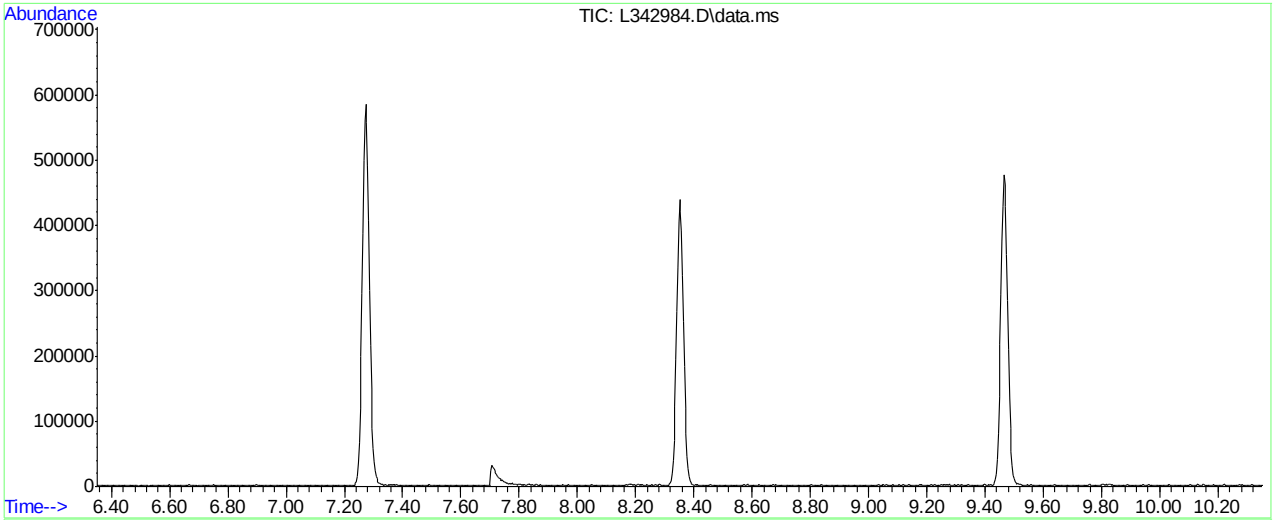
Average of 8.351 to 8.358 min.: L342967.D\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 87.95 | 3421 | 105.10 | 72 | 130.00 | 120 | 172.30 | 128 |
| 90.80 | 148 | 105.90 | 593 | 134.80 | 88 | 173.90 | 66648 |
| 91.10 | 140 | 111.10 | 71 | 136.90 | 103 | 174.95 | 5157 |
| 92.00 | 2698 | 112.80 | 95 | 140.90 | 887 | 175.90 | 64099 |
| 93.00 | 3888 | 115.95 | 320 | 142.00 | 85 | 176.95 | 3835 |
| 94.00 | 11458 | 116.90 | 681 | 142.85 | 1175 | | |
| 95.00 | 98445 | 117.80 | 367 | 147.90 | 149 | | |
| 96.00 | 6625 | 118.95 | 520 | 154.90 | 149 | | |
| 97.00 | 75 | 127.95 | 214 | 157.00 | 151 | | |
| 103.95 | 450 | 129.00 | 123 | 160.80 | 72 | | |
| 104.80 | 67 | 129.80 | 88 | 170.50 | 143 | | |

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\VL10355\L342984.D  Vial: 18
Acq On : 16 Jun 2022 9:43 am  Operator: BridgetK
Sample : bfb2  Inst : GCMSL
Misc : MS59602,VL10355,5,,,,1  Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10355.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um




AutoFind: Scans 2138, 2139, 2140; Background Corrected with Scan 2124

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 15.8 | 14743 | PASS |
| 75 | 95 | 30 | 60 | 50.6 | 47061 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 93093 | PASS |
| 96 | 95 | 5 | 9 | 6.9 | 6458 | PASS |
| 173 | 174 | 0.00 | 2 | 0.3 | 176 | PASS |
| 174 | 95 | 50 | 120 | 68.9 | 64179 | PASS |
| 175 | 174 | 5 | 9 | 7.4 | 4737 | PASS |
| 176 | 174 | 95 | 101 | 97.9 | 62803 | PASS |
| 177 | 176 | 5 | 9 | 6.6 | 4165 | PASS |

L342984.D ML10355.M Thu Jun 16 15:31:19 2022 1

Average of 8.348 to 8.354 min.: L342984.D\data.ms
bfb2
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 35.95 | 826 | 48.10 | 471 | 62.00 | 4093 | 74.05 | 15753 |
| 37.05 | 3606 | 49.05 | 3350 | 63.05 | 3093 | 75.00 | 47061 |
| 38.10 | 3755 | 50.00 | 14743 | 63.85 | 157 | 76.00 | 4182 |
| 39.05 | 1470 | 51.05 | 4490 | 64.10 | 175 | 76.95 | 672 |
| 40.00 | 1 | 51.90 | 192 | 66.95 | 9 | 77.30 | 186 |
| 41.05 | 163 | 54.80 | 83 | 68.05 | 9890 | 77.90 | 113 |
| 43.00 | 117 | 55.05 | 261 | 69.00 | 8997 | 78.05 | 212 |
| 44.00 | 201 | 56.05 | 1433 | 70.00 | 804 | 78.95 | 2685 |
| 45.00 | 772 | 57.05 | 1808 | 71.20 | 80 | 79.90 | 977 |
| 47.05 | 886 | 60.05 | 754 | 71.95 | 616 | 80.90 | 2942 |
| 47.60 | 169 | 61.00 | 4357 | 72.95 | 3914 | 81.85 | 647 |

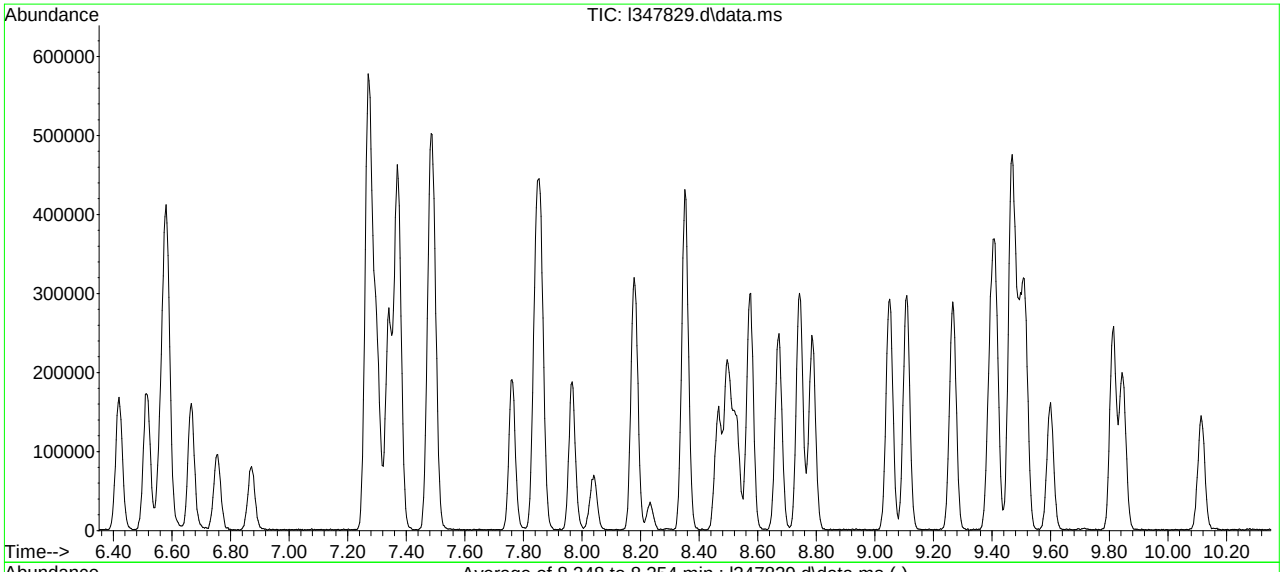
Average of 8.348 to 8.354 min.: L342984.D\data.ms
bfb2
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 82.90 | 162 | 105.00 | 97 | 128.90 | 68 | 172.90 | 176 |
| 87.00 | 3873 | 105.95 | 413 | 129.80 | 130 | 173.90 | 64179 |
| 87.90 | 3598 | 112.70 | 69 | 130.80 | 92 | 174.95 | 4737 |
| 90.95 | 475 | 114.95 | 214 | 134.90 | 82 | 175.90 | 62803 |
| 92.00 | 2503 | 115.80 | 162 | 136.90 | 220 | 176.90 | 4165 |
| 92.95 | 4004 | 115.95 | 337 | 140.90 | 998 | 177.70 | 71 |
| 94.00 | 10851 | 116.90 | 786 | 142.90 | 844 | 206.90 | 80 |
| 95.00 | 93093 | 117.70 | 79 | 147.85 | 272 | | |
| 96.00 | 6458 | 118.00 | 312 | 154.85 | 240 | | |
| 97.00 | 247 | 118.90 | 496 | 156.90 | 73 | | |
| 103.95 | 352 | 127.95 | 320 | 160.90 | 188 | | |

SW-846 Method 8260

Data File : C:\msdchem\1\data\lo...9-due today\l347829.d Vial: 4
Acq On : 4 Oct 2022 10:21 am Operator: nicoleh
Sample : bfb Inst : GCMSL
Misc : MS62669,VL10519,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10355.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um




AutoFind: Scans 2138, 2139, 2140; Background Corrected with Scan 2122

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 15.4 | 14688 | PASS |
| 75 | 95 | 30 | 60 | 45.8 | 43632 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 95365 | PASS |
| 96 | 95 | 5 | 9 | 7.0 | 6660 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 72.1 | 68787 | PASS |
| 175 | 174 | 5 | 9 | 7.7 | 5286 | PASS |
| 176 | 174 | 95 | 101 | 98.0 | 67405 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 4530 | PASS |

l347829.d ML10355.M Wed Oct 05 01:26:51 2022

Average of 8.348 to 8.354 min.: l347829.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 36.05 | 920 | 50.05 | 14688 | 66.95 | 323 | 78.10 | 429 |
| 37.05 | 2981 | 51.10 | 4301 | 68.05 | 8486 | 78.95 | 1680 |
| 38.05 | 3095 | 52.20 | 80 | 69.05 | 8815 | 79.90 | 672 |
| 39.10 | 1371 | 56.05 | 1078 | 70.15 | 476 | 80.95 | 1583 |
| 40.00 | 190 | 57.05 | 2371 | 72.00 | 425 | 81.90 | 98 |
| 44.00 | 413 | 58.10 | 213 | 73.05 | 3946 | 82.05 | 270 |
| 45.00 | 513 | 60.10 | 626 | 74.10 | 13795 | 87.05 | 3999 |
| 45.20 | 314 | 61.10 | 3307 | 75.10 | 43632 | 88.05 | 3779 |
| 47.00 | 1161 | 61.95 | 3143 | 76.05 | 3400 | 91.00 | 368 |
| 48.00 | 419 | 63.05 | 2931 | 77.00 | 519 | 92.05 | 2487 |
| 49.05 | 3004 | 64.20 | 173 | 77.80 | 121 | 93.05 | 3488 |

Average of 8.348 to 8.354 min.: l347829.d\data.ms
bfb
Modified:subtracted

| m/z | abund. | m/z | abund. | m/z | abund. | m/z | abund. |
|---|---|---|---|---|---|---|---|
| 94.05 | 9912 | 127.95 | 200 | 157.10 | 129 | | |
| 95.10 | 95365 | 128.95 | 142 | 158.90 | 81 | | |
| 96.10 | 6660 | 129.90 | 241 | 174.00 | 68787 | | |
| 97.10 | 96 | 134.80 | 83 | 174.95 | 5286 | | |
| 103.85 | 213 | 136.90 | 105 | 176.00 | 67405 | | |
| 105.00 | 103 | 140.85 | 717 | 176.95 | 4530 | | |
| 105.85 | 323 | 142.95 | 987 | | | | |
| 115.85 | 224 | 147.80 | 132 | | | | |
| 116.90 | 355 | 150.00 | 70 | | | | |
| 117.80 | 118 | 155.00 | 193 | | | | |
| 118.95 | 359 | 156.90 | 109 | | | | |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226122.D
Acq On : 13 Sep 2022 9:28 pm
Operator : PrashanS
Sample : IC9688-0.2
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 17:34:03 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.915 | 65 | 224503 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.935 | 168 | 423002 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 614318 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 497969 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 207384 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 188485 | 49.53 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.06% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.160 | 65 | 213986 | 51.33 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 102.66% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 696966 | 53.88 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 107.76% | | | |
| 97) 4-bromofluorobenzene (s) | 7.087 | 95 | 215907 | 50.38 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.76% | | | |
| Target Compounds | | | | | | Qvalue |
| 7) dichlorodifluoromethane | 1.631 | 85 | 1176 | 0.22 | ug/L | 86 |
| 13) trichlorofluoromethane | 2.347 | 101 | 1219 | 0.19 | ug/L | 64 |
| 16) freon 113 | 2.649 | 151 | 646 | 0.26 | ug/L # | 76 |
| 25) methyl tert butyl ether | 3.085 | 73 | 2077 | 0.20 | ug/L | 76 |
| 27) hexane | 3.258 | 57 | 833 | 0.20 | ug/L | 84 |
| 28) di-isopropyl ether | 3.339 | 45 | 2079 | 0.21 | ug/L # | 58 |
| 29) ethyl tert-butyl ether | 3.557 | 59 | 1876 | 0.19 | ug/L | 85 |
| 30) 2-butanone | 3.660 | 72 | 535 | 0.89 | ug/L # | 52 |
| 31) 1,1-dichloroethane | 3.358 | 63 | 1404 | 0.25 | ug/L | 90 |
| 32) chloroprene | 3.403 | 53 | 873 | 0.20 | ug/L | 83 |
| 37) cis-1,2-dichloroethene | 3.679 | 96 | 667 | 0.18 | ug/L | 97 |
| 45) 1,1,1-trichloroethane | 3.977 | 97 | 977 | 0.18 | ug/L # | 6 |
| 46) cyclohexane | 4.025 | 84 | 1009 | 0.20 | ug/L # | 65 |
| 47) 1,1-dichloropropene | 4.067 | 75 | 1030 | 0.23 | ug/L | 87 |
| 48) carbon tetrachloride | 4.070 | 117 | 916 | 0.20 | ug/L | 84 |
| 53) tert-amyl methyl ether | 4.221 | 73 | 2050 | 0.20 | ug/L | 80 |
| 54) 2,2,4-trimethylpentane | 4.228 | 57 | 1648 | 0.21 | ug/L | 93 |
| 56) benzene | 4.183 | 78 | 2614 | 0.21 | ug/L | 94 |
| 59) trichloroethene | 4.564 | 95 | 615 | 0.18 | ug/L # | 59 |
| 65) methylcyclohexane | 4.718 | 83 | 1075 | 0.21 | ug/L # | 60 |
| 67) bromodichloromethane | 4.863 | 83 | 1072 | 0.23 | ug/L | 81 |
| 68) cis-1,3-dichloropropene | 5.139 | 75 | 1150 | 0.21 | ug/L | 62 |
| 75) trans-1,3-dichloropropene | 5.492 | 75 | 859 | 0.19 | ug/L # | 61 |
| 76) ethyl methacrylate | 5.505 | 69 | 908 | 0.19 | ug/L | 72 |
| 77) 1,1,2-trichloroethane | 5.627 | 83 | 524 | 0.21 | ug/L | 81 |
| 79) tetrachloroethene | 5.707 | 166 | 525 | 0.17 | ug/L | 90 |
| 80) 1,3-dichloropropane | 5.752 | 76 | 998 | 0.21 | ug/L # | 43 |
| 82) dibromochloromethane | 5.899 | 129 | 854 | 0.26 | ug/L | 82 |
| 83) 1,2-dibromoethane | 6.002 | 107 | 563 | 0.18 | ug/L | 80 |
| 84) n-butyl ether | 6.345 | 57 | 1775 | 0.16 | ug/L | 97 |
| 87) ethylbenzene | 6.368 | 91 | 3191 | 0.24 | ug/L | 79 |
| 88) m,p-xylene | 6.464 | 106 | 1920 | 0.37 | ug/L | 89 |
| 89) o-xylene | 6.737 | 106 | 964 | 0.18 | ug/L # | 50 |
| 92) styrene | 6.753 | 104 | 1484 | 0.16 | ug/L | 93 |
| 94) isopropylbenzene | 6.958 | 105 | 2576 | 0.19 | ug/L | 90 |
| 98) bromobenzene | 7.199 | 156 | 568 | 0.17 | ug/L # | 30 |
| 99) 1,1,2,2-tetrachloroethane | 7.160 | 83 | 901 | 0.21 | ug/L | 91 |
| 102) n-propylbenzene | 7.241 | 91 | 2912 | 0.20 | ug/L | 87 |
| 105) 1,3,5-trimethylbenzene | 7.356 | 105 | 1907 | 0.19 | ug/L | 87 |
| 106) tert-butylbenzene | 7.568 | 119 | 1577 | 0.18 | ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226122.D
Acq On : 13 Sep 2022 9:28 pm
Operator : PrashanS
Sample : IC9688-0.2
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 17:34:03 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

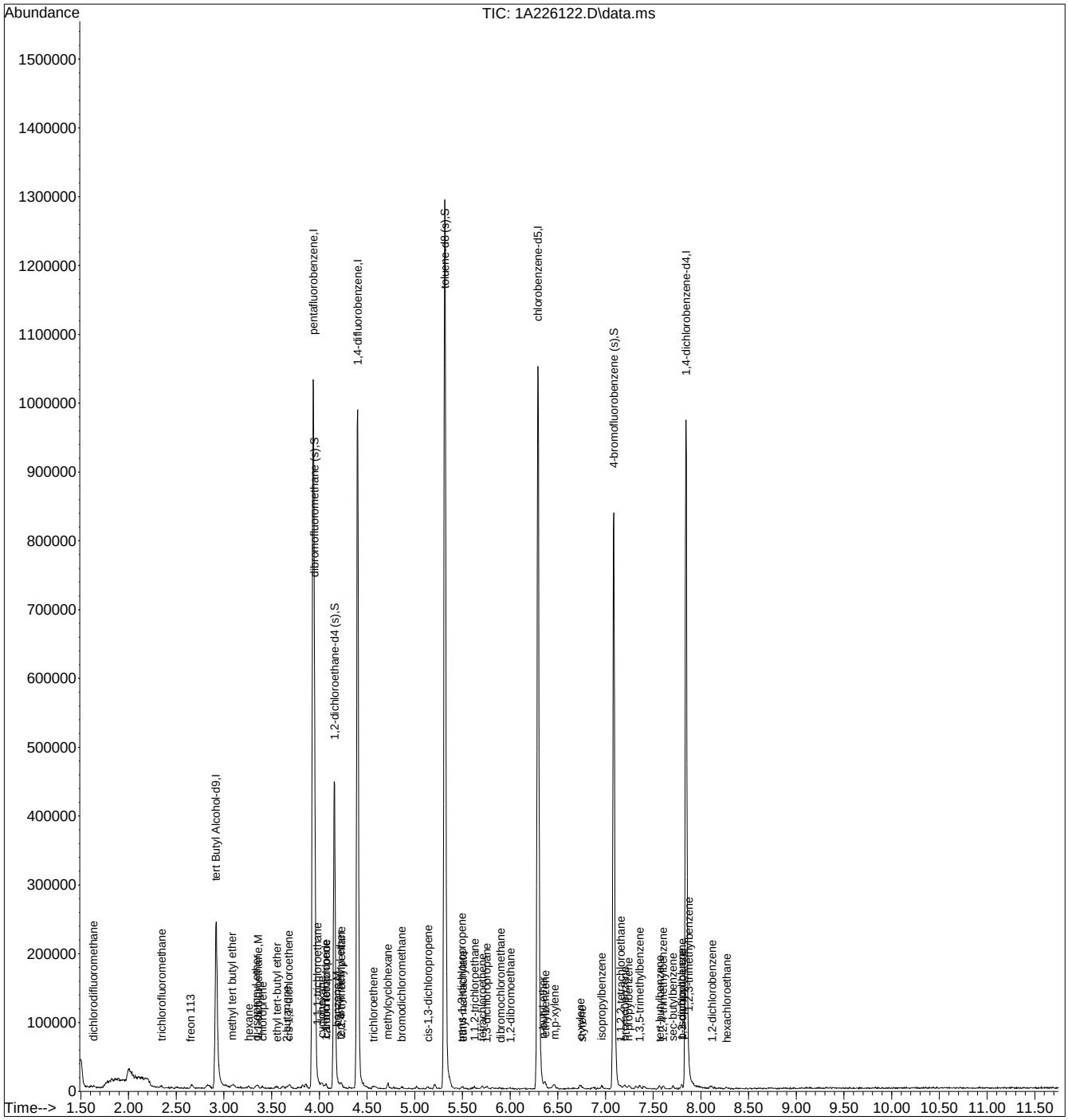
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 107) 1,2,4-trimethylbenzene | 7.603 | 105 | 1813 | 0.18 | ug/L | 84 |
| 108) sec-butylbenzene | 7.706 | 105 | 2295 | 0.19 | ug/L | 87 |
| 109) 1,3-dichlorobenzene | 7.802 | 146 | 1105 | 0.19 | ug/L | 79 |
| 110) p-isopropyltoluene | 7.799 | 119 | 1751 | 0.17 | ug/L | 92 |
| 111) 1,2,3-trimethylbenzene | 7.873 | 105 | 1820 | 0.18 | ug/L | 88 |
| 113) 1,2-dichlorobenzene | 8.117 | 146 | 936 | 0.17 | ug/L | 94 |
| 121) hexachloroethane | 8.271 | 119 | 320 | 0.19 | ug/L # | 30 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226122.D
Acq On : 13 Sep 2022 9:28 pm
Operator : PrashanS
Sample : IC9688-0.2
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 20 17:34:03 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226123.D
Acq On : 13 Sep 2022 9:52 pm
Operator : PrashanS
Sample : IC9688-0.5
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 20 17:35:29 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.921 | 65 | 216369 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.935 | 168 | 413709 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 593743 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 6.294 | 117 | 498596 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 199162 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 182212 | 48.95 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.90% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 212768 | 52.81 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 105.62% | | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 689994 | 53.28 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.56% | | | | |
| 97) 4-bromofluorobenzene (s) | 7.087 | 95 | 202384 | 49.17 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.34% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 7) dichlorodifluoromethane | 1.635 | 85 | 2630 | 0.51 | ug/L | | 93 |
| 8) chloromethane | 1.779 | 50 | 1941 | 0.54 | ug/L | | 94 |
| 9) vinyl chloride | 1.866 | 62 | 2560 | 0.49 | ug/L | | 90 |
| 13) trichlorofluoromethane | 2.337 | 101 | 2942 | 0.47 | ug/L | | 95 |
| 16) freon 113 | 2.658 | 151 | 1231 | 0.50 | ug/L | # | 74 |
| 17) 1,1-dichloroethene | 2.661 | 96 | 1715 | 0.60 | ug/L | # | 75 |
| 25) methyl tert butyl ether | 3.088 | 73 | 5631 | 0.56 | ug/L | | 90 |
| 26) trans-1,2-dichloroethene | 3.098 | 96 | 1626 | 0.53 | ug/L | # | 71 |
| 27) hexane | 3.258 | 57 | 2159 | 0.53 | ug/L | # | 55 |
| 28) di-isopropyl ether | 3.351 | 45 | 4877 | 0.51 | ug/L | | 94 |
| 29) ethyl tert-butyl ether | 3.554 | 59 | 5544 | 0.56 | ug/L | | 83 |
| 30) 2-butanone | 3.653 | 72 | 1187 | 2.01 | ug/L | # | 43 |
| 31) 1,1-dichloroethane | 3.361 | 63 | 2672 | 0.48 | ug/L | | 85 |
| 32) chloroprene | 3.400 | 53 | 2658 | 0.62 | ug/L | | 90 |
| 33) acrylonitrile | 3.069 | 53 | 827 | 0.52 | ug/L | | 91 |
| 37) cis-1,2-dichloroethene | 3.682 | 96 | 1741 | 0.49 | ug/L | # | 53 |
| 38) propionitrile | 3.695 | 54 | 3276 | 5.30 | ug/L | | 82 |
| 39) methyl acrylate | 3.704 | 85 | 469 | 0.59 | ug/L | # | 1 |
| 44) methacrylonitrile | 3.788 | 67 | 1072 | 0.57 | ug/L | | 91 |
| 45) 1,1,1-trichloroethane | 3.984 | 97 | 2875 | 0.55 | ug/L | | 90 |
| 46) cyclohexane | 4.032 | 84 | 2645 | 0.54 | ug/L | | 83 |
| 47) 1,1-dichloropropene | 4.067 | 75 | 2626 | 0.60 | ug/L | | 88 |
| 48) carbon tetrachloride | 4.070 | 117 | 2363 | 0.52 | ug/L | | 87 |
| 53) tert-amyl methyl ether | 4.231 | 73 | 5102 | 0.52 | ug/L | | 90 |
| 54) 2,2,4-trimethylpentane | 4.231 | 57 | 4180 | 0.54 | ug/L | | 89 |
| 56) benzene | 4.186 | 78 | 6949 | 0.58 | ug/L | | 87 |
| 57) heptane | 4.324 | 57 | 792 | 0.52 | ug/L | # | 52 |
| 59) trichloroethene | 4.561 | 95 | 1840 | 0.57 | ug/L | # | 67 |
| 60) ethyl acrylate | 4.564 | 55 | 2534 | 0.48 | ug/L | | 87 |
| 62) 2-chloroethyl vinyl ether | 5.010 | 63 | 2012 | 2.98 | ug/L | | 84 |
| 64) 1,2-dichloropropane | 4.722 | 63 | 1643 | 0.53 | ug/L | | 84 |
| 65) methylcyclohexane | 4.715 | 83 | 2315 | 0.46 | ug/L | | 98 |
| 66) dibromomethane | 4.779 | 93 | 1374 | 0.64 | ug/L | | 80 |
| 67) bromodichloromethane | 4.869 | 83 | 2555 | 0.57 | ug/L | | 77 |
| 68) cis-1,3-dichloropropene | 5.139 | 75 | 2655 | 0.51 | ug/L | | 65 |
| 69) epichlorohydrin | 5.059 | 57 | 668 | 2.94 | ug/L | # | 62 |
| 70) 4-methyl-2-pentanone | 5.206 | 58 | 3403 | 1.97 | ug/L | # | 80 |
| 74) toluene | 5.360 | 92 | 3751 | 0.52 | ug/L | | 83 |
| 75) trans-1,3-dichloropropene | 5.495 | 75 | 1848 | 0.41 | ug/L | | 83 |
| 76) ethyl methacrylate | 5.508 | 69 | 1912 | 0.41 | ug/L | # | 69 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226123.D
Acq On : 13 Sep 2022 9:52 pm
Operator : PrashanS
Sample : IC9688-0.5
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 20 17:35:29 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

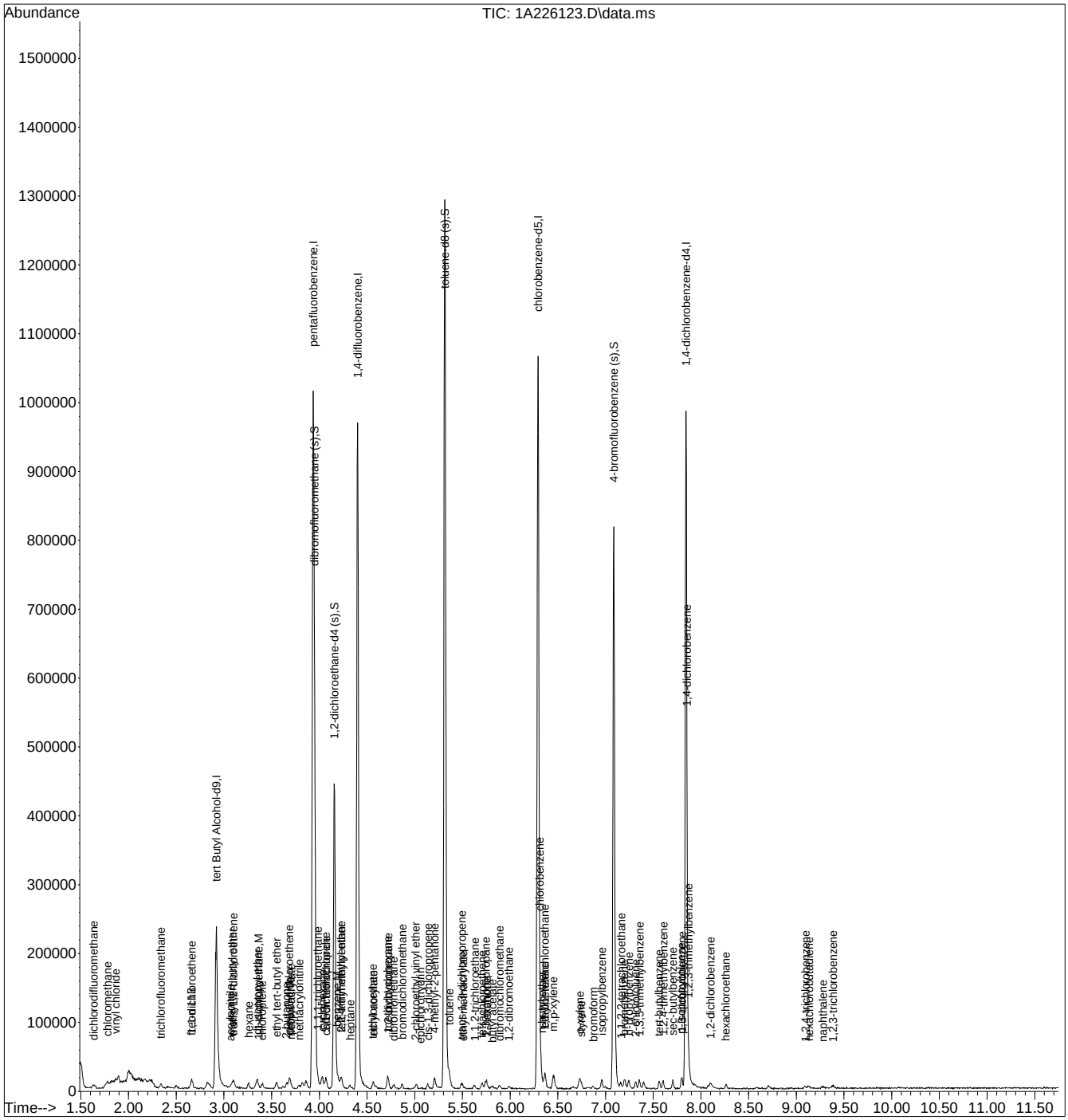
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 77) 1,1,2-trichloroethane | 5.630 | 83 | 1358 | 0.55 | ug/L | | 86 |
| 78) 2-hexanone | 5.755 | 58 | 3055 | 1.90 | ug/L | | 97 |
| 79) tetrachloroethene | 5.707 | 166 | 1797 | 0.60 | ug/L | | 92 |
| 80) 1,3-dichloropropane | 5.742 | 76 | 2519 | 0.52 | ug/L | | 93 |
| 81) butyl acetate | 5.813 | 56 | 884 | 0.38 | ug/L | # | 56 |
| 82) dibromochloromethane | 5.890 | 129 | 1899 | 0.57 | ug/L | # | 66 |
| 83) 1,2-dibromoethane | 5.986 | 107 | 2020 | 0.63 | ug/L | # | 60 |
| 84) n-butyl ether | 6.336 | 57 | 5603 | 0.50 | ug/L | | 95 |
| 85) chlorobenzene | 6.310 | 112 | 5055 | 0.63 | ug/L | | 91 |
| 86) 1,1,1,2-tetrachloroethane | 6.361 | 131 | 1426 | 0.50 | ug/L | | 83 |
| 87) ethylbenzene | 6.365 | 91 | 7355 | 0.55 | ug/L | | 95 |
| 88) m,p-xylene | 6.451 | 106 | 5703 | 1.10 | ug/L | # | 62 |
| 89) o-xylene | 6.730 | 106 | 2574 | 0.49 | ug/L | # | 68 |
| 92) styrene | 6.743 | 104 | 3785 | 0.41 | ug/L | | 92 |
| 93) bromoform | 6.872 | 173 | 1214 | 0.49 | ug/L | | 91 |
| 94) isopropylbenzene | 6.961 | 105 | 6889 | 0.52 | ug/L | | 96 |
| 98) bromobenzene | 7.196 | 156 | 1741 | 0.54 | ug/L | # | 71 |
| 99) 1,1,2,2-tetrachloroethane | 7.164 | 83 | 2289 | 0.56 | ug/L | # | 60 |
| 102) n-propylbenzene | 7.244 | 91 | 7376 | 0.53 | ug/L | | 99 |
| 103) 2-chlorotoluene | 7.314 | 126 | 1455 | 0.50 | ug/L | | 86 |
| 105) 1,3,5-trimethylbenzene | 7.356 | 105 | 4909 | 0.52 | ug/L | | 85 |
| 106) tert-butylbenzene | 7.561 | 119 | 4470 | 0.54 | ug/L | | 82 |
| 107) 1,2,4-trimethylbenzene | 7.606 | 105 | 5087 | 0.51 | ug/L | | 85 |
| 108) sec-butylbenzene | 7.706 | 105 | 6103 | 0.51 | ug/L | | 94 |
| 109) 1,3-dichlorobenzene | 7.802 | 146 | 2574 | 0.47 | ug/L | | 89 |
| 110) p-isopropyltoluene | 7.796 | 119 | 4686 | 0.46 | ug/L | | 93 |
| 111) 1,2,3-trimethylbenzene | 7.870 | 105 | 5619 | 0.57 | ug/L | | 82 |
| 112) 1,4-dichlorobenzene | 7.853 | 146 | 2935 | 0.53 | ug/L | | 82 |
| 113) 1,2-dichlorobenzene | 8.101 | 146 | 2905 | 0.55 | ug/L | | 79 |
| 117) 1,2,4-trichlorobenzene | 9.095 | 180 | 1020 | 0.37 | ug/L | | 87 |
| 118) hexachlorobutadiene | 9.134 | 225 | 436 | 0.49 | ug/L | | 92 |
| 119) naphthalene | 9.278 | 128 | 3974 | 0.41 | ug/L | | 95 |
| 120) 1,2,3-trichlorobenzene | 9.384 | 180 | 869 | 0.38 | ug/L | # | 69 |
| 121) hexachloroethane | 8.258 | 119 | 728 | 0.46 | ug/L | # | 39 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226123.D
Acq On : 13 Sep 2022 9:52 pm
Operator : PrashanS
Sample : IC9688-0.5
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 20 17:35:29 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226124.D
Acq On : 13 Sep 2022 10:16 pm
Operator : PrashanS
Sample : IC9688-1
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 20 17:36:49 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.918 | 65 | 210289 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.932 | 168 | 400927 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 575940 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 493128 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 198236 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 179667 | 49.81 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.62% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.160 | 65 | 207126 | 53.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 106.00% | | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 677049 | 52.86 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 105.72% | | | | |
| 97) 4-bromofluorobenzene (s) | 7.087 | 95 | 206225 | 50.34 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.68% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 3) ethanol | 2.421 | 45 | 3360 | 129.97 | ug/L | | 95 |
| 4) tertiary butyl alcohol | 2.970 | 59 | 2758 | 5.76 | ug/L | | 82 |
| 6) chlorodifluoromethane | 1.644 | 51 | 3816 | 1.11 | ug/L | | 90 |
| 7) dichlorodifluoromethane | 1.632 | 85 | 5332 | 1.06 | ug/L | | 84 |
| 8) chloromethane | 1.773 | 50 | 3902 | 1.11 | ug/L | | 79 |
| 9) vinyl chloride | 1.866 | 62 | 4792 | 0.95 | ug/L | | 82 |
| 10) 1,3-butadiene | 1.895 | 54 | 4575 | 1.10 | ug/L | | 92 |
| 11) bromomethane | 2.110 | 96 | 2448 | 1.44 | ug/L | # | 46 |
| 12) chloroethane | 2.167 | 64 | 3454 | 1.10 | ug/L | | 82 |
| 13) trichlorofluoromethane | 2.334 | 101 | 6364 | 1.05 | ug/L | | 89 |
| 14) ethyl ether | 2.498 | 74 | 2229 | 1.19 | ug/L | | 97 |
| 16) freon 113 | 2.662 | 151 | 2697 | 1.13 | ug/L | # | 72 |
| 17) 1,1-dichloroethene | 2.665 | 96 | 2763 | 1.00 | ug/L | # | 76 |
| 18) acetone | 2.668 | 58 | 1634 | 4.57 | ug/L | # | 46 |
| 21) iso-butyl alcohol | 2.851 | 43 | 3762 | 12.11 | ug/L | | 91 |
| 22) carbon disulfide | 2.819 | 76 | 10902 | 1.41 | ug/L | | 90 |
| 23) methylene chloride | 2.947 | 84 | 4296 | 1.38 | ug/L | | 75 |
| 25) methyl tert butyl ether | 3.085 | 73 | 10197 | 1.04 | ug/L | | 87 |
| 26) trans-1,2-dichloroethene | 3.108 | 96 | 3338 | 1.13 | ug/L | | 91 |
| 27) hexane | 3.255 | 57 | 4383 | 1.11 | ug/L | | 86 |
| 28) di-isopropyl ether | 3.345 | 45 | 9124 | 0.99 | ug/L | | 79 |
| 29) ethyl tert-butyl ether | 3.550 | 59 | 9683 | 1.02 | ug/L | | 95 |
| 30) 2-butanone | 3.656 | 72 | 2302 | 4.03 | ug/L | # | 76 |
| 31) 1,1-dichloroethane | 3.358 | 63 | 6047 | 1.12 | ug/L | | 90 |
| 32) chloroprene | 3.400 | 53 | 4863 | 1.18 | ug/L | | 92 |
| 33) acrylonitrile | 3.069 | 53 | 1514 | 0.98 | ug/L | | 83 |
| 35) ethyl acetate | 3.663 | 45 | 722 | 1.14 | ug/L | # | 66 |
| 36) 2,2-dichloropropane | 3.695 | 77 | 4305 | 1.11 | ug/L | | 95 |
| 37) cis-1,2-dichloroethene | 3.682 | 96 | 3792 | 1.10 | ug/L | # | 74 |
| 38) propionitrile | 3.695 | 54 | 6419 | 10.72 | ug/L | | 83 |
| 39) methyl acrylate | 3.698 | 85 | 678 | 0.88 | ug/L | # | 42 |
| 40) bromochloromethane | 3.814 | 128 | 1959 | 1.15 | ug/L | # | 81 |
| 42) chloroform | 3.858 | 83 | 7968 | 1.40 | ug/L | | 89 |
| 44) methacrylonitrile | 3.781 | 67 | 2013 | 1.11 | ug/L | # | 68 |
| 45) 1,1,1-trichloroethane | 3.980 | 97 | 5430 | 1.08 | ug/L | | 94 |
| 46) cyclohexane | 4.032 | 84 | 5022 | 1.06 | ug/L | | 89 |
| 47) 1,1-dichloropropene | 4.064 | 75 | 4565 | 1.08 | ug/L | | 97 |
| 48) carbon tetrachloride | 4.077 | 117 | 4600 | 1.05 | ug/L | | 84 |
| 49) isopropyl acetate | 4.141 | 87 | 1112 | 1.16 | ug/L | # | 6 |
| 50) tert amyl alcohol | 4.138 | 55 | 982 | 5.33 | ug/L | # | 26 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226124.D
Acq On : 13 Sep 2022 10:16 pm
Operator : PrashanS
Sample : IC9688-1
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 20 17:36:49 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 53) tert-amyl methyl ether | 4.224 | 73 | 10144 | 1.07 ug/L | 93 |
| 54) 2,2,4-trimethylpentane | 4.234 | 57 | 7523 | 1.00 ug/L | 84 |
| 56) benzene | 4.189 | 78 | 12914 | 1.10 ug/L | 87 |
| 57) heptane | 4.317 | 57 | 1597 | 1.09 ug/L # | 63 |
| 58) 1,2-dichloroethane | 4.202 | 62 | 5301 | 1.25 ug/L | 84 |
| 59) trichloroethene | 4.561 | 95 | 3622 | 1.15 ug/L | 91 |
| 60) ethyl acrylate | 4.564 | 55 | 4885 | 0.96 ug/L | 91 |
| 62) 2-chloroethyl vinyl ether | 5.011 | 63 | 4141 | 6.33 ug/L | 82 |
| 63) methyl methacrylate | 4.709 | 100 | 1073 | 0.91 ug/L # | 55 |
| 64) 1,2-dichloropropane | 4.718 | 63 | 3377 | 1.12 ug/L | 78 |
| 65) methylcyclohexane | 4.718 | 83 | 5267 | 1.08 ug/L | 93 |
| 66) dibromomethane | 4.776 | 93 | 2514 | 1.20 ug/L | 85 |
| 67) bromodichloromethane | 4.866 | 83 | 5123 | 1.18 ug/L | 96 |
| 68) cis-1,3-dichloropropene | 5.136 | 75 | 5135 | 1.01 ug/L | 83 |
| 69) epichlorohydrin | 5.059 | 57 | 937 | 4.25 ug/L | 83 |
| 70) 4-methyl-2-pentanone | 5.209 | 58 | 6369 | 3.80 ug/L # | 77 |
| 74) toluene | 5.360 | 92 | 7851 | 1.09 ug/L | 85 |
| 75) trans-1,3-dichloropropene | 5.485 | 75 | 4385 | 0.98 ug/L # | 63 |
| 76) ethyl methacrylate | 5.495 | 69 | 4145 | 0.90 ug/L | 83 |
| 77) 1,1,2-trichloroethane | 5.627 | 83 | 2780 | 1.13 ug/L | 83 |
| 78) 2-hexanone | 5.749 | 58 | 6771 | 4.25 ug/L | 89 |
| 79) tetrachloroethene | 5.704 | 166 | 3424 | 1.15 ug/L | 84 |
| 80) 1,3-dichloropropane | 5.736 | 76 | 5473 | 1.15 ug/L | 95 |
| 81) butyl acetate | 5.813 | 56 | 2106 | 0.91 ug/L # | 29 |
| 82) dibromochloromethane | 5.887 | 129 | 3626 | 1.10 ug/L | 91 |
| 83) 1,2-dibromoethane | 5.986 | 107 | 3548 | 1.12 ug/L | 98 |
| 84) n-butyl ether | 6.326 | 57 | 10716 | 0.98 ug/L | 97 |
| 85) chlorobenzene | 6.313 | 112 | 8444 | 1.06 ug/L | 95 |
| 86) 1,1,1,2-tetrachloroethane | 6.361 | 131 | 3278 | 1.16 ug/L | 88 |
| 87) ethylbenzene | 6.361 | 91 | 14397 | 1.09 ug/L | 98 |
| 88) m,p-xylene | 6.455 | 106 | 10208 | 1.99 ug/L | 85 |
| 89) o-xylene | 6.724 | 106 | 5456 | 1.05 ug/L | 83 |
| 92) styrene | 6.737 | 104 | 8108 | 0.90 ug/L | 97 |
| 93) bromoform | 6.868 | 173 | 2289 | 0.94 ug/L | 92 |
| 94) isopropylbenzene | 6.958 | 105 | 13442 | 1.02 ug/L | 90 |
| 98) bromobenzene | 7.199 | 156 | 3436 | 1.08 ug/L | 81 |
| 99) 1,1,2,2-tetrachloroethane | 7.154 | 83 | 4442 | 1.10 ug/L | 76 |
| 101) 1,2,3-trichloropropane | 7.212 | 110 | 1594 | 1.30 ug/L | 84 |
| 102) n-propylbenzene | 7.237 | 91 | 15053 | 1.09 ug/L | 99 |
| 103) 2-chlorotoluene | 7.311 | 126 | 2971 | 1.02 ug/L | 89 |
| 105) 1,3,5-trimethylbenzene | 7.353 | 105 | 10164 | 1.07 ug/L | 93 |
| 106) tert-butylbenzene | 7.562 | 119 | 8285 | 1.00 ug/L | 97 |
| 107) 1,2,4-trimethylbenzene | 7.607 | 105 | 9937 | 1.01 ug/L | 83 |
| 108) sec-butylbenzene | 7.706 | 105 | 10990 | 0.93 ug/L | 91 |
| 109) 1,3-dichlorobenzene | 7.802 | 146 | 5190 | 0.95 ug/L | 91 |
| 110) p-isopropyltoluene | 7.799 | 119 | 8255 | 0.82 ug/L | 82 |
| 111) 1,2,3-trimethylbenzene | 7.866 | 105 | 9797 | 1.00 ug/L | 81 |
| 112) 1,4-dichlorobenzene | 7.857 | 146 | 5690 | 1.03 ug/L | 80 |
| 113) 1,2-dichlorobenzene | 8.101 | 146 | 4473 | 0.86 ug/L | 82 |
| 114) n-butylbenzene | 8.069 | 92 | 3561 | 0.80 ug/L | 84 |
| 115) 1,2-dibromo-3-chloropr... | 8.582 | 157 | 985 | 1.00 ug/L | 75 |
| 116) 1,3,5-trichlorobenzene | 8.704 | 180 | 2892 | 0.90 ug/L | 80 |
| 117) 1,2,4-trichlorobenzene | 9.070 | 180 | 2252 | 0.82 ug/L | 77 |
| 118) hexachlorobutadiene | 9.128 | 225 | 1020 | 1.14 ug/L | 76 |
| 119) naphthalene | 9.269 | 128 | 7638 | 0.80 ug/L | 81 |
| 120) 1,2,3-trichlorobenzene | 9.375 | 180 | 2011 | 0.87 ug/L | 81 |
| 121) hexachloroethane | 8.268 | 119 | 1562 | 1.00 ug/L | 80 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226124.D
Acq On : 13 Sep 2022 10:16 pm
Operator : PrashanS
Sample : IC9688-1
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 20 17:36:49 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

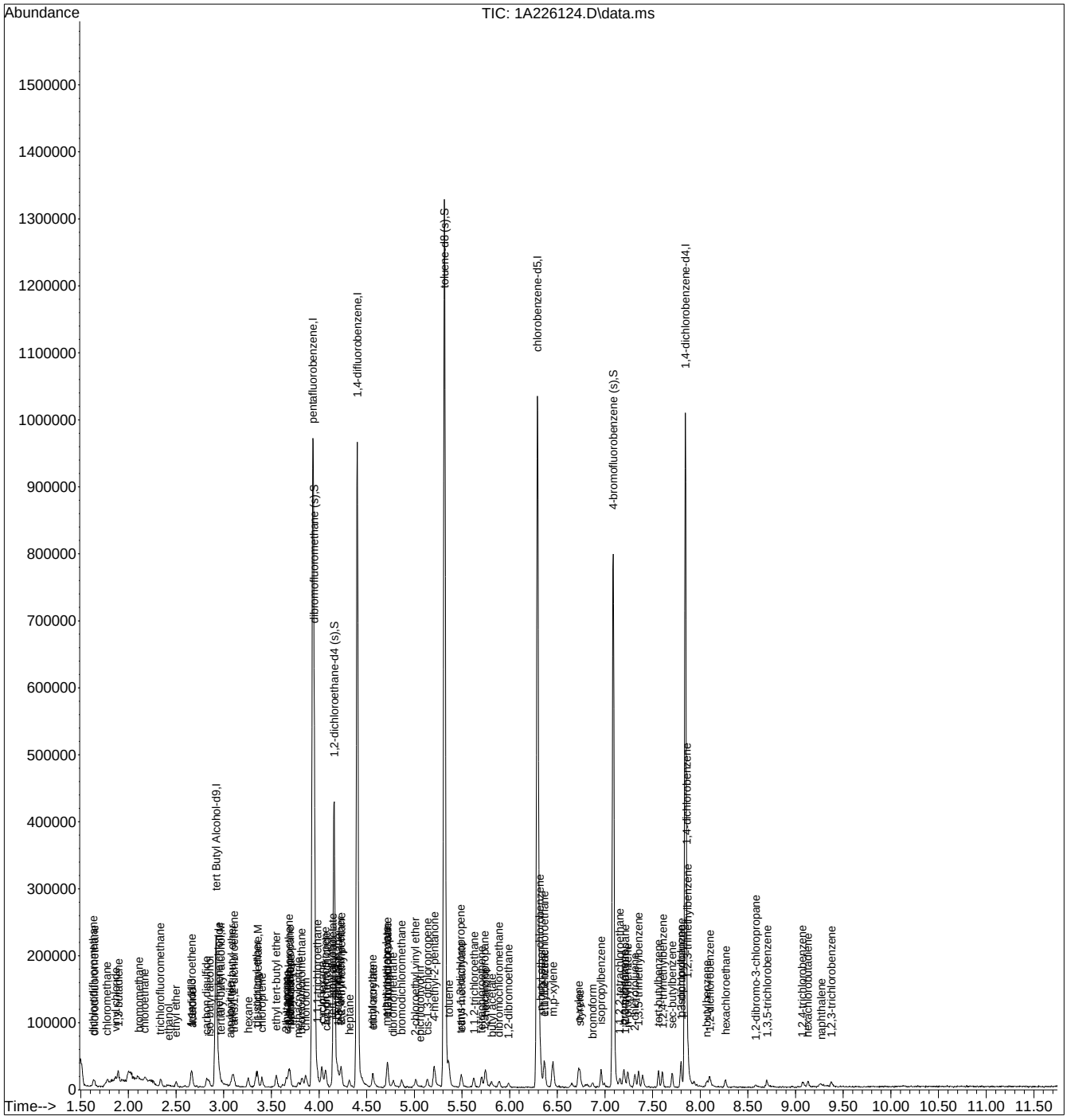
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226124.D
Acq On : 13 Sep 2022 10:16 pm
Operator : PrashanS
Sample : IC9688-1
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 20 17:36:49 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226125.D
Acq On : 13 Sep 2022 10:40 pm
Operator : PrashanS
Sample : IC9688-2
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 20 17:37:26 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.915 | 65 | 204980 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.936 | 168 | 412352 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 594059 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 505491 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 199667 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.949 | 113 | 179625 | 48.42 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.84% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 210946 | 52.33 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 104.66% | | | |
| 73) toluene-d8 (s) | 5.316 | 98 | 696367 | 53.04 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.08% | | | |
| 97) 4-bromofluorobenzene (s) | 7.087 | 95 | 212473 | 51.49 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.98% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) ethanol | 2.418 | 45 | 5176 | 205.40 | ug/L | 84 |
| 4) tertiary butyl alcohol | 2.967 | 59 | 5291 | 11.34 | ug/L | 91 |
| 6) chlorodifluoromethane | 1.645 | 51 | 7229 | 2.05 | ug/L | 97 |
| 7) dichlorodifluoromethane | 1.632 | 85 | 10076 | 1.95 | ug/L | 89 |
| 8) chloromethane | 1.776 | 50 | 8186 | 2.27 | ug/L | 93 |
| 9) vinyl chloride | 1.863 | 62 | 11293 | 2.18 | ug/L | 97 |
| 10) 1,3-butadiene | 1.895 | 54 | 10082 | 2.37 | ug/L | 91 |
| 11) bromomethane | 2.103 | 96 | 3779 | 2.16 | ug/L | 92 |
| 12) chloroethane | 2.171 | 64 | 7607 | 2.35 | ug/L | 94 |
| 13) trichlorofluoromethane | 2.338 | 101 | 13420 | 2.16 | ug/L | 94 |
| 14) ethyl ether | 2.498 | 74 | 3893 | 2.02 | ug/L # | 71 |
| 15) acrolein | 2.591 | 56 | 1099 | 1.51 | ug/L | 90 |
| 16) freon 113 | 2.659 | 151 | 5116 | 2.08 | ug/L | 88 |
| 17) 1,1-dichloroethene | 2.662 | 96 | 6320 | 2.23 | ug/L | 87 |
| 18) acetone | 2.668 | 58 | 2572 | 6.99 | ug/L # | 66 |
| 20) iodomethane | 2.768 | 142 | 1405 | 0.75 | ug/L | 74 |
| 21) iso-butyl alcohol | 2.851 | 43 | 6576 | 20.58 | ug/L | 81 |
| 22) carbon disulfide | 2.822 | 76 | 18870 | 2.38 | ug/L | 96 |
| 23) methylene chloride | 2.947 | 84 | 7225 | 2.26 | ug/L | 85 |
| 24) methyl acetate | 2.841 | 74 | 1679 | 2.04 | ug/L # | 36 |
| 25) methyl tert butyl ether | 3.092 | 73 | 20421 | 2.03 | ug/L | 94 |
| 26) trans-1,2-dichloroethene | 3.108 | 96 | 6271 | 2.06 | ug/L | 89 |
| 27) hexane | 3.259 | 57 | 7701 | 1.90 | ug/L | 94 |
| 28) di-isopropyl ether | 3.345 | 45 | 19856 | 2.10 | ug/L | 94 |
| 29) ethyl tert-butyl ether | 3.551 | 59 | 19195 | 1.96 | ug/L | 93 |
| 30) 2-butanone | 3.653 | 72 | 4448 | 7.57 | ug/L | 99 |
| 31) 1,1-dichloroethane | 3.361 | 63 | 11498 | 2.07 | ug/L | 92 |
| 32) chloroprene | 3.400 | 53 | 9225 | 2.18 | ug/L | 93 |
| 33) acrylonitrile | 3.076 | 53 | 3098 | 1.95 | ug/L # | 63 |
| 34) vinyl acetate | 3.339 | 86 | 1883 | 2.40 | ug/L # | 26 |
| 35) ethyl acetate | 3.666 | 45 | 1398 | 2.14 | ug/L # | 1 |
| 36) 2,2-dichloropropane | 3.689 | 77 | 7526 | 1.89 | ug/L | 97 |
| 37) cis-1,2-dichloroethene | 3.676 | 96 | 7003 | 1.97 | ug/L | 90 |
| 38) propionitrile | 3.695 | 54 | 11723 | 19.04 | ug/L | 75 |
| 39) methyl acrylate | 3.701 | 85 | 1353 | 1.70 | ug/L # | 63 |
| 40) bromochloromethane | 3.817 | 128 | 3827 | 2.18 | ug/L # | 74 |
| 42) chloroform | 3.862 | 83 | 13827 | 2.36 | ug/L | 86 |
| 44) methacrylonitrile | 3.785 | 67 | 3368 | 1.80 | ug/L | 94 |
| 45) 1,1,1-trichloroethane | 3.981 | 97 | 10827 | 2.09 | ug/L | 88 |
| 46) cyclohexane | 4.029 | 84 | 10288 | 2.12 | ug/L | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226125.D
Acq On : 13 Sep 2022 10:40 pm
Operator : PrashanS
Sample : IC9688-2
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 20 17:37:26 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 47) 1,1-dichloropropene | 4.064 | 75 | 9232 | 2.13 | ug/L | | 93 |
| 48) carbon tetrachloride | 4.074 | 117 | 8775 | 1.95 | ug/L | | 96 |
| 49) isopropyl acetate | 4.144 | 87 | 1768 | 1.79 | ug/L | # | 59 |
| 50) tert amyl alcohol | 4.128 | 55 | 1839 | 9.70 | ug/L | # | 16 |
| 53) tert-amyl methyl ether | 4.228 | 73 | 19826 | 2.03 | ug/L | | 89 |
| 54) 2,2,4-trimethylpentane | 4.234 | 57 | 15573 | 2.01 | ug/L | | 95 |
| 56) benzene | 4.186 | 78 | 24239 | 2.01 | ug/L | | 94 |
| 57) heptane | 4.321 | 57 | 2922 | 1.93 | ug/L | # | 80 |
| 58) 1,2-dichloroethane | 4.202 | 62 | 9516 | 2.17 | ug/L | | 98 |
| 59) trichloroethene | 4.561 | 95 | 6409 | 1.97 | ug/L | | 88 |
| 60) ethyl acrylate | 4.565 | 55 | 9347 | 1.79 | ug/L | | 95 |
| 61) 2-nitropropane | 4.995 | 41 | 2940 | 2.09 | ug/L | | 80 |
| 62) 2-chloroethyl vinyl ether | 5.017 | 63 | 7895 | 11.70 | ug/L | | 92 |
| 63) methyl methacrylate | 4.706 | 100 | 1980 | 1.63 | ug/L | # | 84 |
| 64) 1,2-dichloropropane | 4.722 | 63 | 6845 | 2.21 | ug/L | | 91 |
| 65) methylcyclohexane | 4.715 | 83 | 10068 | 2.01 | ug/L | | 87 |
| 66) dibromomethane | 4.780 | 93 | 4544 | 2.10 | ug/L | | 98 |
| 67) bromodichloromethane | 4.873 | 83 | 9160 | 2.04 | ug/L | | 90 |
| 68) cis-1,3-dichloropropene | 5.133 | 75 | 10001 | 1.91 | ug/L | | 91 |
| 69) epichlorohydrin | 5.062 | 57 | 2483 | 10.92 | ug/L | | 72 |
| 70) 4-methyl-2-pentanone | 5.206 | 58 | 12537 | 7.25 | ug/L | # | 84 |
| 71) 3-methyl-1-butanol | 5.216 | 70 | 2539 | 21.51 | ug/L | # | 77 |
| 74) toluene | 5.360 | 92 | 14975 | 2.03 | ug/L | | 95 |
| 75) trans-1,3-dichloropropene | 5.486 | 75 | 7595 | 1.66 | ug/L | | 85 |
| 76) ethyl methacrylate | 5.495 | 69 | 8390 | 1.77 | ug/L | | 88 |
| 77) 1,1,2-trichloroethane | 5.620 | 83 | 5570 | 2.22 | ug/L | | 96 |
| 78) 2-hexanone | 5.752 | 58 | 11505 | 7.05 | ug/L | | 83 |
| 79) tetrachloroethene | 5.704 | 166 | 6620 | 2.16 | ug/L | | 90 |
| 80) 1,3-dichloropropane | 5.739 | 76 | 10327 | 2.12 | ug/L | | 87 |
| 81) butyl acetate | 5.806 | 56 | 4648 | 1.96 | ug/L | # | 77 |
| 82) dibromochloromethane | 5.890 | 129 | 6790 | 2.01 | ug/L | | 92 |
| 83) 1,2-dibromoethane | 5.986 | 107 | 6886 | 2.12 | ug/L | | 99 |
| 84) n-butyl ether | 6.326 | 57 | 22187 | 1.97 | ug/L | | 95 |
| 85) chlorobenzene | 6.313 | 112 | 16400 | 2.01 | ug/L | | 86 |
| 86) 1,1,1,2-tetrachloroethane | 6.362 | 131 | 5698 | 1.96 | ug/L | | 94 |
| 87) ethylbenzene | 6.365 | 91 | 28120 | 2.08 | ug/L | | 89 |
| 88) m,p-xylene | 6.451 | 106 | 20670 | 3.93 | ug/L | | 94 |
| 89) o-xylene | 6.718 | 106 | 10775 | 2.02 | ug/L | | 90 |
| 90) butyl acrylate | 6.647 | 55 | 9082 | 1.41 | ug/L | | 84 |
| 91) n-amyl acetate | 6.798 | 70 | 3634 | 1.41 | ug/L | # | 85 |
| 92) styrene | 6.737 | 104 | 16582 | 1.79 | ug/L | | 92 |
| 93) bromoform | 6.872 | 173 | 4665 | 1.88 | ug/L | | 87 |
| 94) isopropylbenzene | 6.958 | 105 | 26252 | 1.95 | ug/L | | 97 |
| 95) cis-1,4-dichloro-2-butene | 6.994 | 88 | 1976 | 1.47 | ug/L | # | 81 |
| 98) bromobenzene | 7.193 | 156 | 6320 | 1.97 | ug/L | | 85 |
| 99) 1,1,2,2-tetrachloroethane | 7.154 | 83 | 8449 | 2.07 | ug/L | | 70 |
| 101) 1,2,3-trichloropropane | 7.206 | 110 | 2517 | 2.04 | ug/L | | 86 |
| 102) n-propylbenzene | 7.238 | 91 | 28706 | 2.06 | ug/L | | 99 |
| 103) 2-chlorotoluene | 7.308 | 126 | 6339 | 2.16 | ug/L | # | 55 |
| 104) 4-chlorotoluene | 7.395 | 126 | 6377 | 2.14 | ug/L | # | 76 |
| 105) 1,3,5-trimethylbenzene | 7.353 | 105 | 19991 | 2.09 | ug/L | | 90 |
| 106) tert-butylbenzene | 7.562 | 119 | 16629 | 1.99 | ug/L | | 92 |
| 107) 1,2,4-trimethylbenzene | 7.600 | 105 | 19952 | 2.01 | ug/L | | 88 |
| 108) sec-butylbenzene | 7.706 | 105 | 23393 | 1.96 | ug/L | | 94 |
| 109) 1,3-dichlorobenzene | 7.799 | 146 | 9767 | 1.78 | ug/L | | 94 |
| 110) p-isopropyltoluene | 7.796 | 119 | 18589 | 1.84 | ug/L | | 98 |
| 111) 1,2,3-trimethylbenzene | 7.867 | 105 | 19415 | 1.98 | ug/L | | 86 |
| 112) 1,4-dichlorobenzene | 7.857 | 146 | 11534 | 2.07 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226125.D
Acq On : 13 Sep 2022 10:40 pm
Operator : PrashanS
Sample : IC9688-2
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 20 17:37:26 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

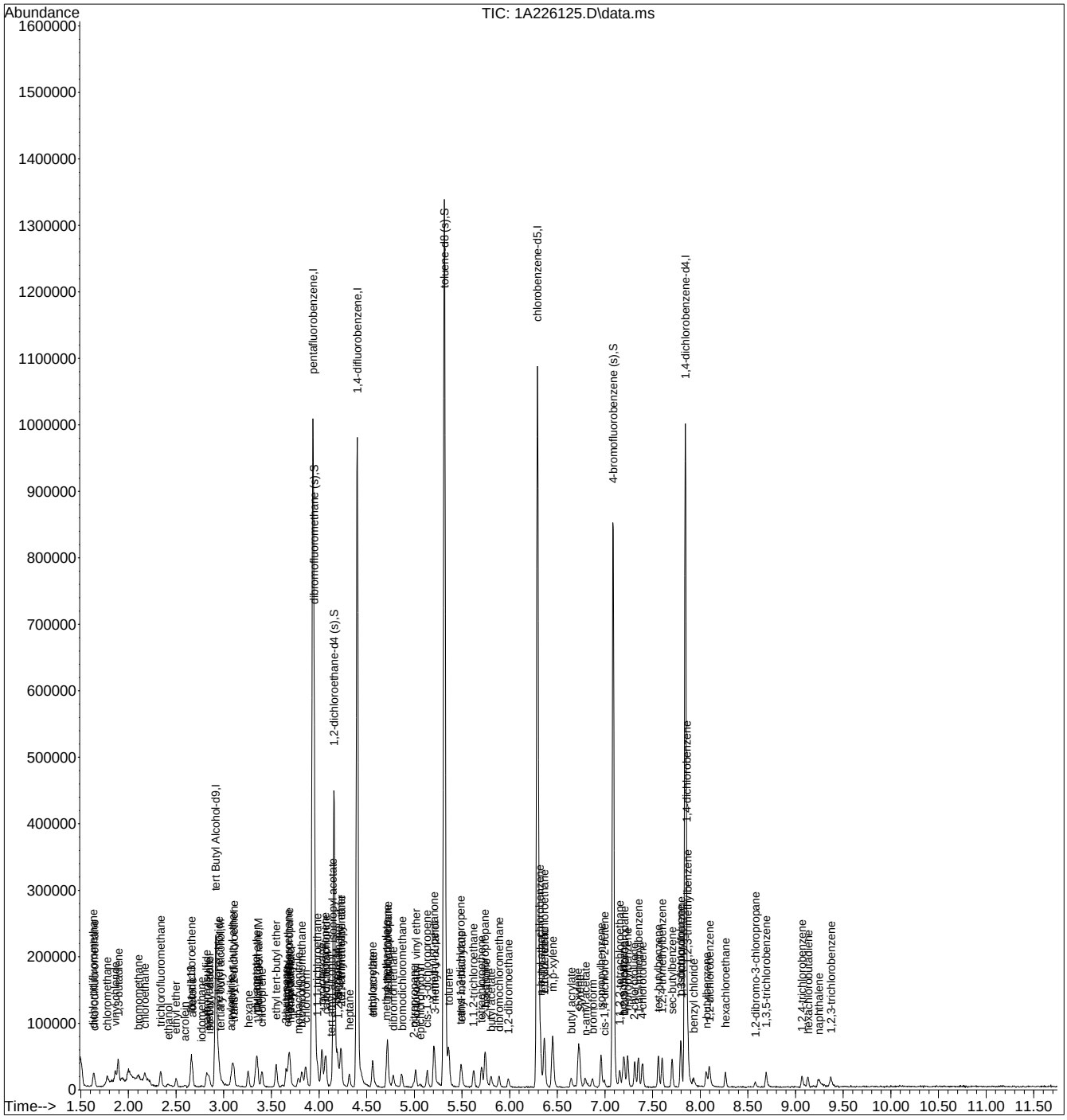
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 113) 1,2-dichlorobenzene | 8.098 | 146 | 9924 | 1.89 | ug/L | 77 |
| 114) n-butylbenzene | 8.066 | 92 | 7435 | 1.65 | ug/L | 91 |
| 115) 1,2-dibromo-3-chloropr... | 8.579 | 157 | 1580 | 1.60 | ug/L # | 69 |
| 116) 1,3,5-trichlorobenzene | 8.691 | 180 | 5438 | 1.69 | ug/L | 99 |
| 117) 1,2,4-trichlorobenzene | 9.067 | 180 | 4500 | 1.62 | ug/L | 89 |
| 118) hexachlorobutadiene | 9.134 | 225 | 1801 | 2.00 | ug/L | 82 |
| 119) naphthalene | 9.243 | 128 | 16773 | 1.74 | ug/L | 91 |
| 120) 1,2,3-trichlorobenzene | 9.372 | 180 | 4055 | 1.75 | ug/L | 91 |
| 121) hexachloroethane | 8.265 | 119 | 2515 | 1.59 | ug/L # | 67 |
| 122) benzyl chloride | 7.931 | 91 | 7627 | 1.39 | ug/L | 90 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226125.D
Acq On : 13 Sep 2022 10:40 pm
Operator : PrashanS
Sample : IC9688-2
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 20 17:37:26 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/21/22 14:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226126.D
Acq On : 13 Sep 2022 11:04 pm
Operator : PrashanS
Sample : IC9688-4
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 21 12:03:26 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.918 | 65 | 216077 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.935 | 168 | 410755 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 591900 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 6.294 | 117 | 513759 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 201613 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 182124 | 49.28 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.56% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 213196 | 53.08 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 106.16% | | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 704624 | 52.80 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 105.60% | | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 215898 | 51.82 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.64% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.754 | 88 | 3378 | 99.05 | ug/L | | 92 |
| 3) ethanol | 2.421 | 45 | 10254 | 386.02 | ug/L | | 94 |
| 4) tertiary butyl alcohol | 2.966 | 59 | 9527 | 19.36 | ug/L | | 97 |
| 6) chlorodifluoromethane | 1.644 | 51 | 13635 | 3.87 | ug/L | | 98 |
| 7) dichlorodifluoromethane | 1.631 | 85 | 19774 | 3.85 | ug/L | | 95 |
| 8) chloromethane | 1.779 | 50 | 14697 | 4.09 | ug/L | | 85 |
| 9) vinyl chloride | 1.862 | 62 | 20991 | 4.06 | ug/L | | 95 |
| 10) 1,3-butadiene | 1.888 | 54 | 19664 | 4.63 | ug/L | | 92 |
| 11) bromomethane | 2.103 | 96 | 5633 | 3.23 | ug/L | | 83 |
| 12) chloroethane | 2.170 | 64 | 14385 | 4.47 | ug/L | | 93 |
| 13) trichlorofluoromethane | 2.337 | 101 | 25071 | 4.04 | ug/L | | 99 |
| 14) ethyl ether | 2.501 | 74 | 8303 | 4.33 | ug/L | | 90 |
| 15) acrolein | 2.594 | 56 | 1983 | 2.74 | ug/L | | 80 |
| 16) freon 113 | 2.652 | 151 | 10096 | 4.11 | ug/L | | 97 |
| 17) 1,1-dichloroethene | 2.661 | 96 | 11094 | 3.94 | ug/L | | 96 |
| 18) acetone | 2.674 | 58 | 6085 | 16.61 | ug/L | # | 64 |
| 19) acetonitrile | 2.835 | 40 | 11466 | 46.54 | ug/L | | 97 |
| 20) iodomethane | 2.764 | 142 | 2977 | 1.60 | ug/L | | 83 |
| 21) iso-butyl alcohol | 2.851 | 43 | 12874 | 40.45 | ug/L | | 95 |
| 22) carbon disulfide | 2.822 | 76 | 34785 | 4.40 | ug/L | | 95 |
| 23) methylene chloride | 2.947 | 84 | 13530 | 4.25 | ug/L | | 92 |
| 24) methyl acetate | 2.848 | 74 | 3323 | 4.06 | ug/L | # | 61 |
| 25) methyl tert butyl ether | 3.088 | 73 | 40179 | 4.02 | ug/L | | 98 |
| 26) trans-1,2-dichloroethene | 3.104 | 96 | 12148 | 4.00 | ug/L | | 98 |
| 27) hexane | 3.255 | 57 | 15869 | 3.94 | ug/L | | 95 |
| 28) di-isopropyl ether | 3.345 | 45 | 36174 | 3.84 | ug/L | | 90 |
| 29) ethyl tert-butyl ether | 3.550 | 59 | 38011 | 3.89 | ug/L | | 97 |
| 30) 2-butanone | 3.650 | 72 | 8137 | 13.90 | ug/L | # | 86 |
| 31) 1,1-dichloroethane | 3.358 | 63 | 21623 | 3.91 | ug/L | | 97 |
| 32) chloroprene | 3.403 | 53 | 17459 | 4.13 | ug/L | | 93 |
| 33) acrylonitrile | 3.072 | 53 | 5813 | 3.67 | ug/L | | 89 |
| 34) vinyl acetate | 3.326 | 86 | 3041 | 3.89 | ug/L | # | 53 |
| 35) ethyl acetate | 3.653 | 45 | 2978 | 4.58 | ug/L | # | 74 |
| 36) 2,2-dichloropropane | 3.691 | 77 | 14541 | 3.66 | ug/L | | 91 |
| 37) cis-1,2-dichloroethene | 3.679 | 96 | 13728 | 3.88 | ug/L | | 96 |
| 38) propionitrile | 3.691 | 54 | 23101 | 37.67 | ug/L | | 94 |
| 39) methyl acrylate | 3.701 | 85 | 3093 | 3.91 | ug/L | # | 64 |
| 40) bromochloromethane | 3.820 | 128 | 6910 | 3.94 | ug/L | | 89 |
| 41) tetrahydrofuran | 3.829 | 72 | 3523 | 5.18 | ug/L | | 89 |
| 42) chloroform | 3.858 | 83 | 25515 | 4.37 | ug/L | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226126.D
Acq On : 13 Sep 2022 11:04 pm
Operator : PrashanS
Sample : IC9688-4
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 21 12:03:26 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) methacrylonitrile | 3.785 | 67 | 7263 | 3.89 | ug/L | | 98 |
| 45) 1,1,1-trichloroethane | 3.980 | 97 | 20142 | 3.91 | ug/L | | 93 |
| 46) cyclohexane | 4.032 | 84 | 18664 | 3.86 | ug/L | | 94 |
| 47) 1,1-dichloropropene | 4.067 | 75 | 17066 | 3.96 | ug/L | | 98 |
| 48) carbon tetrachloride | 4.073 | 117 | 16510 | 3.69 | ug/L | | 96 |
| 49) isopropyl acetate | 4.147 | 87 | 3520 | 3.57 | ug/L | # | 82 |
| 50) tert amyl alcohol | 4.131 | 55 | 3472 | 18.38 | ug/L | # | 73 |
| 53) tert-amyl methyl ether | 4.231 | 73 | 37659 | 3.87 | ug/L | | 94 |
| 54) 2,2,4-trimethylpentane | 4.231 | 57 | 30951 | 4.00 | ug/L | | 94 |
| 55) n-butyl alcohol | 4.439 | 56 | 12105 | 112.40 | ug/L | | 85 |
| 56) benzene | 4.189 | 78 | 48552 | 4.03 | ug/L | | 95 |
| 57) heptane | 4.317 | 57 | 5812 | 3.85 | ug/L | | 85 |
| 58) 1,2-dichloroethane | 4.202 | 62 | 18105 | 4.15 | ug/L | | 98 |
| 59) trichloroethene | 4.564 | 95 | 12888 | 3.98 | ug/L | | 95 |
| 60) ethyl acrylate | 4.564 | 55 | 18493 | 3.55 | ug/L | | 97 |
| 61) 2-nitropropane | 4.988 | 41 | 5488 | 3.91 | ug/L | # | 61 |
| 62) 2-chloroethyl vinyl ether | 5.014 | 63 | 16104 | 23.95 | ug/L | | 93 |
| 63) methyl methacrylate | 4.712 | 100 | 4502 | 3.72 | ug/L | # | 76 |
| 64) 1,2-dichloropropane | 4.722 | 63 | 12337 | 4.00 | ug/L | | 92 |
| 65) methylcyclohexane | 4.718 | 83 | 20097 | 4.02 | ug/L | | 94 |
| 66) dibromomethane | 4.779 | 93 | 8471 | 3.93 | ug/L | | 95 |
| 67) bromodichloromethane | 4.869 | 83 | 18117 | 4.05 | ug/L | | 86 |
| 68) cis-1,3-dichloropropene | 5.135 | 75 | 18796 | 3.61 | ug/L | | 87 |
| 69) epichlorohydrin | 5.062 | 57 | 4488 | 19.82 | ug/L | | 82 |
| 70) 4-methyl-2-pentanone | 5.206 | 58 | 25288 | 14.68 | ug/L | | 98 |
| 71) 3-methyl-1-butanol | 5.219 | 70 | 5452 | 46.35 | ug/L | # | 75 |
| 74) toluene | 5.360 | 92 | 30188 | 4.03 | ug/L | | 90 |
| 75) trans-1,3-dichloropropene | 5.485 | 75 | 16854 | 3.62 | ug/L | | 93 |
| 76) ethyl methacrylate | 5.492 | 69 | 18021 | 3.74 | ug/L | | 91 |
| 77) 1,1,2-trichloroethane | 5.623 | 83 | 10482 | 4.10 | ug/L | | 93 |
| 78) 2-hexanone | 5.745 | 58 | 24116 | 14.54 | ug/L | | 88 |
| 79) tetrachloroethene | 5.707 | 166 | 12032 | 3.87 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 5.736 | 76 | 19924 | 4.02 | ug/L | | 96 |
| 81) butyl acetate | 5.806 | 56 | 8493 | 3.52 | ug/L | | 93 |
| 82) dibromochloromethane | 5.886 | 129 | 13276 | 3.87 | ug/L | | 98 |
| 83) 1,2-dibromoethane | 5.986 | 107 | 12638 | 3.83 | ug/L | | 82 |
| 84) n-butyl ether | 6.323 | 57 | 44887 | 3.92 | ug/L | | 98 |
| 85) chlorobenzene | 6.313 | 112 | 32937 | 3.98 | ug/L | | 90 |
| 86) 1,1,1,2-tetrachloroethane | 6.361 | 131 | 10862 | 3.67 | ug/L | | 94 |
| 87) ethylbenzene | 6.364 | 91 | 55896 | 4.07 | ug/L | | 93 |
| 88) m,p-xylene | 6.448 | 106 | 41208 | 7.70 | ug/L | | 89 |
| 89) o-xylene | 6.721 | 106 | 19488 | 3.60 | ug/L | | 97 |
| 90) butyl acrylate | 6.640 | 55 | 19705 | 3.01 | ug/L | | 98 |
| 91) n-amyl acetate | 6.788 | 70 | 7585 | 2.89 | ug/L | # | 79 |
| 92) styrene | 6.734 | 104 | 34356 | 3.64 | ug/L | | 95 |
| 93) bromoform | 6.868 | 173 | 8651 | 3.42 | ug/L | | 94 |
| 94) isopropylbenzene | 6.958 | 105 | 50446 | 3.68 | ug/L | | 98 |
| 95) cis-1,4-dichloro-2-butene | 6.990 | 88 | 3925 | 2.88 | ug/L | # | 74 |
| 98) bromobenzene | 7.192 | 156 | 13522 | 4.17 | ug/L | | 91 |
| 99) 1,1,2,2-tetrachloroethane | 7.154 | 83 | 17512 | 4.25 | ug/L | | 97 |
| 100) trans-1,4-dichloro-2-b... | 7.180 | 53 | 2994 | 3.31 | ug/L | # | 70 |
| 101) 1,2,3-trichloropropane | 7.205 | 110 | 5200 | 4.18 | ug/L | | 97 |
| 102) n-propylbenzene | 7.237 | 91 | 57647 | 4.10 | ug/L | | 95 |
| 103) 2-chlorotoluene | 7.314 | 126 | 12290 | 4.14 | ug/L | | 98 |
| 104) 4-chlorotoluene | 7.395 | 126 | 12495m | 4.15 | ug/L | | |
| 105) 1,3,5-trimethylbenzene | 7.346 | 105 | 39056 | 4.05 | ug/L | | 98 |
| 106) tert-butylbenzene | 7.565 | 119 | 33679 | 3.98 | ug/L | | 88 |
| 107) 1,2,4-trimethylbenzene | 7.600 | 105 | 38403 | 3.84 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226126.D
Acq On : 13 Sep 2022 11:04 pm
Operator : PrashanS
Sample : IC9688-4
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 21 12:03:26 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

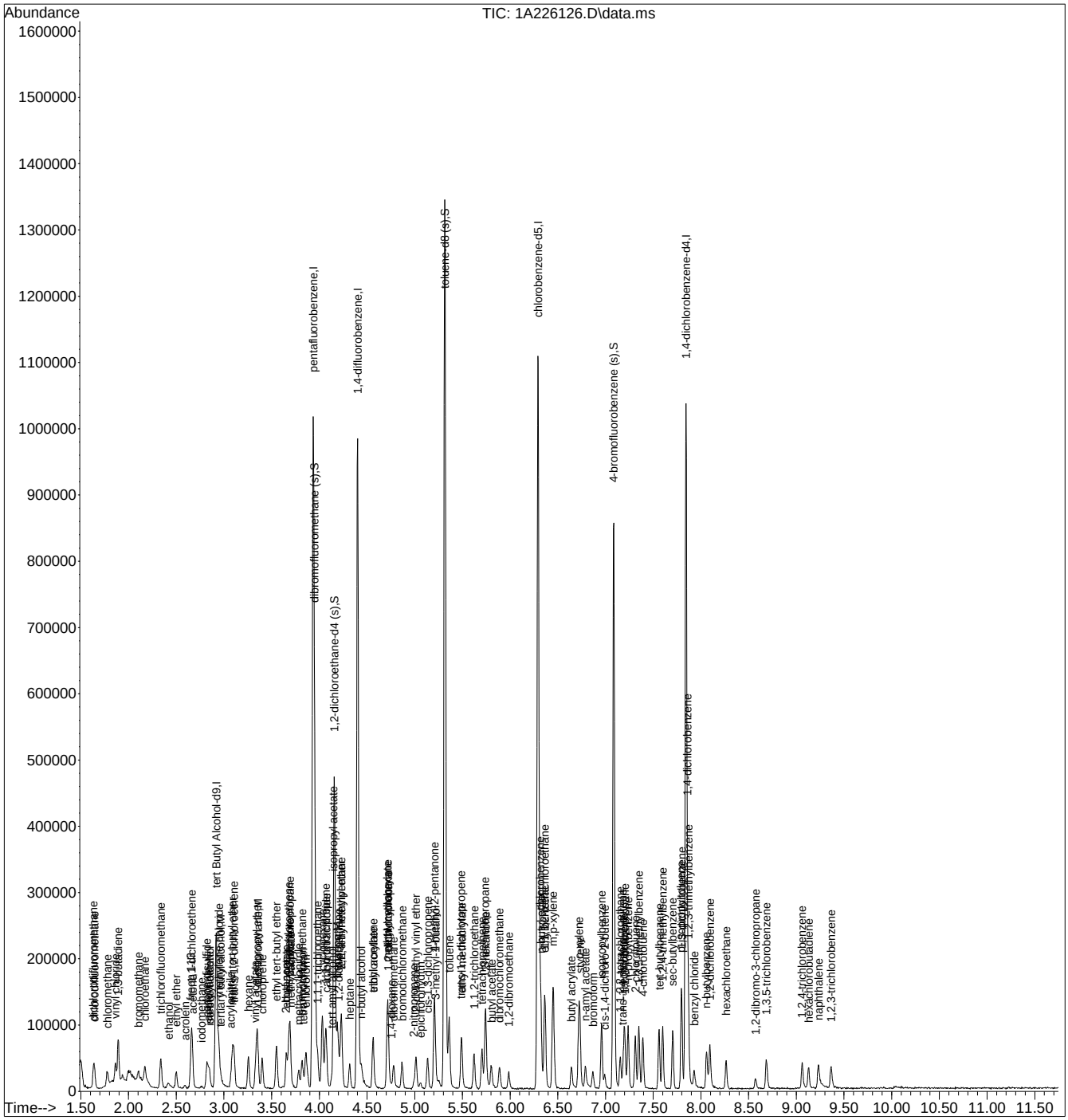
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 108) sec-butylbenzene | 7.703 | 105 | 45772 | 3.80 | ug/L | | 93 |
| 109) 1,3-dichlorobenzene | 7.799 | 146 | 20925 | 3.77 | ug/L | | 92 |
| 110) p-isopropyltoluene | 7.792 | 119 | 37919 | 3.71 | ug/L | | 89 |
| 111) 1,2,3-trimethylbenzene | 7.869 | 105 | 40055 | 4.04 | ug/L | | 90 |
| 112) 1,4-dichlorobenzene | 7.857 | 146 | 22737 | 4.04 | ug/L | | 93 |
| 113) 1,2-dichlorobenzene | 8.094 | 146 | 19312 | 3.64 | ug/L | | 96 |
| 114) n-butylbenzene | 8.056 | 92 | 15797 | 3.47 | ug/L | | 92 |
| 115) 1,2-dibromo-3-chloropr... | 8.575 | 157 | 3365 | 3.36 | ug/L | | 72 |
| 116) 1,3,5-trichlorobenzene | 8.685 | 180 | 11708 | 3.60 | ug/L | | 93 |
| 117) 1,2,4-trichlorobenzene | 9.060 | 180 | 9784 | 3.50 | ug/L | | 89 |
| 118) hexachlorobutadiene | 9.131 | 225 | 3799 | 4.18 | ug/L | | 97 |
| 119) naphthalene | 9.233 | 128 | 33998 | 3.50 | ug/L | | 98 |
| 120) 1,2,3-trichlorobenzene | 9.365 | 180 | 8924 | 3.81 | ug/L | | 96 |
| 121) hexachloroethane | 8.264 | 119 | 5066 | 3.17 | ug/L | # | 80 |
| 122) benzyl chloride | 7.930 | 91 | 15086 | 2.73 | ug/L | | 93 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226126.D
Acq On : 13 Sep 2022 11:04 pm
Operator : PrashanS
Sample : IC9688-4
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 21 12:03:26 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V1A9688-IC9688
**Lab FileID:** 1A226126.D
**Injection Time:** 09/13/22 23:04

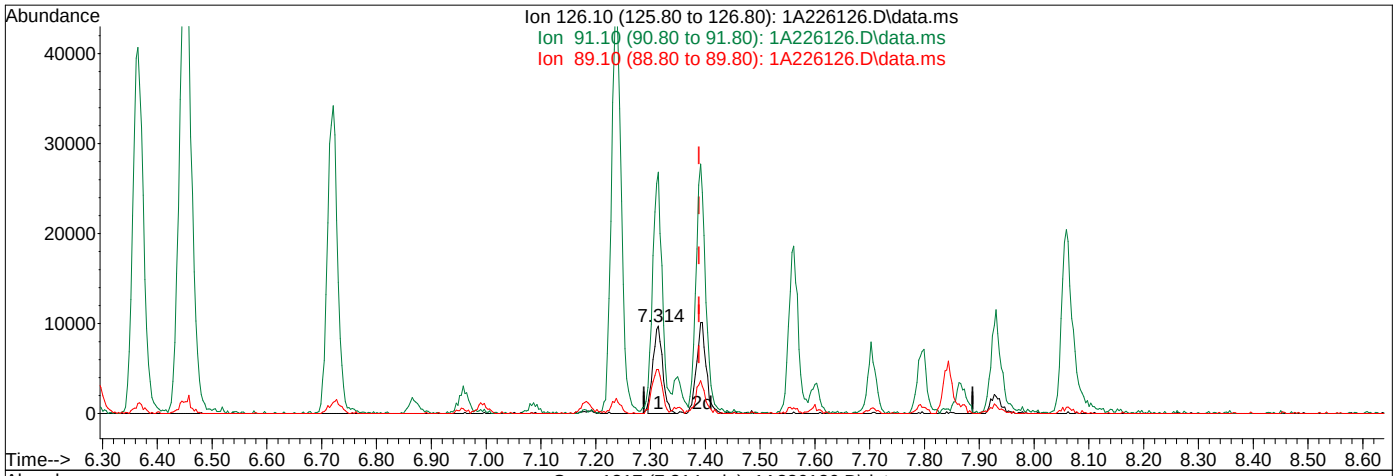
**Method:** SW846 8260D
**Analyst approved:** 09/21/22 12:05 Bridget Kelly
**Supervisor approved:** 09/21/22 14:48 Kanya Veerawat

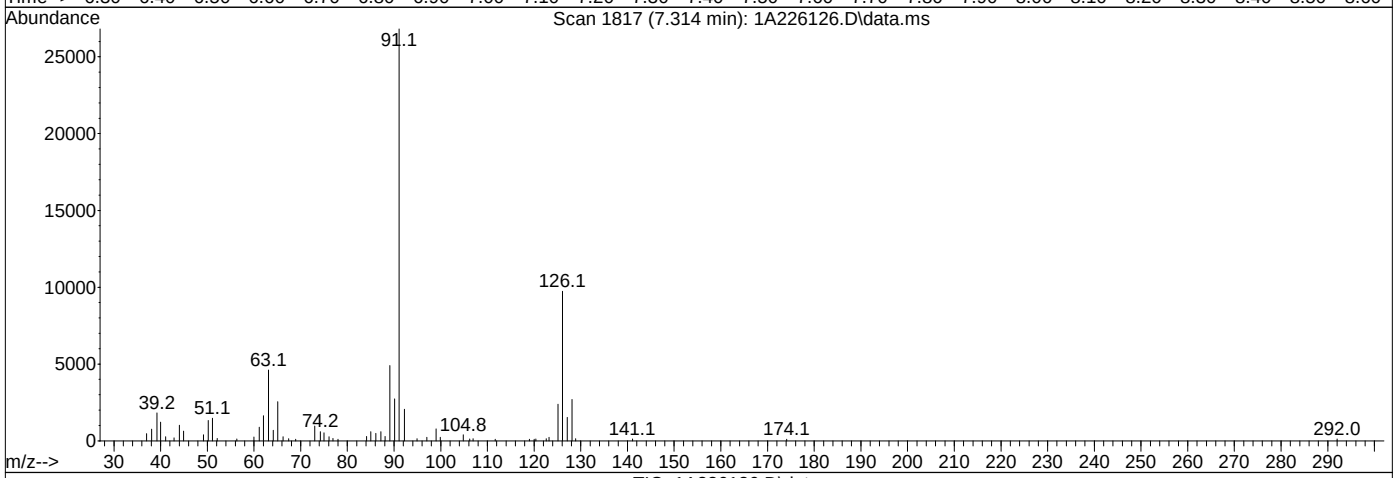
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| p-Chlorotoluene | 106-43-4 | | 7.39 | Missed peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226126.D
Acq On : 13 Sep 2022 11:04 pm
Operator : PrashanS
Sample : IC9688-4
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 20 17:37:56 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration




TIC: 1A226126.D\data.ms

(104) 4-chlorotoluene

7.314min (-0.074) 3.97ug/L

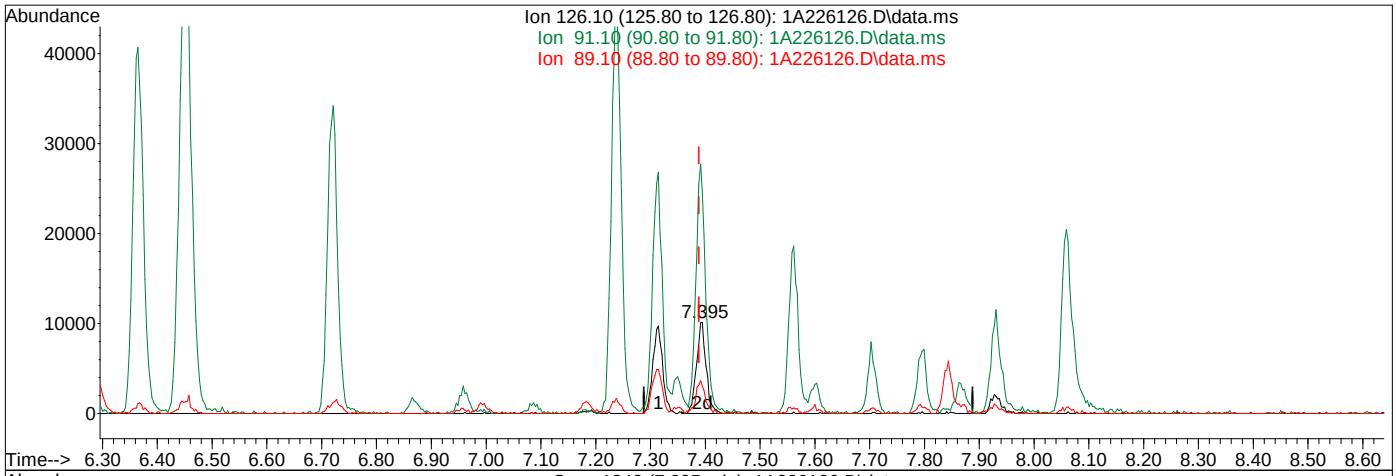
response 11973

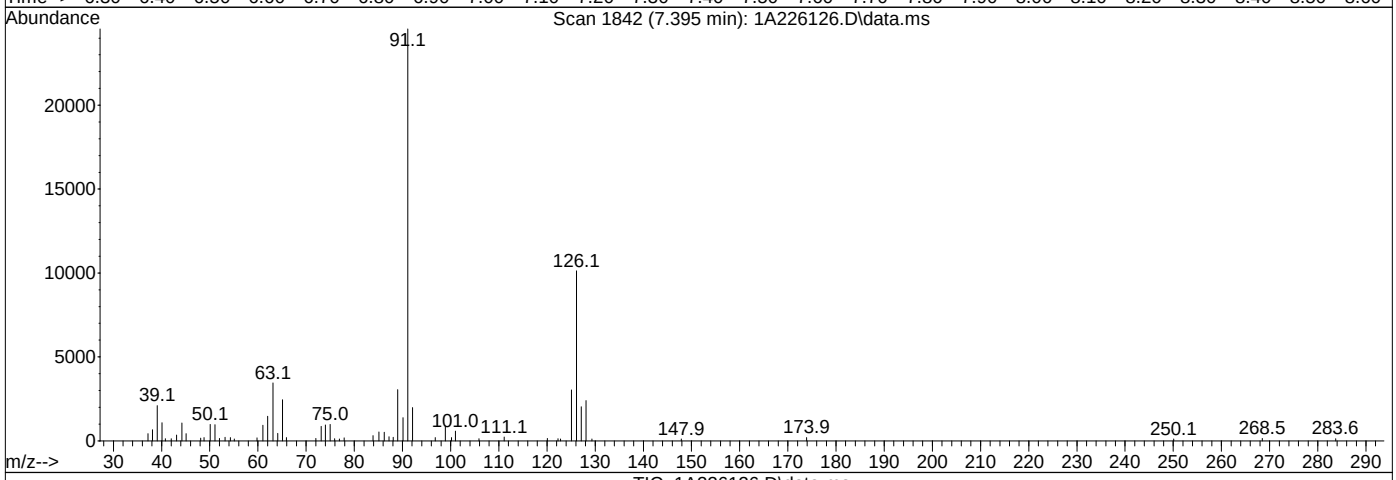
| Ion | Exp% | Act% |
|---|---|---|
| 126.10 | 100 | 100 |
| 91.10 | 274.00 | 245.66 |
| 89.10 | 32.20 | 45.78 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226126.D
Acq On : 13 Sep 2022 11:04 pm
Operator : PrashanS
Sample : IC9688-4
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 20 17:37:56 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration




TIC: 1A226126.D\data.ms

(104) 4-chlorotoluene

7.395min (+0.006) 4.15ug/L m

response 12495

| Ion | Exp% | Act% |
|---|---|---|
| 126.10 | 100 | 100 |
| 91.10 | 274.00 | 242.30# |
| 89.10 | 32.20 | 30.02 |
| 0.00 | 0.00 | 0.00 |

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/21/22 14:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226127.D
Acq On : 13 Sep 2022 11:28 pm
Operator : PrashanS
Sample : IC9688-8
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 20 17:46:38 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.919 | 65 | 237242 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.936 | 168 | 422003 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 622456 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 531621 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 212414 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 3.949 | 113 | 186697 | 49.17 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.34% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 221737 | 52.50 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 105.00% | | | | |
| 73) toluene-d8 (s) | 5.316 | 98 | 727358 | 52.67 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 105.34% | | | | |
| 97) 4-bromofluorobenzene (s) | 7.084 | 95 | 227613 | 51.85 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.70% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.751 | 88 | 6515 | 174.00 | ug/L | | 100 |
| 3) ethanol | 2.418 | 45 | 22810 | 782.10 | ug/L | | 98 |
| 4) tertiary butyl alcohol | 2.967 | 59 | 19608 | 36.30 | ug/L | | 93 |
| 6) chlorodifluoromethane | 1.648 | 51 | 28179 | 7.79 | ug/L | | 95 |
| 7) dichlorodifluoromethane | 1.632 | 85 | 40362 | 7.65 | ug/L | | 97 |
| 8) chloromethane | 1.779 | 50 | 29547 | 8.00 | ug/L | | 98 |
| 9) vinyl chloride | 1.863 | 62 | 41617 | 7.84 | ug/L | | 95 |
| 10) 1,3-butadiene | 1.888 | 54 | 38641 | 8.86 | ug/L | | 96 |
| 11) bromomethane | 2.100 | 96 | 10720 | 5.98 | ug/L | | 95 |
| 12) chloroethane | 2.171 | 64 | 26540 | 8.02 | ug/L | | 93 |
| 13) trichlorofluoromethane | 2.338 | 101 | 50568 | 7.94 | ug/L | | 99 |
| 14) ethyl ether | 2.501 | 74 | 15122 | 7.68 | ug/L | | 94 |
| 15) acrolein | 2.591 | 56 | 4889 | 6.57 | ug/L | | 87 |
| 16) freon 113 | 2.652 | 151 | 20509 | 8.13 | ug/L | # | 82 |
| 17) 1,1-dichloroethene | 2.665 | 96 | 22073 | 7.62 | ug/L | | 95 |
| 18) acetone | 2.668 | 58 | 12526 | 33.27 | ug/L | | 95 |
| 19) acetonitrile | 2.835 | 40 | 21340 | 84.31 | ug/L | | 97 |
| 20) iodomethane | 2.761 | 142 | 6562 | 3.43 | ug/L | | 88 |
| 21) iso-butyl alcohol | 2.845 | 43 | 26206 | 80.14 | ug/L | | 95 |
| 22) carbon disulfide | 2.819 | 76 | 66251 | 8.16 | ug/L | | 97 |
| 23) methylene chloride | 2.944 | 84 | 27551 | 8.43 | ug/L | | 93 |
| 24) methyl acetate | 2.845 | 74 | 6682 | 7.94 | ug/L | # | 81 |
| 25) methyl tert butyl ether | 3.089 | 73 | 80092 | 7.79 | ug/L | | 98 |
| 26) trans-1,2-dichloroethene | 3.105 | 96 | 24001 | 7.70 | ug/L | | 95 |
| 27) hexane | 3.255 | 57 | 32738 | 7.90 | ug/L | | 96 |
| 28) di-isopropyl ether | 3.342 | 45 | 74417 | 7.70 | ug/L | | 88 |
| 29) ethyl tert-butyl ether | 3.551 | 59 | 77083 | 7.68 | ug/L | | 99 |
| 30) 2-butanone | 3.650 | 72 | 17871 | 29.70 | ug/L | # | 83 |
| 31) 1,1-dichloroethane | 3.355 | 63 | 43292 | 7.61 | ug/L | | 99 |
| 32) chloroprene | 3.400 | 53 | 34437 | 7.94 | ug/L | | 97 |
| 33) acrylonitrile | 3.069 | 53 | 12193 | 7.50 | ug/L | | 87 |
| 34) vinyl acetate | 3.326 | 86 | 5501 | 6.85 | ug/L | # | 90 |
| 35) ethyl acetate | 3.653 | 45 | 5015 | 7.51 | ug/L | | 77 |
| 36) 2,2-dichloropropane | 3.685 | 77 | 30579 | 7.49 | ug/L | | 96 |
| 37) cis-1,2-dichloroethene | 3.679 | 96 | 26536 | 7.30 | ug/L | | 98 |
| 38) propionitrile | 3.689 | 54 | 47875 | 75.98 | ug/L | | 97 |
| 39) methyl acrylate | 3.698 | 85 | 5969 | 7.35 | ug/L | # | 64 |
| 40) bromochloromethane | 3.814 | 128 | 13357 | 7.42 | ug/L | | 93 |
| 41) tetrahydrofuran | 3.830 | 72 | 6220 | 8.90 | ug/L | | 92 |
| 42) chloroform | 3.856 | 83 | 48214 | 8.04 | ug/L | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226127.D
Acq On : 13 Sep 2022 11:28 pm
Operator : PrashanS
Sample : IC9688-8
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 20 17:46:38 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) methacrylonitrile | 3.782 | 67 | 13989 | 7.30 | ug/L | | 97 |
| 45) 1,1,1-trichloroethane | 3.981 | 97 | 39974 | 7.55 | ug/L | | 97 |
| 46) cyclohexane | 4.032 | 84 | 37376 | 7.51 | ug/L | | 97 |
| 47) 1,1-dichloropropene | 4.064 | 75 | 33936 | 7.66 | ug/L | | 97 |
| 48) carbon tetrachloride | 4.074 | 117 | 33898 | 7.37 | ug/L | | 93 |
| 49) isopropyl acetate | 4.148 | 87 | 7380 | 7.28 | ug/L | # | 85 |
| 50) tert amyl alcohol | 4.132 | 55 | 7707 | 39.71 | ug/L | # | 77 |
| 53) tert-amyl methyl ether | 4.228 | 73 | 78764 | 7.69 | ug/L | | 97 |
| 54) 2,2,4-trimethylpentane | 4.231 | 57 | 63380 | 7.79 | ug/L | | 98 |
| 55) n-butyl alcohol | 4.440 | 56 | 32754 | 289.20 | ug/L | | 94 |
| 56) benzene | 4.186 | 78 | 95815 | 7.57 | ug/L | | 96 |
| 57) heptane | 4.314 | 57 | 11787 | 7.42 | ug/L | | 97 |
| 58) 1,2-dichloroethane | 4.202 | 62 | 35731 | 7.78 | ug/L | | 97 |
| 59) trichloroethene | 4.565 | 95 | 25410 | 7.47 | ug/L | | 91 |
| 60) ethyl acrylate | 4.565 | 55 | 37390 | 6.82 | ug/L | | 92 |
| 61) 2-nitropropane | 4.992 | 41 | 12065 | 8.18 | ug/L | # | 71 |
| 62) 2-chloroethyl vinyl ether | 5.014 | 63 | 30942 | 43.75 | ug/L | | 100 |
| 63) methyl methacrylate | 4.709 | 100 | 8545 | 6.72 | ug/L | # | 63 |
| 64) 1,2-dichloropropane | 4.719 | 63 | 24483 | 7.54 | ug/L | | 92 |
| 65) methylcyclohexane | 4.716 | 83 | 39624 | 7.54 | ug/L | | 93 |
| 66) dibromomethane | 4.777 | 93 | 17584 | 7.76 | ug/L | | 93 |
| 67) bromodichloromethane | 4.866 | 83 | 34834 | 7.41 | ug/L | | 95 |
| 68) cis-1,3-dichloropropene | 5.133 | 75 | 40475 | 7.40 | ug/L | | 92 |
| 69) epichlorohydrin | 5.062 | 57 | 9160 | 38.46 | ug/L | | 95 |
| 70) 4-methyl-2-pentanone | 5.203 | 58 | 54044 | 29.83 | ug/L | | 99 |
| 71) 3-methyl-1-butanol | 5.210 | 70 | 12591 | 101.78 | ug/L | # | 73 |
| 74) toluene | 5.361 | 92 | 60431 | 7.80 | ug/L | | 93 |
| 75) trans-1,3-dichloropropene | 5.486 | 75 | 34242 | 7.11 | ug/L | | 94 |
| 76) ethyl methacrylate | 5.492 | 69 | 36674 | 7.36 | ug/L | | 96 |
| 77) 1,1,2-trichloroethane | 5.624 | 83 | 20821 | 7.87 | ug/L | | 95 |
| 78) 2-hexanone | 5.742 | 58 | 54405 | 31.70 | ug/L | | 96 |
| 79) tetrachloroethene | 5.704 | 166 | 25815 | 8.02 | ug/L | | 92 |
| 80) 1,3-dichloropropane | 5.736 | 76 | 40537 | 7.90 | ug/L | | 91 |
| 81) butyl acetate | 5.797 | 56 | 18681 | 7.49 | ug/L | | 85 |
| 82) dibromochloromethane | 5.887 | 129 | 27502 | 7.75 | ug/L | | 98 |
| 83) 1,2-dibromoethane | 5.986 | 107 | 27137 | 7.95 | ug/L | | 96 |
| 84) n-butyl ether | 6.323 | 57 | 88966 | 7.51 | ug/L | | 96 |
| 85) chlorobenzene | 6.314 | 112 | 65403 | 7.63 | ug/L | | 92 |
| 86) 1,1,1,2-tetrachloroethane | 6.362 | 131 | 22309 | 7.29 | ug/L | | 98 |
| 87) ethylbenzene | 6.365 | 91 | 111274 | 7.83 | ug/L | | 99 |
| 88) m,p-xylene | 6.452 | 106 | 86716 | 15.67 | ug/L | | 92 |
| 89) o-xylene | 6.718 | 106 | 41182 | 7.36 | ug/L | | 94 |
| 90) butyl acrylate | 6.641 | 55 | 43755 | 6.46 | ug/L | | 91 |
| 91) n-amyl acetate | 6.785 | 70 | 17867 | 6.58 | ug/L | # | 87 |
| 92) styrene | 6.728 | 104 | 69929 | 7.16 | ug/L | | 98 |
| 93) bromoform | 6.869 | 173 | 17644 | 6.74 | ug/L | | 91 |
| 94) isopropylbenzene | 6.959 | 105 | 104537 | 7.38 | ug/L | | 99 |
| 95) cis-1,4-dichloro-2-butene | 6.991 | 88 | 7769 | 5.51 | ug/L | | 89 |
| 98) bromobenzene | 7.196 | 156 | 26170 | 7.66 | ug/L | | 95 |
| 99) 1,1,2,2-tetrachloroethane | 7.154 | 83 | 34647 | 7.99 | ug/L | | 93 |
| 100) trans-1,4-dichloro-2-b... | 7.180 | 53 | 6353m | 6.67 | ug/L | | |
| 101) 1,2,3-trichloropropane | 7.206 | 110 | 11093 | 8.46 | ug/L | | 94 |
| 102) n-propylbenzene | 7.238 | 91 | 118235 | 7.97 | ug/L | | 98 |
| 103) 2-chlorotoluene | 7.308 | 126 | 23114 | 7.40 | ug/L | | 91 |
| 104) 4-chlorotoluene | 7.389 | 126 | 24160 | 7.61 | ug/L | | 94 |
| 105) 1,3,5-trimethylbenzene | 7.350 | 105 | 78453 | 7.72 | ug/L | | 97 |
| 106) tert-butylbenzene | 7.559 | 119 | 68933 | 7.74 | ug/L | | 99 |
| 107) 1,2,4-trimethylbenzene | 7.600 | 105 | 80979 | 7.69 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226127.D
Acq On : 13 Sep 2022 11:28 pm
Operator : PrashanS
Sample : IC9688-8
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 20 17:46:38 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 108) sec-butylbenzene | 7.703 | 105 | 97611 | 7.70 | ug/L | 98 |
| 109) 1,3-dichlorobenzene | 7.799 | 146 | 41441 | 7.09 | ug/L | 94 |
| 110) p-isopropyltoluene | 7.796 | 119 | 78396 | 7.28 | ug/L | 95 |
| 111) 1,2,3-trimethylbenzene | 7.867 | 105 | 81185 | 7.76 | ug/L | 96 |
| 112) 1,4-dichlorobenzene | 7.857 | 146 | 43908 | 7.40 | ug/L | 99 |
| 113) 1,2-dichlorobenzene | 8.091 | 146 | 42348 | 7.57 | ug/L | 95 |
| 114) n-butylbenzene | 8.059 | 92 | 33192 | 6.93 | ug/L | 98 |
| 115) 1,2-dibromo-3-chloropr... | 8.576 | 157 | 7569 | 7.18 | ug/L | 79 |
| 116) 1,3,5-trichlorobenzene | 8.682 | 180 | 24394 | 7.11 | ug/L | 98 |
| 117) 1,2,4-trichlorobenzene | 9.057 | 180 | 20130 | 6.83 | ug/L | 94 |
| 118) hexachlorobutadiene | 9.131 | 225 | 7303 | 7.62 | ug/L | 95 |
| 119) naphthalene | 9.227 | 128 | 71809 | 7.01 | ug/L | 98 |
| 120) 1,2,3-trichlorobenzene | 9.362 | 180 | 18143 | 7.34 | ug/L | 93 |
| 121) hexachloroethane | 8.265 | 119 | 11138 | 6.62 | ug/L | 98 |
| 122) benzyl chloride | 7.928 | 91 | 34762 | 5.97 | ug/L | 96 |
| 123) 2-methylnaphthalene | 10.020 | 142 | 4844 | 2.30 | ug/L | 86 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226127.D
Acq On : 13 Sep 2022 11:28 pm
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Sample : IC9688-8
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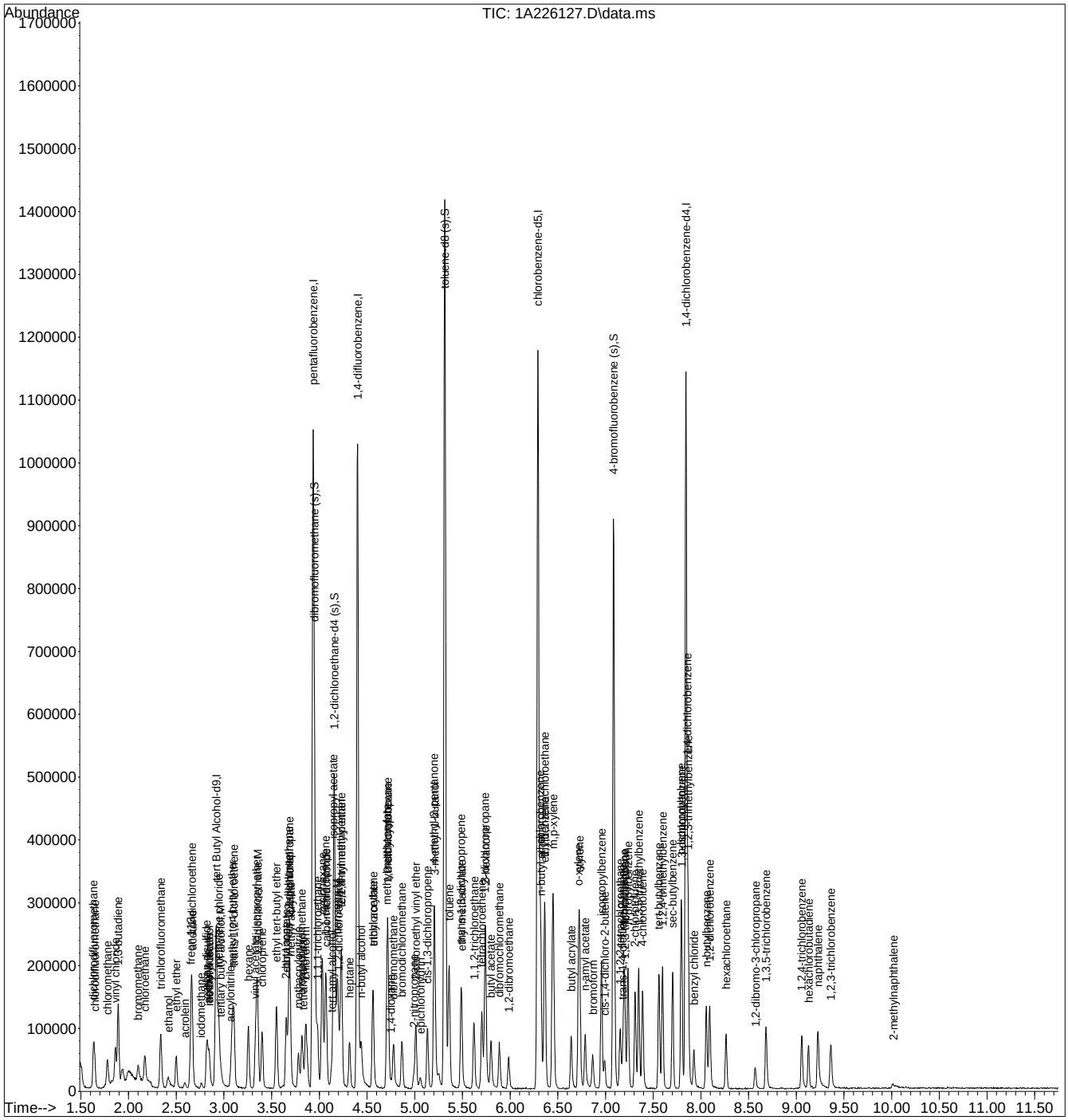
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V1A9688-IC9688
**Lab FileID:** 1A226127.D
**Injection Time:** 09/13/22 23:28

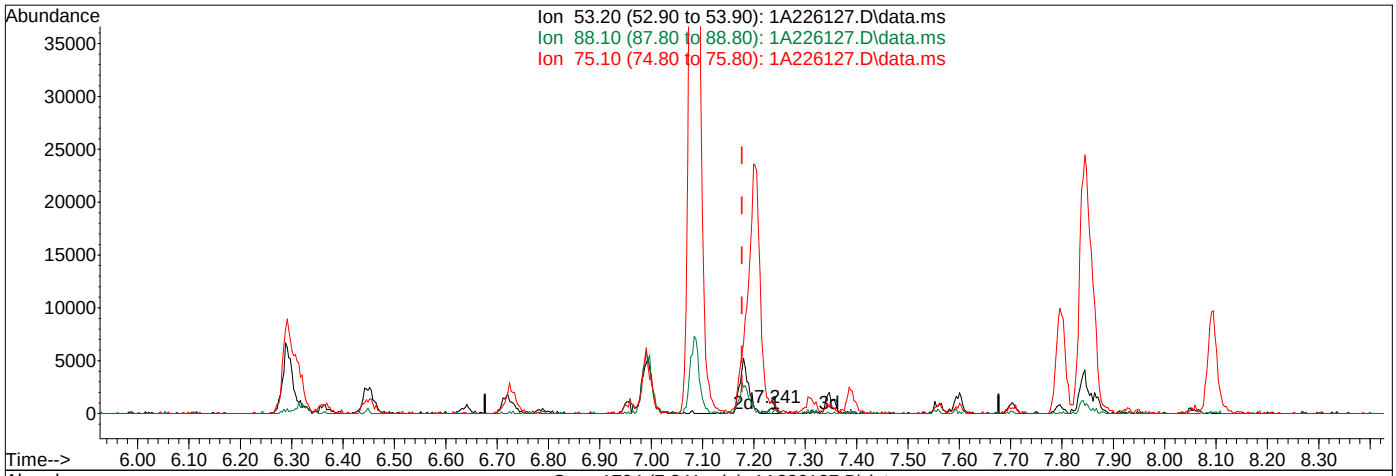
**Method:** SW846 8260D
**Analyst approved:** 09/20/22 17:49 Bridget Kelly
**Supervisor approved:** 09/21/22 14:48 Kanya Veerawat

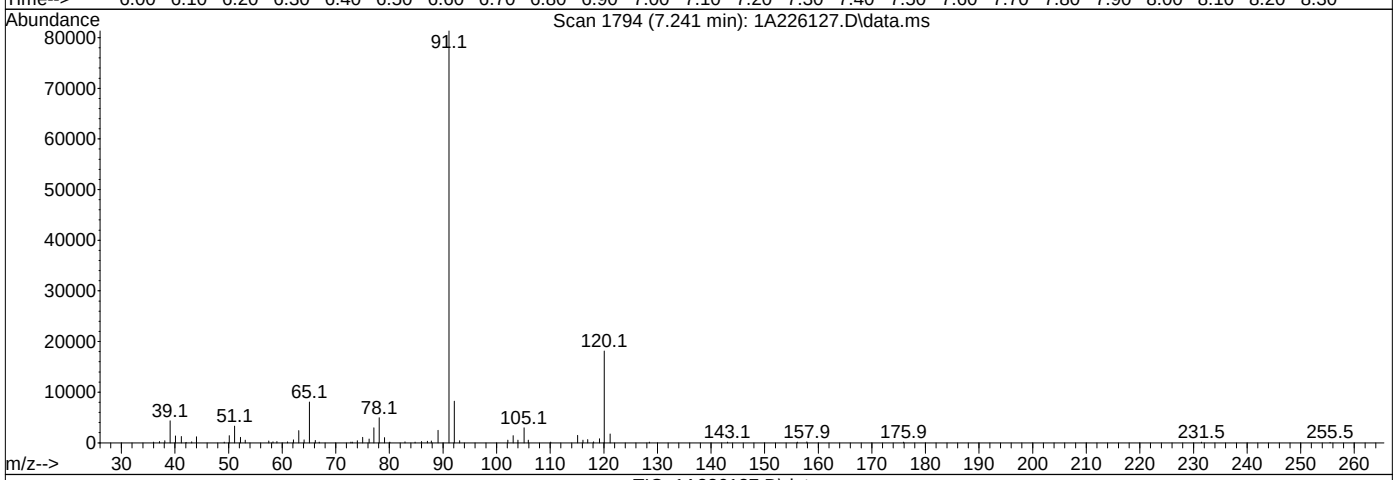
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| trans-1,4-Dichloro-2-Butene | 110-57-6 | | 7.18 | Missed peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226127.D
Acq On : 13 Sep 2022 11:28 pm
Operator : PrashanS
Sample : IC9688-8
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 19 09:50:05 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration




TIC: 1A226127.D\data.ms

(100) trans-1,4-dichloro-2-butene

7.241min (+0.064) 0.71ug/L

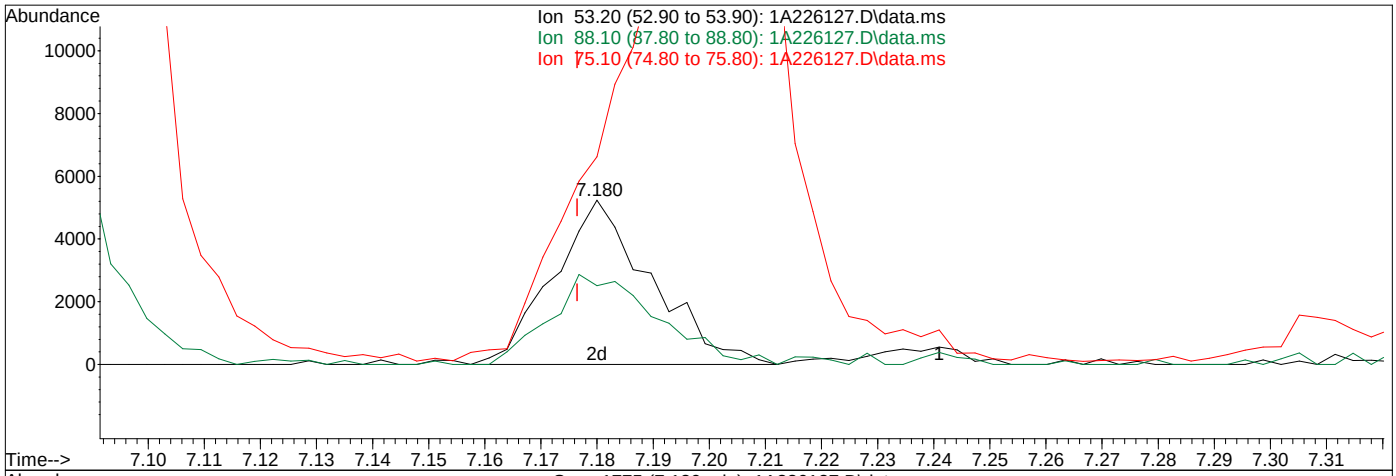
response 673

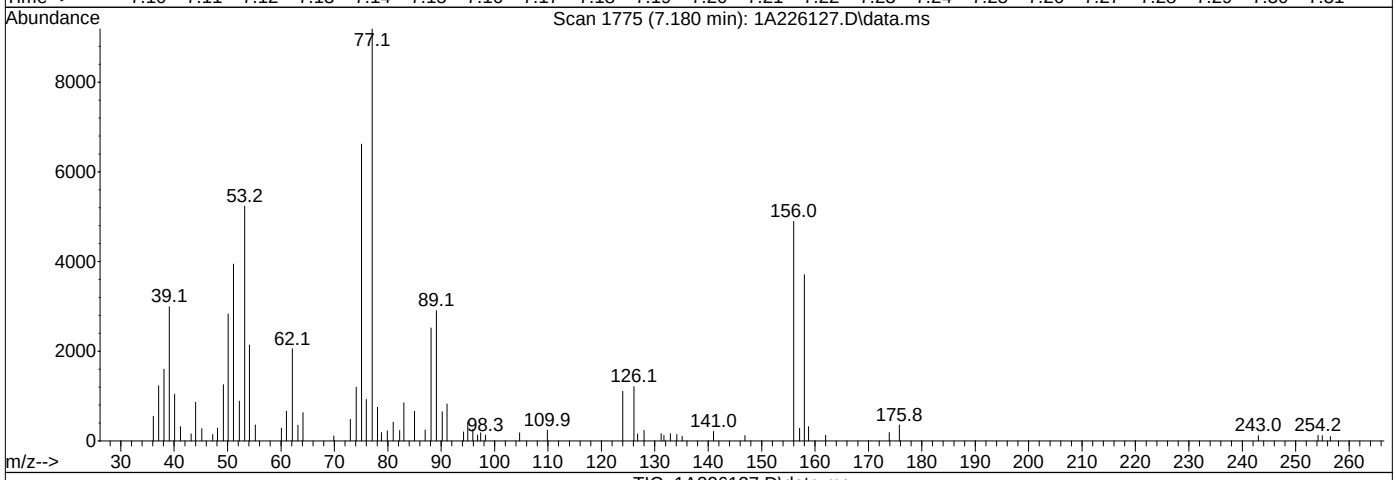
| Ion | Exp% | Act% |
|---|---|---|
| 53.20 | 100 | 100 |
| 88.10 | 60.70 | 70.22 |
| 75.10 | 160.00 | 141.88 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226127.D
Acq On : 13 Sep 2022 11:28 pm
Operator : PrashanS
Sample : IC9688-8
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 19 09:50:05 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration




TIC: 1A226127.D\data.ms

(100) trans-1,4-dichloro-2-butene

7.180min (+0.004) 6.67ug/L m

response 6353

| Ion | Exp% | Act% |
|---|---|---|
| 53.20 | 100 | 100 |
| 88.10 | 60.70 | 48.02 |
| 75.10 | 160.00 | 126.41# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226128.D
Acq On : 13 Sep 2022 11:52 pm
Operator : PrashanS
Sample : IC9688-20
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 19 09:50:09 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.918 | 65 | 232821 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.932 | 168 | 416989 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 620508 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 547341 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 223251 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 184838 | 49.27 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.54% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 215556 | 51.19 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 102.38% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 723607 | 50.90 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.80% | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 233566 | 50.63 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.26% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.750 | 88 | 15757 | 428.82 | ug/L | 100 |
| 3) ethanol | 2.411 | 45 | 57891 | 2022.63 | ug/L | 95 |
| 4) tertiary butyl alcohol | 2.970 | 59 | 50261 | 94.81 | ug/L | 99 |
| 6) chlorodifluoromethane | 1.644 | 51 | 72802 | 20.38 | ug/L | 98 |
| 7) dichlorodifluoromethane | 1.631 | 85 | 99755 | 19.13 | ug/L | 99 |
| 8) chloromethane | 1.776 | 50 | 74235 | 20.34 | ug/L | 100 |
| 9) vinyl chloride | 1.862 | 62 | 103882 | 19.80 | ug/L | 97 |
| 10) 1,3-butadiene | 1.891 | 54 | 95405 | 22.14 | ug/L | 96 |
| 11) bromomethane | 2.100 | 96 | 28714 | 16.21 | ug/L | 96 |
| 12) chloroethane | 2.170 | 64 | 65608 | 20.07 | ug/L | 99 |
| 13) trichlorofluoromethane | 2.337 | 101 | 124889 | 19.84 | ug/L | 98 |
| 14) ethyl ether | 2.498 | 74 | 39530 | 20.30 | ug/L | 97 |
| 15) acrolein | 2.594 | 56 | 14233 | 19.35 | ug/L | 82 |
| 16) freon 113 | 2.658 | 151 | 52690 | 21.14 | ug/L | 88 |
| 17) 1,1-dichloroethene | 2.661 | 96 | 58419 | 20.42 | ug/L | 97 |
| 18) acetone | 2.668 | 58 | 30482 | 81.94 | ug/L | 100 |
| 19) acetonitrile | 2.832 | 40 | 51308 | 205.14 | ug/L | 93 |
| 20) iodomethane | 2.764 | 142 | 24586 | 13.01 | ug/L | 98 |
| 21) iso-butyl alcohol | 2.844 | 43 | 65909 | 203.98 | ug/L | 96 |
| 22) carbon disulfide | 2.819 | 76 | 169422 | 21.13 | ug/L | 98 |
| 23) methylene chloride | 2.947 | 84 | 64517 | 19.98 | ug/L | 97 |
| 24) methyl acetate | 2.848 | 74 | 16795 | 20.21 | ug/L # | 75 |
| 25) methyl tert butyl ether | 3.088 | 73 | 203795 | 20.06 | ug/L | 99 |
| 26) trans-1,2-dichloroethene | 3.104 | 96 | 61977 | 20.11 | ug/L | 99 |
| 27) hexane | 3.255 | 57 | 80647 | 19.71 | ug/L | 97 |
| 28) di-isopropyl ether | 3.345 | 45 | 192543 | 20.16 | ug/L | 98 |
| 29) ethyl tert-butyl ether | 3.550 | 59 | 199150 | 20.09 | ug/L | 98 |
| 30) 2-butanone | 3.653 | 72 | 46683 | 78.53 | ug/L | 97 |
| 31) 1,1-dichloroethane | 3.355 | 63 | 113631 | 20.22 | ug/L | 99 |
| 32) chloroprene | 3.399 | 53 | 89688 | 20.92 | ug/L | 98 |
| 33) acrylonitrile | 3.069 | 53 | 29998 | 18.67 | ug/L | 90 |
| 34) vinyl acetate | 3.326 | 86 | 15701 | 19.80 | ug/L # | 87 |
| 35) ethyl acetate | 3.656 | 45 | 13279 | 20.12 | ug/L | 89 |
| 36) 2,2-dichloropropane | 3.688 | 77 | 80383 | 19.93 | ug/L | 98 |
| 37) cis-1,2-dichloroethene | 3.675 | 96 | 70445 | 19.62 | ug/L | 97 |
| 38) propionitrile | 3.692 | 54 | 123054 | 197.65 | ug/L | 87 |
| 39) methyl acrylate | 3.695 | 85 | 15714 | 19.58 | ug/L | 94 |
| 40) bromochloromethane | 3.817 | 128 | 34908 | 19.63 | ug/L | 94 |
| 41) tetrahydrofuran | 3.829 | 72 | 14802 | 21.43 | ug/L | 83 |
| 42) chloroform | 3.855 | 83 | 120074 | 20.27 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226128.D
Acq On : 13 Sep 2022 11:52 pm
Operator : PrashanS
Sample : IC9688-20
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 19 09:50:09 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) methacrylonitrile | 3.781 | 67 | 36990 | 19.52 | ug/L | | 95 |
| 45) 1,1,1-trichloroethane | 3.980 | 97 | 102147 | 19.54 | ug/L | | 96 |
| 46) cyclohexane | 4.028 | 84 | 95782 | 19.49 | ug/L | | 96 |
| 47) 1,1-dichloropropene | 4.067 | 75 | 87603 | 20.01 | ug/L | | 96 |
| 48) carbon tetrachloride | 4.073 | 117 | 89843 | 19.76 | ug/L | | 98 |
| 49) isopropyl acetate | 4.147 | 87 | 19822 | 19.80 | ug/L | | 97 |
| 50) tert amyl alcohol | 4.128 | 55 | 18959 | 98.85 | ug/L | # | 83 |
| 53) tert-amyl methyl ether | 4.227 | 73 | 202081 | 19.80 | ug/L | | 97 |
| 54) 2,2,4-trimethylpentane | 4.231 | 57 | 159373 | 19.66 | ug/L | | 100 |
| 55) n-butyl alcohol | 4.436 | 56 | 97208 | 861.00 | ug/L | | 96 |
| 56) benzene | 4.186 | 78 | 254249 | 20.15 | ug/L | | 99 |
| 57) heptane | 4.314 | 57 | 30465 | 19.25 | ug/L | | 93 |
| 58) 1,2-dichloroethane | 4.202 | 62 | 91113 | 19.90 | ug/L | | 99 |
| 59) trichloroethene | 4.561 | 95 | 66098 | 19.49 | ug/L | | 97 |
| 60) ethyl acrylate | 4.561 | 55 | 102856 | 18.82 | ug/L | | 100 |
| 61) 2-nitropropane | 4.991 | 41 | 29760 | 20.23 | ug/L | | 95 |
| 62) 2-chloroethyl vinyl ether | 5.010 | 63 | 82986 | 117.72 | ug/L | | 95 |
| 63) methyl methacrylate | 4.712 | 100 | 24025 | 18.95 | ug/L | # | 70 |
| 64) 1,2-dichloropropane | 4.722 | 63 | 65774 | 20.32 | ug/L | | 92 |
| 65) methylcyclohexane | 4.718 | 83 | 104516 | 19.95 | ug/L | | 98 |
| 66) dibromomethane | 4.779 | 93 | 46720 | 20.68 | ug/L | | 94 |
| 67) bromodichloromethane | 4.866 | 83 | 92328 | 19.69 | ug/L | | 96 |
| 68) cis-1,3-dichloropropene | 5.132 | 75 | 105282 | 19.30 | ug/L | | 97 |
| 69) epichlorohydrin | 5.059 | 57 | 24534 | 103.34 | ug/L | | 95 |
| 70) 4-methyl-2-pentanone | 5.203 | 58 | 141492 | 78.35 | ug/L | | 97 |
| 71) 3-methyl-1-butanol | 5.209 | 70 | 43181 | 350.15 | ug/L | | 94 |
| 74) toluene | 5.360 | 92 | 158268 | 19.83 | ug/L | | 98 |
| 75) trans-1,3-dichloropropene | 5.485 | 75 | 96303 | 19.42 | ug/L | | 98 |
| 76) ethyl methacrylate | 5.488 | 69 | 101068 | 19.69 | ug/L | | 97 |
| 77) 1,1,2-trichloroethane | 5.623 | 83 | 53384 | 19.61 | ug/L | | 97 |
| 78) 2-hexanone | 5.739 | 58 | 142468 | 80.62 | ug/L | | 99 |
| 79) tetrachloroethene | 5.703 | 166 | 66591 | 20.09 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 5.736 | 76 | 107732 | 20.38 | ug/L | | 98 |
| 81) butyl acetate | 5.797 | 56 | 50411 | 19.63 | ug/L | | 99 |
| 82) dibromochloromethane | 5.886 | 129 | 72735 | 19.90 | ug/L | | 96 |
| 83) 1,2-dibromoethane | 5.983 | 107 | 70369 | 20.03 | ug/L | | 99 |
| 84) n-butyl ether | 6.323 | 57 | 247234 | 20.28 | ug/L | | 96 |
| 85) chlorobenzene | 6.313 | 112 | 176430 | 20.00 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 6.361 | 131 | 60435 | 19.19 | ug/L | | 96 |
| 87) ethylbenzene | 6.365 | 91 | 296038 | 20.23 | ug/L | | 98 |
| 88) m,p-xylene | 6.448 | 106 | 225381 | 39.55 | ug/L | | 98 |
| 89) o-xylene | 6.718 | 106 | 114467 | 19.86 | ug/L | | 98 |
| 90) butyl acrylate | 6.637 | 55 | 134756 | 19.32 | ug/L | | 98 |
| 91) n-amyl acetate | 6.785 | 70 | 51258 | 18.34 | ug/L | | 98 |
| 92) styrene | 6.727 | 104 | 196681 | 19.56 | ug/L | | 97 |
| 93) bromoform | 6.865 | 173 | 49089 | 18.22 | ug/L | | 98 |
| 94) isopropylbenzene | 6.958 | 105 | 284264 | 19.48 | ug/L | | 99 |
| 95) cis-1,4-dichloro-2-butene | 6.990 | 88 | 23445 | 16.15 | ug/L | | 91 |
| 98) bromobenzene | 7.196 | 156 | 71626 | 19.93 | ug/L | | 97 |
| 99) 1,1,2,2-tetrachloroethane | 7.154 | 83 | 94617 | 20.75 | ug/L | | 97 |
| 100) trans-1,4-dichloro-2-b... | 7.180 | 53 | 18747 | 18.73 | ug/L | | 91 |
| 101) 1,2,3-trichloropropane | 7.202 | 110 | 28185 | 20.44 | ug/L | | 100 |
| 102) n-propylbenzene | 7.234 | 91 | 314727 | 20.19 | ug/L | | 100 |
| 103) 2-chlorotoluene | 7.311 | 126 | 65854 | 20.05 | ug/L | | 99 |
| 104) 4-chlorotoluene | 7.388 | 126 | 66069 | 19.81 | ug/L | | 87 |
| 105) 1,3,5-trimethylbenzene | 7.346 | 105 | 213385 | 19.97 | ug/L | | 99 |
| 106) tert-butylbenzene | 7.561 | 119 | 187574 | 20.03 | ug/L | | 97 |
| 107) 1,2,4-trimethylbenzene | 7.597 | 105 | 219561 | 19.83 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226128.D
Acq On : 13 Sep 2022 11:52 pm
Operator : PrashanS
Sample : IC9688-20
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 19 09:50:09 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

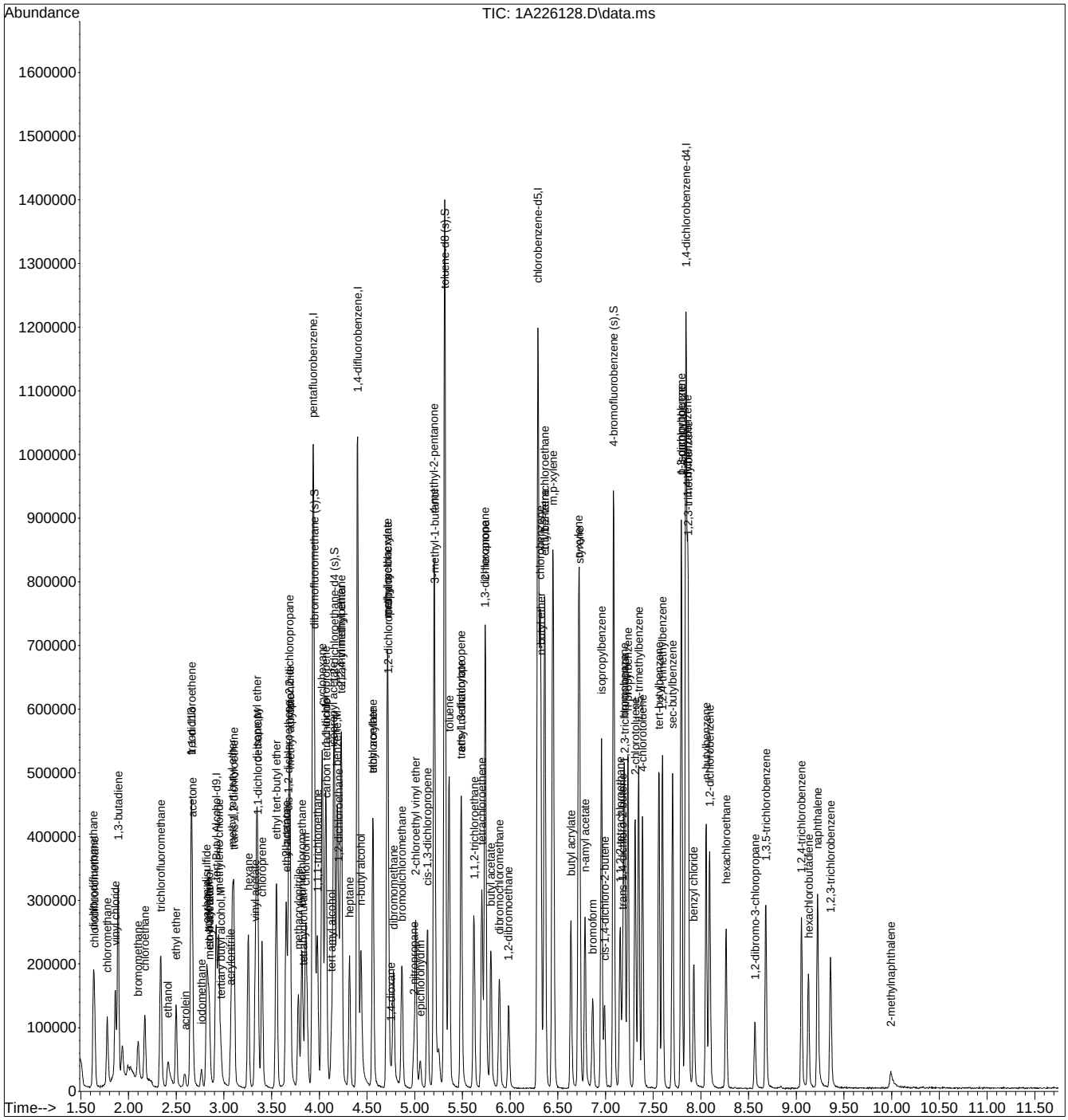
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 108) sec-butylbenzene | 7.703 | 105 | 263796 | 19.79 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.796 | 146 | 119498 | 19.46 | ug/L | 99 |
| 110) p-isopropyltoluene | 7.796 | 119 | 218958 | 19.35 | ug/L | 100 |
| 111) 1,2,3-trimethylbenzene | 7.866 | 105 | 219499 | 19.97 | ug/L | 98 |
| 112) 1,4-dichlorobenzene | 7.857 | 146 | 121338 | 19.46 | ug/L | 98 |
| 113) 1,2-dichlorobenzene | 8.091 | 146 | 114576 | 19.49 | ug/L | 98 |
| 114) n-butylbenzene | 8.056 | 92 | 96184 | 19.11 | ug/L | 98 |
| 115) 1,2-dibromo-3-chloropr... | 8.569 | 157 | 21383 | 19.31 | ug/L | 92 |
| 116) 1,3,5-trichlorobenzene | 8.681 | 180 | 67275 | 18.67 | ug/L | 99 |
| 117) 1,2,4-trichlorobenzene | 9.054 | 180 | 58531 | 18.88 | ug/L | 97 |
| 118) hexachlorobutadiene | 9.131 | 225 | 20831 | 20.68 | ug/L | 97 |
| 119) naphthalene | 9.224 | 128 | 205220 | 19.06 | ug/L | 100 |
| 120) 1,2,3-trichlorobenzene | 9.358 | 180 | 49815 | 19.18 | ug/L | 97 |
| 121) hexachloroethane | 8.264 | 119 | 32893 | 18.61 | ug/L | 99 |
| 122) benzyl chloride | 7.924 | 91 | 106055 | 17.32 | ug/L | 98 |
| 123) 2-methylnaphthalene | 9.991 | 142 | 20956 | 9.47 | ug/L | 94 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226128.D
Acq On : 13 Sep 2022 11:52 pm
Operator : PrashanS
Sample : IC9688-20
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 19 09:50:09 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226129.D
Acq On : 14 Sep 2022 12:16 am
Operator : PrashanS
Sample : ICC9688-50
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 09:50:13 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.918 | 65 | 252141 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.935 | 168 | 447820 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 676309 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 609339 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.841 | 152 | 253615 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 201785 | 50.08 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.16% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 229490 | 50.01 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.02% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 791355 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 262048 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.744 | 88 | 49777 | 1250.85 | ug/L | 100 |
| 3) ethanol | 2.418 | 45 | 154984 | 5000.00 | ug/L | 100 |
| 4) tertiary butyl alcohol | 2.966 | 59 | 143529 | 250.00 | ug/L | 100 |
| 6) chlorodifluoromethane | 1.644 | 51 | 191847 | 50.00 | ug/L | 100 |
| 7) dichlorodifluoromethane | 1.631 | 85 | 280040 | 50.00 | ug/L | 100 |
| 8) chloromethane | 1.776 | 50 | 195998 | 50.00 | ug/L | 100 |
| 9) vinyl chloride | 1.863 | 62 | 281649 | 50.00 | ug/L | 100 |
| 10) 1,3-butadiene | 1.891 | 54 | 231439 | 50.00 | ug/L | 100 |
| 11) bromomethane | 2.097 | 96 | 95132 | 50.00 | ug/L | 100 |
| 12) chloroethane | 2.167 | 64 | 175502 | 50.00 | ug/L | 100 |
| 13) trichlorofluoromethane | 2.337 | 101 | 338025 | 50.00 | ug/L | 100 |
| 14) ethyl ether | 2.501 | 74 | 104540 | 50.00 | ug/L | 100 |
| 15) acrolein | 2.591 | 56 | 39488 | 50.00 | ug/L | 100 |
| 16) freon 113 | 2.652 | 151 | 133840 | 50.00 | ug/L | 100 |
| 17) 1,1-dichloroethene | 2.662 | 96 | 153623 | 50.00 | ug/L | 100 |
| 18) acetone | 2.668 | 58 | 79901 | 200.00 | ug/L | 100 |
| 19) acetonitrile | 2.835 | 40 | 134302 | 500.00 | ug/L | 100 |
| 20) iodomethane | 2.764 | 142 | 101481 | 50.00 | ug/L | 100 |
| 21) iso-butyl alcohol | 2.848 | 43 | 173503 | 500.00 | ug/L | 100 |
| 22) carbon disulfide | 2.819 | 76 | 430543 | 50.00 | ug/L | 100 |
| 23) methylene chloride | 2.947 | 84 | 173349 | 50.00 | ug/L | 100 |
| 24) methyl acetate | 2.844 | 74 | 44628 | 50.00 | ug/L | 100 |
| 25) methyl tert butyl ether | 3.088 | 73 | 545490 | 50.00 | ug/L | 100 |
| 26) trans-1,2-dichloroethene | 3.104 | 96 | 165457 | 50.00 | ug/L | 100 |
| 27) hexane | 3.255 | 57 | 219789 | 50.01 | ug/L | 100 |
| 28) di-isopropyl ether | 3.345 | 45 | 512901 | 50.00 | ug/L | 100 |
| 29) ethyl tert-butyl ether | 3.550 | 59 | 532416 | 50.00 | ug/L | 100 |
| 30) 2-butanone | 3.650 | 72 | 127685 | 200.00 | ug/L | 100 |
| 31) 1,1-dichloroethane | 3.355 | 63 | 301139 | 49.91 | ug/L | 100 |
| 32) chloroprene | 3.400 | 53 | 230226 | 50.00 | ug/L | 100 |
| 33) acrylonitrile | 3.069 | 53 | 86267 | 50.00 | ug/L | 100 |
| 34) vinyl acetate | 3.329 | 86 | 42590 | 50.00 | ug/L | 100 |
| 35) ethyl acetate | 3.653 | 45 | 35487 | 50.06 | ug/L | 100 |
| 36) 2,2-dichloropropane | 3.688 | 77 | 216541 | 50.00 | ug/L | 100 |
| 37) cis-1,2-dichloroethene | 3.679 | 96 | 192767 | 50.00 | ug/L | 100 |
| 38) propionitrile | 3.688 | 54 | 334308 | 500.00 | ug/L | 100 |
| 39) methyl acrylate | 3.692 | 85 | 43092 | 50.00 | ug/L | 100 |
| 40) bromochloromethane | 3.817 | 128 | 95508 | 50.00 | ug/L | 100 |
| 41) tetrahydrofuran | 3.826 | 72 | 37095 | 50.00 | ug/L | 100 |
| 42) chloroform | 3.855 | 83 | 318148 | 50.00 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226129.D
Acq On : 14 Sep 2022 12:16 am
Operator : PrashanS
Sample : ICC9688-50
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 09:50:13 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) methacrylonitrile | 3.781 | 67 | 101734 | 50.00 | ug/L | 100 |
| 45) 1,1,1-trichloroethane | 3.977 | 97 | 280747 | 50.00 | ug/L | 100 |
| 46) cyclohexane | 4.029 | 84 | 263914 | 50.00 | ug/L | 100 |
| 47) 1,1-dichloropropene | 4.064 | 75 | 235111 | 50.00 | ug/L | 100 |
| 48) carbon tetrachloride | 4.073 | 117 | 244105 | 50.00 | ug/L | 100 |
| 49) isopropyl acetate | 4.147 | 87 | 53760 | 50.00 | ug/L | 100 |
| 50) tert amyl alcohol | 4.131 | 55 | 51492 | 250.00 | ug/L | 100 |
| 53) tert-amyl methyl ether | 4.227 | 73 | 556278 | 50.01 | ug/L | 100 |
| 54) 2,2,4-trimethylpentane | 4.231 | 57 | 441856 | 50.00 | ug/L | 100 |
| 55) n-butyl alcohol | 4.436 | 56 | 307680 | 2500.35 | ug/L | 100 |
| 56) benzene | 4.189 | 78 | 687682 | 50.01 | ug/L | 100 |
| 57) heptane | 4.314 | 57 | 86277 | 50.01 | ug/L | 100 |
| 58) 1,2-dichloroethane | 4.202 | 62 | 249562 | 50.01 | ug/L | 100 |
| 59) trichloroethene | 4.561 | 95 | 184855 | 50.01 | ug/L | 100 |
| 60) ethyl acrylate | 4.561 | 55 | 297922 | 50.01 | ug/L | 100 |
| 61) 2-nitropropane | 4.991 | 41 | 80177 | 50.01 | ug/L | 100 |
| 62) 2-chloroethyl vinyl ether | 5.010 | 63 | 192115 | 250.04 | ug/L | 100 |
| 63) methyl methacrylate | 4.706 | 100 | 69096 | 50.01 | ug/L | 100 |
| 64) 1,2-dichloropropane | 4.718 | 63 | 176421 | 50.01 | ug/L | 100 |
| 65) methylcyclohexane | 4.715 | 83 | 285550 | 50.01 | ug/L | 100 |
| 66) dibromomethane | 4.776 | 93 | 123145 | 50.01 | ug/L | 100 |
| 67) bromodichloromethane | 4.866 | 83 | 255547 | 50.01 | ug/L | 100 |
| 68) cis-1,3-dichloropropene | 5.132 | 75 | 297348 | 50.00 | ug/L | 100 |
| 69) epichlorohydrin | 5.062 | 57 | 64697 | 250.04 | ug/L | 100 |
| 70) 4-methyl-2-pentanone | 5.203 | 58 | 393748 | 200.05 | ug/L | 100 |
| 71) 3-methyl-1-butanol | 5.209 | 70 | 134429 | 1000.14 | ug/L | 100 |
| 74) toluene | 5.360 | 92 | 444159 | 50.00 | ug/L | 100 |
| 75) trans-1,3-dichloropropene | 5.485 | 75 | 276008 | 50.00 | ug/L | 100 |
| 76) ethyl methacrylate | 5.489 | 69 | 285688 | 50.00 | ug/L | 100 |
| 77) 1,1,2-trichloroethane | 5.620 | 83 | 151529 | 50.00 | ug/L | 100 |
| 78) 2-hexanone | 5.739 | 58 | 393449 | 200.00 | ug/L | 100 |
| 79) tetrachloroethene | 5.704 | 166 | 184507 | 50.00 | ug/L | 100 |
| 80) 1,3-dichloropropane | 5.736 | 76 | 294214 | 50.00 | ug/L | 100 |
| 81) butyl acetate | 5.797 | 56 | 142639 | 49.90 | ug/L | 100 |
| 82) dibromochloromethane | 5.886 | 129 | 203470 | 50.00 | ug/L | 100 |
| 83) 1,2-dibromoethane | 5.983 | 107 | 195561 | 50.00 | ug/L | 100 |
| 84) n-butyl ether | 6.320 | 57 | 678314 | 49.99 | ug/L | 100 |
| 85) chlorobenzene | 6.313 | 112 | 491117 | 50.00 | ug/L | 100 |
| 86) 1,1,1,2-tetrachloroethane | 6.361 | 131 | 175320 | 50.00 | ug/L | 100 |
| 87) ethylbenzene | 6.365 | 91 | 814697 | 50.00 | ug/L | 100 |
| 88) m,p-xylene | 6.448 | 106 | 634443 | 100.00 | ug/L | 100 |
| 89) o-xylene | 6.718 | 106 | 320869 | 50.00 | ug/L | 100 |
| 90) butyl acrylate | 6.634 | 55 | 388230 | 50.00 | ug/L | 100 |
| 91) n-amyl acetate | 6.785 | 70 | 155589 | 50.00 | ug/L | 100 |
| 92) styrene | 6.727 | 104 | 559618 | 50.00 | ug/L | 100 |
| 93) bromoform | 6.865 | 173 | 149936 | 49.99 | ug/L | 100 |
| 94) isopropylbenzene | 6.958 | 105 | 812241 | 50.00 | ug/L | 100 |
| 95) cis-1,4-dichloro-2-butene | 6.990 | 88 | 80823 | 50.00 | ug/L | 100 |
| 98) bromobenzene | 7.193 | 156 | 204086 | 50.00 | ug/L | 100 |
| 99) 1,1,2,2-tetrachloroethane | 7.151 | 83 | 259001 | 50.00 | ug/L | 100 |
| 100) trans-1,4-dichloro-2-b... | 7.176 | 53 | 56843 | 50.00 | ug/L | 100 |
| 101) 1,2,3-trichloropropane | 7.202 | 110 | 78318 | 50.00 | ug/L | 100 |
| 102) n-propylbenzene | 7.234 | 91 | 885293 | 50.00 | ug/L | 100 |
| 103) 2-chlorotoluene | 7.308 | 126 | 186592 | 50.00 | ug/L | 100 |
| 104) 4-chlorotoluene | 7.388 | 126 | 189483 | 50.00 | ug/L | 100 |
| 105) 1,3,5-trimethylbenzene | 7.347 | 105 | 606847 | 50.00 | ug/L | 100 |
| 106) tert-butylbenzene | 7.558 | 119 | 531848 | 50.00 | ug/L | 100 |
| 107) 1,2,4-trimethylbenzene | 7.597 | 105 | 628968 | 50.00 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226129.D
Acq On : 14 Sep 2022 12:16 am
Operator : PrashanS
Sample : ICC9688-50
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 09:50:13 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

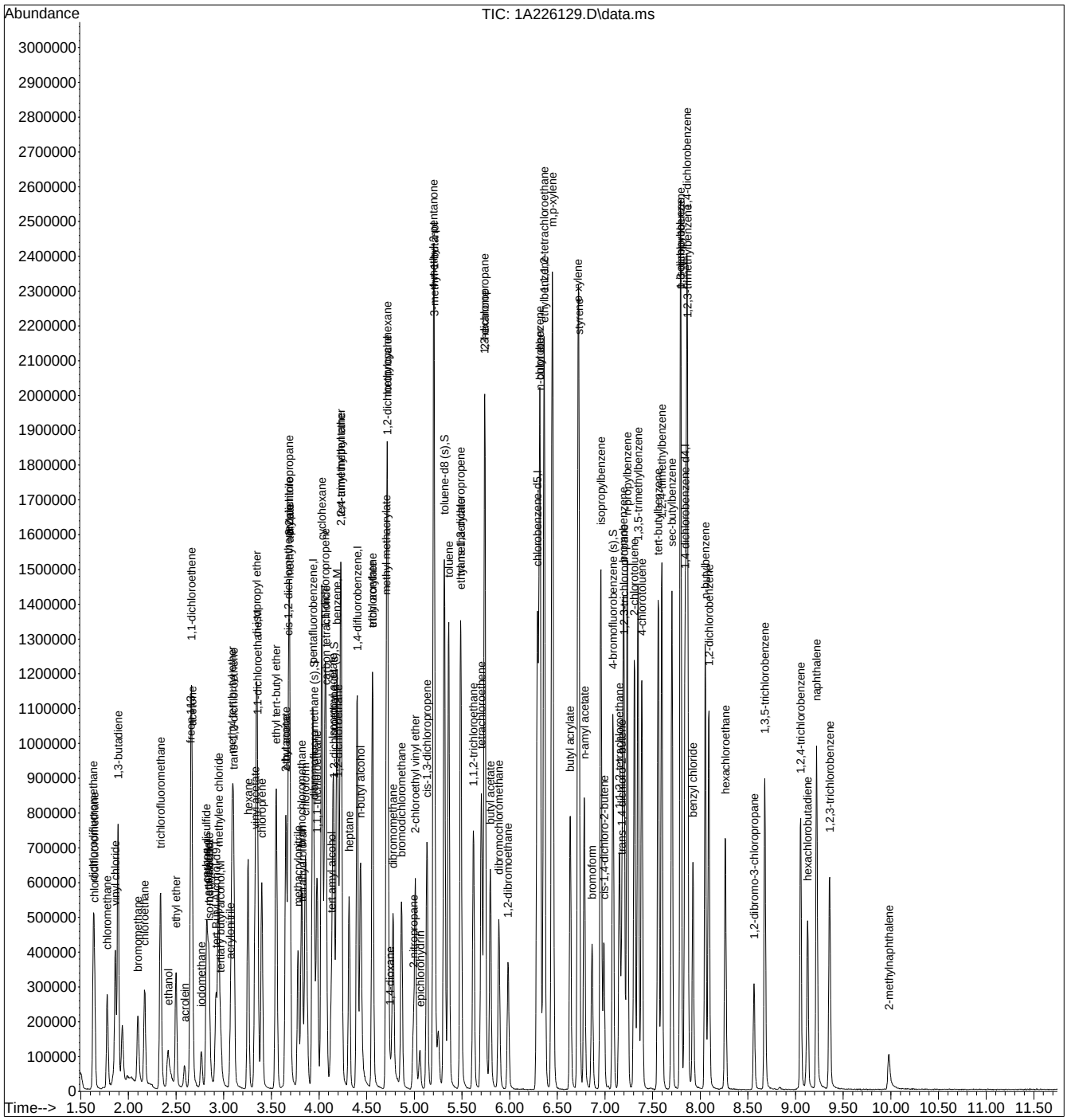
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 108) sec-butylbenzene | 7.703 | 105 | 756971 | 50.00 | ug/L | 100 |
| 109) 1,3-dichlorobenzene | 7.796 | 146 | 348785 | 50.00 | ug/L | 100 |
| 110) p-isopropyltoluene | 7.793 | 119 | 642601 | 50.00 | ug/L | 100 |
| 111) 1,2,3-trimethylbenzene | 7.866 | 105 | 624234 | 50.00 | ug/L | 100 |
| 112) 1,4-dichlorobenzene | 7.860 | 146 | 354064 | 49.99 | ug/L | 100 |
| 113) 1,2-dichlorobenzene | 8.091 | 146 | 333831 | 50.00 | ug/L | 100 |
| 114) n-butylbenzene | 8.053 | 92 | 285942 | 50.00 | ug/L | 100 |
| 115) 1,2-dibromo-3-chloropr... | 8.566 | 157 | 62907 | 50.00 | ug/L | 100 |
| 116) 1,3,5-trichlorobenzene | 8.678 | 180 | 204584 | 49.98 | ug/L | 100 |
| 117) 1,2,4-trichlorobenzene | 9.054 | 180 | 176045 | 50.00 | ug/L | 100 |
| 118) hexachlorobutadiene | 9.124 | 225 | 57218 | 50.00 | ug/L | 100 |
| 119) naphthalene | 9.221 | 128 | 611627 | 50.00 | ug/L | 100 |
| 120) 1,2,3-trichlorobenzene | 9.359 | 180 | 147506 | 50.00 | ug/L | 100 |
| 121) hexachloroethane | 8.264 | 119 | 100404 | 50.00 | ug/L | 100 |
| 122) benzyl chloride | 7.924 | 91 | 347820 | 50.00 | ug/L | 100 |
| 123) 2-methylnaphthalene | 9.981 | 142 | 62831 | 25.00 | ug/L | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226129.D
Acq On : 14 Sep 2022 12:16 am
Operator : PrashanS
Sample : ICC9688-50
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 19 09:50:13 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226130.D
Acq On : 14 Sep 2022 12:40 am
Operator : PrashanS
Sample : IC9688-100
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 19 09:50:17 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.918 | 65 | 251993 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.935 | 168 | 480164 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 713754 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 634427 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 270115 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 206581 | 47.82 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.64% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 229780 | 47.44 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 94.88% | | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 818724 | 49.68 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.36% | | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 271174 | 48.58 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.16% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.747 | 88 | 93910 | 2361.27 | ug/L | | 92 |
| 3) ethanol | 2.418 | 45 | 285198 | 9206.29 | ug/L | | 97 |
| 4) tertiary butyl alcohol | 2.966 | 59 | 281831 | 491.18 | ug/L | | 98 |
| 6) chlorodifluoromethane | 1.644 | 51 | 386337 | 93.91 | ug/L | | 98 |
| 7) dichlorodifluoromethane | 1.631 | 85 | 574368 | 95.64 | ug/L | | 99 |
| 8) chloromethane | 1.776 | 50 | 369776 | 87.98 | ug/L | | 97 |
| 9) vinyl chloride | 1.862 | 62 | 552644 | 91.50 | ug/L | | 98 |
| 10) 1,3-butadiene | 1.888 | 54 | 448911 | 90.45 | ug/L | | 98 |
| 11) bromomethane | 2.097 | 96 | 262856 | 128.85 | ug/L | | 99 |
| 12) chloroethane | 2.167 | 64 | 359581 | 95.54 | ug/L | | 99 |
| 13) trichlorofluoromethane | 2.334 | 101 | 686931 | 94.77 | ug/L | | 99 |
| 14) ethyl ether | 2.498 | 74 | 210816 | 94.04 | ug/L | | 98 |
| 15) acrolein | 2.588 | 56 | 84847 | 100.20 | ug/L | | 89 |
| 16) freon 113 | 2.652 | 151 | 280561 | 97.75 | ug/L | | 96 |
| 17) 1,1-dichloroethene | 2.661 | 96 | 310351 | 94.21 | ug/L | | 98 |
| 18) acetone | 2.668 | 58 | 158449 | 369.90 | ug/L | | 90 |
| 19) acetonitrile | 2.835 | 40 | 269866 | 937.02 | ug/L | | 93 |
| 20) iodomethane | 2.764 | 142 | 294733 | 135.43 | ug/L | | 97 |
| 21) iso-butyl alcohol | 2.844 | 43 | 341282 | 917.26 | ug/L | | 97 |
| 22) carbon disulfide | 2.819 | 76 | 881601 | 95.49 | ug/L | | 100 |
| 23) methylene chloride | 2.944 | 84 | 343624 | 92.44 | ug/L | | 98 |
| 24) methyl acetate | 2.848 | 74 | 88269 | 92.23 | ug/L | # | 87 |
| 25) methyl tert butyl ether | 3.088 | 73 | 1097297 | 93.80 | ug/L | | 98 |
| 26) trans-1,2-dichloroethene | 3.104 | 96 | 338415 | 95.38 | ug/L | | 100 |
| 27) hexane | 3.252 | 57 | 451119 | 95.73 | ug/L | | 99 |
| 28) di-isopropyl ether | 3.345 | 45 | 1026491 | 93.33 | ug/L | | 96 |
| 29) ethyl tert-butyl ether | 3.550 | 59 | 1089798 | 95.45 | ug/L | | 99 |
| 30) 2-butanone | 3.650 | 72 | 253422 | 370.21 | ug/L | | 97 |
| 31) 1,1-dichloroethane | 3.355 | 63 | 600118 | 92.76 | ug/L | | 99 |
| 32) chloroprene | 3.400 | 53 | 472711 | 95.75 | ug/L | | 99 |
| 33) acrylonitrile | 3.069 | 53 | 173197 | 93.62 | ug/L | | 97 |
| 34) vinyl acetate | 3.326 | 86 | 89397 | 97.88 | ug/L | # | 91 |
| 35) ethyl acetate | 3.656 | 45 | 78042 | 102.68 | ug/L | # | 79 |
| 36) 2,2-dichloropropane | 3.688 | 77 | 454962 | 97.98 | ug/L | | 98 |
| 37) cis-1,2-dichloroethene | 3.679 | 96 | 393544 | 95.20 | ug/L | | 99 |
| 38) propionitrile | 3.688 | 54 | 655249 | 913.99 | ug/L | | 92 |
| 39) methyl acrylate | 3.695 | 85 | 87174 | 94.34 | ug/L | # | 92 |
| 40) bromochloromethane | 3.817 | 128 | 192551 | 94.01 | ug/L | | 94 |
| 41) tetrahydrofuran | 3.826 | 72 | 75602 | 95.04 | ug/L | | 90 |
| 42) chloroform | 3.855 | 83 | 647469 | 94.90 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226130.D
Acq On : 14 Sep 2022 12:40 am
Operator : PrashanS
Sample : IC9688-100
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 19 09:50:17 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 44) methacrylonitrile | 3.778 | 67 | 207108 | 94.93 ug/L | 96 |
| 45) 1,1,1-trichloroethane | 3.977 | 97 | 582621 | 96.77 ug/L | 98 |
| 46) cyclohexane | 4.028 | 84 | 550925 | 97.35 ug/L | 99 |
| 47) 1,1-dichloropropene | 4.064 | 75 | 482080 | 95.62 ug/L | 98 |
| 48) carbon tetrachloride | 4.073 | 117 | 509353 | 97.30 ug/L | 96 |
| 49) isopropyl acetate | 4.147 | 87 | 110064 | 95.47 ug/L # | 86 |
| 50) tert amyl alcohol | 4.128 | 55 | 102076 | 462.21 ug/L | 89 |
| 53) tert-amyl methyl ether | 4.227 | 73 | 1133533 | 96.55 ug/L | 100 |
| 54) 2,2,4-trimethylpentane | 4.231 | 57 | 906218 | 97.17 ug/L | 99 |
| 55) n-butyl alcohol | 4.436 | 56 | 637801 | 4911.15 ug/L | 98 |
| 56) benzene | 4.186 | 78 | 1385813 | 95.49 ug/L | 99 |
| 57) heptane | 4.317 | 57 | 186548 | 102.45 ug/L | 98 |
| 58) 1,2-dichloroethane | 4.202 | 62 | 487662 | 92.59 ug/L | 99 |
| 59) trichloroethene | 4.561 | 95 | 382366 | 98.01 ug/L | 95 |
| 60) ethyl acrylate | 4.561 | 55 | 605940 | 96.37 ug/L | 97 |
| 61) 2-nitropropane | 4.991 | 41 | 161739 | 95.59 ug/L | 98 |
| 62) 2-chloroethyl vinyl ether | 5.010 | 63 | 365952 | 451.29 ug/L | 98 |
| 63) methyl methacrylate | 4.706 | 100 | 140845 | 96.59 ug/L | 90 |
| 64) 1,2-dichloropropane | 4.718 | 63 | 354245 | 95.14 ug/L | 99 |
| 65) methylcyclohexane | 4.715 | 83 | 601784 | 99.86 ug/L | 98 |
| 66) dibromomethane | 4.776 | 93 | 252855 | 97.29 ug/L | 95 |
| 67) bromodichloromethane | 4.866 | 83 | 514859 | 95.47 ug/L | 99 |
| 68) cis-1,3-dichloropropene | 5.132 | 75 | 603129 | 96.10 ug/L | 98 |
| 69) epichlorohydrin | 5.059 | 57 | 130619 | 478.32 ug/L | 88 |
| 70) 4-methyl-2-pentanone | 5.203 | 58 | 777982 | 374.53 ug/L | 99 |
| 71) 3-methyl-1-butanol | 5.209 | 70 | 284204 | 2003.53 ug/L | 97 |
| 74) toluene | 5.360 | 92 | 911847 | 98.59 ug/L | 96 |
| 75) trans-1,3-dichloropropene | 5.485 | 75 | 569529 | 99.09 ug/L | 98 |
| 76) ethyl methacrylate | 5.489 | 69 | 579591 | 97.43 ug/L | 98 |
| 77) 1,1,2-trichloroethane | 5.620 | 83 | 302078 | 95.73 ug/L | 99 |
| 78) 2-hexanone | 5.739 | 58 | 775575 | 378.65 ug/L | 97 |
| 79) tetrachloroethene | 5.704 | 166 | 378777 | 98.59 ug/L | 97 |
| 80) 1,3-dichloropropane | 5.736 | 76 | 589125 | 96.16 ug/L | 98 |
| 81) butyl acetate | 5.797 | 56 | 289740 | 97.34 ug/L | 94 |
| 82) dibromochloromethane | 5.886 | 129 | 419628 | 99.04 ug/L | 99 |
| 83) 1,2-dibromoethane | 5.983 | 107 | 396357 | 97.33 ug/L | 98 |
| 84) n-butyl ether | 6.320 | 57 | 1383094 | 97.89 ug/L | 98 |
| 85) chlorobenzene | 6.313 | 112 | 1012463 | 99.00 ug/L | 98 |
| 86) 1,1,1,2-tetrachloroethane | 6.361 | 131 | 360721 | 98.81 ug/L | 98 |
| 87) ethylbenzene | 6.365 | 91 | 1645296 | 96.98 ug/L | 99 |
| 88) m,p-xylene | 6.448 | 106 | 1302218 | 197.14 ug/L | 98 |
| 89) o-xylene | 6.718 | 106 | 663699 | 99.33 ug/L | 97 |
| 90) butyl acrylate | 6.634 | 55 | 804066 | 99.46 ug/L | 96 |
| 91) n-amyl acetate | 6.785 | 70 | 318540 | 98.32 ug/L | 97 |
| 92) styrene | 6.727 | 104 | 1132126 | 97.15 ug/L | 98 |
| 93) bromoform | 6.865 | 173 | 317045 | 101.53 ug/L | 98 |
| 94) isopropylbenzene | 6.955 | 105 | 1673942 | 98.97 ug/L | 99 |
| 95) cis-1,4-dichloro-2-butene | 6.990 | 88 | 166636 | 99.01 ug/L | 97 |
| 98) bromobenzene | 7.192 | 156 | 420568 | 96.74 ug/L | 95 |
| 99) 1,1,2,2-tetrachloroethane | 7.154 | 83 | 519393 | 94.14 ug/L | 95 |
| 100) trans-1,4-dichloro-2-b... | 7.176 | 53 | 119771 | 98.92 ug/L | 97 |
| 101) 1,2,3-trichloropropane | 7.202 | 110 | 156863 | 94.03 ug/L | 99 |
| 102) n-propylbenzene | 7.234 | 91 | 1802101 | 95.56 ug/L | 100 |
| 103) 2-chlorotoluene | 7.311 | 126 | 383749 | 96.55 ug/L | 98 |
| 104) 4-chlorotoluene | 7.388 | 126 | 394596 | 97.76 ug/L | 95 |
| 105) 1,3,5-trimethylbenzene | 7.346 | 105 | 1235889 | 95.61 ug/L | 100 |
| 106) tert-butylbenzene | 7.558 | 119 | 1133509 | 100.05 ug/L | 98 |
| 107) 1,2,4-trimethylbenzene | 7.597 | 105 | 1255668 | 93.72 ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226130.D
Acq On : 14 Sep 2022 12:40 am
Operator : PrashanS
Sample : IC9688-100
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 19 09:50:17 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

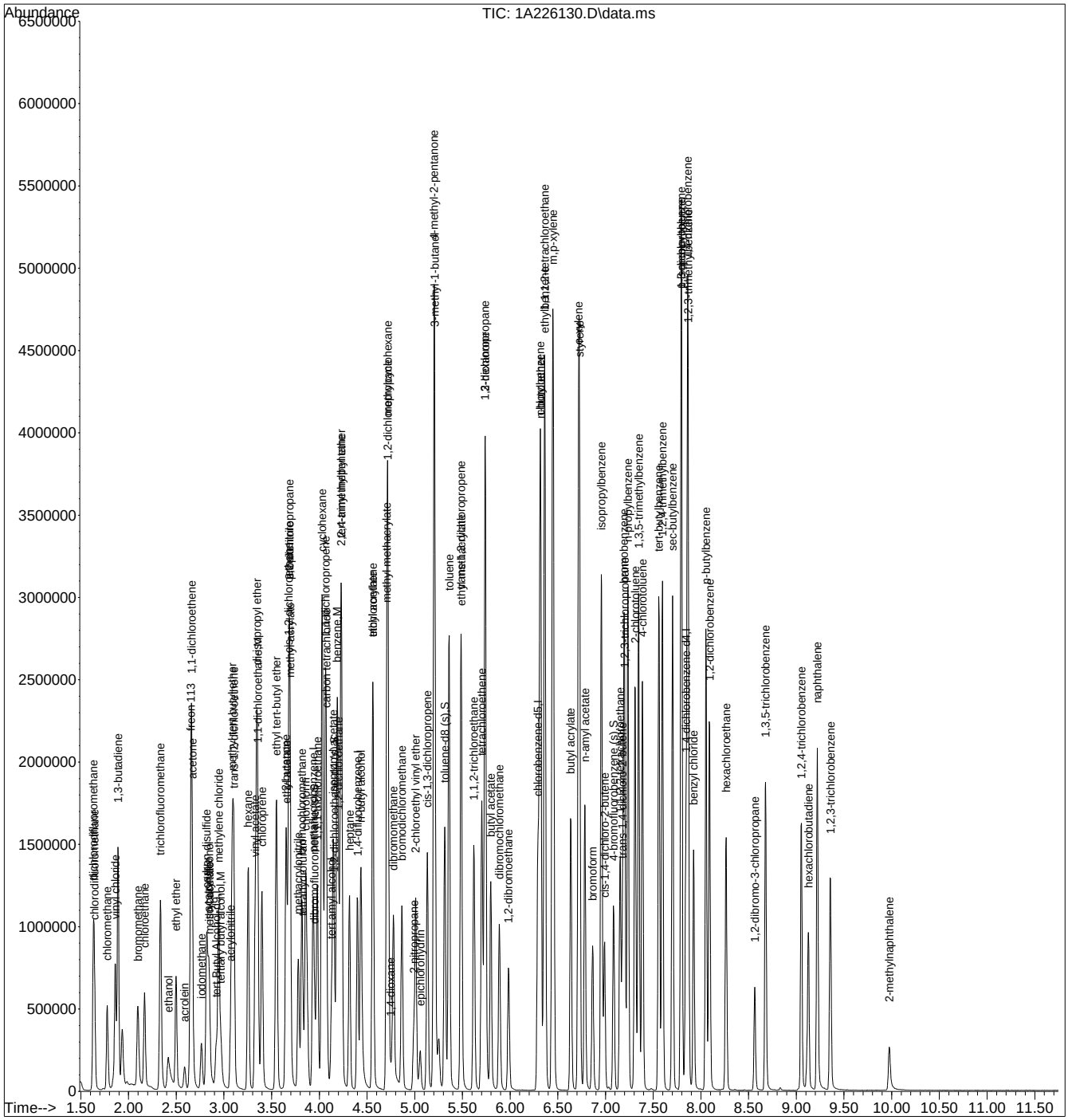
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 108) sec-butylbenzene | 7.703 | 105 | 1578709 | 97.91 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.796 | 146 | 740073 | 99.61 | ug/L | 98 |
| 110) p-isopropyltoluene | 7.796 | 119 | 1343962 | 98.18 | ug/L | 99 |
| 111) 1,2,3-trimethylbenzene | 7.866 | 105 | 1254250 | 94.33 | ug/L | 99 |
| 112) 1,4-dichlorobenzene | 7.860 | 146 | 738345 | 97.89 | ug/L | 99 |
| 113) 1,2-dichlorobenzene | 8.091 | 146 | 693950 | 97.59 | ug/L | 99 |
| 114) n-butylbenzene | 8.052 | 92 | 606896 | 99.64 | ug/L | 98 |
| 115) 1,2-dibromo-3-chloropr... | 8.566 | 157 | 131688 | 98.28 | ug/L | 93 |
| 116) 1,3,5-trichlorobenzene | 8.678 | 180 | 432022 | 99.09 | ug/L | 99 |
| 117) 1,2,4-trichlorobenzene | 9.054 | 180 | 371837 | 99.16 | ug/L | 96 |
| 118) hexachlorobutadiene | 9.127 | 225 | 120520 | 98.88 | ug/L | 97 |
| 119) naphthalene | 9.220 | 128 | 1266679 | 97.22 | ug/L | 99 |
| 120) 1,2,3-trichlorobenzene | 9.358 | 180 | 308622 | 98.22 | ug/L | 97 |
| 121) hexachloroethane | 8.264 | 119 | 218971 | 102.38 | ug/L | 98 |
| 122) benzyl chloride | 7.924 | 91 | 753713 | 101.73 | ug/L | 97 |
| 123) 2-methylnaphthalene | 9.975 | 142 | 142697 | 53.31 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226130.D
Acq On : 14 Sep 2022 12:40 am
Operator : PrashanS
Sample : IC9688-100
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 19 09:50:17 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226131.D
Acq On : 14 Sep 2022 1:04 am
Operator : PrashanS
Sample : IC9688-200
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 20 17:38:06 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.918 | 65 | 250954 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.932 | 168 | 518214 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 743933 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 677622 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 280301 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 221037 | 47.41 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.82% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 234979 | 46.55 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 93.10% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 857104 | 48.70 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.40% | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 276517 | 47.74 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.48% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.751 | 88 | 180179 | 4549.16 | ug/L | 92 |
| 3) ethanol | 2.421 | 45 | 537640 | 17427.06 | ug/L | 95 |
| 4) tertiary butyl alcohol | 2.966 | 59 | 549761 | 962.11 | ug/L | 98 |
| 6) chlorodifluoromethane | 1.644 | 51 | 754341 | 169.89 | ug/L | 98 |
| 7) dichlorodifluoromethane | 1.631 | 85 | 1168041 | 180.22 | ug/L | 98 |
| 8) chloromethane | 1.776 | 50 | 717287 | 158.13 | ug/L | 99 |
| 9) vinyl chloride | 1.859 | 62 | 1083690 | 166.25 | ug/L | 99 |
| 10) 1,3-butadiene | 1.888 | 54 | 855934 | 159.80 | ug/L | 98 |
| 12) chloroethane | 2.164 | 64 | 742316 | 182.76 | ug/L | 99 |
| 13) trichlorofluoromethane | 2.334 | 101 | 1405508 | 179.66 | ug/L | 97 |
| 14) ethyl ether | 2.498 | 74 | 441257 | 182.38 | ug/L | 97 |
| 15) acrolein | 2.591 | 56 | 176061 | 192.65 | ug/L | 98 |
| 16) freon 113 | 2.652 | 151 | 592555 | 191.30 | ug/L | 95 |
| 17) 1,1-dichloroethene | 2.662 | 96 | 639947 | 179.99 | ug/L | 96 |
| 18) acetone | 2.671 | 58 | 310748 | 672.17 | ug/L | 98 |
| 19) acetonitrile | 2.838 | 40 | 512639 | 1649.28 | ug/L | 96 |
| 20) iodomethane | 2.764 | 142 | 714509 | 304.22 | ug/L | 95 |
| 21) iso-butyl alcohol | 2.844 | 43 | 687766 | 1712.77 | ug/L | 96 |
| 22) carbon disulfide | 2.816 | 76 | 1822936 | 182.94 | ug/L | 98 |
| 23) methylene chloride | 2.944 | 84 | 707966 | 176.46 | ug/L | 100 |
| 24) methyl acetate | 2.844 | 74 | 174923 | 169.36 | ug/L | 89 |
| 25) methyl tert butyl ether | 3.088 | 73 | 2280275 | 180.62 | ug/L | 100 |
| 26) trans-1,2-dichloroethene | 3.104 | 96 | 701330 | 183.15 | ug/L | 97 |
| 27) hexane | 3.252 | 57 | 924562 | 181.78 | ug/L | 99 |
| 28) di-isopropyl ether | 3.345 | 45 | 2081405 | 175.34 | ug/L | 97 |
| 29) ethyl tert-butyl ether | 3.550 | 59 | 2259718 | 183.39 | ug/L | 98 |
| 30) 2-butanone | 3.650 | 72 | 523663 | 708.82 | ug/L | 93 |
| 31) 1,1-dichloroethane | 3.355 | 63 | 1233367 | 176.64 | ug/L | 100 |
| 32) chloroprene | 3.396 | 53 | 977487 | 183.45 | ug/L | 99 |
| 33) acrylonitrile | 3.069 | 53 | 356832 | 178.72 | ug/L | 98 |
| 34) vinyl acetate | 3.326 | 86 | 190084 | 192.84 | ug/L # | 83 |
| 35) ethyl acetate | 3.656 | 45 | 143084 | 174.44 | ug/L # | 79 |
| 36) 2,2-dichloropropane | 3.688 | 77 | 970675 | 193.69 | ug/L | 99 |
| 37) cis-1,2-dichloroethene | 3.679 | 96 | 803877 | 180.19 | ug/L | 98 |
| 38) propionitrile | 3.692 | 54 | 1311820 | 1695.48 | ug/L | 79 |
| 39) methyl acrylate | 3.695 | 85 | 182544 | 183.04 | ug/L | 95 |
| 40) bromochloromethane | 3.817 | 128 | 394794 | 178.61 | ug/L | 96 |
| 41) tetrahydrofuran | 3.826 | 72 | 149889 | 174.59 | ug/L | 93 |
| 42) chloroform | 3.855 | 83 | 1303773 | 177.07 | ug/L | 98 |
| 44) methacrylonitrile | 3.778 | 67 | 426182 | 181.01 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226131.D
Acq On : 14 Sep 2022 1:04 am
Operator : PrashanS
Sample : IC9688-200
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 20 17:38:06 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 45) 1,1,1-trichloroethane | 3.977 | 97 | 1211753 | 186.49 | ug/L | | 98 |
| 46) cyclohexane | 4.029 | 84 | 1153547 | 188.86 | ug/L | | 98 |
| 47) 1,1-dichloropropene | 4.064 | 75 | 1007643 | 185.18 | ug/L | | 99 |
| 48) carbon tetrachloride | 4.073 | 117 | 1082129 | 191.54 | ug/L | | 98 |
| 49) isopropyl acetate | 4.147 | 87 | 227442 | 182.80 | ug/L | | 92 |
| 50) tert amyl alcohol | 4.131 | 55 | 195681 | 821.00 | ug/L | # | 80 |
| 53) tert-amyl methyl ether | 4.227 | 73 | 2362401 | 193.07 | ug/L | | 99 |
| 54) 2,2,4-trimethylpentane | 4.231 | 57 | 1943765 | 199.96 | ug/L | | 98 |
| 55) n-butyl alcohol | 4.436 | 56 | 1267181 | 9361.64 | ug/L | | 100 |
| 56) benzene | 4.186 | 78 | 2840808 | 187.80 | ug/L | | 99 |
| 57) heptane | 4.314 | 57 | 383730 | 202.20 | ug/L | | 98 |
| 58) 1,2-dichloroethane | 4.202 | 62 | 1003355 | 182.78 | ug/L | | 99 |
| 59) trichloroethene | 4.561 | 95 | 807085 | 198.49 | ug/L | | 93 |
| 60) ethyl acrylate | 4.561 | 55 | 1219984 | 186.16 | ug/L | | 97 |
| 61) 2-nitropropane | 4.991 | 41 | 333088 | 188.87 | ug/L | | 98 |
| 62) 2-chloroethyl vinyl ether | 5.010 | 63 | 643162 | 760.98 | ug/L | | 98 |
| 63) methyl methacrylate | 4.706 | 100 | 300458 | 197.68 | ug/L | | 98 |
| 64) 1,2-dichloropropane | 4.718 | 63 | 726064 | 187.10 | ug/L | | 97 |
| 65) methylcyclohexane | 4.715 | 83 | 1270928 | 202.34 | ug/L | | 98 |
| 66) dibromomethane | 4.776 | 93 | 521596 | 192.56 | ug/L | | 93 |
| 67) bromodichloromethane | 4.866 | 83 | 1071146 | 190.55 | ug/L | | 97 |
| 68) cis-1,3-dichloropropene | 5.132 | 75 | 1239740 | 189.53 | ug/L | | 98 |
| 69) epichlorohydrin | 5.059 | 57 | 307130 | 1079.07 | ug/L | | 85 |
| 70) 4-methyl-2-pentanone | 5.203 | 58 | 1601050 | 739.51 | ug/L | | 95 |
| 71) 3-methyl-1-butanol | 5.209 | 70 | 581125 | 3930.51 | ug/L | | 96 |
| 74) toluene | 5.360 | 92 | 1858472 | 188.13 | ug/L | | 97 |
| 75) trans-1,3-dichloropropene | 5.482 | 75 | 1195953 | 194.82 | ug/L | | 91 |
| 76) ethyl methacrylate | 5.489 | 69 | 1168257 | 183.86 | ug/L | | 98 |
| 77) 1,1,2-trichloroethane | 5.620 | 83 | 618190 | 183.43 | ug/L | | 97 |
| 78) 2-hexanone | 5.739 | 58 | 1583902 | 724.00 | ug/L | | 95 |
| 79) tetrachloroethene | 5.704 | 166 | 814399 | 198.46 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 5.736 | 76 | 1219838 | 186.41 | ug/L | | 99 |
| 81) butyl acetate | 5.797 | 56 | 586104 | 184.36 | ug/L | | 95 |
| 82) dibromochloromethane | 5.886 | 129 | 890623 | 196.80 | ug/L | | 100 |
| 83) 1,2-dibromoethane | 5.983 | 107 | 828627 | 190.51 | ug/L | | 99 |
| 84) n-butyl ether | 6.320 | 57 | 2797718 | 185.40 | ug/L | | 97 |
| 85) chlorobenzene | 6.313 | 112 | 2129520 | 194.96 | ug/L | | 97 |
| 86) 1,1,1,2-tetrachloroethane | 6.361 | 131 | 767508 | 196.83 | ug/L | | 97 |
| 87) ethylbenzene | 6.361 | 91 | 3351712 | 184.97 | ug/L | | 98 |
| 88) m,p-xylene | 6.448 | 106 | 2705219 | 383.43 | ug/L | | 95 |
| 89) o-xylene | 6.718 | 106 | 1367099 | 191.56 | ug/L | | 94 |
| 90) butyl acrylate | 6.634 | 55 | 1641245 | 190.08 | ug/L | | 95 |
| 91) n-amyl acetate | 6.782 | 70 | 647089 | 186.99 | ug/L | | 97 |
| 92) styrene | 6.727 | 104 | 2308512 | 185.47 | ug/L | | 98 |
| 93) bromoform | 6.865 | 173 | 657947 | 197.27 | ug/L | | 97 |
| 94) isopropylbenzene | 6.958 | 105 | 3338046 | 184.78 | ug/L | | 98 |
| 95) cis-1,4-dichloro-2-butene | 6.990 | 88 | 353538 | 196.67 | ug/L | | 98 |
| 98) bromobenzene | 7.193 | 156 | 859524 | 190.53 | ug/L | | 95 |
| 99) 1,1,2,2-tetrachloroethane | 7.151 | 83 | 1043646 | 182.29 | ug/L | | 97 |
| 100) trans-1,4-dichloro-2-b... | 7.176 | 53 | 243413 | 193.73 | ug/L | | 100 |
| 101) 1,2,3-trichloropropane | 7.202 | 110 | 310739 | 179.50 | ug/L | | 99 |
| 102) n-propylbenzene | 7.234 | 91 | 3561913 | 182.02 | ug/L | | 100 |
| 103) 2-chlorotoluene | 7.311 | 126 | 789739 | 191.47 | ug/L | | 95 |
| 104) 4-chlorotoluene | 7.388 | 126 | 803461 | 191.83 | ug/L | | 95 |
| 105) 1,3,5-trimethylbenzene | 7.350 | 105 | 2444461 | 182.23 | ug/L | | 98 |
| 106) tert-butylbenzene | 7.562 | 119 | 2285151 | 194.38 | ug/L | | 95 |
| 107) 1,2,4-trimethylbenzene | 7.597 | 105 | 2484735 | 178.72 | ug/L | | 97 |
| 108) sec-butylbenzene | 7.703 | 105 | 3138760 | 187.59 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226131.D
Acq On : 14 Sep 2022 1:04 am
Operator : PrashanS
Sample : IC9688-200
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 20 17:38:06 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration

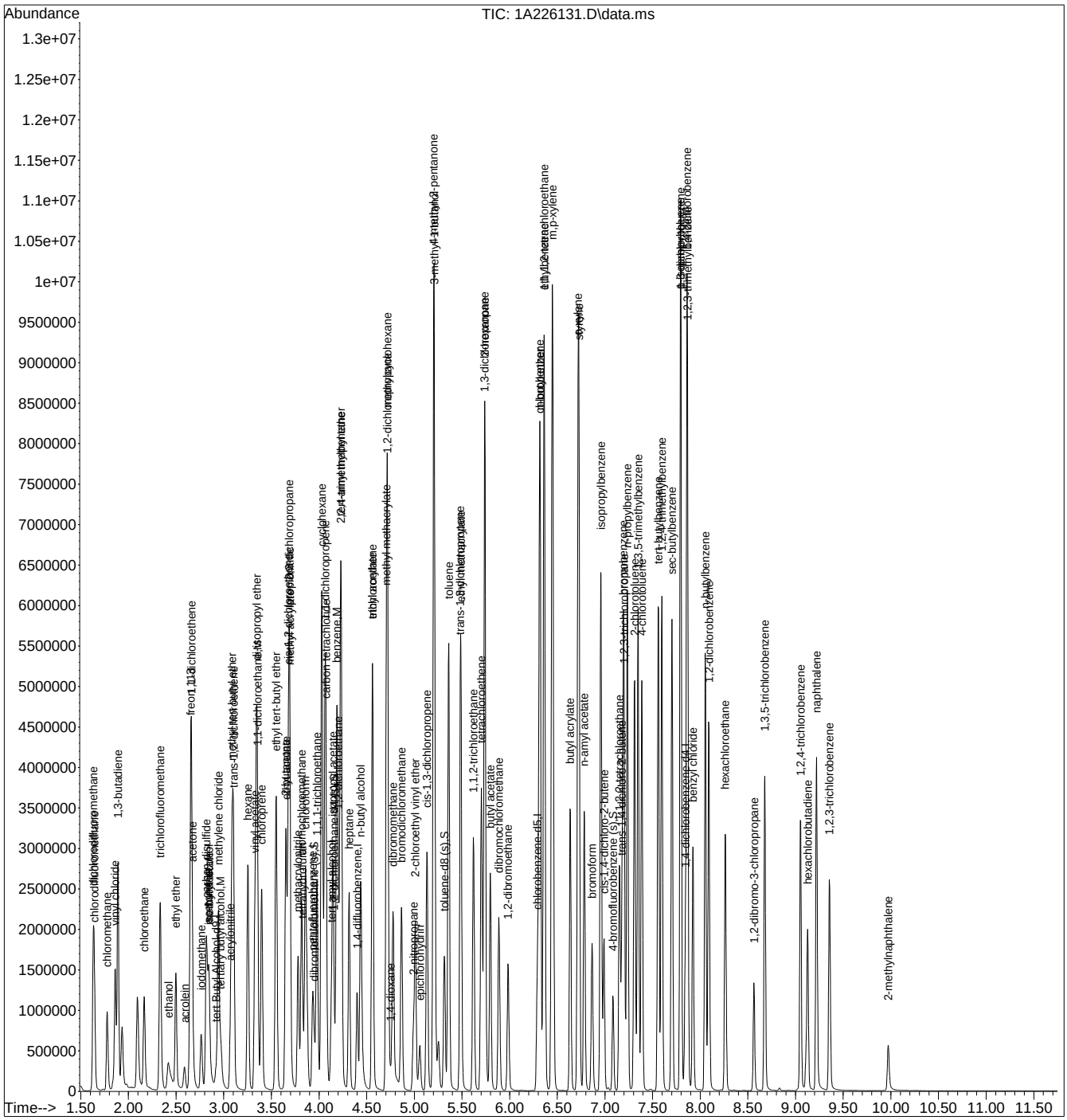
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 109) 1,3-dichlorobenzene | 7.796 | 146 | 1519504 | 197.09 | ug/L | 97 |
| 110) p-isopropyltoluene | 7.793 | 119 | 2733292 | 192.43 | ug/L | 100 |
| 111) 1,2,3-trimethylbenzene | 7.866 | 105 | 2532831 | 183.56 | ug/L | 98 |
| 112) 1,4-dichlorobenzene | 7.860 | 146 | 1543421 | 197.18 | ug/L | 99 |
| 113) 1,2-dichlorobenzene | 8.091 | 146 | 1406478 | 190.60 | ug/L | 98 |
| 114) n-butylbenzene | 8.053 | 92 | 1204800 | 190.62 | ug/L | 96 |
| 115) 1,2-dibromo-3-chloropr... | 8.566 | 157 | 278382 | 200.20 | ug/L | 92 |
| 116) 1,3,5-trichlorobenzene | 8.678 | 180 | 899862 | 198.89 | ug/L | 100 |
| 117) 1,2,4-trichlorobenzene | 9.054 | 180 | 772490 | 198.51 | ug/L | 99 |
| 118) hexachlorobutadiene | 9.127 | 225 | 250702 | 198.22 | ug/L | 94 |
| 119) naphthalene | 9.221 | 128 | 2538579 | 187.77 | ug/L | 99 |
| 120) 1,2,3-trichlorobenzene | 9.355 | 180 | 635604 | 194.94 | ug/L | 97 |
| 121) hexachloroethane | 8.261 | 119 | 466165 | 210.04 | ug/L | 97 |
| 122) benzyl chloride | 7.924 | 91 | 1582619 | 205.85 | ug/L | 98 |
| 123) 2-methylnaphthalene | 9.971 | 142 | 275256 | 99.10 | ug/L | 95 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226131.D
Acq On : 14 Sep 2022 1:04 am
Operator : PrashanS
Sample : IC9688-200
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 20 17:38:06 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 09:49:18 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226134.D
Acq On : 14 Sep 2022 2:15 am
Operator : PrashanS
Sample : ICV9688-50
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 21 12:04:21 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.918 | 65 | 251784 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.935 | 168 | 459342 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.397 | 114 | 687566 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 619798 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 252647 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 203453 | 50.26 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.52% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 229530 | 48.21 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 96.42% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 799116 | 47.93 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.86% | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 258474 | 49.31 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.62% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.750 | 88 | 48781 | 1321.57 | ug/L | 93 |
| 3) ethanol | 2.411 | 45 | 153959 | 4929.18 | ug/L | 100 |
| 4) tertiary butyl alcohol | 2.963 | 59 | 138625 | 240.18 | ug/L | 96 |
| 7) dichlorodifluoromethane | 1.631 | 85 | 274864 | 48.33 | ug/L | 96 |
| 8) chloromethane | 1.776 | 50 | 198739 | 49.28 | ug/L | 99 |
| 9) vinyl chloride | 1.862 | 62 | 292988 | 52.13 | ug/L | 96 |
| 10) 1,3-butadiene | 1.891 | 54 | 282207 | 56.86 | ug/L | 99 |
| 11) bromomethane | 2.100 | 96 | 121386 | 59.73 | ug/L | 99 |
| 12) chloroethane | 2.170 | 64 | 184144 | 49.48 | ug/L | 98 |
| 13) trichlorofluoromethane | 2.334 | 101 | 352889 | 51.58 | ug/L | 99 |
| 14) ethyl ether | 2.498 | 74 | 114371 | 52.60 | ug/L | 97 |
| 15) acrolein | 2.591 | 56 | 37788 | 52.72 | ug/L | 96 |
| 16) freon 113 | 2.655 | 151 | 140261 | 48.78 | ug/L | 98 |
| 17) 1,1-dichloroethene | 2.661 | 96 | 163846 | 51.25 | ug/L | 94 |
| 18) acetone | 2.668 | 58 | 79967 | 198.04 | ug/L | 98 |
| 20) iodomethane | 2.764 | 142 | 113891 | 66.83 | ug/L | 93 |
| 21) iso-butyl alcohol | 2.844 | 43 | 194101 | 542.18 | ug/L | 98 |
| 22) carbon disulfide | 2.819 | 76 | 483319 | 50.60 | ug/L | 99 |
| 23) methylene chloride | 2.944 | 84 | 178942 | 47.70 | ug/L | 95 |
| 24) methyl acetate | 2.844 | 74 | 50933 | 57.20 | ug/L | 99 |
| 25) methyl tert butyl ether | 3.088 | 73 | 582370 | 52.00 | ug/L | 97 |
| 26) trans-1,2-dichloroethene | 3.104 | 96 | 173365 | 50.75 | ug/L | 98 |
| 27) hexane | 3.255 | 57 | 251672 | 56.07 | ug/L | 99 |
| 28) di-isopropyl ether | 3.342 | 45 | 530109 | 50.95 | ug/L | 95 |
| 29) ethyl tert-butyl ether | 3.550 | 59 | 534744 | 49.64 | ug/L | 99 |
| 30) 2-butanone | 3.650 | 72 | 131527 | 207.97 | ug/L | 98 |
| 31) 1,1-dichloroethane | 3.355 | 63 | 311787 | 49.91 | ug/L | 98 |
| 32) chloroprene | 3.400 | 53 | 256439 | 51.87 | ug/L | 97 |
| 34) vinyl acetate | 3.326 | 86 | 38912 | 44.77 | ug/L # | 86 |
| 35) ethyl acetate | 3.656 | 45 | 35255 | 47.32 | ug/L | 88 |
| 36) 2,2-dichloropropane | 3.688 | 77 | 224711 | 51.55 | ug/L | 98 |
| 37) cis-1,2-dichloroethene | 3.679 | 96 | 199823 | 52.11 | ug/L | 99 |
| 38) propionitrile | 3.688 | 54 | 321968 | 484.17 | ug/L | 92 |
| 39) methyl acrylate | 3.692 | 85 | 44955 | 52.95 | ug/L | 95 |
| 40) bromochloromethane | 3.813 | 128 | 100306 | 51.44 | ug/L | 98 |
| 41) tetrahydrofuran | 3.826 | 72 | 40435 | 50.60 | ug/L # | 82 |
| 42) chloroform | 3.855 | 83 | 332499 | 47.81 | ug/L | 99 |
| 44) methacrylonitrile | 3.778 | 67 | 106927 | 52.04 | ug/L | 98 |
| 45) 1,1,1-trichloroethane | 3.980 | 97 | 294335 | 51.33 | ug/L | 98 |
| 46) cyclohexane | 4.028 | 84 | 278967 | 51.46 | ug/L | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226134.D
Acq On : 14 Sep 2022 2:15 am
Operator : PrashanS
Sample : ICV9688-50
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 21 12:04:21 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 47) 1,1-dichloropropene | 4.064 | 75 | 253718 | 50.83 ug/L | 98 |
| 48) carbon tetrachloride | 4.073 | 117 | 256977 | 52.20 ug/L | 98 |
| 49) isopropyl acetate | 4.147 | 87 | 55507 | 52.23 ug/L # | 90 |
| 50) tert amyl alcohol | 4.128 | 55 | 52598 | 259.33 ug/L | 98 |
| 53) tert-amyl methyl ether | 4.224 | 73 | 543028 | 48.04 ug/L | 99 |
| 54) 2,2,4-trimethylpentane | 4.231 | 57 | 444538 | 49.30 ug/L | 99 |
| 55) n-butyl alcohol | 4.436 | 56 | 298319 | 2542.81 ug/L | 100 |
| 56) benzene | 4.186 | 78 | 719126 | 50.63 ug/L | 99 |
| 57) heptane | 4.317 | 57 | 97631 | 55.76 ug/L | 98 |
| 58) 1,2-dichloroethane | 4.202 | 62 | 255831 | 49.34 ug/L | 98 |
| 59) trichloroethene | 4.561 | 95 | 193961 | 51.28 ug/L | 95 |
| 60) ethyl acrylate | 4.561 | 55 | 287737 | 50.90 ug/L | 97 |
| 61) 2-nitropropane | 4.991 | 41 | 83121 | 51.32 ug/L | 97 |
| 62) 2-chloroethyl vinyl ether | 5.010 | 63 | 213489 | 252.00 ug/L | 97 |
| 63) methyl methacrylate | 4.706 | 100 | 75083 | 57.78 ug/L | 97 |
| 64) 1,2-dichloropropane | 4.718 | 63 | 177072 | 48.65 ug/L | 97 |
| 65) methylcyclohexane | 4.718 | 83 | 306547 | 52.79 ug/L | 99 |
| 66) dibromomethane | 4.776 | 93 | 127479 | 48.53 ug/L | 95 |
| 67) bromodichloromethane | 4.866 | 83 | 264445 | 49.31 ug/L | 99 |
| 68) cis-1,3-dichloropropene | 5.132 | 75 | 298113 | 50.56 ug/L | 99 |
| 69) epichlorohydrin | 5.059 | 57 | 62870 | 235.31 ug/L | 87 |
| 70) 4-methyl-2-pentanone | 5.203 | 58 | 395806 | 208.67 ug/L | 98 |
| 71) 3-methyl-1-butanol | 5.209 | 70 | 131563 | 994.72 ug/L | 97 |
| 74) toluene | 5.357 | 92 | 455619 | 50.20 ug/L | 96 |
| 75) trans-1,3-dichloropropene | 5.482 | 75 | 280488 | 53.65 ug/L | 93 |
| 76) ethyl methacrylate | 5.489 | 69 | 276047 | 51.05 ug/L | 96 |
| 77) 1,1,2-trichloroethane | 5.617 | 83 | 152928 | 48.36 ug/L | 98 |
| 78) 2-hexanone | 5.739 | 58 | 396035 | 205.88 ug/L | 97 |
| 80) 1,3-dichloropropane | 5.736 | 76 | 301636 | 49.43 ug/L | 99 |
| 81) butyl acetate | 5.797 | 56 | 147231 | 54.65 ug/L | 94 |
| 82) dibromochloromethane | 5.886 | 129 | 217029 | 50.24 ug/L | 100 |
| 83) 1,2-dibromoethane | 5.983 | 107 | 200323 | 49.34 ug/L | 100 |
| 84) n-butyl ether | 6.320 | 57 | 672912 | 50.73 ug/L | 99 |
| 85) chlorobenzene | 6.310 | 112 | 503380 | 49.08 ug/L | 98 |
| 86) 1,1,1,2-tetrachloroethane | 6.361 | 131 | 177282 | 50.32 ug/L | 98 |
| 87) ethylbenzene | 6.361 | 91 | 832639 | 48.61 ug/L | 98 |
| 88) m,p-xylene | 6.448 | 106 | 651543 | 102.24 ug/L | 99 |
| 89) o-xylene | 6.718 | 106 | 331276 | 52.18 ug/L | 98 |
| 90) butyl acrylate | 6.634 | 55 | 393721 | 56.50 ug/L | 98 |
| 91) n-amyl acetate | 6.785 | 70 | 152145 | 55.30 ug/L | 93 |
| 92) styrene | 6.727 | 104 | 568976 | 54.87 ug/L | 98 |
| 93) bromoform | 6.865 | 173 | 153059 | 53.25 ug/L | 98 |
| 94) isopropylbenzene | 6.958 | 105 | 832017 | 51.73 ug/L | 99 |
| 95) cis-1,4-dichloro-2-butene | 6.990 | 88 | 76587 | 55.02 ug/L | 98 |
| 98) bromobenzene | 7.192 | 156 | 207985 | 51.60 ug/L | 98 |
| 99) 1,1,2,2-tetrachloroethane | 7.154 | 83 | 260495 | 49.14 ug/L | 93 |
| 100) trans-1,4-dichloro-2-b... | 7.180 | 53 | 60958 | 58.12 ug/L | 96 |
| 101) 1,2,3-trichloropropane | 7.202 | 110 | 79769 | 49.37 ug/L | 98 |
| 102) n-propylbenzene | 7.234 | 91 | 903917 | 50.84 ug/L | 98 |
| 103) 2-chlorotoluene | 7.311 | 126 | 190191 | 51.30 ug/L | 99 |
| 104) 4-chlorotoluene | 7.385 | 126 | 192245 | 51.04 ug/L | 98 |
| 105) 1,3,5-trimethylbenzene | 7.346 | 105 | 615850 | 51.19 ug/L | 99 |
| 106) tert-butylbenzene | 7.558 | 119 | 553837 | 52.78 ug/L | 97 |
| 107) 1,2,4-trimethylbenzene | 7.597 | 105 | 625582 | 51.61 ug/L | 94 |
| 108) sec-butylbenzene | 7.703 | 105 | 768427 | 52.62 ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.796 | 146 | 352591 | 53.22 ug/L | 97 |
| 110) p-isopropyltoluene | 7.793 | 119 | 653790 | 55.19 ug/L | 97 |
| 112) 1,4-dichlorobenzene | 7.857 | 146 | 349711 | 49.62 ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226134.D
Acq On : 14 Sep 2022 2:15 am
Operator : PrashanS
Sample : ICV9688-50
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 21 12:04:21 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

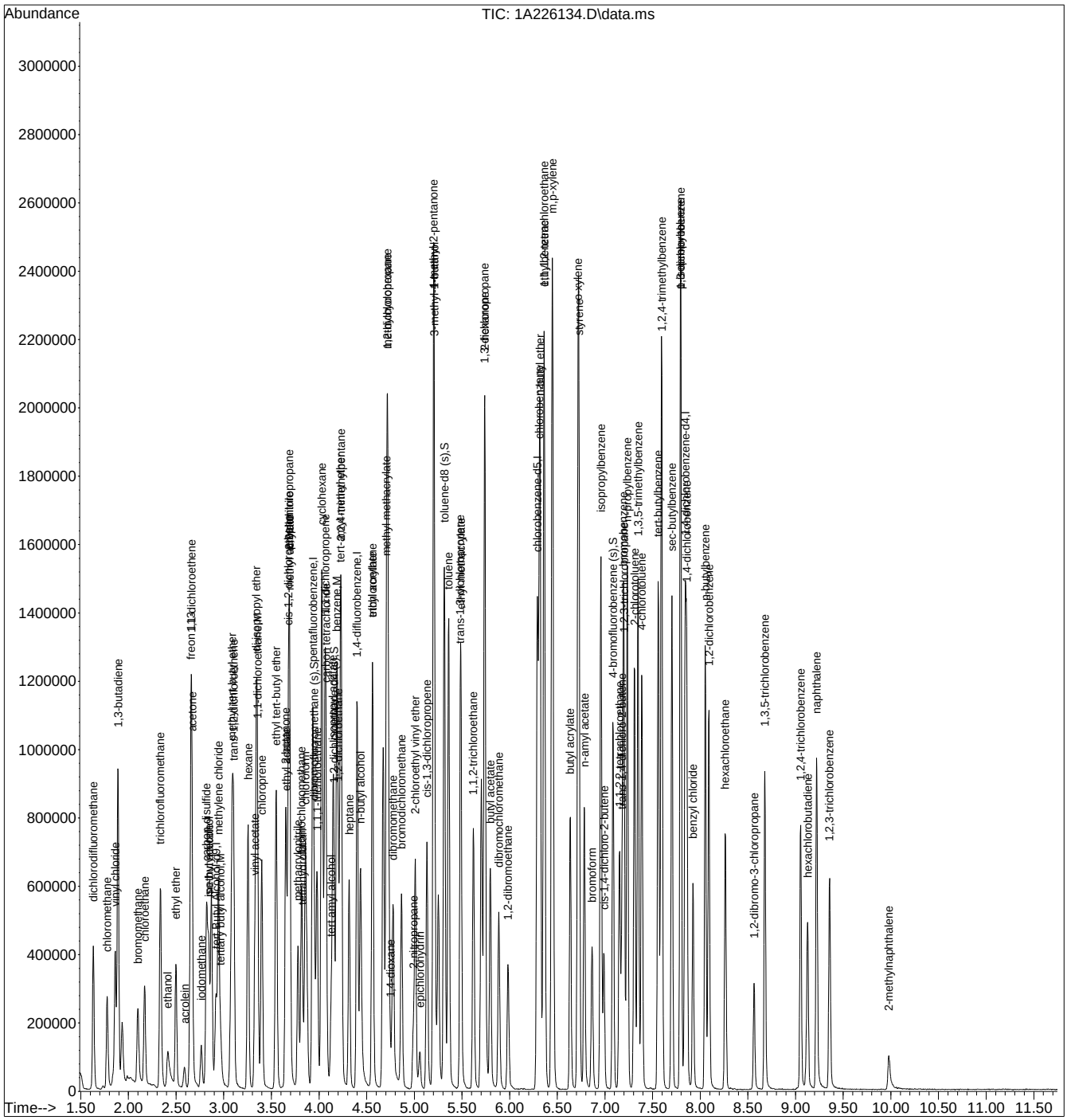
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 113) 1,2-dichlorobenzene | 8.091 | 146 | 340164 | 53.69 | ug/L | 99 |
| 114) n-butylbenzene | 8.052 | 92 | 290285 | 56.13 | ug/L | 98 |
| 115) 1,2-dibromo-3-chloropr... | 8.566 | 157 | 64784 | 55.23 | ug/L | 92 |
| 116) 1,3,5-trichlorobenzene | 8.678 | 180 | 210107 | 55.29 | ug/L | 98 |
| 117) 1,2,4-trichlorobenzene | 9.054 | 180 | 177033 | 56.62 | ug/L | 98 |
| 118) hexachlorobutadiene | 9.127 | 225 | 59707 | 51.68 | ug/L | 95 |
| 119) naphthalene | 9.220 | 128 | 614557 | 55.96 | ug/L | 98 |
| 120) 1,2,3-trichlorobenzene | 9.355 | 180 | 146042 | 54.01 | ug/L | 97 |
| 121) hexachloroethane | 8.261 | 119 | 106154 | 56.97 | ug/L | 98 |
| 122) benzyl chloride | 7.924 | 91 | 318363 | 53.27 | ug/L | 99 |
| 123) 2-methylnaphthalene | 9.978 | 142 | 62060 | 25.25 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226134.D
Acq On : 14 Sep 2022 2:15 am
Operator : PrashanS
Sample : ICV9688-50
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 21 12:04:21 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226135.D
Acq On : 14 Sep 2022 2:39 am
Operator : PrashanS
Sample : ICV9688-50
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 20 17:40:11 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 11:59:35 2022
Response via : Initial Calibration

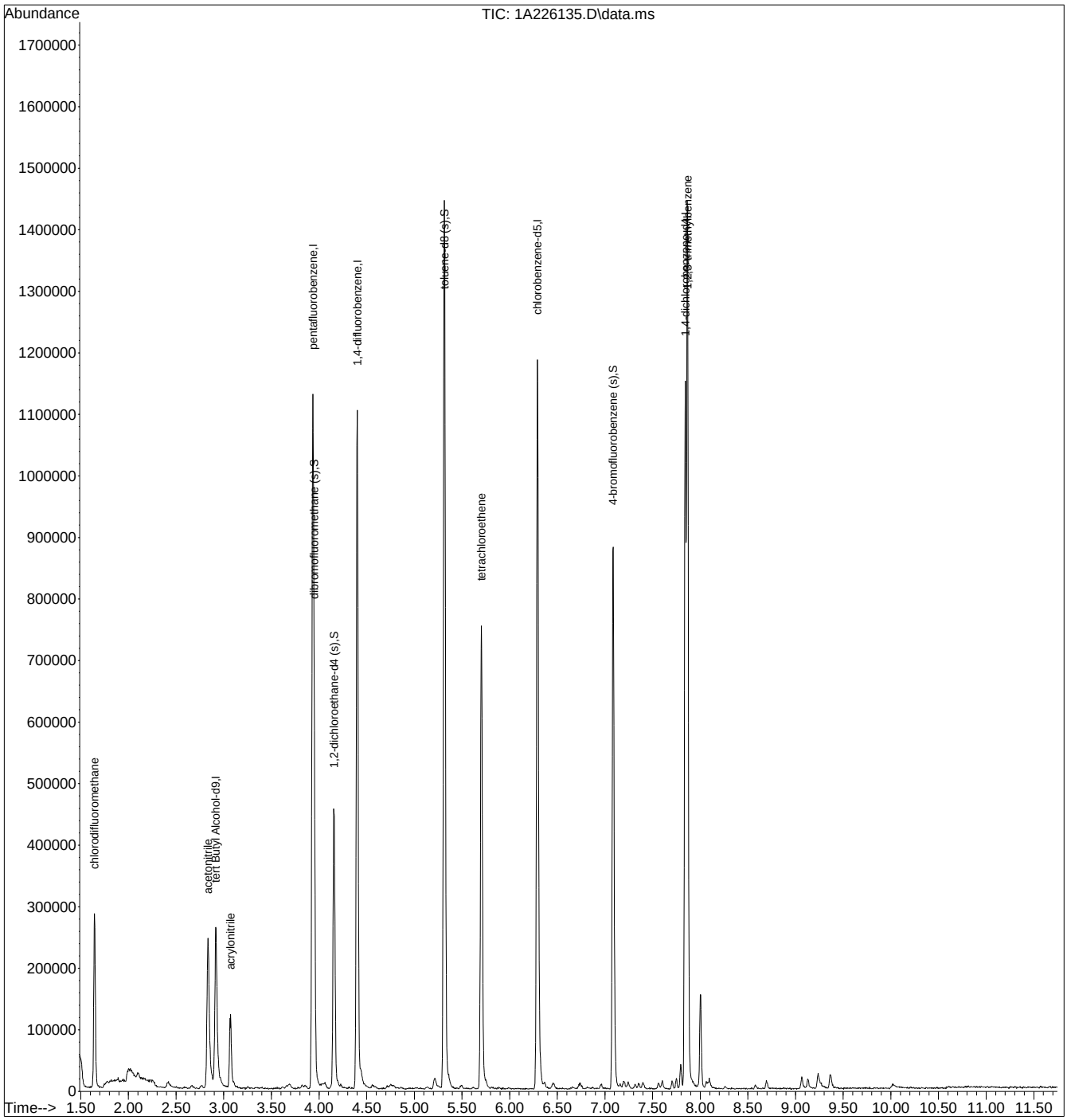
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.915 | 65 | 240030 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.935 | 168 | 460882 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 665655 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 556796 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 221738 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 201137 | 49.52 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.04% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 235006 | 50.98 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.96% | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 757188 | 50.55 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.10% | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 234350 | 50.94 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.88% | | | |
| Target Compounds | | | | | | Qvalue |
| 6) chlorodifluoromethane | 1.644 | 51 | 210275 | 54.03 | ug/L | 94 |
| 19) acetonitrile | 2.835 | 40 | 125397 | 453.26 | ug/L | 98 |
| 33) acrylonitrile | 3.072 | 53 | 67842 | 39.93 | ug/L | 95 |
| 79) tetrachloroethene | 5.703 | 166 | 166383 | 48.19 | ug/L | 98 |
| 111) 1,2,3-trimethylbenzene | 7.866 | 105 | 616080 | 57.19 | ug/L | 91 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V1A9688\
Data File : 1A226135.D
Acq On : 14 Sep 2022 2:39 am
Operator : PrashanS
Sample : ICV9688-50
Misc : MS62100, V1A9688,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 20 17:40:11 2022
Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Mon Sep 19 11:59:35 2022
Response via : Initial Calibration




M1A9688.M Thu Sep 22 14:06:19 2022 1A

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226430.d
Acq On : 27 Sep 2022 9:36 am
Operator : nickw
Sample : CCC9688-20 Inst : MSDTEST1A
Misc : MS62471, V1A9698,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 16:26:32 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.918 | 65 | 232944 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.932 | 168 | 525323 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.401 | 114 | 769721 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 668715 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.844 | 152 | 274586 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 227319 | 49.10 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.20% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 255297 | 47.90 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 95.80% | | | | |
| 73) toluene-d8 (s) | 5.315 | 98 | 883907 | 49.14 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.28% | | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 283154 | 49.70 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.40% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.744 | 88 | 14897 | 436.23 | ug/L | | 76 |
| 3) ethanol | 2.414 | 45 | 50523 | 1748.38 | ug/L | | 100 |
| 4) tertiary butyl alcohol | 2.966 | 59 | 53403 | 100.01 | ug/L | | 97 |
| 6) chlorodifluoromethane | 1.647 | 51 | 69197 | 15.60 | ug/L | | 97 |
| 7) dichlorodifluoromethane | 1.635 | 85 | 108551 | 16.69 | ug/L | | 96 |
| 8) chloromethane | 1.779 | 50 | 81012 | 17.57 | ug/L | | 97 |
| 9) vinyl chloride | 1.862 | 62 | 114520 | 17.82 | ug/L | | 99 |
| 10) 1,3-butadiene | 1.891 | 54 | 86407 | 15.22 | ug/L | | 99 |
| 11) bromomethane | 2.100 | 96 | 31990 | 17.83 | ug/L | | 97 |
| 12) chloroethane | 2.171 | 64 | 72569 | 17.05 | ug/L | | 98 |
| 13) trichlorofluoromethane | 2.341 | 101 | 151455 | 19.36 | ug/L | | 98 |
| 14) ethyl ether | 2.501 | 74 | 48499 | 19.50 | ug/L | | 97 |
| 15) acrolein | 2.588 | 56 | 16994 | 20.73 | ug/L | | 99 |
| 16) freon 113 | 2.658 | 151 | 63592 | 19.34 | ug/L | # | 82 |
| 17) 1,1-dichloroethene | 2.661 | 96 | 70110 | 19.18 | ug/L | | 97 |
| 18) acetone | 2.668 | 58 | 37120 | 80.38 | ug/L | | 100 |
| 19) acetonitrile | 2.838 | 40 | 58783 | 186.41 | ug/L | | 94 |
| 20) iodomethane | 2.761 | 142 | 27607 | 14.16 | ug/L | | 96 |
| 21) iso-butyl alcohol | 2.844 | 43 | 75994 | 185.61 | ug/L | | 98 |
| 22) carbon disulfide | 2.819 | 76 | 194944 | 17.85 | ug/L | | 98 |
| 23) methylene chloride | 2.944 | 84 | 78964 | 18.40 | ug/L | | 98 |
| 24) methyl acetate | 2.848 | 74 | 20693 | 20.32 | ug/L | | 89 |
| 25) methyl tert butyl ether | 3.088 | 73 | 251720 | 19.65 | ug/L | | 99 |
| 26) trans-1,2-dichloroethene | 3.104 | 96 | 76811 | 19.66 | ug/L | | 98 |
| 27) hexane | 3.255 | 57 | 96576 | 18.81 | ug/L | | 98 |
| 28) di-isopropyl ether | 3.345 | 45 | 229547 | 19.29 | ug/L | | 99 |
| 29) ethyl tert-butyl ether | 3.550 | 59 | 238888 | 19.39 | ug/L | | 98 |
| 30) 2-butanone | 3.650 | 72 | 53587 | 74.09 | ug/L | | 95 |
| 31) 1,1-dichloroethane | 3.355 | 63 | 137782 | 19.29 | ug/L | | 96 |
| 32) chloroprene | 3.400 | 53 | 107137 | 18.95 | ug/L | | 98 |
| 33) acrylonitrile | 3.069 | 53 | 37756 | 19.50 | ug/L | | 93 |
| 34) vinyl acetate | 3.329 | 86 | 19743 | 19.86 | ug/L | | 99 |
| 35) ethyl acetate | 3.653 | 45 | 17365 | 20.38 | ug/L | | 94 |
| 36) 2,2-dichloropropane | 3.688 | 77 | 119861 | 24.04 | ug/L | | 99 |
| 37) cis-1,2-dichloroethene | 3.679 | 96 | 88956 | 20.29 | ug/L | | 99 |
| 38) propionitrile | 3.688 | 54 | 147792 | 194.33 | ug/L | | 98 |
| 39) methyl acrylate | 3.695 | 85 | 18613 | 19.17 | ug/L | | 95 |
| 40) bromochloromethane | 3.817 | 128 | 45133 | 20.24 | ug/L | | 97 |
| 41) tetrahydrofuran | 3.826 | 72 | 16876 | 18.46 | ug/L | | 86 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226430.d
Acq On : 27 Sep 2022 9:36 am
Operator : nickw
Sample : CCC9688-20 Inst : MSDTEST1A
Misc : MS62471, V1A9698,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 16:26:32 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) | chloroform | 3.858 | 83 | 148631 | 18.69 | ug/L | 98 |
| 44) | methacrylonitrile | 3.778 | 67 | 43654 | 18.58 | ug/L | 92 |
| 45) | 1,1,1-trichloroethane | 3.980 | 97 | 127260 | 19.41 | ug/L | 93 |
| 46) | cyclohexane | 4.032 | 84 | 110546 | 17.83 | ug/L | 91 |
| 47) | 1,1-dichloropropene | 4.067 | 75 | 108118 | 18.94 | ug/L | 94 |
| 48) | carbon tetrachloride | 4.073 | 117 | 111976 | 19.89 | ug/L | 97 |
| 49) | isopropyl acetate | 4.147 | 87 | 24038 | 19.78 | ug/L | 93 |
| 50) | tert amyl alcohol | 4.131 | 55 | 20826 | 89.78 | ug/L | 94 |
| 53) | tert-amyl methyl ether | 4.227 | 73 | 246372 | 19.47 | ug/L | 96 |
| 54) | 2,2,4-trimethylpentane | 4.234 | 57 | 193598 | 19.18 | ug/L | 98 |
| 55) | n-butyl alcohol | 4.436 | 56 | 96680 | 796.31 | ug/L | 98 |
| 56) | benzene | 4.189 | 78 | 313217 | 19.70 | ug/L | 99 |
| 57) | heptane | 4.314 | 57 | 38672 | 19.73 | ug/L | 94 |
| 58) | 1,2-dichloroethane | 4.202 | 62 | 117121 | 20.18 | ug/L | 98 |
| 59) | trichloroethene | 4.561 | 95 | 85300 | 20.15 | ug/L | 90 |
| 60) | ethyl acrylate | 4.561 | 55 | 125954 | 19.90 | ug/L | 96 |
| 61) | 2-nitropropane | 4.991 | 41 | 35075 | 19.34 | ug/L | 94 |
| 62) | 2-chloroethyl vinyl ether | 5.010 | 63 | 105718 | 111.47 | ug/L | 99 |
| 63) | methyl methacrylate | 4.706 | 100 | 30018 | 20.64 | ug/L | 90 |
| 64) | 1,2-dichloropropane | 4.718 | 63 | 77027 | 18.90 | ug/L | 95 |
| 65) | methylcyclohexane | 4.715 | 83 | 127957 | 19.68 | ug/L | 98 |
| 66) | dibromomethane | 4.776 | 93 | 58084 | 19.75 | ug/L | 97 |
| 67) | bromodichloromethane | 4.866 | 83 | 119041 | 19.83 | ug/L | 96 |
| 68) | cis-1,3-dichloropropene | 5.132 | 75 | 133737 | 20.26 | ug/L | 96 |
| 69) | epichlorohydrin | 5.059 | 57 | 28527 | 95.38 | ug/L | 91 |
| 70) | 4-methyl-2-pentanone | 5.203 | 58 | 168069 | 79.15 | ug/L | 94 |
| 71) | 3-methyl-1-butanol | 5.209 | 70 | 44748 | 322.04 | ug/L | 93 |
| 74) | toluene | 5.360 | 92 | 202823 | 20.71 | ug/L | 95 |
| 75) | trans-1,3-dichloropropene | 5.485 | 75 | 121366 | 21.52 | ug/L | 96 |
| 76) | ethyl methacrylate | 5.489 | 69 | 124026 | 21.26 | ug/L | 99 |
| 77) | 1,1,2-trichloroethane | 5.620 | 83 | 69272 | 20.30 | ug/L | 94 |
| 78) | 2-hexanone | 5.739 | 58 | 165944 | 79.95 | ug/L | 99 |
| 79) | tetrachloroethene | 5.704 | 166 | 88520 | 21.35 | ug/L | 98 |
| 80) | 1,3-dichloropropane | 5.736 | 76 | 134537 | 20.44 | ug/L | 97 |
| 81) | butyl acetate | 5.797 | 56 | 60828 | 20.93 | ug/L | 98 |
| 82) | dibromochloromethane | 5.886 | 129 | 92751 | 19.90 | ug/L | 99 |
| 83) | 1,2-dibromoethane | 5.983 | 107 | 88455 | 20.19 | ug/L | 99 |
| 84) | n-butyl ether | 6.320 | 57 | 289418 | 20.22 | ug/L | 98 |
| 85) | chlorobenzene | 6.313 | 112 | 221147 | 19.98 | ug/L | 95 |
| 86) | 1,1,1,2-tetrachloroethane | 6.361 | 131 | 77967 | 20.51 | ug/L | 98 |
| 87) | ethylbenzene | 6.361 | 91 | 370431 | 20.04 | ug/L | 98 |
| 88) | m,p-xylene | 6.448 | 106 | 288154 | 41.91 | ug/L | 98 |
| 89) | o-xylene | 6.718 | 106 | 143498 | 20.95 | ug/L | 98 |
| 90) | butyl acrylate | 6.637 | 55 | 162241 | 21.58 | ug/L | 96 |
| 91) | n-amyl acetate | 6.785 | 70 | 62860 | 21.18 | ug/L | 96 |
| 92) | styrene | 6.730 | 104 | 240362 | 21.48 | ug/L | 95 |
| 93) | bromoform | 6.865 | 173 | 60514 | 19.51 | ug/L | 98 |
| 94) | isopropylbenzene | 6.958 | 105 | 362523 | 20.89 | ug/L | 98 |
| 95) | cis-1,4-dichloro-2-butene | 6.987 | 88 | 27688 | 18.44 | ug/L | 91 |
| 98) | bromobenzene | 7.192 | 156 | 91822 | 20.96 | ug/L | 96 |
| 99) | 1,1,2,2-tetrachloroethane | 7.154 | 83 | 111563 | 19.36 | ug/L | 98 |
| 100) | trans-1,4-dichloro-2-b... | 7.180 | 53 | 21916 | 19.23 | ug/L | 84 |
| 101) | 1,2,3-trichloropropane | 7.202 | 110 | 35848 | 20.42 | ug/L | 94 |
| 102) | n-propylbenzene | 7.234 | 91 | 401433 | 20.77 | ug/L | 100 |
| 103) | 2-chlorotoluene | 7.311 | 126 | 84042 | 20.86 | ug/L | 96 |
| 104) | 4-chlorotoluene | 7.388 | 126 | 83448 | 20.38 | ug/L | 94 |
| 105) | 1,3,5-trimethylbenzene | 7.346 | 105 | 273039 | 20.88 | ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226430.d
Acq On : 27 Sep 2022 9:36 am
Operator : nickw
Sample : CCC9688-20 Inst : MSDTEST1A
Misc : MS62471, V1A9698,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 16:26:32 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration

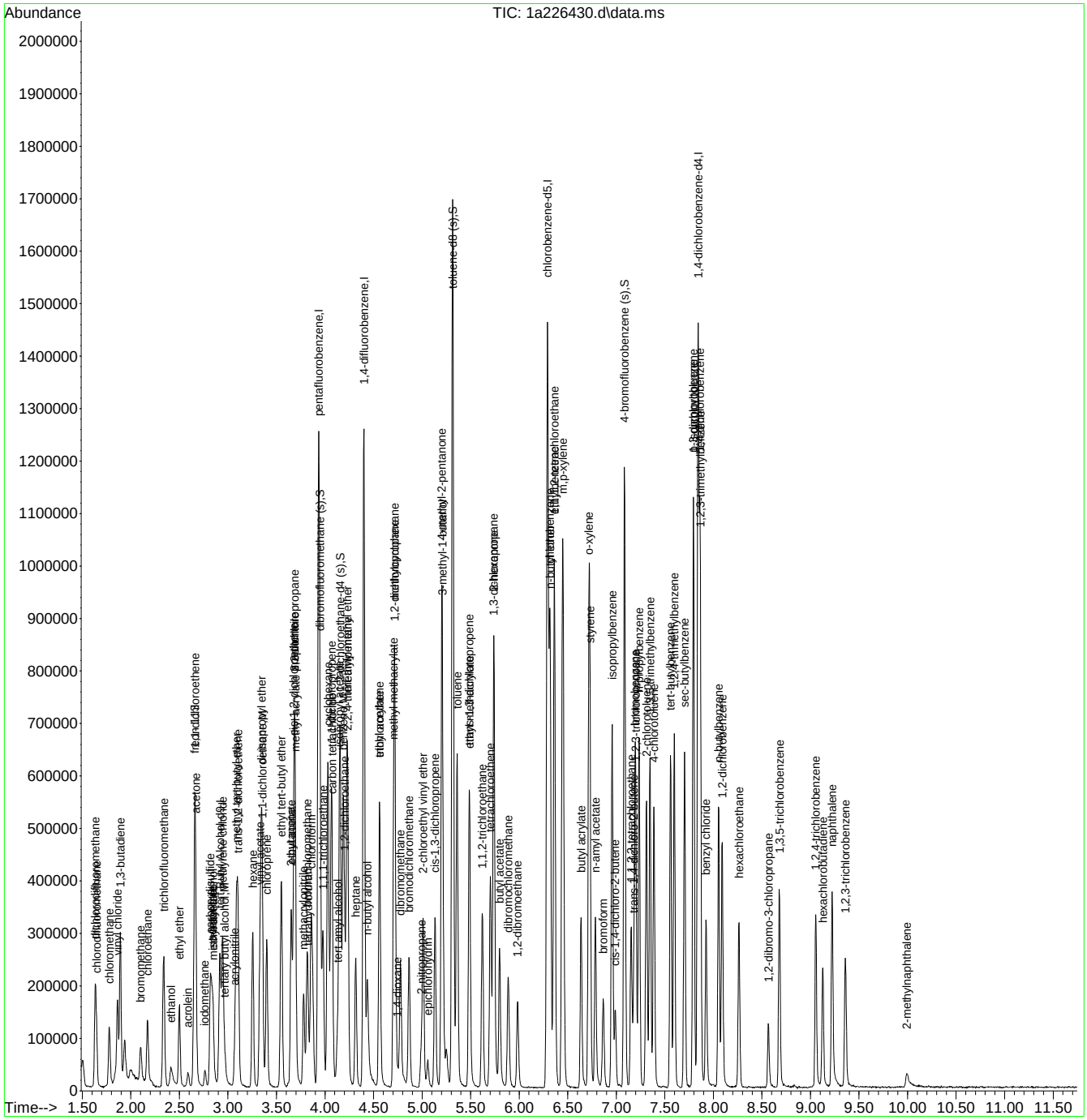
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) tert-butylbenzene | 7.558 | 119 | 241493 | 21.17 | ug/L | 97 |
| 107) 1,2,4-trimethylbenzene | 7.597 | 105 | 278474 | 21.14 | ug/L | 99 |
| 108) sec-butylbenzene | 7.703 | 105 | 336130 | 21.18 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.796 | 146 | 151911 | 21.10 | ug/L | 96 |
| 110) p-isopropyltoluene | 7.796 | 119 | 284637 | 22.11 | ug/L | 99 |
| 111) 1,2,3-trimethylbenzene | 7.866 | 105 | 276030 | 20.69 | ug/L | 97 |
| 112) 1,4-dichlorobenzene | 7.860 | 146 | 156636 | 20.45 | ug/L | 99 |
| 113) 1,2-dichlorobenzene | 8.091 | 146 | 145710 | 21.16 | ug/L | 98 |
| 114) n-butylbenzene | 8.052 | 92 | 127464 | 22.68 | ug/L | 93 |
| 115) 1,2-dibromo-3-chloropr... | 8.569 | 157 | 26190 | 20.54 | ug/L | 77 |
| 116) 1,3,5-trichlorobenzene | 8.681 | 180 | 92081 | 22.30 | ug/L | 95 |
| 117) 1,2,4-trichlorobenzene | 9.054 | 180 | 77957 | 22.94 | ug/L | 96 |
| 118) hexachlorobutadiene | 9.127 | 225 | 27194 | 21.66 | ug/L | 95 |
| 119) naphthalene | 9.224 | 128 | 251459 | 21.07 | ug/L | 99 |
| 120) 1,2,3-trichlorobenzene | 9.358 | 180 | 61858 | 21.05 | ug/L | 91 |
| 121) hexachloroethane | 8.264 | 119 | 42920 | 21.20 | ug/L | 97 |
| 122) benzyl chloride | 7.924 | 91 | 173415 | 26.70 | ug/L | 98 |
| 123) 2-methylnaphthalene | 9.991 | 142 | 19160 | 8.19 | ug/L | 86 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\September\09-28-22\v1a9698\
Data File : 1a226430.d
Acq On : 27 Sep 2022 9:36 am
Operator : nickw
Sample : CCC9688-20 Inst : MSDTEST1A
Misc : MS62471, V1A9698,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Sep 27 16:26:32 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Wed Sep 21 12:03:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226605.d
Acq On : 30 Sep 2022 10:42 am
Operator : nickw
Sample : CC9688-20 Inst : MSDTEST1A
Misc : MS62579, V1A9705,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 07:23:25 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert Butyl Alcohol-d9 | 2.915 | 65 | 253903 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.932 | 168 | 489763 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.398 | 114 | 719250 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 6.291 | 117 | 626257 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.841 | 152 | 250966 | 50.00 | ug/L | | 0.00 |
| 124) pentafluorobenzene(a) | 3.932 | 168 | 489763 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 7.841 | 152 | 250966 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 3.948 | 113 | 209754 | 48.60 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.20% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.157 | 65 | 258904 | 51.98 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 103.96% | | | | |
| 73) toluene-d8 (s) | 5.312 | 98 | 828131 | 49.16 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.32% | | | | |
| 97) 4-bromofluorobenzene (s) | 7.083 | 95 | 255637 | 49.09 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.18% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 4.744 | 88 | 17552 | 471.55 | ug/L | | 96 |
| 3) ethanol | 2.415 | 45 | 68276 | 2167.69 | ug/L | | 98 |
| 4) tertiary butyl alcohol | 2.963 | 59 | 59757 | 102.67 | ug/L | | 95 |
| 6) chlorodifluoromethane | 1.641 | 51 | 50203 | 12.14 | ug/L | | 86 |
| 7) dichlorodifluoromethane | 1.632 | 85 | 116774 | 19.26 | ug/L | | 99 |
| 8) chloromethane | 1.779 | 50 | 87880 | 20.44 | ug/L | | 94 |
| 9) vinyl chloride | 1.863 | 62 | 127538 | 21.28 | ug/L | | 98 |
| 10) 1,3-butadiene | 1.891 | 54 | 68077 | 12.87 | ug/L | | 99 |
| 11) bromomethane | 2.097 | 96 | 36844 | 21.58 | ug/L | | 91 |
| 12) chloroethane | 2.171 | 64 | 86058 | 21.69 | ug/L | | 98 |
| 13) trichlorofluoromethane | 2.334 | 101 | 167299 | 22.93 | ug/L | | 99 |
| 14) ethyl ether | 2.498 | 74 | 48761 | 21.03 | ug/L | | 91 |
| 15) acrolein | 2.588 | 56 | 15749 | 20.61 | ug/L | | 88 |
| 16) freon 113 | 2.655 | 151 | 63921 | 20.85 | ug/L | | 90 |
| 17) 1,1-dichloroethene | 2.665 | 96 | 67156 | 19.70 | ug/L | | 96 |
| 18) acetone | 2.668 | 58 | 37515 | 87.14 | ug/L | | 96 |
| 19) acetonitrile | 2.835 | 40 | 63365 | 215.53 | ug/L | | 99 |
| 20) iodomethane | 2.764 | 142 | 33649 | 18.52 | ug/L | | 96 |
| 21) iso-butyl alcohol | 2.845 | 43 | 78340 | 205.23 | ug/L | | 98 |
| 22) carbon disulfide | 2.819 | 76 | 178500 | 17.53 | ug/L | | 99 |
| 23) methylene chloride | 2.944 | 84 | 80647 | 20.16 | ug/L | | 97 |
| 24) methyl acetate | 2.845 | 74 | 19877 | 20.93 | ug/L | | 93 |
| 25) methyl tert butyl ether | 3.085 | 73 | 249195 | 20.87 | ug/L | | 99 |
| 26) trans-1,2-dichloroethene | 3.104 | 96 | 77383 | 21.25 | ug/L | | 96 |
| 27) hexane | 3.255 | 57 | 89073 | 18.61 | ug/L | | 98 |
| 28) di-isopropyl ether | 3.345 | 45 | 240212 | 21.65 | ug/L | | 97 |
| 29) ethyl tert-butyl ether | 3.547 | 59 | 233679 | 20.34 | ug/L | | 98 |
| 30) 2-butanone | 3.650 | 72 | 53880 | 79.90 | ug/L | # | 88 |
| 31) 1,1-dichloroethane | 3.355 | 63 | 140012 | 21.02 | ug/L | | 94 |
| 32) chloroprene | 3.400 | 53 | 110657 | 20.99 | ug/L | | 96 |
| 33) acrylonitrile | 3.066 | 53 | 32982 | 18.27 | ug/L | | 98 |
| 34) vinyl acetate | 3.329 | 86 | 19373 | 20.91 | ug/L | # | 93 |
| 35) ethyl acetate | 3.656 | 45 | 17070 | 21.49 | ug/L | | 77 |
| 36) 2,2-dichloropropane | 3.688 | 77 | 116932 | 25.16 | ug/L | | 96 |
| 37) cis-1,2-dichloroethene | 3.676 | 96 | 87849 | 21.49 | ug/L | | 97 |
| 38) propionitrile | 3.688 | 54 | 148253 | 209.09 | ug/L | | 92 |
| 39) methyl acrylate | 3.692 | 85 | 19316 | 21.34 | ug/L | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226605.d
Acq On : 30 Sep 2022 10:42 am
Operator : nickw
Sample : CC9688-20 Inst : MSDTEST1A
Misc : MS62579, V1A9705,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 07:23:25 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 40) bromochloromethane | 3.817 | 128 | 42951 | 20.66 | ug/L | | 96 |
| 41) tetrahydrofuran | 3.830 | 72 | 17320 | 20.33 | ug/L | | 84 |
| 42) chloroform | 3.855 | 83 | 150600 | 20.31 | ug/L | | 97 |
| 44) methacrylonitrile | 3.778 | 67 | 45568 | 20.80 | ug/L | | 94 |
| 45) 1,1,1-trichloroethane | 3.980 | 97 | 127230 | 20.81 | ug/L | | 97 |
| 46) cyclohexane | 4.029 | 84 | 119001 | 20.59 | ug/L | | 93 |
| 47) 1,1-dichloropropene | 4.064 | 75 | 107738 | 20.25 | ug/L | | 98 |
| 48) carbon tetrachloride | 4.070 | 117 | 112972 | 21.52 | ug/L | | 97 |
| 49) isopropyl acetate | 4.147 | 87 | 23273 | 20.54 | ug/L | # | 85 |
| 50) tert amyl alcohol | 4.131 | 55 | 20438 | 94.51 | ug/L | # | 82 |
| 53) tert-amyl methyl ether | 4.224 | 73 | 235437 | 19.91 | ug/L | | 97 |
| 54) 2,2,4-trimethylpentane | 4.231 | 57 | 152547 | 16.17 | ug/L | | 97 |
| 55) n-butyl alcohol | 4.436 | 56 | 107133 | 928.58 | ug/L | | 95 |
| 56) benzene | 4.186 | 78 | 315209 | 21.21 | ug/L | | 99 |
| 57) heptane | 4.317 | 57 | 29949 | 16.35 | ug/L | | 88 |
| 58) 1,2-dichloroethane | 4.202 | 62 | 116139 | 21.41 | ug/L | | 99 |
| 59) trichloroethene | 4.561 | 95 | 84351 | 21.32 | ug/L | | 96 |
| 60) ethyl acrylate | 4.561 | 55 | 125273 | 21.19 | ug/L | | 96 |
| 61) 2-nitropropane | 4.988 | 41 | 31136 | 18.38 | ug/L | | 92 |
| 62) 2-chloroethyl vinyl ether | 5.011 | 63 | 27247 | 30.75 | ug/L | | 92 |
| 63) methyl methacrylate | 4.706 | 100 | 29366 | 21.60 | ug/L | # | 84 |
| 64) 1,2-dichloropropane | 4.719 | 63 | 79443 | 20.86 | ug/L | | 97 |
| 65) methylcyclohexane | 4.715 | 83 | 110503 | 18.19 | ug/L | | 99 |
| 66) dibromomethane | 4.773 | 93 | 57690 | 21.00 | ug/L | | 93 |
| 67) bromodichloromethane | 4.866 | 83 | 115818 | 20.65 | ug/L | | 98 |
| 68) cis-1,3-dichloropropene | 5.129 | 75 | 134512 | 21.81 | ug/L | | 97 |
| 69) epichlorohydrin | 5.059 | 57 | 25552 | 91.42 | ug/L | | 89 |
| 70) 4-methyl-2-pentanone | 5.203 | 58 | 166212 | 83.77 | ug/L | | 93 |
| 71) 3-methyl-1-butanol | 5.210 | 70 | 45954 | 351.11 | ug/L | | 92 |
| 74) toluene | 5.360 | 92 | 198746 | 21.67 | ug/L | | 96 |
| 75) trans-1,3-dichloropropene | 5.485 | 75 | 118315 | 22.40 | ug/L | | 96 |
| 76) ethyl methacrylate | 5.489 | 69 | 121812 | 22.29 | ug/L | | 97 |
| 77) 1,1,2-trichloroethane | 5.620 | 83 | 65556 | 20.52 | ug/L | | 95 |
| 78) 2-hexanone | 5.742 | 58 | 160539 | 82.59 | ug/L | | 96 |
| 79) tetrachloroethene | 5.704 | 166 | 82671 | 21.29 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 5.736 | 76 | 130394 | 21.15 | ug/L | | 99 |
| 81) butyl acetate | 5.797 | 56 | 59754 | 21.95 | ug/L | | 100 |
| 82) dibromochloromethane | 5.887 | 129 | 90022 | 20.62 | ug/L | | 97 |
| 83) 1,2-dibromoethane | 5.983 | 107 | 86653 | 21.12 | ug/L | | 98 |
| 84) n-butyl ether | 6.320 | 57 | 291255 | 21.73 | ug/L | | 96 |
| 85) chlorobenzene | 6.313 | 112 | 210286 | 20.29 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 6.362 | 131 | 75273 | 21.15 | ug/L | | 96 |
| 87) ethylbenzene | 6.362 | 91 | 355524 | 20.54 | ug/L | | 99 |
| 88) m,p-xylene | 6.448 | 106 | 268953 | 41.77 | ug/L | | 97 |
| 89) o-xylene | 6.718 | 106 | 135740 | 21.16 | ug/L | | 98 |
| 90) butyl acrylate | 6.637 | 55 | 158806 | 22.56 | ug/L | | 99 |
| 91) n-amyl acetate | 6.782 | 70 | 59463 | 21.39 | ug/L | | 94 |
| 92) styrene | 6.727 | 104 | 232343 | 22.18 | ug/L | | 97 |
| 93) bromoform | 6.865 | 173 | 59295 | 20.41 | ug/L | | 98 |
| 94) isopropylbenzene | 6.958 | 105 | 326866 | 20.11 | ug/L | | 98 |
| 95) cis-1,4-dichloro-2-butene | 6.987 | 88 | 26332 | 18.72 | ug/L | | 90 |
| 98) bromobenzene | 7.193 | 156 | 84707 | 21.16 | ug/L | | 99 |
| 99) 1,1,2,2-tetrachloroethane | 7.151 | 83 | 106261 | 20.18 | ug/L | | 97 |
| 100) trans-1,4-dichloro-2-b... | 7.180 | 53 | 19699 | 18.91 | ug/L | | 97 |
| 101) 1,2,3-trichloropropane | 7.202 | 110 | 32422 | 20.20 | ug/L | | 96 |
| 102) n-propylbenzene | 7.234 | 91 | 355020 | 20.10 | ug/L | | 98 |
| 103) 2-chlorotoluene | 7.308 | 126 | 73402 | 19.93 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226605.d
Acq On : 30 Sep 2022 10:42 am
Operator : nickw
Sample : CC9688-20 Inst : MSDTEST1A
Misc : MS62579, V1A9705,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 07:23:25 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration

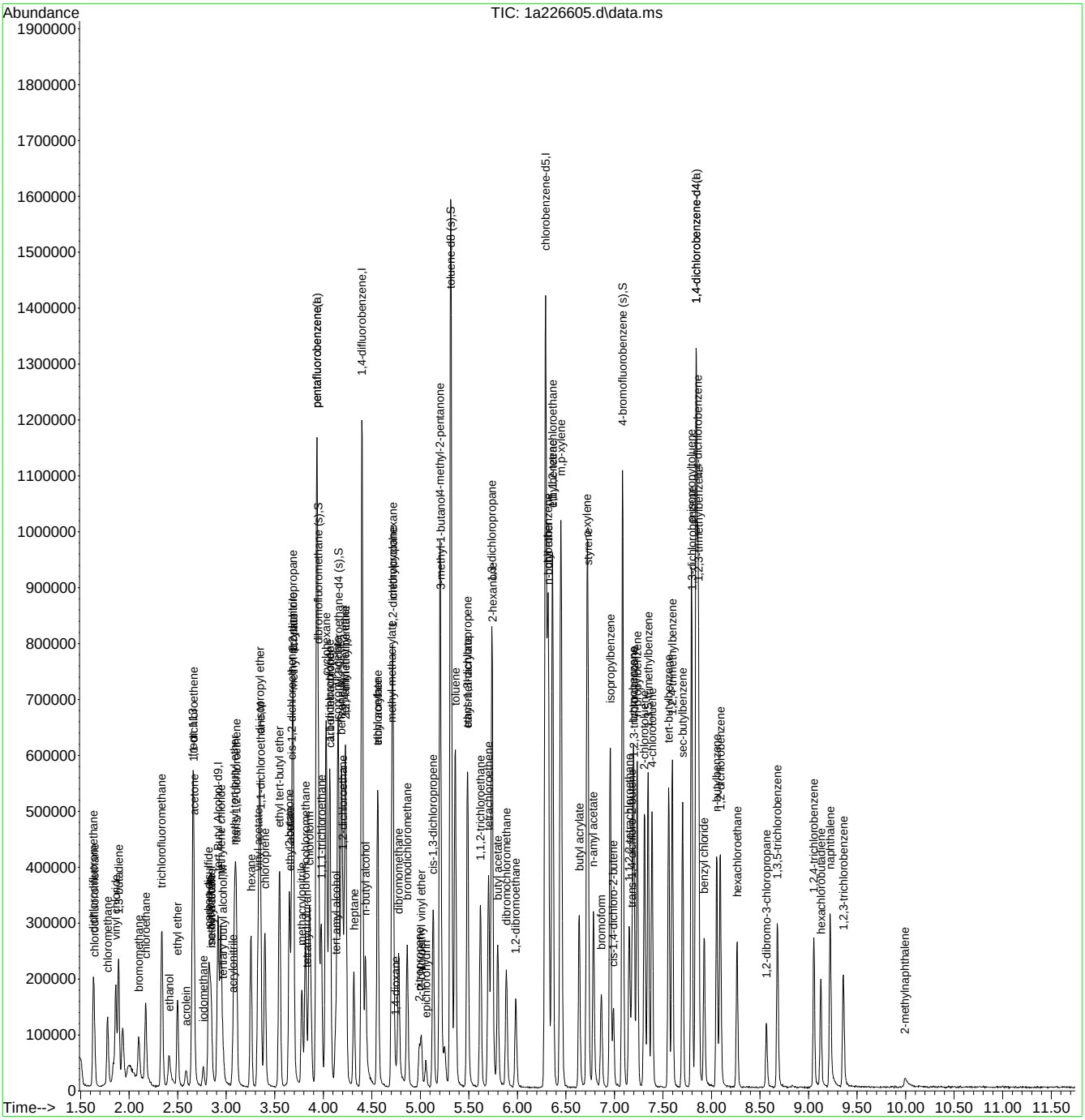
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) 4-chlorotoluene | 7.388 | 126 | 77644 | 20.75 | ug/L | 91 |
| 105) 1,3,5-trimethylbenzene | 7.347 | 105 | 236116 | 19.76 | ug/L | 96 |
| 106) tert-butylbenzene | 7.558 | 119 | 196730 | 18.87 | ug/L | 99 |
| 107) 1,2,4-trimethylbenzene | 7.597 | 105 | 237752 | 19.75 | ug/L | 99 |
| 108) sec-butylbenzene | 7.703 | 105 | 269544 | 18.58 | ug/L | 100 |
| 109) 1,3-dichlorobenzene | 7.799 | 146 | 134868 | 20.49 | ug/L | 99 |
| 110) p-isopropyltoluene | 7.793 | 119 | 228209 | 19.39 | ug/L | 97 |
| 111) 1,2,3-trimethylbenzene | 7.866 | 105 | 243298 | 19.96 | ug/L | 97 |
| 112) 1,4-dichlorobenzene | 7.857 | 146 | 138236 | 19.75 | ug/L | 97 |
| 113) 1,2-dichlorobenzene | 8.091 | 146 | 129593 | 20.59 | ug/L | 99 |
| 114) n-butylbenzene | 8.053 | 92 | 98479 | 19.17 | ug/L | 99 |
| 115) 1,2-dibromo-3-chloropr... | 8.566 | 157 | 23848 | 20.47 | ug/L | 95 |
| 116) 1,3,5-trichlorobenzene | 8.678 | 180 | 73039 | 19.35 | ug/L | 100 |
| 117) 1,2,4-trichlorobenzene | 9.054 | 180 | 59127 | 19.04 | ug/L | 97 |
| 118) hexachlorobutadiene | 9.128 | 225 | 22051 | 19.22 | ug/L | 87 |
| 119) naphthalene | 9.224 | 128 | 213850 | 19.60 | ug/L | 99 |
| 120) 1,2,3-trichlorobenzene | 9.359 | 180 | 49820 | 18.55 | ug/L | 96 |
| 121) hexachloroethane | 8.264 | 119 | 33429 | 18.06 | ug/L | 93 |
| 122) benzyl chloride | 7.924 | 91 | 151154 | 25.46 | ug/L | 99 |
| 123) 2-methylnaphthalene | 9.991 | 142 | 15023 | 7.23 | ug/L | 90 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\october\10-03-22\v1a9705\
Data File : 1a226605.d
Acq On : 30 Sep 2022 10:42 am
Operator : nickw
Sample : CC9688-20 Inst : MSDTEST1A
Misc : MS62579, V1A9705,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1A9688.M
Quant Results File: M1A9688.RES
Quant Time: Oct 03 07:23:25 2022
Quant Title : SW846 Method V8260C/D and EPA 624.1, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Sep 29 14:48:46 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200548.D
Acq On : 28 Sep 2022 9:15 pm
Operator : PrashanS
Sample : IC8636-0.2
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 13:50:55 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 348975 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 393791 | 50.00 | ug/L | | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 552425 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 6.08 | 117 | 504410 | 50.00 | ug/L | | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.89 | 152 | 247386 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 182448 | 49.33 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.66% | | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 208890 | 50.87 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.74% | | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 605292 | 50.60 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.20% | | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 218369 | 51.57 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.14% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 6) chlorodifluoromethane | 1.25 | 51 | 748 | 0.23 | ug/L | | 66 |
| 12) trichlorofluoromethane | 1.86 | 101 | 878 | 0.18 | ug/L | | 92 |
| 16) 1,1-dichloroethene | 2.17 | 96 | 392 | 0.17 | ug/L | | 83 |
| 17) freon 113 | 2.17 | 101 | 493 | 0.18 | ug/L | | 93 |
| 24) methyl tert butyl ether | 2.60 | 73 | 1279 | 0.20 | ug/L | | 92 |
| 27) hexane | 2.77 | 57 | 865 | 0.23 | ug/L | | 86 |
| 28) di-isopropyl ether | 2.87 | 45 | 1549 | 0.19 | ug/L | | 94 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 745 | 0.18 | ug/L | | 79 |
| 31) chloroprene | 2.92 | 53 | 770 | 0.19 | ug/L | | 73 |
| 33) ethyl tert-butyl ether | 3.09 | 59 | 1475 | 0.20 | ug/L | | 97 |
| 35) 2,2-dichloropropane | 3.22 | 77 | 745 | 0.22 | ug/L | | 79 |
| 38) propionitrile | 3.23 | 54 | 1166 | 1.95 | ug/L | | 83 |
| 40) bromochloromethane | 3.36 | 128 | 311 | 0.24 | ug/L | | 94 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 877 | 0.21 | ug/L | # | 1 |
| 46) cyclohexane | 3.58 | 84 | 799 | 0.21 | ug/L | # | 68 |
| 48) 1,1-dichloropropene | 3.62 | 75 | 743 | 0.22 | ug/L | | 81 |
| 50) carbon tetrachloride | 3.62 | 117 | 791 | 0.21 | ug/L | | 97 |
| 54) iso-octane | 3.82 | 57 | 1682 | 0.22 | ug/L | | 88 |
| 57) benzene | 3.75 | 78 | 2285 | 0.25 | ug/L | | 97 |
| 58) tert-amyl methyl ether | 3.82 | 73 | 1179 | 0.18 | ug/L | | 91 |
| 59) heptane | 3.91 | 57 | 283 | 0.21 | ug/L | # | 84 |
| 62) ethyl acrylate | 4.19 | 55 | 682 | 0.17 | ug/L | | 72 |
| 68) methylcyclohexane | 4.33 | 83 | 774 | 0.19 | ug/L | | 91 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 867 | 0.64 | ug/L | | 97 |
| 78) 1,1,2-trichloroethane | 5.35 | 83 | 359 | 0.21 | ug/L | # | 75 |
| 79) tetrachloroethene | 5.42 | 164 | 527 | 0.23 | ug/L | | 95 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 768 | 0.24 | ug/L | | 98 |
| 81) 2-hexanone | 5.49 | 58 | 901 | 0.66 | ug/L | | 93 |
| 82) butyl acetate | 5.57 | 56 | 429 | 0.23 | ug/L | # | 80 |
| 83) dibromochloromethane | 5.64 | 129 | 461 | 0.18 | ug/L | | 76 |
| 85) n-butyl ether | 6.15 | 57 | 1846 | 0.20 | ug/L | | 92 |
| 88) ethylbenzene | 6.17 | 91 | 2440 | 0.23 | ug/L | | 87 |
| 89) m,p-xylene | 6.27 | 106 | 1748 | 0.41 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200548.D
Acq On : 28 Sep 2022 9:15 pm
Operator : PrashanS
Sample : IC8636-0.2
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 13:50:55 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

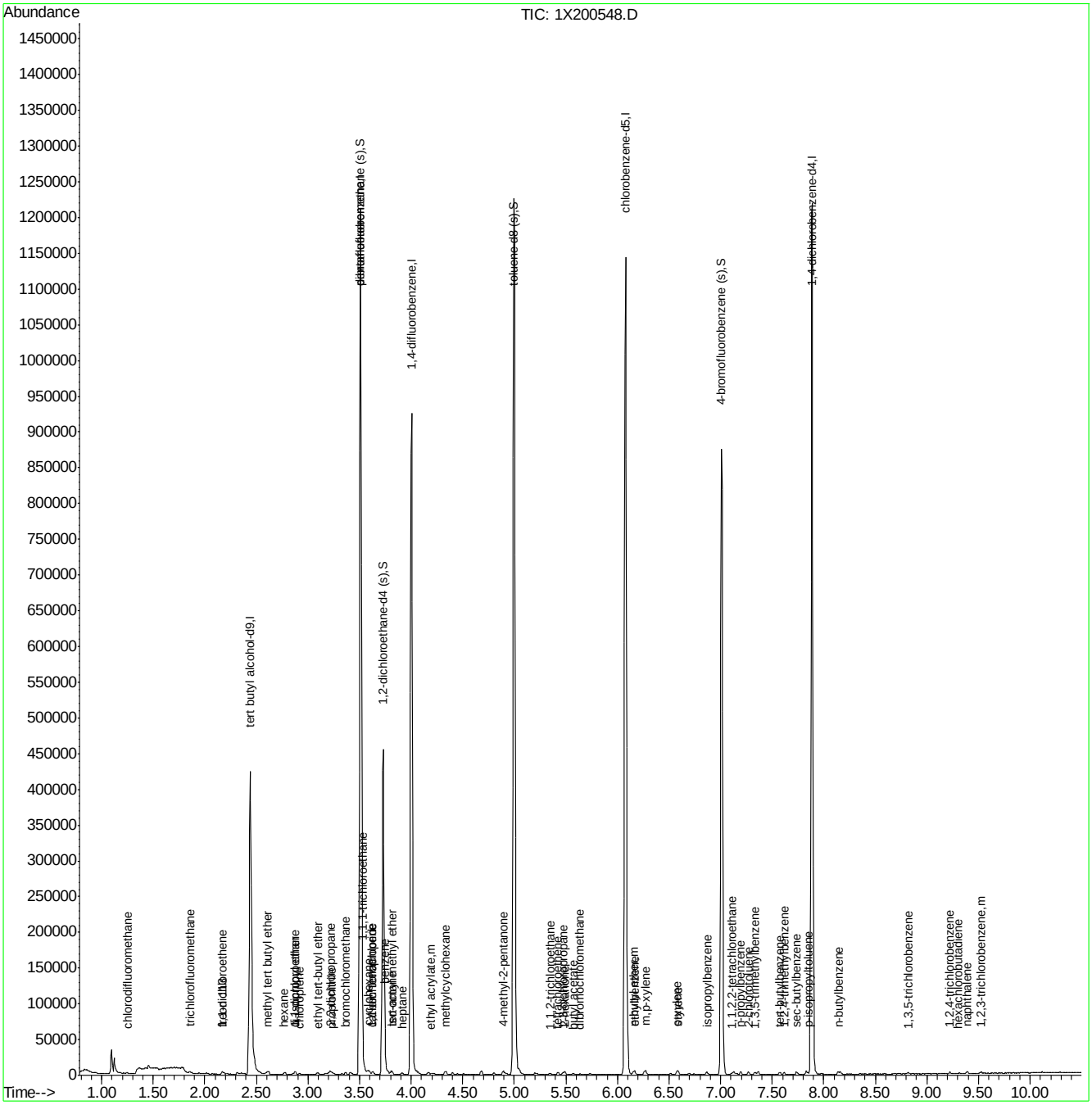
| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 90) o-xylene | 6.58 | 91 | 1621 | 0.20 | ug/L | | 88 |
| 91) styrene | 6.59 | 104 | 1642 | 0.24 | ug/L | | 91 |
| 95) isopropylbenzene | 6.86 | 105 | 2137 | 0.20 | ug/L | | 97 |
| 100) 1,1,2,2-tetrachloroethane | 7.11 | 83 | 453 | 0.16 | ug/L | | 95 |
| 103) n-propylbenzene | 7.19 | 91 | 2577 | 0.23 | ug/L | | 99 |
| 104) 2-chlorotoluene | 7.27 | 126 | 448 | 0.18 | ug/L | # | 84 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 1428 | 0.19 | ug/L | | 89 |
| 107) tert-butylbenzene | 7.57 | 119 | 1489 | 0.20 | ug/L | | 90 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 1596 | 0.21 | ug/L | | 100 |
| 109) sec-butylbenzene | 7.73 | 105 | 2010 | 0.20 | ug/L | | 95 |
| 111) p-isopropyltoluene | 7.85 | 119 | 1680 | 0.19 | ug/L | | 94 |
| 115) n-butylbenzene | 8.13 | 92 | 804 | 0.21 | ug/L | | 84 |
| 117) 1,3,5-trichlorobenzene | 8.82 | 180 | 653 | 0.22 | ug/L | | 85 |
| 118) hexachlorobutadiene | 9.30 | 225 | 193 | 0.18 | ug/L | # | 49 |
| 119) naphthalene | 9.39 | 128 | 2329 | 0.24 | ug/L | | 81 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 575 | 0.22 | ug/L | # | 71 |
| 121) 1,2,3-trichlorobenzene | 9.53 | 180 | 539 | 0.21 | ug/L | | 86 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200548.D
Acq On : 28 Sep 2022 9:15 pm
Operator : PrashanS
Sample : IC8636-0.2
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 29 13:50:55 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200550.D
Acq On : 28 Sep 2022 9:47 pm
Operator : PrashanS
Sample : IC8636-0.5
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 29 13:52:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 344022 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 387430 | 50.00 | ug/L | | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 545173 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 6.08 | 117 | 510604 | 50.00 | ug/L | | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.89 | 152 | 252825 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 184543 | 50.72 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.44% | | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 211686 | 52.23 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 104.46% | | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 608329 | 50.24 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.48% | | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 222341 | 51.38 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.76% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 6) chlorodifluoromethane | 1.26 | 51 | 1749 | 0.55 | ug/L | | 89 |
| 7) dichlorodifluoromethane | 1.24 | 85 | 1460 | 0.46 | ug/L | | 94 |
| 9) vinyl chloride | 1.44 | 62 | 1847 | 0.52 | ug/L | | 95 |
| 12) trichlorofluoromethane | 1.87 | 101 | 2028 | 0.42 | ug/L | | 94 |
| 14) ethyl ether | 2.03 | 74 | 545 | 0.47 | ug/L | # | 65 |
| 16) 1,1-dichloroethene | 2.18 | 96 | 1138 | 0.51 | ug/L | | 96 |
| 17) freon 113 | 2.17 | 101 | 1350 | 0.50 | ug/L | | 92 |
| 18) acetone | 2.19 | 58 | 853 | 2.37 | ug/L | # | 67 |
| 21) carbon disulfide | 2.32 | 76 | 2774 | 0.49 | ug/L | | 97 |
| 22) methylene chloride | 2.47 | 84 | 1051 | 0.50 | ug/L | # | 81 |
| 24) methyl tert butyl ether | 2.61 | 73 | 3034 | 0.47 | ug/L | | 99 |
| 25) acrylonitrile | 2.59 | 53 | 647 | 0.45 | ug/L | | 98 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 1173 | 0.50 | ug/L | | 97 |
| 27) hexane | 2.78 | 57 | 1847 | 0.50 | ug/L | | 88 |
| 28) di-isopropyl ether | 2.88 | 45 | 4075 | 0.51 | ug/L | | 93 |
| 29) 2-butanone | 3.20 | 72 | 725 | 1.66 | ug/L | | 98 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 2038 | 0.50 | ug/L | | 95 |
| 31) chloroprene | 2.93 | 53 | 1637 | 0.40 | ug/L | | 97 |
| 33) ethyl tert-butyl ether | 3.10 | 59 | 3264 | 0.45 | ug/L | | 91 |
| 34) ethyl acetate | 3.21 | 45 | 343 | 0.52 | ug/L | # | 25 |
| 35) 2,2-dichloropropane | 3.23 | 77 | 1714 | 0.51 | ug/L | | 95 |
| 36) cis-1,2-dichloroethene | 3.22 | 96 | 1350 | 0.53 | ug/L | | 87 |
| 37) methyl acrylate | 3.25 | 55 | 1757 | 0.44 | ug/L | | 90 |
| 38) propionitrile | 3.24 | 54 | 2760 | 4.69 | ug/L | # | 60 |
| 39) tert-butyl formate | 3.43 | 59 | 712 | 0.43 | ug/L | | 83 |
| 40) bromochloromethane | 3.37 | 128 | 676 | 0.53 | ug/L | | 82 |
| 42) chloroform | 3.42 | 83 | 2416 | 0.59 | ug/L | | 94 |
| 44) methacrylonitrile | 3.34 | 67 | 595 | 0.46 | ug/L | | 86 |
| 45) 1,1,1-trichloroethane | 3.54 | 97 | 2025 | 0.50 | ug/L | # | 1 |
| 46) cyclohexane | 3.59 | 84 | 1755 | 0.48 | ug/L | | 92 |
| 47) tert amyl alcohol | 3.73 | 55 | 535 | 2.57 | ug/L | # | 62 |
| 48) 1,1-dichloropropene | 3.63 | 75 | 1544 | 0.46 | ug/L | | 94 |
| 50) carbon tetrachloride | 3.63 | 117 | 1687 | 0.45 | ug/L | | 91 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200550.D
Acq On : 28 Sep 2022 9:47 pm
Operator : PrashanS
Sample : IC8636-0.5
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 29 13:52:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 51) isopropyl acetate | 3.75 | 87 | 259 | 0.41 ug/L | # | 25 |
| 54) iso-octane | 3.81 | 57 | 3957 | 0.53 ug/L | | 94 |
| 55) epichlorohydrin | 4.72 | 57 | 794 | 1.92 ug/L | | 80 |
| 56) n-butyl alcohol | 4.06 | 56 | 2312 | 16.86 ug/L | | 89 |
| 57) benzene | 3.75 | 78 | 4276 | 0.48 ug/L | | 100 |
| 58) tert-amyl methyl ether | 3.82 | 73 | 2717 | 0.42 ug/L | | 93 |
| 59) heptane | 3.91 | 57 | 603 | 0.45 ug/L | | 88 |
| 61) trichloroethene | 4.17 | 130 | 1396 | 0.48 ug/L | | 92 |
| 62) ethyl acrylate | 4.20 | 55 | 1812 | 0.45 ug/L | | 82 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 3456 | 2.02 ug/L | | 94 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 406 | 0.43 ug/L | # | 83 |
| 67) dibromomethane | 4.40 | 93 | 905 | 0.60 ug/L | # | 74 |
| 68) methylcyclohexane | 4.33 | 83 | 1933 | 0.49 ug/L | | 86 |
| 69) bromodichloromethane | 4.50 | 83 | 1284 | 0.45 ug/L | | 73 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 1354 | 0.40 ug/L | | 93 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 2395 | 1.79 ug/L | | 90 |
| 75) toluene | 5.05 | 92 | 2709 | 0.48 ug/L | | 98 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 1339 | 0.43 ug/L | | 98 |
| 77) ethyl methacrylate | 5.23 | 69 | 1260 | 0.42 ug/L | # | 85 |
| 78) 1,1,2-trichloroethane | 5.35 | 83 | 774 | 0.44 ug/L | | 95 |
| 79) tetrachloroethene | 5.43 | 164 | 968 | 0.42 ug/L | | 84 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 1548 | 0.47 ug/L | | 91 |
| 81) 2-hexanone | 5.49 | 58 | 2530 | 1.83 ug/L | | 99 |
| 82) butyl acetate | 5.57 | 56 | 902 | 0.47 ug/L | # | 61 |
| 83) dibromochloromethane | 5.64 | 129 | 974 | 0.38 ug/L | | 88 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 1062 | 0.43 ug/L | | 98 |
| 85) n-butyl ether | 6.15 | 57 | 4381 | 0.46 ug/L | | 95 |
| 86) chlorobenzene | 6.10 | 112 | 3103 | 0.49 ug/L | | 82 |
| 88) ethylbenzene | 6.17 | 91 | 5149 | 0.48 ug/L | | 93 |
| 89) m,p-xylene | 6.27 | 106 | 4048 | 0.95 ug/L | | 97 |
| 90) o-xylene | 6.58 | 91 | 3780 | 0.46 ug/L | | 98 |
| 91) styrene | 6.59 | 104 | 3123 | 0.45 ug/L | | 88 |
| 92) butyl acrylate | 6.52 | 55 | 2141 | 0.42 ug/L | | 90 |
| 93) n-amyl acetate | 6.69 | 70 | 676 | 0.40 ug/L | # | 65 |
| 95) isopropylbenzene | 6.86 | 105 | 5086 | 0.47 ug/L | | 98 |
| 99) bromobenzene | 7.13 | 156 | 1454 | 0.51 ug/L | | 80 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 1229 | 0.41 ug/L | | 86 |
| 102) 1,2,3-trichloropropane | 7.16 | 110 | 396 | 0.41 ug/L | # | 73 |
| 103) n-propylbenzene | 7.19 | 91 | 5462 | 0.47 ug/L | | 94 |
| 104) 2-chlorotoluene | 7.27 | 126 | 1257 | 0.48 ug/L | | 86 |
| 105) 4-chlorotoluene | 7.37 | 91 | 3238 | 0.48 ug/L | | 99 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 3495 | 0.45 ug/L | | 96 |
| 107) tert-butylbenzene | 7.57 | 119 | 3576 | 0.48 ug/L | | 98 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 3591 | 0.47 ug/L | | 90 |
| 109) sec-butylbenzene | 7.74 | 105 | 4769 | 0.46 ug/L | | 90 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 2627 | 0.52 ug/L | | 99 |
| 111) p-isopropyltoluene | 7.85 | 119 | 4083 | 0.46 ug/L | | 89 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 2861 | 0.55 ug/L | | 93 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 2285 | 0.47 ug/L | | 97 |
| 115) n-butylbenzene | 8.13 | 92 | 1557 | 0.40 ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200550.D
Acq On : 28 Sep 2022 9:47 pm
Operator : PrashanS
Sample : IC8636-0.5
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 29 13:52:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

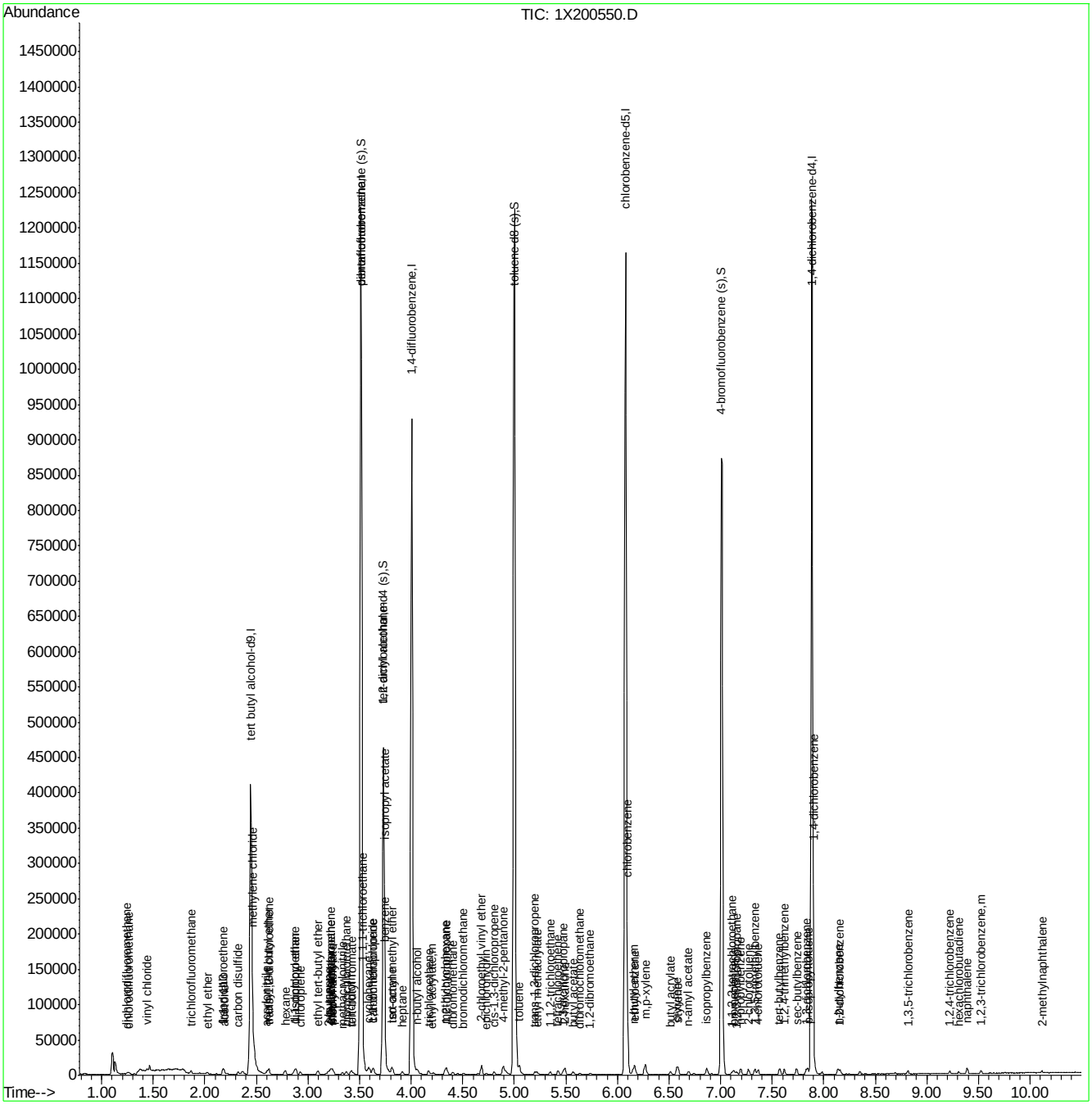
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 117) 1,3,5-trichlorobenzene | 8.82 | 180 | 1412 | 0.46 | ug/L | 87 |
| 118) hexachlorobutadiene | 9.31 | 225 | 493 | 0.45 | ug/L | 98 |
| 119) naphthalene | 9.39 | 128 | 4619 | 0.47 | ug/L | 96 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 1199 | 0.45 | ug/L | 89 |
| 121) 1,2,3-trichlorobenzene | 9.53 | 180 | 1248 | 0.48 | ug/L | 92 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 1193 | 0.22 | ug/L | 95 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200550.D
Acq On : 28 Sep 2022 9:47 pm
Operator : PrashanS
Sample : IC8636-0.5
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 29 13:52:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200552.D
Acq On : 28 Sep 2022 10:23 pm
Operator : PrashanS
Sample : IC8636-1
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 29 13:54:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 360242 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 388987 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 545443 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.08 | 117 | 512993 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 256528 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 184869 | 50.61 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.22% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 210855 | 52.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 104.00% | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 613113 | 50.40 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.80% | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 224494 | 51.13 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.26% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 1.95 | 45 | 4664 | 142.74 | ug/L | 97 |
| 3) tertiary butyl alcohol | 2.49 | 59 | 3114 | 5.71 | ug/L | 62 |
| 4) 1,4-dioxane | 4.38 | 88 | 871 | 18.91 | ug/L | 83 |
| 6) chlorodifluoromethane | 1.26 | 51 | 3646 | 1.14 | ug/L | 99 |
| 7) dichlorodifluoromethane | 1.24 | 85 | 3550 | 1.12 | ug/L | 96 |
| 8) chloromethane | 1.37 | 50 | 3918 | 1.20 | ug/L | 98 |
| 9) vinyl chloride | 1.44 | 62 | 3682 | 1.04 | ug/L | 96 |
| 10) bromomethane | 1.64 | 96 | 466 | 0.84 | ug/L | 87 |
| 11) chloroethane | 1.71 | 64 | 1814 | 1.27 | ug/L | 91 |
| 12) trichlorofluoromethane | 1.86 | 101 | 4948 | 1.02 | ug/L | 98 |
| 14) ethyl ether | 2.02 | 74 | 1225 | 1.05 | ug/L | 91 |
| 15) acrolein | 2.10 | 56 | 757 | 1.10 | ug/L | 86 |
| 16) 1,1-dichloroethene | 2.17 | 96 | 2187 | 0.97 | ug/L | 92 |
| 17) freon 113 | 2.17 | 101 | 2696 | 1.00 | ug/L | 94 |
| 18) acetone | 2.19 | 58 | 1679 | 4.66 | ug/L | 96 |
| 19) acetonitrile | 2.35 | 41 | 6079 | 12.44 | ug/L | 92 |
| 21) carbon disulfide | 2.32 | 76 | 5788 | 1.02 | ug/L | 95 |
| 22) methylene chloride | 2.46 | 84 | 2457 | 1.16 | ug/L | 83 |
| 24) methyl tert butyl ether | 2.61 | 73 | 6986 | 1.09 | ug/L | 94 |
| 25) acrylonitrile | 2.59 | 53 | 1540 | 1.06 | ug/L | 85 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 2485 | 1.05 | ug/L | 95 |
| 27) hexane | 2.78 | 57 | 3881 | 1.05 | ug/L | 97 |
| 28) di-isopropyl ether | 2.88 | 45 | 8429 | 1.05 | ug/L | 96 |
| 29) 2-butanone | 3.20 | 72 | 1800 | 4.10 | ug/L # | 84 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 4583 | 1.11 | ug/L | 96 |
| 31) chloroprene | 2.93 | 53 | 4101 | 1.01 | ug/L | 93 |
| 32) vinyl acetate | 2.86 | 86 | 417 | 0.82 | ug/L # | 56 |
| 33) ethyl tert-butyl ether | 3.10 | 59 | 7397 | 1.02 | ug/L | 94 |
| 34) ethyl acetate | 3.21 | 45 | 643 | 0.97 | ug/L | 75 |
| 35) 2,2-dichloropropane | 3.23 | 77 | 3586 | 1.06 | ug/L | 94 |
| 36) cis-1,2-dichloroethene | 3.22 | 96 | 2784 | 1.09 | ug/L | 91 |
| 37) methyl acrylate | 3.25 | 55 | 4052 | 1.00 | ug/L | 96 |
| 38) propionitrile | 3.24 | 54 | 6572 | 11.11 | ug/L | 76 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200552.D
Acq On : 28 Sep 2022 10:23 pm
Operator : PrashanS
Sample : IC8636-1
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 29 13:54:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 39) tert-butyl formate | 3.43 | 59 | 1575 | 0.94 ug/L | # | 82 |
| 40) bromochloromethane | 3.36 | 128 | 1361 | 1.07 ug/L | # | 77 |
| 42) chloroform | 3.42 | 83 | 4791 | 1.17 ug/L | | 91 |
| 44) methacrylonitrile | 3.34 | 67 | 1206 | 0.93 ug/L | | 87 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 4073 | 1.00 ug/L | # | 1 |
| 46) cyclohexane | 3.58 | 84 | 4058 | 1.10 ug/L | | 97 |
| 47) tert amyl alcohol | 3.72 | 55 | 1209 | 5.78 ug/L | # | 71 |
| 48) 1,1-dichloropropene | 3.63 | 75 | 3379 | 1.00 ug/L | | 95 |
| 49) isobutyl alcohol | 3.82 | 42 | 580 | 11.68 ug/L | # | 49 |
| 50) carbon tetrachloride | 3.63 | 117 | 3505 | 0.94 ug/L | | 97 |
| 51) isopropyl acetate | 3.74 | 87 | 561 | 0.88 ug/L | # | 54 |
| 54) iso-octane | 3.81 | 57 | 7909 | 1.06 ug/L | | 96 |
| 55) epichlorohydrin | 4.72 | 57 | 2068 | 5.00 ug/L | | 85 |
| 56) n-butyl alcohol | 4.06 | 56 | 6135 | 44.72 ug/L | | 83 |
| 57) benzene | 3.76 | 78 | 9747 | 1.09 ug/L | | 95 |
| 58) tert-amyl methyl ether | 3.81 | 73 | 6424 | 1.00 ug/L | | 94 |
| 59) heptane | 3.92 | 57 | 1538 | 1.15 ug/L | # | 80 |
| 60) 1,2-dichloroethane | 3.78 | 62 | 4269 | 1.30 ug/L | | 93 |
| 61) trichloroethene | 4.17 | 130 | 3105 | 1.06 ug/L | | 95 |
| 62) ethyl acrylate | 4.19 | 55 | 3833 | 0.96 ug/L | | 96 |
| 63) 2-nitropropane | 4.65 | 41 | 933 | 0.94 ug/L | | 83 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 8184 | 4.78 ug/L | | 98 |
| 65) methyl methacrylate | 4.35 | 100 | 782 | 0.98 ug/L | # | 60 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 915 | 0.98 ug/L | # | 77 |
| 67) dibromomethane | 4.40 | 93 | 1772 | 1.17 ug/L | | 86 |
| 68) methylcyclohexane | 4.33 | 83 | 3821 | 0.96 ug/L | | 97 |
| 69) bromodichloromethane | 4.50 | 83 | 2704 | 0.95 ug/L | | 92 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 3081 | 0.91 ug/L | | 98 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 5323 | 3.97 ug/L | | 98 |
| 72) 3-methyl-1-butanol | 4.92 | 70 | 1663 | 14.78 ug/L | | 97 |
| 75) toluene | 5.05 | 92 | 5985 | 1.06 ug/L | | 98 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 2673 | 0.86 ug/L | | 91 |
| 77) ethyl methacrylate | 5.23 | 69 | 2947 | 0.97 ug/L | | 90 |
| 78) 1,1,2-trichloroethane | 5.35 | 83 | 1903 | 1.07 ug/L | | 93 |
| 79) tetrachloroethene | 5.42 | 164 | 2239 | 0.97 ug/L | | 89 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 3475 | 1.05 ug/L | | 99 |
| 81) 2-hexanone | 5.49 | 58 | 5707 | 4.10 ug/L | | 98 |
| 82) butyl acetate | 5.57 | 56 | 2118 | 1.11 ug/L | | 88 |
| 83) dibromochloromethane | 5.63 | 129 | 2235 | 0.88 ug/L | | 95 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 2293 | 0.93 ug/L | | 100 |
| 85) n-butyl ether | 6.15 | 57 | 9486 | 1.00 ug/L | | 97 |
| 86) chlorobenzene | 6.10 | 112 | 7209 | 1.13 ug/L | | 98 |
| 87) 1,1,1,2-tetrachloroethane | 6.16 | 131 | 2101 | 0.87 ug/L | | 98 |
| 88) ethylbenzene | 6.17 | 91 | 11089 | 1.03 ug/L | | 98 |
| 89) m,p-xylene | 6.27 | 106 | 8959 | 2.08 ug/L | | 94 |
| 90) o-xylene | 6.58 | 91 | 8538 | 1.04 ug/L | | 92 |
| 91) styrene | 6.59 | 104 | 7026 | 1.00 ug/L | | 92 |
| 92) butyl acrylate | 6.51 | 55 | 4700 | 0.92 ug/L | | 96 |
| 93) n-amyl acetate | 6.69 | 70 | 1605 | 0.94 ug/L | # | 61 |
| 94) bromoform | 6.74 | 173 | 1231 | 0.70 ug/L | | 80 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200552.D
Acq On : 28 Sep 2022 10:23 pm
Operator : PrashanS
Sample : IC8636-1
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 29 13:54:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

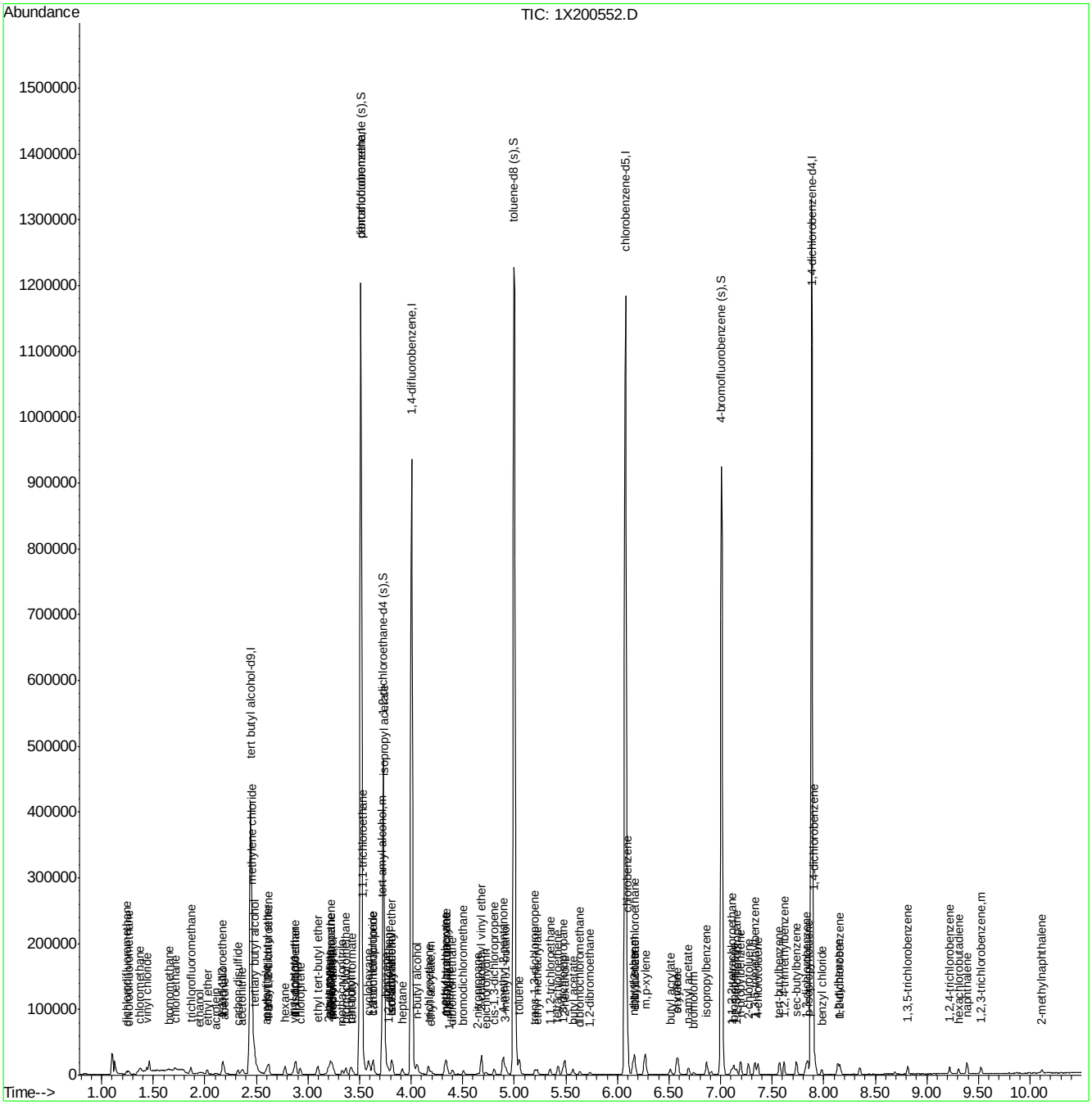
| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 95) isopropylbenzene | 6.86 | 105 | 10985 | 1.01 ug/L | 97 |
| 99) bromobenzene | 7.13 | 156 | 3093 | 1.08 ug/L | 96 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 2962 | 0.99 ug/L | 89 |
| 102) 1,2,3-trichloropropane | 7.16 | 110 | 984 | 1.01 ug/L | 91 |
| 103) n-propylbenzene | 7.19 | 91 | 12072 | 1.02 ug/L | 98 |
| 104) 2-chlorotoluene | 7.27 | 126 | 2820 | 1.07 ug/L | 98 |
| 105) 4-chlorotoluene | 7.36 | 91 | 7640 | 1.11 ug/L | 97 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 8051 | 1.02 ug/L | 96 |
| 107) tert-butylbenzene | 7.57 | 119 | 7714 | 1.02 ug/L | 93 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 8077 | 1.03 ug/L | 98 |
| 109) sec-butylbenzene | 7.73 | 105 | 10593 | 1.00 ug/L | 98 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 5259 | 1.02 ug/L | 99 |
| 111) p-isopropyltoluene | 7.85 | 119 | 8711 | 0.97 ug/L | 97 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 5598 | 1.07 ug/L | 97 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 4916 | 1.01 ug/L | 93 |
| 114) benzyl chloride | 7.98 | 91 | 3601 | 0.74 ug/L | 91 |
| 115) n-butylbenzene | 8.14 | 92 | 3913 | 0.98 ug/L | 86 |
| 117) 1,3,5-trichlorobenzene | 8.82 | 180 | 3062 | 0.98 ug/L | 86 |
| 118) hexachlorobutadiene | 9.31 | 225 | 1198 | 1.08 ug/L | 87 |
| 119) naphthalene | 9.39 | 128 | 10192 | 1.02 ug/L | 96 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 2710 | 1.00 ug/L | 90 |
| 121) 1,2,3-trichlorobenzene | 9.53 | 180 | 2548 | 0.96 ug/L | 96 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 2302 | 0.43 ug/L | 94 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200552.D
Acq On : 28 Sep 2022 10:23 pm
Operator : PrashanS
Sample : IC8636-1
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 29 13:54:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200554.D
Acq On : 28 Sep 2022 11:00 pm
Operator : PrashanS
Sample : IC8636-2
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 29 13:57:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 361361 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 388246 | 50.00 | ug/L | | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 544910 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 6.08 | 117 | 515236 | 50.00 | ug/L | | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 257938 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 185461 | 50.87 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.74% | | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 213669 | 52.75 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 105.50% | | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 617059 | 50.50 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.00% | | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 225374 | 51.05 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.10% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.95 | 45 | 8009 | 244.36 | ug/L | | 99 |
| 3) tertiary butyl alcohol | 2.49 | 59 | 5662 | 10.35 | ug/L | | 72 |
| 4) 1,4-dioxane | 4.38 | 88 | 2163 | 46.81 | ug/L | | 81 |
| 6) chlorodifluoromethane | 1.26 | 51 | 6911 | 2.16 | ug/L | | 96 |
| 7) dichlorodifluoromethane | 1.24 | 85 | 6215 | 1.97 | ug/L | | 99 |
| 8) chloromethane | 1.37 | 50 | 6841 | 2.10 | ug/L | | 91 |
| 9) vinyl chloride | 1.44 | 62 | 6801 | 1.93 | ug/L | | 97 |
| 10) bromomethane | 1.64 | 96 | 884 | 1.60 | ug/L | | 91 |
| 11) chloroethane | 1.71 | 64 | 3120 | 2.18 | ug/L | | 88 |
| 12) trichlorofluoromethane | 1.86 | 101 | 8970 | 1.85 | ug/L | | 97 |
| 14) ethyl ether | 2.02 | 74 | 2307 | 1.97 | ug/L | | 95 |
| 15) acrolein | 2.11 | 56 | 1288 | 1.88 | ug/L | | 95 |
| 16) 1,1-dichloroethene | 2.17 | 96 | 4484 | 2.00 | ug/L | | 87 |
| 17) freon 113 | 2.17 | 101 | 5555 | 2.06 | ug/L | | 93 |
| 18) acetone | 2.19 | 58 | 3101 | 8.62 | ug/L | # | 78 |
| 19) acetonitrile | 2.35 | 41 | 11025 | 22.60 | ug/L | | 95 |
| 20) iodomethane | 2.27 | 142 | 505 | 0.33 | ug/L | | 89 |
| 21) carbon disulfide | 2.32 | 76 | 10478 | 1.85 | ug/L | | 99 |
| 22) methylene chloride | 2.46 | 84 | 4242 | 2.01 | ug/L | | 97 |
| 23) methyl acetate | 2.36 | 43 | 6758 | 2.20 | ug/L | | 98 |
| 24) methyl tert butyl ether | 2.61 | 73 | 12416 | 1.93 | ug/L | | 98 |
| 25) acrylonitrile | 2.59 | 53 | 2808 | 1.94 | ug/L | | 95 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 4856 | 2.06 | ug/L | | 85 |
| 27) hexane | 2.78 | 57 | 7715 | 2.10 | ug/L | | 97 |
| 28) di-isopropyl ether | 2.88 | 45 | 15516 | 1.94 | ug/L | | 96 |
| 29) 2-butanone | 3.20 | 72 | 3238 | 7.40 | ug/L | | 96 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 8289 | 2.01 | ug/L | | 98 |
| 31) chloroprene | 2.93 | 53 | 7931 | 1.95 | ug/L | | 95 |
| 32) vinyl acetate | 2.86 | 86 | 837 | 1.65 | ug/L | # | 92 |
| 33) ethyl tert-butyl ether | 3.10 | 59 | 13917 | 1.92 | ug/L | | 99 |
| 34) ethyl acetate | 3.21 | 45 | 1164 | 1.76 | ug/L | | 97 |
| 35) 2,2-dichloropropane | 3.23 | 77 | 6804 | 2.01 | ug/L | | 93 |
| 36) cis-1,2-dichloroethene | 3.22 | 96 | 5021 | 1.96 | ug/L | | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200554.D
Acq On : 28 Sep 2022 11:00 pm
Operator : PrashanS
Sample : IC8636-2
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 29 13:57:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 37) methyl acrylate | 3.25 | 55 | 7758 | 1.92 | ug/L | | 96 |
| 38) propionitrile | 3.23 | 54 | 12140 | 20.57 | ug/L | # | 59 |
| 39) tert-butyl formate | 3.43 | 59 | 2847 | 1.70 | ug/L | | 85 |
| 40) bromochloromethane | 3.36 | 128 | 2617 | 2.05 | ug/L | | 95 |
| 41) tetrahydrofuran | 3.37 | 42 | 3056 | 2.34 | ug/L | | 82 |
| 42) chloroform | 3.42 | 83 | 8640 | 2.12 | ug/L | | 95 |
| 44) methacrylonitrile | 3.33 | 67 | 2278 | 1.76 | ug/L | | 90 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 8009 | 1.96 | ug/L | # | 37 |
| 46) cyclohexane | 3.58 | 84 | 7441 | 2.02 | ug/L | | 88 |
| 47) tert amyl alcohol | 3.72 | 55 | 2190 | 10.50 | ug/L | | 85 |
| 48) 1,1-dichloropropene | 3.62 | 75 | 6399 | 1.90 | ug/L | | 98 |
| 49) isobutyl alcohol | 3.81 | 42 | 1200 | 24.22 | ug/L | # | 62 |
| 50) carbon tetrachloride | 3.64 | 117 | 6691 | 1.80 | ug/L | | 95 |
| 51) isopropyl acetate | 3.74 | 87 | 1014 | 1.60 | ug/L | # | 71 |
| 54) iso-octane | 3.81 | 57 | 15091 | 2.02 | ug/L | | 98 |
| 55) epichlorohydrin | 4.72 | 57 | 3868 | 9.36 | ug/L | | 90 |
| 56) n-butyl alcohol | 4.06 | 56 | 12152 | 88.67 | ug/L | | 92 |
| 57) benzene | 3.75 | 78 | 18597 | 2.08 | ug/L | | 99 |
| 58) tert-amyl methyl ether | 3.82 | 73 | 12064 | 1.88 | ug/L | | 97 |
| 59) heptane | 3.91 | 57 | 2883 | 2.17 | ug/L | | 94 |
| 60) 1,2-dichloroethane | 3.78 | 62 | 7843 | 2.39 | ug/L | | 97 |
| 61) trichloroethene | 4.17 | 130 | 5562 | 1.91 | ug/L | | 97 |
| 62) ethyl acrylate | 4.19 | 55 | 7475 | 1.87 | ug/L | | 96 |
| 63) 2-nitropropane | 4.65 | 41 | 1804 | 1.82 | ug/L | | 93 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 15580 | 9.11 | ug/L | | 99 |
| 65) methyl methacrylate | 4.34 | 100 | 1399 | 1.76 | ug/L | # | 86 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 1767 | 1.89 | ug/L | # | 79 |
| 67) dibromomethane | 4.40 | 93 | 3040 | 2.00 | ug/L | | 92 |
| 68) methylcyclohexane | 4.33 | 83 | 7899 | 1.99 | ug/L | | 94 |
| 69) bromodichloromethane | 4.51 | 83 | 4913 | 1.73 | ug/L | | 98 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 5750 | 1.70 | ug/L | | 97 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 10181 | 7.60 | ug/L | | 91 |
| 72) 3-methyl-1-butanol | 4.91 | 70 | 3532 | 31.42 | ug/L | | 96 |
| 75) toluene | 5.04 | 92 | 11426 | 2.02 | ug/L | | 97 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 5058 | 1.61 | ug/L | | 96 |
| 77) ethyl methacrylate | 5.22 | 69 | 5717 | 1.88 | ug/L | | 95 |
| 78) 1,1,2-trichloroethane | 5.35 | 83 | 3299 | 1.85 | ug/L | | 91 |
| 79) tetrachloroethene | 5.42 | 164 | 4441 | 1.91 | ug/L | | 88 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 6378 | 1.92 | ug/L | | 97 |
| 81) 2-hexanone | 5.49 | 58 | 10883 | 7.79 | ug/L | | 98 |
| 82) butyl acetate | 5.57 | 56 | 3694 | 1.92 | ug/L | | 91 |
| 83) dibromochloromethane | 5.63 | 129 | 3880 | 1.52 | ug/L | | 93 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 4565 | 1.85 | ug/L | | 98 |
| 85) n-butyl ether | 6.15 | 57 | 18200 | 1.91 | ug/L | | 99 |
| 86) chlorobenzene | 6.10 | 112 | 13105 | 2.04 | ug/L | | 97 |
| 87) 1,1,1,2-tetrachloroethane | 6.16 | 131 | 3798 | 1.56 | ug/L | | 95 |
| 88) ethylbenzene | 6.17 | 91 | 21769 | 2.02 | ug/L | | 98 |
| 89) m,p-xylene | 6.27 | 106 | 17182 | 3.98 | ug/L | | 99 |
| 90) o-xylene | 6.57 | 91 | 16550 | 2.01 | ug/L | | 90 |
| 91) styrene | 6.59 | 104 | 13238 | 1.88 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200554.D
Acq On : 28 Sep 2022 11:00 pm
Operator : PrashanS
Sample : IC8636-2
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 29 13:57:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

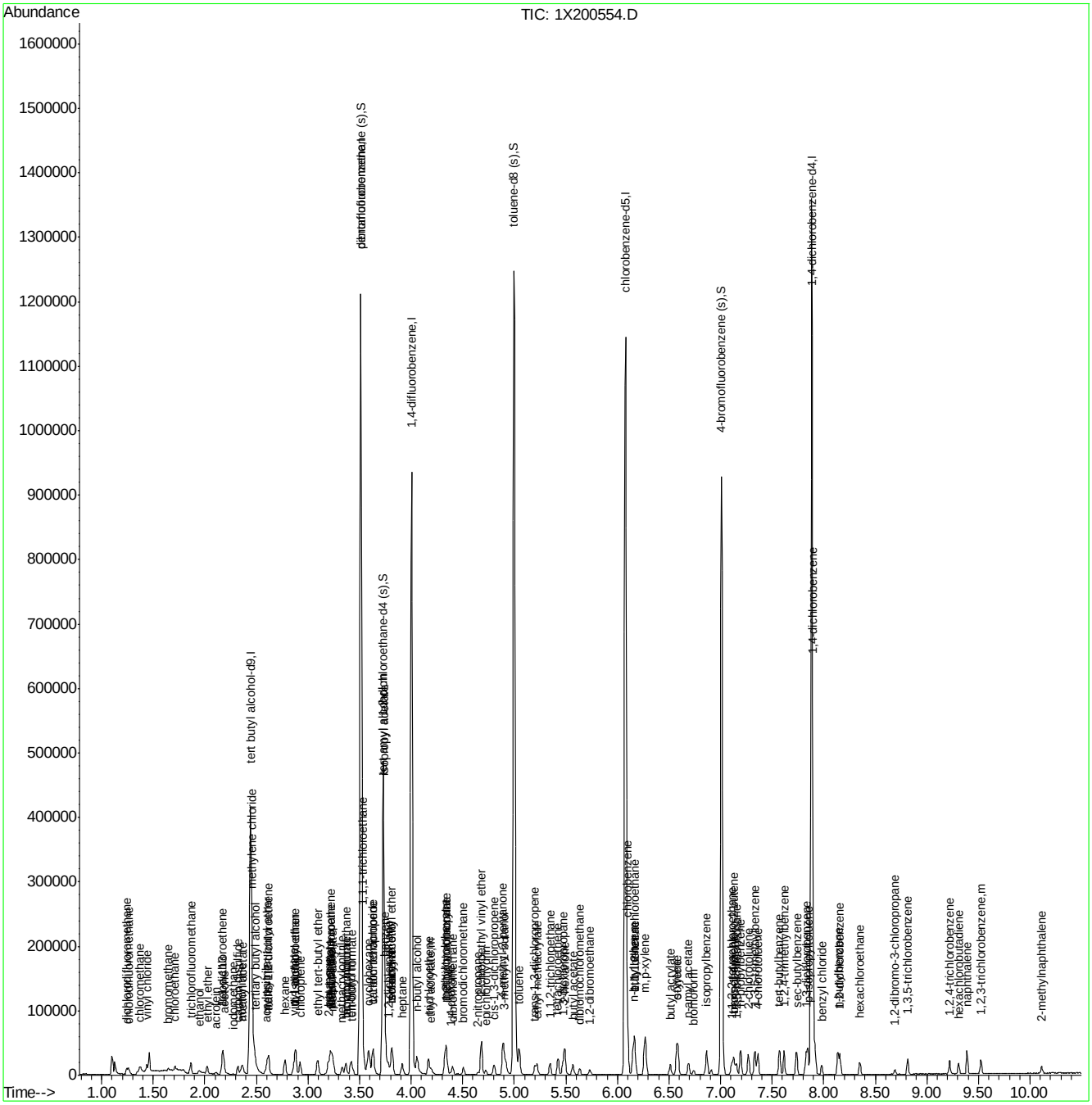
| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 92) butyl acrylate | 6.51 | 55 | 9022 | 1.77 | ug/L | | 95 |
| 93) n-amyl acetate | 6.69 | 70 | 3011 | 1.76 | ug/L | | 96 |
| 94) bromoform | 6.74 | 173 | 2454 | 1.38 | ug/L | | 97 |
| 95) isopropylbenzene | 6.86 | 105 | 21057 | 1.93 | ug/L | | 99 |
| 99) bromobenzene | 7.13 | 156 | 5641 | 1.95 | ug/L | | 93 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 5711 | 1.89 | ug/L | | 99 |
| 101) trans-1,4-dichloro-2-buten | 7.14 | 53 | 1487 | 1.67 | ug/L | | 87 |
| 102) 1,2,3-trichloropropane | 7.15 | 110 | 1954 | 2.00 | ug/L | | 90 |
| 103) n-propylbenzene | 7.19 | 91 | 22476 | 1.89 | ug/L | | 97 |
| 104) 2-chlorotoluene | 7.27 | 126 | 5495 | 2.07 | ug/L | | 89 |
| 105) 4-chlorotoluene | 7.36 | 91 | 13689 | 1.98 | ug/L | | 98 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 14857 | 1.87 | ug/L | | 96 |
| 107) tert-butylbenzene | 7.57 | 119 | 15210 | 2.00 | ug/L | | 96 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 15210 | 1.93 | ug/L | | 98 |
| 109) sec-butylbenzene | 7.74 | 105 | 19800 | 1.86 | ug/L | | 98 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 10211 | 1.97 | ug/L | | 99 |
| 111) p-isopropyltoluene | 7.85 | 119 | 16810 | 1.86 | ug/L | | 99 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 10256 | 1.95 | ug/L | | 88 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 9427 | 1.92 | ug/L | | 97 |
| 114) benzyl chloride | 7.98 | 91 | 6927 | 1.42 | ug/L | | 96 |
| 115) n-butylbenzene | 8.13 | 92 | 7484 | 1.87 | ug/L | | 98 |
| 116) 1,2-dibromo-3-chloropropan | 8.69 | 157 | 1490 | 1.58 | ug/L | | 92 |
| 117) 1,3,5-trichlorobenzene | 8.81 | 180 | 5835 | 1.85 | ug/L | | 98 |
| 118) hexachlorobutadiene | 9.31 | 225 | 2095 | 1.88 | ug/L | | 94 |
| 119) naphthalene | 9.39 | 128 | 18807 | 1.88 | ug/L | | 98 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 5154 | 1.89 | ug/L | | 89 |
| 121) 1,2,3-trichlorobenzene | 9.52 | 180 | 4950 | 1.85 | ug/L | | 97 |
| 122) hexachloroethane | 8.35 | 201 | 1496 | 1.34 | ug/L | # | 55 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 4196 | 0.77 | ug/L | | 90 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200554.D
Acq On : 28 Sep 2022 11:00 pm
Operator : PrashanS
Sample : IC8636-2
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 29 13:57:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200556.D
Acq On : 28 Sep 2022 11:36 pm
Operator : PrashanS
Sample : IC8636-4
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 29 08:35:05 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 356575 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 386225 | 50.00 | ug/L | | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 547071 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 6.08 | 117 | 514026 | 50.00 | ug/L | | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 258718 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 184657 | 50.91 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.82% | | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 211847 | 52.09 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 104.18% | | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 611709 | 50.18 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.36% | | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 226560 | 51.16 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.32% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.95 | 45 | 14520 | 448.96 | ug/L | | 100 |
| 3) tertiary butyl alcohol | 2.49 | 59 | 10520 | 19.49 | ug/L | | 90 |
| 4) 1,4-dioxane | 4.38 | 88 | 4351 | 95.42 | ug/L | | 87 |
| 6) chlorodifluoromethane | 1.26 | 51 | 13170 | 4.14 | ug/L | | 97 |
| 7) dichlorodifluoromethane | 1.24 | 85 | 12939 | 4.13 | ug/L | | 98 |
| 8) chloromethane | 1.37 | 50 | 13018 | 4.02 | ug/L | | 98 |
| 9) vinyl chloride | 1.44 | 62 | 13864 | 3.95 | ug/L | | 96 |
| 10) bromomethane | 1.64 | 96 | 1849 | 3.37 | ug/L | | 95 |
| 11) chloroethane | 1.71 | 64 | 6588 | 4.63 | ug/L | | 99 |
| 12) trichlorofluoromethane | 1.86 | 101 | 18085 | 3.76 | ug/L | | 98 |
| 13) 1,3-butadiene | 1.46 | 54 | 12160 | 4.41 | ug/L | | 99 |
| 14) ethyl ether | 2.02 | 74 | 4743 | 4.08 | ug/L | | 89 |
| 15) acrolein | 2.11 | 56 | 2210 | 3.24 | ug/L | | 76 |
| 16) 1,1-dichloroethene | 2.18 | 96 | 8594 | 3.85 | ug/L | | 96 |
| 17) freon 113 | 2.17 | 101 | 10569 | 3.94 | ug/L | | 97 |
| 18) acetone | 2.19 | 58 | 5669 | 15.83 | ug/L | | 98 |
| 19) acetonitrile | 2.35 | 41 | 21216 | 43.71 | ug/L | | 97 |
| 20) iodomethane | 2.27 | 142 | 1282 | 0.85 | ug/L | | 98 |
| 21) carbon disulfide | 2.32 | 76 | 20488 | 3.64 | ug/L | | 99 |
| 22) methylene chloride | 2.46 | 84 | 8334 | 3.97 | ug/L | | 85 |
| 23) methyl acetate | 2.36 | 43 | 12305 | 4.02 | ug/L | | 99 |
| 24) methyl tert butyl ether | 2.61 | 73 | 24238 | 3.80 | ug/L | | 93 |
| 25) acrylonitrile | 2.59 | 53 | 5334 | 3.70 | ug/L | | 93 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 9131 | 3.89 | ug/L | | 95 |
| 27) hexane | 2.78 | 57 | 14193 | 3.88 | ug/L | | 97 |
| 28) di-isopropyl ether | 2.88 | 45 | 30346 | 3.82 | ug/L | | 97 |
| 29) 2-butanone | 3.20 | 72 | 6332 | 14.54 | ug/L | # | 86 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 16372 | 4.00 | ug/L | | 99 |
| 31) chloroprene | 2.93 | 53 | 15001 | 3.72 | ug/L | | 96 |
| 32) vinyl acetate | 2.86 | 86 | 1654 | 3.28 | ug/L | # | 80 |
| 33) ethyl tert-butyl ether | 3.10 | 59 | 26838 | 3.72 | ug/L | | 98 |
| 34) ethyl acetate | 3.21 | 45 | 2199 | 3.34 | ug/L | | 89 |
| 35) 2,2-dichloropropane | 3.23 | 77 | 12683 | 3.78 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200556.D
Acq On : 28 Sep 2022 11:36 pm
Operator : PrashanS
Sample : IC8636-4
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 29 08:35:05 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 3.22 | 96 | 9791 | 3.84 | ug/L | | 95 |
| 37) methyl acrylate | 3.25 | 55 | 14610 | 3.64 | ug/L | | 97 |
| 38) propionitrile | 3.24 | 54 | 22999 | 39.16 | ug/L | | 82 |
| 39) tert-butyl formate | 3.43 | 59 | 5435 | 3.26 | ug/L | | 91 |
| 40) bromochloromethane | 3.36 | 128 | 5152 | 4.06 | ug/L | | 95 |
| 41) tetrahydrofuran | 3.37 | 42 | 5163 | 3.98 | ug/L | | 92 |
| 42) chloroform | 3.42 | 83 | 16373 | 4.04 | ug/L | | 97 |
| 44) methacrylonitrile | 3.33 | 67 | 4620 | 3.60 | ug/L | | 98 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 15578 | 3.84 | ug/L | # | 69 |
| 46) cyclohexane | 3.58 | 84 | 14348 | 3.91 | ug/L | | 89 |
| 47) tert amyl alcohol | 3.72 | 55 | 4239 | 20.42 | ug/L | | 89 |
| 48) 1,1-dichloropropene | 3.62 | 75 | 12836 | 3.82 | ug/L | | 96 |
| 49) isobutyl alcohol | 3.82 | 42 | 2182 | 44.27 | ug/L | # | 72 |
| 50) carbon tetrachloride | 3.63 | 117 | 13177 | 3.56 | ug/L | | 100 |
| 51) isopropyl acetate | 3.74 | 87 | 2095 | 3.31 | ug/L | # | 78 |
| 54) iso-octane | 3.82 | 57 | 28598 | 3.81 | ug/L | | 99 |
| 55) epichlorohydrin | 4.72 | 57 | 7394 | 17.82 | ug/L | | 92 |
| 56) n-butyl alcohol | 4.06 | 56 | 23448 | 170.43 | ug/L | | 96 |
| 57) benzene | 3.76 | 78 | 34974 | 3.90 | ug/L | | 97 |
| 58) tert-amyl methyl ether | 3.82 | 73 | 22973 | 3.57 | ug/L | | 95 |
| 59) heptane | 3.91 | 57 | 5353 | 4.00 | ug/L | | 93 |
| 60) 1,2-dichloroethane | 3.78 | 62 | 13694 | 4.15 | ug/L | | 97 |
| 61) trichloroethene | 4.17 | 130 | 11044 | 3.78 | ug/L | | 97 |
| 62) ethyl acrylate | 4.19 | 55 | 14558 | 3.64 | ug/L | | 99 |
| 63) 2-nitropropane | 4.65 | 41 | 3145 | 3.16 | ug/L | | 93 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 30617 | 17.83 | ug/L | | 98 |
| 65) methyl methacrylate | 4.35 | 100 | 2699 | 3.37 | ug/L | # | 70 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 3509 | 3.74 | ug/L | | 93 |
| 67) dibromomethane | 4.40 | 93 | 6029 | 3.96 | ug/L | | 93 |
| 68) methylcyclohexane | 4.33 | 83 | 14426 | 3.62 | ug/L | | 98 |
| 69) bromodichloromethane | 4.50 | 83 | 10116 | 3.55 | ug/L | | 99 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 11635 | 3.43 | ug/L | | 97 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 19843 | 14.75 | ug/L | | 95 |
| 72) 3-methyl-1-butanol | 4.91 | 70 | 6746 | 59.78 | ug/L | | 95 |
| 75) toluene | 5.05 | 92 | 21996 | 3.89 | ug/L | | 93 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 10093 | 3.23 | ug/L | | 96 |
| 77) ethyl methacrylate | 5.22 | 69 | 10902 | 3.59 | ug/L | | 99 |
| 78) 1,1,2-trichloroethane | 5.35 | 83 | 6469 | 3.64 | ug/L | | 100 |
| 79) tetrachloroethene | 5.42 | 164 | 8611 | 3.72 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 12548 | 3.79 | ug/L | | 99 |
| 81) 2-hexanone | 5.49 | 58 | 21185 | 15.19 | ug/L | | 96 |
| 82) butyl acetate | 5.57 | 56 | 7049 | 3.67 | ug/L | | 100 |
| 83) dibromochloromethane | 5.64 | 129 | 7798 | 3.05 | ug/L | | 96 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 8653 | 3.51 | ug/L | | 100 |
| 85) n-butyl ether | 6.15 | 57 | 34486 | 3.63 | ug/L | | 97 |
| 86) chlorobenzene | 6.10 | 112 | 25242 | 3.93 | ug/L | | 98 |
| 87) 1,1,1,2-tetrachloroethane | 6.16 | 131 | 7901 | 3.25 | ug/L | | 93 |
| 88) ethylbenzene | 6.17 | 91 | 41351 | 3.84 | ug/L | | 97 |
| 89) m,p-xylene | 6.27 | 106 | 32792 | 7.62 | ug/L | | 98 |
| 90) o-xylene | 6.58 | 91 | 31636 | 3.86 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200556.D
Acq On : 28 Sep 2022 11:36 pm
Operator : PrashanS
Sample : IC8636-4
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 29 08:35:05 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

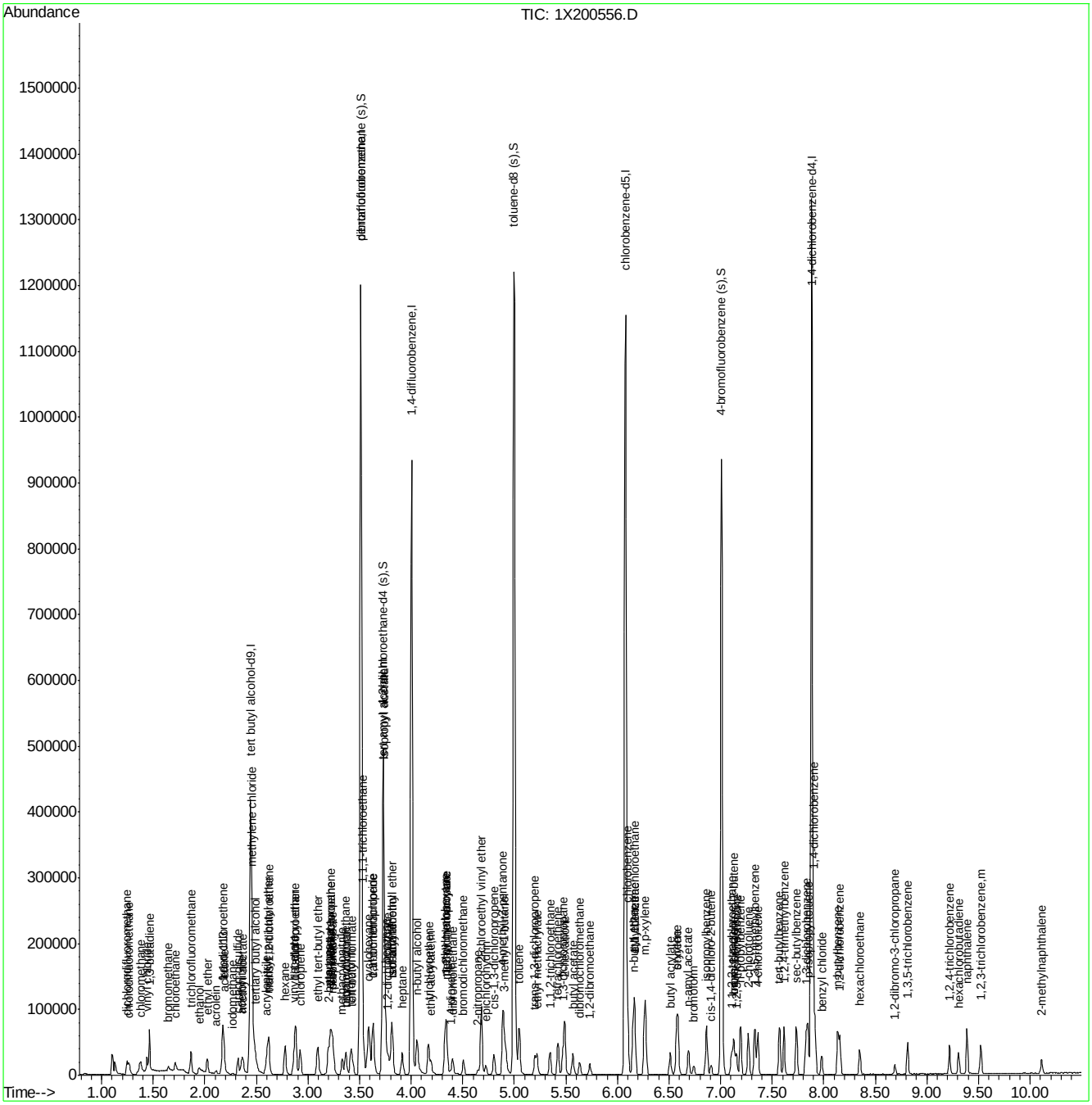
| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 91) styrene | 6.59 | 104 | 25665 | 3.65 ug/L | 100 |
| 92) butyl acrylate | 6.51 | 55 | 17390 | 3.41 ug/L | 99 |
| 93) n-amyl acetate | 6.69 | 70 | 5766 | 3.39 ug/L | 97 |
| 94) bromoform | 6.74 | 173 | 4909 | 2.77 ug/L | 99 |
| 95) isopropylbenzene | 6.86 | 105 | 41072 | 3.78 ug/L | 96 |
| 96) cis-1,4-dichloro-2-butene | 6.91 | 88 | 2262 | 2.27 ug/L | 86 |
| 99) bromobenzene | 7.13 | 156 | 10897 | 3.76 ug/L | 97 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 10963 | 3.62 ug/L | 98 |
| 101) trans-1,4-dichloro-2-buten | 7.13 | 53 | 2773 | 3.10 ug/L # | 78 |
| 102) 1,2,3-trichloropropane | 7.16 | 110 | 3613 | 3.69 ug/L | 86 |
| 103) n-propylbenzene | 7.19 | 91 | 44570 | 3.73 ug/L | 98 |
| 104) 2-chlorotoluene | 7.27 | 126 | 10333 | 3.89 ug/L | 99 |
| 105) 4-chlorotoluene | 7.36 | 91 | 26235 | 3.78 ug/L | 99 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 29495 | 3.70 ug/L | 97 |
| 107) tert-butylbenzene | 7.57 | 119 | 28639 | 3.76 ug/L | 97 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 29993 | 3.80 ug/L | 99 |
| 109) sec-butylbenzene | 7.73 | 105 | 39652 | 3.71 ug/L | 98 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 19676 | 3.79 ug/L | 98 |
| 111) p-isopropyltoluene | 7.85 | 119 | 32636 | 3.60 ug/L | 99 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 20195 | 3.83 ug/L | 98 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 18631 | 3.78 ug/L | 99 |
| 114) benzyl chloride | 7.98 | 91 | 13842 | 2.83 ug/L | 95 |
| 115) n-butylbenzene | 8.13 | 92 | 14338 | 3.58 ug/L | 90 |
| 116) 1,2-dibromo-3-chloropropan | 8.69 | 157 | 2808 | 2.97 ug/L | 95 |
| 117) 1,3,5-trichlorobenzene | 8.81 | 180 | 11378 | 3.60 ug/L | 97 |
| 118) hexachlorobutadiene | 9.31 | 225 | 4017 | 3.59 ug/L | 89 |
| 119) naphthalene | 9.39 | 128 | 37608 | 3.74 ug/L | 99 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 9769 | 3.57 ug/L | 95 |
| 121) 1,2,3-trichlorobenzene | 9.52 | 180 | 9286 | 3.47 ug/L | 95 |
| 122) hexachloroethane | 8.35 | 201 | 2955 | 2.63 ug/L # | 72 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 8348 | 1.53 ug/L | 91 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200556.D
Acq On : 28 Sep 2022 11:36 pm
Operator : PrashanS
Sample : IC8636-4
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 29 08:35:05 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200558.D
Acq On : 29 Sep 2022 12:12 am
Operator : PrashanS
Sample : IC8636-8
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 29 08:35:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 368518 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 389367 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 553321 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.08 | 117 | 519620 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 262373 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 186371 | 50.97 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.94% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 213667 | 51.94 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 103.88% | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 619004 | 50.24 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.48% | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 226223 | 50.37 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.74% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 1.94 | 45 | 27228 | 814.60 | ug/L | 98 |
| 3) tertiary butyl alcohol | 2.49 | 59 | 21199 | 38.00 | ug/L | 96 |
| 4) 1,4-dioxane | 4.38 | 88 | 8957 | 190.07 | ug/L | 95 |
| 6) chlorodifluoromethane | 1.25 | 51 | 25810 | 8.04 | ug/L | 97 |
| 7) dichlorodifluoromethane | 1.24 | 85 | 25072 | 7.93 | ug/L | 99 |
| 8) chloromethane | 1.37 | 50 | 25595 | 7.84 | ug/L | 93 |
| 9) vinyl chloride | 1.43 | 62 | 26890 | 7.60 | ug/L | 100 |
| 10) bromomethane | 1.64 | 96 | 4085 | 7.39 | ug/L | 90 |
| 11) chloroethane | 1.71 | 64 | 12516 | 8.73 | ug/L | 97 |
| 12) trichlorofluoromethane | 1.86 | 101 | 36119 | 7.44 | ug/L | 99 |
| 13) 1,3-butadiene | 1.46 | 54 | 23688 | 8.52 | ug/L | 98 |
| 14) ethyl ether | 2.02 | 74 | 8900 | 7.59 | ug/L | 98 |
| 15) acrolein | 2.10 | 56 | 4964 | 7.21 | ug/L | 90 |
| 16) 1,1-dichloroethene | 2.17 | 96 | 17037 | 7.56 | ug/L | 96 |
| 17) freon 113 | 2.17 | 101 | 20686 | 7.65 | ug/L | 94 |
| 18) acetone | 2.18 | 58 | 11019 | 30.53 | ug/L | 99 |
| 19) acetonitrile | 2.35 | 41 | 40876 | 83.54 | ug/L | 99 |
| 20) iodomethane | 2.27 | 142 | 3670 | 2.42 | ug/L | 95 |
| 21) carbon disulfide | 2.32 | 76 | 40342 | 7.12 | ug/L | 99 |
| 22) methylene chloride | 2.46 | 84 | 16207 | 7.66 | ug/L | 96 |
| 23) methyl acetate | 2.36 | 43 | 23197 | 7.53 | ug/L | 98 |
| 24) methyl tert butyl ether | 2.60 | 73 | 48804 | 7.58 | ug/L | 100 |
| 25) acrylonitrile | 2.58 | 53 | 11044 | 7.61 | ug/L | 96 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 18057 | 7.63 | ug/L | 98 |
| 27) hexane | 2.78 | 57 | 27180 | 7.37 | ug/L | 99 |
| 28) di-isopropyl ether | 2.88 | 45 | 59141 | 7.38 | ug/L | 99 |
| 29) 2-butanone | 3.19 | 72 | 12439 | 28.34 | ug/L | 91 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 32229 | 7.81 | ug/L | 97 |
| 31) chloroprene | 2.92 | 53 | 29594 | 7.27 | ug/L | 96 |
| 32) vinyl acetate | 2.86 | 86 | 3630 | 7.15 | ug/L # | 86 |
| 33) ethyl tert-butyl ether | 3.09 | 59 | 53154 | 7.31 | ug/L | 98 |
| 34) ethyl acetate | 3.21 | 45 | 4637 | 6.98 | ug/L | 96 |
| 35) 2,2-dichloropropane | 3.22 | 77 | 25054 | 7.40 | ug/L | 91 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200558.D
Acq On : 29 Sep 2022 12:12 am
Operator : PrashanS
Sample : IC8636-8
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 29 08:35:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 3.21 | 96 | 19126 | 7.45 | ug/L | | 92 |
| 37) methyl acrylate | 3.24 | 55 | 30486 | 7.53 | ug/L | | 95 |
| 38) propionitrile | 3.23 | 54 | 46725 | 78.93 | ug/L | | 69 |
| 39) tert-butyl formate | 3.43 | 59 | 11208 | 6.68 | ug/L | | 94 |
| 40) bromochloromethane | 3.36 | 128 | 9669 | 7.56 | ug/L | | 96 |
| 41) tetrahydrofuran | 3.37 | 42 | 10533 | 8.06 | ug/L | | 99 |
| 42) chloroform | 3.41 | 83 | 31006 | 7.58 | ug/L | | 97 |
| 44) methacrylonitrile | 3.33 | 67 | 9826 | 7.58 | ug/L | | 95 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 30551 | 7.47 | ug/L | | 86 |
| 46) cyclohexane | 3.58 | 84 | 28196 | 7.63 | ug/L | | 99 |
| 47) tert amyl alcohol | 3.72 | 55 | 8271 | 39.52 | ug/L | | 97 |
| 48) 1,1-dichloropropene | 3.62 | 75 | 25335 | 7.49 | ug/L | | 96 |
| 49) isobutyl alcohol | 3.82 | 42 | 4257 | 85.67 | ug/L | # | 73 |
| 50) carbon tetrachloride | 3.63 | 117 | 26125 | 7.00 | ug/L | | 99 |
| 51) isopropyl acetate | 3.74 | 87 | 4349 | 6.82 | ug/L | # | 82 |
| 54) iso-octane | 3.81 | 57 | 56823 | 7.48 | ug/L | | 98 |
| 55) epichlorohydrin | 4.72 | 57 | 15028 | 35.82 | ug/L | | 96 |
| 56) n-butyl alcohol | 4.06 | 56 | 48046 | 345.27 | ug/L | | 96 |
| 57) benzene | 3.75 | 78 | 68364 | 7.53 | ug/L | | 99 |
| 58) tert-amyl methyl ether | 3.81 | 73 | 46415 | 7.13 | ug/L | | 97 |
| 59) heptane | 3.91 | 57 | 10584 | 7.83 | ug/L | | 95 |
| 60) 1,2-dichloroethane | 3.78 | 62 | 26324 | 7.89 | ug/L | | 99 |
| 61) trichloroethene | 4.17 | 130 | 21808 | 7.37 | ug/L | | 99 |
| 62) ethyl acrylate | 4.19 | 55 | 29363 | 7.25 | ug/L | | 98 |
| 63) 2-nitropropane | 4.65 | 41 | 6580 | 6.53 | ug/L | | 93 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 62202 | 35.82 | ug/L | | 99 |
| 65) methyl methacrylate | 4.34 | 100 | 5581 | 6.90 | ug/L | # | 86 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 7253 | 7.64 | ug/L | | 100 |
| 67) dibromomethane | 4.40 | 93 | 11532 | 7.49 | ug/L | | 96 |
| 68) methylcyclohexane | 4.33 | 83 | 29180 | 7.24 | ug/L | | 98 |
| 69) bromodichloromethane | 4.50 | 83 | 19625 | 6.80 | ug/L | | 100 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 22972 | 6.69 | ug/L | | 97 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 40291 | 29.61 | ug/L | | 98 |
| 72) 3-methyl-1-butanol | 4.92 | 70 | 14847 | 130.07 | ug/L | | 95 |
| 75) toluene | 5.04 | 92 | 42596 | 7.46 | ug/L | | 97 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 20851 | 6.59 | ug/L | | 97 |
| 77) ethyl methacrylate | 5.22 | 69 | 21521 | 7.01 | ug/L | | 98 |
| 78) 1,1,2-trichloroethane | 5.35 | 83 | 13087 | 7.28 | ug/L | | 94 |
| 79) tetrachloroethene | 5.42 | 164 | 17080 | 7.29 | ug/L | | 95 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 24287 | 7.26 | ug/L | | 99 |
| 81) 2-hexanone | 5.49 | 58 | 42532 | 30.17 | ug/L | | 96 |
| 82) butyl acetate | 5.57 | 56 | 14136 | 7.28 | ug/L | | 100 |
| 83) dibromochloromethane | 5.63 | 129 | 16304 | 6.31 | ug/L | | 96 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 17275 | 6.94 | ug/L | | 98 |
| 85) n-butyl ether | 6.15 | 57 | 69670 | 7.25 | ug/L | | 98 |
| 86) chlorobenzene | 6.10 | 112 | 48603 | 7.49 | ug/L | | 97 |
| 87) 1,1,1,2-tetrachloroethane | 6.16 | 131 | 16054 | 6.53 | ug/L | | 100 |
| 88) ethylbenzene | 6.17 | 91 | 81055 | 7.45 | ug/L | | 98 |
| 89) m,p-xylene | 6.27 | 106 | 64889 | 14.91 | ug/L | | 99 |
| 90) o-xylene | 6.57 | 91 | 62041 | 7.48 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200558.D
Acq On : 29 Sep 2022 12:12 am
Operator : PrashanS
Sample : IC8636-8
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 29 08:35:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

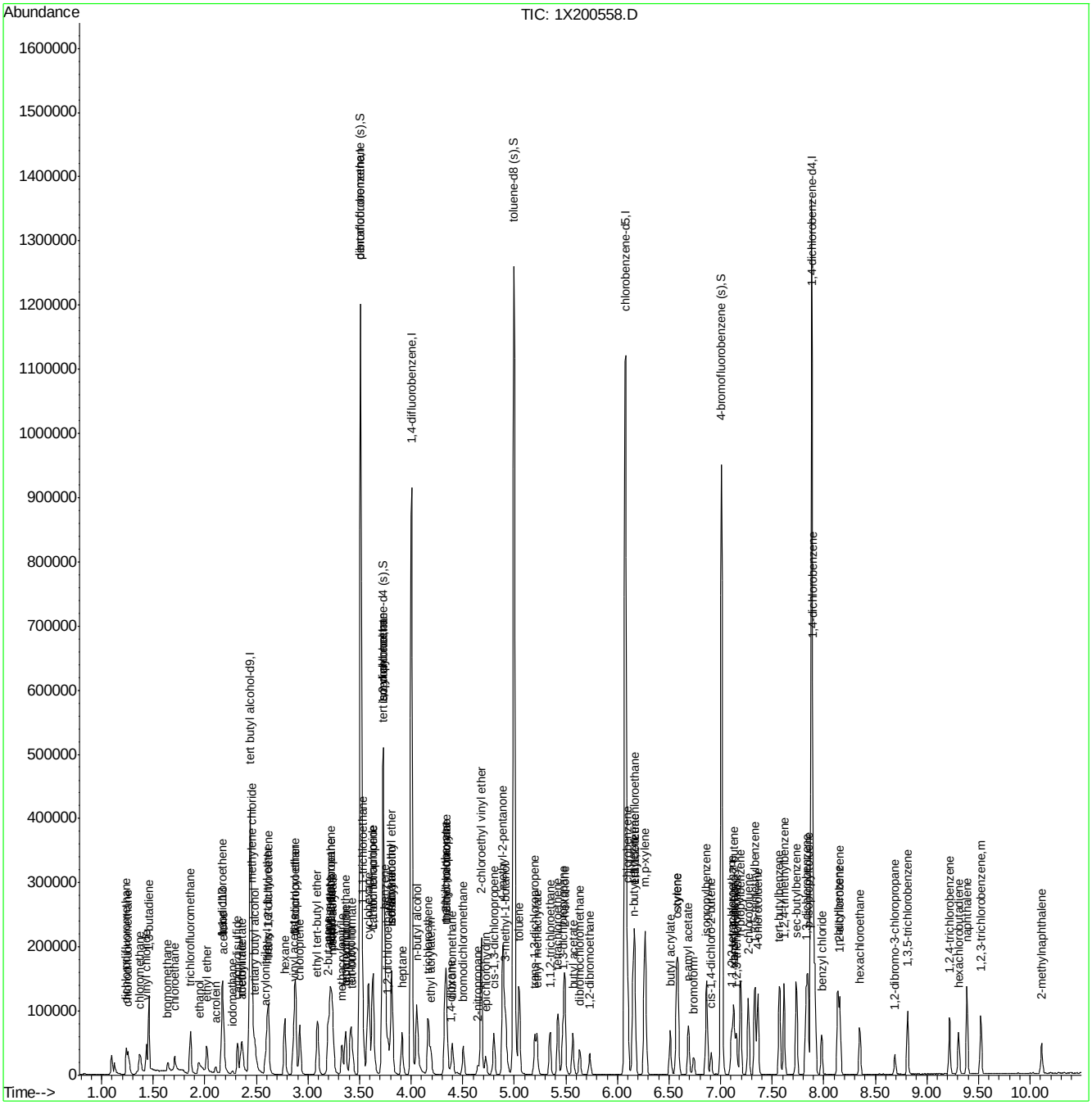
| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 91) styrene | 6.59 | 104 | 50674 | 7.14 | ug/L | | 99 |
| 92) butyl acrylate | 6.51 | 55 | 35429 | 6.88 | ug/L | | 99 |
| 93) n-amyl acetate | 6.69 | 70 | 12148 | 7.06 | ug/L | | 96 |
| 94) bromoform | 6.74 | 173 | 10215 | 5.71 | ug/L | | 98 |
| 95) isopropylbenzene | 6.86 | 105 | 80584 | 7.33 | ug/L | | 99 |
| 96) cis-1,4-dichloro-2-butene | 6.91 | 88 | 5323 | 5.30 | ug/L | | 91 |
| 99) bromobenzene | 7.13 | 156 | 21377 | 7.27 | ug/L | | 99 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 22528 | 7.33 | ug/L | | 94 |
| 101) trans-1,4-dichloro-2-buten | 7.14 | 53 | 5716 | 6.30 | ug/L | | 82 |
| 102) 1,2,3-trichloropropane | 7.15 | 110 | 7043 | 7.09 | ug/L | | 97 |
| 103) n-propylbenzene | 7.19 | 91 | 89124 | 7.36 | ug/L | | 97 |
| 104) 2-chlorotoluene | 7.27 | 126 | 20298 | 7.53 | ug/L | | 93 |
| 105) 4-chlorotoluene | 7.36 | 91 | 51898 | 7.37 | ug/L | | 98 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 58252 | 7.21 | ug/L | | 98 |
| 107) tert-butylbenzene | 7.57 | 119 | 56205 | 7.28 | ug/L | | 94 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 57982 | 7.24 | ug/L | | 99 |
| 109) sec-butylbenzene | 7.73 | 105 | 77931 | 7.20 | ug/L | | 100 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 38198 | 7.26 | ug/L | | 99 |
| 111) p-isopropyltoluene | 7.85 | 119 | 66799 | 7.26 | ug/L | | 99 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 39261 | 7.34 | ug/L | | 99 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 36337 | 7.27 | ug/L | | 97 |
| 114) benzyl chloride | 7.98 | 91 | 29605 | 5.96 | ug/L | | 96 |
| 115) n-butylbenzene | 8.13 | 92 | 28641 | 7.05 | ug/L | | 98 |
| 116) 1,2-dibromo-3-chloropropan | 8.69 | 157 | 6056 | 6.32 | ug/L | | 92 |
| 117) 1,3,5-trichlorobenzene | 8.81 | 180 | 22762 | 7.10 | ug/L | | 99 |
| 118) hexachlorobutadiene | 9.31 | 225 | 7917 | 6.98 | ug/L | | 94 |
| 119) naphthalene | 9.39 | 128 | 74972 | 7.35 | ug/L | | 99 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 19266 | 6.94 | ug/L | | 95 |
| 121) 1,2,3-trichlorobenzene | 9.52 | 180 | 18987 | 6.99 | ug/L | | 98 |
| 122) hexachloroethane | 8.35 | 201 | 6454 | 5.67 | ug/L | # | 75 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 17876 | 3.23 | ug/L | | 92 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200558.D
Acq On : 29 Sep 2022 12:12 am
Operator : PrashanS
Sample : IC8636-8
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 29 08:35:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200560.D
Acq On : 29 Sep 2022 12:48 am
Operator : PrashanS
Sample : IC8636-20
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 29 08:35:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 368620 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 395577 | 50.00 | ug/L | | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 567056 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 6.08 | 117 | 527311 | 50.00 | ug/L | | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 270734 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 187574 | 50.49 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.98% | | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 217924 | 51.70 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 103.40% | | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 628520 | 50.26 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.52% | | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 228986 | 49.42 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.84% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.94 | 45 | 67777 | 2027.18 | ug/L | | 97 |
| 3) tertiary butyl alcohol | 2.49 | 59 | 54352 | 97.41 | ug/L | | 94 |
| 4) 1,4-dioxane | 4.38 | 88 | 22787 | 483.42 | ug/L | | 92 |
| 6) chlorodifluoromethane | 1.25 | 51 | 65691 | 20.15 | ug/L | | 99 |
| 7) dichlorodifluoromethane | 1.24 | 85 | 63015 | 19.62 | ug/L | | 100 |
| 8) chloromethane | 1.37 | 50 | 63683 | 19.21 | ug/L | | 98 |
| 9) vinyl chloride | 1.43 | 62 | 69291 | 19.27 | ug/L | | 99 |
| 10) bromomethane | 1.64 | 96 | 10204 | 18.18 | ug/L | | 98 |
| 11) chloroethane | 1.71 | 64 | 29790 | 20.46 | ug/L | | 98 |
| 12) trichlorofluoromethane | 1.86 | 101 | 91700 | 18.59 | ug/L | | 98 |
| 13) 1,3-butadiene | 1.46 | 54 | 58481 | 20.71 | ug/L | | 99 |
| 14) ethyl ether | 2.02 | 74 | 23241 | 19.50 | ug/L | | 96 |
| 15) acrolein | 2.11 | 56 | 12595 | 18.00 | ug/L | | 96 |
| 16) 1,1-dichloroethene | 2.17 | 96 | 44600 | 19.49 | ug/L | | 98 |
| 17) freon 113 | 2.17 | 101 | 53654 | 19.54 | ug/L | | 97 |
| 18) acetone | 2.18 | 58 | 29183 | 79.57 | ug/L | | 99 |
| 19) acetonitrile | 2.35 | 41 | 100942 | 203.06 | ug/L | | 98 |
| 20) iodomethane | 2.27 | 142 | 16336 | 10.59 | ug/L | | 98 |
| 21) carbon disulfide | 2.32 | 76 | 110370 | 19.16 | ug/L | | 99 |
| 22) methylene chloride | 2.46 | 84 | 42884 | 19.94 | ug/L | | 95 |
| 23) methyl acetate | 2.36 | 43 | 58964 | 18.83 | ug/L | | 99 |
| 24) methyl tert butyl ether | 2.61 | 73 | 124828 | 19.09 | ug/L | | 99 |
| 25) acrylonitrile | 2.59 | 53 | 27972 | 18.96 | ug/L | | 96 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 47713 | 19.83 | ug/L | | 100 |
| 27) hexane | 2.78 | 57 | 72589 | 19.38 | ug/L | | 100 |
| 28) di-isopropyl ether | 2.88 | 45 | 158016 | 19.41 | ug/L | | 99 |
| 29) 2-butanone | 3.19 | 72 | 33614 | 75.38 | ug/L | # | 85 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 82898 | 19.77 | ug/L | | 100 |
| 31) chloroprene | 2.92 | 53 | 82319 | 19.91 | ug/L | | 99 |
| 32) vinyl acetate | 2.86 | 86 | 9182 | 17.80 | ug/L | | 98 |
| 33) ethyl tert-butyl ether | 3.09 | 59 | 141461 | 19.15 | ug/L | | 99 |
| 34) ethyl acetate | 3.21 | 45 | 11981 | 17.75 | ug/L | | 98 |
| 35) 2,2-dichloropropane | 3.22 | 77 | 66974 | 19.47 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200560.D
Acq On : 29 Sep 2022 12:48 am
Operator : PrashanS
Sample : IC8636-20
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 29 08:35:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 3.21 | 96 | 50310 | 19.29 | ug/L | | 91 |
| 37) methyl acrylate | 3.24 | 55 | 79182 | 19.24 | ug/L | | 96 |
| 38) propionitrile | 3.23 | 54 | 117522 | 195.39 | ug/L | | 70 |
| 39) tert-butyl formate | 3.43 | 59 | 29494 | 17.30 | ug/L | | 99 |
| 40) bromochloromethane | 3.36 | 128 | 25417 | 19.57 | ug/L | | 98 |
| 41) tetrahydrofuran | 3.37 | 42 | 25543 | 19.23 | ug/L | | 98 |
| 42) chloroform | 3.41 | 83 | 81055 | 19.51 | ug/L | | 98 |
| 44) methacrylonitrile | 3.33 | 67 | 25192 | 19.14 | ug/L | | 96 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 80547 | 19.37 | ug/L | | 96 |
| 46) cyclohexane | 3.58 | 84 | 70859 | 18.87 | ug/L | | 97 |
| 47) tert amyl alcohol | 3.72 | 55 | 20513 | 96.48 | ug/L | | 94 |
| 48) 1,1-dichloropropene | 3.62 | 75 | 67203 | 19.55 | ug/L | | 98 |
| 49) isobutyl alcohol | 3.81 | 42 | 9419 | 186.57 | ug/L | | 98 |
| 50) carbon tetrachloride | 3.63 | 117 | 71550 | 18.87 | ug/L | | 99 |
| 51) isopropyl acetate | 3.74 | 87 | 11777 | 18.19 | ug/L | # | 85 |
| 54) iso-octane | 3.81 | 57 | 149812 | 19.23 | ug/L | | 98 |
| 55) epichlorohydrin | 4.72 | 57 | 39819 | 92.61 | ug/L | | 99 |
| 56) n-butyl alcohol | 4.06 | 56 | 131516 | 922.20 | ug/L | | 98 |
| 57) benzene | 3.75 | 78 | 182006 | 19.56 | ug/L | | 99 |
| 58) tert-amyl methyl ether | 3.81 | 73 | 123317 | 18.49 | ug/L | | 98 |
| 59) heptane | 3.91 | 57 | 28093 | 20.28 | ug/L | | 98 |
| 60) 1,2-dichloroethane | 3.78 | 62 | 65750 | 19.23 | ug/L | | 100 |
| 61) trichloroethene | 4.17 | 130 | 59527 | 19.64 | ug/L | | 97 |
| 62) ethyl acrylate | 4.19 | 55 | 76470 | 18.43 | ug/L | | 99 |
| 63) 2-nitropropane | 4.65 | 41 | 17492 | 16.94 | ug/L | | 96 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 165246 | 92.85 | ug/L | | 100 |
| 65) methyl methacrylate | 4.34 | 100 | 15302 | 18.46 | ug/L | | 95 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 18688 | 19.21 | ug/L | | 98 |
| 67) dibromomethane | 4.40 | 93 | 30305 | 19.20 | ug/L | | 99 |
| 68) methylcyclohexane | 4.33 | 83 | 77613 | 18.79 | ug/L | | 99 |
| 69) bromodichloromethane | 4.51 | 83 | 54389 | 18.40 | ug/L | | 100 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 64757 | 18.40 | ug/L | | 96 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 104617 | 75.01 | ug/L | | 99 |
| 72) 3-methyl-1-butanol | 4.91 | 70 | 41434 | 354.20 | ug/L | | 98 |
| 75) toluene | 5.04 | 92 | 114690 | 19.79 | ug/L | | 96 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 58322 | 18.17 | ug/L | | 100 |
| 77) ethyl methacrylate | 5.22 | 69 | 58163 | 18.67 | ug/L | | 99 |
| 78) 1,1,2-trichloroethane | 5.34 | 83 | 33805 | 18.52 | ug/L | | 98 |
| 79) tetrachloroethene | 5.42 | 164 | 45141 | 18.99 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 64154 | 18.89 | ug/L | | 99 |
| 81) 2-hexanone | 5.49 | 58 | 109058 | 76.23 | ug/L | | 99 |
| 82) butyl acetate | 5.57 | 56 | 36853 | 18.71 | ug/L | | 98 |
| 83) dibromochloromethane | 5.63 | 129 | 45286 | 17.28 | ug/L | | 95 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 46866 | 18.54 | ug/L | | 98 |
| 85) n-butyl ether | 6.15 | 57 | 184372 | 18.90 | ug/L | | 100 |
| 86) chlorobenzene | 6.10 | 112 | 127304 | 19.33 | ug/L | | 98 |
| 87) 1,1,1,2-tetrachloroethane | 6.16 | 131 | 44767 | 17.94 | ug/L | | 97 |
| 88) ethylbenzene | 6.16 | 91 | 213907 | 19.36 | ug/L | | 100 |
| 89) m,p-xylene | 6.27 | 106 | 173069 | 39.18 | ug/L | | 100 |
| 90) o-xylene | 6.57 | 91 | 163878 | 19.48 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200560.D
Acq On : 29 Sep 2022 12:48 am
Operator : PrashanS
Sample : IC8636-20
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 29 08:35:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

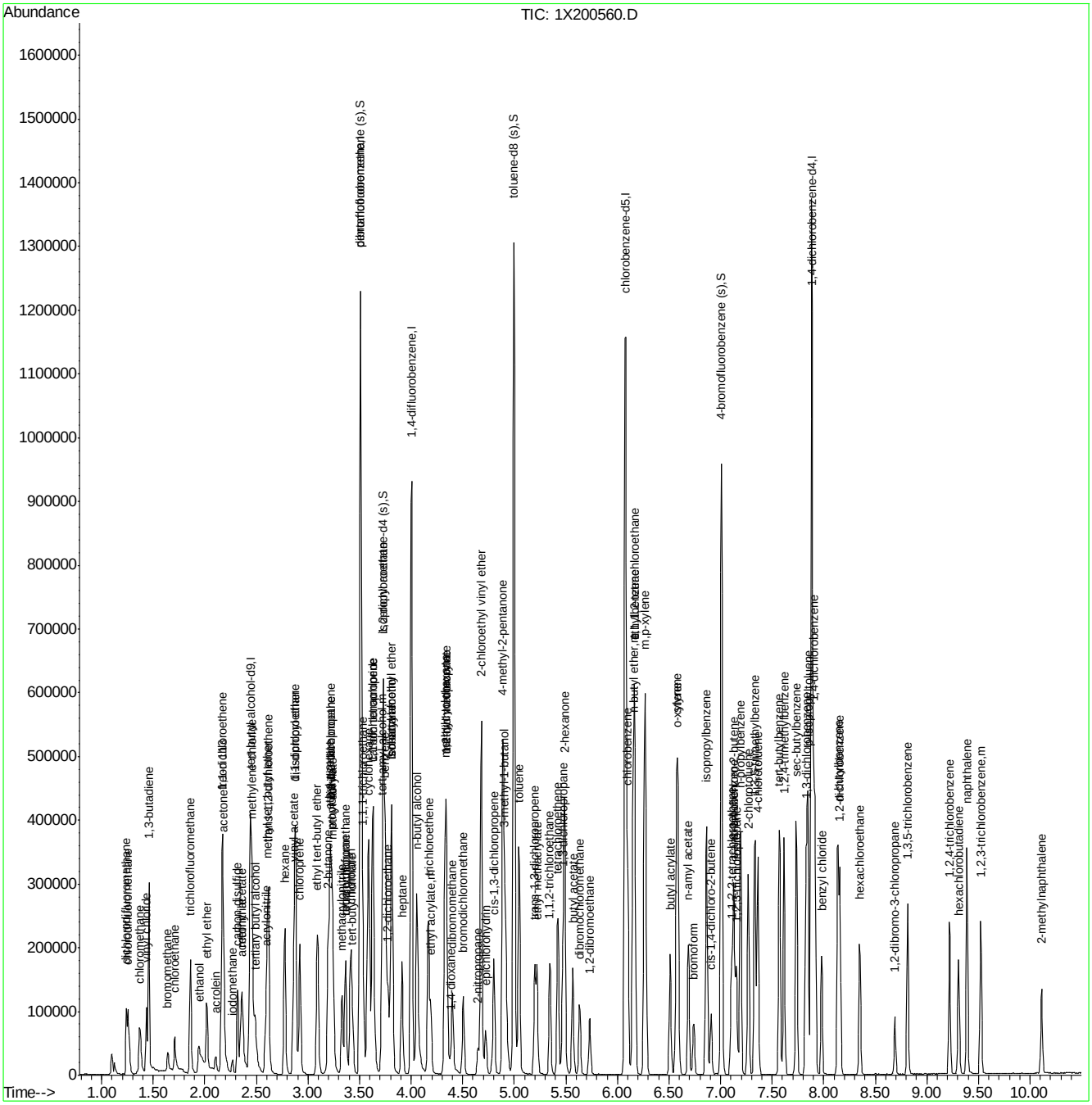
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) styrene | 6.59 | 104 | 138151 | 19.18 | ug/L | 99 |
| 92) butyl acrylate | 6.51 | 55 | 95918 | 18.35 | ug/L | 99 |
| 93) n-amyl acetate | 6.69 | 70 | 32272 | 18.48 | ug/L | 99 |
| 94) bromoform | 6.74 | 173 | 30437 | 16.77 | ug/L | 96 |
| 95) isopropylbenzene | 6.86 | 105 | 215483 | 19.32 | ug/L | 99 |
| 96) cis-1,4-dichloro-2-butene | 6.91 | 88 | 16003 | 15.69 | ug/L | 94 |
| 99) bromobenzene | 7.13 | 156 | 55941 | 18.43 | ug/L | 99 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 58795 | 18.53 | ug/L | 99 |
| 101) trans-1,4-dichloro-2-buten | 7.14 | 53 | 16174 | 17.28 | ug/L | 86 |
| 102) 1,2,3-trichloropropane | 7.15 | 110 | 19262 | 18.80 | ug/L | 93 |
| 103) n-propylbenzene | 7.19 | 91 | 240327 | 19.22 | ug/L | 98 |
| 104) 2-chlorotoluene | 7.27 | 126 | 53503 | 19.24 | ug/L | 100 |
| 105) 4-chlorotoluene | 7.36 | 91 | 139012 | 19.14 | ug/L | 98 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 159225 | 19.11 | ug/L | 99 |
| 107) tert-butylbenzene | 7.57 | 119 | 153567 | 19.28 | ug/L | 98 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 157842 | 19.11 | ug/L | 99 |
| 109) sec-butylbenzene | 7.73 | 105 | 213563 | 19.12 | ug/L | 99 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 102729 | 18.91 | ug/L | 100 |
| 111) p-isopropyltoluene | 7.85 | 119 | 181445 | 19.11 | ug/L | 100 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 104873 | 19.00 | ug/L | 98 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 98161 | 19.04 | ug/L | 99 |
| 114) benzyl chloride | 7.98 | 91 | 88514 | 17.28 | ug/L | 100 |
| 115) n-butylbenzene | 8.13 | 92 | 79041 | 18.85 | ug/L | 100 |
| 116) 1,2-dibromo-3-chloropropan | 8.69 | 157 | 17355 | 17.55 | ug/L | 99 |
| 117) 1,3,5-trichlorobenzene | 8.81 | 180 | 61943 | 18.73 | ug/L | 99 |
| 118) hexachlorobutadiene | 9.31 | 225 | 22290 | 19.05 | ug/L | 97 |
| 119) naphthalene | 9.39 | 128 | 196837 | 18.71 | ug/L | 99 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 52950 | 18.49 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 9.52 | 180 | 52122 | 18.61 | ug/L | 98 |
| 122) hexachloroethane | 8.35 | 201 | 19512 | 16.61 | ug/L | 89 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 49729 | 8.71 | ug/L | 98 |

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

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200560.D
Acq On : 29 Sep 2022 12:48 am
Operator : PrashanS
Sample : IC8636-20
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 29 08:35:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200562.D
Acq On : 29 Sep 2022 1:25 am
Operator : PrashanS
Sample : ICC8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 29 08:35:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 372113 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 405044 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 578854 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.07 | 117 | 537918 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 274585 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 190194 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 215159 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.00% | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 637800 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 234991 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 1.94 | 45 | 168755 | 5000.00 | ug/L | 100 |
| 3) tertiary butyl alcohol | 2.49 | 59 | 140821 | 250.00 | ug/L | 100 |
| 4) 1,4-dioxane | 4.38 | 88 | 59480 | 1250.00 | ug/L | 100 |
| 6) chlorodifluoromethane | 1.26 | 51 | 166886 | 50.00 | ug/L | 100 |
| 7) dichlorodifluoromethane | 1.24 | 85 | 164409 | 50.00 | ug/L | 100 |
| 8) chloromethane | 1.37 | 50 | 169725 | 50.00 | ug/L | 100 |
| 9) vinyl chloride | 1.44 | 62 | 184112 | 50.00 | ug/L | 100 |
| 10) bromomethane | 1.64 | 96 | 28737 | 50.00 | ug/L | 100 |
| 11) chloroethane | 1.71 | 64 | 74557 | 50.00 | ug/L | 100 |
| 12) trichlorofluoromethane | 1.86 | 101 | 252540 | 50.00 | ug/L | 100 |
| 13) 1,3-butadiene | 1.46 | 54 | 144602 | 50.00 | ug/L | 100 |
| 14) ethyl ether | 2.02 | 74 | 61006 | 50.00 | ug/L | 100 |
| 15) acrolein | 2.11 | 56 | 35816 | 50.00 | ug/L | 100 |
| 16) 1,1-dichloroethene | 2.17 | 96 | 117176 | 50.00 | ug/L | 100 |
| 17) freon 113 | 2.17 | 101 | 140601 | 50.00 | ug/L | 100 |
| 18) acetone | 2.19 | 58 | 75103 | 200.00 | ug/L | 100 |
| 19) acetonitrile | 2.35 | 41 | 254499 | 500.00 | ug/L | 100 |
| 20) iodomethane | 2.27 | 142 | 78961 | 50.00 | ug/L | 100 |
| 21) carbon disulfide | 2.32 | 76 | 294891 | 50.00 | ug/L | 100 |
| 22) methylene chloride | 2.46 | 84 | 110117 | 50.00 | ug/L | 100 |
| 23) methyl acetate | 2.36 | 43 | 160316 | 50.00 | ug/L | 100 |
| 24) methyl tert butyl ether | 2.61 | 73 | 334781 | 50.00 | ug/L | 100 |
| 25) acrylonitrile | 2.59 | 53 | 75520 | 50.00 | ug/L | 100 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 123172 | 50.00 | ug/L | 100 |
| 27) hexane | 2.78 | 57 | 191791 | 50.00 | ug/L | 100 |
| 28) di-isopropyl ether | 2.88 | 45 | 416691 | 50.00 | ug/L | 100 |
| 29) 2-butanone | 3.20 | 72 | 91319 | 200.00 | ug/L | 100 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 214691 | 50.00 | ug/L | 100 |
| 31) chloroprene | 2.92 | 53 | 211659 | 50.00 | ug/L | 100 |
| 32) vinyl acetate | 2.86 | 86 | 26408 | 50.00 | ug/L | 100 |
| 33) ethyl tert-butyl ether | 3.09 | 59 | 378101 | 50.00 | ug/L | 100 |
| 34) ethyl acetate | 3.21 | 45 | 34552 | 50.00 | ug/L | 100 |
| 35) 2,2-dichloropropane | 3.22 | 77 | 176147 | 50.00 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200562.D
Acq On : 29 Sep 2022 1:25 am
Operator : PrashanS
Sample : ICC8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 29 08:35:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 3.22 | 96 | 133549 | 50.00 | ug/L | 100 |
| 37) methyl acrylate | 3.25 | 55 | 210409 | 49.94 | ug/L | 100 |
| 38) propionitrile | 3.24 | 54 | 307927 | 500.00 | ug/L | 100 |
| 39) tert-butyl formate | 3.43 | 59 | 87301 | 50.00 | ug/L | 100 |
| 40) bromochloromethane | 3.36 | 128 | 66482 | 50.00 | ug/L | 100 |
| 41) tetrahydrofuran | 3.37 | 42 | 68358 | 50.27 | ug/L | 100 |
| 42) chloroform | 3.41 | 83 | 212684 | 50.00 | ug/L | 100 |
| 44) methacrylonitrile | 3.33 | 67 | 67386 | 50.00 | ug/L | 100 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 212862 | 50.00 | ug/L | 100 |
| 46) cyclohexane | 3.58 | 84 | 192212 | 50.00 | ug/L | 100 |
| 47) tert amyl alcohol | 3.72 | 55 | 53421 | 245.40 | ug/L | 100 |
| 48) 1,1-dichloropropene | 3.62 | 75 | 175993 | 50.00 | ug/L | 100 |
| 49) isobutyl alcohol | 3.81 | 42 | 25847 | 500.00 | ug/L | 100 |
| 50) carbon tetrachloride | 3.63 | 117 | 194172 | 50.00 | ug/L | 100 |
| 51) isopropyl acetate | 3.74 | 87 | 33145 | 50.00 | ug/L | 100 |
| 54) iso-octane | 3.81 | 57 | 397602 | 50.00 | ug/L | 100 |
| 55) epichlorohydrin | 4.72 | 57 | 109733 | 250.00 | ug/L | 100 |
| 56) n-butyl alcohol | 4.06 | 56 | 363958 | 2500.09 | ug/L | 100 |
| 57) benzene | 3.75 | 78 | 474820 | 50.00 | ug/L | 100 |
| 58) tert-amyl methyl ether | 3.81 | 73 | 340482 | 50.00 | ug/L | 100 |
| 59) heptane | 3.91 | 57 | 72186 | 51.04 | ug/L | 100 |
| 60) 1,2-dichloroethane | 3.78 | 62 | 174486 | 50.00 | ug/L | 100 |
| 61) trichloroethene | 4.17 | 130 | 154715 | 50.00 | ug/L | 100 |
| 62) ethyl acrylate | 4.19 | 55 | 211808 | 50.00 | ug/L | 100 |
| 63) 2-nitropropane | 4.65 | 41 | 52719 | 50.00 | ug/L | 100 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 454172 | 250.00 | ug/L | 100 |
| 65) methyl methacrylate | 4.34 | 100 | 42309 | 50.00 | ug/L | 100 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 49656 | 50.00 | ug/L | 100 |
| 67) dibromomethane | 4.40 | 93 | 80568 | 50.00 | ug/L | 100 |
| 68) methylcyclohexane | 4.33 | 83 | 210834 | 50.00 | ug/L | 100 |
| 69) bromodichloromethane | 4.51 | 83 | 150890 | 50.00 | ug/L | 100 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 179598 | 50.00 | ug/L | 100 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 284743 | 200.00 | ug/L | 100 |
| 72) 3-methyl-1-butanol | 4.91 | 70 | 119412 | 1000.00 | ug/L | 100 |
| 75) toluene | 5.04 | 92 | 295605 | 50.00 | ug/L | 100 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 163748 | 50.00 | ug/L | 100 |
| 77) ethyl methacrylate | 5.22 | 69 | 158919 | 50.00 | ug/L | 100 |
| 78) 1,1,2-trichloroethane | 5.34 | 83 | 93095 | 50.00 | ug/L | 100 |
| 79) tetrachloroethene | 5.42 | 164 | 121232 | 50.00 | ug/L | 100 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 173181 | 50.00 | ug/L | 100 |
| 81) 2-hexanone | 5.49 | 58 | 291869 | 200.00 | ug/L | 100 |
| 82) butyl acetate | 5.57 | 56 | 100469 | 50.00 | ug/L | 100 |
| 83) dibromochloromethane | 5.63 | 129 | 133659 | 50.00 | ug/L | 100 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 128900 | 50.00 | ug/L | 100 |
| 85) n-butyl ether | 6.15 | 57 | 497563 | 50.00 | ug/L | 100 |
| 86) chlorobenzene | 6.10 | 112 | 335895 | 50.00 | ug/L | 100 |
| 87) 1,1,1,2-tetrachloroethane | 6.16 | 131 | 127282 | 50.00 | ug/L | 100 |
| 88) ethylbenzene | 6.16 | 91 | 563484 | 50.00 | ug/L | 100 |
| 89) m,p-xylene | 6.27 | 106 | 450639 | 100.00 | ug/L | 100 |
| 90) o-xylene | 6.57 | 91 | 429137 | 50.00 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200562.D
Acq On : 29 Sep 2022 1:25 am
Operator : PrashanS
Sample : ICC8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 29 08:35:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

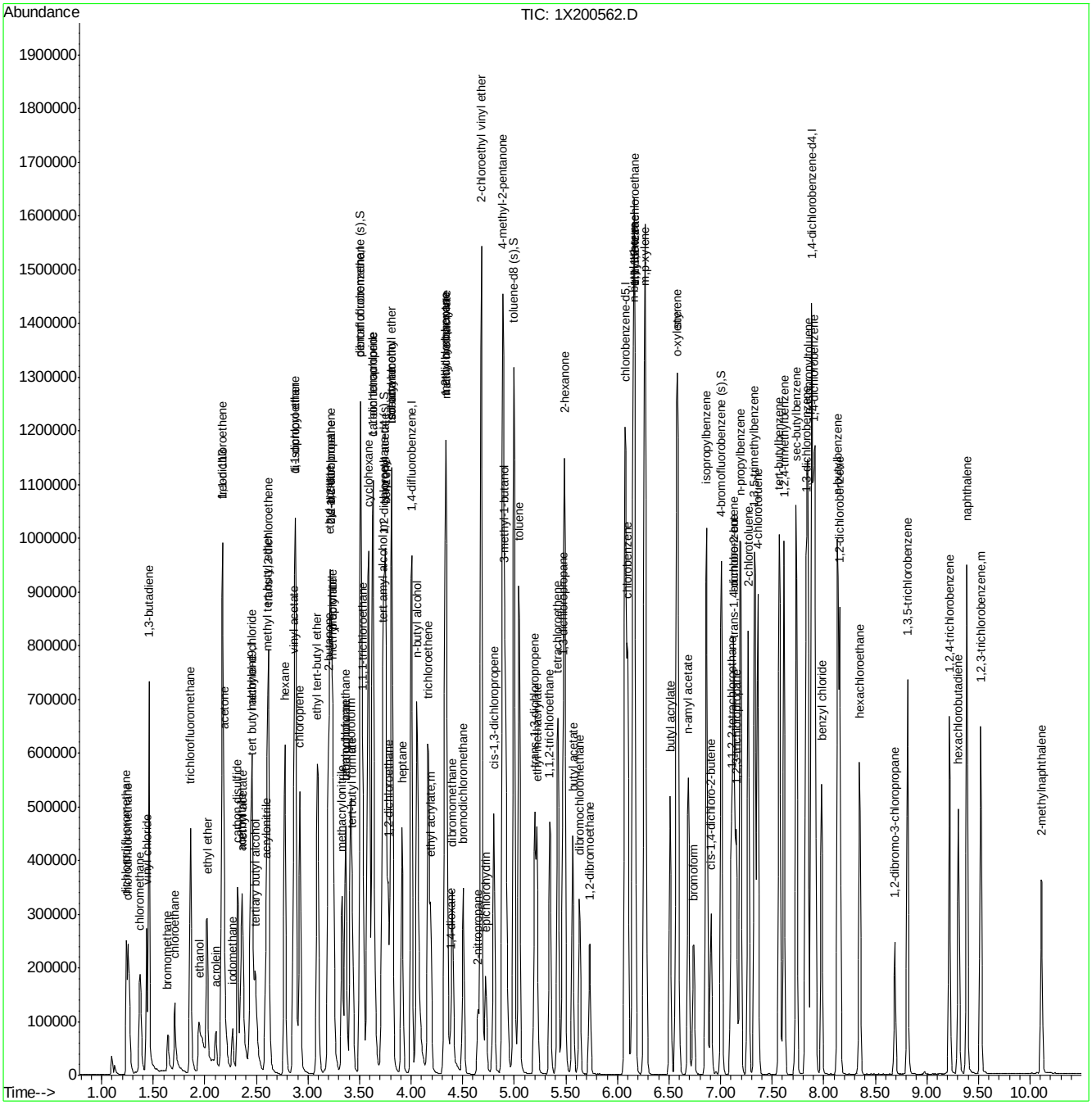
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) styrene | 6.59 | 104 | 367430 | 50.00 | ug/L | 100 |
| 92) butyl acrylate | 6.51 | 55 | 266557 | 50.00 | ug/L | 100 |
| 93) n-amyl acetate | 6.69 | 70 | 89053 | 50.00 | ug/L | 100 |
| 94) bromoform | 6.74 | 173 | 92562 | 50.00 | ug/L | 100 |
| 95) isopropylbenzene | 6.86 | 105 | 568799 | 50.00 | ug/L | 100 |
| 96) cis-1,4-dichloro-2-butene | 6.91 | 88 | 52029 | 50.00 | ug/L | 100 |
| 99) bromobenzene | 7.13 | 156 | 153913 | 50.00 | ug/L | 100 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 160930 | 50.00 | ug/L | 100 |
| 101) trans-1,4-dichloro-2-buten | 7.14 | 53 | 47468 | 50.00 | ug/L | 100 |
| 102) 1,2,3-trichloropropane | 7.15 | 110 | 51948 | 50.00 | ug/L | 100 |
| 103) n-propylbenzene | 7.19 | 91 | 634017 | 50.00 | ug/L | 100 |
| 104) 2-chlorotoluene | 7.27 | 126 | 140986 | 50.00 | ug/L | 100 |
| 105) 4-chlorotoluene | 7.36 | 91 | 368384 | 50.00 | ug/L | 100 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 422544 | 50.00 | ug/L | 100 |
| 107) tert-butylbenzene | 7.57 | 119 | 403972 | 50.00 | ug/L | 100 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 418787 | 50.00 | ug/L | 100 |
| 109) sec-butylbenzene | 7.73 | 105 | 566409 | 50.00 | ug/L | 100 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 275494 | 50.00 | ug/L | 100 |
| 111) p-isopropyltoluene | 7.85 | 119 | 481564 | 50.00 | ug/L | 100 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 279950 | 50.00 | ug/L | 100 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 261410 | 50.00 | ug/L | 100 |
| 114) benzyl chloride | 7.98 | 91 | 259774 | 50.00 | ug/L | 100 |
| 115) n-butylbenzene | 8.13 | 92 | 212691 | 50.00 | ug/L | 100 |
| 116) 1,2-dibromo-3-chloropropan | 8.69 | 157 | 50156 | 50.00 | ug/L | 100 |
| 117) 1,3,5-trichlorobenzene | 8.81 | 180 | 167722 | 50.00 | ug/L | 100 |
| 118) hexachlorobutadiene | 9.30 | 225 | 59342 | 50.00 | ug/L | 100 |
| 119) naphthalene | 9.39 | 128 | 533450 | 50.00 | ug/L | 100 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 145219 | 50.00 | ug/L | 100 |
| 121) 1,2,3-trichlorobenzene | 9.52 | 180 | 142050 | 50.00 | ug/L | 100 |
| 122) hexachloroethane | 8.35 | 201 | 59570 | 50.00 | ug/L | 100 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 144820 | 25.00 | ug/L | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200562.D
Acq On : 29 Sep 2022 1:25 am
Operator : PrashanS
Sample : ICC8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 29 08:35:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200564.D
Acq On : 29 Sep 2022 2:01 am
Operator : PrashanS
Sample : IC8636-100
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 29 08:35:13 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 380540 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 425838 | 50.00 | ug/L | | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 599212 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 6.07 | 117 | 553178 | 50.00 | ug/L | | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 275879 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 197095 | 49.28 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.56% | | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 222651 | 49.98 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.96% | | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 660398 | 50.34 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.68% | | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 237685 | 50.34 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.68% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.94 | 45 | 303436 | 8791.34 | ug/L | | 96 |
| 3) tertiary butyl alcohol | 2.49 | 59 | 281270 | 488.28 | ug/L | | 95 |
| 4) 1,4-dioxane | 4.38 | 88 | 118665 | 2438.58 | ug/L | | 95 |
| 6) chlorodifluoromethane | 1.25 | 51 | 331466 | 94.46 | ug/L | | 99 |
| 7) dichlorodifluoromethane | 1.24 | 85 | 328650 | 95.07 | ug/L | | 100 |
| 8) chloromethane | 1.37 | 50 | 329808 | 92.42 | ug/L | | 99 |
| 9) vinyl chloride | 1.43 | 62 | 357106 | 92.25 | ug/L | | 99 |
| 10) bromomethane | 1.64 | 96 | 54102 | 89.54 | ug/L | | 96 |
| 11) chloroethane | 1.70 | 64 | 125435 | 80.01 | ug/L | | 99 |
| 12) trichlorofluoromethane | 1.86 | 101 | 500341 | 94.22 | ug/L | | 99 |
| 13) 1,3-butadiene | 1.46 | 54 | 275767 | 90.70 | ug/L | | 99 |
| 14) ethyl ether | 2.02 | 74 | 121890 | 95.02 | ug/L | | 92 |
| 15) acrolein | 2.10 | 56 | 72418 | 96.16 | ug/L | | 96 |
| 16) 1,1-dichloroethene | 2.17 | 96 | 240484 | 97.61 | ug/L | | 97 |
| 17) freon 113 | 2.17 | 101 | 295688 | 100.02 | ug/L | | 98 |
| 18) acetone | 2.18 | 58 | 148564 | 376.31 | ug/L | | 97 |
| 19) acetonitrile | 2.35 | 41 | 504619 | 942.99 | ug/L | | 99 |
| 20) iodomethane | 2.27 | 142 | 195159 | 117.54 | ug/L | | 99 |
| 21) carbon disulfide | 2.32 | 76 | 613459 | 98.94 | ug/L | | 98 |
| 22) methylene chloride | 2.46 | 84 | 217067 | 93.75 | ug/L | | 96 |
| 23) methyl acetate | 2.36 | 43 | 315580 | 93.62 | ug/L | | 98 |
| 24) methyl tert butyl ether | 2.61 | 73 | 679553 | 96.54 | ug/L | | 100 |
| 25) acrylonitrile | 2.59 | 53 | 152638 | 96.12 | ug/L | | 99 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 253708 | 97.96 | ug/L | | 96 |
| 27) hexane | 2.78 | 57 | 401734 | 99.62 | ug/L | | 99 |
| 28) di-isopropyl ether | 2.88 | 45 | 848921 | 96.89 | ug/L | | 98 |
| 29) 2-butanone | 3.20 | 72 | 181999 | 379.14 | ug/L | | 94 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 437763 | 96.97 | ug/L | | 99 |
| 31) chloroprene | 2.92 | 53 | 434104 | 97.54 | ug/L | | 99 |
| 32) vinyl acetate | 2.86 | 86 | 53432 | 96.23 | ug/L | # | 92 |
| 33) ethyl tert-butyl ether | 3.09 | 59 | 771345 | 97.02 | ug/L | | 100 |
| 34) ethyl acetate | 3.21 | 45 | 69788 | 96.06 | ug/L | | 98 |
| 35) 2,2-dichloropropane | 3.22 | 77 | 370875 | 100.13 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200564.D
Acq On : 29 Sep 2022 2:01 am
Operator : PrashanS
Sample : IC8636-100
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 29 08:35:13 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 3.21 | 96 | 270623 | 96.37 | ug/L | | 93 |
| 37) methyl acrylate | 3.24 | 55 | 425056 | 95.96 | ug/L | | 97 |
| 38) propionitrile | 3.24 | 54 | 604711 | 933.96 | ug/L | | 94 |
| 39) tert-butyl formate | 3.43 | 59 | 182472 | 99.40 | ug/L | | 97 |
| 40) bromochloromethane | 3.36 | 128 | 131736 | 94.24 | ug/L | | 99 |
| 41) tetrahydrofuran | 3.37 | 42 | 134482 | 94.07 | ug/L | | 99 |
| 42) chloroform | 3.41 | 83 | 431857 | 96.57 | ug/L | | 99 |
| 44) methacrylonitrile | 3.33 | 67 | 137093 | 96.75 | ug/L | | 97 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 437908 | 97.84 | ug/L | | 99 |
| 46) cyclohexane | 3.58 | 84 | 397886 | 98.45 | ug/L | | 97 |
| 47) tert amyl alcohol | 3.72 | 55 | 102419 | 447.50 | ug/L | | 95 |
| 48) 1,1-dichloropropene | 3.62 | 75 | 365469 | 98.76 | ug/L | | 100 |
| 49) isobutyl alcohol | 3.81 | 42 | 52085 | 958.36 | ug/L | # | 96 |
| 50) carbon tetrachloride | 3.63 | 117 | 413222 | 101.21 | ug/L | | 99 |
| 51) isopropyl acetate | 3.74 | 87 | 67094 | 96.27 | ug/L | | 98 |
| 54) iso-octane | 3.81 | 57 | 833526 | 101.26 | ug/L | | 99 |
| 55) epichlorohydrin | 4.72 | 57 | 209963 | 462.10 | ug/L | | 98 |
| 56) n-butyl alcohol | 4.06 | 56 | 728038 | 4831.11 | ug/L | | 99 |
| 57) benzene | 3.75 | 78 | 979156 | 99.61 | ug/L | | 100 |
| 58) tert-amyl methyl ether | 3.81 | 73 | 702806 | 99.70 | ug/L | | 100 |
| 59) heptane | 3.91 | 57 | 150824 | 103.02 | ug/L | | 99 |
| 60) 1,2-dichloroethane | 3.78 | 62 | 349729 | 96.81 | ug/L | | 99 |
| 61) trichloroethene | 4.17 | 130 | 317141 | 99.01 | ug/L | | 98 |
| 62) ethyl acrylate | 4.19 | 55 | 432267 | 98.58 | ug/L | | 100 |
| 63) 2-nitropropane | 4.65 | 41 | 110802 | 101.52 | ug/L | | 100 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 919446 | 488.92 | ug/L | | 99 |
| 65) methyl methacrylate | 4.34 | 100 | 85783 | 97.93 | ug/L | # | 90 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 100592 | 97.85 | ug/L | | 98 |
| 67) dibromomethane | 4.40 | 93 | 162248 | 97.27 | ug/L | | 97 |
| 68) methylcyclohexane | 4.33 | 83 | 440876 | 101.00 | ug/L | | 99 |
| 69) bromodichloromethane | 4.50 | 83 | 309369 | 99.03 | ug/L | | 100 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 365517 | 98.30 | ug/L | | 98 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 577123 | 391.59 | ug/L | | 98 |
| 72) 3-methyl-1-butanol | 4.92 | 70 | 244242 | 1975.88 | ug/L | | 99 |
| 75) toluene | 5.04 | 92 | 613802 | 100.96 | ug/L | | 97 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 339532 | 100.82 | ug/L | | 100 |
| 77) ethyl methacrylate | 5.22 | 69 | 318401 | 97.41 | ug/L | | 98 |
| 78) 1,1,2-trichloroethane | 5.34 | 83 | 186214 | 97.25 | ug/L | | 99 |
| 79) tetrachloroethene | 5.42 | 164 | 252388 | 101.22 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 345874 | 97.10 | ug/L | | 99 |
| 81) 2-hexanone | 5.49 | 58 | 584575 | 389.52 | ug/L | | 100 |
| 82) butyl acetate | 5.57 | 56 | 198909 | 96.26 | ug/L | | 97 |
| 83) dibromochloromethane | 5.63 | 129 | 276908 | 100.73 | ug/L | | 98 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 254727 | 96.08 | ug/L | | 97 |
| 85) n-butyl ether | 6.15 | 57 | 1013770 | 99.06 | ug/L | | 99 |
| 86) chlorobenzene | 6.10 | 112 | 674939 | 97.70 | ug/L | | 99 |
| 87) 1,1,1,2-tetrachloroethane | 6.16 | 131 | 265555 | 101.44 | ug/L | | 98 |
| 88) ethylbenzene | 6.16 | 91 | 1163416 | 100.39 | ug/L | | 100 |
| 89) m,p-xylene | 6.27 | 106 | 920234 | 198.57 | ug/L | | 99 |
| 90) o-xylene | 6.58 | 91 | 875303 | 99.17 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200564.D
Acq On : 29 Sep 2022 2:01 am
Operator : PrashanS
Sample : IC8636-100
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 29 08:35:13 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

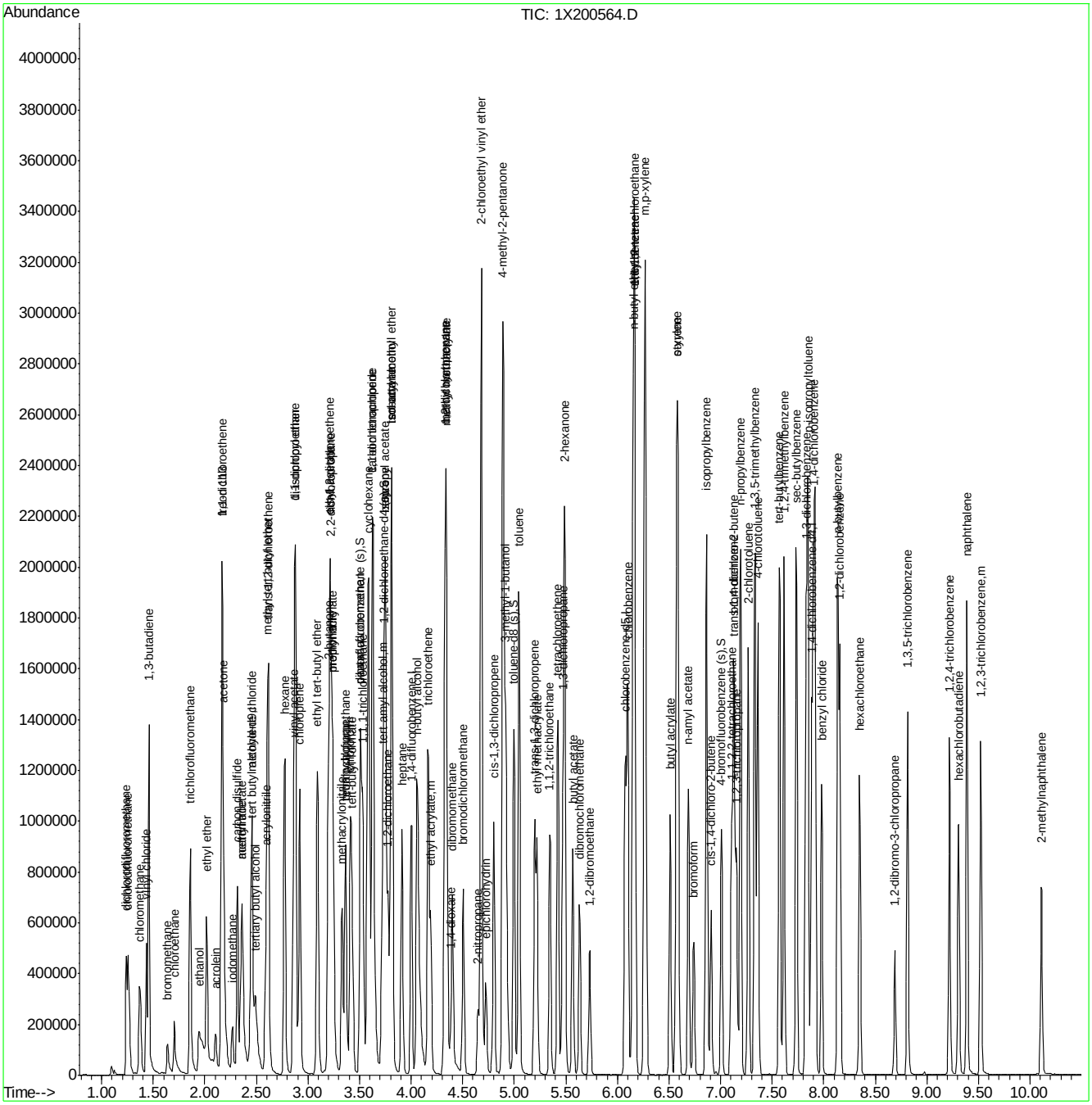
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) styrene | 6.59 | 104 | 740350 | 97.97 | ug/L | 99 |
| 92) butyl acrylate | 6.51 | 55 | 526052 | 95.95 | ug/L | 98 |
| 93) n-amyl acetate | 6.69 | 70 | 174658 | 95.36 | ug/L | 98 |
| 94) bromoform | 6.74 | 173 | 197244 | 103.61 | ug/L | 99 |
| 95) isopropylbenzene | 6.86 | 105 | 1142103 | 97.63 | ug/L | 99 |
| 96) cis-1,4-dichloro-2-butene | 6.91 | 88 | 115998 | 108.40 | ug/L | 99 |
| 99) bromobenzene | 7.13 | 156 | 300874 | 97.28 | ug/L | 95 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 320849 | 99.22 | ug/L | 100 |
| 101) trans-1,4-dichloro-2-buten | 7.14 | 53 | 100873 | 105.76 | ug/L | 97 |
| 102) 1,2,3-trichloropropane | 7.15 | 110 | 101558 | 97.29 | ug/L | 87 |
| 103) n-propylbenzene | 7.19 | 91 | 1274405 | 100.03 | ug/L | 98 |
| 104) 2-chlorotoluene | 7.27 | 126 | 280211 | 98.91 | ug/L | 99 |
| 105) 4-chlorotoluene | 7.36 | 91 | 733652 | 99.11 | ug/L | 99 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 864047 | 101.76 | ug/L | 99 |
| 107) tert-butylbenzene | 7.57 | 119 | 806927 | 99.41 | ug/L | 100 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 849408 | 100.94 | ug/L | 100 |
| 109) sec-butylbenzene | 7.73 | 105 | 1141841 | 100.32 | ug/L | 99 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 541295 | 97.78 | ug/L | 99 |
| 111) p-isopropyltoluene | 7.85 | 119 | 978019 | 101.07 | ug/L | 99 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 545438 | 96.96 | ug/L | 99 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 511604 | 97.40 | ug/L | 99 |
| 114) benzyl chloride | 7.98 | 91 | 540390 | 103.52 | ug/L | 99 |
| 115) n-butylbenzene | 8.13 | 92 | 431226 | 100.90 | ug/L | 99 |
| 116) 1,2-dibromo-3-chloropropan | 8.69 | 157 | 100067 | 99.29 | ug/L | 98 |
| 117) 1,3,5-trichlorobenzene | 8.81 | 180 | 328084 | 97.35 | ug/L | 97 |
| 118) hexachlorobutadiene | 9.30 | 225 | 121979 | 102.29 | ug/L | 99 |
| 119) naphthalene | 9.39 | 128 | 1059976 | 98.89 | ug/L | 99 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 289842 | 99.33 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 9.52 | 180 | 288793 | 101.18 | ug/L | 99 |
| 122) hexachloroethane | 8.35 | 201 | 128214 | 107.11 | ug/L | 96 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 296527 | 50.95 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200564.D
Acq On : 29 Sep 2022 2:01 am
Operator : PrashanS
Sample : IC8636-100
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 29 08:35:13 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200566.D
Acq On : 29 Sep 2022 2:37 am
Operator : PrashanS
Sample : IC8636-200
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 13:58:25 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 377815 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 444925 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 620401 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.07 | 117 | 561058 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 269248 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 204989 | 49.06 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.12% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 233092 | 50.54 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.08% | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 686231 | 51.58 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.16% | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 233867 | 50.75 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.50% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 1.95 | 45 | 515681 | 15048.39 | ug/L | 97 |
| 3) tertiary butyl alcohol | 2.49 | 59 | 539596 | 943.49 | ug/L | 93 |
| 4) 1,4-dioxane | 4.39 | 88 | 237787 | 4921.79 | ug/L | 95 |
| 6) chlorodifluoromethane | 1.25 | 51 | 652628 | 178.00 | ug/L | 100 |
| 7) dichlorodifluoromethane | 1.23 | 85 | 639412 | 177.03 | ug/L | 99 |
| 8) chloromethane | 1.37 | 50 | 637860 | 171.07 | ug/L | 98 |
| 9) vinyl chloride | 1.43 | 62 | 695366 | 171.92 | ug/L | 100 |
| 10) bromomethane | 1.63 | 96 | 86121 | 136.41 | ug/L | 99 |
| 12) trichlorofluoromethane | 1.85 | 101 | 938634 | 169.18 | ug/L | 99 |
| 13) 1,3-butadiene | 1.45 | 54 | 515591 | 162.30 | ug/L | 99 |
| 14) ethyl ether | 2.02 | 74 | 246953 | 184.26 | ug/L | 94 |
| 15) acrolein | 2.10 | 56 | 143225 | 182.02 | ug/L | 98 |
| 16) 1,1-dichloroethene | 2.17 | 96 | 487350 | 189.32 | ug/L | 97 |
| 17) freon 113 | 2.16 | 101 | 588707 | 190.59 | ug/L | 99 |
| 18) acetone | 2.18 | 58 | 295393 | 716.12 | ug/L | 98 |
| 19) acetonitrile | 2.35 | 41 | 983289 | 1758.65 | ug/L | 99 |
| 20) iodomethane | 2.26 | 142 | 420286 | 242.28 | ug/L | 99 |
| 21) carbon disulfide | 2.31 | 76 | 1284262 | 198.23 | ug/L | 99 |
| 22) methylene chloride | 2.46 | 84 | 440075 | 181.91 | ug/L | 98 |
| 23) methyl acetate | 2.36 | 43 | 622718 | 176.81 | ug/L | 99 |
| 24) methyl tert butyl ether | 2.60 | 73 | 1401166 | 190.51 | ug/L | 99 |
| 25) acrylonitrile | 2.59 | 53 | 302492 | 182.32 | ug/L | 100 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 526930 | 194.73 | ug/L | 98 |
| 27) hexane | 2.77 | 57 | 794624 | 188.59 | ug/L | 99 |
| 28) di-isopropyl ether | 2.88 | 45 | 1735286 | 189.56 | ug/L | 96 |
| 29) 2-butanone | 3.20 | 72 | 362123 | 722.01 | ug/L | 94 |
| 30) 1,1-dichloroethane | 2.87 | 63 | 900145 | 190.85 | ug/L | 99 |
| 31) chloroprene | 2.92 | 53 | 886411 | 190.63 | ug/L | 98 |
| 32) vinyl acetate | 2.86 | 86 | 107743 | 185.71 | ug/L | 99 |
| 33) ethyl tert-butyl ether | 3.09 | 59 | 1590021 | 191.42 | ug/L | 99 |
| 34) ethyl acetate | 3.21 | 45 | 137819 | 181.56 | ug/L | 96 |
| 35) 2,2-dichloropropane | 3.22 | 77 | 766845 | 198.16 | ug/L | 97 |
| 36) cis-1,2-dichloroethene | 3.21 | 96 | 563666 | 192.12 | ug/L | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200566.D
Acq On : 29 Sep 2022 2:37 am
Operator : PrashanS
Sample : IC8636-200
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 13:58:25 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 37) methyl acrylate | 3.24 | 55 | 860208 | 185.86 | ug/L | | 98 |
| 38) propionitrile | 3.24 | 54 | 1195200 | 1766.76 | ug/L | | 87 |
| 39) tert-butyl formate | 3.43 | 59 | 391999 | 204.39 | ug/L | | 96 |
| 40) bromochloromethane | 3.36 | 128 | 261714 | 179.19 | ug/L | | 99 |
| 41) tetrahydrofuran | 3.37 | 42 | 264676 | 177.20 | ug/L | | 98 |
| 42) chloroform | 3.41 | 83 | 884496 | 189.30 | ug/L | | 99 |
| 44) methacrylonitrile | 3.33 | 67 | 273329 | 184.63 | ug/L | | 98 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 901687 | 192.82 | ug/L | | 98 |
| 46) cyclohexane | 3.58 | 84 | 814326 | 192.84 | ug/L | | 82 |
| 47) tert amyl alcohol | 3.72 | 55 | 195676 | 818.30 | ug/L | | 91 |
| 48) 1,1-dichloropropene | 3.62 | 75 | 748434 | 193.57 | ug/L | | 99 |
| 49) isobutyl alcohol | 3.81 | 42 | 107251 | 1888.76 | ug/L | | 97 |
| 50) carbon tetrachloride | 3.63 | 117 | 862307 | 202.14 | ug/L | | 99 |
| 51) isopropyl acetate | 3.74 | 87 | 137325 | 188.59 | ug/L | | 98 |
| 54) iso-octane | 3.81 | 57 | 1721588 | 202.00 | ug/L | | 99 |
| 55) epichlorohydrin | 4.72 | 57 | 428657 | 911.19 | ug/L | | 98 |
| 56) n-butyl alcohol | 4.06 | 56 | 1443691 | 9252.84 | ug/L | | 99 |
| 57) benzene | 3.75 | 78 | 2014722 | 197.95 | ug/L | | 99 |
| 58) tert-amyl methyl ether | 3.81 | 73 | 1470071 | 201.42 | ug/L | | 99 |
| 59) heptane | 3.91 | 57 | 304109 | 200.62 | ug/L | | 97 |
| 60) 1,2-dichloroethane | 3.78 | 62 | 710582 | 189.99 | ug/L | | 100 |
| 61) trichloroethene | 4.16 | 130 | 649884 | 195.96 | ug/L | | 96 |
| 62) ethyl acrylate | 4.19 | 55 | 871958 | 192.05 | ug/L | | 99 |
| 63) 2-nitropropane | 4.65 | 41 | 240722 | 213.02 | ug/L | | 99 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 1881078 | 966.10 | ug/L | | 99 |
| 65) methyl methacrylate | 4.34 | 100 | 176813 | 194.96 | ug/L | # | 85 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 209180 | 196.52 | ug/L | | 99 |
| 67) dibromomethane | 4.40 | 93 | 331760 | 192.10 | ug/L | | 97 |
| 68) methylcyclohexane | 4.33 | 83 | 906717 | 200.63 | ug/L | | 98 |
| 69) bromodichloromethane | 4.50 | 83 | 643217 | 198.87 | ug/L | | 100 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 755748 | 196.31 | ug/L | | 98 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 1155869 | 757.50 | ug/L | | 96 |
| 72) 3-methyl-1-butanol | 4.92 | 70 | 487344 | 3807.89 | ug/L | | 99 |
| 75) toluene | 5.04 | 92 | 1265426 | 205.21 | ug/L | | 97 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 700140 | 204.97 | ug/L | | 99 |
| 77) ethyl methacrylate | 5.22 | 69 | 643965 | 194.25 | ug/L | | 99 |
| 78) 1,1,2-trichloroethane | 5.35 | 83 | 374870 | 193.03 | ug/L | | 98 |
| 79) tetrachloroethene | 5.42 | 164 | 514208 | 203.33 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 693324 | 191.92 | ug/L | | 99 |
| 81) 2-hexanone | 5.49 | 58 | 1149637 | 755.29 | ug/L | | 96 |
| 82) butyl acetate | 5.57 | 56 | 390194 | 186.18 | ug/L | | 100 |
| 83) dibromochloromethane | 5.63 | 129 | 571936 | 205.13 | ug/L | | 99 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 512104 | 190.45 | ug/L | | 98 |
| 85) n-butyl ether | 6.15 | 57 | 2013304 | 193.97 | ug/L | | 99 |
| 86) chlorobenzene | 6.10 | 112 | 1364005 | 194.67 | ug/L | | 99 |
| 87) 1,1,1,2-tetrachloroethane | 6.16 | 131 | 550958 | 207.51 | ug/L | | 98 |
| 88) ethylbenzene | 6.16 | 91 | 2340764 | 199.14 | ug/L | | 100 |
| 89) m,p-xylene | 6.27 | 106 | 1849270 | 393.44 | ug/L | | 98 |
| 90) o-xylene | 6.58 | 91 | 1754534 | 195.99 | ug/L | | 99 |
| 91) styrene | 6.59 | 104 | 1483712 | 193.58 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200566.D
Acq On : 29 Sep 2022 2:37 am
Operator : PrashanS
Sample : IC8636-200
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 13:58:25 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration

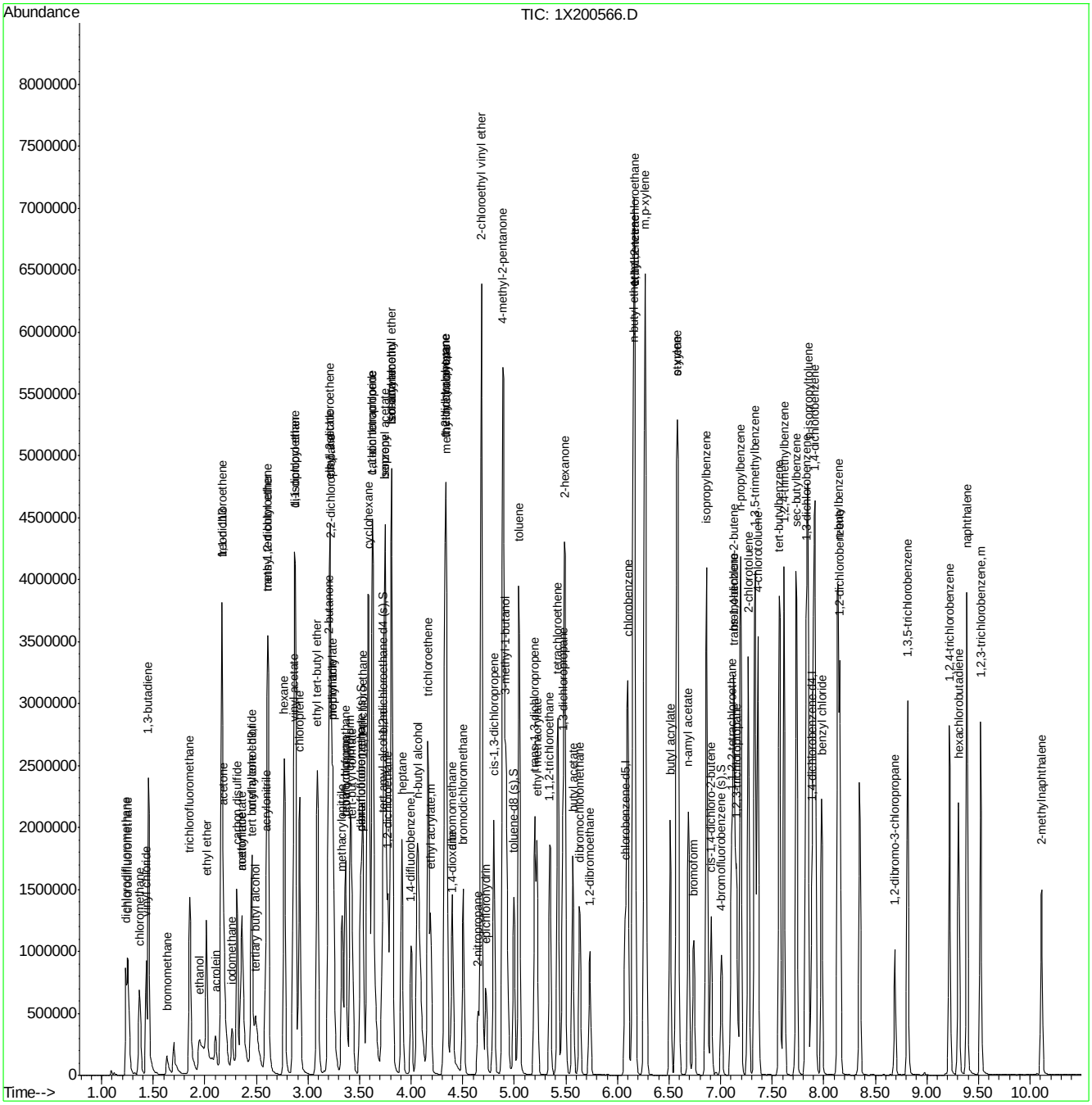
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 92) butyl acrylate | 6.51 | 55 | 1027815 | 184.84 | ug/L | 99 |
| 93) n-amyl acetate | 6.69 | 70 | 334133 | 179.87 | ug/L | 100 |
| 94) bromoform | 6.74 | 173 | 407843 | 211.22 | ug/L | 99 |
| 95) isopropylbenzene | 6.86 | 105 | 2235657 | 188.42 | ug/L | 99 |
| 96) cis-1,4-dichloro-2-butene | 6.91 | 88 | 241250 | 222.28 | ug/L | 94 |
| 99) bromobenzene | 7.13 | 156 | 599753 | 198.70 | ug/L | 96 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 628815 | 199.24 | ug/L | 100 |
| 101) trans-1,4-dichloro-2-buten | 7.14 | 53 | 202120 | 217.12 | ug/L | 95 |
| 102) 1,2,3-trichloropropane | 7.15 | 110 | 197908 | 194.26 | ug/L | 85 |
| 103) n-propylbenzene | 7.19 | 91 | 2463075 | 198.09 | ug/L | 98 |
| 104) 2-chlorotoluene | 7.27 | 126 | 549319 | 198.67 | ug/L | 97 |
| 105) 4-chlorotoluene | 7.36 | 91 | 1448793 | 200.54 | ug/L | 100 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 1719237 | 207.47 | ug/L | 99 |
| 107) tert-butylbenzene | 7.57 | 119 | 1557951 | 196.65 | ug/L | 99 |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 1695881 | 206.49 | ug/L | 100 |
| 109) sec-butylbenzene | 7.73 | 105 | 2205657 | 198.56 | ug/L | 100 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 1068141 | 197.70 | ug/L | 99 |
| 111) p-isopropyltoluene | 7.85 | 119 | 1935908 | 204.99 | ug/L | 99 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 1084102 | 197.46 | ug/L | 98 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 1010949 | 197.20 | ug/L | 99 |
| 114) benzyl chloride | 7.98 | 91 | 1085736 | 213.12 | ug/L | 99 |
| 115) n-butylbenzene | 8.13 | 92 | 879400 | 210.83 | ug/L | 98 |
| 116) 1,2-dibromo-3-chloropropan | 8.69 | 157 | 205566 | 208.99 | ug/L | 98 |
| 117) 1,3,5-trichlorobenzene | 8.81 | 180 | 701357 | 213.23 | ug/L | 98 |
| 118) hexachlorobutadiene | 9.31 | 225 | 270733 | 232.63 | ug/L | 97 |
| 119) naphthalene | 9.39 | 128 | 2191555 | 209.49 | ug/L | 99 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 628671 | 220.75 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 9.52 | 180 | 614604 | 220.62 | ug/L | 99 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 607200 | 106.90 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200566.D
Acq On : 29 Sep 2022 2:37 am
Operator : PrashanS
Sample : IC8636-200
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 29 13:58:25 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 08:34:36 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/29/22 15:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200572.D
Acq On : 29 Sep 2022 4:25 am
Operator : PrashanS
Sample : ICV8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 29 14:02:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 391418 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 434205 | 50.00 | ug/L | | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 605103 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 6.07 | 117 | 563236 | 50.00 | ug/L | | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 286830 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 201287 | 49.14 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.28% | | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 225424 | 48.74 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 97.48% | | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 667127 | 49.52 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.04% | | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 244573 | 49.11 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.22% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.94 | 45 | 169072 | 4516.73 | ug/L | | 98 |
| 3) tertiary butyl alcohol | 2.49 | 59 | 153202 | 258.70 | ug/L | | 98 |
| 4) 1,4-dioxane | 4.38 | 88 | 61693 | 1310.59 | ug/L | # | 1 |
| 7) dichlorodifluoromethane | 1.24 | 85 | 187939 | 54.05 | ug/L | | 100 |
| 8) chloromethane | 1.37 | 50 | 180414 | 49.71 | ug/L | | 99 |
| 9) vinyl chloride | 1.43 | 62 | 201319 | 52.54 | ug/L | | 100 |
| 10) bromomethane | 1.64 | 96 | 32529 | 61.21 | ug/L | | 97 |
| 11) chloroethane | 1.70 | 64 | 84075 | 49.55 | ug/L | | 99 |
| 12) trichlorofluoromethane | 1.86 | 101 | 264244 | 52.67 | ug/L | | 99 |
| 13) 1,3-butadiene | 1.46 | 54 | 214887 | 70.24 | ug/L | | 99 |
| 14) ethyl ether | 2.02 | 74 | 64361 | 50.44 | ug/L | | 93 |
| 15) acrolein | 2.10 | 56 | 38718 | 53.64 | ug/L | | 97 |
| 16) 1,1-dichloroethene | 2.17 | 96 | 125593 | 51.81 | ug/L | | 94 |
| 17) freon 113 | 2.17 | 101 | 141789 | 47.97 | ug/L | | 98 |
| 18) acetone | 2.18 | 58 | 73617 | 178.86 | ug/L | | 91 |
| 20) iodomethane | 2.27 | 142 | 64276 | 57.80 | ug/L | | 99 |
| 21) carbon disulfide | 2.32 | 76 | 324076 | 53.20 | ug/L | | 98 |
| 22) methylene chloride | 2.46 | 84 | 116613 | 49.63 | ug/L | | 96 |
| 23) methyl acetate | 2.36 | 43 | 180609 | 54.03 | ug/L | | 99 |
| 24) methyl tert butyl ether | 2.60 | 73 | 357300 | 51.04 | ug/L | | 98 |
| 26) trans-1,2-dichloroethene | 2.62 | 96 | 134871 | 51.39 | ug/L | | 95 |
| 27) hexane | 2.78 | 57 | 211789 | 51.15 | ug/L | | 99 |
| 28) di-isopropyl ether | 2.88 | 45 | 440006 | 50.42 | ug/L | | 96 |
| 29) 2-butanone | 3.19 | 72 | 96146 | 211.26 | ug/L | # | 83 |
| 30) 1,1-dichloroethane | 2.88 | 63 | 227985 | 50.07 | ug/L | | 99 |
| 31) chloroprene | 2.92 | 53 | 237865 | 55.22 | ug/L | | 99 |
| 32) vinyl acetate | 2.86 | 86 | 21545 | 42.61 | ug/L | | 100 |
| 33) ethyl tert-butyl ether | 3.09 | 59 | 391235 | 50.20 | ug/L | | 99 |
| 34) ethyl acetate | 3.21 | 45 | 36445 | 53.04 | ug/L | | 98 |
| 35) 2,2-dichloropropane | 3.22 | 77 | 183632 | 48.59 | ug/L | | 98 |
| 36) cis-1,2-dichloroethene | 3.21 | 96 | 142477 | 50.30 | ug/L | | 95 |
| 37) methyl acrylate | 3.24 | 55 | 212265 | 49.56 | ug/L | | 98 |
| 38) propionitrile | 3.23 | 54 | 294694 | 455.01 | ug/L | | 80 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200572.D
Acq On : 29 Sep 2022 4:25 am
Operator : PrashanS
Sample : ICV8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 29 14:02:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 39) tert-butyl formate | 3.43 | 59 | 48592 | 28.58 | ug/L | | 95 |
| 40) bromochloromethane | 3.36 | 128 | 69632 | 48.19 | ug/L | | 99 |
| 41) tetrahydrofuran | 3.37 | 42 | 70787 | 48.78 | ug/L | | 100 |
| 42) chloroform | 3.41 | 83 | 234374 | 49.93 | ug/L | | 100 |
| 44) methacrylonitrile | 3.33 | 67 | 71407 | 52.76 | ug/L | | 99 |
| 45) 1,1,1-trichloroethane | 3.53 | 97 | 228293 | 50.86 | ug/L | | 97 |
| 46) cyclohexane | 3.58 | 84 | 206084 | 50.22 | ug/L | | 91 |
| 47) tert amyl alcohol | 3.72 | 55 | 52620 | 227.95 | ug/L | | 100 |
| 48) 1,1-dichloropropene | 3.62 | 75 | 190604 | 51.67 | ug/L | | 99 |
| 49) isobutyl alcohol | 3.81 | 42 | 26121 | 449.33 | ug/L | # | 92 |
| 50) carbon tetrachloride | 3.63 | 117 | 206729 | 52.14 | ug/L | | 100 |
| 51) isopropyl acetate | 3.74 | 87 | 34116 | 54.06 | ug/L | # | 94 |
| 54) iso-octane | 3.81 | 57 | 406927 | 48.48 | ug/L | | 99 |
| 55) epichlorohydrin | 4.72 | 57 | 109150 | 259.43 | ug/L | | 100 |
| 56) n-butyl alcohol | 4.06 | 56 | 366828 | 2716.98 | ug/L | | 98 |
| 57) benzene | 3.75 | 78 | 511045 | 50.34 | ug/L | | 100 |
| 58) tert-amyl methyl ether | 3.81 | 73 | 344306 | 51.41 | ug/L | | 99 |
| 59) heptane | 3.91 | 57 | 81094 | 53.57 | ug/L | | 99 |
| 60) 1,2-dichloroethane | 3.78 | 62 | 182248 | 47.60 | ug/L | | 99 |
| 61) trichloroethene | 4.16 | 130 | 168161 | 53.20 | ug/L | | 97 |
| 62) ethyl acrylate | 4.19 | 55 | 209995 | 50.82 | ug/L | | 99 |
| 63) 2-nitropropane | 4.65 | 41 | 55779 | 54.86 | ug/L | | 99 |
| 64) 2-chloroethyl vinyl ether | 4.68 | 63 | 431050 | 245.10 | ug/L | | 99 |
| 65) methyl methacrylate | 4.34 | 100 | 46323 | 56.29 | ug/L | # | 89 |
| 66) 1,2-dichloropropane | 4.34 | 76 | 52177 | 52.58 | ug/L | | 99 |
| 67) dibromomethane | 4.40 | 93 | 83848 | 48.80 | ug/L | | 95 |
| 68) methylcyclohexane | 4.33 | 83 | 230385 | 54.14 | ug/L | | 99 |
| 69) bromodichloromethane | 4.50 | 83 | 158081 | 53.94 | ug/L | | 99 |
| 70) cis-1,3-dichloropropene | 4.80 | 75 | 184119 | 54.22 | ug/L | | 97 |
| 71) 4-methyl-2-pentanone | 4.89 | 58 | 294266 | 211.64 | ug/L | | 97 |
| 72) 3-methyl-1-butanol | 4.91 | 70 | 121836 | 1129.99 | ug/L | | 98 |
| 75) toluene | 5.04 | 92 | 320831 | 52.02 | ug/L | | 97 |
| 76) trans-1,3-dichloropropene | 5.20 | 75 | 168929 | 54.77 | ug/L | | 99 |
| 77) ethyl methacrylate | 5.22 | 69 | 155095 | 49.94 | ug/L | | 99 |
| 78) 1,1,2-trichloroethane | 5.34 | 83 | 97000 | 51.92 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 5.47 | 76 | 181358 | 50.68 | ug/L | | 98 |
| 81) 2-hexanone | 5.49 | 58 | 300763 | 207.24 | ug/L | | 99 |
| 82) butyl acetate | 5.57 | 56 | 105148 | 50.96 | ug/L | | 98 |
| 83) dibromochloromethane | 5.63 | 129 | 140790 | 57.35 | ug/L | | 100 |
| 84) 1,2-dibromoethane | 5.73 | 107 | 133487 | 53.55 | ug/L | | 98 |
| 85) n-butyl ether | 6.15 | 57 | 506416 | 50.68 | ug/L | | 99 |
| 86) chlorobenzene | 6.10 | 112 | 356168 | 50.90 | ug/L | | 99 |
| 87) 1,1,1,2-tetrachloroethane | 6.16 | 131 | 133651 | 55.55 | ug/L | | 98 |
| 88) ethylbenzene | 6.16 | 91 | 607788 | 51.43 | ug/L | | 100 |
| 89) m,p-xylene | 6.27 | 106 | 488844 | 105.10 | ug/L | | 98 |
| 90) o-xylene | 6.57 | 91 | 464494 | 52.58 | ug/L | | 100 |
| 91) styrene | 6.59 | 104 | 392224 | 52.32 | ug/L | | 99 |
| 92) butyl acrylate | 6.51 | 55 | 266323 | 52.57 | ug/L | | 98 |
| 93) n-amyl acetate | 6.69 | 70 | 88673 | 52.61 | ug/L | | 99 |
| 94) bromoform | 6.74 | 173 | 95717 | 58.72 | ug/L | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200572.D
Acq On : 29 Sep 2022 4:25 am
Operator : PrashanS
Sample : ICV8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 29 14:02:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

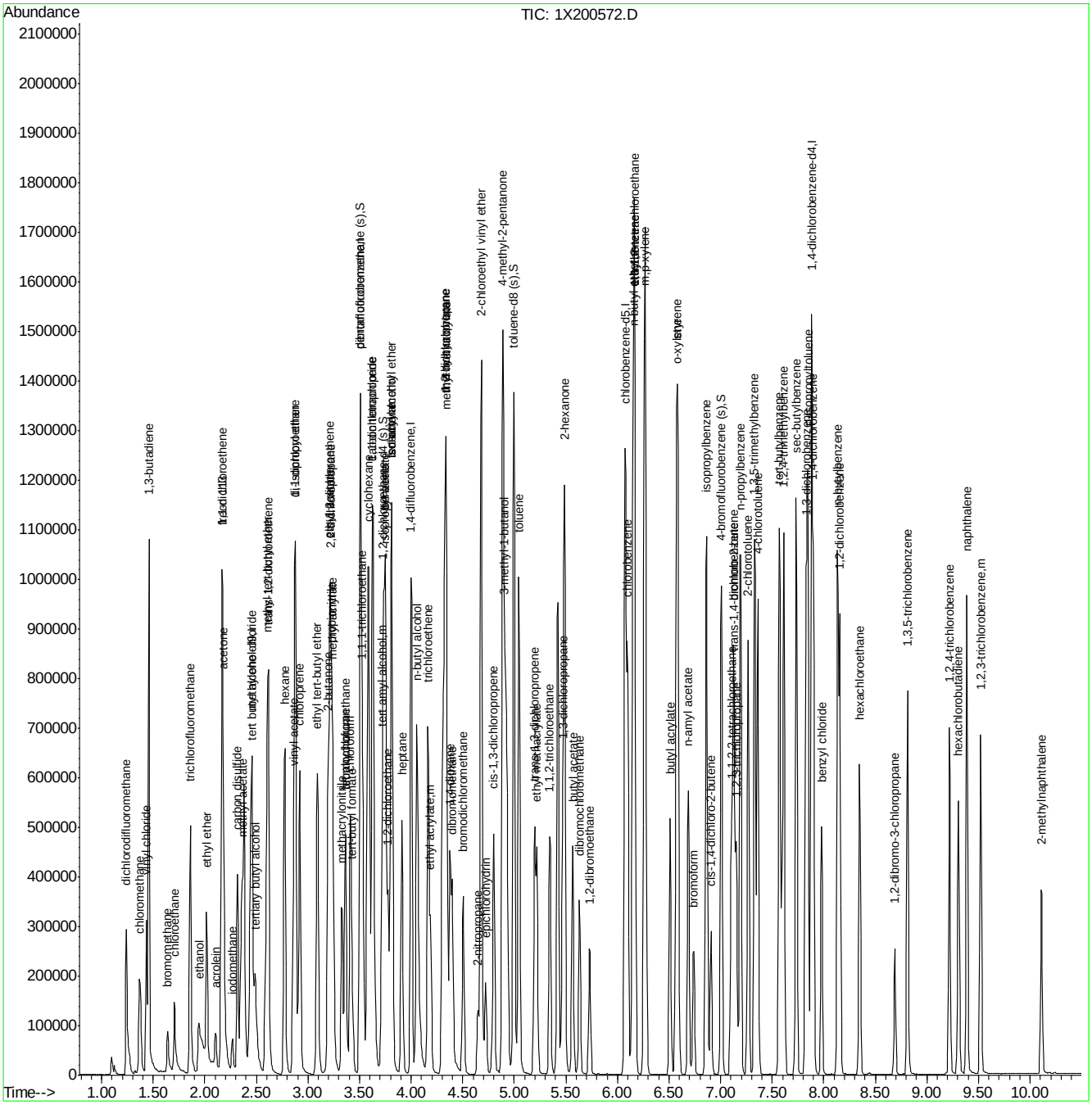
| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 95) isopropylbenzene | 6.86 | 105 | 613390 | 53.26 ug/L | 100 |
| 96) cis-1,4-dichloro-2-butene | 6.91 | 88 | 49202 | 43.63 ug/L | 99 |
| 99) bromobenzene | 7.13 | 156 | 160325 | 50.92 ug/L | 96 |
| 100) 1,1,2,2-tetrachloroethane | 7.10 | 83 | 166782 | 53.49 ug/L | 99 |
| 101) trans-1,4-dichloro-2-buten | 7.14 | 53 | 51103 | 56.33 ug/L | 97 |
| 102) 1,2,3-trichloropropane | 7.15 | 110 | 52867 | 51.36 ug/L | 97 |
| 103) n-propylbenzene | 7.19 | 91 | 680262 | 52.25 ug/L | 99 |
| 104) 2-chlorotoluene | 7.27 | 126 | 150278 | 51.97 ug/L | 98 |
| 105) 4-chlorotoluene | 7.36 | 91 | 388862 | 51.26 ug/L | 99 |
| 106) 1,3,5-trimethylbenzene | 7.33 | 105 | 452045 | 53.18 ug/L | 99 |
| 107) tert-butylbenzene | 7.57 | 119 | 445881m | 53.91 ug/L | |
| 108) 1,2,4-trimethylbenzene | 7.62 | 105 | 445603 | 51.75 ug/L | 100 |
| 109) sec-butylbenzene | 7.73 | 105 | 610221 | 53.65 ug/L | 99 |
| 110) 1,3-dichlorobenzene | 7.83 | 146 | 291641 | 51.76 ug/L | 99 |
| 111) p-isopropyltoluene | 7.85 | 119 | 517243 | 53.65 ug/L | 100 |
| 112) 1,4-dichlorobenzene | 7.90 | 146 | 291047 | 50.12 ug/L | 99 |
| 113) 1,2-dichlorobenzene | 8.16 | 146 | 275182 | 52.23 ug/L | 99 |
| 114) benzyl chloride | 7.98 | 91 | 241622 | 51.85 ug/L | 99 |
| 115) n-butylbenzene | 8.13 | 92 | 227418 | 53.62 ug/L | 100 |
| 116) 1,2-dibromo-3-chloropropan | 8.69 | 157 | 51840 | 55.51 ug/L | 99 |
| 117) 1,3,5-trichlorobenzene | 8.81 | 180 | 174428 | 51.52 ug/L | 98 |
| 118) hexachlorobutadiene | 9.30 | 225 | 65334 | 54.14 ug/L | 99 |
| 119) naphthalene | 9.39 | 128 | 550776 | 49.72 ug/L | 100 |
| 120) 1,2,4-trichlorobenzene | 9.22 | 180 | 153935 | 52.20 ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 9.52 | 180 | 148252 | 51.60 ug/L | 99 |
| 122) hexachloroethane | 8.35 | 201 | 65533 | 51.89 ug/L | 98 |
| 123) 2-methylnaphthalene | 10.11 | 142 | 149736 | 27.67 ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200572.D
Acq On : 29 Sep 2022 4:25 am
Operator : PrashanS
Sample : ICV8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 29 14:02:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | V1X8636-ICV8636 | **Method:** | SW846 8260D |
| **Lab FileID:** | 1X200572.D | **Analyst approved:** | 09/29/22 14:18 Bridget Kelly |
| **Injection Time:** | 09/29/22 04:25 | **Supervisor approved:** | 09/29/22 15:49 Kanya Veerawat |

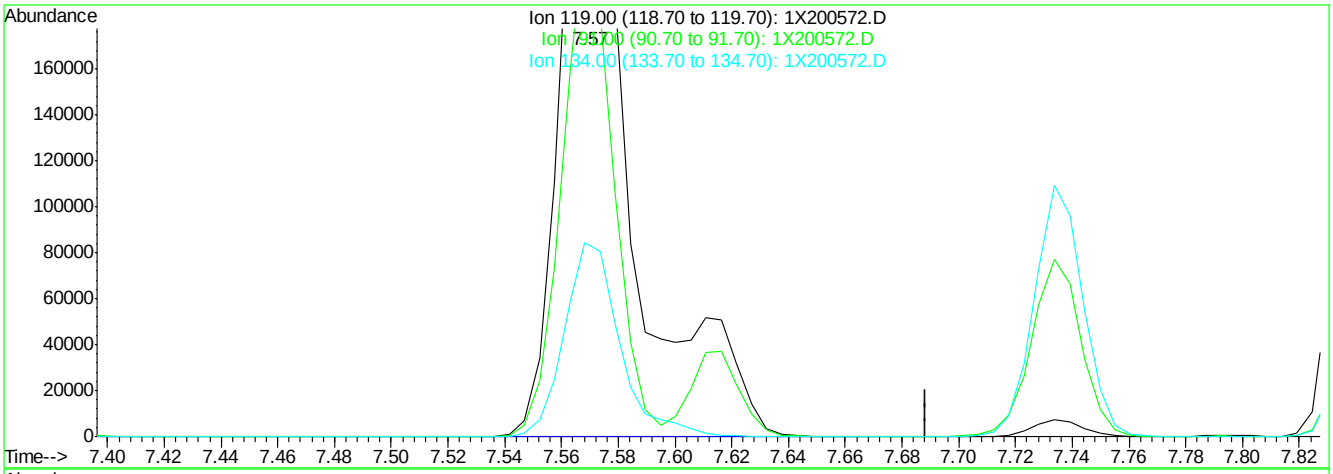
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| tert-Butylbenzene | 98-06-6 | | 7.57 | Overlapping peak |

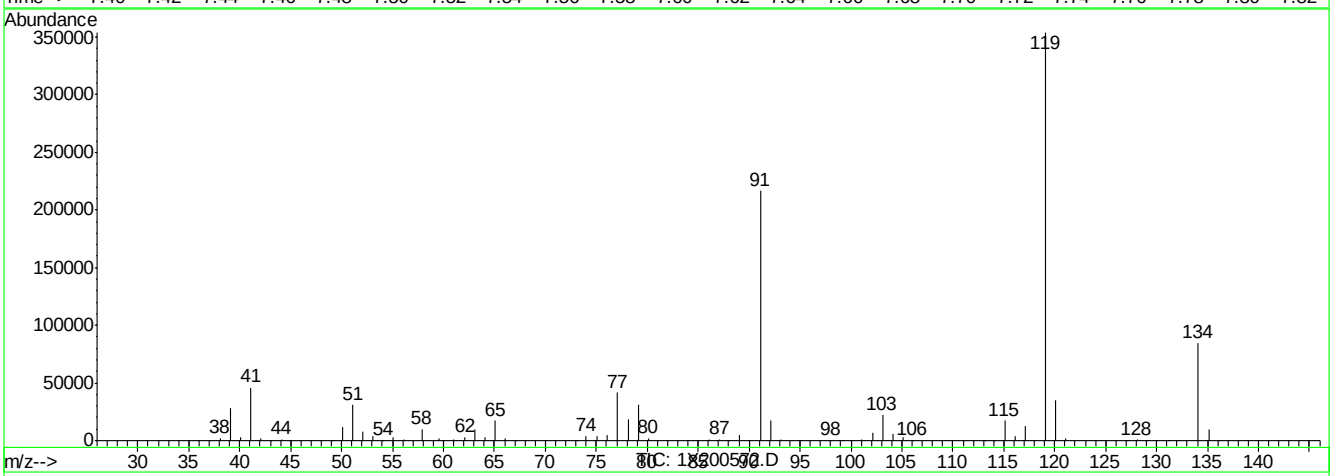
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\VX8636\1X200572.D Vial: 14
Acq On : 29 Sep 2022 4:25 am Operator: PrashanS
Sample : ICV8636-50 Inst : ACC-VOA-M
Misc : MS62283,V1X8636,5,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Quant Time: Sep 29 14:00:40 2022 Results File: M1X8636.RES

Method : C:\MSDCHEM\1\METHODS\M1X8636.M (RTE Integrator)
Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
Last Update : Thu Sep 29 10:06:17 2022
Response via : Multiple Level Calibration




(107) tert-butylbenzene

7.57min 64.72ug/L

response 535333

| Ion | Exp% | Act% |
|---|---|---|
| 119.00 | 100 | 100 |
| 91.00 | 62.50 | 61.20 |
| 134.00 | 24.60 | 23.91 |
| 0.00 | 0.00 | 0.00 |

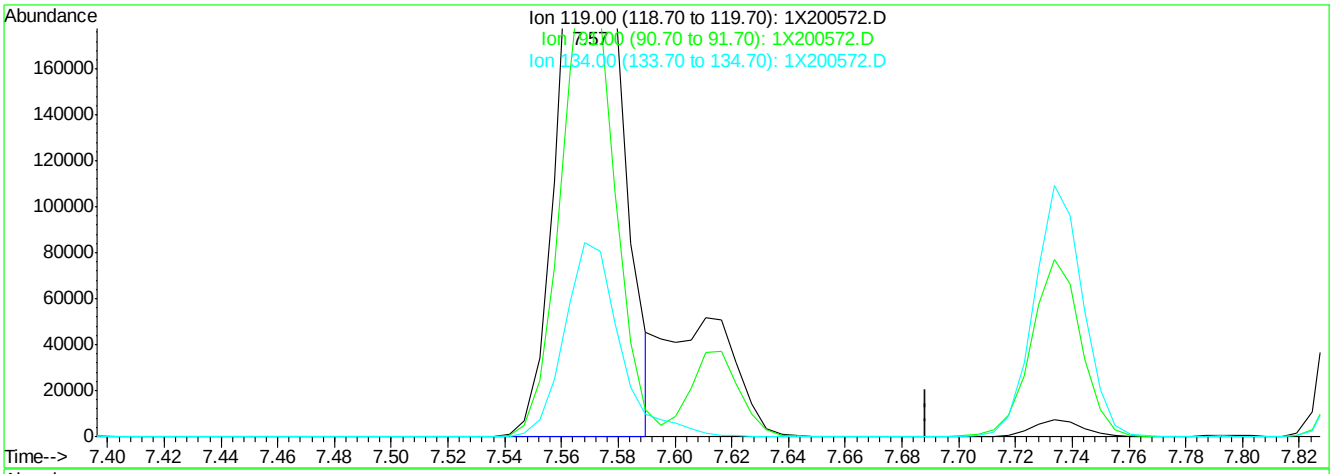
1X200572.D M1X8636.M Thu Sep 29 14:02:19 2022 GCMSX

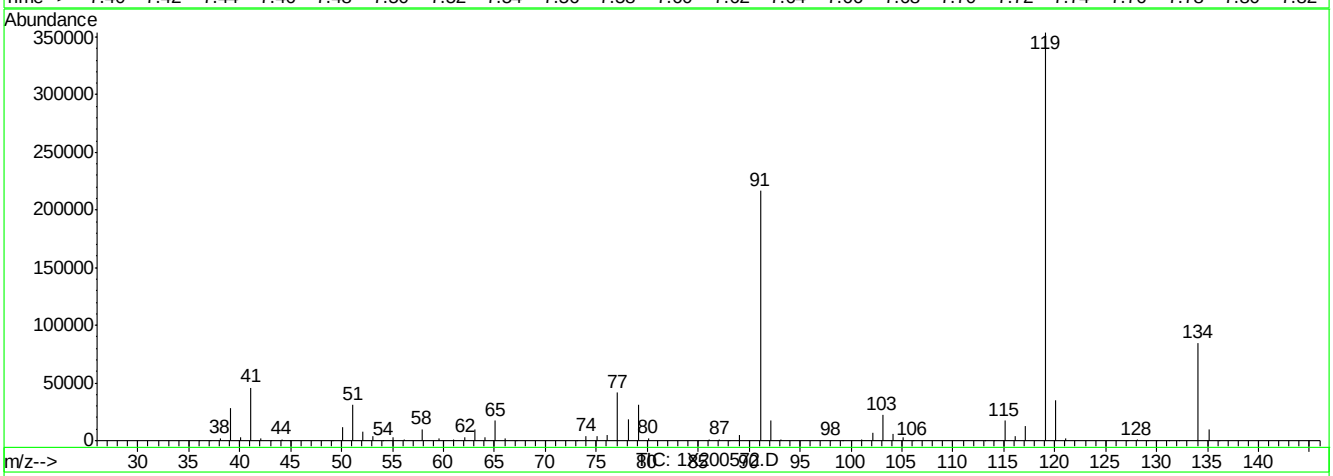
Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\VX8636\1X200572.D Vial: 14
Acq On : 29 Sep 2022 4:25 am Operator: PrashanS
Sample : ICV8636-50 Inst : ACC-VOA-M
Misc : MS62283,V1X8636,5,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Quant Time: Sep 29 14:00:40 2022 Results File: M1X8636.RES

Method : C:\MSDCHEM\1\METHODS\M1X8636.M (RTE Integrator)
Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
Last Update : Thu Sep 29 10:06:17 2022
Response via : Multiple Level Calibration




(107) tert-butylbenzene

7.57min 53.91ug/L m

response 445881

| Ion | Exp% | Act% |
|---|---|---|
| 119.00 | 100 | 100 |
| 91.00 | 62.50 | 61.20 |
| 134.00 | 24.60 | 23.91 |
| 0.00 | 0.00 | 0.00 |

1X200572.D M1X8636.M Thu Sep 29 14:02:24 2022 GCMSX

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200574.D
Acq On : 29 Sep 2022 5:02 am
Operator : PrashanS
Sample : ICV8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 14:01:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

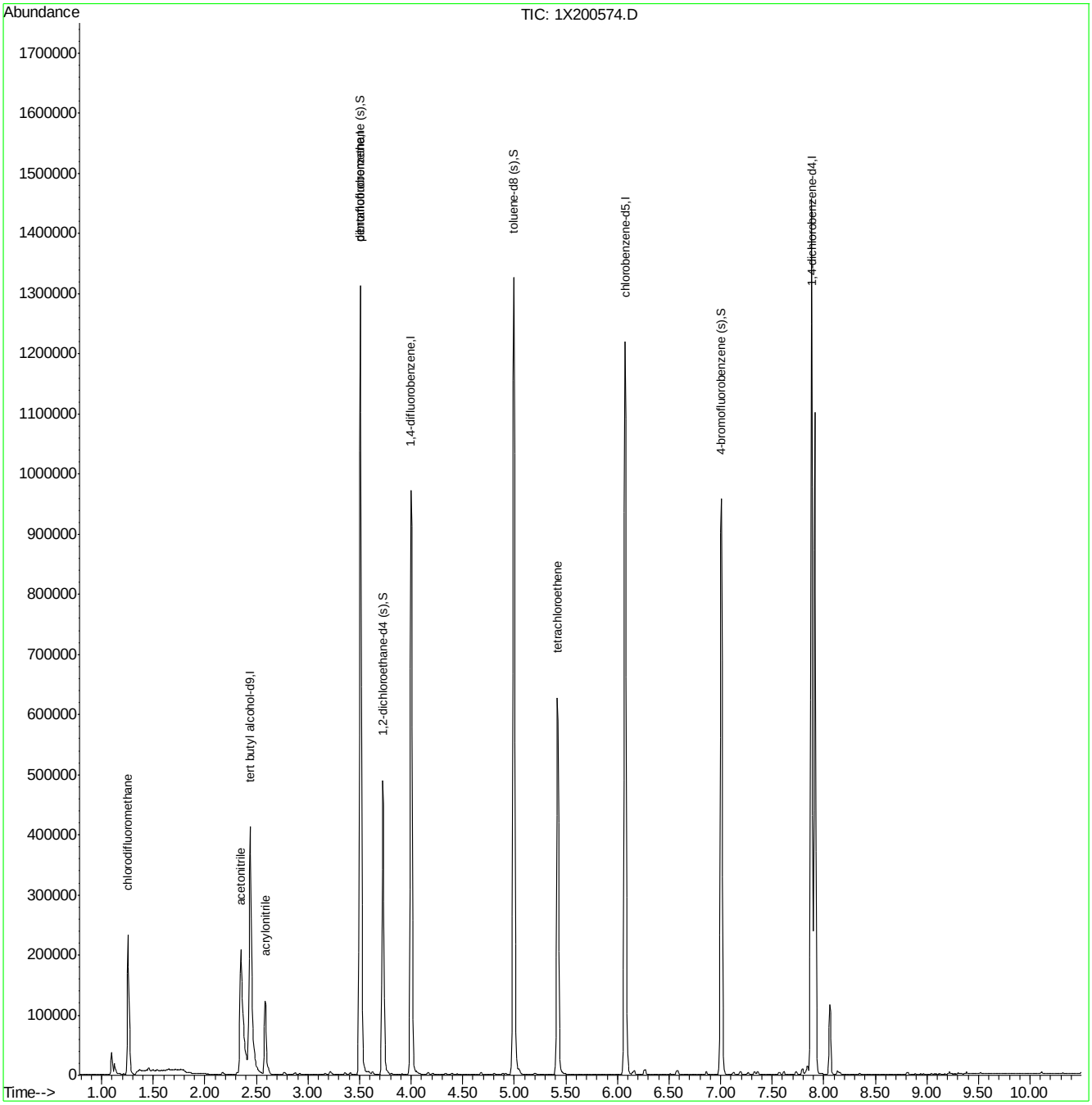
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.44 | 65 | 360839 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.51 | 168 | 426110 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 4.00 | 114 | 580783 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.07 | 117 | 551871 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.88 | 152 | 280923 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 3.51 | 113 | 194852 | 48.48 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.96% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.73 | 65 | 225525 | 50.80 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.60% | | | |
| 74) toluene-d8 (s) | 5.00 | 98 | 650879 | 49.31 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.62% | | | |
| 98) 4-bromofluorobenzene (s) | 7.01 | 95 | 242608 | 49.74 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.48% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 6) chlorodifluoromethane | 1.25 | 51 | 192908 | 53.09 | ug/L | 96 |
| 19) acetonitrile | 2.35 | 41 | 251572 | 450.22 | ug/L | 97 |
| 25) acrylonitrile | 2.58 | 53 | 63236 | 41.53 | ug/L | 99 |
| 79) tetrachloroethene | 5.42 | 164 | 115359 | 47.59 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\VX8636\
Data File : 1X200574.D
Acq On : 29 Sep 2022 5:02 am
Operator : PrashanS
Sample : ICV8636-50
Misc : MS62283,V1X8636,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 29 14:01:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200580.d
Acq On : 29 Sep 2022 10:06 am
Operator : PrashanS
Sample : cc8636-20 Inst : ACC-VOA-MSX
Misc : MS62283,V1X8637,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 29 10:16:53 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.434 | 65 | 400214 | 500.00 | ug/L | -0.01 |
| 5) pentafluorobenzene | 3.502 | 168 | 434580 | 50.00 | ug/L | 0.00 |
| 52) 1,4-difluorobenzene | 3.998 | 114 | 604917 | 50.00 | ug/L | 0.00 |
| 73) chlorobenzene-d5 | 6.074 | 117 | 559026 | 50.00 | ug/L | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 280010 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 3.507 | 113 | 196845 | 48.02 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.04% | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.726 | 65 | 227880 | 49.28 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.56% | | | |
| 74) toluene-d8 (s) | 4.991 | 98 | 658865 | 49.27 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.54% | | | |
| 98) 4-bromofluorobenzene (s) | 7.003 | 95 | 241210 | 49.62 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.24% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 1.938 | 45 | 79766 | 2084.10 | ug/L | 98 |
| 3) tertiary butyl alcohol | 2.482 | 59 | 57224 | 94.51 | ug/L | 98 |
| 4) 1,4-dioxane | 4.371 | 88 | 23839 | 495.30 | ug/L | 95 |
| 6) chlorodifluoromethane | 1.249 | 51 | 66327 | 17.90 | ug/L | 99 |
| 7) dichlorodifluoromethane | 1.233 | 85 | 57632 | 16.56 | ug/L | 99 |
| 8) chloromethane | 1.361 | 50 | 60134 | 16.55 | ug/L | 96 |
| 9) vinyl chloride | 1.426 | 62 | 62630 | 16.33 | ug/L | 100 |
| 10) bromomethane | 1.634 | 96 | 13004 | 24.45 | ug/L | 96 |
| 11) chloroethane | 1.703 | 64 | 27844 | 16.39 | ug/L | 98 |
| 12) trichlorofluoromethane | 1.852 | 101 | 84647 | 16.86 | ug/L | 99 |
| 13) 1,3-butadiene | 1.452 | 54 | 57655 | 18.83 | ug/L | 99 |
| 14) ethyl ether | 2.013 | 74 | 23227 | 18.19 | ug/L | 94 |
| 15) acrolein | 2.098 | 56 | 14254 | 19.73 | ug/L | 98 |
| 16) 1,1-dichloroethene | 2.167 | 96 | 45011 | 18.55 | ug/L | 99 |
| 17) freon 113 | 2.162 | 101 | 54920 | 18.56 | ug/L | 98 |
| 18) acetone | 2.178 | 58 | 28781 | 69.86 | ug/L | 100 |
| 19) acetonitrile | 2.343 | 41 | 106735 | 187.29 | ug/L | 99 |
| 20) iodomethane | 2.263 | 142 | 19629 | 17.64 | ug/L | 97 |
| 21) carbon disulfide | 2.311 | 76 | 115235 | 18.90 | ug/L | 99 |
| 22) methylene chloride | 2.456 | 84 | 42816 | 18.21 | ug/L | 95 |
| 23) methyl acetate | 2.359 | 43 | 60907 | 18.20 | ug/L | 96 |
| 24) methyl tert butyl ether | 2.600 | 73 | 126114 | 18.00 | ug/L | 99 |
| 25) acrylonitrile | 2.584 | 53 | 29567 | 19.04 | ug/L | 99 |
| 26) trans-1,2-dichloroethene | 2.616 | 96 | 47919 | 18.24 | ug/L | 98 |
| 27) hexane | 2.770 | 57 | 78782 | 19.01 | ug/L | 100 |
| 28) di-isopropyl ether | 2.872 | 45 | 158480 | 18.15 | ug/L | 99 |
| 29) 2-butanone | 3.187 | 72 | 34329 | 75.37 | ug/L # | 85 |
| 30) 1,1-dichloroethane | 2.872 | 63 | 81266 | 17.83 | ug/L | 99 |
| 31) chloroprene | 2.914 | 53 | 80995 | 18.79 | ug/L | 99 |
| 32) vinyl acetate | 2.856 | 86 | 9867 | 19.50 | ug/L # | 87 |
| 33) ethyl tert-butyl ether | 3.085 | 59 | 142388 | 18.25 | ug/L | 99 |
| 34) ethyl acetate | 3.203 | 45 | 13026 | 18.94 | ug/L | 95 |
| 35) 2,2-dichloropropane | 3.219 | 77 | 72550 | 19.18 | ug/L | 96 |
| 36) cis-1,2-dichloroethene | 3.208 | 96 | 50484 | 17.81 | ug/L | 91 |
| 37) methyl acrylate | 3.235 | 55 | 81098 | 18.92 | ug/L | 96 |
| 38) propionitrile | 3.229 | 54 | 122248 | 188.59 | ug/L # | 67 |
| 39) tert-butyl formate | 3.422 | 59 | 35641 | 20.95 | ug/L | 97 |
| 40) bromochloromethane | 3.357 | 128 | 26377 | 18.24 | ug/L | 97 |
| 41) tetrahydrofuran | 3.363 | 42 | 26295 | 18.10 | ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200580.d
Acq On : 29 Sep 2022 10:06 am
Operator : PrashanS
Sample : cc8636-20 Inst : ACC-VOA-MSX
Misc : MS62283,V1X8637,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 29 10:16:53 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) chloroform | 3.406 | 83 | 80786 | 17.20 | ug/L | | 97 |
| 44) methacrylonitrile | 3.325 | 67 | 25760 | 19.02 | ug/L | | 96 |
| 45) 1,1,1-trichloroethane | 3.523 | 97 | 80801 | 17.99 | ug/L | | 85 |
| 46) cyclohexane | 3.576 | 84 | 66467 | 16.18 | ug/L | | 96 |
| 47) tert amyl alcohol | 3.710 | 55 | 21191 | 91.72 | ug/L | | 95 |
| 48) 1,1-dichloropropene | 3.619 | 75 | 67652 | 18.32 | ug/L | | 98 |
| 49) isobutyl alcohol | 3.806 | 42 | 10586 | 181.94 | ug/L | # | 96 |
| 50) carbon tetrachloride | 3.624 | 117 | 71401 | 17.99 | ug/L | | 100 |
| 51) isopropyl acetate | 3.736 | 87 | 12171 | 19.27 | ug/L | # | 85 |
| 54) iso-octane | 3.806 | 57 | 157745 | 18.80 | ug/L | | 99 |
| 55) epichlorohydrin | 4.718 | 57 | 42681 | 101.48 | ug/L | | 95 |
| 56) n-butyl alcohol | 4.051 | 56 | 143718 | 1064.80 | ug/L | | 97 |
| 57) benzene | 3.747 | 78 | 180902 | 17.83 | ug/L | | 100 |
| 58) tert-amyl methyl ether | 3.806 | 73 | 125640 | 18.77 | ug/L | | 99 |
| 59) heptane | 3.907 | 57 | 29810 | 19.70 | ug/L | | 98 |
| 60) 1,2-dichloroethane | 3.774 | 62 | 67545 | 17.65 | ug/L | | 98 |
| 61) trichloroethene | 4.163 | 130 | 58476 | 18.50 | ug/L | | 99 |
| 62) ethyl acrylate | 4.185 | 55 | 80091 | 19.39 | ug/L | | 99 |
| 63) 2-nitropropane | 4.644 | 41 | 19201 | 18.89 | ug/L | | 92 |
| 64) 2-chloroethyl vinyl ether | 4.676 | 63 | 173506 | 98.69 | ug/L | | 100 |
| 65) methyl methacrylate | 4.345 | 100 | 15461 | 18.79 | ug/L | # | 68 |
| 66) 1,2-dichloropropane | 4.334 | 76 | 18531 | 18.68 | ug/L | | 98 |
| 67) dibromomethane | 4.393 | 93 | 30522 | 17.77 | ug/L | | 97 |
| 68) methylcyclohexane | 4.323 | 83 | 79696 | 18.73 | ug/L | | 98 |
| 69) bromodichloromethane | 4.500 | 83 | 54322 | 18.54 | ug/L | | 99 |
| 70) cis-1,3-dichloropropene | 4.798 | 75 | 67137 | 19.78 | ug/L | | 98 |
| 71) 4-methyl-2-pentanone | 4.884 | 58 | 108694 | 78.20 | ug/L | | 97 |
| 72) 3-methyl-1-butanol | 4.910 | 70 | 46093 | 427.63 | ug/L | | 95 |
| 75) toluene | 5.044 | 92 | 113560 | 18.55 | ug/L | | 97 |
| 76) trans-1,3-dichloropropene | 5.193 | 75 | 60644 | 19.81 | ug/L | | 99 |
| 77) ethyl methacrylate | 5.215 | 69 | 58139 | 18.86 | ug/L | | 99 |
| 78) 1,1,2-trichloroethane | 5.343 | 83 | 34422 | 18.56 | ug/L | | 96 |
| 79) tetrachloroethene | 5.418 | 164 | 46050 | 18.76 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 5.466 | 76 | 65081 | 18.32 | ug/L | | 98 |
| 81) 2-hexanone | 5.487 | 58 | 112213 | 77.90 | ug/L | | 96 |
| 82) butyl acetate | 5.562 | 56 | 37843 | 18.48 | ug/L | | 96 |
| 83) dibromochloromethane | 5.631 | 129 | 46167 | 18.95 | ug/L | | 99 |
| 84) 1,2-dibromoethane | 5.727 | 107 | 47429 | 19.17 | ug/L | | 92 |
| 85) n-butyl ether | 6.143 | 57 | 182350 | 18.39 | ug/L | | 99 |
| 86) chlorobenzene | 6.095 | 112 | 126873 | 18.27 | ug/L | | 99 |
| 87) 1,1,1,2-tetrachloroethane | 6.159 | 131 | 45303 | 18.97 | ug/L | | 99 |
| 88) ethylbenzene | 6.165 | 91 | 212578 | 18.12 | ug/L | | 99 |
| 89) m,p-xylene | 6.266 | 106 | 171930 | 37.24 | ug/L | | 98 |
| 90) o-xylene | 6.570 | 91 | 161860 | 18.46 | ug/L | | 100 |
| 91) styrene | 6.586 | 104 | 136694 | 18.37 | ug/L | | 96 |
| 92) butyl acrylate | 6.506 | 55 | 97905 | 19.47 | ug/L | | 98 |
| 93) n-amyl acetate | 6.682 | 70 | 32723 | 19.56 | ug/L | | 93 |
| 94) bromoform | 6.736 | 173 | 30978 | 19.15 | ug/L | | 95 |
| 95) isopropylbenzene | 6.858 | 105 | 212185 | 18.56 | ug/L | | 99 |
| 96) cis-1,4-dichloro-2-butene | 6.907 | 88 | 19128 | 18.79 | ug/L | | 95 |
| 99) bromobenzene | 7.120 | 156 | 57336 | 18.65 | ug/L | | 93 |
| 100) 1,1,2,2-tetrachloroethane | 7.099 | 83 | 60370 | 19.83 | ug/L | | 100 |
| 101) trans-1,4-dichloro-2-b... | 7.131 | 53 | 18298 | 20.66 | ug/L | | 88 |
| 102) 1,2,3-trichloropropane | 7.152 | 110 | 19253 | 19.16 | ug/L | | 92 |
| 103) n-propylbenzene | 7.189 | 91 | 241325 | 18.99 | ug/L | | 99 |
| 104) 2-chlorotoluene | 7.264 | 126 | 53172 | 18.84 | ug/L | | 96 |
| 105) 4-chlorotoluene | 7.355 | 91 | 135412 | 18.29 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200580.d
Acq On : 29 Sep 2022 10:06 am
Operator : PrashanS
Sample : cc8636-20 Inst : ACC-VOA-MSX
Misc : MS62283,V1X8637,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 29 10:16:53 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

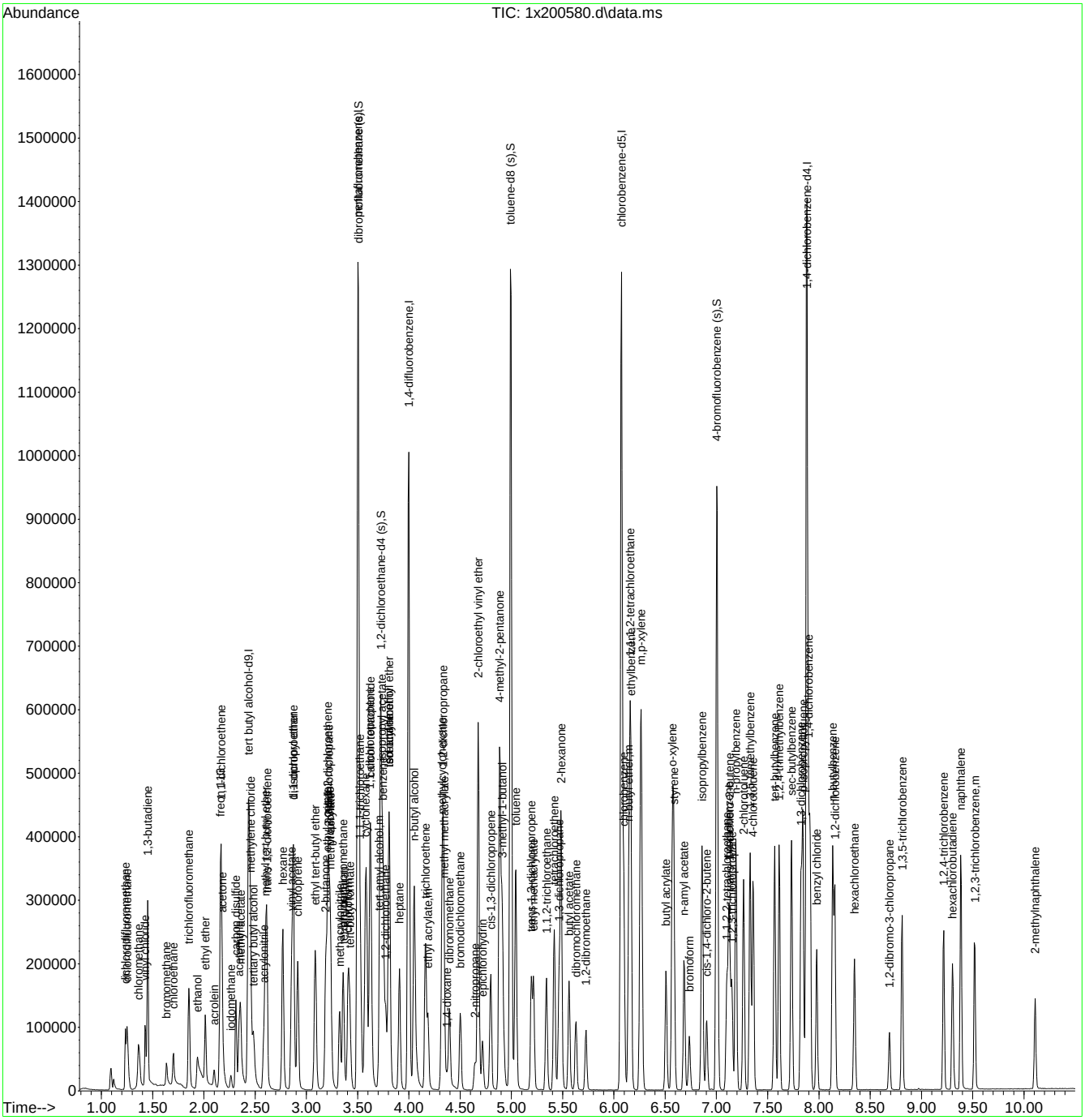
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) 1,3,5-trimethylbenzene | 7.328 | 105 | 155944 | 18.79 | ug/L | 98 |
| 107) tert-butylbenzene | 7.568 | 119 | 152274 | 18.86 | ug/L | 100 |
| 108) 1,2,4-trimethylbenzene | 7.611 | 105 | 154709 | 18.41 | ug/L | 99 |
| 109) sec-butylbenzene | 7.734 | 105 | 213384 | 19.22 | ug/L | 98 |
| 110) 1,3-dichlorobenzene | 7.824 | 146 | 104032 | 18.91 | ug/L | 99 |
| 111) p-isopropyltoluene | 7.846 | 119 | 182289 | 19.37 | ug/L | 99 |
| 112) 1,4-dichlorobenzene | 7.899 | 146 | 105339 | 18.58 | ug/L | 98 |
| 113) 1,2-dichlorobenzene | 8.155 | 146 | 98450 | 19.14 | ug/L | 99 |
| 114) benzyl chloride | 7.979 | 91 | 108603 | 23.87 | ug/L | 97 |
| 115) n-butylbenzene | 8.134 | 92 | 79809 | 19.27 | ug/L | 96 |
| 116) 1,2-dibromo-3-chloropr... | 8.689 | 157 | 18489 | 20.28 | ug/L | 95 |
| 117) 1,3,5-trichlorobenzene | 8.812 | 180 | 62830 | 19.01 | ug/L | 98 |
| 118) hexachlorobutadiene | 9.303 | 225 | 23683 | 20.10 | ug/L | 99 |
| 119) naphthalene | 9.383 | 128 | 205470 | 19.00 | ug/L | 99 |
| 120) 1,2,4-trichlorobenzene | 9.217 | 180 | 55610 | 19.32 | ug/L | 97 |
| 121) 1,2,3-trichlorobenzene | 9.522 | 180 | 53166 | 18.96 | ug/L | 98 |
| 122) hexachloroethane | 8.347 | 201 | 19256 | 16.54 | ug/L | 84 |
| 123) 2-methylnaphthalene | 10.109 | 142 | 53538 | 10.14 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\davem1\10-03-22\v1x8637\
Data File : 1x200580.d
Acq On : 29 Sep 2022 10:06 am
Operator : PrashanS
Sample : cc8636-20 Inst : ACC-VOA-MSX
Misc : MS62283,V1X8637,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Results File: M1X8636.RES
Quant Time: Sep 29 10:16:53 2022
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-30-22\v1x8638\
Data File : 1x200612.d
Acq On : 29 Sep 2022 10:33 pm
Operator : taylors
Sample : cc8636-20/bs
Misc : MS62553,V1X8638,5,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 30 14:33:57 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) tert butyl alcohol-d9 | 2.440 | 65 | 386027 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.507 | 168 | 428974 | 50.00 | ug/L | | 0.00 |
| 52) 1,4-difluorobenzene | 3.998 | 114 | 596813 | 50.00 | ug/L | | 0.00 |
| 73) chlorobenzene-d5 | 6.074 | 117 | 555129 | 50.00 | ug/L | | 0.00 |
| 97) 1,4-dichlorobenzene-d4 | 7.883 | 152 | 278409 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 3.507 | 113 | 193071 | 47.71 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.42% | | | | |
| 53) 1,2-dichloroethane-d4 (s) | 3.726 | 65 | 223549 | 49.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.00% | | | | |
| 74) toluene-d8 (s) | 4.996 | 98 | 651123 | 49.04 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.08% | | | | |
| 98) 4-bromofluorobenzene (s) | 7.003 | 95 | 237508 | 49.14 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.28% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.938 | 45 | 74674 | 2022.76 | ug/L | | 96 |
| 3) tertiary butyl alcohol | 2.488 | 59 | 54560 | 93.42 | ug/L | | 94 |
| 4) 1,4-dioxane | 4.377 | 88 | 23172 | 499.14 | ug/L | # | 1 |
| 7) dichlorodifluoromethane | 1.233 | 85 | 76419 | 22.24 | ug/L | | 100 |
| 8) chloromethane | 1.361 | 50 | 66799 | 18.63 | ug/L | | 99 |
| 9) vinyl chloride | 1.426 | 62 | 77091 | 20.37 | ug/L | | 97 |
| 10) bromomethane | 1.634 | 96 | 9885 | 18.83 | ug/L | | 98 |
| 11) chloroethane | 1.703 | 64 | 33374 | 19.91 | ug/L | | 98 |
| 12) trichlorofluoromethane | 1.852 | 101 | 98210 | 19.81 | ug/L | | 98 |
| 13) 1,3-butadiene | 1.452 | 54 | 89117 | 29.48 | ug/L | | 99 |
| 14) ethyl ether | 2.013 | 74 | 21920 | 17.39 | ug/L | | 96 |
| 15) acrolein | 2.103 | 56 | 13911 | 19.51 | ug/L | | 96 |
| 16) 1,1-dichloroethene | 2.167 | 96 | 39785 | 16.61 | ug/L | | 97 |
| 17) freon 113 | 2.162 | 101 | 46672 | 15.98 | ug/L | | 96 |
| 18) acetone | 2.178 | 58 | 25996 | 63.93 | ug/L | | 98 |
| 19) acetonitrile | 2.349 | 41 | 65932 | 117.21 | ug/L | | 99 |
| 20) iodomethane | 2.263 | 142 | 16202 | 14.75 | ug/L | | 97 |
| 21) carbon disulfide | 2.311 | 76 | 96219 | 15.99 | ug/L | | 100 |
| 22) methylene chloride | 2.456 | 84 | 39561 | 17.04 | ug/L | | 99 |
| 23) methyl acetate | 2.359 | 43 | 63095 | 19.10 | ug/L | | 98 |
| 24) methyl tert butyl ether | 2.600 | 73 | 121843 | 17.62 | ug/L | | 98 |
| 25) acrylonitrile | 2.584 | 53 | 27403 | 17.88 | ug/L | | 98 |
| 26) trans-1,2-dichloroethene | 2.616 | 96 | 42538 | 16.41 | ug/L | | 98 |
| 27) hexane | 2.770 | 57 | 79954 | 19.55 | ug/L | | 99 |
| 28) di-isopropyl ether | 2.872 | 45 | 148172 | 17.19 | ug/L | | 99 |
| 29) 2-butanone | 3.192 | 72 | 33186 | 73.81 | ug/L | | 98 |
| 30) 1,1-dichloroethane | 2.872 | 63 | 74429 | 16.55 | ug/L | | 99 |
| 31) chloroprene | 2.914 | 53 | 76864 | 18.06 | ug/L | | 99 |
| 32) vinyl acetate | 2.856 | 86 | 7174 | 14.36 | ug/L | # | 89 |
| 33) ethyl tert-butyl ether | 3.085 | 59 | 131748 | 17.11 | ug/L | | 98 |
| 34) ethyl acetate | 3.203 | 45 | 12610 | 18.58 | ug/L | | 95 |
| 35) 2,2-dichloropropane | 3.219 | 77 | 57182 | 15.32 | ug/L | | 98 |
| 36) cis-1,2-dichloroethene | 3.213 | 96 | 46021 | 16.45 | ug/L | | 100 |
| 37) methyl acrylate | 3.240 | 55 | 75994 | 17.96 | ug/L | | 99 |
| 38) propionitrile | 3.235 | 54 | 106941 | 167.13 | ug/L | | 96 |
| 39) tert-butyl formate | 3.422 | 59 | 18686 | 11.13 | ug/L | | 94 |
| 40) bromochloromethane | 3.357 | 128 | 24275 | 17.01 | ug/L | | 95 |
| 41) tetrahydrofuran | 3.363 | 42 | 24775 | 17.28 | ug/L | | 99 |
| 42) chloroform | 3.406 | 83 | 75078 | 16.19 | ug/L | | 98 |
| 44) methacrylonitrile | 3.325 | 67 | 24874 | 18.60 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-30-22\v1x8638\
Data File : 1x200612.d
Acq On : 29 Sep 2022 10:33 pm
Operator : taylors
Sample : cc8636-20/bs
Misc : MS62553,V1X8638,5,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 30 14:33:57 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 45) 1,1,1-trichloroethane | 3.528 | 97 | 72480 | 16.34 | ug/L | | 94 |
| 46) cyclohexane | 3.576 | 84 | 75690 | 18.67 | ug/L | | 92 |
| 47) tert amyl alcohol | 3.715 | 55 | 20166 | 88.42 | ug/L | | 93 |
| 48) 1,1-dichloropropene | 3.619 | 75 | 61069 | 16.76 | ug/L | | 99 |
| 49) isobutyl alcohol | 3.806 | 42 | 9401 | 163.69 | ug/L | | 99 |
| 50) carbon tetrachloride | 3.624 | 117 | 61377 | 15.67 | ug/L | | 98 |
| 51) isopropyl acetate | 3.736 | 87 | 11778 | 18.89 | ug/L | # | 92 |
| 54) iso-octane | 3.806 | 57 | 134128 | 16.20 | ug/L | | 100 |
| 55) epichlorohydrin | 4.718 | 57 | 38257 | 92.19 | ug/L | | 98 |
| 56) n-butyl alcohol | 4.051 | 56 | 133474 | 1002.33 | ug/L | | 98 |
| 57) benzene | 3.747 | 78 | 168219 | 16.80 | ug/L | | 99 |
| 58) tert-amyl methyl ether | 3.806 | 73 | 115211 | 17.44 | ug/L | | 98 |
| 59) heptane | 3.907 | 57 | 28987 | 19.42 | ug/L | | 99 |
| 60) 1,2-dichloroethane | 3.774 | 62 | 62929 | 16.66 | ug/L | | 99 |
| 61) trichloroethene | 4.163 | 130 | 53448 | 17.14 | ug/L | | 96 |
| 62) ethyl acrylate | 4.185 | 55 | 71908 | 17.64 | ug/L | | 99 |
| 63) 2-nitropropane | 4.644 | 41 | 18135 | 18.08 | ug/L | | 96 |
| 64) 2-chloroethyl vinyl ether | 4.676 | 63 | 151006 | 87.06 | ug/L | | 98 |
| 65) methyl methacrylate | 4.345 | 100 | 16077 | 19.81 | ug/L | # | 64 |
| 66) 1,2-dichloropropane | 4.334 | 76 | 17350 | 17.73 | ug/L | | 98 |
| 67) dibromomethane | 4.393 | 93 | 28567 | 16.86 | ug/L | | 94 |
| 68) methylcyclohexane | 4.323 | 83 | 73967 | 17.62 | ug/L | | 97 |
| 69) bromodichloromethane | 4.500 | 83 | 48651 | 16.83 | ug/L | | 99 |
| 70) cis-1,3-dichloropropene | 4.798 | 75 | 57772 | 17.25 | ug/L | | 94 |
| 71) 4-methyl-2-pentanone | 4.889 | 58 | 102216 | 74.53 | ug/L | | 97 |
| 72) 3-methyl-1-butanol | 4.910 | 70 | 42723 | 401.75 | ug/L | | 95 |
| 75) toluene | 5.044 | 92 | 105523 | 17.36 | ug/L | | 99 |
| 76) trans-1,3-dichloropropene | 5.193 | 75 | 53581 | 17.63 | ug/L | | 99 |
| 77) ethyl methacrylate | 5.215 | 69 | 51828 | 16.93 | ug/L | | 97 |
| 78) 1,1,2-trichloroethane | 5.343 | 83 | 33196 | 18.03 | ug/L | | 98 |
| 79) tetrachloroethene | 5.418 | 164 | 43024 | 17.65 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 5.466 | 76 | 61267 | 17.37 | ug/L | | 99 |
| 81) 2-hexanone | 5.487 | 58 | 103369 | 72.27 | ug/L | | 100 |
| 82) butyl acetate | 5.562 | 56 | 35975 | 17.69 | ug/L | | 96 |
| 83) dibromochloromethane | 5.631 | 129 | 42449 | 17.54 | ug/L | | 98 |
| 84) 1,2-dibromoethane | 5.727 | 107 | 45000 | 18.32 | ug/L | | 95 |
| 85) n-butyl ether | 6.149 | 57 | 161418 | 16.39 | ug/L | | 99 |
| 86) chlorobenzene | 6.095 | 112 | 117737 | 17.07 | ug/L | | 99 |
| 87) 1,1,1,2-tetrachloroethane | 6.159 | 131 | 41206 | 17.38 | ug/L | | 98 |
| 88) ethylbenzene | 6.165 | 91 | 194551 | 16.70 | ug/L | | 99 |
| 89) m,p-xylene | 6.266 | 106 | 156423 | 34.12 | ug/L | | 98 |
| 90) o-xylene | 6.570 | 91 | 150321 | 17.26 | ug/L | | 98 |
| 91) styrene | 6.586 | 104 | 126271 | 17.09 | ug/L | | 97 |
| 92) butyl acrylate | 6.506 | 55 | 88015 | 17.63 | ug/L | | 97 |
| 93) n-amyl acetate | 6.688 | 70 | 29975 | 18.04 | ug/L | | 98 |
| 94) bromoform | 6.736 | 173 | 27767 | 17.28 | ug/L | | 97 |
| 95) isopropylbenzene | 6.864 | 105 | 196307 | 17.30 | ug/L | | 100 |
| 96) cis-1,4-dichloro-2-butene | 6.907 | 88 | 7825 | 9.39 | ug/L | | 91 |
| 99) bromobenzene | 7.125 | 156 | 53372 | 17.46 | ug/L | | 98 |
| 100) 1,1,2,2-tetrachloroethane | 7.099 | 83 | 57651 | 19.05 | ug/L | | 97 |
| 101) trans-1,4-dichloro-2-b... | 7.131 | 53 | 10240 | 11.63 | ug/L | | 82 |
| 102) 1,2,3-trichloropropane | 7.152 | 110 | 18163 | 18.18 | ug/L | | 94 |
| 103) n-propylbenzene | 7.189 | 91 | 219243 | 17.35 | ug/L | | 99 |
| 104) 2-chlorotoluene | 7.264 | 126 | 48662 | 17.34 | ug/L | | 92 |
| 105) 4-chlorotoluene | 7.360 | 91 | 126096 | 17.13 | ug/L | | 97 |
| 106) 1,3,5-trimethylbenzene | 7.328 | 105 | 144338 | 17.49 | ug/L | | 98 |
| 107) tert-butylbenzene | 7.568 | 119 | 176664 | 22.01 | ug/L | | 97 |
| 108) 1,2,4-trimethylbenzene | 7.611 | 105 | 143192 | 17.13 | ug/L | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-30-22\v1x8638\
Data File : 1x200612.d
Acq On : 29 Sep 2022 10:33 pm
Operator : taylors
Sample : cc8636-20/bs
Misc : MS62553,V1X8638,5,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 30 14:33:57 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration

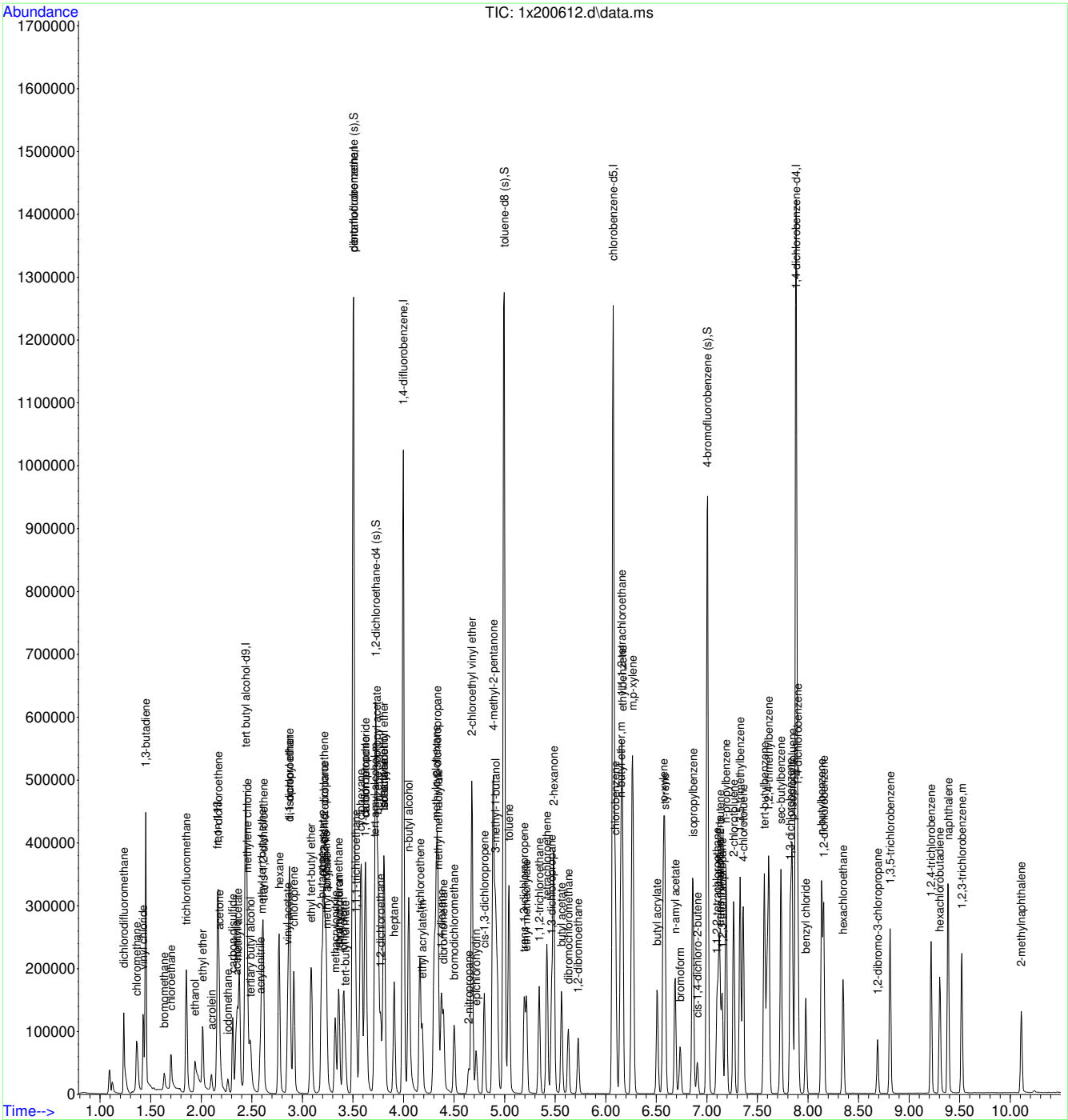
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 109) sec-butylbenzene | 7.734 | 105 | 193546 | 17.53 | ug/L | | 99 |
| 110) 1,3-dichlorobenzene | 7.824 | 146 | 94763 | 17.33 | ug/L | | 98 |
| 111) p-isopropyltoluene | 7.846 | 119 | 164004 | 17.52 | ug/L | | 99 |
| 112) 1,4-dichlorobenzene | 7.899 | 146 | 98301 | 17.44 | ug/L | | 99 |
| 113) 1,2-dichlorobenzene | 8.155 | 146 | 92342 | 18.06 | ug/L | | 99 |
| 114) benzyl chloride | 7.979 | 91 | 72358 | 16.00 | ug/L | | 99 |
| 115) n-butylbenzene | 8.134 | 92 | 71844 | 17.45 | ug/L | | 99 |
| 116) 1,2-dibromo-3-chloropr... | 8.689 | 157 | 16146 | 17.81 | ug/L | | 98 |
| 117) 1,3,5-trichlorobenzene | 8.812 | 180 | 57307 | 17.44 | ug/L | | 100 |
| 118) hexachlorobutadiene | 9.303 | 225 | 21264 | 18.15 | ug/L | | 94 |
| 119) naphthalene | 9.388 | 128 | 196924 | 18.32 | ug/L | | 99 |
| 120) 1,2,4-trichlorobenzene | 9.217 | 180 | 51628 | 18.04 | ug/L | | 98 |
| 121) 1,2,3-trichlorobenzene | 9.522 | 180 | 49078 | 17.60 | ug/L | | 97 |
| 122) hexachloroethane | 8.347 | 201 | 17001 | 14.83 | ug/L | # | 77 |
| 123) 2-methylnaphthalene | 10.109 | 142 | 50441 | 9.60 | ug/L | | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-30-22\v1x8638\
Data File : 1x200612.d
Acq On : 29 Sep 2022 10:33 pm
Operator : taylors
Sample : cc8636-20/bs
Misc : MS62553,V1X8638,5,,,,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 30 14:33:57 2022
Quant Method : C:\MSDCHEM\1\METHODS\M1X8636.M
Quant Title : Method 8260C/D, Rxi-624 (60m x 0.25mm x 1.4um)
QLast Update : Thu Sep 29 10:06:17 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/01/22 19:36

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218781.D
Acq On : 31 Jul 2022 5:23 pm
Operator : PrashanS
Sample : IC9511-0.2
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 14:38:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:30:00 2022
QLast Update : Mon Aug 01 14:31:10 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 413095 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 704907 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 942450 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 907713 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 489845 | 50.00 | ug/L | | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 703959 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 327890 | 48.92 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.84% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 439924 | 50.13 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.26% | | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1101058 | 49.31 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.62% | | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 451758 | 50.21 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.42% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 13) trichlorofluoromethane | 5.79 | 101 | 1886 | 0.18 | ug/L | | 75 |
| 20) iodomethane | 6.84 | 142 | 2080 | 0.21 | ug/L | | 73 |
| 24) methyl tert butyl ether | 7.67 | 73 | 3921 | 0.22 | ug/L | | 75 |
| 26) hexane | 8.05 | 57 | 2404 | 0.24 | ug/L | | 94 |
| 27) di-isopropyl ether | 8.25 | 45 | 5687 | 0.23 | ug/L | | 96 |
| 28) ethyl tert-butyl ether | 8.72 | 59 | 4939 | 0.22 | ug/L | | 92 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 2481 | 0.22 | ug/L | | 73 |
| 31) chloroprene | 8.36 | 53 | 2287 | 0.21 | ug/L | | 86 |
| 35) 2,2-dichloropropane | 9.00 | 77 | 2031 | 0.23 | ug/L | | 92 |
| 36) cis-1,2-dichloroethene | 8.98 | 96 | 1141 | 0.18 | ug/L | # | 68 |
| 41) tert-butyl formate | 9.39 | 59 | 1059 | 0.17 | ug/L | | 85 |
| 45) 1,1,1-trichloroethane | 9.61 | 97 | 2008 | 0.20 | ug/L | # | 71 |
| 46) cyclohexane | 9.73 | 84 | 1608 | 0.18 | ug/L | # | 43 |
| 47) 1,1-dichloropropene | 9.79 | 75 | 1870 | 0.23 | ug/L | # | 78 |
| 49) carbon tetrachloride | 9.81 | 117 | 1890 | 0.20 | ug/L | # | 65 |
| 52) 2,2,4-trimethylpentane | 10.11 | 57 | 5838 | 0.23 | ug/L | | 94 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 4313 | 0.23 | ug/L | | 97 |
| 55) benzene | 10.02 | 78 | 4522 | 0.21 | ug/L | | 88 |
| 56) heptane | 10.28 | 57 | 970 | 0.18 | ug/L | # | 73 |
| 59) trichloroethene | 10.75 | 95 | 1268 | 0.20 | ug/L | # | 65 |
| 65) methylcyclohexane | 11.04 | 83 | 2227 | 0.22 | ug/L | # | 72 |
| 66) dibromomethane | 11.15 | 93 | 977 | 0.24 | ug/L | | 94 |
| 67) bromodichloromethane | 11.30 | 83 | 1917 | 0.22 | ug/L | | 89 |
| 69) cis-1,3-dichloropropene | 11.76 | 75 | 1843 | 0.18 | ug/L | | 93 |
| 70) 4-methyl-2-pentanone | 11.87 | 58 | 2482 | 0.79 | ug/L | | 98 |
| 74) toluene | 12.14 | 92 | 3058 | 0.22 | ug/L | # | 79 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 1875 | 0.19 | ug/L | # | 80 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 944 | 0.19 | ug/L | | 91 |
| 79) tetrachloroethene | 12.69 | 166 | 1390 | 0.20 | ug/L | | 84 |
| 80) 1,3-dichloropropane | 12.73 | 76 | 2250 | 0.25 | ug/L | | 76 |
| 82) dibromochloromethane | 12.97 | 129 | 1460 | 0.20 | ug/L | | 91 |
| 83) 1,2-dibromoethane | 13.12 | 107 | 1196 | 0.19 | ug/L | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218781.D
Acq On : 31 Jul 2022 5:23 pm
Operator : PrashanS
Sample : IC9511-0.2
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 14:38:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:30:00 2022
QLast Update : Mon Aug 01 14:31:10 2022
Response via : Initial Calibration

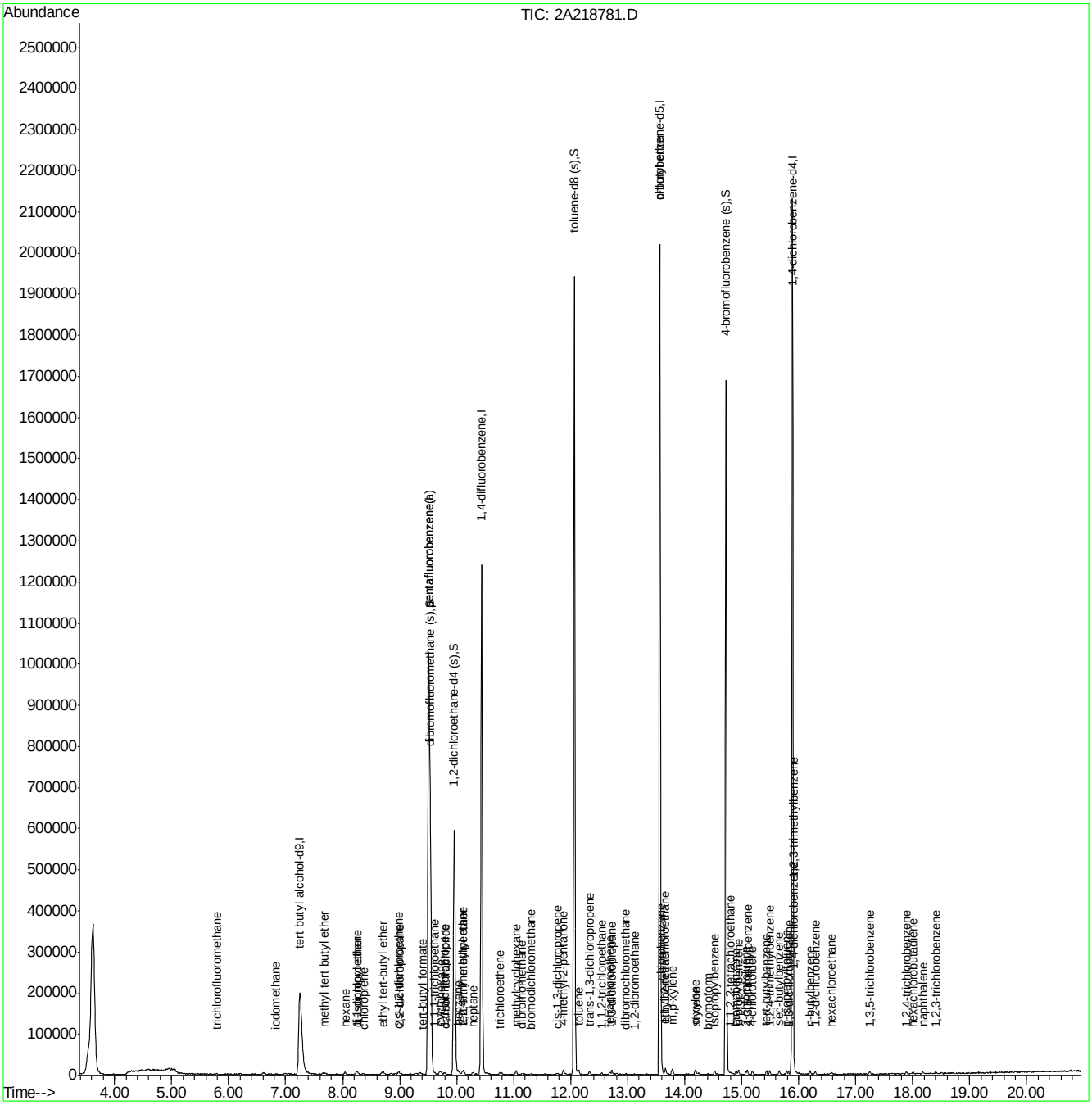
| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 84) n-butyl ether | 13.57 | 57 | 6000m | 0.21 | ug/L | | |
| 85) chlorobenzene | 13.59 | 112 | 2945 | 0.19 | ug/L | | 90 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 1165 | 0.19 | ug/L | # | 78 |
| 87) ethylbenzene | 13.66 | 91 | 5830 | 0.22 | ug/L | | 96 |
| 88) m,p-xylene | 13.78 | 106 | 4185 | 0.40 | ug/L | | 93 |
| 89) o-xylene | 14.19 | 91 | 4811 | 0.22 | ug/L | | 66 |
| 90) styrene | 14.20 | 104 | 3356 | 0.19 | ug/L | | 88 |
| 92) bromoform | 14.41 | 173 | 954 | 0.17 | ug/L | | 84 |
| 94) isopropylbenzene | 14.53 | 105 | 5340 | 0.20 | ug/L | | 91 |
| 98) bromobenzene | 14.90 | 156 | 1847 | 0.25 | ug/L | # | 61 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 1678 | 0.20 | ug/L | | 80 |
| 102) n-propylbenzene | 14.94 | 91 | 6409 | 0.21 | ug/L | | 82 |
| 103) 2-chlorotoluene | 15.07 | 126 | 1582 | 0.24 | ug/L | # | 80 |
| 104) 4-chlorotoluene | 15.18 | 91 | 4087 | 0.21 | ug/L | | 96 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 4373 | 0.20 | ug/L | | 96 |
| 106) tert-butylbenzene | 15.44 | 119 | 3960 | 0.21 | ug/L | | 86 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 4650 | 0.21 | ug/L | | 83 |
| 108) sec-butylbenzene | 15.66 | 105 | 5792 | 0.21 | ug/L | | 94 |
| 109) 1,3-dichlorobenzene | 15.83 | 146 | 2758 | 0.20 | ug/L | | 82 |
| 110) p-isopropyltoluene | 15.79 | 119 | 5326 | 0.22 | ug/L | | 89 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 4974 | 0.22 | ug/L | | 86 |
| 113) 1,4-dichlorobenzene | 15.92 | 146 | 3452 | 0.25 | ug/L | | 96 |
| 114) 1,2-dichlorobenzene | 16.29 | 146 | 2734 | 0.20 | ug/L | | 69 |
| 115) n-butylbenzene | 16.20 | 92 | 2460 | 0.19 | ug/L | # | 71 |
| 117) 1,3,5-trichlorobenzene | 17.25 | 180 | 2195 | 0.20 | ug/L | | 78 |
| 118) 1,2,4-trichlorobenzene | 17.89 | 180 | 1689 | 0.18 | ug/L | | 80 |
| 119) hexachlorobutadiene | 18.00 | 225 | 810 | 0.17 | ug/L | | 77 |
| 120) naphthalene | 18.18 | 128 | 4329 | 0.19 | ug/L | | 94 |
| 121) 1,2,3-trichlorobenzene | 18.41 | 180 | 1498 | 0.17 | ug/L | | 96 |
| 122) hexachloroethane | 16.58 | 201 | 661 | 0.15 | ug/L | | 93 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218781.D
Acq On : 31 Jul 2022 5:23 pm
Operator : PrashanS
Sample : IC9511-0.2
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 01 14:38:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:30:00 2022
QLast Update : Mon Aug 01 14:31:10 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | V2A9511-IC9511 | **Method:** | SW846 8260D |
| **Lab FileID:** | 2A218781.D | **Analyst approved:** | 08/01/22 15:32 MoHui Huang |
| **Injection Time:** | 07/31/22 17:23 | **Supervisor approved:** | 08/01/22 19:36 Kanya Veerawat |

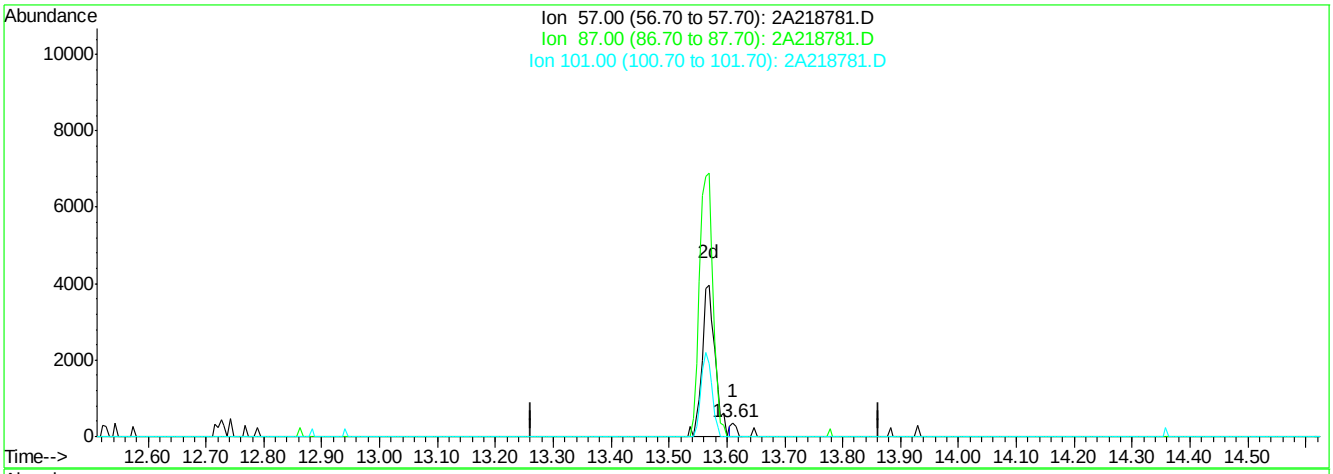
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| n-Butyl Ether | 142-96-1 | | 13.57 | Missed peak |

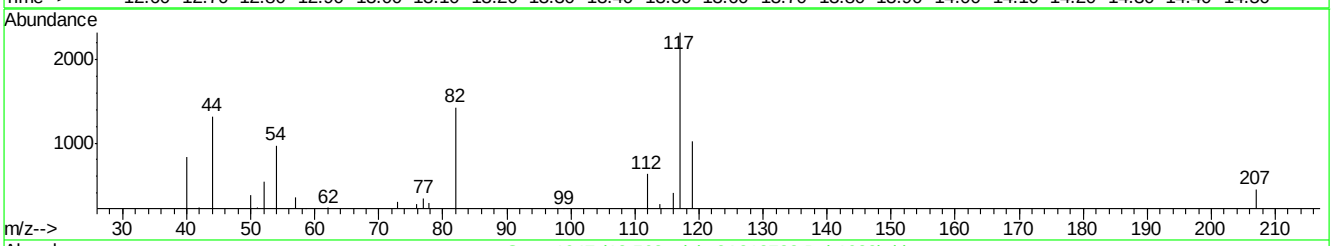
Quantitation Report (Qedit)

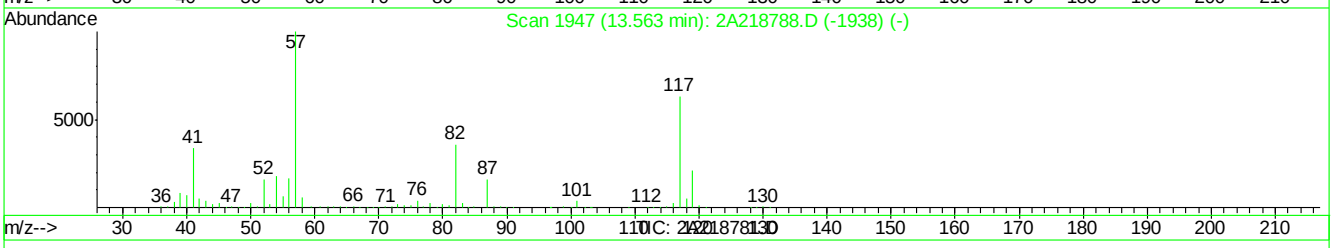
Data File : C:\MSDChem\1\DATA\V2A9511\2A218781.D Vial: 2
Acq On : 31 Jul 2022 5:23 pm Operator: PrashanS
Sample : IC9511-0.2 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:31:19 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:31:10 2022
Last Update : Mon Aug 01 14:31:10 2022
Response via : Multiple Level Calibration




(84) n-butyl ether

13.61min 0.01ug/L

response 190

| Ion | Exp% | Act% |
|---|---|---|
| 57.00 | 100 | 100 |
| 87.00 | 16.10 | 0.00 |
| 101.00 | 3.80 | 0.00 |
| 0.00 | 0.00 | 0.00 |

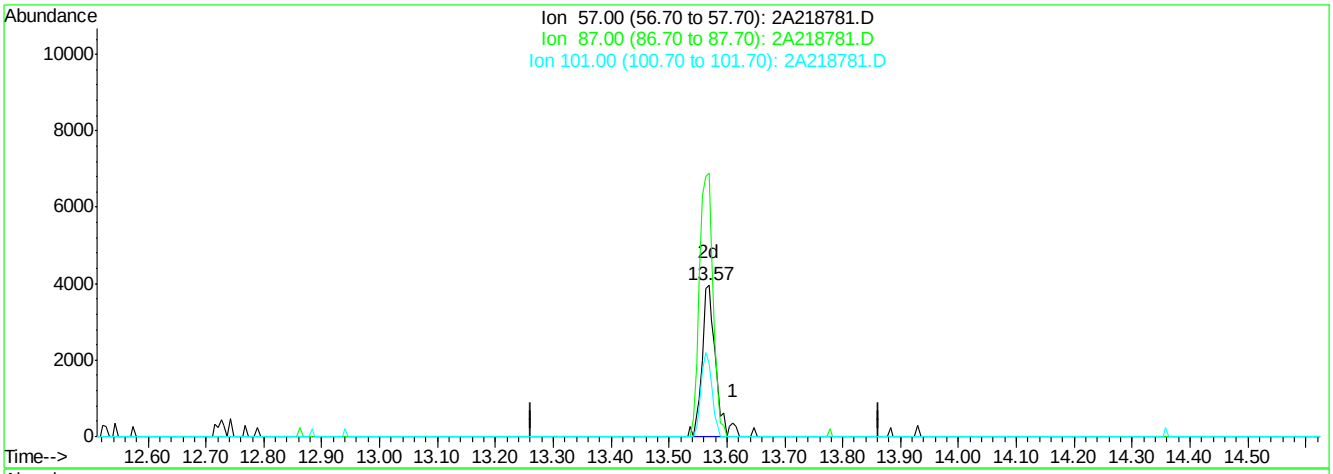
2A218781.D M2A9511.M Mon Aug 01 14:36:32 2022 MS2A

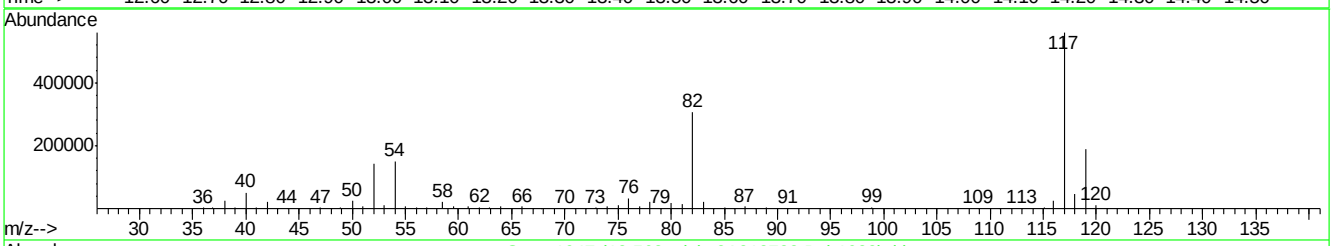
Quantitation Report (Qedit)

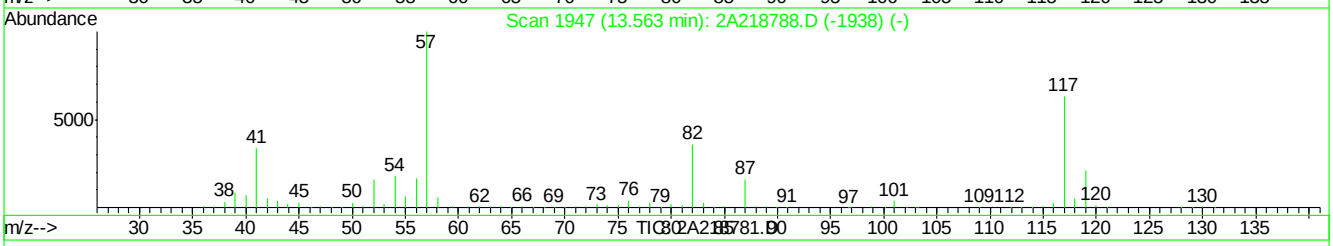
Data File : C:\MSDChem\1\DATA\V2A9511\2A218781.D Vial: 2
Acq On : 31 Jul 2022 5:23 pm Operator: PrashanS
Sample : IC9511-0.2 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:31:19 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:31:10 2022
Last Update : Mon Aug 01 14:31:10 2022
Response via : Multiple Level Calibration




(84) n-butyl ether

13.57min 0.21ug/L m

response 6000

| Ion | Exp% | Act% |
|---|---|---|
| 57.00 | 100 | 100 |
| 87.00 | 16.10 | 173.40# |
| 101.00 | 3.80 | 48.35# |
| 0.00 | 0.00 | 0.00 |

2A218781.D M2A9511.M Mon Aug 01 14:36:53 2022 MS2A



2A218781.D edits: n-butyl ether

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/01/22 19:36

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218782.D
Acq On : 31 Jul 2022 5:51 pm
Operator : PrashanS
Sample : IC9511-0.5
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 15:19:21 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:31:10 2022
QLast Update : Mon Aug 01 14:38:54 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 427684 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 709874 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 963510 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 913372 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 497142 | 50.00 | ug/L | | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 709874 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 332645 | 49.82 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.64% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 447181 | 49.78 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.56% | | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1118880 | 50.14 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.28% | | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 464024 | 50.71 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.42% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 6) chlorodifluoromethane | 4.00 | 51 | 4561 | 0.48 | ug/L | | 76 |
| 7) dichlorodifluoromethane | 3.98 | 85 | 4014 | 0.42 | ug/L | # | 49 |
| 8) chloromethane | 4.33 | 50 | 6827m | 0.59 | ug/L | | |
| 9) vinyl chloride | 4.58 | 62 | 4303 | 0.46 | ug/L | | 87 |
| 10) 1,3-butadiene | 4.60 | 54 | 4893 | 0.63 | ug/L | | 97 |
| 11) bromomethane | 5.17 | 94 | 3097 | 0.58 | ug/L | | 71 |
| 12) chloroethane | 5.37 | 64 | 2045 | 0.46 | ug/L | # | 39 |
| 13) trichlorofluoromethane | 5.79 | 101 | 4666 | 0.46 | ug/L | | 88 |
| 14) ethyl ether | 6.18 | 74 | 1674m | 0.51 | ug/L | | |
| 16) freon 113 | 6.62 | 151 | 2906 | 0.60 | ug/L | | 93 |
| 17) 1,1-dichloroethene | 6.61 | 96 | 2861m | 0.56 | ug/L | | |
| 18) acetone | 6.61 | 43 | 6054 | 2.36 | ug/L | | 51 |
| 19) acetonitrile | 7.03 | 41 | 5486 | 5.02 | ug/L | | 77 |
| 20) iodomethane | 6.85 | 142 | 5604 | 0.55 | ug/L | | 89 |
| 21) carbon disulfide | 6.99 | 76 | 9356 | 0.55 | ug/L | | 94 |
| 22) methylene chloride | 7.31 | 84 | 3853 | 0.66 | ug/L | # | 56 |
| 23) methyl acetate | 7.06 | 43 | 3336 | 0.49 | ug/L | | 76 |
| 24) methyl tert butyl ether | 7.66 | 73 | 10380 | 0.55 | ug/L | | 91 |
| 25) trans-1,2-dichloroethene | 7.69 | 96 | 3344 | 0.59 | ug/L | | 90 |
| 26) hexane | 8.04 | 57 | 5690 | 0.51 | ug/L | | 87 |
| 27) di-isopropyl ether | 8.25 | 45 | 13089 | 0.48 | ug/L | | 97 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 11341 | 0.48 | ug/L | | 93 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 6281 | 0.53 | ug/L | | 92 |
| 31) chloroprene | 8.36 | 53 | 5235 | 0.46 | ug/L | | 95 |
| 35) 2,2-dichloropropane | 9.00 | 77 | 5384 | 0.56 | ug/L | | 89 |
| 36) cis-1,2-dichloroethene | 8.98 | 96 | 4024 | 0.67 | ug/L | # | 78 |
| 37) propionitrile | 8.99 | 54 | 5369 | 4.80 | ug/L | | 69 |
| 38) bromochloromethane | 9.26 | 130 | 2135 | 0.49 | ug/L | | 89 |
| 40) chloroform | 9.35 | 83 | 7919 | 0.71 | ug/L | | 92 |
| 41) tert-butyl formate | 9.39 | 59 | 2820 | 0.49 | ug/L | | 85 |
| 45) 1,1,1-trichloroethane | 9.61 | 97 | 5624 | 0.55 | ug/L | | 83 |
| 46) cyclohexane | 9.71 | 84 | 4015 | 0.48 | ug/L | | 87 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218782.D
Acq On : 31 Jul 2022 5:51 pm
Operator : PrashanS
Sample : IC9511-0.5
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 15:19:21 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:31:10 2022
QLast Update : Mon Aug 01 14:38:54 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 47) 1,1-dichloropropene | 9.77 | 75 | 4608 | 0.53 | ug/L | | 86 |
| 49) carbon tetrachloride | 9.80 | 117 | 5118 | 0.54 | ug/L | # | 80 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 13366 | 0.48 | ug/L | | 94 |
| 53) tert-amyl methyl ether | 10.12 | 73 | 10504 | 0.51 | ug/L | | 92 |
| 54) n-butyl alcohol | 10.51 | 56 | 6004 | 23.25 | ug/L | | 85 |
| 55) benzene | 10.02 | 78 | 11784 | 0.52 | ug/L | | 90 |
| 56) heptane | 10.28 | 57 | 2760 | 0.53 | ug/L | | 89 |
| 58) 1,2-dichloroethane | 10.05 | 62 | 6275 | 0.62 | ug/L | | 94 |
| 59) trichloroethene | 10.75 | 95 | 3600 | 0.56 | ug/L | | 86 |
| 60) ethyl acrylate | 10.75 | 55 | 5180 | 0.48 | ug/L | | 89 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 3346 | 0.50 | ug/L | | 95 |
| 65) methylcyclohexane | 11.04 | 83 | 5016 | 0.46 | ug/L | | 82 |
| 66) dibromomethane | 11.15 | 93 | 2581 | 0.56 | ug/L | | 80 |
| 67) bromodichloromethane | 11.29 | 83 | 4934 | 0.52 | ug/L | | 93 |
| 69) cis-1,3-dichloropropene | 11.76 | 75 | 5118 | 0.52 | ug/L | | 86 |
| 70) 4-methyl-2-pentanone | 11.87 | 58 | 6434 | 2.02 | ug/L | | 90 |
| 71) 3-methyl-1-butanol | 11.88 | 70 | 1593 | 7.64 | ug/L | # | 52 |
| 74) toluene | 12.14 | 92 | 7736 | 0.52 | ug/L | | 92 |
| 75) trans-1,3-dichloropropene | 12.33 | 75 | 4616 | 0.48 | ug/L | | 96 |
| 76) ethyl methacrylate | 12.32 | 69 | 3621 | 0.42 | ug/L | | 95 |
| 77) 1,1,2-trichloroethane | 12.55 | 83 | 2607 | 0.54 | ug/L | # | 83 |
| 78) 2-hexanone | 12.72 | 58 | 5965 | 1.94 | ug/L | | 98 |
| 79) tetrachloroethene | 12.68 | 166 | 4213 | 0.61 | ug/L | | 82 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 4907 | 0.48 | ug/L | | 93 |
| 81) butyl acetate | 12.79 | 56 | 2426 | 0.46 | ug/L | # | 47 |
| 82) dibromochloromethane | 12.97 | 129 | 3607 | 0.49 | ug/L | | 79 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 2987 | 0.49 | ug/L | | 98 |
| 84) n-butyl ether | 13.56 | 57 | 15283 | 0.52 | ug/L | # | 1 |
| 85) chlorobenzene | 13.59 | 112 | 8496 | 0.56 | ug/L | | 86 |
| 86) 1,1,1,2-tetrachloroethane | 13.65 | 131 | 3475 | 0.57 | ug/L | | 75 |
| 87) ethylbenzene | 13.66 | 91 | 14752 | 0.53 | ug/L | | 88 |
| 88) m,p-xylene | 13.78 | 106 | 11124 | 1.06 | ug/L | # | 82 |
| 89) o-xylene | 14.18 | 91 | 11555 | 0.50 | ug/L | | 93 |
| 90) styrene | 14.19 | 104 | 8385 | 0.49 | ug/L | | 95 |
| 91) n-amyl acetate | 14.22 | 70 | 1923 | 0.41 | ug/L | # | 71 |
| 92) bromoform | 14.42 | 173 | 2587 | 0.50 | ug/L | | 91 |
| 93) butyl acrylate | 14.02 | 55 | 6618 | 0.40 | ug/L | | 90 |
| 94) isopropylbenzene | 14.53 | 105 | 14109 | 0.53 | ug/L | | 96 |
| 95) cis-1,4-dichloro-2-butene | 14.57 | 88 | 1317 | 0.41 | ug/L | # | 81 |
| 98) bromobenzene | 14.91 | 156 | 4394 | 0.52 | ug/L | # | 67 |
| 99) 1,1,2,2-tetrachloroethane | 14.81 | 83 | 4398 | 0.52 | ug/L | | 90 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 1087 | 0.51 | ug/L | | 87 |
| 102) n-propylbenzene | 14.94 | 91 | 17284 | 0.54 | ug/L | | 90 |
| 103) 2-chlorotoluene | 15.07 | 126 | 3325 | 0.45 | ug/L | | 92 |
| 104) 4-chlorotoluene | 15.18 | 91 | 10857 | 0.54 | ug/L | | 93 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 12031 | 0.54 | ug/L | | 91 |
| 106) tert-butylbenzene | 15.44 | 119 | 10266 | 0.53 | ug/L | | 84 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 11941 | 0.52 | ug/L | | 91 |
| 108) sec-butylbenzene | 15.65 | 105 | 15065 | 0.52 | ug/L | | 98 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 7672 | 0.55 | ug/L | | 89 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218782.D
Acq On : 31 Jul 2022 5:51 pm
Operator : PrashanS
Sample : IC9511-0.5
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 15:19:21 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:31:10 2022
QLast Update : Mon Aug 01 14:38:54 2022
Response via : Initial Calibration

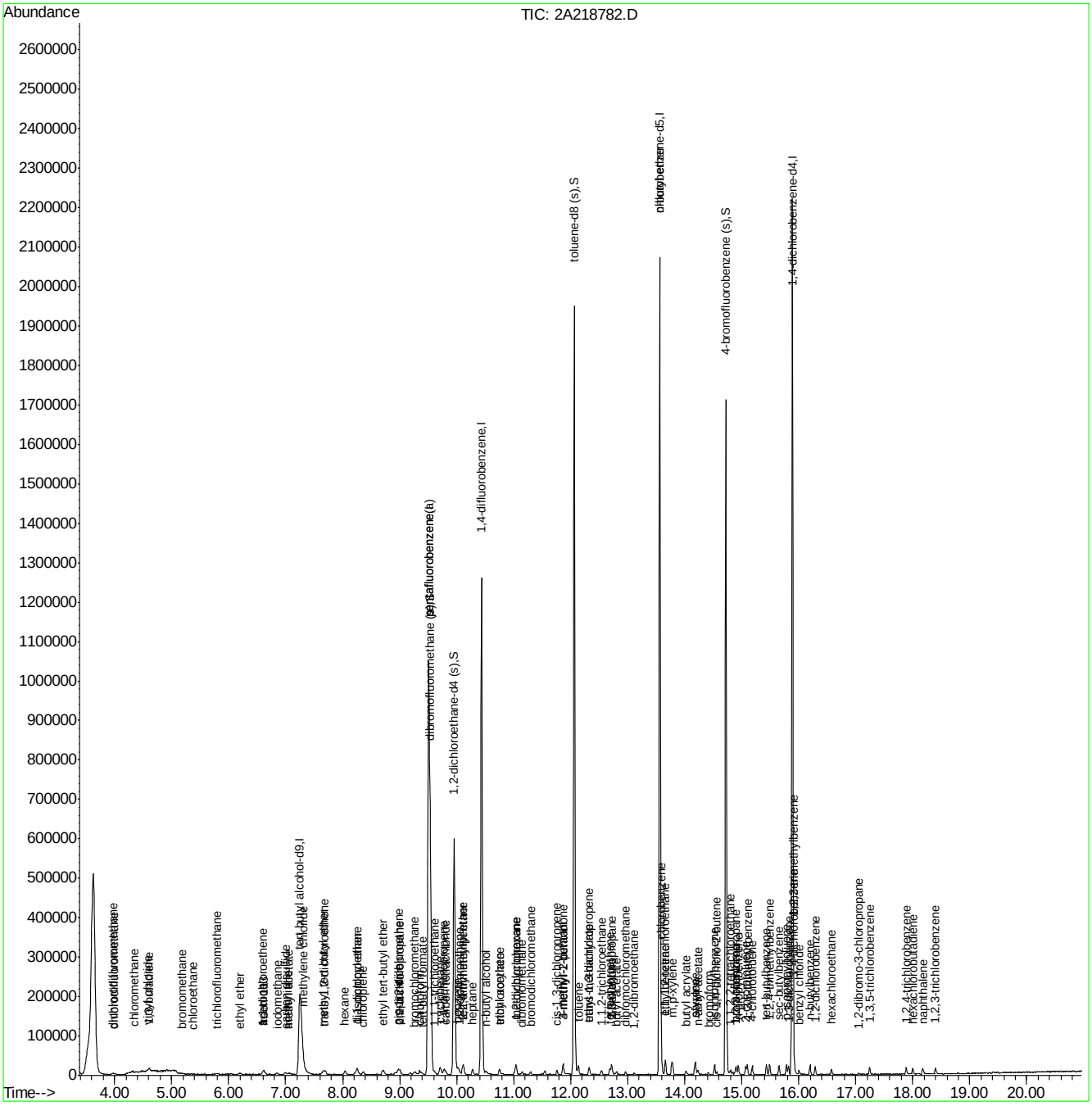
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 110) p-isopropyltoluene | 15.78 | 119 | 12719 | 0.50 | ug/L | 92 |
| 111) benzyl chloride | 16.01 | 91 | 6683 | 0.45 | ug/L | 94 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 13172 | 0.55 | ug/L | 92 |
| 113) 1,4-dichlorobenzene | 15.92 | 146 | 7227 | 0.46 | ug/L | 98 |
| 114) 1,2-dichlorobenzene | 16.29 | 146 | 7104 | 0.51 | ug/L | 98 |
| 115) n-butylbenzene | 16.20 | 92 | 6437 | 0.50 | ug/L | 93 |
| 116) 1,2-dibromo-3-chloropropan | 17.06 | 157 | 779 | 0.40 | ug/L | 72 |
| 117) 1,3,5-trichlorobenzene | 17.25 | 180 | 5546 | 0.50 | ug/L | 89 |
| 118) 1,2,4-trichlorobenzene | 17.89 | 180 | 4459 | 0.49 | ug/L | 93 |
| 119) hexachlorobutadiene | 18.00 | 225 | 2240 | 0.50 | ug/L | 91 |
| 120) naphthalene | 18.18 | 128 | 9742 | 0.43 | ug/L | 93 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 4270 | 0.51 | ug/L | 84 |
| 122) hexachloroethane | 16.58 | 201 | 1757 | 0.45 | ug/L | 87 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218782.D
Acq On : 31 Jul 2022 5:51 pm
Operator : PrashanS
Sample : IC9511-0.5
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 15:19:21 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:31:10 2022
QLast Update : Mon Aug 01 14:38:54 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V2A9511-IC9511
**Lab FileID:** 2A218782.D
**Injection Time:** 07/31/22 17:51
**Method:** SW846 8260D
**Analyst approved:** 08/01/22 15:32 MoHui Huang
**Supervisor approved:** 08/01/22 19:36 Kanya Veerawat

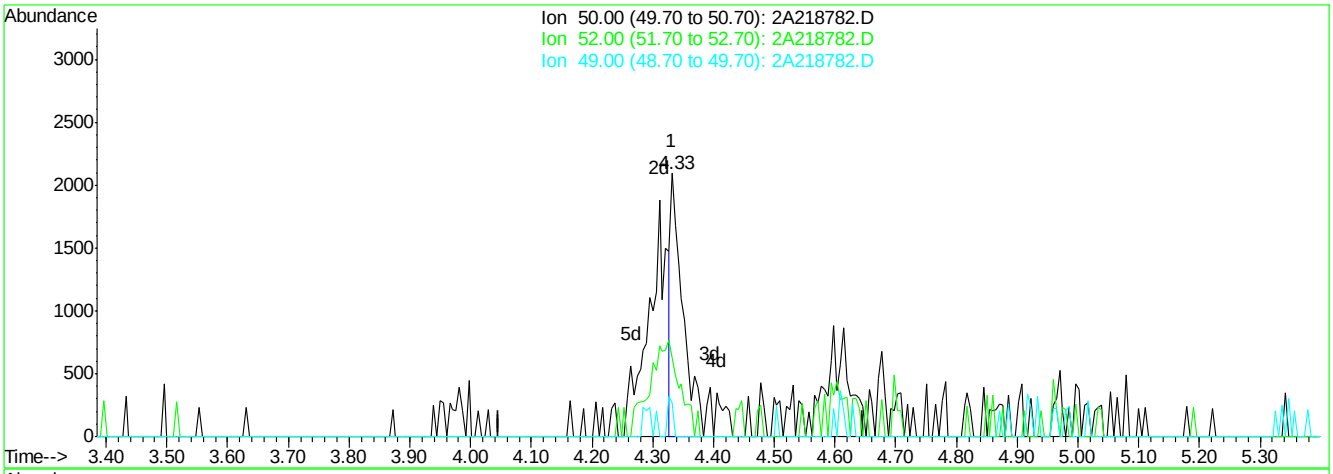
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Chloromethane | 74-87-3 | | 4.33 | Split peak |
| Ethyl Ether | 60-29-7 | | 6.18 | Split peak |
| 1,1-Dichloroethene | 75-35-4 | | 6.61 | Split peak |

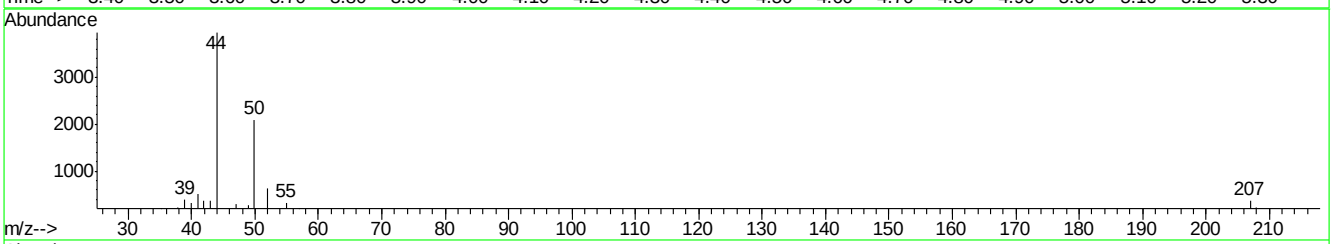
Quantitation Report (Qedit)

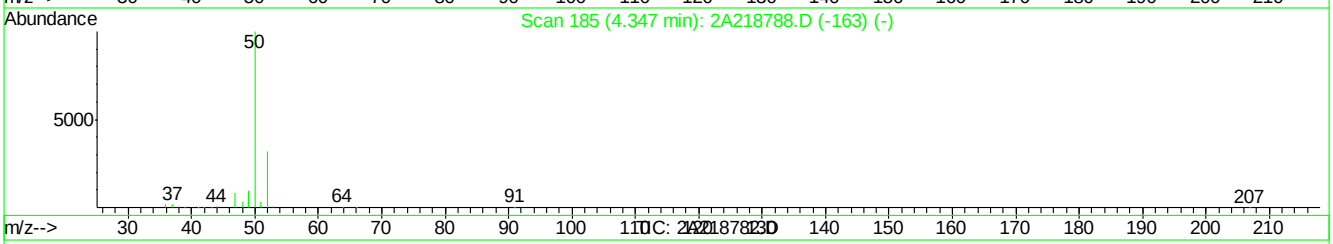
Data File : C:\MSDChem\1\DATA\V2A9511\2A218782.D Vial: 3
Acq On : 31 Jul 2022 5:51 pm Operator: PrashanS
Sample : IC9511-0.5 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:39:00 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
Last Update : Mon Aug 01 14:38:54 2022
Response via : Multiple Level Calibration




(8) chloromethane

4.33min 0.25ug/L

response 2886

| Ion | Exp% | Act% |
|---|---|---|
| 50.00 | 100 | 100 |
| 52.00 | 31.70 | 29.94 |
| 49.00 | 9.80 | 12.99 |
| 0.00 | 0.00 | 0.00 |

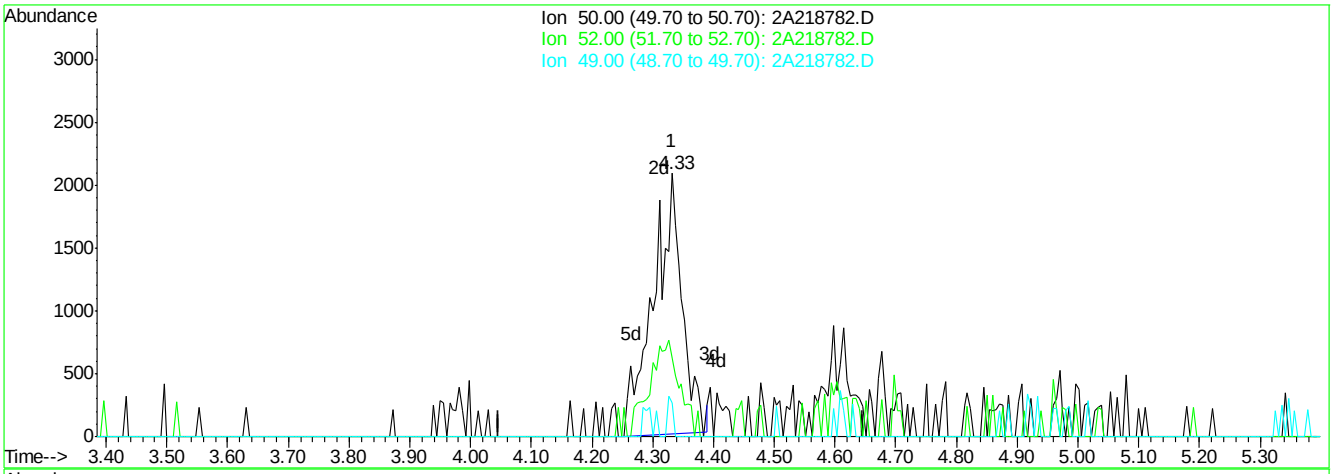
2A218782.D M2A9511.M Mon Aug 01 14:39:29 2022 MS2A

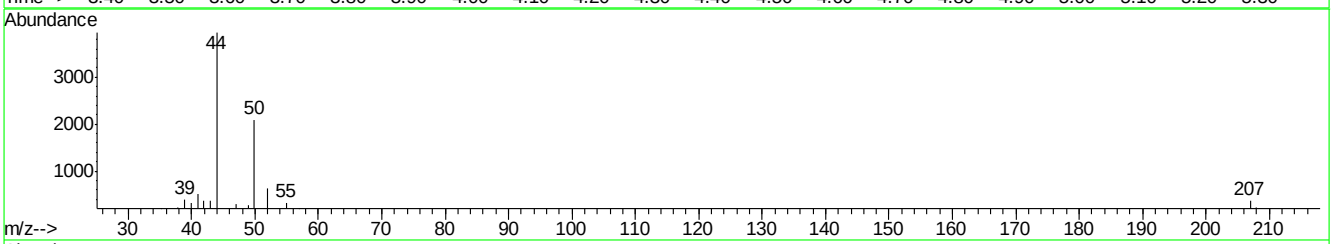
Quantitation Report (Qedit)

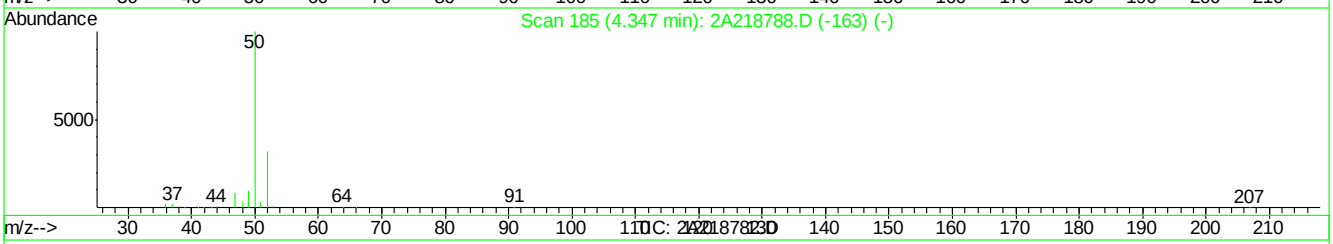
Data File : C:\MSDChem\1\DATA\V2A9511\2A218782.D Vial: 3
Acq On : 31 Jul 2022 5:51 pm Operator: PrashanS
Sample : IC9511-0.5 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:39:00 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
Last Update : Mon Aug 01 14:38:54 2022
Response via : Multiple Level Calibration




(8) chloromethane

4.33min 0.59ug/L m

response 6827

| Ion | Exp% | Act% |
|---|---|---|
| 50.00 | 100 | 100 |
| 52.00 | 31.70 | 29.94 |
| 49.00 | 9.80 | 12.99 |
| 0.00 | 0.00 | 0.00 |

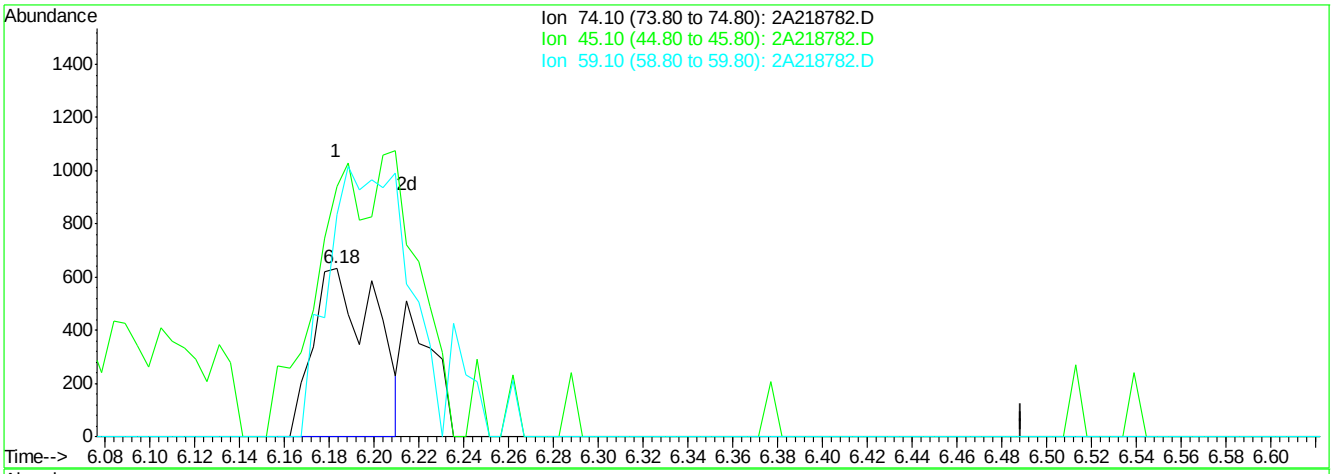
2A218782.D M2A9511.M Mon Aug 01 14:39:46 2022 MS2A

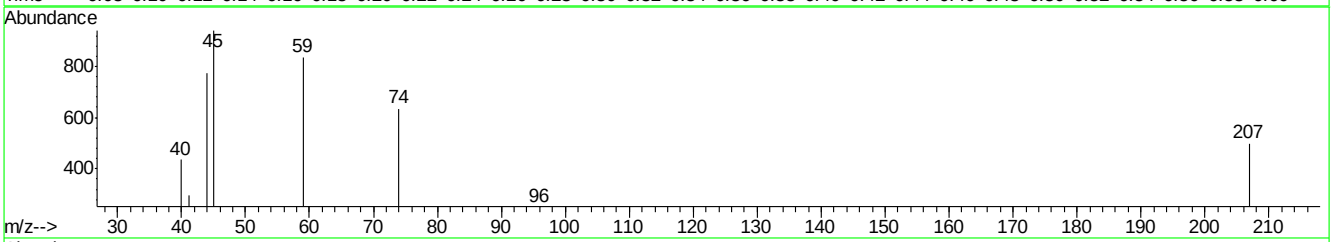
Quantitation Report (Qedit)

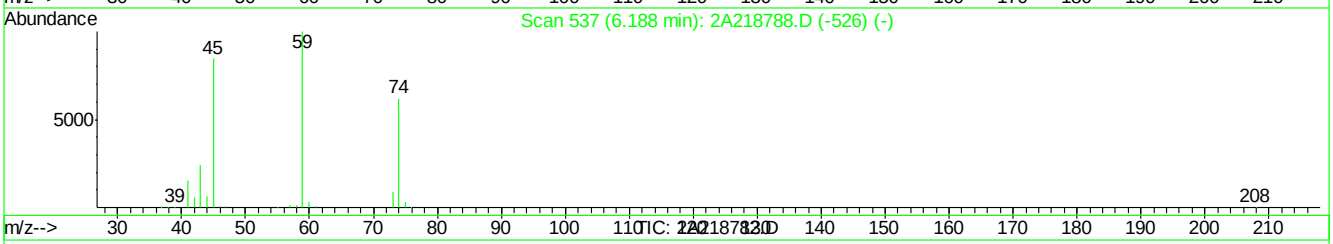
Data File : C:\MSDChem\1\DATA\V2A9511\2A218782.D Vial: 3
Acq On : 31 Jul 2022 5:51 pm Operator: PrashanS
Sample : IC9511-0.5 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:39:00 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
Last Update : Mon Aug 01 14:38:54 2022
Response via : Multiple Level Calibration




(14) ethyl ether

6.18min 0.37ug/L

response 1209

| Ion | Exp% | Act% |
|---|---|---|
| 74.10 | 100 | 100 |
| 45.10 | 150.10 | 106.15# |
| 59.10 | 161.60 | 131.70 |
| 0.00 | 0.00 | 0.00 |

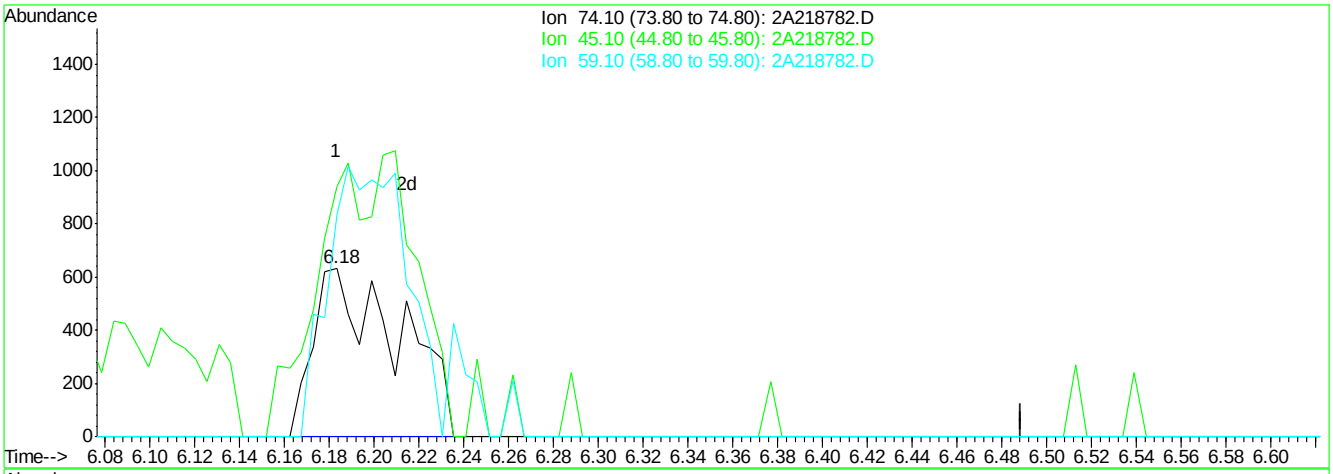
2A218782.D M2A9511.M Mon Aug 01 14:40:09 2022 MS2A

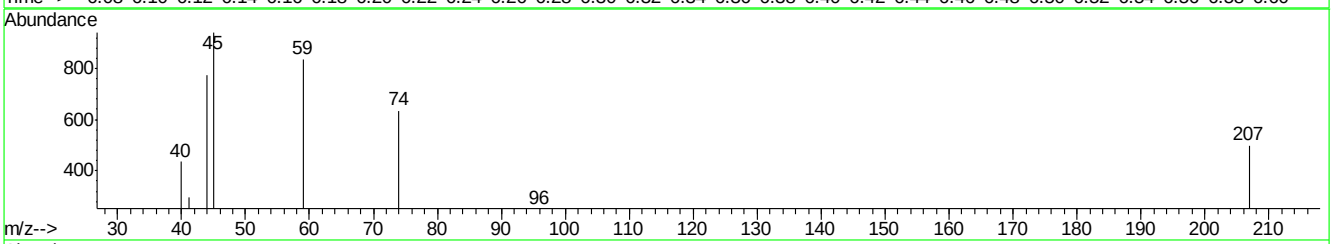
Quantitation Report (Qedit)

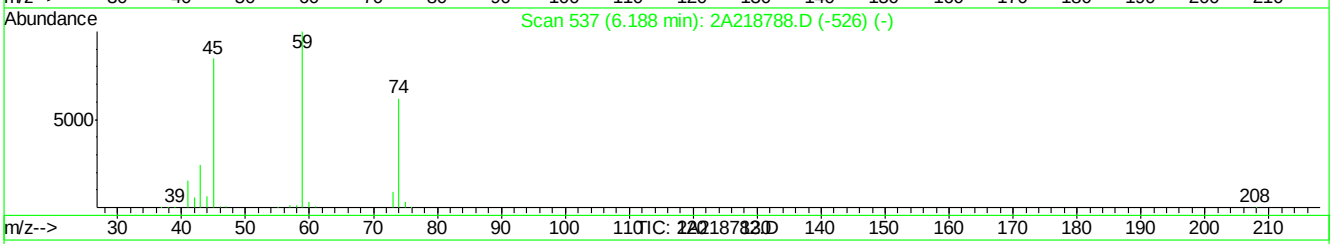
Data File : C:\MSDChem\1\DATA\V2A9511\2A218782.D Vial: 3
Acq On : 31 Jul 2022 5:51 pm Operator: PrashanS
Sample : IC9511-0.5 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:39:00 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
Last Update : Mon Aug 01 14:38:54 2022
Response via : Multiple Level Calibration




(14) ethyl ether

6.18min 0.51ug/L m

response 1674

| Ion | Exp% | Act% |
|---|---|---|
| 74.10 | 100 | 100 |
| 45.10 | 150.10 | 148.26 |
| 59.10 | 161.60 | 131.70 |
| 0.00 | 0.00 | 0.00 |

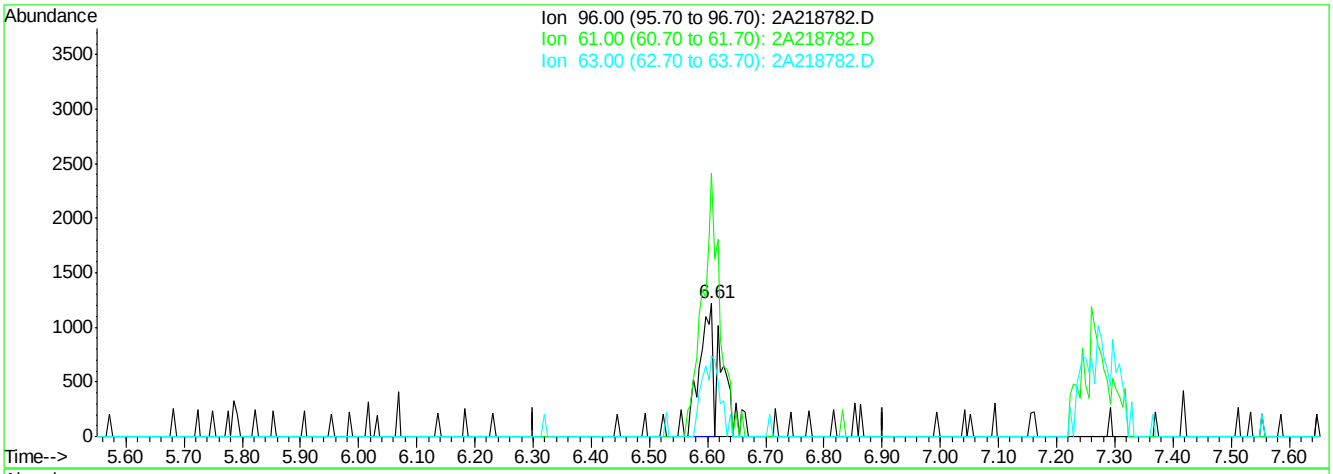
2A218782.D M2A9511.M Mon Aug 01 14:40:24 2022 MS2A

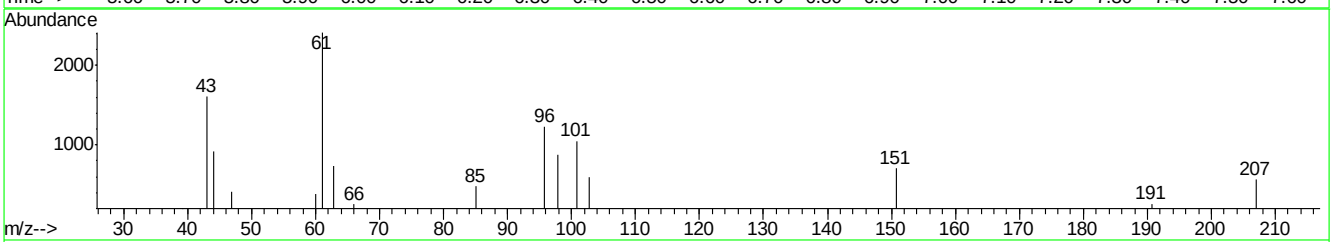
Quantitation Report (Qedit)

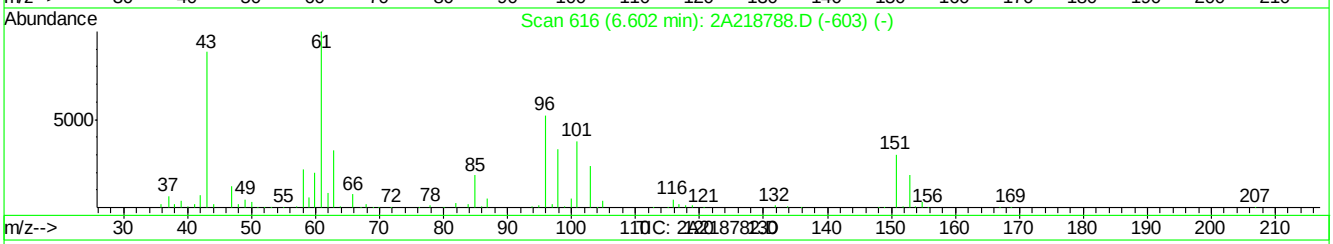
Data File : C:\MSDChem\1\DATA\V2A9511\2A218782.D Vial: 3
Acq On : 31 Jul 2022 5:51 pm Operator: PrashanS
Sample : IC9511-0.5 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:39:00 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
Last Update : Mon Aug 01 14:38:54 2022
Response via : Multiple Level Calibration




(17) 1,1-dichloroethene

6.61min 0.37ug/L

response 1851

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 191.10 | 176.35 |
| 63.00 | 62.60 | 60.11 |
| 0.00 | 0.00 | 0.00 |

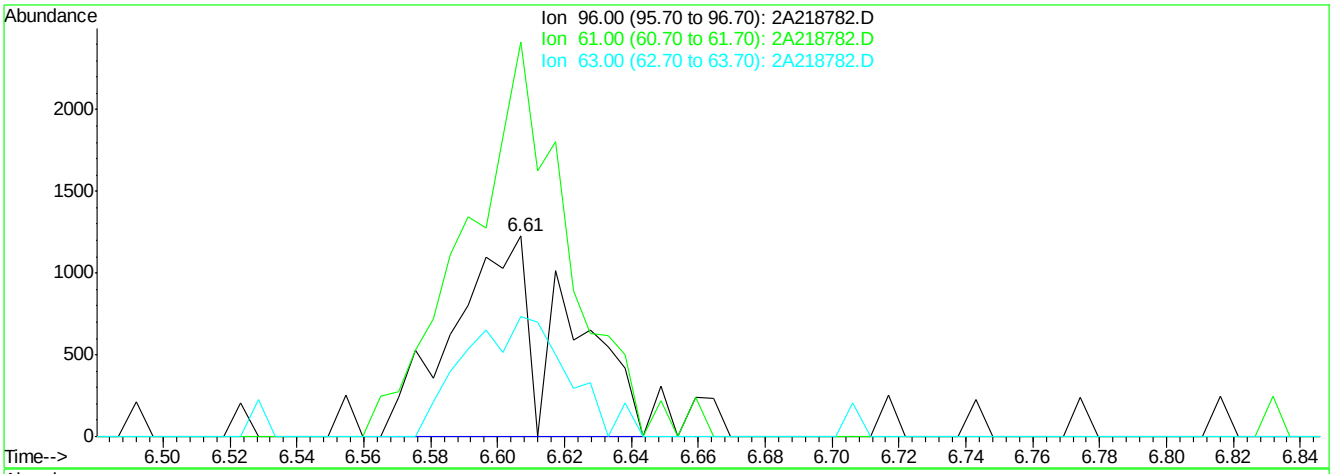
2A218782.D M2A9511.M Mon Aug 01 14:40:41 2022 MS2A

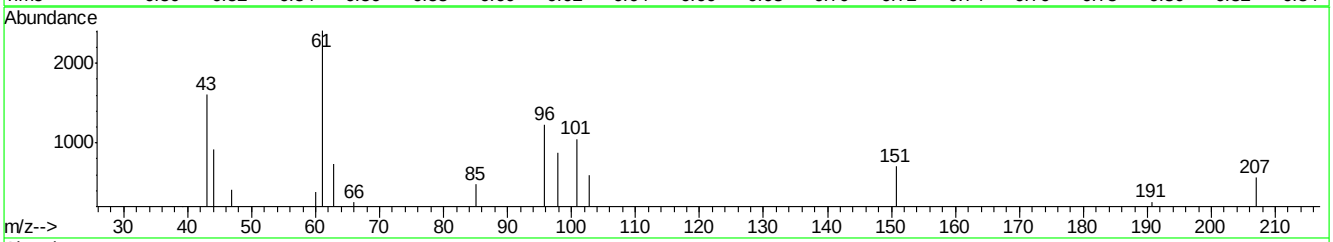
Quantitation Report (Qedit)

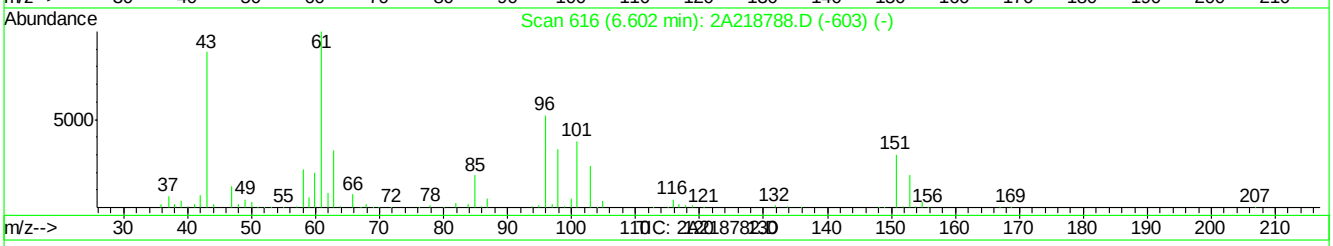
Data File : C:\MSDChem\1\DATA\V2A9511\2A218782.D Vial: 3
Acq On : 31 Jul 2022 5:51 pm Operator: PrashanS
Sample : IC9511-0.5 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:39:00 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
Last Update : Mon Aug 01 14:38:54 2022
Response via : Multiple Level Calibration




(17) 1,1-dichloroethene

6.61min 0.56ug/L m

response 2861

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 191.10 | 196.74 |
| 63.00 | 62.60 | 60.11 |
| 0.00 | 0.00 | 0.00 |

2A218782.D M2A9511.M Mon Aug 01 14:40:55 2022 MS2A

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/01/22 19:36

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218783.D
Acq On : 31 Jul 2022 6:19 pm
Operator : PrashanS
Sample : IC9511-1
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 15:19:51 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
QLast Update : Mon Aug 01 14:46:21 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 407382 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 694582 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 941814 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 912974 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 490057 | 50.00 | ug/L | | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 694582 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 328824 | 50.39 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.78% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 436526 | 49.79 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.58% | | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1114699 | 49.93 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.86% | | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 458403 | 50.58 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.16% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 6.01 | 45 | 9817 | 99.45 | ug/L | | 78 |
| 3) tertiary butyl alcohol | 7.38 | 59 | 5000 | 5.04 | ug/L | | 96 |
| 4) 1,4-dioxane | 11.08 | 88 | 1387 | 18.53 | ug/L | # | 54 |
| 6) chlorodifluoromethane | 3.99 | 51 | 9439 | 1.04 | ug/L | | 89 |
| 7) dichlorodifluoromethane | 3.98 | 85 | 9663 | 1.12 | ug/L | | 70 |
| 8) chloromethane | 4.32 | 50 | 12556 | 1.01 | ug/L | | 93 |
| 9) vinyl chloride | 4.56 | 62 | 9647 | 1.10 | ug/L | | 70 |
| 10) 1,3-butadiene | 4.61 | 54 | 8189 | 0.95 | ug/L | | 87 |
| 11) bromomethane | 5.17 | 94 | 5519 | 0.98 | ug/L | # | 65 |
| 12) chloroethane | 5.35 | 64 | 4321 | 1.03 | ug/L | | 76 |
| 13) trichlorofluoromethane | 5.79 | 101 | 10052 | 1.04 | ug/L | | 88 |
| 14) ethyl ether | 6.19 | 74 | 3197 | 0.99 | ug/L | # | 58 |
| 15) acrolein | 6.42 | 56 | 1508m | 0.99 | ug/L | | |
| 16) freon 113 | 6.60 | 151 | 4687 | 0.90 | ug/L | # | 86 |
| 17) 1,1-dichloroethene | 6.60 | 96 | 4941 | 0.94 | ug/L | | 96 |
| 18) acetone | 6.61 | 43 | 10837 | 3.96 | ug/L | | 99 |
| 19) acetonitrile | 7.04 | 41 | 10917 | 10.18 | ug/L | | 77 |
| 20) iodomethane | 6.85 | 142 | 9505 | 0.92 | ug/L | | 91 |
| 21) carbon disulfide | 6.99 | 76 | 17079 | 0.98 | ug/L | | 96 |
| 22) methylene chloride | 7.30 | 84 | 6013 | 0.91 | ug/L | | 95 |
| 23) methyl acetate | 7.07 | 43 | 6007 | 0.91 | ug/L | | 84 |
| 24) methyl tert butyl ether | 7.66 | 73 | 18028 | 0.95 | ug/L | | 92 |
| 25) trans-1,2-dichloroethene | 7.69 | 96 | 5966 | 0.99 | ug/L | | 96 |
| 26) hexane | 8.03 | 57 | 9813 | 0.90 | ug/L | | 82 |
| 27) di-isopropyl ether | 8.25 | 45 | 24016 | 0.92 | ug/L | | 94 |
| 28) ethyl tert-butyl ether | 8.70 | 59 | 21605 | 0.95 | ug/L | | 87 |
| 29) 2-butanone | 8.91 | 72 | 2520 | 3.44 | ug/L | # | 50 |
| 30) 1,1-dichloroethane | 8.25 | 63 | 11081 | 0.94 | ug/L | | 97 |
| 31) chloroprene | 8.36 | 53 | 10206 | 0.94 | ug/L | | 91 |
| 32) acrylonitrile | 7.62 | 53 | 2570m | 0.85 | ug/L | | |
| 33) vinyl acetate | 8.21 | 86 | 747 | 0.67 | ug/L | # | 6 |
| 34) ethyl acetate | 8.93 | 45 | 963 | 0.71 | ug/L | # | 64 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218783.D
Acq On : 31 Jul 2022 6:19 pm
Operator : PrashanS
Sample : IC9511-1
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 15:19:51 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
QLast Update : Mon Aug 01 14:46:21 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 9.00 | 77 | 8946 | 0.92 ug/L | | 92 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 6297 | 0.96 ug/L | # | 75 |
| 37) propionitrile | 9.00 | 54 | 10369 | 9.67 ug/L | | 86 |
| 38) bromochloromethane | 9.25 | 130 | 4198 | 0.99 ug/L | | 93 |
| 39) tetrahydrofuran | 9.29 | 42 | 3638 | 1.35 ug/L | | 78 |
| 40) chloroform | 9.35 | 83 | 12172 | 0.92 ug/L | | 92 |
| 41) tert-butyl formate | 9.39 | 59 | 5152 | 0.92 ug/L | | 92 |
| 42) isobutyl alcohol | 9.75 | 43 | 4125 | 8.60 ug/L | # | 76 |
| 44) methacrylonitrile | 9.19 | 67 | 2548 | 0.94 ug/L | # | 57 |
| 45) 1,1,1-trichloroethane | 9.61 | 97 | 10154 | 0.98 ug/L | | 87 |
| 46) cyclohexane | 9.71 | 84 | 8523 | 1.05 ug/L | | 87 |
| 47) 1,1-dichloropropene | 9.78 | 75 | 7540 | 0.86 ug/L | | 94 |
| 48) tert-amyl alcohol | 9.91 | 73 | 2477 | 5.91 ug/L | # | 31 |
| 49) carbon tetrachloride | 9.79 | 117 | 8857 | 0.93 ug/L | | 91 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 26242 | 0.97 ug/L | | 98 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 19112 | 0.94 ug/L | | 98 |
| 54) n-butyl alcohol | 10.51 | 56 | 9956 | 40.88 ug/L | # | 66 |
| 55) benzene | 10.02 | 78 | 22332 | 0.99 ug/L | | 94 |
| 56) heptane | 10.28 | 57 | 5347 | 1.02 ug/L | | 87 |
| 57) isopropyl acetate | 9.94 | 87 | 1386 | 1.03 ug/L | # | 21 |
| 58) 1,2-dichloroethane | 10.04 | 62 | 10727 | 0.97 ug/L | | 92 |
| 59) trichloroethene | 10.74 | 95 | 6125 | 0.94 ug/L | | 99 |
| 60) ethyl acrylate | 10.75 | 55 | 9095 | 0.88 ug/L | | 69 |
| 61) 2-nitropropane | 11.50 | 41 | 2542 | 0.93 ug/L | # | 73 |
| 63) methyl methacrylate | 11.01 | 100 | 1221 | 0.73 ug/L | # | 59 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 6477 | 0.99 ug/L | | 91 |
| 65) methylcyclohexane | 11.04 | 83 | 10571 | 1.02 ug/L | | 88 |
| 66) dibromomethane | 11.15 | 93 | 3826 | 0.82 ug/L | | 82 |
| 67) bromodichloromethane | 11.29 | 83 | 8579 | 0.92 ug/L | | 99 |
| 68) epichlorohydrin | 11.63 | 57 | 3017 | 3.67 ug/L | | 74 |
| 69) cis-1,3-dichloropropene | 11.76 | 75 | 9309 | 0.95 ug/L | | 91 |
| 70) 4-methyl-2-pentanone | 11.87 | 58 | 11509 | 3.68 ug/L | | 88 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 3012 | 16.75 ug/L | | 83 |
| 74) toluene | 12.14 | 92 | 13671 | 0.91 ug/L | | 97 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 8823 | 0.93 ug/L | | 90 |
| 76) ethyl methacrylate | 12.32 | 69 | 6930 | 0.87 ug/L | | 87 |
| 77) 1,1,2-trichloroethane | 12.53 | 83 | 4777 | 0.96 ug/L | # | 79 |
| 78) 2-hexanone | 12.71 | 58 | 11006 | 3.64 ug/L | | 94 |
| 79) tetrachloroethene | 12.69 | 166 | 7061 | 0.95 ug/L | | 95 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 8963 | 0.89 ug/L | | 91 |
| 81) butyl acetate | 12.79 | 56 | 5063 | 1.00 ug/L | # | 60 |
| 82) dibromochloromethane | 12.96 | 129 | 6773 | 0.93 ug/L | | 90 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 5756 | 0.95 ug/L | | 99 |
| 84) n-butyl ether | 13.56 | 57 | 27691m | 0.93 ug/L | | |
| 85) chlorobenzene | 13.59 | 112 | 15502 | 0.98 ug/L | | 99 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 6041 | 0.95 ug/L | | 94 |
| 87) ethylbenzene | 13.66 | 91 | 26935 | 0.95 ug/L | | 89 |
| 88) m,p-xylene | 13.78 | 106 | 20264 | 1.90 ug/L | | 97 |
| 89) o-xylene | 14.18 | 91 | 21553 | 0.94 ug/L | | 88 |
| 90) styrene | 14.19 | 104 | 15596 | 0.91 ug/L | | 94 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218783.D
Acq On : 31 Jul 2022 6:19 pm
Operator : PrashanS
Sample : IC9511-1
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 15:19:51 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
QLast Update : Mon Aug 01 14:46:21 2022
Response via : Initial Calibration

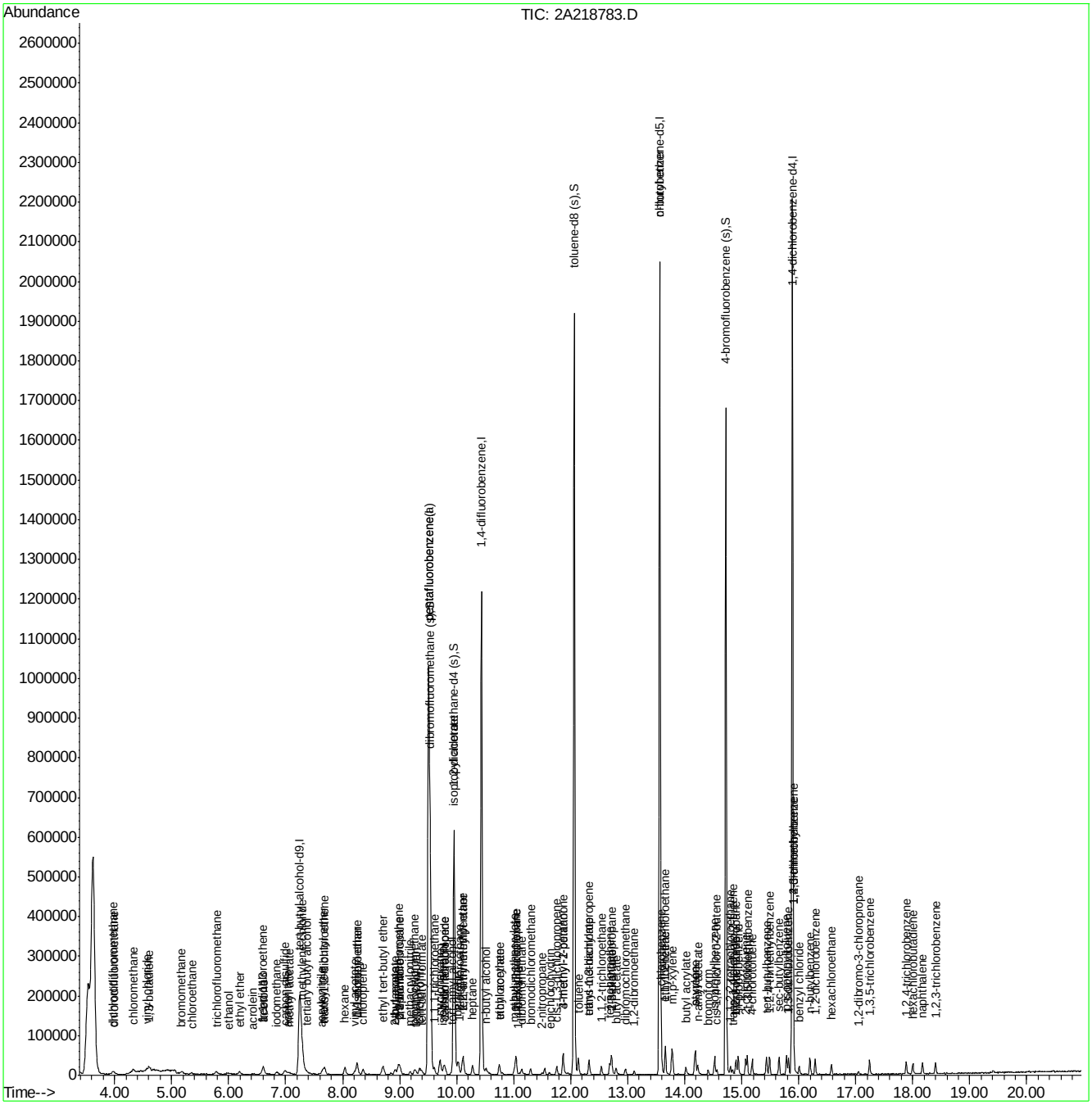
| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 91) n-amyl acetate | 14.22 | 70 | 3976 | 0.93 ug/L # | 78 |
| 92) bromoform | 14.41 | 173 | 4471 | 0.86 ug/L | 96 |
| 93) butyl acrylate | 14.02 | 55 | 12771 | 0.86 ug/L | 89 |
| 94) isopropylbenzene | 14.53 | 105 | 25343 | 0.93 ug/L | 98 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 2072 | 0.71 ug/L # | 86 |
| 98) bromobenzene | 14.90 | 156 | 7240 | 0.86 ug/L | 92 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 8059 | 0.96 ug/L | 82 |
| 100) trans-1,4-dichloro-2-buten | 14.84 | 53 | 2192 | 0.76 ug/L # | 65 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 1960 | 0.92 ug/L | 92 |
| 102) n-propylbenzene | 14.94 | 91 | 31813 | 0.98 ug/L | 93 |
| 103) 2-chlorotoluene | 15.07 | 126 | 6407 | 0.91 ug/L # | 85 |
| 104) 4-chlorotoluene | 15.18 | 91 | 19712 | 0.97 ug/L | 99 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 20965 | 0.94 ug/L | 97 |
| 106) tert-butylbenzene | 15.44 | 119 | 18253 | 0.93 ug/L | 95 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 21476 | 0.94 ug/L | 93 |
| 108) sec-butylbenzene | 15.66 | 105 | 27429 | 0.95 ug/L | 96 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 13883 | 0.98 ug/L | 88 |
| 110) p-isopropyltoluene | 15.79 | 119 | 23162 | 0.92 ug/L | 97 |
| 111) benzyl chloride | 16.01 | 91 | 11789 | 0.85 ug/L | 96 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 21971 | 0.90 ug/L | 92 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 14668 | 0.97 ug/L | 99 |
| 114) 1,2-dichlorobenzene | 16.29 | 146 | 13606 | 0.99 ug/L | 97 |
| 115) n-butylbenzene | 16.19 | 92 | 11781 | 0.93 ug/L | 92 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 1511 | 0.87 ug/L | 88 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 10119 | 0.93 ug/L | 94 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 8315 | 0.93 ug/L | 92 |
| 119) hexachlorobutadiene | 18.00 | 225 | 4594 | 1.04 ug/L | 92 |
| 120) naphthalene | 18.17 | 128 | 20366 | 0.95 ug/L | 95 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 7732 | 0.93 ug/L | 93 |
| 122) hexachloroethane | 16.57 | 201 | 3247 | 0.88 ug/L | 89 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218783.D
Acq On : 31 Jul 2022 6:19 pm
Operator : PrashanS
Sample : IC9511-1
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 15:19:51 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:38:54 2022
QLast Update : Mon Aug 01 14:46:21 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V2A9511-IC9511
**Lab FileID:** 2A218783.D
**Injection Time:** 07/31/22 18:19
**Method:** SW846 8260D
**Analyst approved:** 08/01/22 15:32 MoHui Huang
**Supervisor approved:** 08/01/22 19:36 Kanya Veerawat

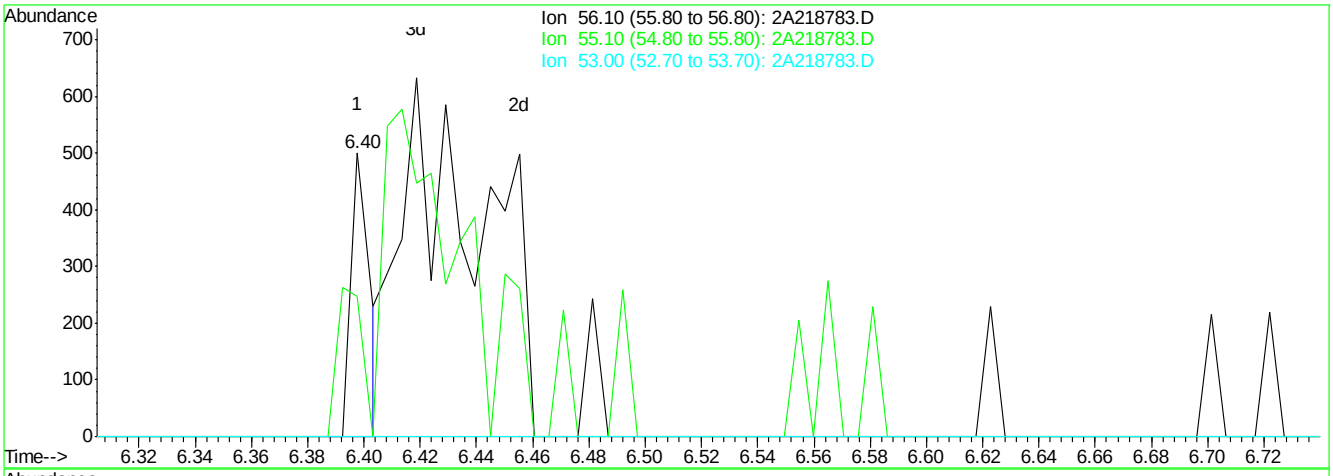
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Acrolein | 107-02-8 | | 6.42 | Split peak |
| Acrylonitrile | 107-13-1 | | 7.62 | Split peak |
| n-Butyl Ether | 142-96-1 | | 13.56 | Missed peak |

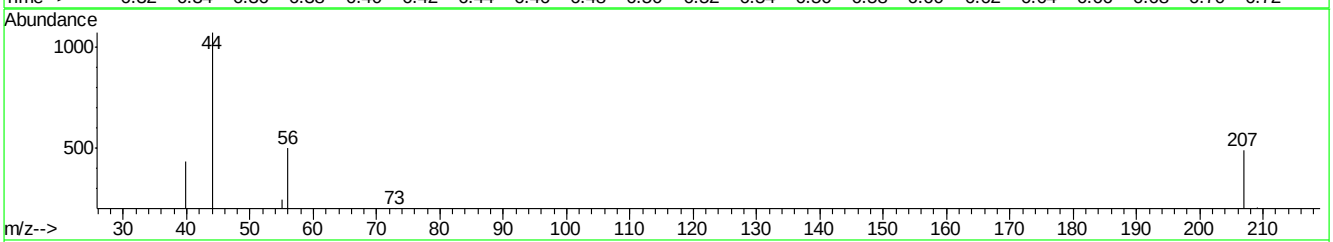
Quantitation Report (Qedit)

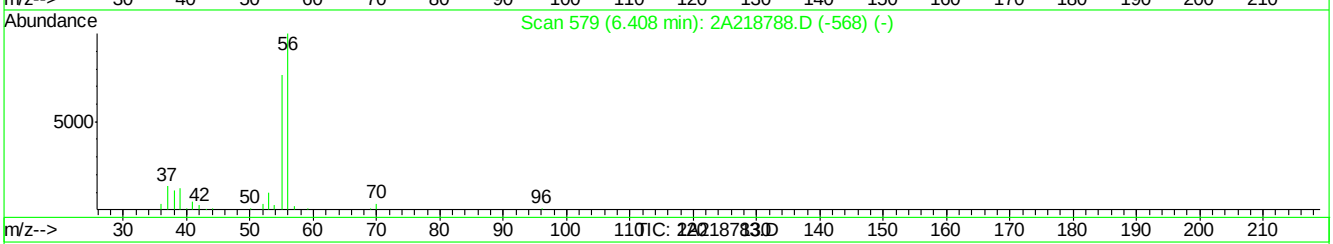
Data File : C:\MSDChem\1\DATA\V2A9511\2A218783.D Vial: 4
Acq On : 31 Jul 2022 6:19 pm Operator: PrashanS
Sample : IC9511-1 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:46:27 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
Last Update : Mon Aug 01 14:46:21 2022
Response via : Multiple Level Calibration




(15) acrolein

6.40min 0.15ug/L

response 229

| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 100 |
| 55.10 | 76.40 | 49.60 |
| 53.00 | 9.70 | 0.00 |
| 0.00 | 0.00 | 0.00 |

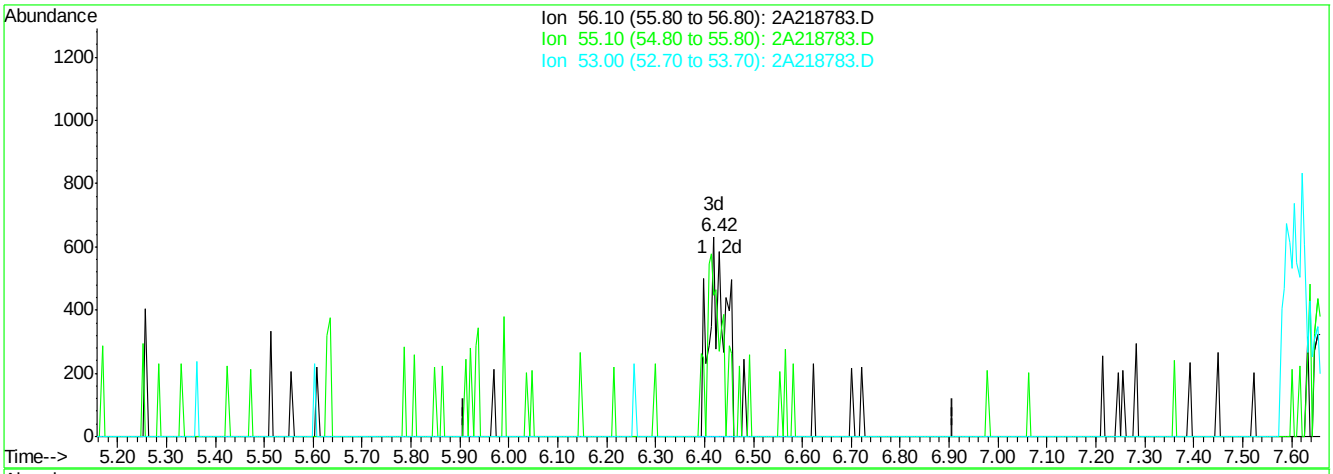
2A218783.D M2A9511.M Mon Aug 01 14:47:14 2022 MS2A

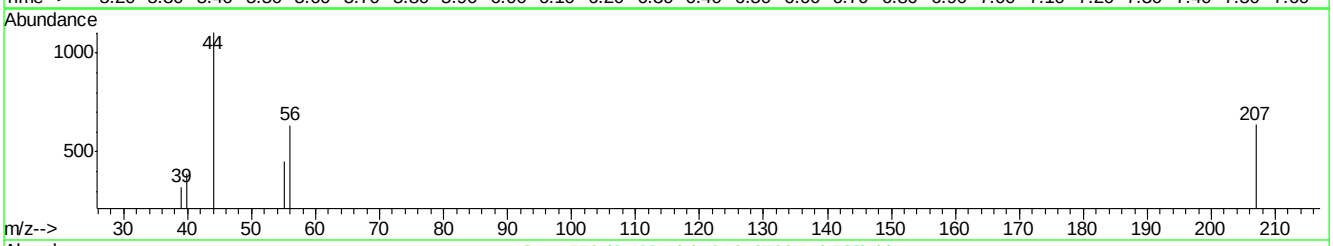
Quantitation Report (Qedit)

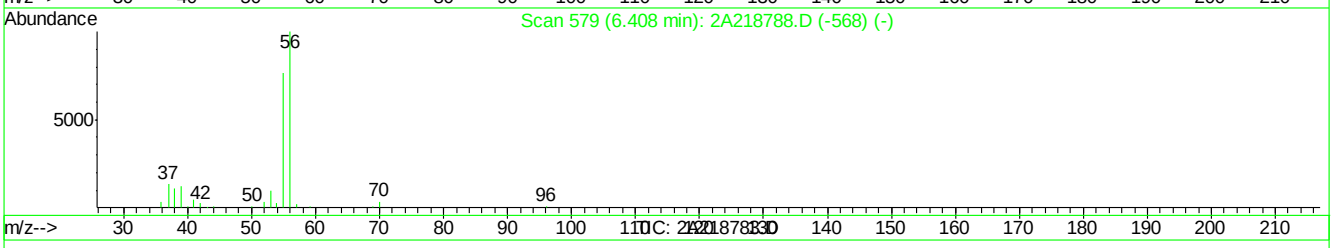
Data File : C:\MSDChem\1\DATA\V2A9511\2A218783.D Vial: 4
Acq On : 31 Jul 2022 6:19 pm Operator: PrashanS
Sample : IC9511-1 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:46:27 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
Last Update : Mon Aug 01 14:46:21 2022
Response via : Multiple Level Calibration




(15) acrolein

6.42min 0.99ug/L m

response 1508

| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 100 |
| 55.10 | 76.40 | 70.77 |
| 53.00 | 9.70 | 0.00 |
| 0.00 | 0.00 | 0.00 |

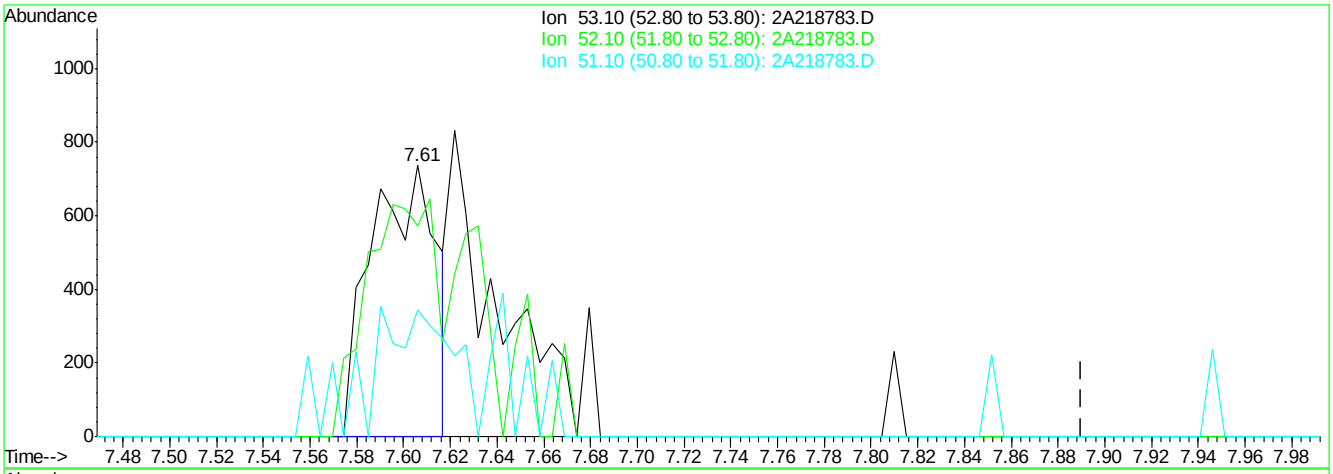
2A218783.D M2A9511.M Mon Aug 01 14:47:29 2022 MS2A

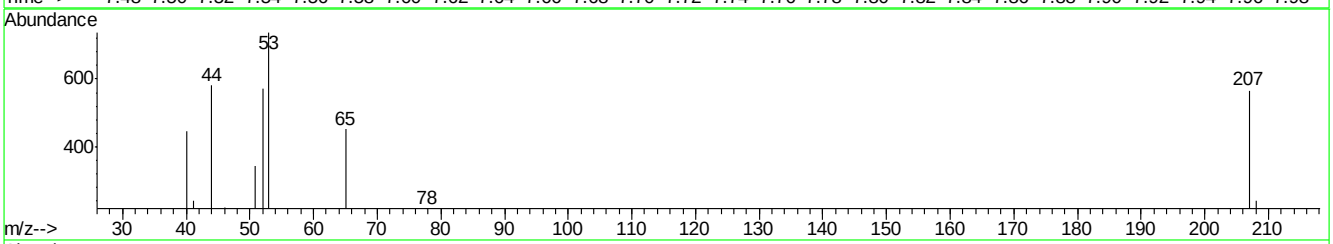
Quantitation Report (Qedit)

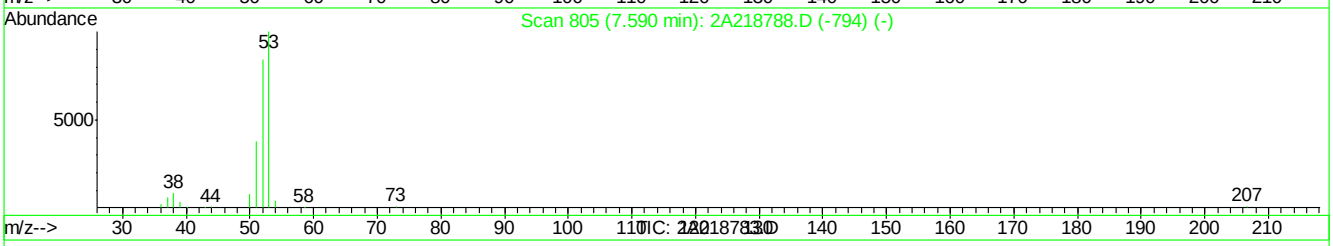
Data File : C:\MSDChem\1\DATA\V2A9511\2A218783.D Vial: 4
Acq On : 31 Jul 2022 6:19 pm Operator: PrashanS
Sample : IC9511-1 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:46:27 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
Last Update : Mon Aug 01 14:46:21 2022
Response via : Multiple Level Calibration




(32) acrylonitrile

7.61min 0.47ug/L

response 1407

| Ion | Exp% | Act% |
|---|---|---|
| 53.10 | 100 | 100 |
| 52.10 | 84.10 | 77.61 |
| 51.10 | 37.90 | 19.54 |
| 0.00 | 0.00 | 0.00 |

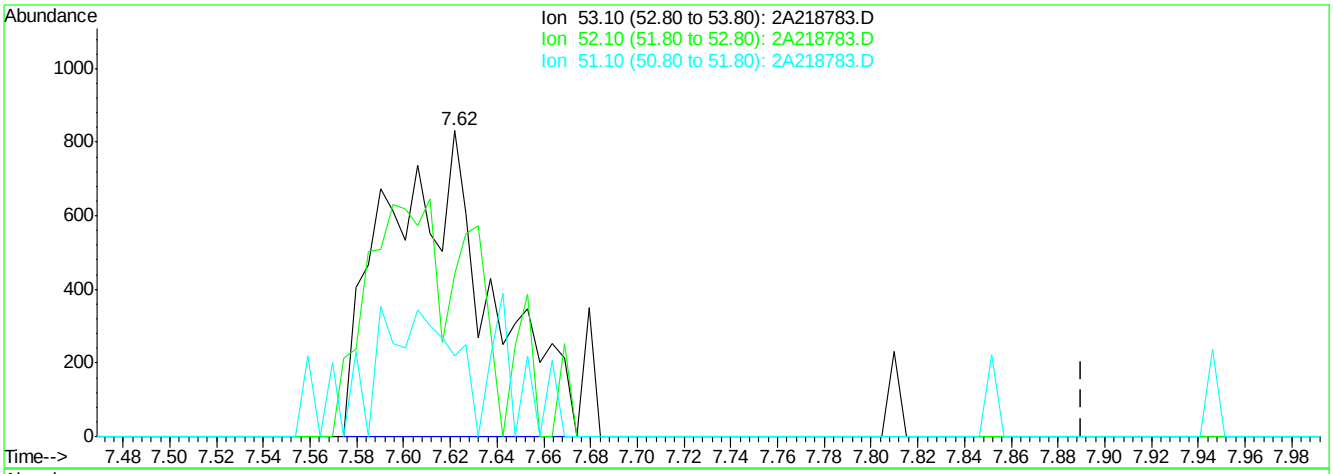
2A218783.D M2A9511.M Mon Aug 01 14:48:09 2022 MS2A

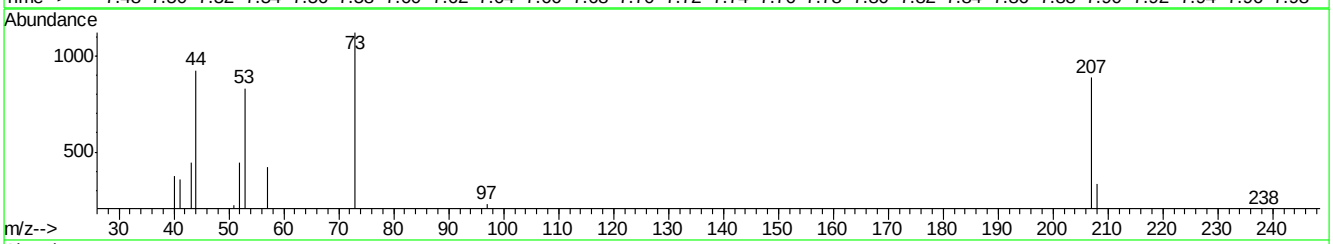
Quantitation Report (Qedit)

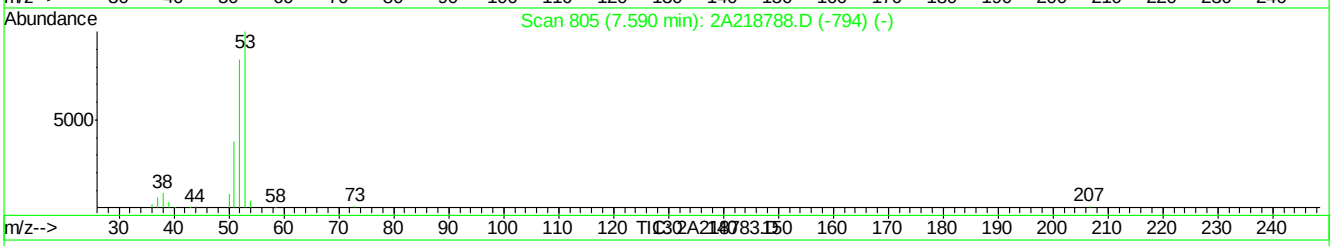
Data File : C:\MSDChem\1\DATA\V2A9511\2A218783.D Vial: 4
Acq On : 31 Jul 2022 6:19 pm Operator: PrashanS
Sample : IC9511-1 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:46:27 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
Last Update : Mon Aug 01 14:46:21 2022
Response via : Multiple Level Calibration




(32) acrylonitrile

7.62min 0.85ug/L m

response 2570

| Ion | Exp% | Act% |
|---|---|---|
| 53.10 | 100 | 100 |
| 52.10 | 84.10 | 53.06# |
| 51.10 | 37.90 | 26.41 |
| 0.00 | 0.00 | 0.00 |

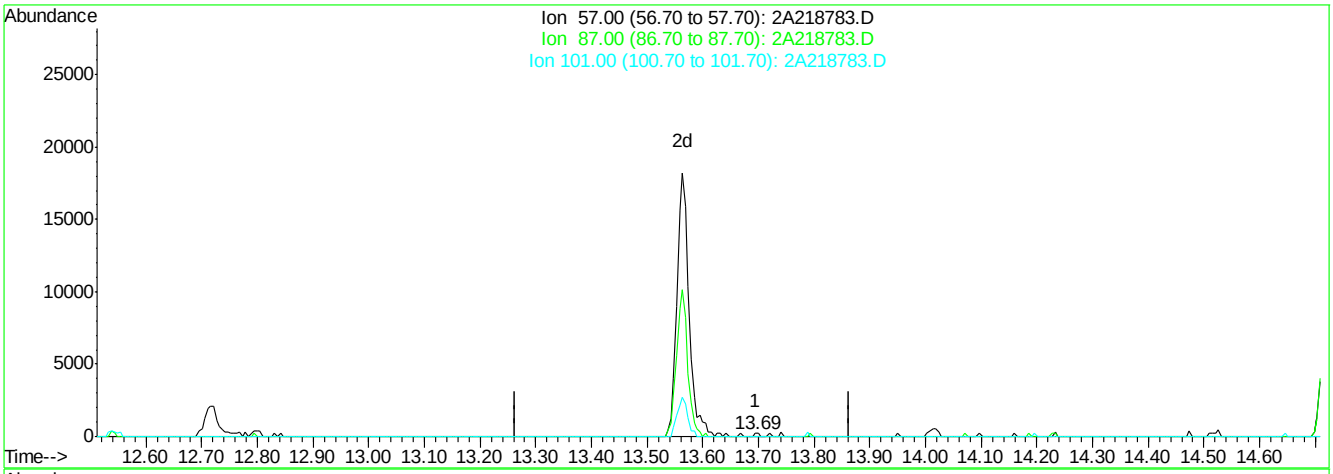
2A218783.D M2A9511.M Mon Aug 01 14:48:26 2022 MS2A

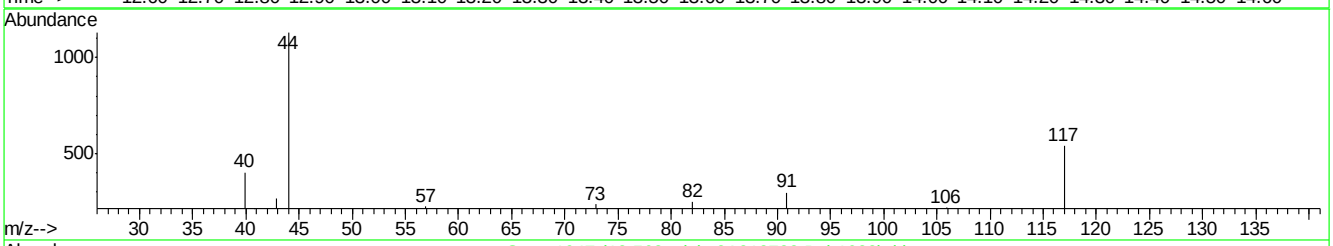
Quantitation Report (Qedit)

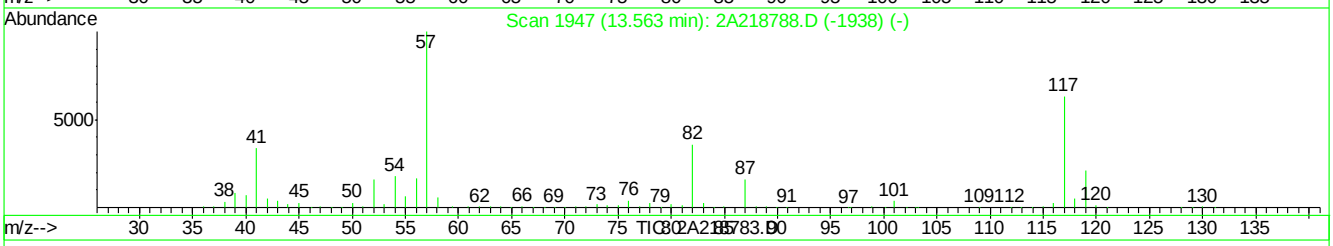
Data File : C:\MSDChem\1\DATA\V2A9511\2A218783.D Vial: 4
Acq On : 31 Jul 2022 6:19 pm Operator: PrashanS
Sample : IC9511-1 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:46:27 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
Last Update : Mon Aug 01 14:46:21 2022
Response via : Multiple Level Calibration




(84) n-butyl ether

13.69min 0.00ug/L

response 141

| Ion | Exp% | Act% |
|---|---|---|
| 57.00 | 100 | 100 |
| 87.00 | 16.10 | 0.00 |
| 101.00 | 3.80 | 0.00 |
| 0.00 | 0.00 | 0.00 |

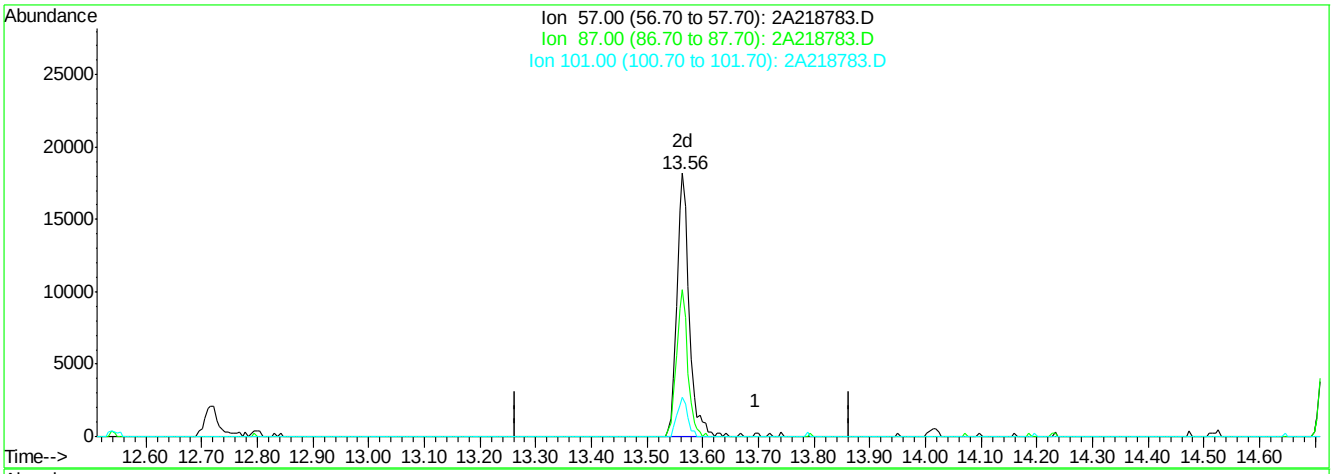
2A218783.D M2A9511.M Mon Aug 01 14:50:31 2022 MS2A

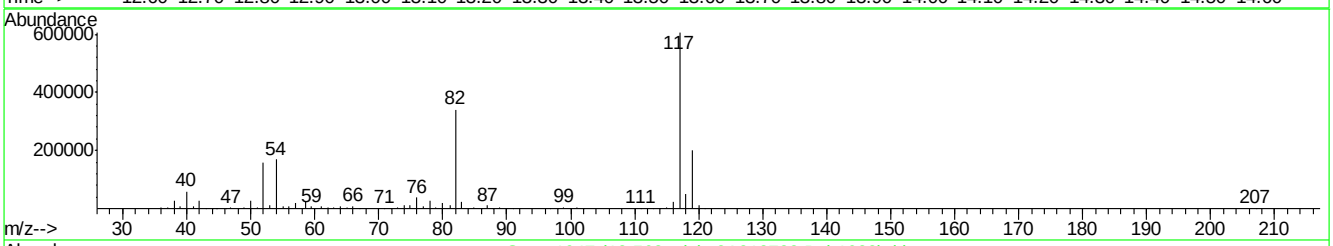
Quantitation Report (Qedit)

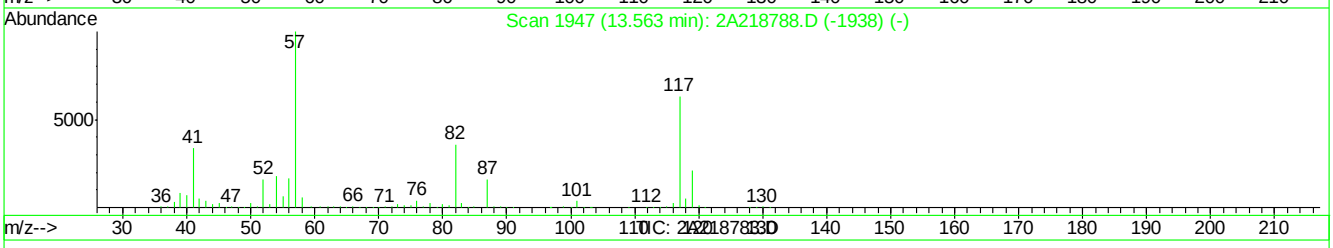
Data File : C:\MSDChem\1\DATA\V2A9511\2A218783.D Vial: 4
Acq On : 31 Jul 2022 6:19 pm Operator: PrashanS
Sample : IC9511-1 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:46:27 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
Last Update : Mon Aug 01 14:46:21 2022
Response via : Multiple Level Calibration




(84) n-butyl ether

13.56min 0.93ug/L m

response 27691

| Ion | Exp% | Act% |
|---|---|---|
| 57.00 | 100 | 100 |
| 87.00 | 16.10 | 55.73# |
| 101.00 | 3.80 | 14.75 |
| 0.00 | 0.00 | 0.00 |

2A218783.D M2A9511.M Mon Aug 01 14:50:48 2022 MS2A

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/01/22 19:36

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218784.D
Acq On : 31 Jul 2022 6:48 pm
Operator : PrashanS
Sample : IC9511-2
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 14:52:53 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
QLast Update : Mon Aug 01 14:52:17 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 406167 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.50 | 168 | 697988 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 941963 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 907257 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 496275 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.50 | 168 | 696891 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 330509 | 50.31 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.62% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 439811 | 50.21 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.42% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1112053 | 50.14 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.28% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 455531 | 49.49 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.98% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.97 | 45 | 17872 | 182.09 | ug/L | 77 |
| 3) tertiary butyl alcohol | 7.36 | 59 | 10965 | 11.05 | ug/L | 71 |
| 4) 1,4-dioxane | 11.08 | 88 | 3209 | 49.38 | ug/L | 91 |
| 6) chlorodifluoromethane | 3.99 | 51 | 20241 | 2.19 | ug/L | 96 |
| 7) dichlorodifluoromethane | 3.97 | 85 | 19834 | 2.20 | ug/L | 92 |
| 8) chloromethane | 4.34 | 50 | 27802 | 2.23 | ug/L | 90 |
| 9) vinyl chloride | 4.57 | 62 | 20617 | 2.26 | ug/L | 99 |
| 10) 1,3-butadiene | 4.61 | 54 | 17744 | 2.09 | ug/L | 86 |
| 11) bromomethane | 5.17 | 94 | 11645 | 2.07 | ug/L | 97 |
| 12) chloroethane | 5.36 | 64 | 9254 | 2.17 | ug/L | 89 |
| 13) trichlorofluoromethane | 5.80 | 101 | 23386 | 2.39 | ug/L | 87 |
| 14) ethyl ether | 6.20 | 74 | 7306 | 2.25 | ug/L | 79 |
| 15) acrolein | 6.42 | 56 | 3106m | 2.04 | ug/L | |
| 16) freon 113 | 6.61 | 151 | 10516 | 2.08 | ug/L | 87 |
| 17) 1,1-dichloroethene | 6.61 | 96 | 11256 | 2.17 | ug/L | 86 |
| 18) acetone | 6.61 | 43 | 23139 | 8.44 | ug/L | 87 |
| 19) acetonitrile | 7.03 | 41 | 23698 | 21.87 | ug/L | 84 |
| 20) iodomethane | 6.85 | 142 | 20828 | 2.05 | ug/L | 91 |
| 21) carbon disulfide | 6.99 | 76 | 36505 | 2.10 | ug/L | 95 |
| 22) methylene chloride | 7.30 | 84 | 12963 | 2.01 | ug/L | 94 |
| 23) methyl acetate | 7.06 | 43 | 14174 | 2.21 | ug/L | 98 |
| 24) methyl tert butyl ether | 7.65 | 73 | 39512 | 2.09 | ug/L | 96 |
| 25) trans-1,2-dichloroethene | 7.68 | 96 | 12951 | 2.14 | ug/L | 87 |
| 26) hexane | 8.03 | 57 | 21554 | 2.01 | ug/L | 92 |
| 27) di-isopropyl ether | 8.24 | 45 | 54810 | 2.13 | ug/L | 94 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 46689 | 2.07 | ug/L | 98 |
| 29) 2-butanone | 8.91 | 72 | 5869 | 8.57 | ug/L # | 72 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 24048 | 2.05 | ug/L | 97 |
| 31) chloroprene | 8.35 | 53 | 22218 | 2.08 | ug/L | 94 |
| 32) acrylonitrile | 7.61 | 53 | 5776 | 2.06 | ug/L | 86 |
| 33) vinyl acetate | 8.20 | 86 | 2012 | 2.15 | ug/L # | 47 |
| 34) ethyl acetate | 8.93 | 45 | 2817 | 2.42 | ug/L # | 70 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218784.D
Acq On : 31 Jul 2022 6:48 pm
Operator : PrashanS
Sample : IC9511-2
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 14:52:53 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
QLast Update : Mon Aug 01 14:52:17 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 9.00 | 77 | 18406 | 1.92 | ug/L | | 94 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 13908 | 2.13 | ug/L | | 84 |
| 37) propionitrile | 8.99 | 54 | 24115 | 22.62 | ug/L | | 90 |
| 38) bromochloromethane | 9.26 | 130 | 8988 | 2.12 | ug/L | | 98 |
| 39) tetrahydrofuran | 9.29 | 42 | 7093 | 2.23 | ug/L | | 75 |
| 40) chloroform | 9.35 | 83 | 25721 | 1.99 | ug/L | | 91 |
| 41) tert-butyl formate | 9.38 | 59 | 10968 | 1.99 | ug/L | | 97 |
| 42) isobutyl alcohol | 9.76 | 43 | 10528 | 23.48 | ug/L | # | 81 |
| 44) methacrylonitrile | 9.18 | 67 | 5507 | 2.08 | ug/L | # | 60 |
| 45) 1,1,1-trichloroethane | 9.60 | 97 | 21983 | 2.13 | ug/L | | 96 |
| 46) cyclohexane | 9.71 | 84 | 19642 | 2.38 | ug/L | | 96 |
| 47) 1,1-dichloropropene | 9.78 | 75 | 17593 | 2.08 | ug/L | | 94 |
| 48) tert-amyl alcohol | 9.92 | 73 | 5096 | 11.09 | ug/L | # | 90 |
| 49) carbon tetrachloride | 9.80 | 117 | 19503 | 2.08 | ug/L | | 88 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 55279 | 2.07 | ug/L | | 96 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 40398 | 2.02 | ug/L | | 98 |
| 54) n-butyl alcohol | 10.50 | 56 | 28065 | 122.67 | ug/L | | 97 |
| 55) benzene | 10.02 | 78 | 46496 | 2.07 | ug/L | | 98 |
| 56) heptane | 10.28 | 57 | 11654 | 2.22 | ug/L | | 88 |
| 57) isopropyl acetate | 9.93 | 87 | 2880 | 2.11 | ug/L | # | 65 |
| 58) 1,2-dichloroethane | 10.05 | 62 | 22867 | 2.09 | ug/L | | 96 |
| 59) trichloroethene | 10.75 | 95 | 13196 | 2.05 | ug/L | | 90 |
| 60) ethyl acrylate | 10.74 | 55 | 19664 | 1.99 | ug/L | | 97 |
| 61) 2-nitropropane | 11.50 | 41 | 5321 | 2.01 | ug/L | | 82 |
| 62) 2-chloroethyl vinyl ether | 11.54 | 63 | 16170 | 8.48 | ug/L | | 95 |
| 63) methyl methacrylate | 11.01 | 100 | 3050 | 2.11 | ug/L | # | 58 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 13827 | 2.13 | ug/L | | 99 |
| 65) methylcyclohexane | 11.04 | 83 | 21661 | 2.08 | ug/L | | 97 |
| 66) dibromomethane | 11.15 | 93 | 9349 | 2.09 | ug/L | | 78 |
| 67) bromodichloromethane | 11.30 | 83 | 17874 | 1.95 | ug/L | | 95 |
| 68) epichlorohydrin | 11.62 | 57 | 8486 | 11.91 | ug/L | | 90 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 20285 | 2.10 | ug/L | | 94 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 26958 | 8.79 | ug/L | | 89 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 7496 | 44.07 | ug/L | # | 87 |
| 74) toluene | 12.13 | 92 | 30603 | 2.10 | ug/L | | 99 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 19401 | 2.09 | ug/L | | 87 |
| 76) ethyl methacrylate | 12.32 | 69 | 16811 | 2.22 | ug/L | | 86 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 10138 | 2.07 | ug/L | | 93 |
| 78) 2-hexanone | 12.71 | 58 | 25343 | 8.69 | ug/L | | 92 |
| 79) tetrachloroethene | 12.68 | 166 | 15667 | 2.15 | ug/L | | 96 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 20161 | 2.07 | ug/L | | 98 |
| 81) butyl acetate | 12.79 | 56 | 10423 | 2.07 | ug/L | | 97 |
| 82) dibromochloromethane | 12.96 | 129 | 14214 | 1.99 | ug/L | | 95 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 12770 | 2.14 | ug/L | | 99 |
| 84) n-butyl ether | 13.56 | 57 | 61494 | 2.11 | ug/L | | 70 |
| 85) chlorobenzene | 13.59 | 112 | 33272 | 2.13 | ug/L | | 92 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 12812 | 2.05 | ug/L | | 93 |
| 87) ethylbenzene | 13.66 | 91 | 58980 | 2.12 | ug/L | | 94 |
| 88) m,p-xylene | 13.78 | 106 | 44686 | 4.27 | ug/L | | 99 |
| 89) o-xylene | 14.18 | 91 | 46798 | 2.08 | ug/L | | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218784.D
Acq On : 31 Jul 2022 6:48 pm
Operator : PrashanS
Sample : IC9511-2
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 14:52:53 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
QLast Update : Mon Aug 01 14:52:17 2022
Response via : Initial Calibration

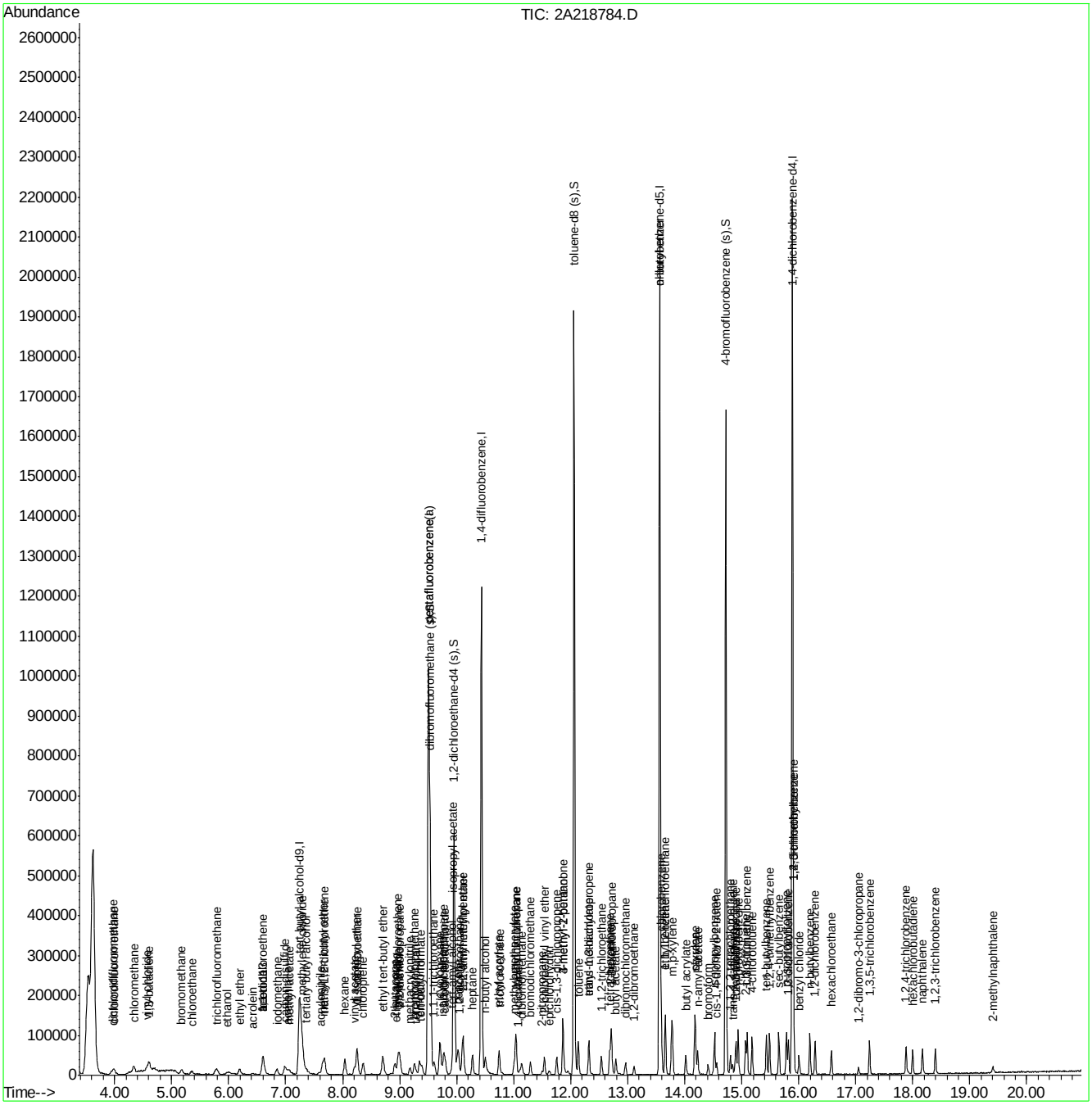
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 90) styrene | 14.19 | 104 | 36751 | 2.21 | ug/L | 95 |
| 91) n-amyl acetate | 14.23 | 70 | 9099 | 2.19 | ug/L | 89 |
| 92) bromoform | 14.41 | 173 | 10363 | 2.08 | ug/L | 93 |
| 93) butyl acrylate | 14.02 | 55 | 31834 | 2.27 | ug/L | 96 |
| 94) isopropylbenzene | 14.53 | 105 | 57577 | 2.17 | ug/L | 99 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 5382 | 2.06 | ug/L | 95 |
| 98) bromobenzene | 14.90 | 156 | 16313 | 1.98 | ug/L | 93 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 17550 | 2.08 | ug/L | 87 |
| 100) trans-1,4-dichloro-2-buten | 14.83 | 53 | 5379 | 2.09 | ug/L | 82 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 4449 | 2.12 | ug/L | 87 |
| 102) n-propylbenzene | 14.94 | 91 | 69905 | 2.14 | ug/L | 97 |
| 103) 2-chlorotoluene | 15.06 | 126 | 13917 | 1.99 | ug/L | 94 |
| 104) 4-chlorotoluene | 15.18 | 91 | 44218 | 2.16 | ug/L | 98 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 48190 | 2.16 | ug/L | 98 |
| 106) tert-butylbenzene | 15.44 | 119 | 39988 | 2.05 | ug/L | 95 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 47597 | 2.08 | ug/L | 90 |
| 108) sec-butylbenzene | 15.65 | 105 | 62703 | 2.17 | ug/L | 95 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 30917 | 2.17 | ug/L | 94 |
| 110) p-isopropyltoluene | 15.79 | 119 | 51218 | 2.05 | ug/L | 98 |
| 111) benzyl chloride | 16.01 | 91 | 27763 | 2.08 | ug/L | 98 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 50072 | 2.08 | ug/L | 93 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 31448 | 2.07 | ug/L | 99 |
| 114) 1,2-dichlorobenzene | 16.29 | 146 | 29453 | 2.12 | ug/L | 98 |
| 115) n-butylbenzene | 16.19 | 92 | 28112 | 2.23 | ug/L | 95 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 3737 | 2.22 | ug/L | 89 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 22718 | 2.10 | ug/L | 92 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 19225 | 2.16 | ug/L | 98 |
| 119) hexachlorobutadiene | 18.00 | 225 | 10068 | 2.23 | ug/L | 96 |
| 120) naphthalene | 18.17 | 128 | 46525 | 2.17 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 18839 | 2.28 | ug/L | 88 |
| 122) hexachloroethane | 16.58 | 201 | 7843 | 2.15 | ug/L | 92 |
| 123) 2-methylnaphthalene | 19.41 | 142 | 8512 | 0.68 | ug/L | 92 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218784.D
Acq On : 31 Jul 2022 6:48 pm
Operator : PrashanS
Sample : IC9511-2
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 14:52:53 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:46:21 2022
QLast Update : Mon Aug 01 14:52:17 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | V2A9511-IC9511 | **Method:** | SW846 8260D |
| **Lab FileID:** | 2A218784.D | **Analyst approved:** | 08/01/22 15:32 MoHui Huang |
| **Injection Time:** | 07/31/22 18:48 | **Supervisor approved:** | 08/01/22 19:36 Kanya Veerawat |

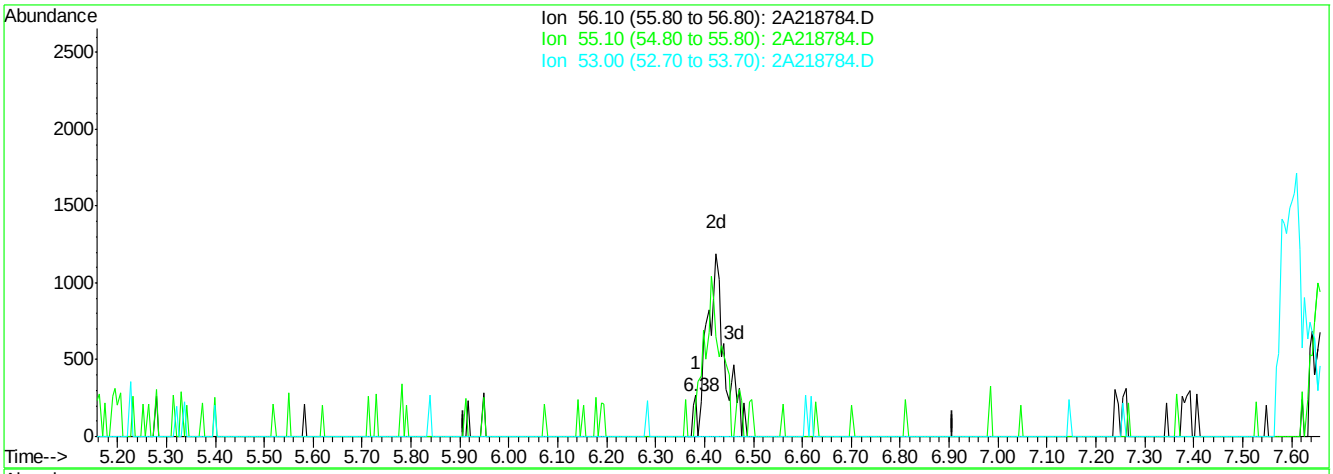
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Acrolein | 107-02-8 | | 6.42 | Missed peak |

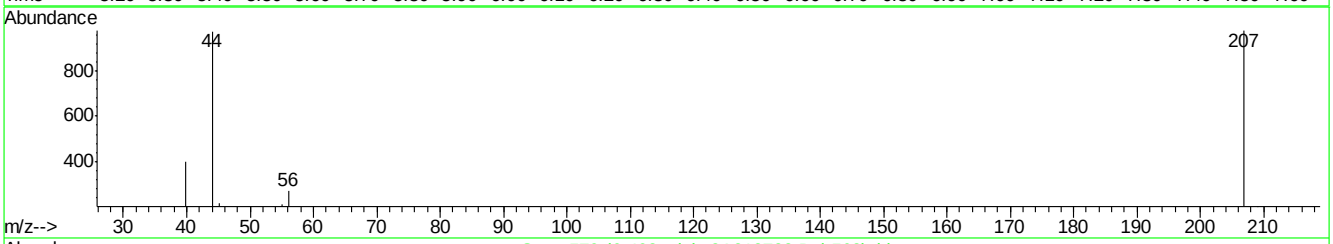
Quantitation Report (Qedit)

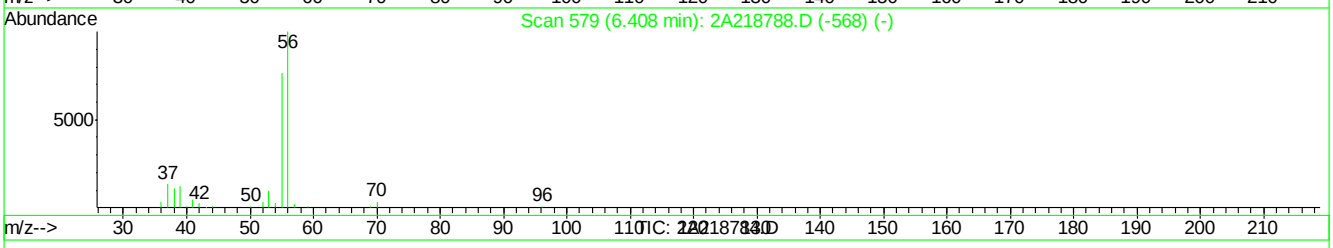
Data File : C:\MSDChem\1\DATA\V2A9511\2A218784.D Vial: 5
Acq On : 31 Jul 2022 6:48 pm Operator: PrashanS
Sample : IC9511-2 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:52:22 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:52:17 2022
Last Update : Mon Aug 01 14:52:17 2022
Response via : Multiple Level Calibration




(15) acrolein

6.38min 0.10ug/L

response 148

| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 100 |
| 55.10 | 76.40 | 79.18 |
| 53.00 | 9.70 | 0.00 |
| 0.00 | 0.00 | 0.00 |

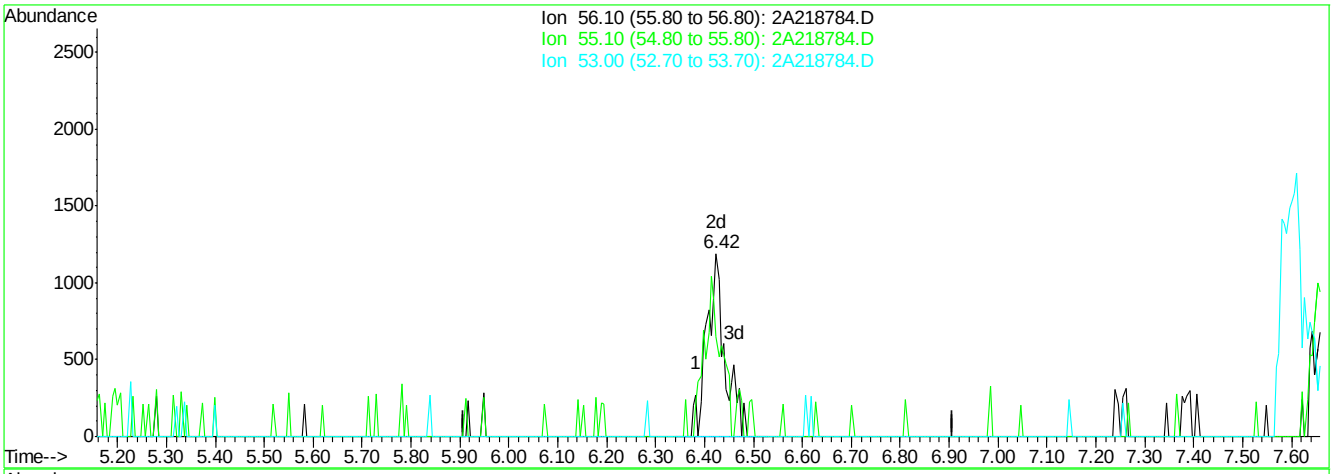
2A218784.D M2A9511.M Mon Aug 01 14:52:42 2022 MS2A

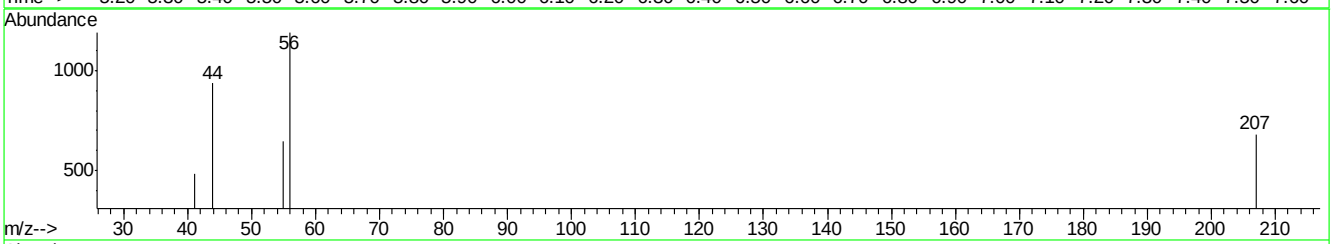
Quantitation Report (Qedit)

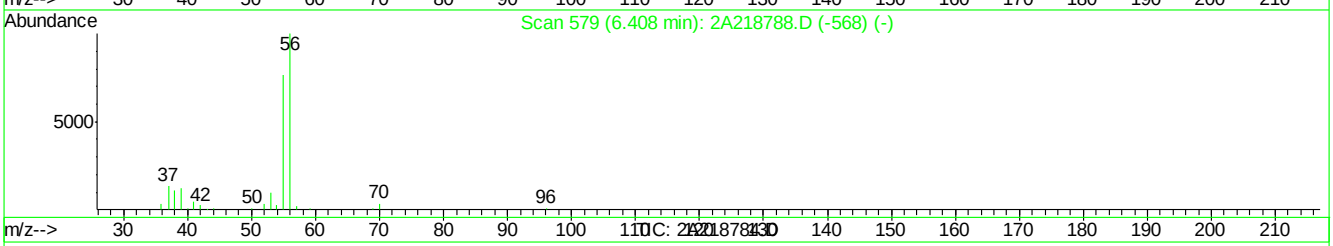
Data File : C:\MSDChem\1\DATA\V2A9511\2A218784.D Vial: 5
Acq On : 31 Jul 2022 6:48 pm Operator: PrashanS
Sample : IC9511-2 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:52:22 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:52:17 2022
Last Update : Mon Aug 01 14:52:17 2022
Response via : Multiple Level Calibration




(15) acrolein

6.42min 2.04ug/L m

response 3106

| Ion | Exp% | Act% |
|---|---|---|
| 56.10 | 100 | 100 |
| 55.10 | 76.40 | 54.50 |
| 53.00 | 9.70 | 0.00 |
| 0.00 | 0.00 | 0.00 |

2A218784.D M2A9511.M Mon Aug 01 14:52:58 2022 MS2A

# Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218785.D
Acq On : 31 Jul 2022 7:16 pm
Operator : PrashanS
Sample : IC9511-4
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 14:54:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:52:17 2022
QLast Update : Mon Aug 01 14:54:29 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.26 | 65 | 416050 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 695431 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 940726 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 905476 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 493868 | 50.00 | ug/L | | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 694712 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 328927 | 50.19 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.38% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 436131 | 49.81 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.62% | | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1111069 | 50.17 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.34% | | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 457236 | 50.02 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.04% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 39993 | 410.04 | ug/L | | 90 |
| 3) tertiary butyl alcohol | 7.37 | 59 | 19436 | 18.47 | ug/L | | 82 |
| 4) 1,4-dioxane | 11.08 | 88 | 7131 | 107.58 | ug/L | | 88 |
| 6) chlorodifluoromethane | 4.00 | 51 | 41773 | 4.43 | ug/L | | 99 |
| 7) dichlorodifluoromethane | 3.97 | 85 | 40185 | 4.36 | ug/L | | 97 |
| 8) chloromethane | 4.35 | 50 | 50924 | 3.98 | ug/L | | 94 |
| 9) vinyl chloride | 4.58 | 62 | 39185 | 4.18 | ug/L | | 97 |
| 10) 1,3-butadiene | 4.62 | 54 | 35609 | 4.16 | ug/L | | 92 |
| 11) bromomethane | 5.19 | 94 | 22658 | 4.01 | ug/L | | 85 |
| 12) chloroethane | 5.35 | 64 | 18524 | 4.28 | ug/L | | 89 |
| 13) trichlorofluoromethane | 5.80 | 101 | 44832 | 4.42 | ug/L | | 92 |
| 14) ethyl ether | 6.18 | 74 | 13322 | 4.00 | ug/L | | 84 |
| 15) acrolein | 6.42 | 56 | 4838 | 3.16 | ug/L | # | 39 |
| 16) freon 113 | 6.60 | 151 | 20536 | 4.04 | ug/L | # | 82 |
| 17) 1,1-dichloroethene | 6.61 | 96 | 21499 | 4.07 | ug/L | | 87 |
| 18) acetone | 6.62 | 43 | 43764 | 15.80 | ug/L | | 97 |
| 19) acetonitrile | 7.04 | 41 | 47369 | 42.87 | ug/L | | 88 |
| 20) iodomethane | 6.85 | 142 | 42592 | 4.18 | ug/L | | 92 |
| 21) carbon disulfide | 6.99 | 76 | 71073 | 4.05 | ug/L | | 96 |
| 22) methylene chloride | 7.31 | 84 | 25118 | 3.90 | ug/L | | 96 |
| 23) methyl acetate | 7.06 | 43 | 27246 | 4.15 | ug/L | | 98 |
| 24) methyl tert butyl ether | 7.65 | 73 | 76409 | 4.03 | ug/L | | 96 |
| 25) trans-1,2-dichloroethene | 7.69 | 96 | 23706 | 3.87 | ug/L | | 93 |
| 26) hexane | 8.05 | 57 | 42446 | 3.97 | ug/L | | 92 |
| 27) di-isopropyl ether | 8.26 | 45 | 106836 | 4.11 | ug/L | | 94 |
| 28) ethyl tert-butyl ether | 8.70 | 59 | 92606 | 4.09 | ug/L | | 92 |
| 29) 2-butanone | 8.91 | 72 | 11519 | 16.49 | ug/L | # | 88 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 45484 | 3.88 | ug/L | | 95 |
| 31) chloroprene | 8.36 | 53 | 44508 | 4.14 | ug/L | | 95 |
| 32) acrylonitrile | 7.60 | 53 | 11747 | 4.16 | ug/L | | 96 |
| 33) vinyl acetate | 8.20 | 86 | 4169 | 4.36 | ug/L | # | 74 |
| 34) ethyl acetate | 8.92 | 45 | 5537 | 4.46 | ug/L | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218785.D
Acq On : 31 Jul 2022 7:16 pm
Operator : PrashanS
Sample : IC9511-4
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 14:54:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:52:17 2022
QLast Update : Mon Aug 01 14:54:29 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 9.00 | 77 | 37380 | 3.95 | ug/L | | 96 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 26119 | 3.97 | ug/L | | 96 |
| 37) propionitrile | 8.99 | 54 | 44964 | 40.99 | ug/L | | 96 |
| 38) bromochloromethane | 9.26 | 130 | 17287 | 4.03 | ug/L | | 95 |
| 39) tetrahydrofuran | 9.28 | 42 | 13069 | 3.97 | ug/L | | 96 |
| 40) chloroform | 9.35 | 83 | 47228 | 3.67 | ug/L | | 96 |
| 41) tert-butyl formate | 9.38 | 59 | 23296 | 4.24 | ug/L | | 89 |
| 42) isobutyl alcohol | 9.76 | 43 | 17304 | 36.61 | ug/L | # | 71 |
| 44) methacrylonitrile | 9.19 | 67 | 11327 | 4.24 | ug/L | # | 76 |
| 45) 1,1,1-trichloroethane | 9.61 | 97 | 43710 | 4.19 | ug/L | | 96 |
| 46) cyclohexane | 9.71 | 84 | 36620 | 4.28 | ug/L | # | 77 |
| 47) 1,1-dichloropropene | 9.77 | 75 | 34037 | 4.00 | ug/L | | 89 |
| 48) tert-amyl alcohol | 9.92 | 73 | 9340 | 19.69 | ug/L | # | 85 |
| 49) carbon tetrachloride | 9.80 | 117 | 38452 | 4.08 | ug/L | | 92 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 109579 | 4.07 | ug/L | | 97 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 80456 | 4.02 | ug/L | | 99 |
| 54) n-butyl alcohol | 10.50 | 56 | 46816 | 193.91 | ug/L | | 98 |
| 55) benzene | 10.02 | 78 | 93859 | 4.15 | ug/L | | 97 |
| 56) heptane | 10.28 | 57 | 21696 | 4.05 | ug/L | | 94 |
| 57) isopropyl acetate | 9.94 | 87 | 5314 | 3.82 | ug/L | # | 65 |
| 58) 1,2-dichloroethane | 10.05 | 62 | 41512 | 3.75 | ug/L | | 98 |
| 59) trichloroethene | 10.74 | 95 | 26358 | 4.08 | ug/L | | 90 |
| 60) ethyl acrylate | 10.74 | 55 | 41329 | 4.19 | ug/L | | 97 |
| 61) 2-nitropropane | 11.50 | 41 | 9785 | 3.70 | ug/L | | 94 |
| 62) 2-chloroethyl vinyl ether | 11.54 | 63 | 39545 | 21.59 | ug/L | | 96 |
| 63) methyl methacrylate | 11.01 | 100 | 6410 | 4.36 | ug/L | | 92 |
| 64) 1,2-dichloropropane | 11.04 | 63 | 28062 | 4.25 | ug/L | | 95 |
| 65) methylcyclohexane | 11.04 | 83 | 43915 | 4.19 | ug/L | | 96 |
| 66) dibromomethane | 11.14 | 93 | 17112 | 3.80 | ug/L | | 85 |
| 67) bromodichloromethane | 11.30 | 83 | 36320 | 3.99 | ug/L | | 98 |
| 68) epichlorohydrin | 11.63 | 57 | 15785 | 20.86 | ug/L | | 93 |
| 69) cis-1,3-dichloropropene | 11.76 | 75 | 40876 | 4.20 | ug/L | | 95 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 50307 | 16.11 | ug/L | # | 79 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 16276 | 93.43 | ug/L | | 92 |
| 74) toluene | 12.14 | 92 | 59484 | 4.05 | ug/L | | 95 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 40742 | 4.37 | ug/L | | 94 |
| 76) ethyl methacrylate | 12.32 | 69 | 33784 | 4.36 | ug/L | | 96 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 20648 | 4.20 | ug/L | | 94 |
| 78) 2-hexanone | 12.71 | 58 | 49528 | 16.66 | ug/L | | 94 |
| 79) tetrachloroethene | 12.69 | 166 | 29311 | 3.97 | ug/L | | 91 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 38316 | 3.91 | ug/L | | 98 |
| 81) butyl acetate | 12.79 | 56 | 20094 | 3.96 | ug/L | | 97 |
| 82) dibromochloromethane | 12.96 | 129 | 29545 | 4.15 | ug/L | | 94 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 25754 | 4.27 | ug/L | | 96 |
| 84) n-butyl ether | 13.56 | 57 | 123434 | 4.20 | ug/L | | 91 |
| 85) chlorobenzene | 13.59 | 112 | 66832 | 4.23 | ug/L | | 90 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 25726 | 4.11 | ug/L | | 87 |
| 87) ethylbenzene | 13.66 | 91 | 117611 | 4.18 | ug/L | | 95 |
| 88) m,p-xylene | 13.78 | 106 | 88253 | 8.33 | ug/L | | 94 |
| 89) o-xylene | 14.18 | 91 | 95915 | 4.24 | ug/L | | 93 |

# Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218785.D
Acq On : 31 Jul 2022 7:16 pm
Operator : PrashanS
Sample : IC9511-4
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 14:54:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:52:17 2022
QLast Update : Mon Aug 01 14:54:29 2022
Response via : Initial Calibration

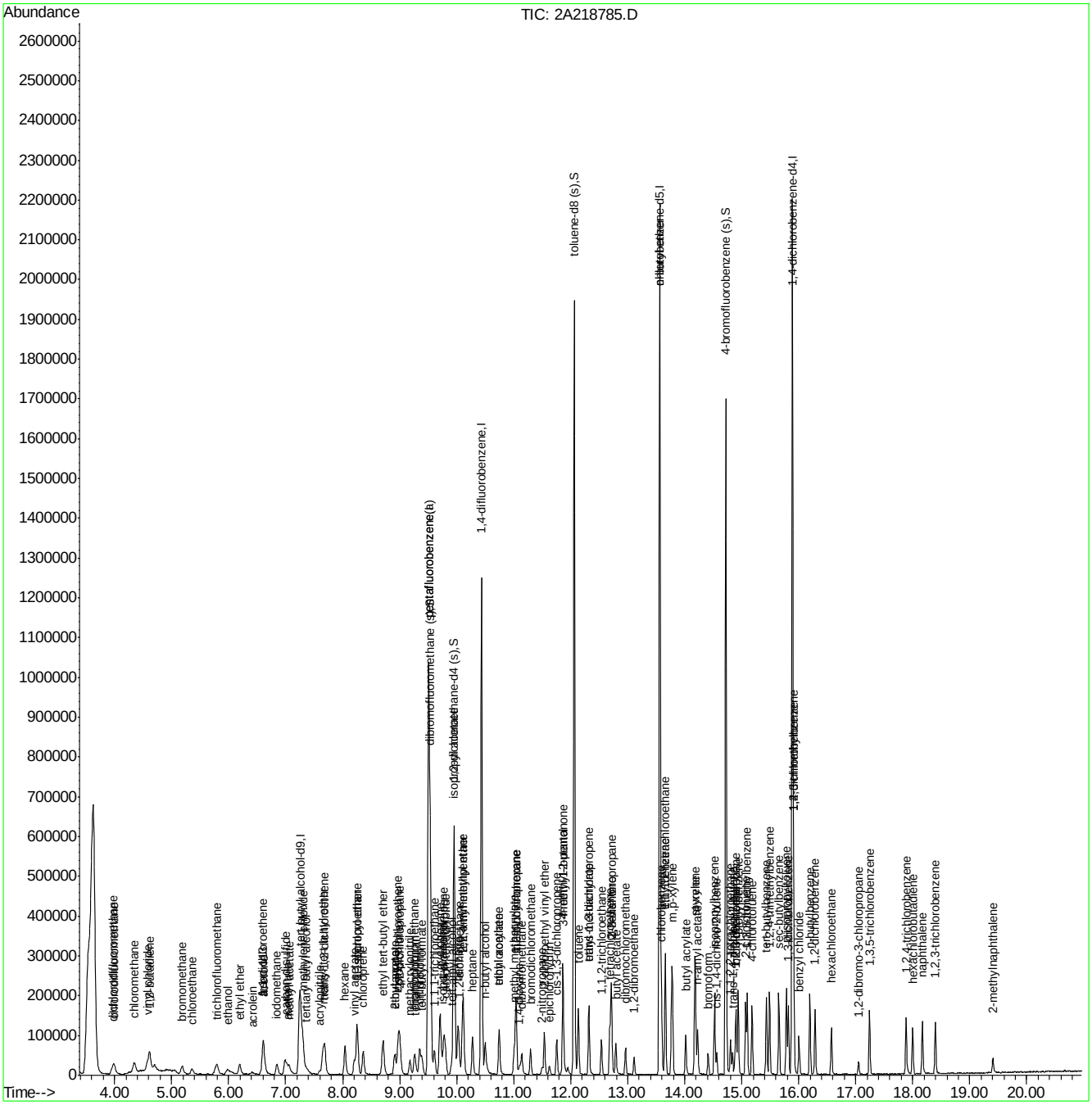
| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 90) styrene | 14.19 | 104 | 71154 | 4.20 | ug/L | | 98 |
| 91) n-amyl acetate | 14.23 | 70 | 17819 | 4.20 | ug/L | | 94 |
| 92) bromoform | 14.41 | 173 | 20992 | 4.19 | ug/L | | 96 |
| 93) butyl acrylate | 14.02 | 55 | 64539 | 4.46 | ug/L | | 96 |
| 94) isopropylbenzene | 14.53 | 105 | 111766 | 4.15 | ug/L | | 96 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 10523 | 4.00 | ug/L | | 97 |
| 98) bromobenzene | 14.90 | 156 | 31569 | 3.86 | ug/L | | 95 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 35136 | 4.15 | ug/L | | 91 |
| 100) trans-1,4-dichloro-2-buten | 14.84 | 53 | 11116 | 4.27 | ug/L | | 84 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 9384 | 4.43 | ug/L | | 81 |
| 102) n-propylbenzene | 14.94 | 91 | 139672 | 4.24 | ug/L | | 92 |
| 103) 2-chlorotoluene | 15.07 | 126 | 28405 | 4.09 | ug/L | # | 84 |
| 104) 4-chlorotoluene | 15.18 | 91 | 87076 | 4.21 | ug/L | | 96 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 93347 | 4.13 | ug/L | | 97 |
| 106) tert-butylbenzene | 15.44 | 119 | 81196 | 4.16 | ug/L | | 89 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 96661 | 4.21 | ug/L | | 92 |
| 108) sec-butylbenzene | 15.66 | 105 | 123540 | 4.22 | ug/L | | 98 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 58501 | 4.05 | ug/L | | 97 |
| 110) p-isopropyltoluene | 15.79 | 119 | 103061 | 4.12 | ug/L | | 96 |
| 111) benzyl chloride | 16.01 | 91 | 55672 | 4.14 | ug/L | | 95 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 97384 | 4.03 | ug/L | | 99 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 60620 | 3.98 | ug/L | | 98 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 57365 | 4.10 | ug/L | | 97 |
| 115) n-butylbenzene | 16.19 | 92 | 53488 | 4.17 | ug/L | | 89 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 6616 | 3.85 | ug/L | | 95 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 45057 | 4.14 | ug/L | | 95 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 38819 | 4.31 | ug/L | | 95 |
| 119) hexachlorobutadiene | 18.00 | 225 | 20451 | 4.45 | ug/L | | 92 |
| 120) naphthalene | 18.17 | 128 | 92151 | 4.25 | ug/L | | 100 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 36433 | 4.30 | ug/L | | 93 |
| 122) hexachloroethane | 16.58 | 201 | 15640 | 4.25 | ug/L | | 93 |
| 123) 2-methylnaphthalene | 19.41 | 142 | 19109 | 1.82 | ug/L | | 94 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218785.D
Acq On : 31 Jul 2022 7:16 pm
Operator : PrashanS
Sample : IC9511-4
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 14:54:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:52:17 2022
QLast Update : Mon Aug 01 14:54:29 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218786.D
Acq On : 31 Jul 2022 7:44 pm
Operator : PrashanS
Sample : IC9511-8
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 14:55:38 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:54:29 2022
QLast Update : Mon Aug 01 14:55:32 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 418813 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.50 | 168 | 706121 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.43 | 114 | 949113 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 908425 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 491314 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.50 | 168 | 704095 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 333336 | 50.06 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.12% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 441213 | 49.98 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.96% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1121126 | 50.43 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.86% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 460961 | 50.69 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.38% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 78246 | 791.97 | ug/L | 97 |
| 3) tertiary butyl alcohol | 7.36 | 59 | 39981 | 38.48 | ug/L | 91 |
| 4) 1,4-dioxane | 11.08 | 88 | 14933 | 219.63 | ug/L | 93 |
| 6) chlorodifluoromethane | 3.99 | 51 | 83330 | 8.52 | ug/L | 100 |
| 7) dichlorodifluoromethane | 3.96 | 85 | 78979 | 8.29 | ug/L | 97 |
| 8) chloromethane | 4.34 | 50 | 97953 | 7.55 | ug/L | 93 |
| 9) vinyl chloride | 4.57 | 62 | 76494 | 7.96 | ug/L | 99 |
| 10) 1,3-butadiene | 4.61 | 54 | 69401 | 7.92 | ug/L | 93 |
| 11) bromomethane | 5.18 | 94 | 42067 | 7.32 | ug/L | 97 |
| 12) chloroethane | 5.35 | 64 | 34672 | 7.77 | ug/L | 90 |
| 13) trichlorofluoromethane | 5.79 | 101 | 85861 | 8.19 | ug/L | 96 |
| 14) ethyl ether | 6.19 | 74 | 26723 | 7.90 | ug/L | 89 |
| 15) acrolein | 6.41 | 56 | 12176 | 8.27 | ug/L | 81 |
| 16) freon 113 | 6.61 | 151 | 40048 | 7.74 | ug/L | 91 |
| 17) 1,1-dichloroethene | 6.60 | 96 | 43186 | 8.02 | ug/L | 97 |
| 18) acetone | 6.61 | 43 | 87554 | 31.21 | ug/L | 93 |
| 19) acetonitrile | 7.03 | 41 | 89184 | 78.36 | ug/L | 94 |
| 20) iodomethane | 6.85 | 142 | 84732 | 8.14 | ug/L | 97 |
| 21) carbon disulfide | 6.98 | 76 | 144162 | 8.07 | ug/L | 98 |
| 22) methylene chloride | 7.30 | 84 | 48712 | 7.49 | ug/L | 98 |
| 23) methyl acetate | 7.06 | 43 | 57923 | 8.63 | ug/L | 92 |
| 24) methyl tert butyl ether | 7.66 | 73 | 151461 | 7.85 | ug/L | 95 |
| 25) trans-1,2-dichloroethene | 7.68 | 96 | 47146 | 7.63 | ug/L | 83 |
| 26) hexane | 8.04 | 57 | 86226 | 7.96 | ug/L | 97 |
| 27) di-isopropyl ether | 8.25 | 45 | 216275 | 8.16 | ug/L | 93 |
| 28) ethyl tert-butyl ether | 8.70 | 59 | 184885 | 8.01 | ug/L | 100 |
| 29) 2-butanone | 8.90 | 72 | 22983 | 32.16 | ug/L # | 78 |
| 30) 1,1-dichloroethane | 8.25 | 63 | 95656 | 8.07 | ug/L | 99 |
| 31) chloroprene | 8.36 | 53 | 93907 | 8.56 | ug/L | 95 |
| 32) acrylonitrile | 7.59 | 53 | 24198 | 8.35 | ug/L | 92 |
| 33) vinyl acetate | 8.20 | 86 | 9718 | 9.79 | ug/L # | 50 |
| 34) ethyl acetate | 8.93 | 45 | 11952 | 9.22 | ug/L | 92 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218786.D
Acq On : 31 Jul 2022 7:44 pm
Operator : PrashanS
Sample : IC9511-8
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 14:55:38 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:54:29 2022
QLast Update : Mon Aug 01 14:55:32 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 9.00 | 77 | 76411 | 7.96 | ug/L | | 96 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 54158 | 8.11 | ug/L | | 92 |
| 37) propionitrile | 8.98 | 54 | 91959 | 82.16 | ug/L | | 96 |
| 38) bromochloromethane | 9.26 | 130 | 36441 | 8.36 | ug/L | | 94 |
| 39) tetrahydrofuran | 9.28 | 42 | 24369 | 7.30 | ug/L | | 90 |
| 40) chloroform | 9.35 | 83 | 95963 | 7.46 | ug/L | | 99 |
| 41) tert-butyl formate | 9.38 | 59 | 47036 | 8.35 | ug/L | | 91 |
| 42) isobutyl alcohol | 9.75 | 43 | 38458 | 81.88 | ug/L | | 89 |
| 44) methacrylonitrile | 9.18 | 67 | 21923 | 7.96 | ug/L | | 86 |
| 45) 1,1,1-trichloroethane | 9.60 | 97 | 85157 | 7.98 | ug/L | | 99 |
| 46) cyclohexane | 9.71 | 84 | 70715 | 8.05 | ug/L | | 85 |
| 47) 1,1-dichloropropene | 9.77 | 75 | 69956 | 8.10 | ug/L | | 94 |
| 48) tert-amyl alcohol | 9.90 | 73 | 18623 | 38.81 | ug/L | # | 73 |
| 49) carbon tetrachloride | 9.80 | 117 | 79510 | 8.29 | ug/L | | 96 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 225532 | 8.28 | ug/L | | 98 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 159347 | 7.89 | ug/L | | 94 |
| 54) n-butyl alcohol | 10.50 | 56 | 95119 | 392.88 | ug/L | | 98 |
| 55) benzene | 10.02 | 78 | 191197 | 8.33 | ug/L | | 96 |
| 56) heptane | 10.28 | 57 | 45598 | 8.41 | ug/L | | 96 |
| 57) isopropyl acetate | 9.93 | 87 | 11876 | 8.57 | ug/L | | 96 |
| 58) 1,2-dichloroethane | 10.04 | 62 | 86511 | 7.85 | ug/L | | 99 |
| 59) trichloroethene | 10.74 | 95 | 53291 | 8.15 | ug/L | | 97 |
| 60) ethyl acrylate | 10.74 | 55 | 84568 | 8.42 | ug/L | | 97 |
| 61) 2-nitropropane | 11.50 | 41 | 21429 | 8.18 | ug/L | | 93 |
| 62) 2-chloroethyl vinyl ether | 11.54 | 63 | 94301 | 50.23 | ug/L | | 98 |
| 63) methyl methacrylate | 11.00 | 100 | 13754 | 9.07 | ug/L | # | 85 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 56303 | 8.35 | ug/L | | 95 |
| 65) methylcyclohexane | 11.04 | 83 | 86472 | 8.11 | ug/L | | 99 |
| 66) dibromomethane | 11.14 | 93 | 34617 | 7.69 | ug/L | | 91 |
| 67) bromodichloromethane | 11.29 | 83 | 75602 | 8.23 | ug/L | | 97 |
| 68) epichlorohydrin | 11.62 | 57 | 32644 | 42.30 | ug/L | | 98 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 83141 | 8.40 | ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 104298 | 33.07 | ug/L | | 92 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 31962 | 175.95 | ug/L | | 86 |
| 74) toluene | 12.14 | 92 | 118849 | 8.05 | ug/L | | 93 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 81969 | 8.62 | ug/L | | 98 |
| 76) ethyl methacrylate | 12.32 | 69 | 70711 | 8.93 | ug/L | | 96 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 41515 | 8.34 | ug/L | | 95 |
| 78) 2-hexanone | 12.71 | 58 | 100140 | 33.29 | ug/L | | 97 |
| 79) tetrachloroethene | 12.68 | 166 | 58808 | 7.95 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 78063 | 7.97 | ug/L | | 97 |
| 81) butyl acetate | 12.79 | 56 | 42776 | 8.42 | ug/L | # | 83 |
| 82) dibromochloromethane | 12.96 | 129 | 59836 | 8.33 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 51940 | 8.49 | ug/L | | 99 |
| 84) n-butyl ether | 13.56 | 57 | 249852 | 8.41 | ug/L | | 94 |
| 85) chlorobenzene | 13.59 | 112 | 135205 | 8.44 | ug/L | | 94 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 53243 | 8.43 | ug/L | | 95 |
| 87) ethylbenzene | 13.66 | 91 | 234579 | 8.25 | ug/L | | 94 |
| 88) m,p-xylene | 13.78 | 106 | 178223 | 16.65 | ug/L | | 89 |
| 89) o-xylene | 14.18 | 91 | 189640 | 8.27 | ug/L | | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218786.D
Acq On : 31 Jul 2022 7:44 pm
Operator : PrashanS
Sample : IC9511-8
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 14:55:38 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:54:29 2022
QLast Update : Mon Aug 01 14:55:32 2022
Response via : Initial Calibration

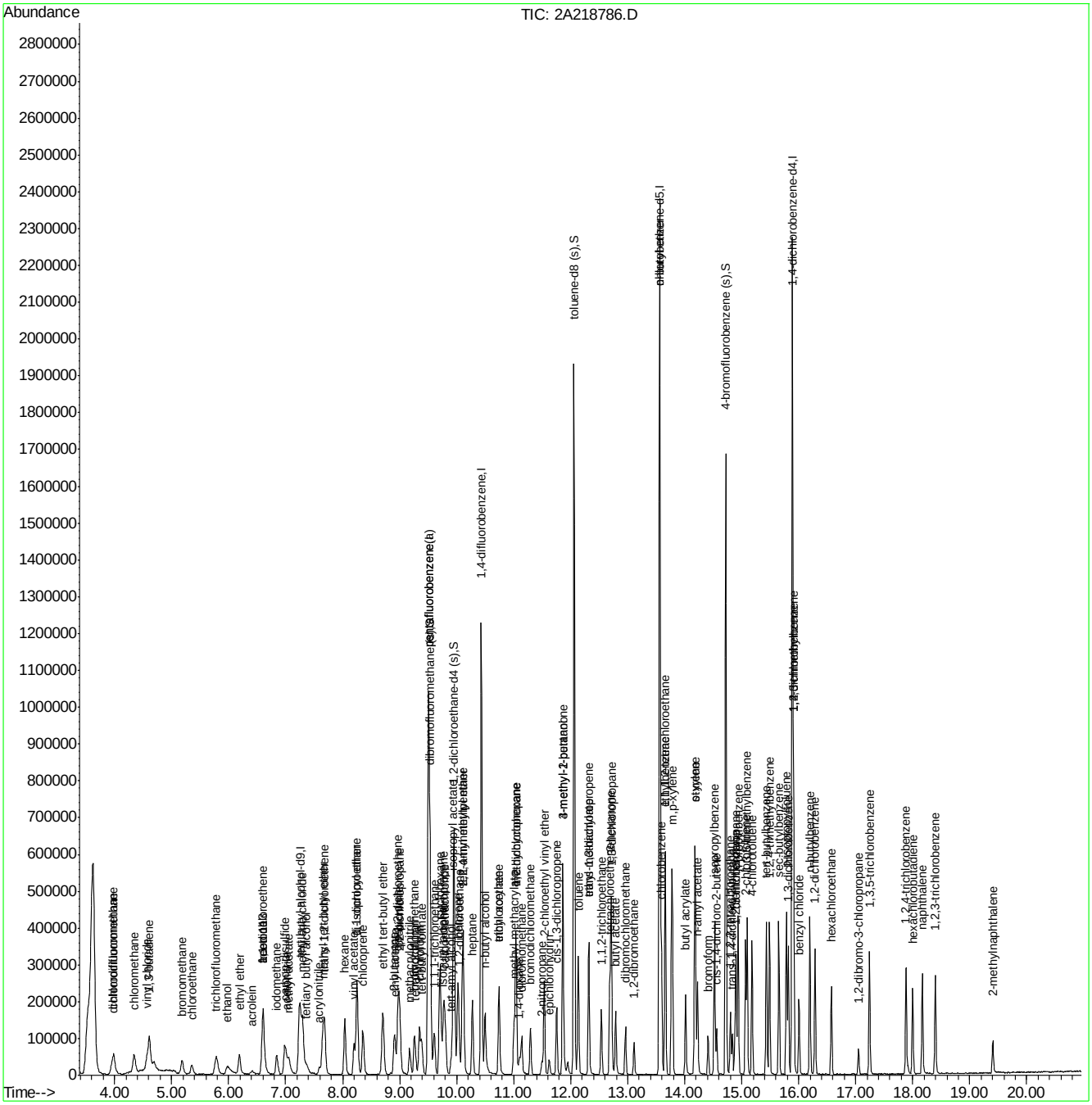
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 90) styrene | 14.19 | 104 | 149627 | 8.74 | ug/L | 97 |
| 91) n-amyl acetate | 14.22 | 70 | 37199 | 8.66 | ug/L | 97 |
| 92) bromoform | 14.41 | 173 | 42397 | 8.37 | ug/L | 97 |
| 93) butyl acrylate | 14.01 | 55 | 132813 | 8.94 | ug/L | 97 |
| 94) isopropylbenzene | 14.53 | 105 | 231604 | 8.51 | ug/L | 97 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 22743 | 8.62 | ug/L | 89 |
| 98) bromobenzene | 14.90 | 156 | 65047 | 8.03 | ug/L | 94 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 69378 | 8.19 | ug/L | 97 |
| 100) trans-1,4-dichloro-2-buten | 14.83 | 53 | 22795 | 8.66 | ug/L | 97 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 17489 | 8.13 | ug/L | 95 |
| 102) n-propylbenzene | 14.94 | 91 | 281415 | 8.51 | ug/L | 96 |
| 103) 2-chlorotoluene | 15.07 | 126 | 57655 | 8.31 | ug/L | 96 |
| 104) 4-chlorotoluene | 15.18 | 91 | 172721 | 8.31 | ug/L | 97 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 192735 | 8.53 | ug/L | 99 |
| 106) tert-butylbenzene | 15.43 | 119 | 163544 | 8.37 | ug/L | 98 |
| 107) 1,2,4-trimethylbenzene | 15.48 | 105 | 196793 | 8.55 | ug/L | 94 |
| 108) sec-butylbenzene | 15.65 | 105 | 249910 | 8.51 | ug/L | 97 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 118333 | 8.22 | ug/L | 94 |
| 110) p-isopropyltoluene | 15.79 | 119 | 210696 | 8.43 | ug/L | 95 |
| 111) benzyl chloride | 16.01 | 91 | 117582 | 8.73 | ug/L | 96 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 196777 | 8.17 | ug/L | 95 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 121274 | 8.01 | ug/L | 97 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 117887 | 8.44 | ug/L | 98 |
| 115) n-butylbenzene | 16.19 | 92 | 111412 | 8.67 | ug/L | 88 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 16157 | 9.51 | ug/L | 86 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 90238 | 8.29 | ug/L | 97 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 78595 | 8.66 | ug/L | 99 |
| 119) hexachlorobutadiene | 18.00 | 225 | 41561 | 8.92 | ug/L | 95 |
| 120) naphthalene | 18.17 | 128 | 190936 | 8.76 | ug/L | 100 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 73567 | 8.63 | ug/L | 99 |
| 122) hexachloroethane | 16.58 | 201 | 35209 | 9.52 | ug/L | 94 |
| 123) 2-methylnaphthalene | 19.41 | 142 | 42684 | 4.21 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218786.D
Acq On : 31 Jul 2022 7:44 pm
Operator : PrashanS
Sample : IC9511-8
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 14:55:38 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:54:29 2022
QLast Update : Mon Aug 01 14:55:32 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218787.D
Acq On : 31 Jul 2022 8:13 pm
Operator : PrashanS
Sample : IC9511-20
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 14:56:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:55:32 2022
QLast Update : Mon Aug 01 14:56:08 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 428714 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 726573 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 975008 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 931654 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 513520 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 726573 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 341852 | 49.88 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.76% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 453496 | 50.01 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.02% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1150863 | 50.41 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.82% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 474712 | 49.84 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.68% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 201148 | 1992.92 | ug/L | 91 |
| 3) tertiary butyl alcohol | 7.37 | 59 | 99925 | 94.67 | ug/L | 95 |
| 4) 1,4-dioxane | 11.08 | 88 | 36289 | 511.36 | ug/L | 91 |
| 6) chlorodifluoromethane | 4.00 | 51 | 189834 | 18.66 | ug/L | 98 |
| 7) dichlorodifluoromethane | 3.97 | 85 | 194905 | 19.76 | ug/L | 100 |
| 8) chloromethane | 4.35 | 50 | 236025 | 17.84 | ug/L | 97 |
| 9) vinyl chloride | 4.58 | 62 | 186333 | 18.86 | ug/L | 96 |
| 10) 1,3-butadiene | 4.62 | 54 | 165284 | 18.35 | ug/L | 96 |
| 11) bromomethane | 5.19 | 94 | 105060 | 18.03 | ug/L | 99 |
| 12) chloroethane | 5.36 | 64 | 88757 | 19.43 | ug/L | 94 |
| 13) trichlorofluoromethane | 5.80 | 101 | 216232 | 19.99 | ug/L | 95 |
| 14) ethyl ether | 6.19 | 74 | 66845 | 19.24 | ug/L | 94 |
| 15) acrolein | 6.41 | 56 | 28595 | 18.76 | ug/L | 91 |
| 16) freon 113 | 6.62 | 151 | 95865 | 18.11 | ug/L | 96 |
| 17) 1,1-dichloroethene | 6.61 | 96 | 102333 | 18.47 | ug/L | 94 |
| 18) acetone | 6.61 | 43 | 209498 | 72.88 | ug/L | 99 |
| 19) acetonitrile | 7.03 | 41 | 220882 | 189.26 | ug/L | 99 |
| 20) iodomethane | 6.85 | 142 | 201181 | 18.73 | ug/L | 98 |
| 21) carbon disulfide | 6.99 | 76 | 339656 | 18.45 | ug/L | 99 |
| 22) methylene chloride | 7.31 | 84 | 116736 | 17.63 | ug/L | 97 |
| 23) methyl acetate | 7.06 | 43 | 135908 | 19.43 | ug/L | 97 |
| 24) methyl tert butyl ether | 7.66 | 73 | 363194 | 18.35 | ug/L | 97 |
| 25) trans-1,2-dichloroethene | 7.69 | 96 | 113785 | 18.03 | ug/L | 94 |
| 26) hexane | 8.04 | 57 | 208222 | 18.69 | ug/L | 98 |
| 27) di-isopropyl ether | 8.25 | 45 | 519192 | 18.98 | ug/L | 98 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 446526 | 18.80 | ug/L | 99 |
| 29) 2-butanone | 8.90 | 72 | 58559 | 79.56 | ug/L # | 91 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 226944 | 18.59 | ug/L | 98 |
| 31) chloroprene | 8.36 | 53 | 223915 | 19.63 | ug/L | 99 |
| 32) acrylonitrile | 7.59 | 53 | 61227 | 20.36 | ug/L | 90 |
| 33) vinyl acetate | 8.20 | 86 | 21910 | 20.53 | ug/L # | 83 |
| 34) ethyl acetate | 8.93 | 45 | 26784 | 19.49 | ug/L | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218787.D
Acq On : 31 Jul 2022 8:13 pm
Operator : PrashanS
Sample : IC9511-20
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 14:56:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:55:32 2022
QLast Update : Mon Aug 01 14:56:08 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 9.00 | 77 | 173614 | 17.59 | ug/L | | 95 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 124837 | 18.13 | ug/L | | 94 |
| 37) propionitrile | 8.98 | 54 | 224569 | 194.11 | ug/L | | 94 |
| 38) bromochloromethane | 9.26 | 130 | 86308 | 19.10 | ug/L | | 95 |
| 39) tetrahydrofuran | 9.28 | 42 | 57263 | 16.98 | ug/L | | 99 |
| 40) chloroform | 9.35 | 83 | 225738 | 17.25 | ug/L | | 99 |
| 41) tert-butyl formate | 9.39 | 59 | 120638 | 20.68 | ug/L | | 96 |
| 42) isobutyl alcohol | 9.75 | 43 | 88672 | 182.61 | ug/L | | 93 |
| 44) methacrylonitrile | 9.18 | 67 | 55120 | 19.47 | ug/L | | 94 |
| 45) 1,1,1-trichloroethane | 9.60 | 97 | 208447 | 18.98 | ug/L | | 95 |
| 46) cyclohexane | 9.71 | 84 | 175098 | 19.36 | ug/L | # | 82 |
| 47) 1,1-dichloropropene | 9.78 | 75 | 163733 | 18.40 | ug/L | | 97 |
| 48) tert-amyl alcohol | 9.91 | 73 | 45293 | 92.29 | ug/L | | 89 |
| 49) carbon tetrachloride | 9.80 | 117 | 183972 | 18.54 | ug/L | | 98 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 541401 | 19.26 | ug/L | | 98 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 383899 | 18.54 | ug/L | | 99 |
| 54) n-butyl alcohol | 10.50 | 56 | 254149 | 1024.91 | ug/L | | 98 |
| 55) benzene | 10.02 | 78 | 455030 | 19.18 | ug/L | | 97 |
| 56) heptane | 10.28 | 57 | 110156 | 19.64 | ug/L | | 97 |
| 57) isopropyl acetate | 9.94 | 87 | 27594 | 19.10 | ug/L | # | 85 |
| 58) 1,2-dichloroethane | 10.04 | 62 | 203567 | 18.03 | ug/L | | 99 |
| 59) trichloroethene | 10.74 | 95 | 125212 | 18.58 | ug/L | | 96 |
| 60) ethyl acrylate | 10.74 | 55 | 211396 | 20.30 | ug/L | | 97 |
| 61) 2-nitropropane | 11.50 | 41 | 53188 | 19.68 | ug/L | | 98 |
| 62) 2-chloroethyl vinyl ether | 11.53 | 63 | 271919 | 135.24 | ug/L | | 96 |
| 63) methyl methacrylate | 11.01 | 100 | 32581 | 20.36 | ug/L | | 96 |
| 64) 1,2-dichloropropane | 11.04 | 63 | 130263 | 18.68 | ug/L | | 100 |
| 65) methylcyclohexane | 11.04 | 83 | 210406 | 19.17 | ug/L | | 98 |
| 66) dibromomethane | 11.14 | 93 | 85263 | 18.53 | ug/L | | 89 |
| 67) bromodichloromethane | 11.30 | 83 | 177724 | 18.76 | ug/L | | 97 |
| 68) epichlorohydrin | 11.62 | 57 | 81786 | 101.98 | ug/L | | 96 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 204747 | 19.99 | ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 252997 | 77.71 | ug/L | | 89 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 81730 | 430.82 | ug/L | | 96 |
| 74) toluene | 12.14 | 92 | 287560 | 18.98 | ug/L | | 96 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 194204 | 19.70 | ug/L | | 98 |
| 76) ethyl methacrylate | 12.32 | 69 | 176399 | 21.31 | ug/L | | 97 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 100998 | 19.67 | ug/L | | 96 |
| 78) 2-hexanone | 12.71 | 58 | 248821 | 80.12 | ug/L | | 96 |
| 79) tetrachloroethene | 12.68 | 166 | 137905 | 18.19 | ug/L | | 96 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 182704 | 18.20 | ug/L | | 98 |
| 81) butyl acetate | 12.79 | 56 | 108533 | 20.65 | ug/L | | 92 |
| 82) dibromochloromethane | 12.96 | 129 | 147361 | 19.89 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 123583 | 19.53 | ug/L | | 98 |
| 84) n-butyl ether | 13.56 | 57 | 592133 | 19.30 | ug/L | | 99 |
| 85) chlorobenzene | 13.59 | 112 | 325014 | 19.64 | ug/L | | 97 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 126686 | 19.41 | ug/L | | 93 |
| 87) ethylbenzene | 13.66 | 91 | 549381 | 18.76 | ug/L | | 96 |
| 88) m,p-xylene | 13.78 | 106 | 425017 | 38.50 | ug/L | | 92 |
| 89) o-xylene | 14.17 | 91 | 445865 | 18.87 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218787.D
Acq On : 31 Jul 2022 8:13 pm
Operator : PrashanS
Sample : IC9511-20
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 14:56:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:55:32 2022
QLast Update : Mon Aug 01 14:56:08 2022
Response via : Initial Calibration

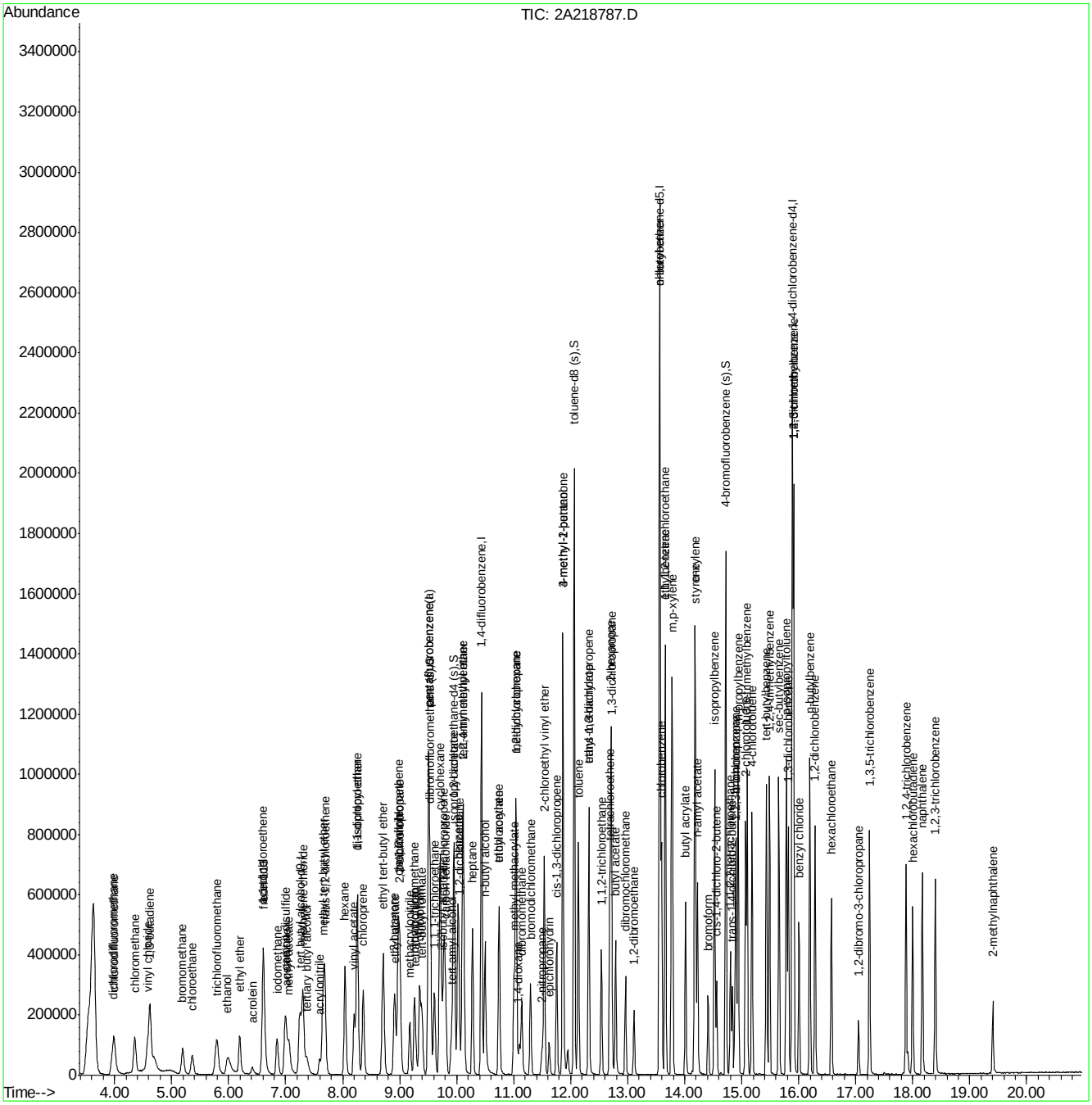
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 90) styrene | 14.19 | 104 | 358328 | 20.13 | ug/L | 94 |
| 91) n-amyl acetate | 14.22 | 70 | 93122 | 20.84 | ug/L | 90 |
| 92) bromoform | 14.41 | 173 | 106368 | 20.33 | ug/L | 97 |
| 93) butyl acrylate | 14.01 | 55 | 332424 | 21.40 | ug/L | 100 |
| 94) isopropylbenzene | 14.53 | 105 | 551439 | 19.58 | ug/L | 98 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 60771 | 22.18 | ug/L | 99 |
| 98) bromobenzene | 14.90 | 156 | 154205 | 18.21 | ug/L | 97 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 172140 | 19.37 | ug/L | 99 |
| 100) trans-1,4-dichloro-2-buten | 14.83 | 53 | 58442 | 20.90 | ug/L | 98 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 43860 | 19.45 | ug/L | 95 |
| 102) n-propylbenzene | 14.94 | 91 | 664796 | 19.06 | ug/L | 96 |
| 103) 2-chlorotoluene | 15.07 | 126 | 137734 | 18.89 | ug/L | 90 |
| 104) 4-chlorotoluene | 15.18 | 91 | 415037 | 19.01 | ug/L | 96 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 453630 | 19.04 | ug/L | 100 |
| 106) tert-butylbenzene | 15.43 | 119 | 385273 | 18.75 | ug/L | 99 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 466785 | 19.21 | ug/L | 96 |
| 108) sec-butylbenzene | 15.65 | 105 | 593422 | 19.16 | ug/L | 98 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 286521 | 18.96 | ug/L | 96 |
| 110) p-isopropyltoluene | 15.79 | 119 | 503064 | 19.11 | ug/L | 95 |
| 111) benzyl chloride | 16.01 | 91 | 292416 | 20.47 | ug/L | 97 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 472645 | 18.72 | ug/L | 96 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 287440 | 18.15 | ug/L | 97 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 283693 | 19.27 | ug/L | 100 |
| 115) n-butylbenzene | 16.19 | 92 | 270266 | 19.88 | ug/L | 94 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 38568 | 21.06 | ug/L | 96 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 218557 | 19.11 | ug/L | 99 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 197555 | 20.59 | ug/L | 99 |
| 119) hexachlorobutadiene | 18.00 | 225 | 99114 | 20.03 | ug/L | 91 |
| 120) naphthalene | 18.17 | 128 | 482323 | 20.89 | ug/L | 99 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 184915 | 20.52 | ug/L | 96 |
| 122) hexachloroethane | 16.58 | 201 | 85243 | 21.47 | ug/L | 92 |
| 123) 2-methylnaphthalene | 19.41 | 142 | 115453 | 10.76 | ug/L | 96 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218787.D
Acq On : 31 Jul 2022 8:13 pm
Operator : PrashanS
Sample : IC9511-20
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 14:56:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:55:32 2022
QLast Update : Mon Aug 01 14:56:08 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218788.D
Acq On : 31 Jul 2022 8:41 pm
Operator : PrashanS
Sample : ICC9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 14:30:56 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:25:46 2022
QLast Update : Mon Aug 01 14:30:00 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 430035 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 739573 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 990901 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 951995 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 521245 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 739208 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 351605 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 461345 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.00% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1170934 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 478753 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 521004 | 5000.00 | ug/L | 100 |
| 3) tertiary butyl alcohol | 7.36 | 59 | 261604 | 250.00 | ug/L | 100 |
| 4) 1,4-dioxane | 11.08 | 88 | 98789 | 1250.00 | ug/L | 100 |
| 6) chlorodifluoromethane | 4.00 | 51 | 491666 | 50.00 | ug/L | 100 |
| 7) dichlorodifluoromethane | 3.97 | 85 | 502619 | 50.01 | ug/L | 100 |
| 8) chloromethane | 4.35 | 50 | 606131 | 50.00 | ug/L | 100 |
| 9) vinyl chloride | 4.57 | 62 | 486994 | 50.00 | ug/L | 100 |
| 10) 1,3-butadiene | 4.62 | 54 | 406614 | 50.00 | ug/L | 100 |
| 11) bromomethane | 5.19 | 94 | 278236 | 50.00 | ug/L | 100 |
| 12) chloroethane | 5.36 | 64 | 233276 | 50.00 | ug/L | 100 |
| 13) trichlorofluoromethane | 5.79 | 101 | 561174 | 50.00 | ug/L | 100 |
| 14) ethyl ether | 6.19 | 74 | 170540 | 50.00 | ug/L | 100 |
| 15) acrolein | 6.41 | 56 | 81364 | 50.00 | ug/L | 100 |
| 16) freon 113 | 6.61 | 151 | 250484 | 50.00 | ug/L | 100 |
| 17) 1,1-dichloroethene | 6.60 | 96 | 264084 | 50.00 | ug/L | 100 |
| 18) acetone | 6.61 | 43 | 535473 | 200.00 | ug/L | 100 |
| 19) acetonitrile | 7.01 | 41 | 569811 | 500.00 | ug/L | 100 |
| 20) iodomethane | 6.85 | 142 | 518681 | 50.00 | ug/L | 100 |
| 21) carbon disulfide | 6.98 | 76 | 882965 | 49.93 | ug/L | 100 |
| 22) methylene chloride | 7.30 | 84 | 304836 | 50.00 | ug/L | 100 |
| 23) methyl acetate | 7.06 | 43 | 352148 | 50.00 | ug/L | 100 |
| 24) methyl tert butyl ether | 7.66 | 73 | 929573 | 50.00 | ug/L | 100 |
| 25) trans-1,2-dichloroethene | 7.68 | 96 | 294733 | 50.00 | ug/L | 100 |
| 26) hexane | 8.04 | 57 | 523892 | 50.00 | ug/L | 100 |
| 27) di-isopropyl ether | 8.25 | 45 | 1323811 | 50.00 | ug/L | 100 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 1155862 | 50.00 | ug/L | 100 |
| 29) 2-butanone | 8.90 | 72 | 156008 | 200.00 | ug/L | 100 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 585886 | 50.00 | ug/L | 100 |
| 31) chloroprene | 8.36 | 53 | 580070 | 50.00 | ug/L | 100 |
| 32) acrylonitrile | 7.59 | 53 | 160857 | 50.00 | ug/L | 100 |
| 33) vinyl acetate | 8.20 | 86 | 59412 | 50.00 | ug/L | 100 |
| 34) ethyl acetate | 8.92 | 45 | 72024 | 50.00 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218788.D
Acq On : 31 Jul 2022 8:41 pm
Operator : PrashanS
Sample : ICC9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 14:30:56 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:25:46 2022
QLast Update : Mon Aug 01 14:30:00 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 9.00 | 77 | 461257 | 50.00 | ug/L | 100 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 328619 | 50.00 | ug/L | 100 |
| 37) propionitrile | 8.98 | 54 | 582952 | 500.00 | ug/L | 100 |
| 38) bromochloromethane | 9.26 | 130 | 227376 | 50.00 | ug/L | 100 |
| 39) tetrahydrofuran | 9.28 | 42 | 143509 | 50.00 | ug/L | 100 |
| 40) chloroform | 9.35 | 83 | 584987 | 50.00 | ug/L | 100 |
| 41) tert-butyl formate | 9.38 | 59 | 324676 | 50.00 | ug/L | 100 |
| 42) isobutyl alcohol | 9.75 | 43 | 255412 | 500.00 | ug/L | 100 |
| 44) methacrylonitrile | 9.17 | 67 | 144788 | 50.00 | ug/L | 100 |
| 45) 1,1,1-trichloroethane | 9.61 | 97 | 538312 | 50.00 | ug/L | 100 |
| 46) cyclohexane | 9.72 | 84 | 458447 | 50.00 | ug/L | 100 |
| 47) 1,1-dichloropropene | 9.78 | 75 | 422042 | 50.00 | ug/L | 100 |
| 48) tert-amyl alcohol | 9.91 | 73 | 111514 | 250.00 | ug/L | 100 |
| 49) carbon tetrachloride | 9.80 | 117 | 486009 | 50.00 | ug/L | 100 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 1341381 | 50.00 | ug/L | 100 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 985231 | 50.00 | ug/L | 100 |
| 54) n-butyl alcohol | 10.50 | 56 | 663849 | 2500.00 | ug/L | 100 |
| 55) benzene | 10.02 | 78 | 1158667 | 50.00 | ug/L | 100 |
| 56) heptane | 10.28 | 57 | 285626 | 50.00 | ug/L | 100 |
| 57) isopropyl acetate | 9.94 | 87 | 70864 | 50.00 | ug/L | 100 |
| 58) 1,2-dichloroethane | 10.04 | 62 | 520373 | 50.00 | ug/L | 100 |
| 59) trichloroethene | 10.74 | 95 | 329122 | 50.00 | ug/L | 100 |
| 60) ethyl acrylate | 10.74 | 55 | 549980 | 50.00 | ug/L | 100 |
| 61) 2-nitropropane | 11.50 | 41 | 144509 | 50.00 | ug/L | 100 |
| 62) 2-chloroethyl vinyl ether | 11.53 | 63 | 788930 | 250.00 | ug/L | 100 |
| 63) methyl methacrylate | 11.01 | 100 | 87895 | 50.00 | ug/L | 100 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 341196 | 50.00 | ug/L | 100 |
| 65) methylcyclohexane | 11.04 | 83 | 535262 | 50.00 | ug/L | 100 |
| 66) dibromomethane | 11.14 | 93 | 216000 | 50.00 | ug/L | 100 |
| 67) bromodichloromethane | 11.30 | 83 | 466331 | 50.00 | ug/L | 100 |
| 68) epichlorohydrin | 11.62 | 57 | 216041 | 250.00 | ug/L | 100 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 528123 | 50.00 | ug/L | 100 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 660579 | 200.00 | ug/L | 100 |
| 71) 3-methyl-1-butanol | 11.86 | 70 | 214542 | 1000.00 | ug/L | 100 |
| 74) toluene | 12.14 | 92 | 735285 | 50.00 | ug/L | 100 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 511262 | 50.00 | ug/L | 100 |
| 76) ethyl methacrylate | 12.31 | 69 | 450593 | 50.00 | ug/L | 100 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 258998 | 50.00 | ug/L | 100 |
| 78) 2-hexanone | 12.71 | 58 | 640849 | 200.00 | ug/L | 100 |
| 79) tetrachloroethene | 12.68 | 166 | 358070 | 50.00 | ug/L | 100 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 478006 | 50.00 | ug/L | 100 |
| 81) butyl acetate | 12.79 | 56 | 276449 | 50.00 | ug/L | 100 |
| 82) dibromochloromethane | 12.96 | 129 | 385243 | 50.00 | ug/L | 100 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 324612 | 50.00 | ug/L | 100 |
| 84) n-butyl ether | 13.56 | 57 | 1493266 | 50.00 | ug/L | 100 |
| 85) chlorobenzene | 13.59 | 112 | 817274 | 50.00 | ug/L | 100 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 328374 | 50.00 | ug/L | 100 |
| 87) ethylbenzene | 13.66 | 91 | 1374498 | 50.00 | ug/L | 100 |
| 88) m,p-xylene | 13.78 | 106 | 1084298 | 100.00 | ug/L | 100 |
| 89) o-xylene | 14.18 | 91 | 1131192 | 50.00 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218788.D
Acq On : 31 Jul 2022 8:41 pm
Operator : PrashanS
Sample : ICC9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 14:30:56 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:25:46 2022
QLast Update : Mon Aug 01 14:30:00 2022
Response via : Initial Calibration

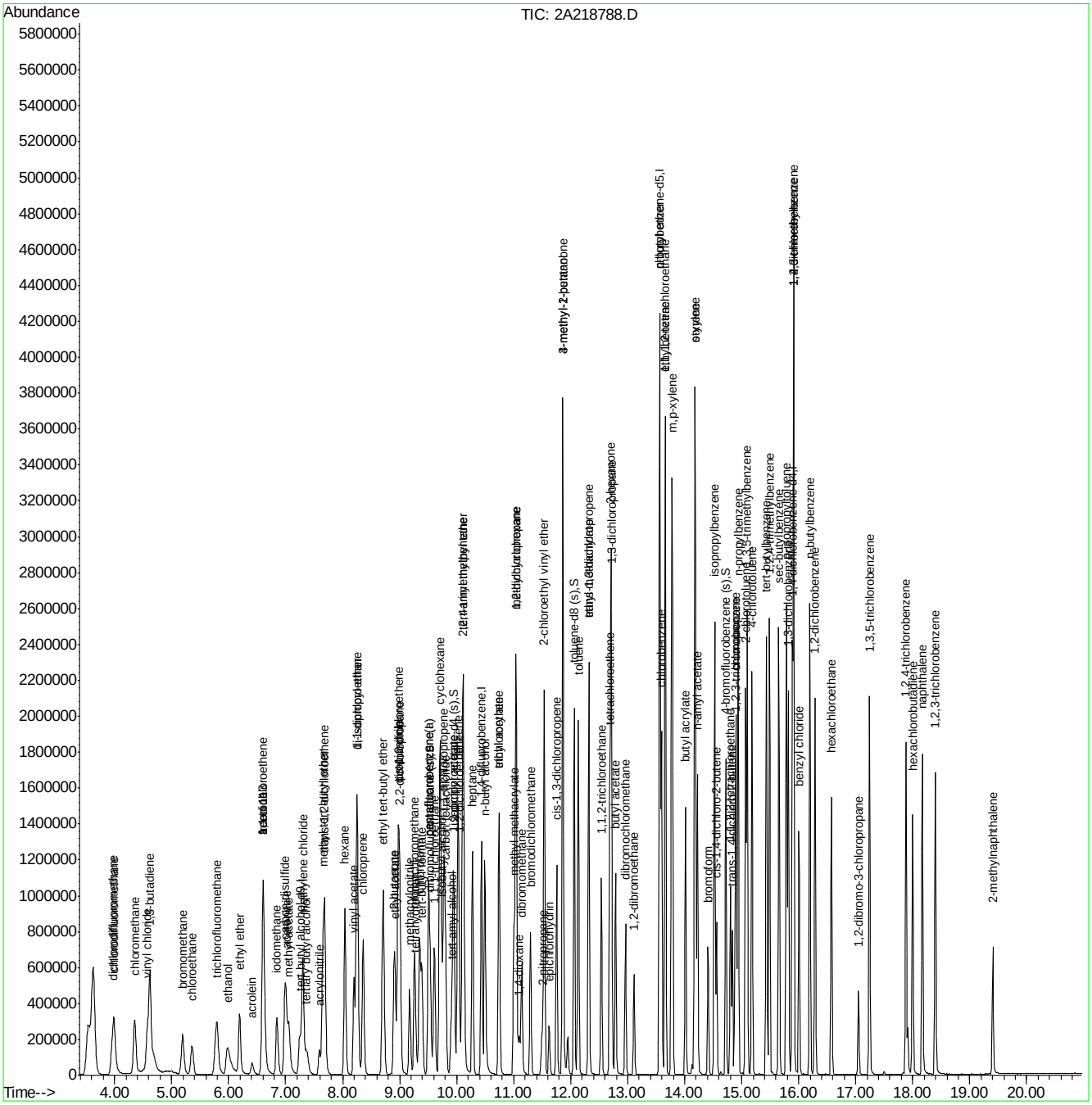
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 90) styrene | 14.19 | 104 | 918466 | 50.00 | ug/L | 100 |
| 91) n-amyl acetate | 14.22 | 70 | 245352 | 50.00 | ug/L | 100 |
| 92) bromoform | 14.41 | 173 | 292506 | 50.00 | ug/L | 100 |
| 93) butyl acrylate | 14.01 | 55 | 852524 | 50.00 | ug/L | 100 |
| 94) isopropylbenzene | 14.53 | 105 | 1382305 | 50.00 | ug/L | 100 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 166175 | 50.00 | ug/L | 100 |
| 98) bromobenzene | 14.90 | 156 | 395208 | 50.00 | ug/L | 100 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 435980 | 50.00 | ug/L | 100 |
| 100) trans-1,4-dichloro-2-buten | 14.83 | 53 | 153920 | 50.00 | ug/L | 100 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 111981 | 50.00 | ug/L | 100 |
| 102) n-propylbenzene | 14.94 | 91 | 1637606 | 50.00 | ug/L | 100 |
| 103) 2-chlorotoluene | 15.07 | 126 | 357774 | 50.00 | ug/L | 100 |
| 104) 4-chlorotoluene | 15.18 | 91 | 1028368 | 50.00 | ug/L | 100 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 1151685 | 50.00 | ug/L | 100 |
| 106) tert-butylbenzene | 15.43 | 119 | 994736 | 50.00 | ug/L | 100 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 1172131 | 50.00 | ug/L | 100 |
| 108) sec-butylbenzene | 15.66 | 105 | 1493082 | 50.00 | ug/L | 100 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 722902 | 50.00 | ug/L | 100 |
| 110) p-isopropyltoluene | 15.79 | 119 | 1266530 | 50.00 | ug/L | 100 |
| 111) benzyl chloride | 16.01 | 91 | 779733 | 49.94 | ug/L | 100 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 1191537 | 50.00 | ug/L | 100 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 739764 | 50.00 | ug/L | 100 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 721435 | 50.00 | ug/L | 100 |
| 115) n-butylbenzene | 16.19 | 92 | 692266 | 50.00 | ug/L | 100 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 103021 | 50.00 | ug/L | 100 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 570163 | 50.00 | ug/L | 100 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 511452 | 50.00 | ug/L | 100 |
| 119) hexachlorobutadiene | 18.00 | 225 | 253561 | 50.00 | ug/L | 100 |
| 120) naphthalene | 18.17 | 128 | 1244748 | 50.00 | ug/L | 100 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 481606 | 50.00 | ug/L | 100 |
| 122) hexachloroethane | 16.58 | 201 | 231840 | 50.00 | ug/L | 100 |
| 123) 2-methylnaphthalene | 19.41 | 142 | 330650 | 25.00 | ug/L | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218788.D
Acq On : 31 Jul 2022 8:41 pm
Operator : PrashanS
Sample : ICC9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 14:30:56 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:25:46 2022
QLast Update : Mon Aug 01 14:30:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218789.D
Acq On : 31 Jul 2022 9:09 pm
Operator : PrashanS
Sample : IC9511-100
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 14:57:44 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:56:08 2022
QLast Update : Mon Aug 01 14:56:58 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 459793 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 767103 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 1020951 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 978755 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 538107 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 766203 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 356658 | 49.31 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.62% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 474546 | 49.97 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.94% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1203527 | 50.13 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.26% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 490794 | 49.20 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.40% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 1234817 | 11414.00 | ug/L | 99 |
| 3) tertiary butyl alcohol | 7.37 | 59 | 585243 | 521.63 | ug/L | 100 |
| 4) 1,4-dioxane | 11.08 | 88 | 221072 | 2893.68 | ug/L | 98 |
| 6) chlorodifluoromethane | 3.98 | 51 | 1019998 | 95.89 | ug/L | 99 |
| 7) dichlorodifluoromethane | 3.95 | 85 | 1019002 | 98.02 | ug/L | 99 |
| 8) chloromethane | 4.34 | 50 | 1240966 | 90.23 | ug/L | 99 |
| 9) vinyl chloride | 4.57 | 62 | 999292 | 96.60 | ug/L | 99 |
| 10) 1,3-butadiene | 4.61 | 54 | 831794 | 88.52 | ug/L | 98 |
| 11) bromomethane | 5.18 | 94 | 593790 | 97.88 | ug/L | 97 |
| 12) chloroethane | 5.35 | 64 | 497196 | 103.53 | ug/L | 93 |
| 13) trichlorofluoromethane | 5.79 | 101 | 1164280 | 101.93 | ug/L | 95 |
| 14) ethyl ether | 6.19 | 74 | 366512 | 100.48 | ug/L | 99 |
| 15) acrolein | 6.41 | 56 | 175348 | 110.08 | ug/L | 99 |
| 16) freon 113 | 6.61 | 151 | 520898 | 94.48 | ug/L | 94 |
| 17) 1,1-dichloroethene | 6.60 | 96 | 550153 | 95.09 | ug/L | 99 |
| 18) acetone | 6.60 | 43 | 1150827 | 384.10 | ug/L | 98 |
| 19) acetonitrile | 7.01 | 41 | 1229737 | 1005.75 | ug/L | 98 |
| 20) iodomethane | 6.84 | 142 | 1084842 | 96.43 | ug/L | 99 |
| 21) carbon disulfide | 6.98 | 76 | 1831506 | 95.27 | ug/L | 99 |
| 22) methylene chloride | 7.30 | 84 | 647697 | 94.22 | ug/L | 98 |
| 23) methyl acetate | 7.06 | 43 | 756374 | 102.82 | ug/L | 99 |
| 24) methyl tert butyl ether | 7.65 | 73 | 1956452 | 94.58 | ug/L | 96 |
| 25) trans-1,2-dichloroethene | 7.68 | 96 | 618814 | 94.18 | ug/L | 96 |
| 26) hexane | 8.04 | 57 | 1091713 | 93.58 | ug/L | 98 |
| 27) di-isopropyl ether | 8.25 | 45 | 2724270 | 94.93 | ug/L | 97 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 2389269 | 96.01 | ug/L | 98 |
| 29) 2-butanone | 8.90 | 72 | 347321 | 447.36 | ug/L # | 88 |
| 30) 1,1-dichloroethane | 8.25 | 63 | 1237823 | 96.90 | ug/L | 99 |
| 31) chloroprene | 8.36 | 53 | 1223805 | 101.86 | ug/L | 98 |
| 32) acrylonitrile | 7.58 | 53 | 351188 | 110.28 | ug/L | 99 |
| 33) vinyl acetate | 8.20 | 86 | 138861 | 122.72 | ug/L # | 66 |
| 34) ethyl acetate | 8.92 | 45 | 157803 | 109.21 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218789.D
Acq On : 31 Jul 2022 9:09 pm
Operator : PrashanS
Sample : IC9511-100
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 14:57:44 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:56:08 2022
QLast Update : Mon Aug 01 14:56:58 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 9.00 | 77 | 965070 | 94.04 | ug/L | | 99 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 691701 | 96.29 | ug/L | | 97 |
| 37) propionitrile | 8.98 | 54 | 1257873 | 1034.17 | ug/L | | 92 |
| 38) bromochloromethane | 9.26 | 130 | 475481 | 100.32 | ug/L | | 97 |
| 39) tetrahydrofuran | 9.28 | 42 | 312882 | 90.13 | ug/L | | 98 |
| 40) chloroform | 9.35 | 83 | 1209474 | 89.31 | ug/L | | 98 |
| 41) tert-butyl formate | 9.38 | 59 | 730261 | 118.05 | ug/L | | 97 |
| 42) isobutyl alcohol | 9.74 | 43 | 541170 | 1071.11 | ug/L | | 99 |
| 44) methacrylonitrile | 9.17 | 67 | 319550 | 107.39 | ug/L | | 97 |
| 45) 1,1,1-trichloroethane | 9.60 | 97 | 1125850 | 97.73 | ug/L | | 99 |
| 46) cyclohexane | 9.71 | 84 | 970919 | 102.08 | ug/L | | 92 |
| 47) 1,1-dichloropropene | 9.78 | 75 | 894376 | 96.15 | ug/L | | 99 |
| 48) tert-amyl alcohol | 9.91 | 73 | 252155 | 492.98 | ug/L | | 97 |
| 49) carbon tetrachloride | 9.80 | 117 | 1024277 | 98.68 | ug/L | | 99 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 2787152 | 95.13 | ug/L | | 98 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 2038731 | 94.89 | ug/L | | 98 |
| 54) n-butyl alcohol | 10.49 | 56 | 1460985 | 5606.64 | ug/L | | 98 |
| 55) benzene | 10.02 | 78 | 2373166 | 96.01 | ug/L | | 98 |
| 56) heptane | 10.28 | 57 | 596268 | 101.74 | ug/L | | 98 |
| 57) isopropyl acetate | 9.94 | 87 | 161548 | 107.62 | ug/L | # | 85 |
| 58) 1,2-dichloroethane | 10.04 | 62 | 1092441 | 93.72 | ug/L | | 97 |
| 59) trichloroethene | 10.74 | 95 | 688135 | 98.41 | ug/L | | 99 |
| 60) ethyl acrylate | 10.73 | 55 | 1180211 | 108.02 | ug/L | | 98 |
| 61) 2-nitropropane | 11.50 | 41 | 320922 | 113.68 | ug/L | | 98 |
| 62) 2-chloroethyl vinyl ether | 11.54 | 63 | 1888529 | 853.99 | ug/L | | 95 |
| 63) methyl methacrylate | 11.00 | 100 | 195712 | 116.47 | ug/L | | 96 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 724213 | 100.11 | ug/L | | 100 |
| 65) methylcyclohexane | 11.04 | 83 | 1129075 | 98.74 | ug/L | | 97 |
| 66) dibromomethane | 11.14 | 93 | 465233 | 97.46 | ug/L | | 96 |
| 67) bromodichloromethane | 11.30 | 83 | 989742 | 100.53 | ug/L | | 100 |
| 68) epichlorohydrin | 11.62 | 57 | 469215 | 556.93 | ug/L | | 96 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 1112379 | 103.74 | ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 1416482 | 417.01 | ug/L | # | 79 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 488983 | 2434.74 | ug/L | | 88 |
| 74) toluene | 12.14 | 92 | 1529303 | 96.69 | ug/L | | 92 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 1070601 | 103.58 | ug/L | | 98 |
| 76) ethyl methacrylate | 12.31 | 69 | 955498 | 108.86 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 541907 | 100.66 | ug/L | | 96 |
| 78) 2-hexanone | 12.71 | 58 | 1370894 | 420.10 | ug/L | # | 87 |
| 79) tetrachloroethene | 12.68 | 166 | 748859 | 95.11 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 1001429 | 96.03 | ug/L | | 98 |
| 81) butyl acetate | 12.79 | 56 | 598332 | 107.87 | ug/L | | 95 |
| 82) dibromochloromethane | 12.96 | 129 | 823008 | 105.79 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 687815 | 103.76 | ug/L | | 94 |
| 84) n-butyl ether | 13.56 | 57 | 2887535 | 89.96 | ug/L | | 95 |
| 85) chlorobenzene | 13.59 | 112 | 1651463 | 95.19 | ug/L | | 96 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 700680 | 102.58 | ug/L | | 97 |
| 87) ethylbenzene | 13.66 | 91 | 2646448 | 86.69 | ug/L | | 94 |
| 88) m,p-xylene | 13.78 | 106 | 2234566 | 193.57 | ug/L | | 89 |
| 89) o-xylene | 14.18 | 91 | 2246730 | 91.15 | ug/L | | 94 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218789.D
Acq On : 31 Jul 2022 9:09 pm
Operator : PrashanS
Sample : IC9511-100
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 14:57:44 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:56:08 2022
QLast Update : Mon Aug 01 14:56:58 2022
Response via : Initial Calibration

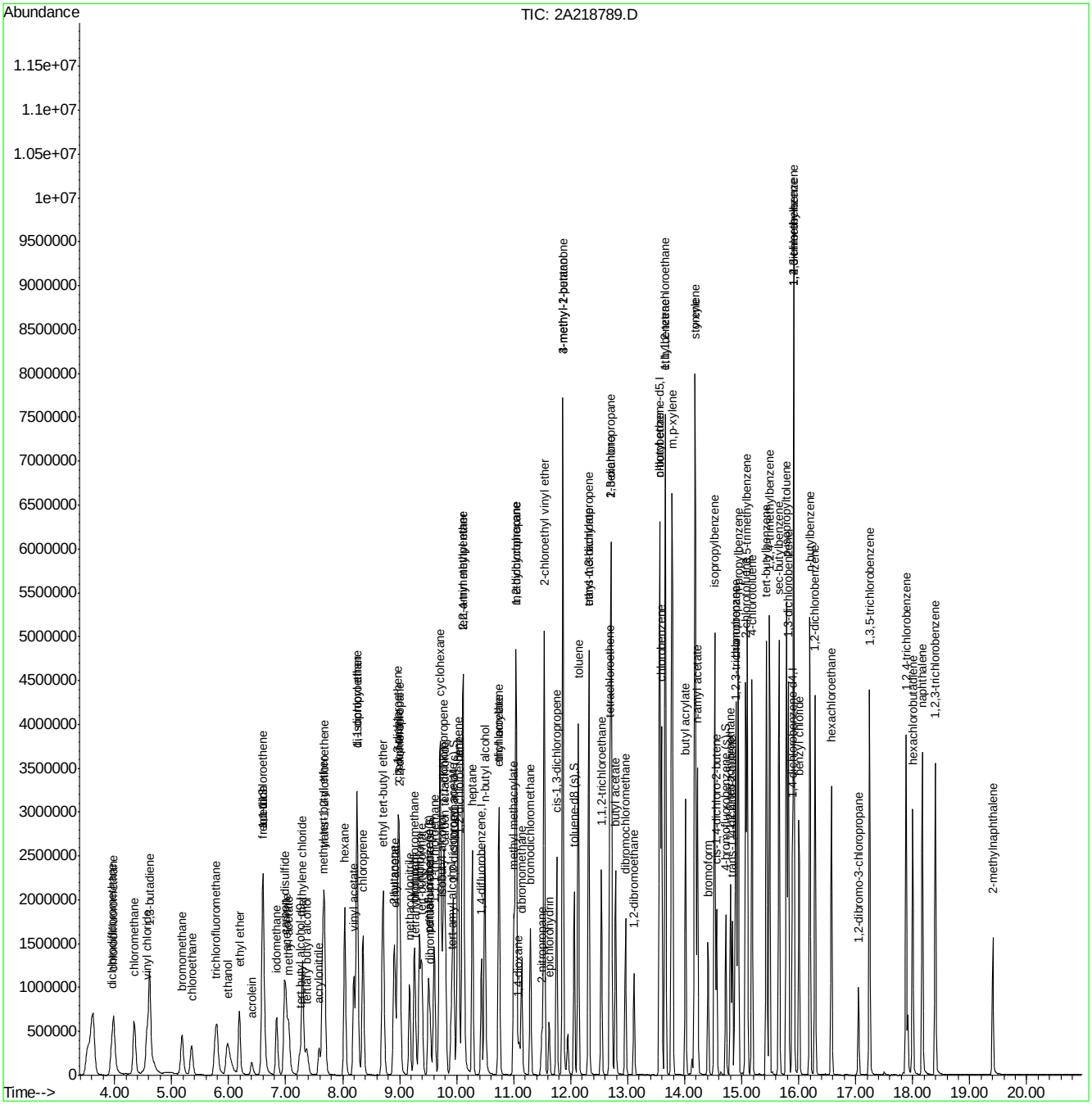
| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 90) styrene | 14.19 | 104 | 1881419 | 100.55 ug/L | 98 |
| 91) n-amyl acetate | 14.22 | 70 | 530039 | 112.25 ug/L | 93 |
| 92) bromoform | 14.41 | 173 | 627627 | 113.97 ug/L | 98 |
| 93) butyl acrylate | 14.01 | 55 | 1758147 | 106.68 ug/L | 95 |
| 94) isopropylbenzene | 14.53 | 105 | 2659670 | 90.14 ug/L | 93 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 364115 | 124.56 ug/L | 98 |
| 98) bromobenzene | 14.90 | 156 | 830178 | 94.61 ug/L | 98 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 907222 | 97.83 ug/L | 97 |
| 100) trans-1,4-dichloro-2-buten | 14.83 | 53 | 341911 | 115.82 ug/L | 99 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 242837 | 103.16 ug/L | 97 |
| 102) n-propylbenzene | 14.94 | 91 | 3092740 | 85.12 ug/L | 92 |
| 103) 2-chlorotoluene | 15.07 | 126 | 750624 | 98.93 ug/L | 91 |
| 104) 4-chlorotoluene | 15.18 | 91 | 2043632 | 89.87 ug/L | 97 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 2273581 | 91.60 ug/L | 94 |
| 106) tert-butylbenzene | 15.44 | 119 | 1982306 | 92.78 ug/L | 98 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 2293767 | 90.53 ug/L | 94 |
| 108) sec-butylbenzene | 15.66 | 105 | 2881813 | 89.25 ug/L | 93 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 1472886 | 93.64 ug/L | 97 |
| 110) p-isopropyltoluene | 15.79 | 119 | 2476449 | 90.29 ug/L | 94 |
| 111) benzyl chloride | 16.01 | 91 | 1622166 | 107.99 ug/L | 97 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 2328806 | 88.74 ug/L | 94 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 1520831 | 92.73 ug/L | 98 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 1459443 | 95.06 ug/L | 96 |
| 115) n-butylbenzene | 16.19 | 92 | 1421483 | 99.84 ug/L | 92 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 223516 | 115.61 ug/L | 92 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 1164572 | 97.72 ug/L | 98 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 1063844 | 105.43 ug/L | 96 |
| 119) hexachlorobutadiene | 18.00 | 225 | 541433 | 104.40 ug/L | 99 |
| 120) naphthalene | 18.17 | 128 | 2511427 | 103.21 ug/L | 96 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 1007289 | 106.31 ug/L | 99 |
| 122) hexachloroethane | 16.58 | 201 | 498427 | 118.73 ug/L | 99 |
| 123) 2-methylnaphthalene | 19.41 | 142 | 746190 | 65.36 ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218789.D
Acq On : 31 Jul 2022 9:09 pm
Operator : PrashanS
Sample : IC9511-100
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 14:57:44 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:56:08 2022
QLast Update : Mon Aug 01 14:56:58 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/01/22 19:36

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218790.D
Acq On : 31 Jul 2022 9:38 pm
Operator : PrashanS
Sample : IC9511-200
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 14:59:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:56:58 2022
QLast Update : Mon Aug 01 14:57:51 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.26 | 65 | 466711 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 787560 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 1056636 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 1016487 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 549265 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 786735 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 370135 | 49.92 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.84% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 489230 | 49.78 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.56% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1227827 | 49.23 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.46% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 506250 | 49.80 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.60% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 2507597 | 22383.19 | ug/L | 99 |
| 3) tertiary butyl alcohol | 7.37 | 59 | 1151431 | 1004.85 | ug/L | 95 |
| 4) 1,4-dioxane | 11.08 | 88 | 439086 | 5537.57 | ug/L | 99 |
| 6) chlorodifluoromethane | 3.99 | 51 | 1945766 | 179.09 | ug/L | 97 |
| 7) dichlorodifluoromethane | 3.96 | 85 | 2007470 | 188.56 | ug/L | 99 |
| 8) chloromethane | 4.34 | 50 | 2319881 | 166.32 | ug/L | 96 |
| 9) vinyl chloride | 4.57 | 62 | 1922923 | 181.82 | ug/L | 99 |
| 10) 1,3-butadiene | 4.61 | 54 | 1572491 | 165.38 | ug/L | 99 |
| 11) bromomethane | 5.17 | 94 | 1175847 | 189.29 | ug/L | 100 |
| 12) chloroethane | 5.35 | 64 | 998027 | 201.52 | ug/L | 94 |
| 13) trichlorofluoromethane | 5.79 | 101 | 2305229 | 196.16 | ug/L | 98 |
| 14) ethyl ether | 6.19 | 74 | 732066 | 195.37 | ug/L | 94 |
| 15) acrolein | 6.41 | 56 | 353644 | 213.18 | ug/L | 98 |
| 16) freon 113 | 6.61 | 151 | 1039665 | 184.95 | ug/L | 93 |
| 17) 1,1-dichloroethene | 6.60 | 96 | 1072566 | 181.69 | ug/L | 94 |
| 18) acetone | 6.61 | 43 | 2212776 | 722.94 | ug/L | 96 |
| 19) acetonitrile | 7.01 | 41 | 2392817 | 1904.78 | ug/L | 100 |
| 20) iodomethane | 6.84 | 142 | 2101270 | 182.65 | ug/L | 99 |
| 21) carbon disulfide | 6.98 | 76 | 3453484 | 176.02 | ug/L | 99 |
| 22) methylene chloride | 7.30 | 84 | 1253295 | 178.88 | ug/L | 97 |
| 23) methyl acetate | 7.06 | 43 | 1459173 | 192.53 | ug/L | 99 |
| 24) methyl tert butyl ether | 7.66 | 73 | 3674108 | 174.05 | ug/L | 93 |
| 25) trans-1,2-dichloroethene | 7.68 | 96 | 1205853 | 180.07 | ug/L | 96 |
| 26) hexane | 8.03 | 57 | 2131802 | 179.26 | ug/L | 98 |
| 27) di-isopropyl ether | 8.25 | 45 | 4954270 | 169.11 | ug/L | 93 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 4422135 | 173.85 | ug/L | 93 |
| 29) 2-butanone | 8.90 | 72 | 676627 | 834.75 | ug/L # | 79 |
| 30) 1,1-dichloroethane | 8.25 | 63 | 2370352 | 181.36 | ug/L | 98 |
| 31) chloroprene | 8.36 | 53 | 2345339 | 189.74 | ug/L | 96 |
| 32) acrylonitrile | 7.59 | 53 | 700650 | 211.20 | ug/L | 98 |
| 33) vinyl acetate | 8.20 | 86 | 275079 | 229.35 | ug/L # | 48 |
| 34) ethyl acetate | 8.92 | 45 | 316543 | 210.61 | ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218790.D
Acq On : 31 Jul 2022 9:38 pm
Operator : PrashanS
Sample : IC9511-200
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 14:59:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:56:58 2022
QLast Update : Mon Aug 01 14:57:51 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 35) 2,2-dichloropropane | 9.00 | 77 | 1856703 | 177.40 ug/L | | 97 |
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 1346873 | 183.39 ug/L | | 96 |
| 37) propionitrile | 8.98 | 54 | 2362630 | 1883.95 ug/L | | 90 |
| 38) bromochloromethane | 9.26 | 130 | 927216 | 190.47 ug/L | | 97 |
| 39) tetrahydrofuran | 9.28 | 42 | 608625 | 173.21 ug/L | | 99 |
| 40) chloroform | 9.35 | 83 | 2266992 | 165.26 ug/L | | 95 |
| 41) tert-butyl formate | 9.38 | 59 | 1422033 | 219.50 ug/L | | 97 |
| 42) isobutyl alcohol | 9.75 | 43 | 1006806 | 1921.44 ug/L | | 93 |
| 44) methacrylonitrile | 9.18 | 67 | 629596 | 203.93 ug/L | | 95 |
| 45) 1,1,1-trichloroethane | 9.60 | 97 | 2130679 | 180.60 ug/L | | 94 |
| 46) cyclohexane | 9.71 | 84 | 1907068 | 194.85 ug/L | | 97 |
| 47) 1,1-dichloropropene | 9.78 | 75 | 1698828 | 178.66 ug/L | | 96 |
| 48) tert-amyl alcohol | 9.91 | 73 | 501885 | 957.65 ug/L | | 93 |
| 49) carbon tetrachloride | 9.80 | 117 | 1936262 | 181.96 ug/L | | 97 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 5105819 | 169.30 ug/L | | 93 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 3730617 | 168.72 ug/L | | 93 |
| 54) n-butyl alcohol | 10.50 | 56 | 2802541 | 10236.50 ug/L | | 95 |
| 55) benzene | 10.02 | 78 | 4295872 | 168.67 ug/L | | 93 |
| 56) heptane | 10.28 | 57 | 1179216 | 194.04 ug/L | | 98 |
| 57) isopropyl acetate | 9.94 | 87 | 318969 | 203.10 ug/L | # | 68 |
| 58) 1,2-dichloroethane | 10.04 | 62 | 2053719 | 171.58 ug/L | | 95 |
| 59) trichloroethene | 10.74 | 95 | 1330747 | 184.20 ug/L | | 98 |
| 60) ethyl acrylate | 10.74 | 55 | 2214265 | 193.88 ug/L | | 95 |
| 61) 2-nitropropane | 11.50 | 41 | 616512 | 206.97 ug/L | | 97 |
| 62) 2-chloroethyl vinyl ether | 11.54 | 63 | 3656614 | 1467.77 ug/L | | 84 |
| 63) methyl methacrylate | 11.00 | 100 | 383199 | 215.28 ug/L | # | 89 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 1406329 | 187.80 ug/L | | 97 |
| 65) methylcyclohexane | 11.04 | 83 | 2186396 | 185.01 ug/L | | 97 |
| 66) dibromomethane | 11.14 | 93 | 899104 | 182.51 ug/L | | 96 |
| 67) bromodichloromethane | 11.30 | 83 | 1866491 | 183.08 ug/L | | 96 |
| 68) epichlorohydrin | 11.62 | 57 | 899434 | 1015.00 ug/L | | 95 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 2070525 | 185.80 ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 2628926 | 744.30 ug/L | # | 50 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 955927 | 4477.35 ug/L | # | 83 |
| 74) toluene | 12.14 | 92 | 2835179 | 173.23 ug/L | # | 81 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 2008871 | 186.40 ug/L | | 93 |
| 76) ethyl methacrylate | 12.32 | 69 | 1797622 | 195.04 ug/L | | 95 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 1032478 | 184.53 ug/L | | 96 |
| 78) 2-hexanone | 12.71 | 58 | 2496455m | 732.02 ug/L | | |
| 79) tetrachloroethene | 12.68 | 166 | 1438276 | 176.84 ug/L | | 96 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 1896115 | 175.85 ug/L | | 95 |
| 81) butyl acetate | 12.79 | 56 | 1139985 | 195.97 ug/L | # | 81 |
| 82) dibromochloromethane | 12.96 | 129 | 1567845 | 192.82 ug/L | | 98 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 1307311 | 189.11 ug/L | | 98 |
| 84) n-butyl ether | 13.56 | 57 | 4656404 | 141.27 ug/L | | 84 |
| 85) chlorobenzene | 13.59 | 112 | 2958993 | 165.10 ug/L | | 89 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 1359925 | 191.15 ug/L | | 97 |
| 87) ethylbenzene | 13.66 | 91 | 4325760 | 138.48 ug/L | | 78 |
| 88) m,p-xylene | 13.78 | 106 | 4067940m | 340.52 ug/L | | |
| 89) o-xylene | 14.18 | 91 | 3798015 | 149.84 ug/L | | 81 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218790.D
Acq On : 31 Jul 2022 9:38 pm
Operator : PrashanS
Sample : IC9511-200
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 14:59:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:56:58 2022
QLast Update : Mon Aug 01 14:57:51 2022
Response via : Initial Calibration

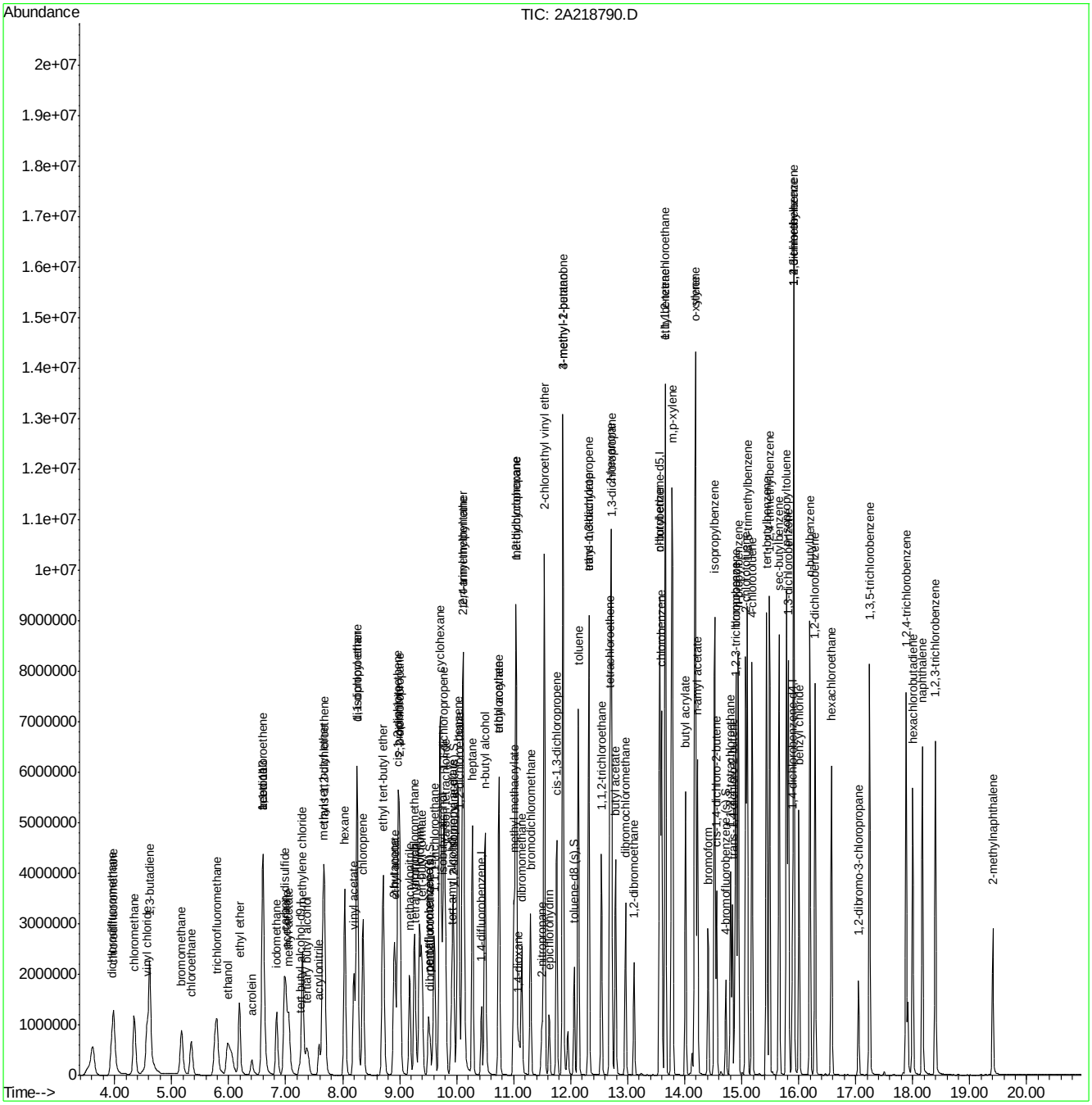
| Internal Standards | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 90) styrene | 14.19 | 104 | 3300708 | 169.75 ug/L | | 94 |
| 91) n-amyl acetate | 14.22 | 70 | 1029302 | 206.73 ug/L | # | 73 |
| 92) bromoform | 14.41 | 173 | 1198100 | 206.29 ug/L | | 99 |
| 93) butyl acrylate | 14.01 | 55 | 3066741 | 177.69 ug/L | | 86 |
| 94) isopropylbenzene | 14.53 | 105 | 4389902 | 144.85 ug/L | | 79 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 703659 | 224.87 ug/L | | 96 |
| 98) bromobenzene | 14.90 | 156 | 1557178 | 174.91 ug/L | | 97 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 1671453 | 177.00 ug/L | | 93 |
| 100) trans-1,4-dichloro-2-buten | 14.84 | 53 | 658540 | 213.72 ug/L | | 95 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 464207 | 192.43 ug/L | | 95 |
| 102) n-propylbenzene | 14.94 | 91 | 4853553 | 133.07 ug/L | | 76 |
| 103) 2-chlorotoluene | 15.07 | 126 | 1422059 | 183.83 ug/L | # | 77 |
| 104) 4-chlorotoluene | 15.18 | 91 | 3533495 | 153.97 ug/L | | 88 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 3795652 | 151.22 ug/L | | 79 |
| 106) tert-butylbenzene | 15.44 | 119 | 3486356 | 161.15 ug/L | | 93 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 3819384 | 149.24 ug/L | | 80 |
| 108) sec-butylbenzene | 15.66 | 105 | 4643148 | 142.58 ug/L | | 79 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 2643128 | 165.79 ug/L | | 92 |
| 110) p-isopropyltoluene | 15.79 | 119 | 4099510 | 148.03 ug/L | | 80 |
| 111) benzyl chloride | 16.01 | 91 | 2869003 | 185.27 ug/L | | 91 |
| 112) 1,2,3-trimethylbenzene | 15.92 | 105 | 3830859 | 144.83 ug/L | | 81 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 2696046 | 162.35 ug/L | | 90 |
| 114) 1,2-dichlorobenzene | 16.29 | 146 | 2578195 | 165.42 ug/L | | 90 |
| 115) n-butylbenzene | 16.19 | 92 | 2538634 | 174.72 ug/L | # | 79 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 428522 | 212.99 ug/L | | 94 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 2098252 | 172.93 ug/L | | 95 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 1935846 | 186.82 ug/L | | 93 |
| 119) hexachlorobutadiene | 18.00 | 225 | 1019566 | 191.66 ug/L | | 98 |
| 120) naphthalene | 18.17 | 128 | 4186948 | 167.97 ug/L | | 88 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 1852704 | 190.22 ug/L | | 98 |
| 122) hexachloroethane | 16.58 | 201 | 958253 | 219.06 ug/L | | 99 |
| 123) 2-methylnaphthalene | 19.41 | 142 | 1401982 | 114.45 ug/L | | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218790.D
Acq On : 31 Jul 2022 9:38 pm
Operator : PrashanS
Sample : IC9511-200
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 14:59:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:56:58 2022
QLast Update : Mon Aug 01 14:57:51 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



**Sample Number:** V2A9511-IC9511
**Lab FileID:** 2A218790.D
**Injection Time:** 07/31/22 21:38
**Method:** SW846 8260D
**Analyst approved:** 08/01/22 15:32 MoHui Huang
**Supervisor approved:** 08/01/22 19:36 Kanya Veerawat

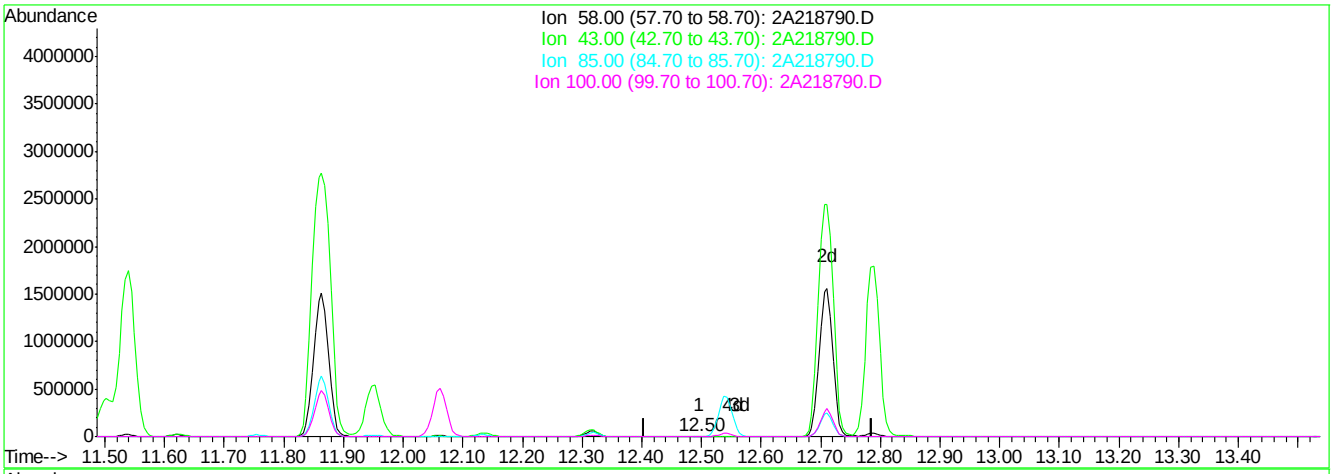
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| 2-Hexanone | 591-78-6 | | 12.71 | Missed peak |
| m,p-Xylene | | | 13.78 | Missed peak |

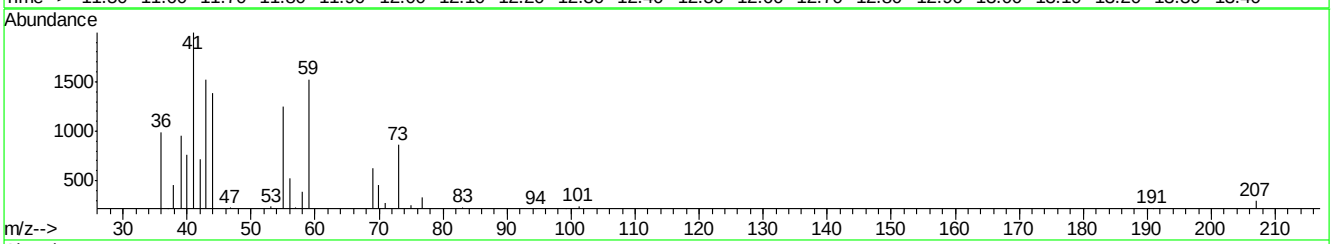
Quantitation Report (Qedit)

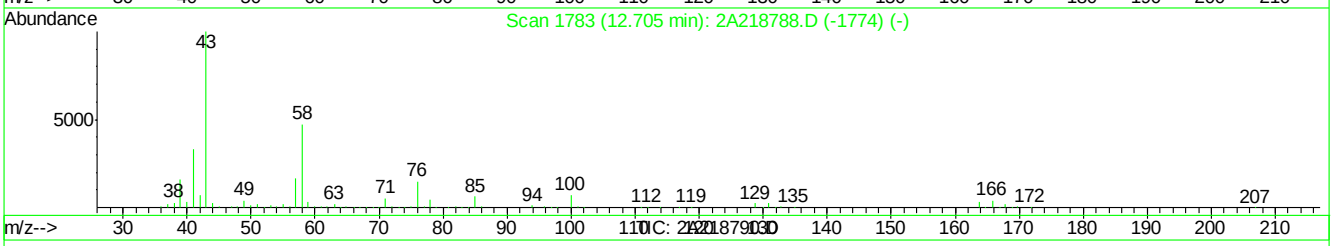
Data File : C:\MSDChem\1\DATA\V2A9511\2A218790.D Vial: 11
Acq On : 31 Jul 2022 9:38 pm Operator: PrashanS
Sample : IC9511-200 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:57:58 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:57:51 2022
Last Update : Mon Aug 01 14:57:51 2022
Response via : Multiple Level Calibration




(78) 2-hexanone

12.50min 0.08ug/L

response 268

| Ion | Exp% | Act% |
|---|---|---|
| 58.00 | 100 | 100 |
| 43.00 | 211.60 | 202.36 |
| 85.00 | 13.20 | 0.00 |
| 100.00 | 15.00 | 0.00 |

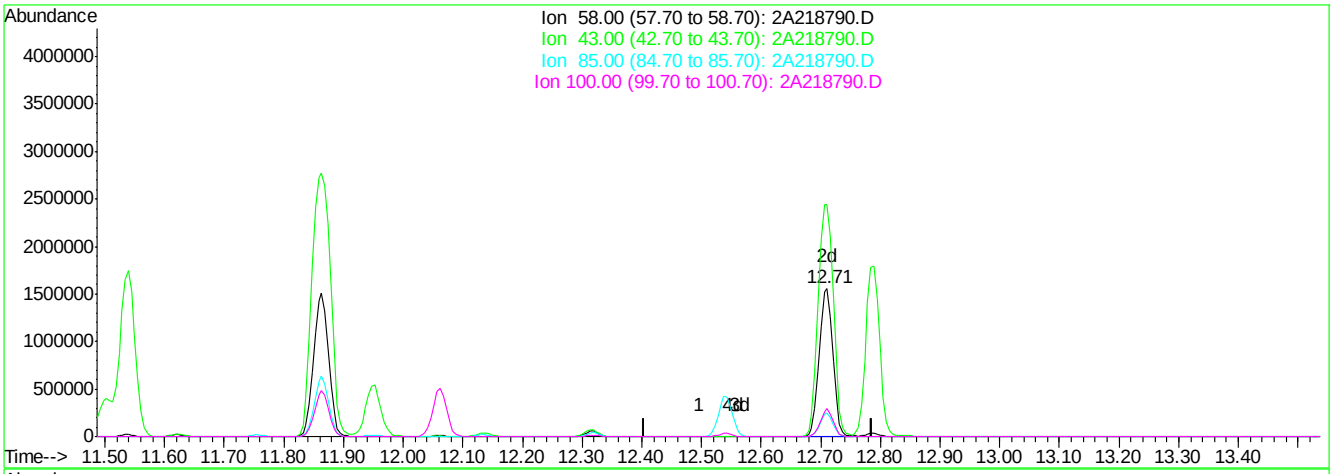
2A218790.D M2A9511.M Mon Aug 01 14:58:38 2022 MS2A

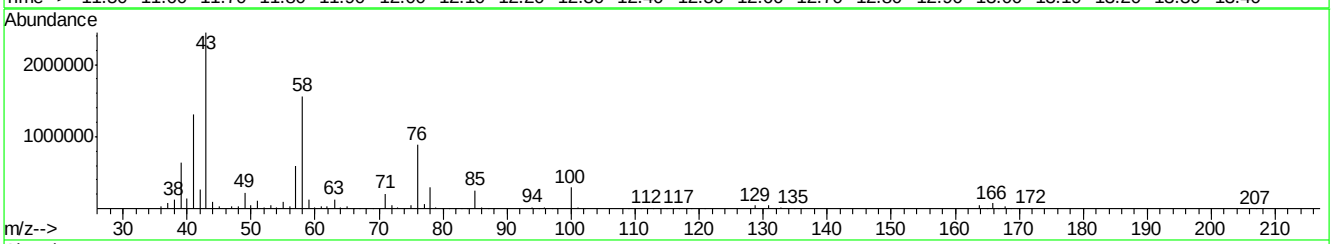
Quantitation Report (Qedit)

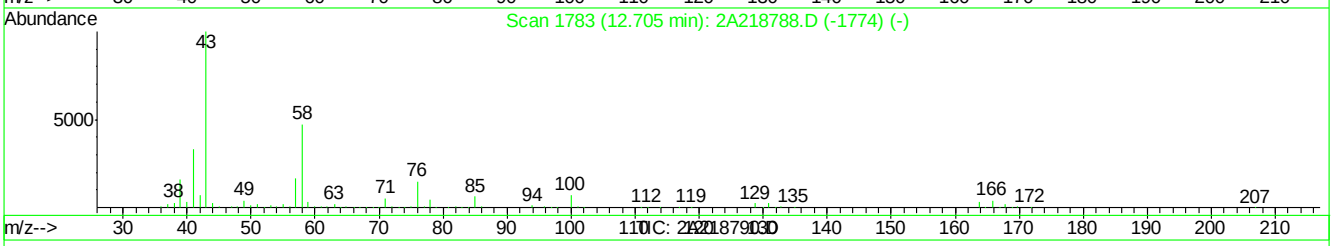
Data File : C:\MSDChem\1\DATA\V2A9511\2A218790.D Vial: 11
Acq On : 31 Jul 2022 9:38 pm Operator: PrashanS
Sample : IC9511-200 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:57:58 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:57:51 2022
Last Update : Mon Aug 01 14:57:51 2022
Response via : Multiple Level Calibration




(78) 2-hexanone

12.71min 732.02ug/L m

response 2496455

| Ion | Exp% | Act% |
|---|---|---|
| 58.00 | 100 | 100 |
| 43.00 | 211.60 | 156.44# |
| 85.00 | 13.20 | 16.03 |
| 100.00 | 15.00 | 18.58 |

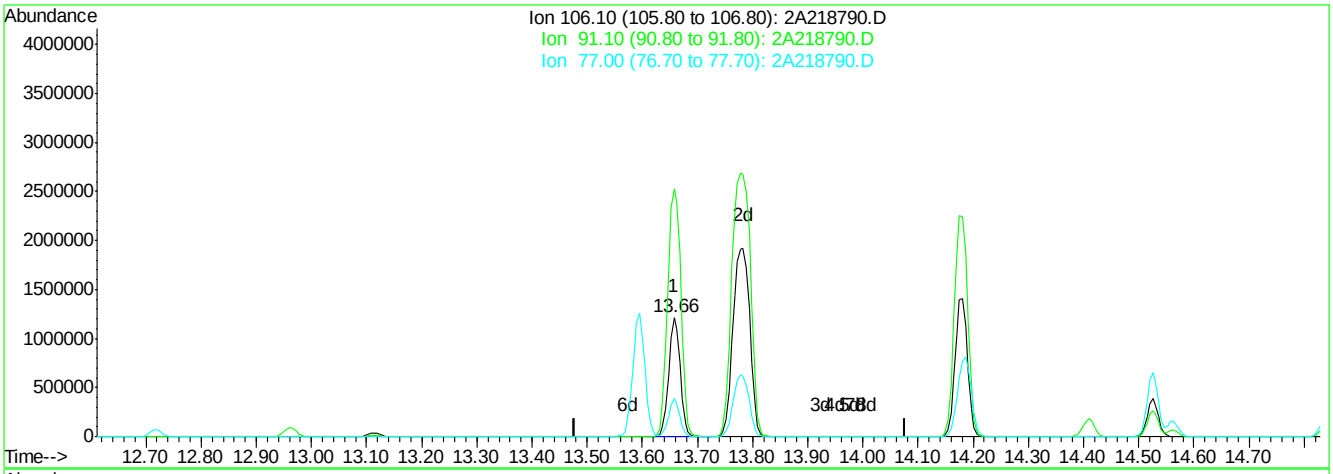
2A218790.D M2A9511.M Mon Aug 01 14:58:59 2022 MS2A

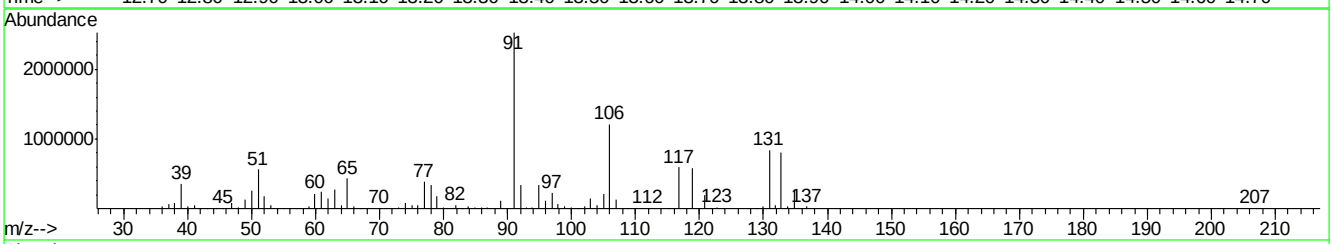
Quantitation Report (Qedit)

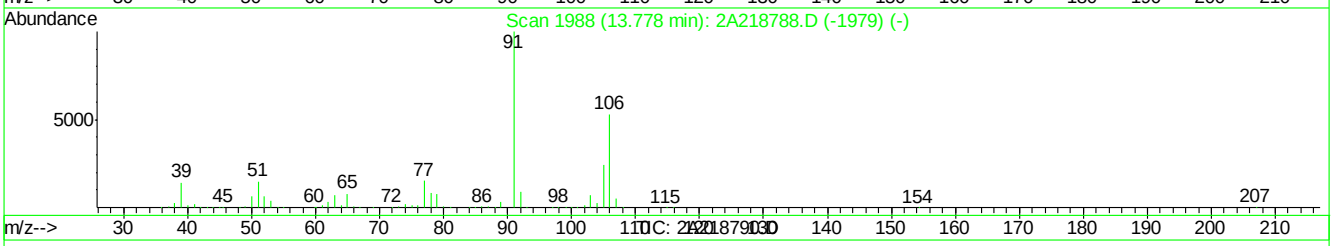
Data File : C:\MSDChem\1\DATA\V2A9511\2A218790.D Vial: 11
Acq On : 31 Jul 2022 9:38 pm Operator: PrashanS
Sample : IC9511-200 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:57:58 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:57:51 2022
Last Update : Mon Aug 01 14:57:51 2022
Response via : Multiple Level Calibration




(88) m,p-xylene

13.66min 149.53ug/L

response 1786280

| Ion | Exp% | Act% |
|---|---|---|
| 106.10 | 100 | 100 |
| 91.10 | 188.10 | 208.07 |
| 77.00 | 28.60 | 31.62 |
| 0.00 | 0.00 | 0.00 |

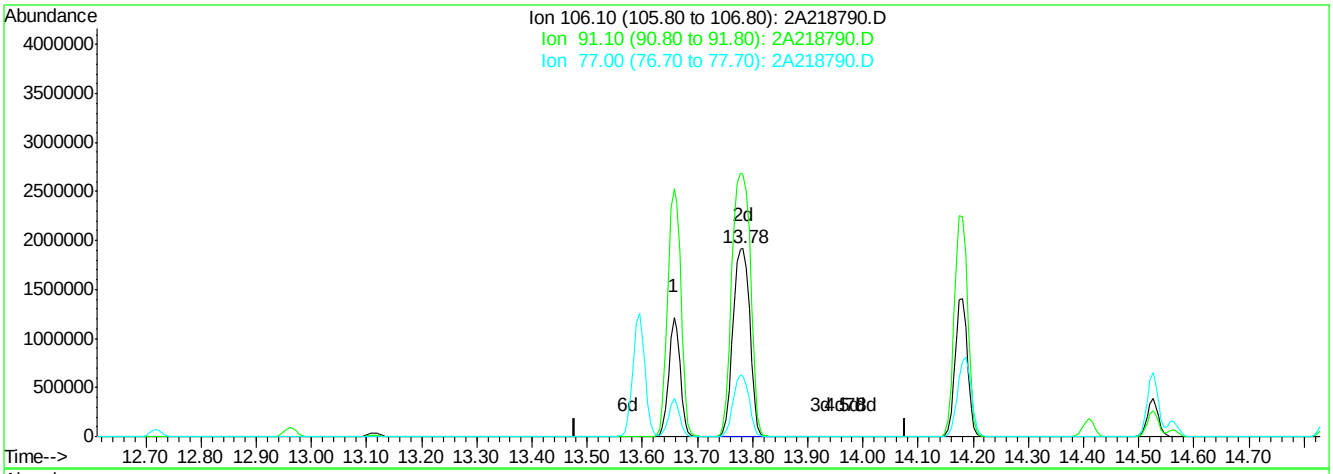
2A218790.D M2A9511.M Mon Aug 01 14:59:10 2022 MS2A

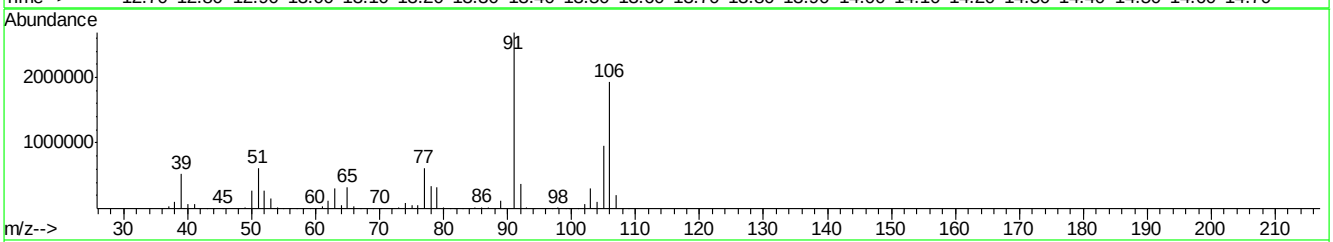
Quantitation Report (Qedit)

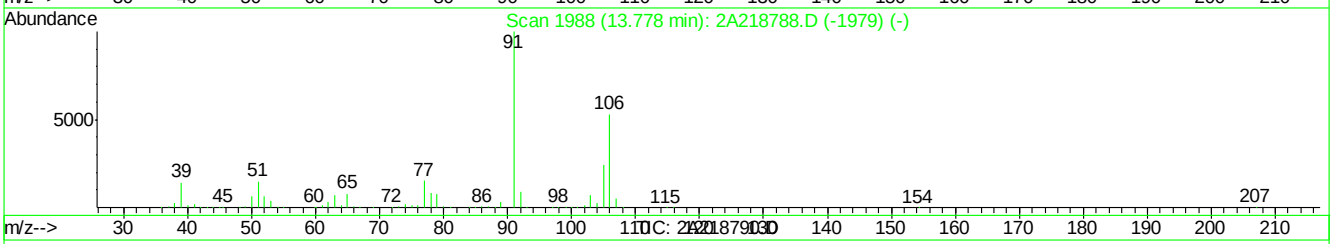
Data File : C:\MSDChem\1\DATA\V2A9511\2A218790.D Vial: 11
Acq On : 31 Jul 2022 9:38 pm Operator: PrashanS
Sample : IC9511-200 Inst : GCMS2A
Misc : MS60684,V2A9511,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Aug 01 14:57:58 2022 Results File: M2A9511.RES

Method : C:\MSDCHEM\1\METHODS\M2A9511.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 14:57:51 2022
Last Update : Mon Aug 01 14:57:51 2022
Response via : Multiple Level Calibration




(88) m,p-xylene

13.78min 340.52ug/L m

response 4067940

| Ion | Exp% | Act% |
|---|---|---|
| 106.10 | 100 | 100 |
| 91.10 | 188.10 | 139.32# |
| 77.00 | 28.60 | 32.26 |
| 0.00 | 0.00 | 0.00 |

2A218790.D M2A9511.M Mon Aug 01 14:59:28 2022 MS2A

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218793.D
Acq On : 31 Jul 2022 11:03 pm
Operator : PrashanS
Sample : ICV9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:16:16 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:09:53 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 445809 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 771519 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 1037484 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 978504 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 534207 | 50.00 | ug/L | | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 768917 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 359805 | 49.54 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.08% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 479151 | 49.68 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.36% | | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1212604 | 50.59 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.18% | | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 495200 | 50.11 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.22% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 5.98 | 45 | 548160 | 5047.19 | ug/L | | 97 |
| 3) tertiary butyl alcohol | 7.37 | 59 | 283409 | 258.77 | ug/L | | 98 |
| 4) 1,4-dioxane | 11.08 | 88 | 103513 | 1348.55 | ug/L | | 98 |
| 7) dichlorodifluoromethane | 3.96 | 85 | 504631 | 48.69 | ug/L | | 99 |
| 8) chloromethane | 4.35 | 50 | 581197 | 43.35 | ug/L | | 99 |
| 9) vinyl chloride | 4.57 | 62 | 503038 | 49.05 | ug/L | | 98 |
| 10) 1,3-butadiene | 4.62 | 54 | 521809 | 57.12 | ug/L | | 99 |
| 11) bromomethane | 5.19 | 94 | 304171 | 50.28 | ug/L | | 95 |
| 12) chloroethane | 5.36 | 64 | 260183 | 53.58 | ug/L | | 94 |
| 13) trichlorofluoromethane | 5.79 | 101 | 596548 | 51.92 | ug/L | | 94 |
| 14) ethyl ether | 6.19 | 74 | 180624 | 49.33 | ug/L | | 95 |
| 15) acrolein | 6.41 | 56 | 84396 | 51.51 | ug/L | | 99 |
| 16) freon 113 | 6.61 | 151 | 263505 | 48.25 | ug/L | | 95 |
| 17) 1,1-dichloroethene | 6.60 | 96 | 280795 | 49.05 | ug/L | | 98 |
| 18) acetone | 6.61 | 43 | 557328 | 187.88 | ug/L | | 99 |
| 19) acetonitrile | 7.02 | 41 | 523329 | 427.51 | ug/L | | 99 |
| 20) iodomethane | 6.85 | 142 | 542748 | 48.58 | ug/L | | 98 |
| 21) carbon disulfide | 6.98 | 76 | 968263 | 51.06 | ug/L | | 99 |
| 22) methylene chloride | 7.31 | 84 | 331689 | 48.90 | ug/L | | 98 |
| 23) methyl acetate | 7.06 | 43 | 393735 | 53.25 | ug/L | | 97 |
| 24) methyl tert butyl ether | 7.66 | 73 | 1014871 | 49.72 | ug/L | | 97 |
| 25) trans-1,2-dichloroethene | 7.69 | 96 | 315986 | 48.71 | ug/L | | 95 |
| 26) hexane | 8.04 | 57 | 629374 | 54.59 | ug/L | | 97 |
| 27) di-isopropyl ether | 8.25 | 45 | 1360441 | 48.15 | ug/L | | 99 |
| 28) ethyl tert-butyl ether | 8.71 | 59 | 1158329 | 47.10 | ug/L | | 99 |
| 29) 2-butanone | 8.90 | 72 | 173033 | 216.73 | ug/L | | 96 |
| 30) 1,1-dichloroethane | 8.26 | 63 | 616720 | 48.62 | ug/L | | 99 |
| 31) chloroprene | 8.36 | 53 | 656494 | 54.50 | ug/L | | 97 |
| 32) acrylonitrile | 7.59 | 53 | 170484 | 52.09 | ug/L | | 98 |
| 33) vinyl acetate | 8.20 | 86 | 57906 | 48.40 | ug/L | # | 92 |
| 34) ethyl acetate | 8.92 | 45 | 76594 | 51.68 | ug/L | | 93 |
| 35) 2,2-dichloropropane | 9.00 | 77 | 456939 | 45.08 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218793.D
Acq On : 31 Jul 2022 11:03 pm
Operator : PrashanS
Sample : ICV9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:16:16 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:09:53 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 8.97 | 96 | 344944 | 48.34 | ug/L | 99 |
| 37) propionitrile | 8.98 | 54 | 591718 | 484.77 | ug/L | 84 |
| 38) bromochloromethane | 9.26 | 130 | 235453 | 49.64 | ug/L | 96 |
| 39) tetrahydrofuran | 9.28 | 42 | 149461 | 44.16 | ug/L | 97 |
| 40) chloroform | 9.35 | 83 | 615437 | 46.70 | ug/L | 99 |
| 41) tert-butyl formate | 9.39 | 59 | 204245 | 31.87 | ug/L | 97 |
| 42) isobutyl alcohol | 9.75 | 43 | 241200 | 472.21 | ug/L | 95 |
| 44) methacrylonitrile | 9.17 | 67 | 158794 | 52.38 | ug/L | 98 |
| 45) 1,1,1-trichloroethane | 9.60 | 97 | 569432 | 49.75 | ug/L | 99 |
| 46) cyclohexane | 9.72 | 84 | 492481 | 51.50 | ug/L | 97 |
| 47) 1,1-dichloropropene | 9.78 | 75 | 456160 | 49.50 | ug/L | 99 |
| 48) tert-amyl alcohol | 9.91 | 73 | 117479 | 230.04 | ug/L | 97 |
| 49) carbon tetrachloride | 9.80 | 117 | 519661 | 50.30 | ug/L | 97 |
| 52) 2,2,4-trimethylpentane | 10.12 | 57 | 1413533 | 48.48 | ug/L | 100 |
| 53) tert-amyl methyl ether | 10.11 | 73 | 964039 | 45.11 | ug/L | 100 |
| 54) n-butyl alcohol | 10.50 | 56 | 707896 | 2626.47 | ug/L | 98 |
| 55) benzene | 10.02 | 78 | 1228169 | 49.89 | ug/L | 99 |
| 56) heptane | 10.28 | 57 | 321460 | 54.03 | ug/L | 98 |
| 57) isopropyl acetate | 9.94 | 87 | 79099 | 51.20 | ug/L | 95 |
| 58) 1,2-dichloroethane | 10.04 | 62 | 551476 | 47.68 | ug/L | 99 |
| 59) trichloroethene | 10.74 | 95 | 349136 | 49.61 | ug/L | 99 |
| 60) ethyl acrylate | 10.74 | 55 | 571460 | 51.13 | ug/L | 99 |
| 61) 2-nitropropane | 11.50 | 41 | 154744 | 52.68 | ug/L | 95 |
| 62) 2-chloroethyl vinyl ether | 11.54 | 63 | 810631 | 230.49 | ug/L | 97 |
| 63) methyl methacrylate | 11.01 | 100 | 94186 | 53.38 | ug/L | 97 |
| 64) 1,2-dichloropropane | 11.03 | 63 | 359442 | 49.22 | ug/L | 99 |
| 65) methylcyclohexane | 11.04 | 83 | 587118 | 50.98 | ug/L | 99 |
| 66) dibromomethane | 11.14 | 93 | 231839 | 48.35 | ug/L | 96 |
| 67) bromodichloromethane | 11.30 | 83 | 495295 | 49.90 | ug/L | 100 |
| 68) epichlorohydrin | 11.62 | 57 | 216005 | 247.79 | ug/L | 100 |
| 69) cis-1,3-dichloropropene | 11.75 | 75 | 556209 | 51.20 | ug/L | 98 |
| 70) 4-methyl-2-pentanone | 11.86 | 58 | 691136 | 200.68 | ug/L | 99 |
| 71) 3-methyl-1-butanol | 11.87 | 70 | 230963 | 1087.33 | ug/L | 96 |
| 74) toluene | 12.14 | 92 | 784425 | 50.47 | ug/L | 97 |
| 75) trans-1,3-dichloropropene | 12.32 | 75 | 532792 | 51.71 | ug/L | 99 |
| 76) ethyl methacrylate | 12.31 | 69 | 469179 | 53.03 | ug/L | 99 |
| 77) 1,1,2-trichloroethane | 12.54 | 83 | 270890 | 50.69 | ug/L | 96 |
| 78) 2-hexanone | 12.71 | 58 | 670802 | 206.28 | ug/L | 96 |
| 79) tetrachloroethene | 12.68 | 166 | 378879 | 48.96 | ug/L | 97 |
| 80) 1,3-dichloropropane | 12.72 | 76 | 499148 | 48.68 | ug/L | 99 |
| 81) butyl acetate | 12.79 | 56 | 306588 | 54.87 | ug/L | 98 |
| 82) dibromochloromethane | 12.96 | 129 | 407592 | 52.26 | ug/L | 99 |
| 83) 1,2-dibromoethane | 13.11 | 107 | 347342 | 52.48 | ug/L | 92 |
| 84) n-butyl ether | 13.56 | 57 | 1537312 | 49.92 | ug/L | 100 |
| 85) chlorobenzene | 13.59 | 112 | 855501 | 50.47 | ug/L | 100 |
| 86) 1,1,1,2-tetrachloroethane | 13.66 | 131 | 345395 | 50.66 | ug/L | 98 |
| 87) ethylbenzene | 13.66 | 91 | 1448324 | 49.69 | ug/L | 99 |
| 88) m,p-xylene | 13.78 | 106 | 1149394 | 101.46 | ug/L | 97 |
| 89) o-xylene | 14.18 | 91 | 1189905 | 50.02 | ug/L | 100 |
| 90) styrene | 14.19 | 104 | 970311 | 52.63 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218793.D
Acq On : 31 Jul 2022 11:03 pm
Operator : PrashanS
Sample : ICV9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:16:16 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:09:53 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

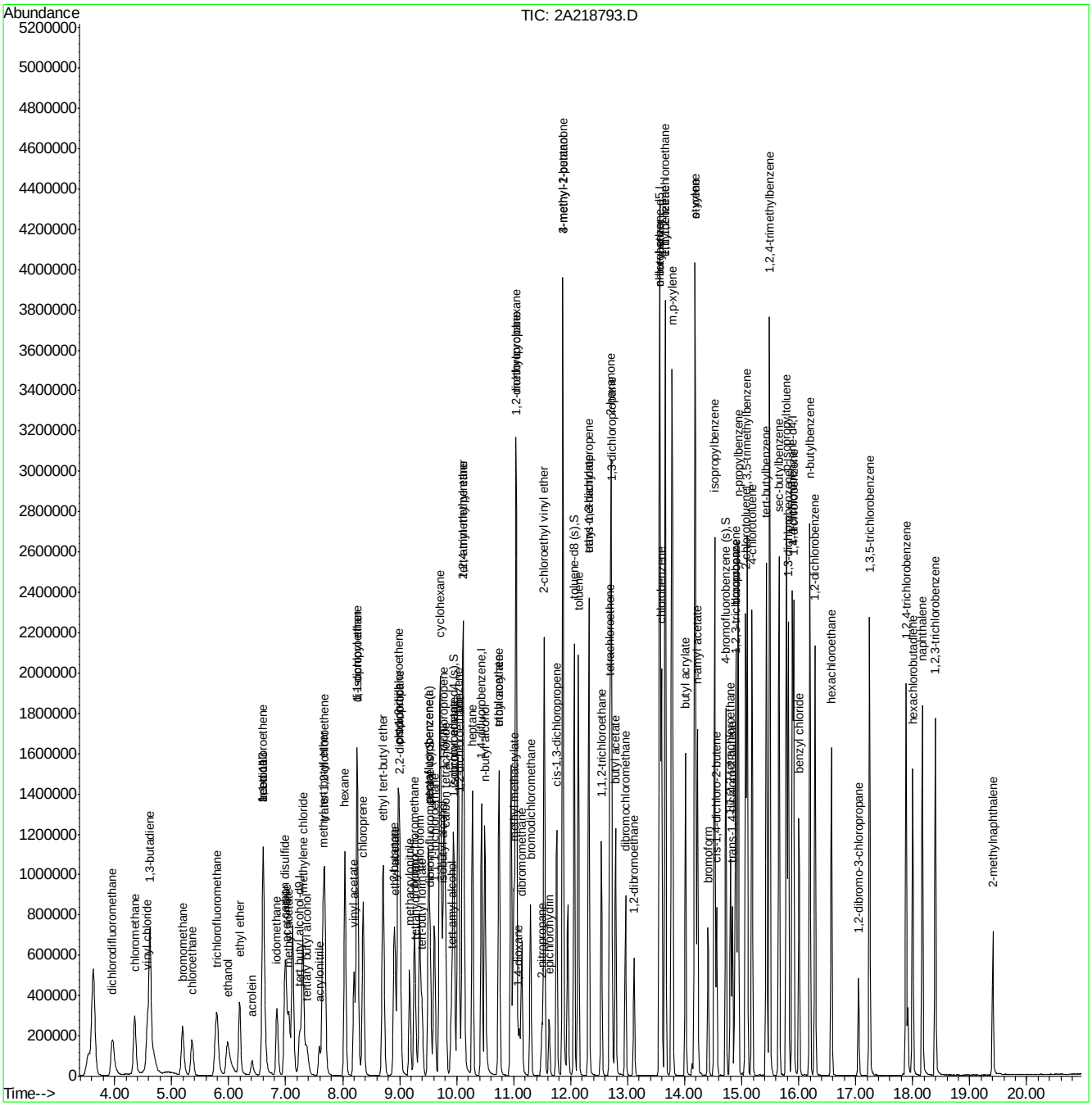
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) n-amyl acetate | 14.22 | 70 | 250835 | 52.14 | ug/L | 96 |
| 92) bromoform | 14.41 | 173 | 300173 | 53.52 | ug/L | 97 |
| 93) butyl acrylate | 14.01 | 55 | 909617 | 55.44 | ug/L | 99 |
| 94) isopropylbenzene | 14.53 | 105 | 1434851 | 50.58 | ug/L | 99 |
| 95) cis-1,4-dichloro-2-butene | 14.56 | 88 | 163957 | 53.69 | ug/L | 98 |
| 98) bromobenzene | 14.90 | 156 | 412082 | 48.20 | ug/L | 99 |
| 99) 1,1,2,2-tetrachloroethane | 14.80 | 83 | 449547 | 49.52 | ug/L | 97 |
| 100) trans-1,4-dichloro-2-buten | 14.83 | 53 | 166056 | 54.94 | ug/L | 97 |
| 101) 1,2,3-trichloropropane | 14.89 | 110 | 118265 | 50.62 | ug/L | 98 |
| 102) n-propylbenzene | 14.94 | 91 | 1712642 | 49.95 | ug/L | 99 |
| 103) 2-chlorotoluene | 15.07 | 126 | 374061 | 50.12 | ug/L | 100 |
| 104) 4-chlorotoluene | 15.18 | 91 | 1084340 | 49.73 | ug/L | 99 |
| 105) 1,3,5-trimethylbenzene | 15.10 | 105 | 1199084 | 50.35 | ug/L | 99 |
| 106) tert-butylbenzene | 15.44 | 119 | 1031793 | 50.01 | ug/L | 99 |
| 107) 1,2,4-trimethylbenzene | 15.49 | 105 | 1213807 | 50.04 | ug/L | 93 |
| 108) sec-butylbenzene | 15.66 | 105 | 1560719 | 50.73 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 15.82 | 146 | 757672 | 49.72 | ug/L | 100 |
| 110) p-isopropyltoluene | 15.79 | 119 | 1321261 | 50.36 | ug/L | 99 |
| 111) benzyl chloride | 16.01 | 91 | 733735 | 49.12 | ug/L | 99 |
| 113) 1,4-dichlorobenzene | 15.91 | 146 | 763183 | 48.16 | ug/L | 99 |
| 114) 1,2-dichlorobenzene | 16.28 | 146 | 741078 | 49.75 | ug/L | 99 |
| 115) n-butylbenzene | 16.19 | 92 | 726411 | 52.06 | ug/L | 99 |
| 116) 1,2-dibromo-3-chloropropan | 17.05 | 157 | 103729 | 52.63 | ug/L | 96 |
| 117) 1,3,5-trichlorobenzene | 17.24 | 180 | 596644 | 51.25 | ug/L | 98 |
| 118) 1,2,4-trichlorobenzene | 17.88 | 180 | 533344 | 53.27 | ug/L | 97 |
| 119) hexachlorobutadiene | 18.00 | 225 | 270904 | 52.58 | ug/L | 98 |
| 120) naphthalene | 18.17 | 128 | 1284545 | 53.85 | ug/L | 100 |
| 121) 1,2,3-trichlorobenzene | 18.40 | 180 | 497058 | 52.73 | ug/L | 100 |
| 122) hexachloroethane | 16.58 | 201 | 239966 | 55.87 | ug/L | 99 |
| 123) 2-methylnaphthalene | 19.41 | 142 | 333601 | 27.44 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218793.D
Acq On : 31 Jul 2022 11:03 pm
Operator : PrashanS
Sample : ICV9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:16:16 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:09:53 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218794.D
Acq On : 31 Jul 2022 11:31 pm
Operator : PrashanS
Sample : ICV9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 02 08:37:05 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

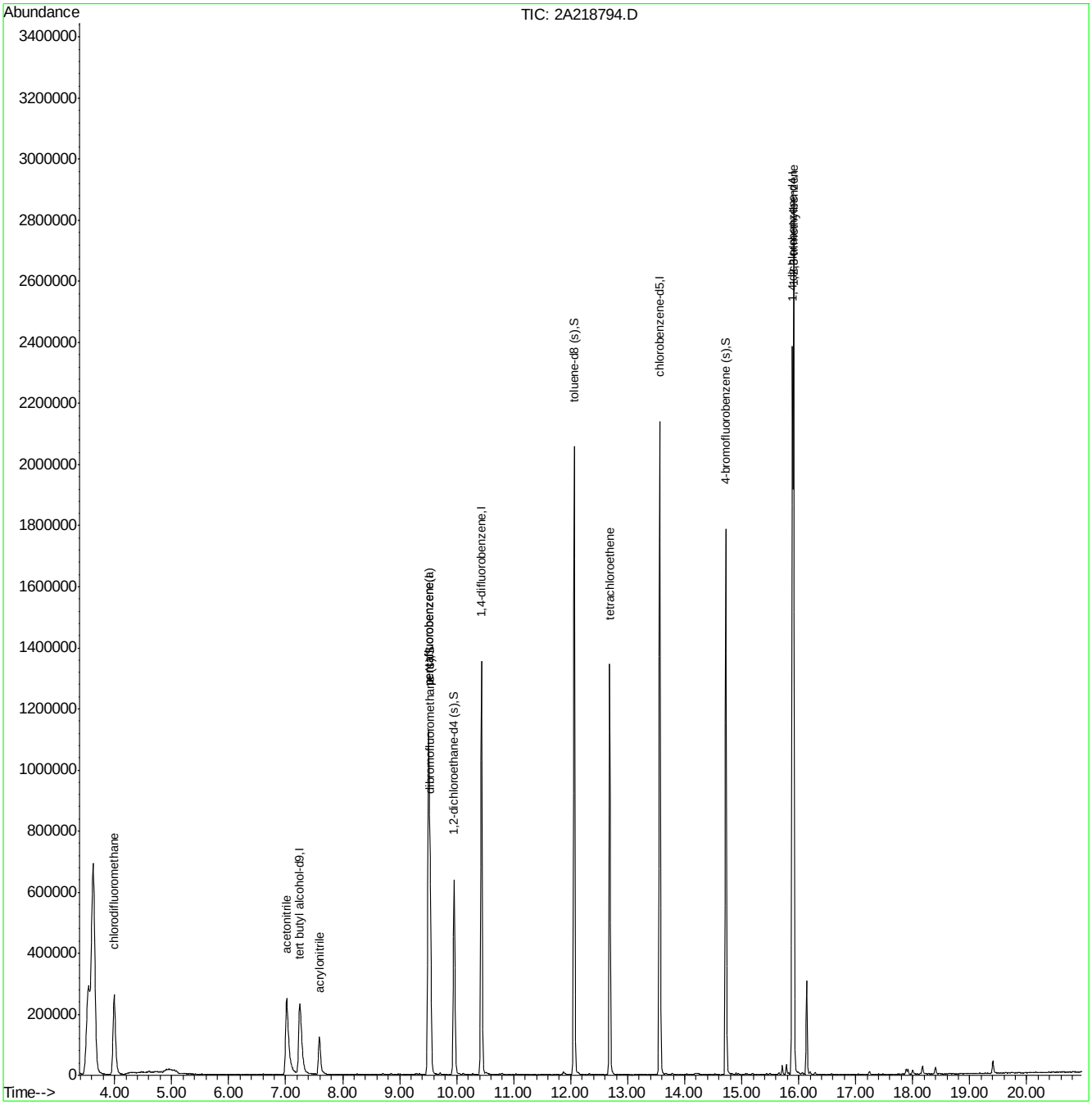
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 7.25 | 65 | 452063 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.51 | 168 | 763795 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.44 | 114 | 1025003 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.56 | 117 | 967016 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.89 | 152 | 523697 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.51 | 168 | 763699 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 43) dibromofluoromethane (s) | 9.54 | 113 | 360126 | 50.09 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.18% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.95 | 65 | 483168 | 50.70 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.40% | | | |
| 73) toluene-d8 (s) | 12.06 | 98 | 1189110 | 50.20 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.40% | | | |
| 97) 4-bromofluorobenzene (s) | 14.72 | 95 | 489954 | 50.57 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.14% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 6) chlorodifluoromethane | 3.99 | 51 | 618028 | 59.34 | ug/L | 96 |
| 19) acetonitrile | 7.02 | 41 | 547161 | 451.50 | ug/L | 98 |
| 32) acrylonitrile | 7.59 | 53 | 132327 | 40.84 | ug/L | 99 |
| 79) tetrachloroethene | 12.68 | 166 | 344120 | 45.00 | ug/L | 98 |
| 112) 1,2,3-trimethylbenzene | 15.91 | 105 | 1281029 | 52.23 | ug/L | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9511\
Data File : 2A218794.D
Acq On : 31 Jul 2022 11:31 pm
Operator : PrashanS
Sample : ICV9511-50
Misc : MS60684,V2A9511,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 02 08:37:05 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220390.d
Acq On : 29 Sep 2022 9:13 am
Operator : nicoleh
Sample : cc9511-20 Inst : GCMS2A
Misc : MS62546,V2A9581,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 29 09:36:25 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 7.240 | 65 | 378078 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 9.511 | 168 | 690934 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 10.433 | 114 | 1042793 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 13.563 | 117 | 969973 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 478807 | 50.00 | ug/L | 0.00 |
| 124) pentafluorobenzene(a) | 9.511 | 168 | 690934 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 9.537 | 113 | 340136 | 52.30 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.60% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.956 | 65 | 411235 | 42.42 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 84.84% | | | |
| 73) toluene-d8 (s) | 12.059 | 98 | 1187189 | 49.96 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.92% | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 487221 | 55.01 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 110.02% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 5.966 | 45 | 121856 | 1322.99 | ug/L | 99 |
| 3) tertiary butyl alcohol | 7.361 | 59 | 93707 | 100.89 | ug/L | 98 |
| 4) 1,4-dioxane | 11.083 | 88 | 21829 | 335.33 | ug/L | 99 |
| 6) chlorodifluoromethane | 3.984 | 51 | 207535 | 22.03 | ug/L | 97 |
| 7) dichlorodifluoromethane | 3.958 | 85 | 181749 | 19.58 | ug/L | 96 |
| 8) chloromethane | 4.346 | 50 | 223771 | 18.64 | ug/L | 98 |
| 9) vinyl chloride | 4.566 | 62 | 177850 | 19.36 | ug/L | 97 |
| 10) 1,3-butadiene | 4.614 | 54 | 164121 | 20.06 | ug/L | 95 |
| 11) bromomethane | 5.190 | 94 | 115149 | 21.26 | ug/L | 99 |
| 12) chloroethane | 5.353 | 64 | 102196 | 23.50 | ug/L | 91 |
| 13) trichlorofluoromethane | 5.783 | 101 | 205221 | 19.94 | ug/L | 96 |
| 14) ethyl ether | 6.186 | 74 | 73635 | 22.46 | ug/L | 95 |
| 15) acrolein | 6.417 | 56 | 24438 | 16.65 | ug/L | 99 |
| 16) freon 113 | 6.611 | 151 | 104574 | 21.38 | ug/L | 95 |
| 17) 1,1-dichloroethene | 6.601 | 96 | 109611 | 21.38 | ug/L | 89 |
| 18) acetone | 6.606 | 43 | 271635 | 102.25 | ug/L | 98 |
| 19) acetonitrile | 7.020 | 41 | 202941 | 185.12 | ug/L | 95 |
| 20) iodomethane | 6.847 | 142 | 211415 | 21.13 | ug/L | 93 |
| 21) carbon disulfide | 6.983 | 76 | 404257 | 23.80 | ug/L | 92 |
| 22) methylene chloride | 7.303 | 84 | 127992 | 21.07 | ug/L | 96 |
| 23) methyl acetate | 7.062 | 43 | 136214 | 20.57 | ug/L | 96 |
| 24) methyl tert butyl ether | 7.655 | 73 | 390998 | 21.39 | ug/L | 94 |
| 25) trans-1,2-dichloroethene | 7.686 | 96 | 124771 | 21.48 | ug/L | 95 |
| 26) hexane | 8.037 | 57 | 243835 | 23.62 | ug/L | 98 |
| 27) di-isopropyl ether | 8.252 | 45 | 583496 | 23.06 | ug/L | 98 |
| 28) ethyl tert-butyl ether | 8.708 | 59 | 506264 | 22.99 | ug/L | 99 |
| 29) 2-butanone | 8.902 | 72 | 69394 | 97.06 | ug/L | 97 |
| 30) 1,1-dichloroethane | 8.257 | 63 | 249366 | 21.95 | ug/L | 98 |
| 31) chloroprene | 8.357 | 53 | 231094 | 21.42 | ug/L | 95 |
| 32) acrylonitrile | 7.586 | 53 | 56032 | 19.12 | ug/L | 96 |
| 33) vinyl acetate | 8.195 | 86 | 26032 | 24.29 | ug/L # | 71 |
| 34) ethyl acetate | 8.923 | 45 | 28642 | 21.58 | ug/L | 95 |
| 35) 2,2-dichloropropane | 8.997 | 77 | 204051 | 22.48 | ug/L | 98 |
| 36) cis-1,2-dichloroethene | 8.965 | 96 | 140224 | 21.94 | ug/L | 96 |
| 37) propionitrile | 8.976 | 54 | 238587 | 218.26 | ug/L | 84 |
| 38) bromochloromethane | 9.259 | 130 | 89352 | 21.03 | ug/L | 85 |
| 39) tetrahydrofuran | 9.280 | 42 | 54722 | 18.05 | ug/L | 94 |
| 40) chloroform | 9.348 | 83 | 242748 | 20.57 | ug/L | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220390.d
Acq On : 29 Sep 2022 9:13 am
Operator : nicoleh
Sample : cc9511-20 Inst : GCMS2A
Misc : MS62546,V2A9581,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 29 09:36:25 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) tert-butyl formate | 9.385 | 59 | 135533 | 23.62 | ug/L | | 97 |
| 42) isobutyl alcohol | 9.746 | 43 | 82653 | 180.69 | ug/L | | 92 |
| 44) methacrylonitrile | 9.175 | 67 | 59780 | 22.02 | ug/L | | 86 |
| 45) 1,1,1-trichloroethane | 9.605 | 97 | 212089 | 20.69 | ug/L | | 98 |
| 46) cyclohexane | 9.715 | 84 | 197808 | 23.10 | ug/L | | 98 |
| 47) 1,1-dichloropropene | 9.773 | 75 | 179450 | 21.74 | ug/L | | 94 |
| 48) tert-amyl alcohol | 9.909 | 73 | 41137 | 89.95 | ug/L | | 89 |
| 49) carbon tetrachloride | 9.804 | 117 | 184732 | 19.97 | ug/L | | 97 |
| 52) 2,2,4-trimethylpentane | 10.119 | 57 | 583346 | 19.90 | ug/L | | 93 |
| 53) tert-amyl methyl ether | 10.103 | 73 | 431831 | 20.10 | ug/L | | 97 |
| 54) n-butyl alcohol | 10.496 | 56 | 222895 | 822.79 | ug/L | | 95 |
| 55) benzene | 10.019 | 78 | 519524 | 21.00 | ug/L | | 96 |
| 56) heptane | 10.281 | 57 | 110259 | 18.44 | ug/L | | 98 |
| 57) isopropyl acetate | 9.941 | 87 | 29891 | 19.25 | ug/L | # | 91 |
| 58) 1,2-dichloroethane | 10.045 | 62 | 216831 | 18.65 | ug/L | | 98 |
| 59) trichloroethene | 10.748 | 95 | 139424 | 19.71 | ug/L | | 95 |
| 60) ethyl acrylate | 10.737 | 55 | 230357 | 20.51 | ug/L | | 99 |
| 61) 2-nitropropane | 11.503 | 41 | 46560 | 15.77 | ug/L | | 98 |
| 62) 2-chloroethyl vinyl ether | 11.540 | 63 | 46841 | 20.39 | ug/L | | 97 |
| 63) methyl methacrylate | 11.005 | 100 | 36816 | 20.76 | ug/L | # | 87 |
| 64) 1,2-dichloropropane | 11.031 | 63 | 151202 | 20.60 | ug/L | | 95 |
| 65) methylcyclohexane | 11.042 | 83 | 224834 | 19.42 | ug/L | | 96 |
| 66) dibromomethane | 11.141 | 93 | 88525 | 18.37 | ug/L | | 91 |
| 67) bromodichloromethane | 11.298 | 83 | 192398 | 19.29 | ug/L | | 99 |
| 68) epichlorohydrin | 11.624 | 57 | 73321 | 83.68 | ug/L | | 98 |
| 69) cis-1,3-dichloropropene | 11.755 | 75 | 226793 | 20.77 | ug/L | | 88 |
| 70) 4-methyl-2-pentanone | 11.859 | 58 | 268206 | 77.48 | ug/L | | 100 |
| 71) 3-methyl-1-butanol | 11.870 | 70 | 71085 | 332.95 | ug/L | | 96 |
| 74) toluene | 12.132 | 92 | 310441 | 20.15 | ug/L | | 94 |
| 75) trans-1,3-dichloropropene | 12.321 | 75 | 200064 | 19.59 | ug/L | | 99 |
| 76) ethyl methacrylate | 12.316 | 69 | 190809 | 21.76 | ug/L | | 93 |
| 77) 1,1,2-trichloroethane | 12.541 | 83 | 106664 | 20.13 | ug/L | | 98 |
| 78) 2-hexanone | 12.709 | 58 | 260560 | 80.83 | ug/L | | 98 |
| 79) tetrachloroethene | 12.688 | 166 | 150856 | 19.67 | ug/L | | 96 |
| 80) 1,3-dichloropropane | 12.719 | 76 | 198822 | 19.56 | ug/L | | 99 |
| 81) butyl acetate | 12.787 | 56 | 112803 | 20.37 | ug/L | | 99 |
| 82) dibromochloromethane | 12.960 | 129 | 145548 | 18.83 | ug/L | | 98 |
| 83) 1,2-dibromoethane | 13.113 | 107 | 125193 | 19.08 | ug/L | | 92 |
| 84) n-butyl ether | 13.563 | 57 | 599153 | 19.63 | ug/L | | 97 |
| 85) chlorobenzene | 13.595 | 112 | 342566 | 20.39 | ug/L | | 95 |
| 86) 1,1,1,2-tetrachloroethane | 13.658 | 131 | 129310 | 19.13 | ug/L | | 99 |
| 87) ethylbenzene | 13.658 | 91 | 576976 | 19.97 | ug/L | | 94 |
| 88) m,p-xylene | 13.778 | 106 | 420873 | 37.48 | ug/L | | 85 |
| 89) o-xylene | 14.177 | 91 | 457346 | 19.39 | ug/L | | 94 |
| 90) styrene | 14.187 | 104 | 338672 | 18.53 | ug/L | | 98 |
| 91) n-amyl acetate | 14.224 | 70 | 88625 | 18.58 | ug/L | | 96 |
| 92) bromoform | 14.408 | 173 | 99654 | 17.92 | ug/L | | 93 |
| 93) butyl acrylate | 14.014 | 55 | 328608 | 20.20 | ug/L | | 97 |
| 94) isopropylbenzene | 14.523 | 105 | 529884 | 18.84 | ug/L | | 97 |
| 95) cis-1,4-dichloro-2-butene | 14.560 | 88 | 22378 | 7.39 | ug/L | | 83 |
| 98) bromobenzene | 14.900 | 156 | 146511 | 19.12 | ug/L | | 91 |
| 99) 1,1,2,2-tetrachloroethane | 14.801 | 83 | 156236 | 19.20 | ug/L | | 98 |
| 100) trans-1,4-dichloro-2-b... | 14.832 | 53 | 20882 | 7.71 | ug/L | | 97 |
| 101) 1,2,3-trichloropropane | 14.885 | 110 | 37903 | 18.10 | ug/L | | 94 |
| 102) n-propylbenzene | 14.937 | 91 | 653613 | 21.27 | ug/L | | 94 |
| 103) 2-chlorotoluene | 15.068 | 126 | 132322 | 19.78 | ug/L | | 93 |
| 104) 4-chlorotoluene | 15.178 | 91 | 404367 | 20.69 | ug/L | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220390.d
Acq On : 29 Sep 2022 9:13 am
Operator : nicoleh
Sample : cc9511-20 Inst : GCMS2A
Misc : MS62546,V2A9581,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 29 09:36:25 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

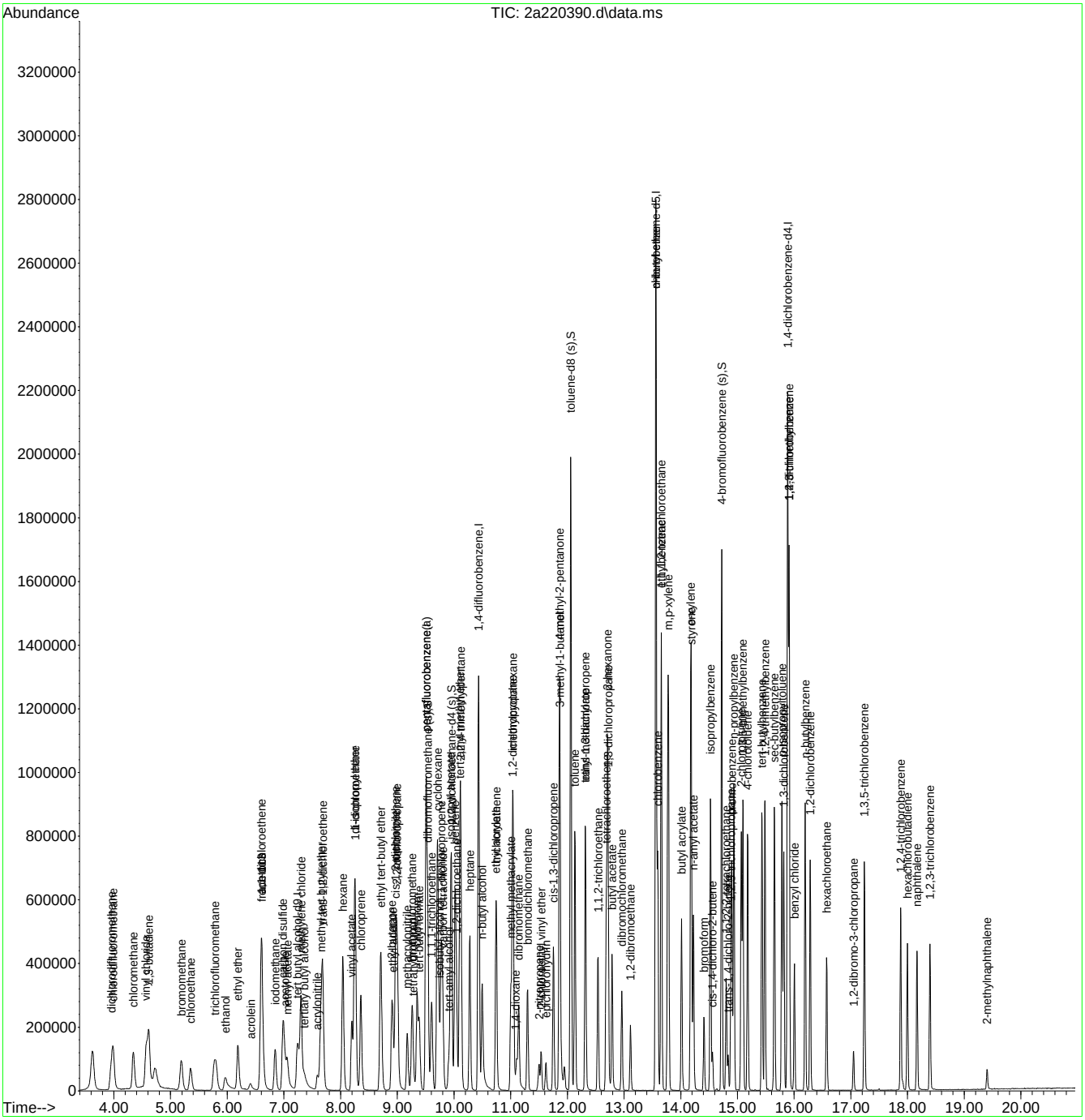
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 105) 1,3,5-trimethylbenzene | 15.094 | 105 | 432603 | 20.27 | ug/L | 96 |
| 106) tert-butylbenzene | 15.430 | 119 | 367632 | 19.88 | ug/L | 98 |
| 107) 1,2,4-trimethylbenzene | 15.488 | 105 | 439652 | 20.22 | ug/L | 97 |
| 108) sec-butylbenzene | 15.650 | 105 | 545331 | 19.78 | ug/L | 97 |
| 109) 1,3-dichlorobenzene | 15.818 | 146 | 263600 | 19.30 | ug/L | 97 |
| 110) p-isopropyltoluene | 15.786 | 119 | 461719 | 19.64 | ug/L | 98 |
| 111) benzyl chloride | 16.007 | 91 | 237212 | 17.72 | ug/L | 98 |
| 112) 1,2,3-trimethylbenzene | 15.912 | 105 | 444112 | 19.81 | ug/L | 95 |
| 113) 1,4-dichlorobenzene | 15.912 | 146 | 263853 | 18.58 | ug/L | 96 |
| 114) 1,2-dichlorobenzene | 16.285 | 146 | 255354 | 19.13 | ug/L | 98 |
| 115) n-butylbenzene | 16.195 | 92 | 240461 | 19.23 | ug/L | 97 |
| 116) 1,2-dibromo-3-chloropr... | 17.050 | 157 | 28780 | 16.29 | ug/L | 93 |
| 117) 1,3,5-trichlorobenzene | 17.239 | 180 | 202929 | 19.45 | ug/L | 99 |
| 118) 1,2,4-trichlorobenzene | 17.884 | 180 | 165987 | 18.50 | ug/L | 100 |
| 119) hexachlorobutadiene | 17.999 | 225 | 88129 | 19.08 | ug/L | 97 |
| 120) naphthalene | 18.167 | 128 | 307990 | 14.40 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 18.398 | 180 | 139076 | 16.46 | ug/L | 95 |
| 122) hexachloroethane | 16.573 | 201 | 62299 | 16.18 | ug/L | 100 |
| 123) 2-methylnaphthalene | 19.404 | 142 | 31017 | 2.85 | ug/L | 96 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\october 2022\10022022\v2a9581\
Data File : 2a220390.d
Acq On : 29 Sep 2022 9:13 am
Operator : nicoleh
Sample : cc9511-20 Inst : GCMS2A
Misc : MS62546,V2A9581,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 29 09:36:25 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220438.d
Acq On : 30 Sep 2022 9:16 am
Operator : nicoleh
Sample : cc9511-20 Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 30 09:39:38 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) tert butyl alcohol-d9 | 7.251 | 65 | 497683 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 9.511 | 168 | 738209 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 10.439 | 114 | 1143253 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 13.564 | 117 | 1159557 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 15.886 | 152 | 591306 | 50.00 | ug/L | | 0.00 |
| 124) pentafluorobenzene(a) | 9.511 | 168 | 737254 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 43) dibromofluoromethane (s) | 9.542 | 113 | 381579 | 54.91 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 109.82% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 9.956 | 65 | 436108 | 41.03 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 82.06% | | | | |
| 73) toluene-d8 (s) | 12.064 | 98 | 1327851 | 46.75 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.50% | | | | |
| 97) 4-bromofluorobenzene (s) | 14.722 | 95 | 584343 | 53.42 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.84% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 5.972 | 45 | 172972 | 1426.64 | ug/L | | 96 |
| 3) tertiary butyl alcohol | 7.366 | 59 | 116333 | 95.15 | ug/L | | 90 |
| 4) 1,4-dioxane | 11.084 | 88 | 36804 | 429.50 | ug/L | | 78 |
| 6) chlorodifluoromethane | 3.995 | 51 | 115418 | 11.47 | ug/L | | 100 |
| 7) dichlorodifluoromethane | 3.964 | 85 | 198520 | 20.02 | ug/L | | 96 |
| 8) chloromethane | 4.352 | 50 | 249210 | 19.42 | ug/L | | 99 |
| 9) vinyl chloride | 4.577 | 62 | 204942 | 20.88 | ug/L | | 95 |
| 10) 1,3-butadiene | 4.619 | 54 | 93826 | 10.73 | ug/L | | 97 |
| 11) bromomethane | 5.196 | 94 | 137899 | 23.83 | ug/L | | 100 |
| 12) chloroethane | 5.358 | 64 | 118650 | 25.54 | ug/L | | 86 |
| 13) trichlorofluoromethane | 5.794 | 101 | 250330 | 22.77 | ug/L | | 91 |
| 14) ethyl ether | 6.192 | 74 | 77127 | 22.02 | ug/L | | 96 |
| 15) acrolein | 6.417 | 56 | 35866 | 22.88 | ug/L | | 94 |
| 16) freon 113 | 6.617 | 151 | 110060 | 21.06 | ug/L | | 98 |
| 17) 1,1-dichloroethene | 6.606 | 96 | 108211 | 19.76 | ug/L | | 94 |
| 18) acetone | 6.611 | 43 | 223753 | 78.83 | ug/L | | 94 |
| 19) acetonitrile | 7.026 | 41 | 244299 | 208.58 | ug/L | | 96 |
| 20) iodomethane | 6.853 | 142 | 218455 | 20.44 | ug/L | | 89 |
| 21) carbon disulfide | 6.989 | 76 | 364135 | 20.07 | ug/L | | 91 |
| 22) methylene chloride | 7.303 | 84 | 142458 | 21.95 | ug/L | | 98 |
| 23) methyl acetate | 7.062 | 43 | 146722 | 20.74 | ug/L | | 99 |
| 24) methyl tert butyl ether | 7.660 | 73 | 429210 | 21.98 | ug/L | | 97 |
| 25) trans-1,2-dichloroethene | 7.691 | 96 | 133220 | 21.46 | ug/L | | 98 |
| 26) hexane | 8.043 | 57 | 238414 | 21.61 | ug/L | | 98 |
| 27) di-isopropyl ether | 8.252 | 45 | 632745 | 23.40 | ug/L | | 97 |
| 28) ethyl tert-butyl ether | 8.714 | 59 | 556359 | 23.64 | ug/L | | 98 |
| 29) 2-butanone | 8.908 | 72 | 71685 | 93.84 | ug/L | | 97 |
| 30) 1,1-dichloroethane | 8.258 | 63 | 269516 | 22.21 | ug/L | | 98 |
| 31) chloroprene | 8.363 | 53 | 237862 | 20.64 | ug/L | | 96 |
| 32) acrylonitrile | 7.597 | 53 | 68650 | 21.92 | ug/L | | 96 |
| 33) vinyl acetate | 8.200 | 86 | 30265 | 26.44 | ug/L | # | 80 |
| 34) ethyl acetate | 8.924 | 45 | 32156 | 22.67 | ug/L | | 95 |
| 35) 2,2-dichloropropane | 9.002 | 77 | 223316 | 23.02 | ug/L | | 98 |
| 36) cis-1,2-dichloroethene | 8.971 | 96 | 157733 | 23.10 | ug/L | | 95 |
| 37) propionitrile | 8.981 | 54 | 273696 | 234.35 | ug/L | | 84 |
| 38) bromochloromethane | 9.264 | 130 | 103267 | 22.75 | ug/L | | 96 |
| 39) tetrahydrofuran | 9.285 | 42 | 62207 | 19.21 | ug/L | | 97 |
| 40) chloroform | 9.354 | 83 | 267456 | 21.21 | ug/L | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220438.d
Acq On : 30 Sep 2022 9:16 am
Operator : nicoleh
Sample : cc9511-20 Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 30 09:39:38 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) tert-butyl formate | 9.390 | 59 | 136643 | 22.28 | ug/L | | 95 |
| 42) isobutyl alcohol | 9.752 | 43 | 96664 | 197.78 | ug/L | | 91 |
| 44) methacrylonitrile | 9.181 | 67 | 68148 | 23.49 | ug/L | | 91 |
| 45) 1,1,1-trichloroethane | 9.610 | 97 | 231146 | 21.11 | ug/L | | 96 |
| 46) cyclohexane | 9.721 | 84 | 234619 | 25.64 | ug/L | | 89 |
| 47) 1,1-dichloropropene | 9.778 | 75 | 193612 | 21.96 | ug/L | | 96 |
| 48) tert-amyl alcohol | 9.909 | 73 | 50278 | 102.89 | ug/L | | 86 |
| 49) carbon tetrachloride | 9.804 | 117 | 205811 | 20.82 | ug/L | | 98 |
| 52) 2,2,4-trimethylpentane | 10.119 | 57 | 613691 | 19.10 | ug/L | | 96 |
| 53) tert-amyl methyl ether | 10.109 | 73 | 482805 | 20.50 | ug/L | | 98 |
| 54) n-butyl alcohol | 10.502 | 56 | 288647 | 971.87 | ug/L | | 90 |
| 55) benzene | 10.025 | 78 | 566694 | 20.89 | ug/L | | 98 |
| 56) heptane | 10.282 | 57 | 113129 | 17.26 | ug/L | | 95 |
| 57) isopropyl acetate | 9.946 | 87 | 34298 | 20.15 | ug/L | # | 79 |
| 58) 1,2-dichloroethane | 10.046 | 62 | 242880 | 19.06 | ug/L | | 99 |
| 59) trichloroethene | 10.748 | 95 | 154028 | 19.86 | ug/L | | 97 |
| 60) ethyl acrylate | 10.743 | 55 | 254102 | 20.63 | ug/L | | 99 |
| 61) 2-nitropropane | 11.503 | 41 | 49341 | 15.24 | ug/L | | 93 |
| 62) 2-chloroethyl vinyl ether | 11.540 | 63 | 117298 | 36.85 | ug/L | | 98 |
| 63) methyl methacrylate | 11.005 | 100 | 41196 | 21.19 | ug/L | # | 83 |
| 64) 1,2-dichloropropane | 11.037 | 63 | 170094 | 21.14 | ug/L | | 96 |
| 65) methylcyclohexane | 11.047 | 83 | 238403 | 18.79 | ug/L | | 99 |
| 66) dibromomethane | 11.141 | 93 | 103719 | 19.63 | ug/L | | 93 |
| 67) bromodichloromethane | 11.299 | 83 | 214250 | 19.59 | ug/L | | 97 |
| 68) epichlorohydrin | 11.624 | 57 | 92403 | 96.20 | ug/L | | 99 |
| 69) cis-1,3-dichloropropene | 11.755 | 75 | 257186 | 21.48 | ug/L | | 87 |
| 70) 4-methyl-2-pentanone | 11.865 | 58 | 304407 | 80.21 | ug/L | | 99 |
| 71) 3-methyl-1-butanol | 11.875 | 70 | 90396 | 386.20 | ug/L | # | 84 |
| 74) toluene | 12.138 | 92 | 353451 | 19.19 | ug/L | | 94 |
| 75) trans-1,3-dichloropropene | 12.321 | 75 | 235119 | 19.26 | ug/L | | 98 |
| 76) ethyl methacrylate | 12.321 | 69 | 212287 | 20.25 | ug/L | | 88 |
| 77) 1,1,2-trichloroethane | 12.541 | 83 | 122288 | 19.31 | ug/L | | 98 |
| 78) 2-hexanone | 12.709 | 58 | 284615 | 73.86 | ug/L | | 92 |
| 79) tetrachloroethene | 12.688 | 166 | 172808 | 18.84 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 12.720 | 76 | 227397 | 18.71 | ug/L | | 98 |
| 81) butyl acetate | 12.788 | 56 | 125846 | 19.01 | ug/L | | 96 |
| 82) dibromochloromethane | 12.961 | 129 | 170896 | 18.49 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 13.113 | 107 | 146263 | 18.65 | ug/L | | 91 |
| 84) n-butyl ether | 13.564 | 57 | 659691 | 18.08 | ug/L | | 99 |
| 85) chlorobenzene | 13.595 | 112 | 387213 | 19.28 | ug/L | | 96 |
| 86) 1,1,1,2-tetrachloroethane | 13.658 | 131 | 149412 | 18.49 | ug/L | | 95 |
| 87) ethylbenzene | 13.658 | 91 | 641108 | 18.56 | ug/L | | 94 |
| 88) m,p-xylene | 13.779 | 106 | 477393 | 35.56 | ug/L | | 90 |
| 89) o-xylene | 14.177 | 91 | 524989 | 18.62 | ug/L | | 92 |
| 90) styrene | 14.193 | 104 | 392586 | 17.97 | ug/L | | 95 |
| 91) n-amyl acetate | 14.224 | 70 | 99364 | 17.43 | ug/L | | 97 |
| 92) bromoform | 14.413 | 173 | 121397 | 18.27 | ug/L | | 95 |
| 93) butyl acrylate | 14.015 | 55 | 355999 | 18.31 | ug/L | | 98 |
| 94) isopropylbenzene | 14.528 | 105 | 592985 | 17.64 | ug/L | | 97 |
| 95) cis-1,4-dichloro-2-butene | 14.565 | 88 | 45598 | 12.60 | ug/L | | 91 |
| 98) bromobenzene | 14.906 | 156 | 175135 | 18.51 | ug/L | | 92 |
| 99) 1,1,2,2-tetrachloroethane | 14.806 | 83 | 184110 | 18.32 | ug/L | | 98 |
| 100) trans-1,4-dichloro-2-b... | 14.838 | 53 | 41837 | 12.51 | ug/L | | 90 |
| 101) 1,2,3-trichloropropane | 14.890 | 110 | 44978 | 17.39 | ug/L | | 94 |
| 102) n-propylbenzene | 14.943 | 91 | 727995 | 19.18 | ug/L | | 97 |
| 103) 2-chlorotoluene | 15.068 | 126 | 152362 | 18.44 | ug/L | | 86 |
| 104) 4-chlorotoluene | 15.184 | 91 | 457522 | 18.95 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220438.d
Acq On : 30 Sep 2022 9:16 am
Operator : nicoleh
Sample : cc9511-20 Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 30 09:39:38 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration

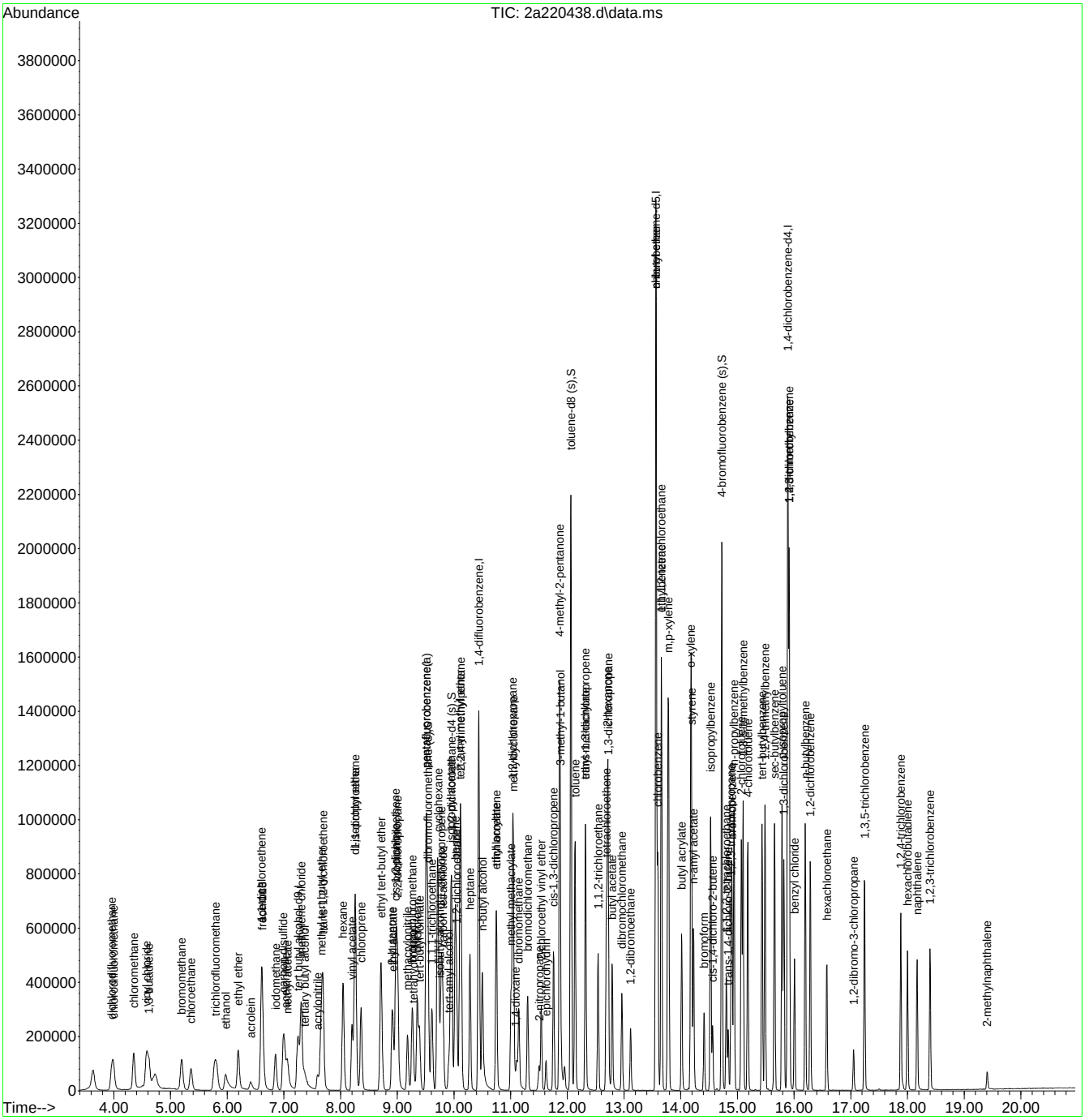
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 105) 1,3,5-trimethylbenzene | 15.100 | 105 | 490880 | 18.62 | ug/L | 100 |
| 106) tert-butylbenzene | 15.435 | 119 | 416821 | 18.25 | ug/L | 96 |
| 107) 1,2,4-trimethylbenzene | 15.488 | 105 | 494168 | 18.40 | ug/L | 99 |
| 108) sec-butylbenzene | 15.656 | 105 | 609524 | 17.90 | ug/L | 98 |
| 109) 1,3-dichlorobenzene | 15.818 | 146 | 310950 | 18.43 | ug/L | 97 |
| 110) p-isopropyltoluene | 15.787 | 119 | 521707 | 17.97 | ug/L | 97 |
| 111) benzyl chloride | 16.007 | 91 | 287869 | 17.41 | ug/L | 99 |
| 112) 1,2,3-trimethylbenzene | 15.913 | 105 | 507272 | 18.32 | ug/L | 96 |
| 113) 1,4-dichlorobenzene | 15.913 | 146 | 306685 | 17.48 | ug/L | 98 |
| 114) 1,2-dichlorobenzene | 16.285 | 146 | 300386 | 18.22 | ug/L | 97 |
| 115) n-butylbenzene | 16.196 | 92 | 260529 | 16.87 | ug/L | 93 |
| 116) 1,2-dibromo-3-chloropr... | 17.050 | 157 | 34979 | 16.03 | ug/L | 92 |
| 117) 1,3,5-trichlorobenzene | 17.244 | 180 | 232418 | 18.04 | ug/L | 97 |
| 118) 1,2,4-trichlorobenzene | 17.884 | 180 | 189867 | 17.13 | ug/L | 97 |
| 119) hexachlorobutadiene | 17.999 | 225 | 100854 | 17.68 | ug/L | 95 |
| 120) naphthalene | 18.172 | 128 | 348439 | 13.20 | ug/L | 98 |
| 121) 1,2,3-trichlorobenzene | 18.398 | 180 | 159772 | 15.31 | ug/L | 98 |
| 122) hexachloroethane | 16.578 | 201 | 73722 | 15.51 | ug/L | 96 |
| 123) 2-methylnaphthalene | 19.404 | 142 | 32793 | 2.44 | ug/L | 93 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\v2a9583\
Data File : 2a220438.d
Acq On : 30 Sep 2022 9:16 am
Operator : nicoleh
Sample : cc9511-20 Inst : GCMS2A
Misc : MS62539,V2A9583,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9511.M
Quant Results File: M2A9511.RES
Quant Time: Sep 30 09:39:38 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Mon Aug 01 15:13:00 2022
QLast Update : Mon Aug 01 15:13:00 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92138.D
Acq On : 11 Sep 2022 3:36 pm
Operator : PrashanS
Sample : IC3747-0.2
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 11:37:39 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 10:49:33 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.311 | 65 | 282321 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.281 | 168 | 409542 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 539700 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 5.735 | 117 | 503605 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.501 | 152 | 226518 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 42) dibromofluoromethane (s) | 3.286 | 113 | 201983 | 49.16 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.32% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.491 | 65 | 186305 | 48.02 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 96.04% | | | | |
| 73) toluene-d8 (s) | 4.691 | 98 | 622001 | 51.09 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.18% | | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 199399 | 48.94 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.88% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 3) tertiary butyl alcohol | 2.358 | 59 | 879 | 1.06 | ug/L | | 82 |
| 9) vinyl chloride | 1.440 | 62 | 1161 | 0.22 | ug/L | | 89 |
| 12) trichlorofluoromethane | 1.818 | 101 | 1398 | 0.16 | ug/L | | 87 |
| 14) ethyl ether | 1.944 | 74 | 318 | 0.16 | ug/L | | 84 |
| 16) freon 113 | 2.091 | 151 | 681 | 0.21 | ug/L | # | 76 |
| 17) 1,1-dichloroethene | 2.085 | 61 | 944 | 0.19 | ug/L | # | 80 |
| 18) acetone | 2.091 | 58 | 424 | 0.87 | ug/L | # | 85 |
| 24) methyl tert butyl ether | 2.468 | 73 | 1846 | 0.18 | ug/L | | 84 |
| 25) trans-1,2-dichloroethene | 2.484 | 96 | 699 | 0.20 | ug/L | | 85 |
| 26) hexane | 2.620 | 56 | 405 | 0.21 | ug/L | # | 72 |
| 27) di-isopropyl ether | 2.709 | 45 | 1877 | 0.19 | ug/L | | 74 |
| 28) ethyl tert-butyl ether | 2.909 | 59 | 2008 | 0.20 | ug/L | | 97 |
| 29) 1,1-dichloroethane | 2.709 | 63 | 1093 | 0.18 | ug/L | | 77 |
| 30) chloroprene | 2.756 | 53 | 757 | 0.17 | ug/L | | 81 |
| 34) 2-butanone | 3.003 | 72 | 425 | 0.58 | ug/L | # | 85 |
| 35) 2,2-dichloropropane | 3.029 | 77 | 1032 | 0.20 | ug/L | | 76 |
| 36) cis-1,2-dichloroethene | 3.024 | 96 | 640 | 0.15 | ug/L | | 96 |
| 37) propionitrile | 3.034 | 54 | 1607 | 1.99 | ug/L | | 95 |
| 39) bromochloromethane | 3.155 | 128 | 343 | 0.16 | ug/L | | 90 |
| 44) 1,1,1-trichloroethane | 3.312 | 97 | 1165 | 0.19 | ug/L | # | 26 |
| 45) cyclohexane | 3.370 | 84 | 937 | 0.20 | ug/L | # | 90 |
| 46) 1,1-dichloropropene | 3.401 | 75 | 903 | 0.19 | ug/L | # | 53 |
| 47) carbon tetrachloride | 3.407 | 119 | 1094 | 0.19 | ug/L | # | 72 |
| 53) benzene | 3.522 | 78 | 2649 | 0.21 | ug/L | | 93 |
| 54) tert-amyl methyl ether | 3.574 | 73 | 1968 | 0.20 | ug/L | | 90 |
| 55) iso-octane | 3.569 | 57 | 1272 | 0.19 | ug/L | | 89 |
| 59) trichloroethene | 3.910 | 95 | 787 | 0.21 | ug/L | | 100 |
| 62) 2-chloroethyl vinyl ether | 4.387 | 63 | 1673 | 0.77 | ug/L | | 96 |
| 65) methylcyclohexane | 4.062 | 83 | 931 | 0.20 | ug/L | # | 67 |
| 66) dibromomethane | 4.120 | 93 | 622 | 0.22 | ug/L | | 87 |
| 67) bromodichloromethane | 4.219 | 83 | 1162 | 0.23 | ug/L | | 72 |
| 69) cis-1,3-dichloropropene | 4.502 | 75 | 970 | 0.18 | ug/L | | 78 |
| 70) 4-methyl-2-pentanone | 4.581 | 58 | 1325 | 0.64 | ug/L | | 89 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92138.D
Acq On : 11 Sep 2022 3:36 pm
Operator : PrashanS
Sample : IC3747-0.2
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 11:37:39 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 10:49:33 2022
Response via : Initial Calibration

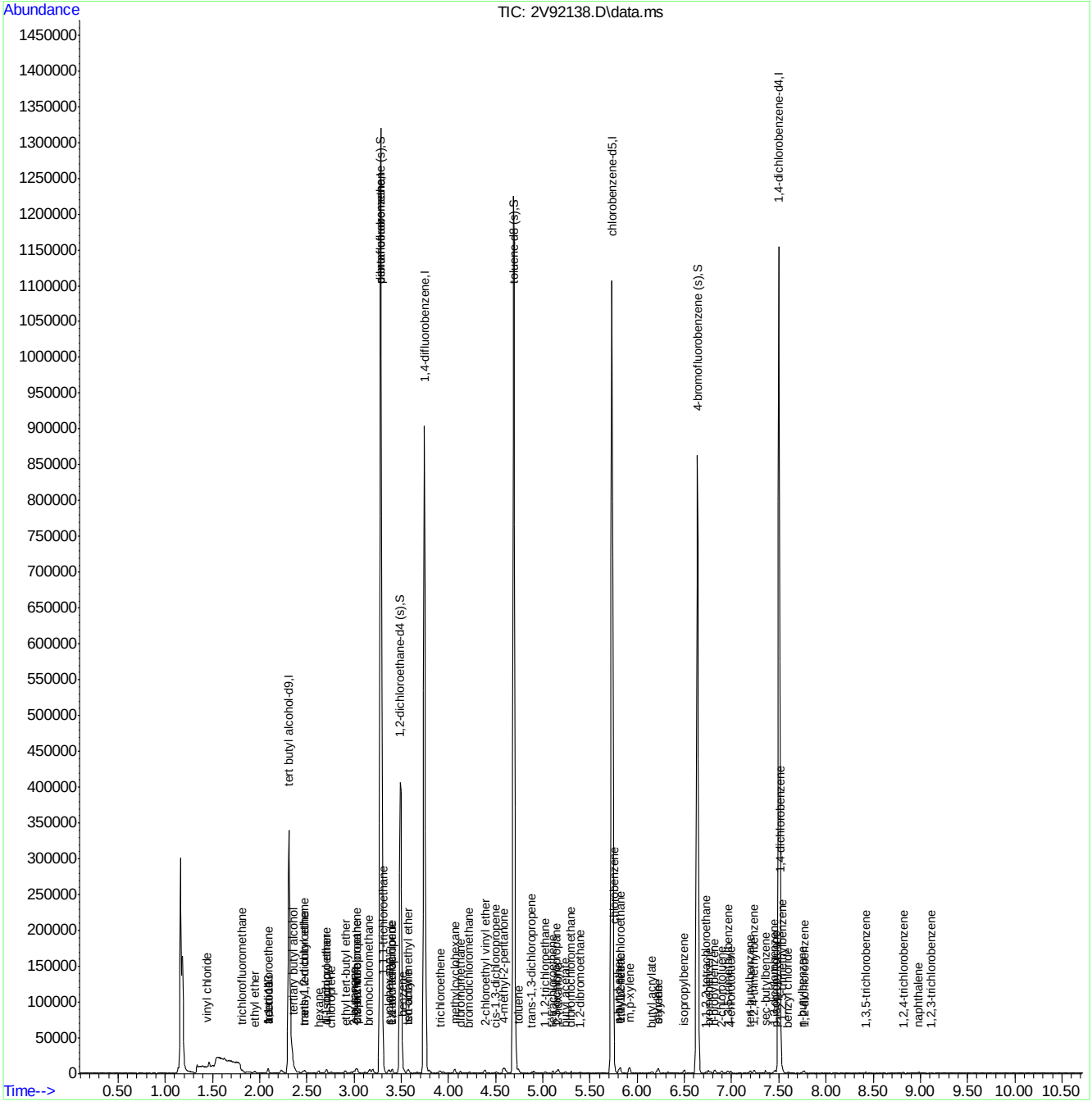
| Internal Standards | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 74) toluene | 4.744 | 92 | 1872 | 0.23 ug/L | # | 80 |
| 76) trans-1,3-dichloropropene | 4.880 | 75 | 865 | 0.17 ug/L | # | 63 |
| 77) 1,1,2-trichloroethane | 5.027 | 83 | 466 | 0.16 ug/L | | 88 |
| 78) 2-hexanone | 5.168 | 58 | 1509 | 0.70 ug/L | | 95 |
| 79) tetrachloroethene | 5.111 | 164 | 635 | 0.20 ug/L | | 84 |
| 80) 1,3-dichloropropane | 5.137 | 76 | 1068 | 0.20 ug/L | | 91 |
| 81) butyl acetate | 5.242 | 56 | 536 | 0.20 ug/L | # | 56 |
| 82) dibromochloromethane | 5.299 | 129 | 895 | 0.19 ug/L | | 82 |
| 83) 1,2-dibromoethane | 5.399 | 107 | 865 | 0.21 ug/L | | 82 |
| 84) n-butyl ether | 5.803 | 57 | 2211 | 0.18 ug/L | | 92 |
| 85) chlorobenzene | 5.755 | 112 | 2027 | 0.21 ug/L | | 76 |
| 86) 1,1,1,2-tetrachloroethane | 5.818 | 131 | 686 | 0.16 ug/L | | 91 |
| 87) ethylbenzene | 5.824 | 91 | 3326 | 0.21 ug/L | | 94 |
| 88) m,p-xylene | 5.918 | 106 | 2511 | 0.41 ug/L | | 100 |
| 89) o-xylene | 6.217 | 91 | 2485 | 0.20 ug/L | | 84 |
| 90) styrene | 6.227 | 104 | 1842 | 0.18 ug/L | | 98 |
| 91) butyl acrylate | 6.159 | 56 | 496 | 0.16 ug/L | # | 72 |
| 94) isopropylbenzene | 6.500 | 105 | 2978 | 0.21 ug/L | | 92 |
| 98) bromobenzene | 6.752 | 156 | 845 | 0.18 ug/L | | 93 |
| 99) 1,1,2,2-tetrachloroethane | 6.731 | 83 | 1087 | 0.20 ug/L | | 92 |
| 102) n-propylbenzene | 6.820 | 91 | 3285 | 0.20 ug/L | | 94 |
| 103) 2-chlorotoluene | 6.893 | 126 | 633 | 0.17 ug/L | # | 81 |
| 104) 4-chlorotoluene | 6.993 | 126 | 698 | 0.18 ug/L | # | 56 |
| 105) 1,3,5-trimethylbenzene | 6.956 | 105 | 1974 | 0.18 ug/L | | 88 |
| 106) tert-butylbenzene | 7.197 | 119 | 1698 | 0.18 ug/L | | 95 |
| 107) 1,2,4-trimethylbenzene | 7.245 | 105 | 2606 | 0.23 ug/L | | 74 |
| 108) sec-butylbenzene | 7.360 | 105 | 2411 | 0.19 ug/L | | 78 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 1501 | 0.20 ug/L | | 98 |
| 110) p-isopropyltoluene | 7.470 | 119 | 2102 | 0.19 ug/L | | 86 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 2264 | 0.20 ug/L | | 95 |
| 112) 1,4-dichlorobenzene | 7.522 | 146 | 1679 | 0.22 ug/L | | 78 |
| 113) 1,2-dichlorobenzene | 7.769 | 146 | 1237 | 0.18 ug/L | | 84 |
| 114) benzyl chloride | 7.601 | 91 | 1274 | 0.16 ug/L | | 89 |
| 115) n-butylbenzene | 7.753 | 92 | 907 | 0.19 ug/L | # | 76 |
| 118) 1,3,5-trichlorobenzene | 8.424 | 180 | 676 | 0.17 ug/L | # | 80 |
| 119) 1,2,4-trichlorobenzene | 8.817 | 180 | 610 | 0.17 ug/L | | 81 |
| 121) naphthalene | 8.985 | 128 | 2095 | 0.18 ug/L | | 83 |
| 122) 1,2,3-trichlorobenzene | 9.111 | 180 | 449 | 0.14 ug/L | | 87 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92138.D
Acq On : 11 Sep 2022 3:36 pm
Operator : PrashanS
Sample : IC3747-0.2
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 12 11:37:39 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 10:49:33 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92140.D
Acq On : 11 Sep 2022 4:05 pm
Operator : PrashanS
Sample : IC3747-0.5
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 11:00:31 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 10:55:49 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.311 | 65 | 277633 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 412430 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 3.748 | 114 | 550671 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 5.735 | 117 | 501246 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.502 | 152 | 221756 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 42) dibromofluoromethane (s) | 3.286 | 113 | 204153 | 49.76 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.52% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.496 | 65 | 188314 | 48.53 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 97.06% | | | | |
| 73) toluene-d8 (s) | 4.691 | 98 | 634215 | 51.78 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.56% | | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 199790 | 50.62 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.24% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.871 | 45 | 3014 | 59.09 | ug/L | | 85 |
| 3) tertiary butyl alcohol | 2.358 | 59 | 2139 | 2.54 | ug/L | | 67 |
| 6) chlorodifluoromethane | 1.289 | 51 | 1734 | 0.47 | ug/L | | 76 |
| 7) dichlorodifluoromethane | 1.278 | 85 | 2076 | 0.45 | ug/L | | 90 |
| 8) chloromethane | 1.393 | 52 | 1117 | 0.72 | ug/L | # | 77 |
| 9) vinyl chloride | 1.446 | 62 | 3080 | 0.55 | ug/L | | 93 |
| 12) trichlorofluoromethane | 1.818 | 101 | 3607 | 0.45 | ug/L | | 92 |
| 13) 1,3-butadiene | 1.467 | 54 | 2719 | 0.58 | ug/L | | 88 |
| 14) ethyl ether | 1.954 | 74 | 710 | 0.39 | ug/L | | 87 |
| 15) acrolein | 2.028 | 56 | 352 | 0.41 | ug/L | # | 64 |
| 16) freon 113 | 2.085 | 151 | 1277 | 0.38 | ug/L | # | 84 |
| 17) 1,1-dichloroethene | 2.091 | 61 | 2083 | 0.43 | ug/L | | 95 |
| 18) acetone | 2.096 | 58 | 1086 | 2.12 | ug/L | # | 75 |
| 19) acetonitrile | 2.232 | 41 | 3442 | 5.44 | ug/L | | 91 |
| 21) carbon disulfide | 2.227 | 76 | 4740 | 0.56 | ug/L | | 95 |
| 22) methylene chloride | 2.342 | 84 | 2169 | 0.64 | ug/L | | 95 |
| 24) methyl tert butyl ether | 2.468 | 73 | 4460 | 0.46 | ug/L | | 90 |
| 25) trans-1,2-dichloroethene | 2.484 | 96 | 1467 | 0.42 | ug/L | | 95 |
| 26) hexane | 2.626 | 56 | 869 | 0.44 | ug/L | # | 88 |
| 27) di-isopropyl ether | 2.709 | 45 | 4559 | 0.47 | ug/L | | 92 |
| 28) ethyl tert-butyl ether | 2.909 | 59 | 4205 | 0.42 | ug/L | | 96 |
| 29) 1,1-dichloroethane | 2.709 | 63 | 2668 | 0.46 | ug/L | | 95 |
| 30) chloroprene | 2.757 | 53 | 1964 | 0.47 | ug/L | | 87 |
| 31) acrylonitrile | 2.453 | 53 | 810 | 0.44 | ug/L | | 92 |
| 34) 2-butanone | 2.998 | 72 | 1250 | 1.97 | ug/L | # | 85 |
| 35) 2,2-dichloropropane | 3.034 | 77 | 2524 | 0.48 | ug/L | | 95 |
| 36) cis-1,2-dichloroethene | 3.024 | 96 | 1756 | 0.47 | ug/L | | 89 |
| 37) propionitrile | 3.034 | 54 | 3679 | 4.54 | ug/L | | 83 |
| 39) bromochloromethane | 3.155 | 128 | 945 | 0.49 | ug/L | | 95 |
| 43) methacrylonitrile | 3.124 | 67 | 845 | 0.42 | ug/L | | 95 |
| 44) 1,1,1-trichloroethane | 3.318 | 97 | 2956 | 0.50 | ug/L | | 83 |
| 45) cyclohexane | 3.365 | 84 | 2316 | 0.49 | ug/L | | 91 |
| 46) 1,1-dichloropropene | 3.401 | 75 | 2252 | 0.48 | ug/L | | 91 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92140.D
Acq On : 11 Sep 2022 4:05 pm
Operator : PrashanS
Sample : IC3747-0.5
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 11:00:31 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 10:55:49 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 47) carbon tetrachloride | 3.412 | 119 | 2472 | 0.44 | ug/L | | 93 |
| 49) tert-amyl alcohol | 3.475 | 55 | 825 | 2.51 | ug/L | # | 82 |
| 52) n-butyl alcohol | 3.795 | 56 | 3900 | 19.75 | ug/L | | 86 |
| 53) benzene | 3.522 | 78 | 6018 | 0.46 | ug/L | | 95 |
| 54) tert-amyl methyl ether | 3.575 | 73 | 4390 | 0.43 | ug/L | | 91 |
| 55) iso-octane | 3.580 | 57 | 3165 | 0.47 | ug/L | | 95 |
| 58) 1,2-dichloroethane | 3.538 | 62 | 2667 | 0.52 | ug/L | | 88 |
| 59) trichloroethene | 3.905 | 95 | 1779 | 0.45 | ug/L | # | 68 |
| 60) ethyl acrylate | 3.921 | 55 | 2718 | 0.46 | ug/L | | 73 |
| 62) 2-chloroethyl vinyl ether | 4.387 | 63 | 3802 | 1.94 | ug/L | | 95 |
| 64) 1,2-dichloropropane | 4.067 | 63 | 1331 | 0.39 | ug/L | | 73 |
| 65) methylcyclohexane | 4.062 | 83 | 2130 | 0.45 | ug/L | | 84 |
| 66) dibromomethane | 4.125 | 93 | 1395 | 0.46 | ug/L | | 92 |
| 67) bromodichloromethane | 4.225 | 83 | 2413 | 0.43 | ug/L | | 89 |
| 69) cis-1,3-dichloropropene | 4.503 | 75 | 2259 | 0.43 | ug/L | | 90 |
| 70) 4-methyl-2-pentanone | 4.586 | 58 | 3655 | 1.93 | ug/L | | 86 |
| 71) 3-methyl-1-butanol | 4.607 | 70 | 1248 | 5.78 | ug/L | | 90 |
| 74) toluene | 4.738 | 92 | 3747 | 0.43 | ug/L | | 97 |
| 75) ethyl methacrylate | 4.901 | 69 | 1989 | 0.40 | ug/L | | 92 |
| 76) trans-1,3-dichloropropene | 4.880 | 75 | 2032 | 0.43 | ug/L | | 90 |
| 77) 1,1,2-trichloroethane | 5.016 | 83 | 1404 | 0.54 | ug/L | # | 83 |
| 78) 2-hexanone | 5.163 | 58 | 3673 | 1.83 | ug/L | | 96 |
| 79) tetrachloroethene | 5.105 | 164 | 1302 | 0.41 | ug/L | | 93 |
| 80) 1,3-dichloropropane | 5.142 | 76 | 2450 | 0.46 | ug/L | | 89 |
| 81) butyl acetate | 5.237 | 56 | 1161 | 0.44 | ug/L | | 87 |
| 82) dibromochloromethane | 5.305 | 129 | 1885 | 0.41 | ug/L | | 83 |
| 83) 1,2-dibromoethane | 5.394 | 107 | 1618 | 0.39 | ug/L | | 89 |
| 84) n-butyl ether | 5.803 | 57 | 5077 | 0.44 | ug/L | | 93 |
| 85) chlorobenzene | 5.756 | 112 | 4754 | 0.48 | ug/L | | 93 |
| 86) 1,1,1,2-tetrachloroethane | 5.819 | 131 | 1509 | 0.40 | ug/L | | 89 |
| 87) ethylbenzene | 5.819 | 91 | 7224 | 0.45 | ug/L | | 92 |
| 88) m,p-xylene | 5.918 | 106 | 5494 | 0.89 | ug/L | | 90 |
| 89) o-xylene | 6.212 | 91 | 5216 | 0.42 | ug/L | | 90 |
| 90) styrene | 6.227 | 104 | 4351 | 0.45 | ug/L | | 96 |
| 91) butyl acrylate | 6.154 | 56 | 1173 | 0.42 | ug/L | | 89 |
| 93) bromoform | 6.374 | 173 | 1300 | 0.36 | ug/L | | 80 |
| 94) isopropylbenzene | 6.495 | 105 | 6212 | 0.43 | ug/L | | 96 |
| 98) bromobenzene | 6.752 | 156 | 1892 | 0.44 | ug/L | | 95 |
| 99) 1,1,2,2-tetrachloroethane | 6.731 | 83 | 2435 | 0.45 | ug/L | | 88 |
| 101) 1,2,3-trichloropropane | 6.778 | 110 | 723 | 0.45 | ug/L | | 96 |
| 102) n-propylbenzene | 6.825 | 91 | 7271 | 0.45 | ug/L | | 91 |
| 103) 2-chlorotoluene | 6.893 | 126 | 1590 | 0.47 | ug/L | | 97 |
| 104) 4-chlorotoluene | 6.988 | 126 | 1693 | 0.47 | ug/L | | 89 |
| 105) 1,3,5-trimethylbenzene | 6.956 | 105 | 4741 | 0.46 | ug/L | | 90 |
| 106) tert-butylbenzene | 7.197 | 119 | 4076 | 0.46 | ug/L | | 97 |
| 107) 1,2,4-trimethylbenzene | 7.239 | 105 | 4990 | 0.42 | ug/L | | 98 |
| 108) sec-butylbenzene | 7.360 | 105 | 5532 | 0.45 | ug/L | | 93 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 3246 | 0.44 | ug/L | | 92 |
| 110) p-isopropyltoluene | 7.465 | 119 | 4494 | 0.42 | ug/L | | 94 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 4860 | 0.44 | ug/L | | 89 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92140.D
Acq On : 11 Sep 2022 4:05 pm
Operator : PrashanS
Sample : IC3747-0.5
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 11:00:31 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 10:55:49 2022
Response via : Initial Calibration

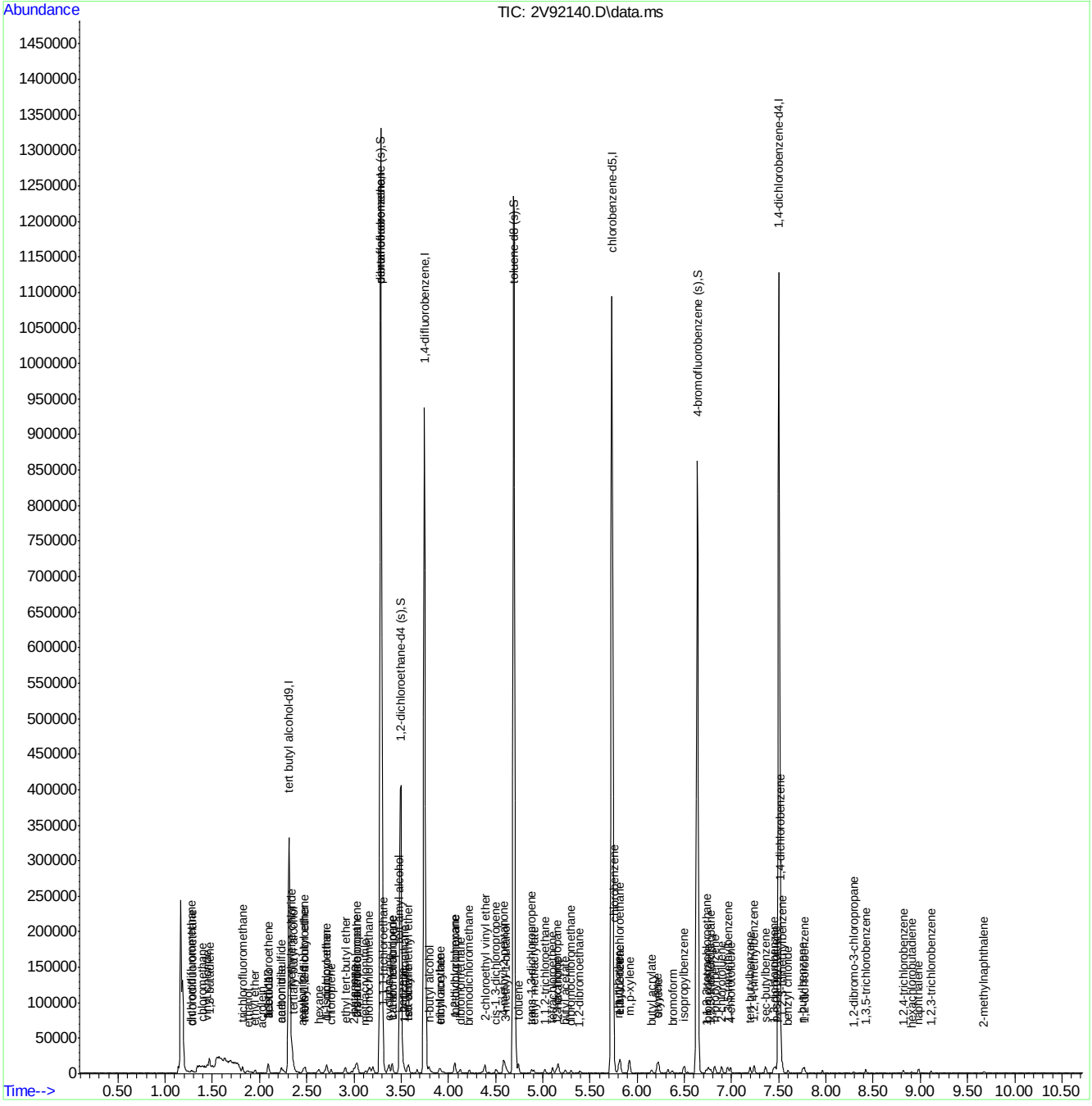
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 112) 1,4-dichlorobenzene | 7.523 | 146 | 3295 | 0.42 | ug/L | 93 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 3173 | 0.49 | ug/L | 92 |
| 114) benzyl chloride | 7.596 | 91 | 2782 | 0.40 | ug/L | 95 |
| 115) n-butylbenzene | 7.753 | 92 | 1827 | 0.40 | ug/L | 89 |
| 117) 1,2-dibromo-3-chloropr... | 8.293 | 157 | 545 | 0.35 | ug/L | 82 |
| 118) 1,3,5-trichlorobenzene | 8.424 | 180 | 1662 | 0.46 | ug/L | 90 |
| 119) 1,2,4-trichlorobenzene | 8.823 | 180 | 1290 | 0.40 | ug/L | 83 |
| 120) hexachlorobutadiene | 8.907 | 225 | 408 | 0.35 | ug/L | 94 |
| 121) naphthalene | 8.980 | 128 | 4776 | 0.44 | ug/L | 94 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 1129 | 0.42 | ug/L | 97 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 738 | 0.20 | ug/L | 91 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92140.D
Acq On : 11 Sep 2022 4:05 pm
Operator : PrashanS
Sample : IC3747-0.5
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 12 11:00:31 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 10:55:49 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92142.D
Acq On : 11 Sep 2022 4:35 pm
Operator : PrashanS
Sample : IC3747-1
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 12 11:23:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:09:07 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.311 | 65 | 281845 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.281 | 168 | 412524 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 3.748 | 114 | 551462 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 5.735 | 117 | 503867 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.502 | 152 | 223731 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 42) dibromofluoromethane (s) | 3.286 | 113 | 204146 | 49.82 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.64% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.491 | 65 | 188565 | 49.01 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 98.02% | | | | |
| 73) toluene-d8 (s) | 4.691 | 98 | 634221 | 50.90 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.80% | | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 200717 | 50.20 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.40% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.871 | 45 | 6767 | 119.80 | ug/L | | 93 |
| 3) tertiary butyl alcohol | 2.353 | 59 | 4579 | 5.33 | ug/L | | 89 |
| 4) 1,4-dioxane | 4.099 | 88 | 1546 | 21.40 | ug/L | | 92 |
| 6) chlorodifluoromethane | 1.289 | 51 | 3960 | 1.11 | ug/L | | 90 |
| 7) dichlorodifluoromethane | 1.273 | 85 | 4645 | 1.06 | ug/L | | 93 |
| 8) chloromethane | 1.393 | 52 | 1983 | 1.05 | ug/L | | 94 |
| 9) vinyl chloride | 1.446 | 62 | 6114 | 1.05 | ug/L | | 96 |
| 11) chloroethane | 1.682 | 64 | 3399 | 0.94 | ug/L | | 86 |
| 12) trichlorofluoromethane | 1.818 | 101 | 7673 | 1.00 | ug/L | | 94 |
| 13) 1,3-butadiene | 1.467 | 54 | 6071 | 1.20 | ug/L | | 98 |
| 14) ethyl ether | 1.949 | 74 | 1988 | 1.19 | ug/L | | 99 |
| 15) acrolein | 2.028 | 56 | 913 | 1.17 | ug/L | | 85 |
| 16) freon 113 | 2.085 | 151 | 3477 | 1.13 | ug/L | # | 85 |
| 17) 1,1-dichloroethene | 2.091 | 61 | 5313 | 1.14 | ug/L | | 95 |
| 18) acetone | 2.091 | 58 | 2343 | 4.48 | ug/L | | 87 |
| 19) acetonitrile | 2.237 | 41 | 7665 | 11.60 | ug/L | | 93 |
| 21) carbon disulfide | 2.227 | 76 | 10247 | 1.14 | ug/L | | 99 |
| 22) methylene chloride | 2.337 | 84 | 4277 | 1.11 | ug/L | | 89 |
| 23) methyl acetate | 2.248 | 74 | 894 | 0.96 | ug/L | | 94 |
| 24) methyl tert butyl ether | 2.473 | 73 | 10275 | 1.08 | ug/L | | 95 |
| 25) trans-1,2-dichloroethene | 2.484 | 96 | 3574 | 1.08 | ug/L | | 96 |
| 26) hexane | 2.620 | 56 | 2123 | 1.11 | ug/L | # | 88 |
| 27) di-isopropyl ether | 2.709 | 45 | 10363 | 1.09 | ug/L | | 97 |
| 28) ethyl tert-butyl ether | 2.903 | 59 | 10229 | 1.08 | ug/L | | 96 |
| 29) 1,1-dichloroethane | 2.715 | 63 | 6373 | 1.13 | ug/L | | 97 |
| 30) chloroprene | 2.757 | 53 | 4864 | 1.19 | ug/L | | 94 |
| 31) acrylonitrile | 2.447 | 53 | 1951 | 1.13 | ug/L | | 94 |
| 32) vinyl acetate | 2.694 | 86 | 630 | 0.73 | ug/L | # | 65 |
| 33) ethyl acetate | 3.008 | 45 | 871 | 0.98 | ug/L | | 93 |
| 34) 2-butanone | 2.998 | 72 | 3011 | 4.76 | ug/L | | 94 |
| 35) 2,2-dichloropropane | 3.029 | 77 | 5670 | 1.10 | ug/L | | 98 |
| 36) cis-1,2-dichloroethene | 3.024 | 96 | 4201 | 1.15 | ug/L | | 96 |
| 37) propionitrile | 3.029 | 54 | 8842 | 11.25 | ug/L | | 72 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92142.D
Acq On : 11 Sep 2022 4:35 pm
Operator : PrashanS
Sample : IC3747-1
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 12 11:23:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:09:07 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 38) methyl acrylate | 3.045 | 85 | 903 | 0.96 ug/L # | 79 |
| 39) bromochloromethane | 3.155 | 128 | 2469 | 1.28 ug/L | 88 |
| 41) chloroform | 3.197 | 83 | 8971 | 1.34 ug/L | 99 |
| 43) methacrylonitrile | 3.124 | 67 | 2203 | 1.19 ug/L | 92 |
| 44) 1,1,1-trichloroethane | 3.312 | 97 | 6906 | 1.16 ug/L | 85 |
| 45) cyclohexane | 3.365 | 84 | 5186 | 1.10 ug/L | 97 |
| 46) 1,1-dichloropropene | 3.401 | 75 | 5075 | 1.09 ug/L | 97 |
| 47) carbon tetrachloride | 3.407 | 119 | 5818 | 1.07 ug/L | 93 |
| 48) isobutyl alcohol | 3.401 | 42 | 1872 | 11.02 ug/L # | 82 |
| 49) tert-amyl alcohol | 3.475 | 55 | 2060 | 6.25 ug/L | 80 |
| 52) n-butyl alcohol | 3.795 | 56 | 10049 | 56.77 ug/L | 90 |
| 53) benzene | 3.522 | 78 | 13729 | 1.07 ug/L | 99 |
| 54) tert-amyl methyl ether | 3.574 | 73 | 10410 | 1.07 ug/L | 96 |
| 55) iso-octane | 3.574 | 57 | 7717 | 1.17 ug/L | 94 |
| 56) heptane | 3.664 | 57 | 1481 | 1.15 ug/L | 87 |
| 57) isopropyl acetate | 3.501 | 87 | 1021 | 0.98 ug/L # | 67 |
| 58) 1,2-dichloroethane | 3.538 | 62 | 5969 | 1.13 ug/L | 91 |
| 59) trichloroethene | 3.905 | 95 | 4001 | 1.05 ug/L | 91 |
| 60) ethyl acrylate | 3.926 | 55 | 6418 | 1.13 ug/L | 99 |
| 61) 2-nitropropane | 4.350 | 41 | 1698 | 1.07 ug/L | 86 |
| 62) 2-chloroethyl vinyl ether | 4.387 | 63 | 9319 | 5.14 ug/L | 99 |
| 63) methyl methacrylate | 4.073 | 100 | 1098 | 0.82 ug/L | 93 |
| 64) 1,2-dichloropropane | 4.067 | 63 | 3711 | 1.22 ug/L | 99 |
| 65) methylcyclohexane | 4.062 | 83 | 5031 | 1.09 ug/L | 92 |
| 66) dibromomethane | 4.125 | 93 | 3231 | 1.10 ug/L | 95 |
| 67) bromodichloromethane | 4.225 | 83 | 5469 | 1.03 ug/L | 98 |
| 68) epichlorohydrin | 4.424 | 57 | 2846 | 5.03 ug/L | 92 |
| 69) cis-1,3-dichloropropene | 4.508 | 75 | 6066 | 1.21 ug/L | 94 |
| 70) 4-methyl-2-pentanone | 4.586 | 58 | 8446 | 4.51 ug/L | 96 |
| 71) 3-methyl-1-butanol | 4.602 | 70 | 3541 | 20.76 ug/L # | 80 |
| 74) toluene | 4.744 | 92 | 8755 | 1.06 ug/L | 94 |
| 75) ethyl methacrylate | 4.906 | 69 | 4970 | 1.11 ug/L | 95 |
| 76) trans-1,3-dichloropropene | 4.880 | 75 | 5103 | 1.12 ug/L | 91 |
| 77) 1,1,2-trichloroethane | 5.022 | 83 | 3110 | 1.16 ug/L | 96 |
| 78) 2-hexanone | 5.163 | 58 | 9075 | 4.63 ug/L | 98 |
| 79) tetrachloroethene | 5.105 | 164 | 3410 | 1.13 ug/L | 95 |
| 80) 1,3-dichloropropane | 5.142 | 76 | 5412 | 1.04 ug/L | 97 |
| 81) butyl acetate | 5.237 | 56 | 2709 | 1.06 ug/L | 90 |
| 82) dibromochloromethane | 5.299 | 129 | 4751 | 1.10 ug/L | 98 |
| 83) 1,2-dibromoethane | 5.394 | 107 | 4373 | 1.13 ug/L | 94 |
| 84) n-butyl ether | 5.803 | 57 | 12165 | 1.09 ug/L | 97 |
| 85) chlorobenzene | 5.756 | 112 | 10716 | 1.09 ug/L | 99 |
| 86) 1,1,1,2-tetrachloroethane | 5.813 | 131 | 3753 | 1.06 ug/L | 96 |
| 87) ethylbenzene | 5.819 | 91 | 16364 | 1.05 ug/L | 97 |
| 88) m,p-xylene | 5.918 | 106 | 12739 | 2.14 ug/L | 92 |
| 89) o-xylene | 6.217 | 91 | 12197 | 1.04 ug/L | 90 |
| 90) styrene | 6.227 | 104 | 10283 | 1.09 ug/L | 97 |
| 91) butyl acrylate | 6.154 | 56 | 2935 | 1.10 ug/L | 89 |
| 92) n-amyl acetate | 6.327 | 70 | 2518 | 0.92 ug/L | 97 |
| 93) bromoform | 6.374 | 173 | 3360 | 1.08 ug/L | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92142.D
Acq On : 11 Sep 2022 4:35 pm
Operator : PrashanS
Sample : IC3747-1
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 12 11:23:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:09:07 2022
Response via : Initial Calibration

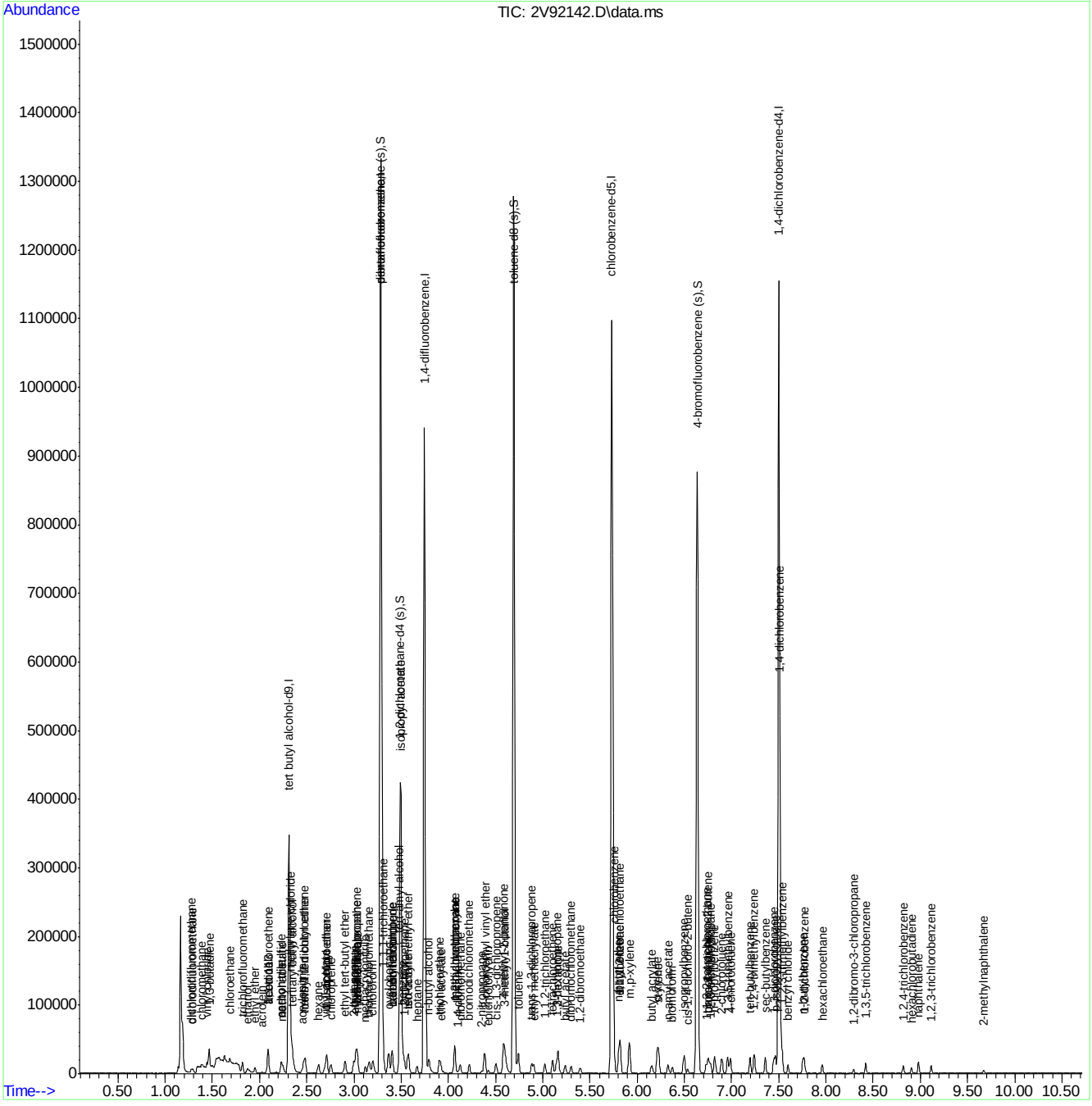
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 94) isopropylbenzene | 6.500 | 105 | 15623 | 1.12 | ug/L | 98 |
| 95) cis-1,4-dichloro-2-butene | 6.537 | 88 | 1318 | 0.68 | ug/L | 96 |
| 98) bromobenzene | 6.752 | 156 | 4595 | 1.10 | ug/L | 92 |
| 99) 1,1,2,2-tetrachloroethane | 6.731 | 83 | 5649 | 1.08 | ug/L | 99 |
| 100) trans-1,4-dichloro-2-b... | 6.752 | 53 | 1084 | 0.76 | ug/L | 70 |
| 101) 1,2,3-trichloropropane | 6.778 | 110 | 1648 | 1.06 | ug/L | 96 |
| 102) n-propylbenzene | 6.820 | 91 | 16583 | 1.06 | ug/L | 99 |
| 103) 2-chlorotoluene | 6.899 | 126 | 3934 | 1.17 | ug/L | 84 |
| 104) 4-chlorotoluene | 6.988 | 126 | 3749 | 1.05 | ug/L | 88 |
| 105) 1,3,5-trimethylbenzene | 6.961 | 105 | 11261 | 1.12 | ug/L | 98 |
| 106) tert-butylbenzene | 7.192 | 119 | 9893 | 1.14 | ug/L | 96 |
| 107) 1,2,4-trimethylbenzene | 7.239 | 105 | 11454 | 1.01 | ug/L | 96 |
| 108) sec-butylbenzene | 7.360 | 105 | 13246 | 1.11 | ug/L | 97 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 7435 | 1.05 | ug/L | 93 |
| 110) p-isopropyltoluene | 7.465 | 119 | 10892 | 1.07 | ug/L | 99 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 11820 | 1.11 | ug/L | 98 |
| 112) 1,4-dichlorobenzene | 7.517 | 146 | 7909 | 1.06 | ug/L | 93 |
| 113) 1,2-dichlorobenzene | 7.769 | 146 | 7294 | 1.12 | ug/L | 95 |
| 114) benzyl chloride | 7.596 | 91 | 6809 | 1.04 | ug/L | 96 |
| 115) n-butylbenzene | 7.753 | 92 | 4372 | 1.01 | ug/L | 91 |
| 116) hexachloroethane | 7.963 | 201 | 1484 | 0.83 | ug/L | 91 |
| 117) 1,2-dibromo-3-chloropr... | 8.293 | 157 | 1380 | 1.03 | ug/L | 88 |
| 118) 1,3,5-trichlorobenzene | 8.419 | 180 | 3921 | 1.11 | ug/L | 93 |
| 119) 1,2,4-trichlorobenzene | 8.818 | 180 | 3409 | 1.13 | ug/L | 97 |
| 120) hexachlorobutadiene | 8.907 | 225 | 1372 | 1.38 | ug/L | 80 |
| 121) naphthalene | 8.980 | 128 | 11326 | 1.07 | ug/L | 99 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 2951 | 1.15 | ug/L | 86 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 1964 | 0.59 | ug/L | 88 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92142.D
Acq On : 11 Sep 2022 4:35 pm
Operator : PrashanS
Sample : IC3747-1
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 12 11:23:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:09:07 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92144.D
Acq On : 11 Sep 2022 5:04 pm
Operator : PrashanS
Sample : IC3747-2
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 12 11:12:48 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:12:41 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 256822 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 399210 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 535445 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 5.735 | 117 | 484814 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.501 | 152 | 211537 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 195740 | 49.41 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.82% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.496 | 65 | 180233 | 48.48 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 96.96% | | | | |
| 73) toluene-d8 (s) | 4.691 | 98 | 614041 | 50.99 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.98% | | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 189521 | 50.08 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.16% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.876 | 45 | 13609 | 248.03 | ug/L | | 99 |
| 3) tertiary butyl alcohol | 2.353 | 59 | 9581 | 12.04 | ug/L | | 82 |
| 4) 1,4-dioxane | 4.099 | 88 | 3900 | 63.84 | ug/L | | 93 |
| 6) chlorodifluoromethane | 1.288 | 51 | 8502 | 2.37 | ug/L | | 94 |
| 7) dichlorodifluoromethane | 1.273 | 85 | 9116 | 2.11 | ug/L | | 98 |
| 8) chloromethane | 1.393 | 52 | 3707 | 1.99 | ug/L | | 100 |
| 9) vinyl chloride | 1.446 | 62 | 11622 | 2.04 | ug/L | | 99 |
| 10) bromomethane | 1.634 | 96 | 8762 | 2.01 | ug/L | | 94 |
| 11) chloroethane | 1.687 | 64 | 7759 | 2.29 | ug/L | | 96 |
| 12) trichlorofluoromethane | 1.818 | 101 | 15520 | 2.08 | ug/L | | 97 |
| 13) 1,3-butadiene | 1.467 | 54 | 12115 | 2.32 | ug/L | | 99 |
| 14) ethyl ether | 1.954 | 74 | 3821 | 2.25 | ug/L | | 94 |
| 15) acrolein | 2.028 | 56 | 1894 | 2.38 | ug/L | | 82 |
| 16) freon 113 | 2.085 | 151 | 6896 | 2.24 | ug/L | | 93 |
| 17) 1,1-dichloroethene | 2.091 | 61 | 10700 | 2.30 | ug/L | | 92 |
| 18) acetone | 2.091 | 58 | 4560 | 8.74 | ug/L | | 92 |
| 19) acetonitrile | 2.237 | 41 | 15081 | 22.39 | ug/L | | 97 |
| 20) iodomethane | 2.180 | 142 | 2392 | 0.72 | ug/L | | 97 |
| 21) carbon disulfide | 2.227 | 76 | 19585 | 2.15 | ug/L | | 99 |
| 22) methylene chloride | 2.342 | 84 | 7810 | 2.02 | ug/L | | 93 |
| 23) methyl acetate | 2.248 | 74 | 1973 | 2.23 | ug/L | | 98 |
| 24) methyl tert butyl ether | 2.468 | 73 | 20473 | 2.18 | ug/L | | 96 |
| 25) trans-1,2-dichloroethene | 2.484 | 96 | 7445 | 2.27 | ug/L | | 98 |
| 26) hexane | 2.625 | 56 | 3949 | 2.08 | ug/L | | 94 |
| 27) di-isopropyl ether | 2.709 | 45 | 21110 | 2.24 | ug/L | | 97 |
| 28) ethyl tert-butyl ether | 2.903 | 59 | 20137 | 2.15 | ug/L | | 94 |
| 29) 1,1-dichloroethane | 2.715 | 63 | 12617 | 2.24 | ug/L | | 98 |
| 30) chloroprene | 2.756 | 53 | 9828 | 2.37 | ug/L | | 94 |
| 31) acrylonitrile | 2.452 | 53 | 3723 | 2.14 | ug/L | | 94 |
| 32) vinyl acetate | 2.688 | 86 | 1695 | 2.36 | ug/L | # | 72 |
| 33) ethyl acetate | 3.008 | 45 | 1577 | 1.86 | ug/L | | 86 |
| 34) 2-butanone | 2.998 | 72 | 5895 | 9.20 | ug/L | | 95 |
| 35) 2,2-dichloropropane | 3.029 | 77 | 10417 | 2.03 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92144.D
Acq On : 11 Sep 2022 5:04 pm
Operator : PrashanS
Sample : IC3747-2
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 12 11:12:48 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:12:41 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 3.024 | 96 | 8856 | 2.42 | ug/L | | 97 |
| 37) propionitrile | 3.034 | 54 | 17767 | 22.66 | ug/L | | 92 |
| 38) methyl acrylate | 3.045 | 85 | 1882 | 2.11 | ug/L | # | 89 |
| 39) bromochloromethane | 3.155 | 128 | 4558 | 2.28 | ug/L | | 90 |
| 40) tetrahydrofuran | 3.171 | 71 | 2116 | 2.77 | ug/L | | 96 |
| 41) chloroform | 3.197 | 83 | 16332 | 2.16 | ug/L | | 98 |
| 43) methacrylonitrile | 3.123 | 67 | 4152 | 2.18 | ug/L | | 87 |
| 44) 1,1,1-trichloroethane | 3.317 | 97 | 12826 | 2.15 | ug/L | | 95 |
| 45) cyclohexane | 3.370 | 84 | 9473 | 2.03 | ug/L | | 94 |
| 46) 1,1-dichloropropene | 3.401 | 75 | 9791 | 2.13 | ug/L | | 97 |
| 47) carbon tetrachloride | 3.407 | 119 | 11159 | 2.09 | ug/L | | 92 |
| 48) isobutyl alcohol | 3.401 | 42 | 4066 | 23.53 | ug/L | | 97 |
| 49) tert-amyl alcohol | 3.475 | 55 | 4210 | 12.18 | ug/L | | 83 |
| 52) n-butyl alcohol | 3.789 | 56 | 20111 | 111.96 | ug/L | | 99 |
| 53) benzene | 3.522 | 78 | 27235 | 2.15 | ug/L | | 98 |
| 54) tert-amyl methyl ether | 3.574 | 73 | 21220 | 2.21 | ug/L | | 97 |
| 55) iso-octane | 3.580 | 57 | 14757 | 2.22 | ug/L | | 92 |
| 56) heptane | 3.669 | 57 | 2768 | 2.11 | ug/L | | 95 |
| 57) isopropyl acetate | 3.496 | 87 | 2063 | 2.06 | ug/L | # | 67 |
| 58) 1,2-dichloroethane | 3.538 | 62 | 11602 | 2.17 | ug/L | | 99 |
| 59) trichloroethene | 3.910 | 95 | 8112 | 2.17 | ug/L | | 97 |
| 60) ethyl acrylate | 3.926 | 55 | 13293 | 2.30 | ug/L | | 96 |
| 61) 2-nitropropane | 4.356 | 41 | 3228 | 2.03 | ug/L | | 81 |
| 62) 2-chloroethyl vinyl ether | 4.387 | 63 | 20134 | 11.35 | ug/L | | 92 |
| 63) methyl methacrylate | 4.072 | 100 | 2532 | 2.15 | ug/L | # | 83 |
| 64) 1,2-dichloropropane | 4.067 | 63 | 7458 | 2.35 | ug/L | | 91 |
| 65) methylcyclohexane | 4.067 | 83 | 9909 | 2.17 | ug/L | | 97 |
| 66) dibromomethane | 4.125 | 93 | 6305 | 2.15 | ug/L | | 98 |
| 67) bromodichloromethane | 4.225 | 83 | 10910 | 2.10 | ug/L | | 98 |
| 68) epichlorohydrin | 4.424 | 57 | 5806 | 10.54 | ug/L | | 93 |
| 69) cis-1,3-dichloropropene | 4.508 | 75 | 11432 | 2.22 | ug/L | | 97 |
| 70) 4-methyl-2-pentanone | 4.586 | 58 | 16945 | 9.02 | ug/L | | 90 |
| 71) 3-methyl-1-butanol | 4.607 | 70 | 7848 | 46.79 | ug/L | | 97 |
| 74) toluene | 4.744 | 92 | 17933 | 2.22 | ug/L | | 95 |
| 75) ethyl methacrylate | 4.901 | 69 | 10222 | 2.29 | ug/L | | 98 |
| 76) trans-1,3-dichloropropene | 4.880 | 75 | 10429 | 2.31 | ug/L | | 97 |
| 77) 1,1,2-trichloroethane | 5.021 | 83 | 6300 | 2.35 | ug/L | | 98 |
| 78) 2-hexanone | 5.163 | 58 | 18324 | 9.35 | ug/L | | 94 |
| 79) tetrachloroethene | 5.105 | 164 | 7258 | 2.42 | ug/L | | 94 |
| 80) 1,3-dichloropropane | 5.142 | 76 | 11396 | 2.25 | ug/L | | 97 |
| 81) butyl acetate | 5.236 | 56 | 5980 | 2.39 | ug/L | | 86 |
| 82) dibromochloromethane | 5.299 | 129 | 9290 | 2.18 | ug/L | | 98 |
| 83) 1,2-dibromoethane | 5.394 | 107 | 8564 | 2.23 | ug/L | | 98 |
| 84) n-butyl ether | 5.803 | 57 | 25252 | 2.30 | ug/L | | 97 |
| 85) chlorobenzene | 5.755 | 112 | 21145 | 2.18 | ug/L | | 95 |
| 86) 1,1,1,2-tetrachloroethane | 5.813 | 131 | 7502 | 2.16 | ug/L | | 90 |
| 87) ethylbenzene | 5.818 | 91 | 32545 | 2.14 | ug/L | | 97 |
| 88) m,p-xylene | 5.918 | 106 | 25419 | 4.36 | ug/L | | 95 |
| 89) o-xylene | 6.212 | 91 | 25429 | 2.23 | ug/L | | 97 |
| 90) styrene | 6.227 | 104 | 20334 | 2.19 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92144.D
Acq On : 11 Sep 2022 5:04 pm
Operator : PrashanS
Sample : IC3747-2
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 12 11:12:48 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:12:41 2022
Response via : Initial Calibration

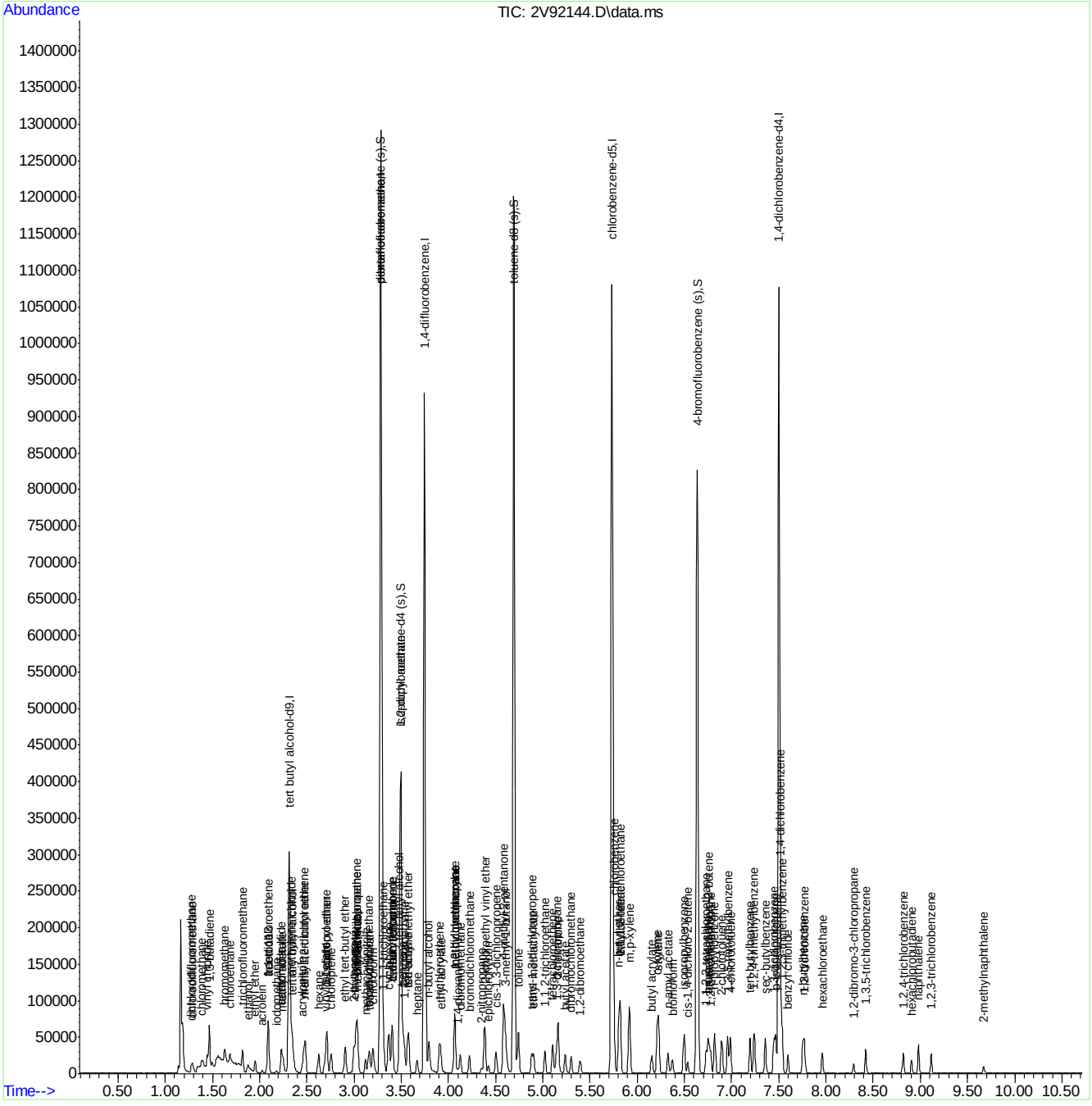
| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 91) butyl acrylate | 6.154 | 56 | 6072 | 2.30 | ug/L | | 95 |
| 92) n-amyl acetate | 6.327 | 70 | 5296 | 2.09 | ug/L | # | 78 |
| 93) bromoform | 6.369 | 173 | 6452 | 2.10 | ug/L | | 97 |
| 94) isopropylbenzene | 6.495 | 105 | 30453 | 2.21 | ug/L | | 99 |
| 95) cis-1,4-dichloro-2-butene | 6.537 | 88 | 2744 | 1.76 | ug/L | # | 81 |
| 98) bromobenzene | 6.752 | 156 | 9231 | 2.28 | ug/L | | 93 |
| 99) 1,1,2,2-tetrachloroethane | 6.731 | 83 | 11918 | 2.36 | ug/L | | 94 |
| 100) trans-1,4-dichloro-2-b... | 6.762 | 53 | 2146 | 1.81 | ug/L | | 94 |
| 101) 1,2,3-trichloropropane | 6.778 | 110 | 3328 | 2.23 | ug/L | | 93 |
| 102) n-propylbenzene | 6.820 | 91 | 34464 | 2.29 | ug/L | | 98 |
| 103) 2-chlorotoluene | 6.893 | 126 | 7879 | 2.38 | ug/L | | 95 |
| 104) 4-chlorotoluene | 6.988 | 126 | 7992 | 2.33 | ug/L | | 96 |
| 105) 1,3,5-trimethylbenzene | 6.961 | 105 | 22291 | 2.27 | ug/L | | 96 |
| 106) tert-butylbenzene | 7.197 | 119 | 20047 | 2.36 | ug/L | | 99 |
| 107) 1,2,4-trimethylbenzene | 7.239 | 105 | 22816 | 2.12 | ug/L | | 98 |
| 108) sec-butylbenzene | 7.360 | 105 | 27170 | 2.34 | ug/L | | 99 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 15389 | 2.27 | ug/L | | 95 |
| 110) p-isopropyltoluene | 7.470 | 119 | 22625 | 2.32 | ug/L | | 96 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 23453 | 2.26 | ug/L | | 99 |
| 112) 1,4-dichlorobenzene | 7.522 | 146 | 16393 | 2.28 | ug/L | | 93 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 13957 | 2.21 | ug/L | | 96 |
| 114) benzyl chloride | 7.596 | 91 | 14079 | 2.25 | ug/L | | 96 |
| 115) n-butylbenzene | 7.753 | 92 | 9665 | 2.36 | ug/L | | 93 |
| 116) hexachloroethane | 7.963 | 201 | 2860 | 1.85 | ug/L | # | 83 |
| 117) 1,2-dibromo-3-chloropr... | 8.293 | 157 | 2847 | 2.23 | ug/L | | 92 |
| 118) 1,3,5-trichlorobenzene | 8.419 | 180 | 8299 | 2.42 | ug/L | | 93 |
| 119) 1,2,4-trichlorobenzene | 8.817 | 180 | 7224 | 2.45 | ug/L | | 99 |
| 120) hexachlorobutadiene | 8.907 | 225 | 2512 | 2.37 | ug/L | | 92 |
| 121) naphthalene | 8.980 | 128 | 23460 | 2.30 | ug/L | | 97 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 6526 | 2.59 | ug/L | | 93 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 4140 | 1.24 | ug/L | | 85 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92144.D
Acq On : 11 Sep 2022 5:04 pm
Operator : PrashanS
Sample : IC3747-2
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 12 11:12:48 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:12:41 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92146.D
Acq On : 11 Sep 2022 5:33 pm
Operator : PrashanS
Sample : IC3747-4
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 12 11:15:46 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:15:38 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 293588 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 414212 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 3.748 | 114 | 552226 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 5.735 | 117 | 510733 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.502 | 152 | 231190 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 207144 | 50.51 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.02% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.496 | 65 | 194942 | 51.16 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 102.32% | | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 637479 | 50.05 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.10% | | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 203426 | 49.17 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.34% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.881 | 45 | 24858 | 373.87 | ug/L | | 93 |
| 3) tertiary butyl alcohol | 2.358 | 59 | 18148 | 19.17 | ug/L | | 86 |
| 4) 1,4-dioxane | 4.099 | 88 | 7210 | 94.52 | ug/L | | 97 |
| 6) chlorodifluoromethane | 1.299 | 51 | 15576 | 4.00 | ug/L | | 98 |
| 7) dichlorodifluoromethane | 1.278 | 85 | 18621 | 4.10 | ug/L | | 99 |
| 8) chloromethane | 1.399 | 52 | 7090 | 3.68 | ug/L | | 99 |
| 9) vinyl chloride | 1.451 | 62 | 22769 | 3.84 | ug/L | | 95 |
| 10) bromomethane | 1.635 | 96 | 17438 | 3.85 | ug/L | | 93 |
| 11) chloroethane | 1.692 | 64 | 15321 | 4.16 | ug/L | | 95 |
| 12) trichlorofluoromethane | 1.823 | 101 | 31425 | 4.03 | ug/L | | 99 |
| 13) 1,3-butadiene | 1.472 | 54 | 22094 | 3.92 | ug/L | | 98 |
| 14) ethyl ether | 1.960 | 74 | 7765 | 4.30 | ug/L | | 95 |
| 15) acrolein | 2.033 | 56 | 3578 | 4.13 | ug/L | | 97 |
| 16) freon 113 | 2.091 | 151 | 13136 | 4.02 | ug/L | | 96 |
| 17) 1,1-dichloroethene | 2.096 | 61 | 20355 | 4.09 | ug/L | | 98 |
| 18) acetone | 2.096 | 58 | 8702 | 15.79 | ug/L | | 92 |
| 19) acetonitrile | 2.243 | 41 | 28262 | 39.27 | ug/L | | 98 |
| 20) iodomethane | 2.185 | 142 | 5874 | 2.51 | ug/L | | 93 |
| 21) carbon disulfide | 2.232 | 76 | 36585 | 3.80 | ug/L | | 99 |
| 22) methylene chloride | 2.348 | 84 | 15016 | 3.73 | ug/L | | 89 |
| 23) methyl acetate | 2.253 | 74 | 3955 | 4.15 | ug/L | | 97 |
| 24) methyl tert butyl ether | 2.473 | 73 | 40916 | 4.13 | ug/L | | 98 |
| 25) trans-1,2-dichloroethene | 2.489 | 96 | 13841 | 3.96 | ug/L | | 98 |
| 26) hexane | 2.631 | 56 | 7818 | 3.94 | ug/L | | 92 |
| 27) di-isopropyl ether | 2.715 | 45 | 40567 | 4.05 | ug/L | | 97 |
| 28) ethyl tert-butyl ether | 2.909 | 59 | 39251 | 3.98 | ug/L | | 99 |
| 29) 1,1-dichloroethane | 2.720 | 63 | 24857 | 4.16 | ug/L | | 96 |
| 30) chloroprene | 2.762 | 53 | 18649 | 4.17 | ug/L | | 96 |
| 31) acrylonitrile | 2.452 | 53 | 7709 | 4.20 | ug/L | | 95 |
| 32) vinyl acetate | 2.694 | 86 | 3206 | 4.05 | ug/L | # | 88 |
| 33) ethyl acetate | 3.008 | 45 | 3402 | 3.95 | ug/L | # | 71 |
| 34) 2-butanone | 2.998 | 72 | 12168 | 17.77 | ug/L | # | 92 |
| 35) 2,2-dichloropropane | 3.034 | 77 | 20627 | 3.87 | ug/L | | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92146.D
Acq On : 11 Sep 2022 5:33 pm
Operator : PrashanS
Sample : IC3747-4
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 12 11:15:46 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:15:38 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 3.024 | 96 | 16334 | 4.13 | ug/L | | 96 |
| 37) propionitrile | 3.034 | 54 | 34800 | 41.67 | ug/L | | 82 |
| 38) methyl acrylate | 3.045 | 85 | 3578 | 3.79 | ug/L | # | 74 |
| 39) bromochloromethane | 3.160 | 128 | 9246 | 4.34 | ug/L | | 95 |
| 40) tetrahydrofuran | 3.171 | 71 | 3807 | 4.03 | ug/L | | 91 |
| 41) chloroform | 3.202 | 83 | 28529 | 3.54 | ug/L | | 97 |
| 43) methacrylonitrile | 3.124 | 67 | 8386 | 4.16 | ug/L | | 95 |
| 44) 1,1,1-trichloroethane | 3.318 | 97 | 24425 | 3.88 | ug/L | | 95 |
| 45) cyclohexane | 3.370 | 84 | 18510 | 3.81 | ug/L | | 96 |
| 46) 1,1-dichloropropene | 3.407 | 75 | 19231 | 3.98 | ug/L | | 100 |
| 47) carbon tetrachloride | 3.412 | 119 | 21900 | 3.91 | ug/L | | 93 |
| 48) isobutyl alcohol | 3.401 | 42 | 7707 | 40.60 | ug/L | # | 84 |
| 49) tert-amyl alcohol | 3.480 | 55 | 7628 | 20.18 | ug/L | | 91 |
| 52) n-butyl alcohol | 3.795 | 56 | 41485 | 217.44 | ug/L | | 99 |
| 53) benzene | 3.522 | 78 | 53100 | 4.01 | ug/L | | 99 |
| 54) tert-amyl methyl ether | 3.574 | 73 | 41763 | 4.13 | ug/L | | 96 |
| 55) iso-octane | 3.580 | 57 | 29031 | 4.14 | ug/L | | 98 |
| 56) heptane | 3.669 | 57 | 5316 | 3.87 | ug/L | | 93 |
| 57) isopropyl acetate | 3.501 | 87 | 4267 | 4.09 | ug/L | # | 81 |
| 58) 1,2-dichloroethane | 3.543 | 62 | 22156 | 3.94 | ug/L | | 99 |
| 59) trichloroethene | 3.910 | 95 | 14998 | 3.82 | ug/L | | 95 |
| 60) ethyl acrylate | 3.921 | 55 | 25025 | 4.05 | ug/L | | 99 |
| 61) 2-nitropropane | 4.356 | 41 | 5895 | 3.57 | ug/L | | 90 |
| 62) 2-chloroethyl vinyl ether | 4.387 | 63 | 42282 | 22.50 | ug/L | | 96 |
| 63) methyl methacrylate | 4.073 | 100 | 5448 | 4.37 | ug/L | | 96 |
| 64) 1,2-dichloropropane | 4.067 | 63 | 13700 | 4.01 | ug/L | | 99 |
| 65) methylcyclohexane | 4.062 | 83 | 19290 | 4.02 | ug/L | | 92 |
| 66) dibromomethane | 4.125 | 93 | 12201 | 3.98 | ug/L | | 95 |
| 67) bromodichloromethane | 4.225 | 83 | 20756 | 3.83 | ug/L | | 94 |
| 68) epichlorohydrin | 4.424 | 57 | 11686 | 20.20 | ug/L | | 98 |
| 69) cis-1,3-dichloropropene | 4.508 | 75 | 22358 | 4.13 | ug/L | | 100 |
| 70) 4-methyl-2-pentanone | 4.586 | 58 | 34515 | 17.38 | ug/L | | 97 |
| 71) 3-methyl-1-butanol | 4.607 | 70 | 15985 | 88.65 | ug/L | | 100 |
| 74) toluene | 4.744 | 92 | 33686 | 3.87 | ug/L | | 97 |
| 75) ethyl methacrylate | 4.906 | 69 | 19897 | 4.08 | ug/L | | 99 |
| 76) trans-1,3-dichloropropene | 4.880 | 75 | 20524 | 4.19 | ug/L | | 98 |
| 77) 1,1,2-trichloroethane | 5.022 | 83 | 12606 | 4.31 | ug/L | | 90 |
| 78) 2-hexanone | 5.163 | 58 | 36100 | 16.91 | ug/L | | 97 |
| 79) tetrachloroethene | 5.111 | 164 | 13422 | 4.08 | ug/L | | 94 |
| 80) 1,3-dichloropropane | 5.142 | 76 | 22449 | 4.11 | ug/L | | 99 |
| 81) butyl acetate | 5.237 | 56 | 11670 | 4.26 | ug/L | | 97 |
| 82) dibromochloromethane | 5.305 | 129 | 18552 | 4.06 | ug/L | | 100 |
| 83) 1,2-dibromoethane | 5.394 | 107 | 17111 | 4.13 | ug/L | | 99 |
| 84) n-butyl ether | 5.803 | 57 | 48702 | 4.08 | ug/L | | 99 |
| 85) chlorobenzene | 5.756 | 112 | 40562 | 3.90 | ug/L | | 94 |
| 86) 1,1,1,2-tetrachloroethane | 5.813 | 131 | 15995 | 4.31 | ug/L | | 97 |
| 87) ethylbenzene | 5.819 | 91 | 63026 | 3.88 | ug/L | | 99 |
| 88) m,p-xylene | 5.918 | 106 | 48659 | 7.78 | ug/L | | 99 |
| 89) o-xylene | 6.212 | 91 | 49264 | 4.01 | ug/L | | 98 |
| 90) styrene | 6.227 | 104 | 40716 | 4.09 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92146.D
Acq On : 11 Sep 2022 5:33 pm
Operator : PrashanS
Sample : IC3747-4
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 12 11:15:46 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:15:38 2022
Response via : Initial Calibration

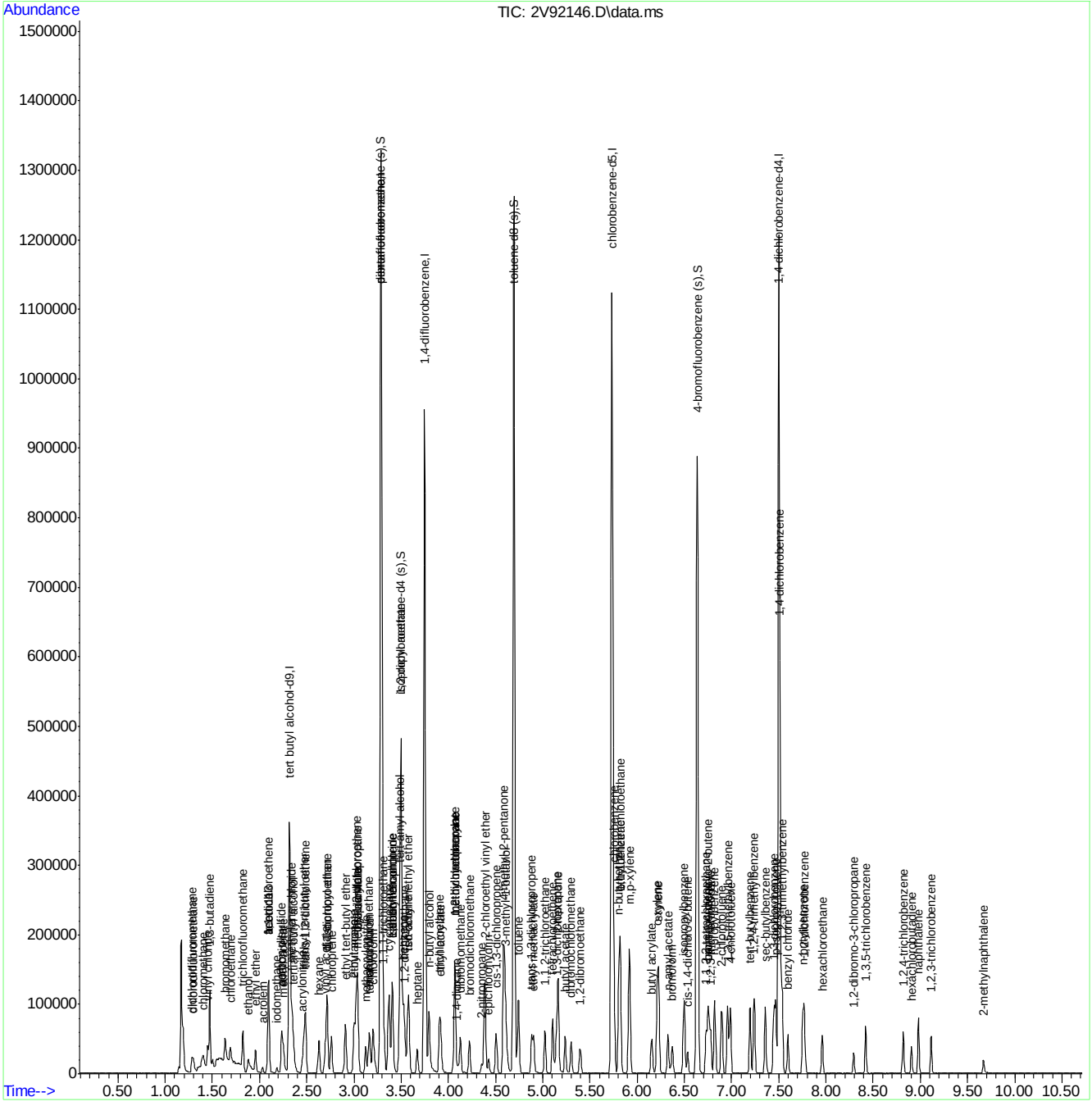
| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 91) butyl acrylate | 6.154 | 56 | 12713 | 4.44 | ug/L | | 97 |
| 92) n-amyl acetate | 6.327 | 70 | 10696 | 3.95 | ug/L | | 94 |
| 93) bromoform | 6.369 | 173 | 13603 | 4.15 | ug/L | | 99 |
| 94) isopropylbenzene | 6.495 | 105 | 59284 | 4.00 | ug/L | | 98 |
| 95) cis-1,4-dichloro-2-butene | 6.537 | 88 | 6149 | 3.90 | ug/L | # | 88 |
| 98) bromobenzene | 6.752 | 156 | 18188 | 4.00 | ug/L | | 97 |
| 99) 1,1,2,2-tetrachloroethane | 6.731 | 83 | 22700 | 3.97 | ug/L | | 99 |
| 100) trans-1,4-dichloro-2-b... | 6.757 | 53 | 4442 | 3.53 | ug/L | | 93 |
| 101) 1,2,3-trichloropropane | 6.778 | 110 | 6702 | 3.99 | ug/L | | 93 |
| 102) n-propylbenzene | 6.820 | 91 | 65213 | 3.86 | ug/L | | 98 |
| 103) 2-chlorotoluene | 6.899 | 126 | 15262 | 4.06 | ug/L | | 92 |
| 104) 4-chlorotoluene | 6.988 | 126 | 15460 | 4.00 | ug/L | | 98 |
| 105) 1,3,5-trimethylbenzene | 6.961 | 105 | 43477 | 3.95 | ug/L | | 97 |
| 106) tert-butylbenzene | 7.197 | 119 | 39157 | 4.06 | ug/L | | 96 |
| 107) 1,2,4-trimethylbenzene | 7.239 | 105 | 44753 | 3.77 | ug/L | | 99 |
| 108) sec-butylbenzene | 7.360 | 105 | 52494 | 4.00 | ug/L | | 98 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 29571 | 3.88 | ug/L | | 96 |
| 110) p-isopropyltoluene | 7.465 | 119 | 43836 | 3.98 | ug/L | | 96 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 46494 | 4.00 | ug/L | | 99 |
| 112) 1,4-dichlorobenzene | 7.517 | 146 | 29885 | 3.71 | ug/L | | 96 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 28793 | 4.08 | ug/L | | 98 |
| 114) benzyl chloride | 7.596 | 91 | 27875 | 3.97 | ug/L | | 100 |
| 115) n-butylbenzene | 7.753 | 92 | 18127 | 3.91 | ug/L | | 98 |
| 116) hexachloroethane | 7.963 | 201 | 6378 | 3.87 | ug/L | | 99 |
| 117) 1,2-dibromo-3-chloropr... | 8.293 | 157 | 5862 | 4.08 | ug/L | | 92 |
| 118) 1,3,5-trichlorobenzene | 8.419 | 180 | 15669 | 4.01 | ug/L | | 99 |
| 119) 1,2,4-trichlorobenzene | 8.818 | 180 | 13656 | 4.05 | ug/L | | 95 |
| 120) hexachlorobutadiene | 8.901 | 225 | 5133 | 4.24 | ug/L | | 86 |
| 121) naphthalene | 8.980 | 128 | 46265 | 4.03 | ug/L | | 99 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 13260 | 4.55 | ug/L | | 96 |
| 123) 2-methylnaphthalene | 9.667 | 142 | 8488 | 2.19 | ug/L | | 93 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92146.D
Acq On : 11 Sep 2022 5:33 pm
Operator : PrashanS
Sample : IC3747-4
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 12 11:15:46 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:15:38 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92148.D
Acq On : 11 Sep 2022 6:02 pm
Operator : PrashanS
Sample : IC3747-8
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 12 11:16:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:16:26 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 291561 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 414284 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.748 | 114 | 558215 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.735 | 117 | 511244 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.502 | 152 | 229542 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 207683 | 50.55 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.10% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.496 | 65 | 193170 | 49.95 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.90% | | | |
| 73) toluene-d8 (s) | 4.691 | 98 | 643260 | 50.45 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.90% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 203295 | 49.63 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.26% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 1.876 | 45 | 46167 | 708.44 | ug/L | 98 |
| 3) tertiary butyl alcohol | 2.358 | 59 | 35597 | 38.13 | ug/L | 93 |
| 4) 1,4-dioxane | 4.099 | 88 | 14727 | 197.11 | ug/L | 93 |
| 6) chlorodifluoromethane | 1.294 | 51 | 31806 | 8.17 | ug/L | 95 |
| 7) dichlorodifluoromethane | 1.278 | 85 | 35835 | 7.85 | ug/L | 97 |
| 8) chloromethane | 1.393 | 52 | 12922 | 6.81 | ug/L | 99 |
| 9) vinyl chloride | 1.446 | 62 | 44293 | 7.51 | ug/L | 99 |
| 10) bromomethane | 1.635 | 96 | 32288 | 7.19 | ug/L | 98 |
| 11) chloroethane | 1.687 | 64 | 26967 | 7.24 | ug/L | 94 |
| 12) trichlorofluoromethane | 1.818 | 101 | 69101 | 8.86 | ug/L | 97 |
| 13) 1,3-butadiene | 1.467 | 54 | 42711 | 7.61 | ug/L | 99 |
| 14) ethyl ether | 1.954 | 74 | 15955 | 8.73 | ug/L | 99 |
| 15) acrolein | 2.028 | 56 | 6912 | 7.93 | ug/L | 96 |
| 16) freon 113 | 2.086 | 151 | 25130 | 7.68 | ug/L | 98 |
| 17) 1,1-dichloroethene | 2.091 | 61 | 40370 | 8.08 | ug/L | 95 |
| 18) acetone | 2.096 | 58 | 16973 | 30.85 | ug/L | 95 |
| 19) acetonitrile | 2.238 | 41 | 54926 | 76.58 | ug/L | 96 |
| 20) iodomethane | 2.180 | 142 | 14689 | 7.17 | ug/L | 98 |
| 21) carbon disulfide | 2.227 | 76 | 72233 | 7.58 | ug/L | 100 |
| 22) methylene chloride | 2.342 | 84 | 28639 | 7.22 | ug/L | 95 |
| 23) methyl acetate | 2.253 | 74 | 7550 | 7.85 | ug/L | 91 |
| 24) methyl tert butyl ether | 2.474 | 73 | 79432 | 7.98 | ug/L | 99 |
| 25) trans-1,2-dichloroethene | 2.484 | 96 | 28498 | 8.17 | ug/L | 98 |
| 26) hexane | 2.626 | 56 | 15719 | 7.94 | ug/L | 95 |
| 27) di-isopropyl ether | 2.709 | 45 | 79657 | 7.94 | ug/L | 97 |
| 28) ethyl tert-butyl ether | 2.909 | 59 | 78594 | 7.97 | ug/L | 99 |
| 29) 1,1-dichloroethane | 2.715 | 63 | 48275 | 8.02 | ug/L | 98 |
| 30) chloroprene | 2.757 | 53 | 37124 | 8.25 | ug/L | 98 |
| 31) acrylonitrile | 2.453 | 53 | 14572 | 7.85 | ug/L | 98 |
| 32) vinyl acetate | 2.694 | 86 | 6421 | 8.09 | ug/L | 94 |
| 33) ethyl acetate | 3.008 | 45 | 7682 | 8.95 | ug/L | 91 |
| 34) 2-butanone | 2.998 | 72 | 23290 | 33.39 | ug/L | 94 |
| 35) 2,2-dichloropropane | 3.035 | 77 | 41472 | 7.82 | ug/L | 94 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92148.D
Acq On : 11 Sep 2022 6:02 pm
Operator : PrashanS
Sample : IC3747-8
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 12 11:16:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:16:26 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 3.024 | 96 | 32116 | 8.07 | ug/L | | 94 |
| 37) propionitrile | 3.035 | 54 | 68610 | 81.57 | ug/L | | 93 |
| 38) methyl acrylate | 3.045 | 85 | 7669 | 8.23 | ug/L | | 97 |
| 39) bromochloromethane | 3.155 | 128 | 17755 | 8.22 | ug/L | | 96 |
| 40) tetrahydrofuran | 3.166 | 71 | 6820 | 7.20 | ug/L | | 98 |
| 41) chloroform | 3.202 | 83 | 56006 | 7.15 | ug/L | | 99 |
| 43) methacrylonitrile | 3.124 | 67 | 16125 | 7.93 | ug/L | | 94 |
| 44) 1,1,1-trichloroethane | 3.318 | 97 | 49767 | 7.95 | ug/L | | 98 |
| 45) cyclohexane | 3.370 | 84 | 36254 | 7.52 | ug/L | | 97 |
| 46) 1,1-dichloropropene | 3.402 | 75 | 38070 | 7.88 | ug/L | | 98 |
| 47) carbon tetrachloride | 3.412 | 119 | 45181 | 8.10 | ug/L | | 98 |
| 48) isobutyl alcohol | 3.402 | 42 | 14599 | 76.61 | ug/L | | 98 |
| 49) tert-amyl alcohol | 3.475 | 55 | 14975 | 39.53 | ug/L | | 89 |
| 52) n-butyl alcohol | 3.789 | 56 | 83030 | 423.14 | ug/L | | 97 |
| 53) benzene | 3.522 | 78 | 104683 | 7.82 | ug/L | | 99 |
| 54) tert-amyl methyl ether | 3.575 | 73 | 82327 | 8.02 | ug/L | | 99 |
| 55) iso-octane | 3.580 | 57 | 56348 | 7.90 | ug/L | | 94 |
| 56) heptane | 3.669 | 57 | 10834 | 7.86 | ug/L | | 99 |
| 57) isopropyl acetate | 3.501 | 87 | 8207 | 7.73 | ug/L | # | 93 |
| 58) 1,2-dichloroethane | 3.538 | 62 | 42871 | 7.56 | ug/L | | 100 |
| 59) trichloroethene | 3.905 | 95 | 30608 | 7.77 | ug/L | | 98 |
| 60) ethyl acrylate | 3.921 | 55 | 48848 | 7.81 | ug/L | | 99 |
| 61) 2-nitropropane | 4.356 | 41 | 11971 | 7.38 | ug/L | | 93 |
| 62) 2-chloroethyl vinyl ether | 4.387 | 63 | 86873 | 44.81 | ug/L | | 97 |
| 63) methyl methacrylate | 4.073 | 100 | 10159 | 7.88 | ug/L | # | 88 |
| 64) 1,2-dichloropropane | 4.067 | 63 | 27065 | 7.84 | ug/L | | 99 |
| 65) methylcyclohexane | 4.067 | 83 | 37070 | 7.64 | ug/L | | 98 |
| 66) dibromomethane | 4.125 | 93 | 23463 | 7.57 | ug/L | | 98 |
| 67) bromodichloromethane | 4.225 | 83 | 40513 | 7.45 | ug/L | | 98 |
| 68) epichlorohydrin | 4.424 | 57 | 23383 | 39.89 | ug/L | | 96 |
| 69) cis-1,3-dichloropropene | 4.508 | 75 | 44370 | 8.06 | ug/L | | 95 |
| 70) 4-methyl-2-pentanone | 4.586 | 58 | 67240 | 33.02 | ug/L | | 98 |
| 71) 3-methyl-1-butanol | 4.607 | 70 | 32616 | 175.15 | ug/L | | 98 |
| 74) toluene | 4.738 | 92 | 68638 | 7.92 | ug/L | | 95 |
| 75) ethyl methacrylate | 4.901 | 69 | 40225 | 8.21 | ug/L | | 99 |
| 76) trans-1,3-dichloropropene | 4.880 | 75 | 41332 | 8.36 | ug/L | | 98 |
| 77) 1,1,2-trichloroethane | 5.022 | 83 | 23950 | 8.08 | ug/L | | 98 |
| 78) 2-hexanone | 5.163 | 58 | 71275 | 33.04 | ug/L | | 99 |
| 79) tetrachloroethene | 5.106 | 164 | 26803 | 8.12 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 5.142 | 76 | 42779 | 7.79 | ug/L | | 94 |
| 81) butyl acetate | 5.237 | 56 | 22447 | 8.10 | ug/L | | 97 |
| 82) dibromochloromethane | 5.299 | 129 | 37082 | 8.09 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 5.394 | 107 | 33818 | 8.11 | ug/L | | 93 |
| 84) n-butyl ether | 5.803 | 57 | 99368 | 8.29 | ug/L | | 100 |
| 85) chlorobenzene | 5.756 | 112 | 81781 | 7.89 | ug/L | | 99 |
| 86) 1,1,1,2-tetrachloroethane | 5.813 | 131 | 31229 | 8.30 | ug/L | | 95 |
| 87) ethylbenzene | 5.819 | 91 | 126531 | 7.82 | ug/L | | 98 |
| 88) m,p-xylene | 5.918 | 106 | 97992 | 15.73 | ug/L | | 100 |
| 89) o-xylene | 6.212 | 91 | 97600 | 7.93 | ug/L | | 99 |
| 90) styrene | 6.228 | 104 | 82645 | 8.26 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92148.D
Acq On : 11 Sep 2022 6:02 pm
Operator : PrashanS
Sample : IC3747-8
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 12 11:16:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:16:26 2022
Response via : Initial Calibration

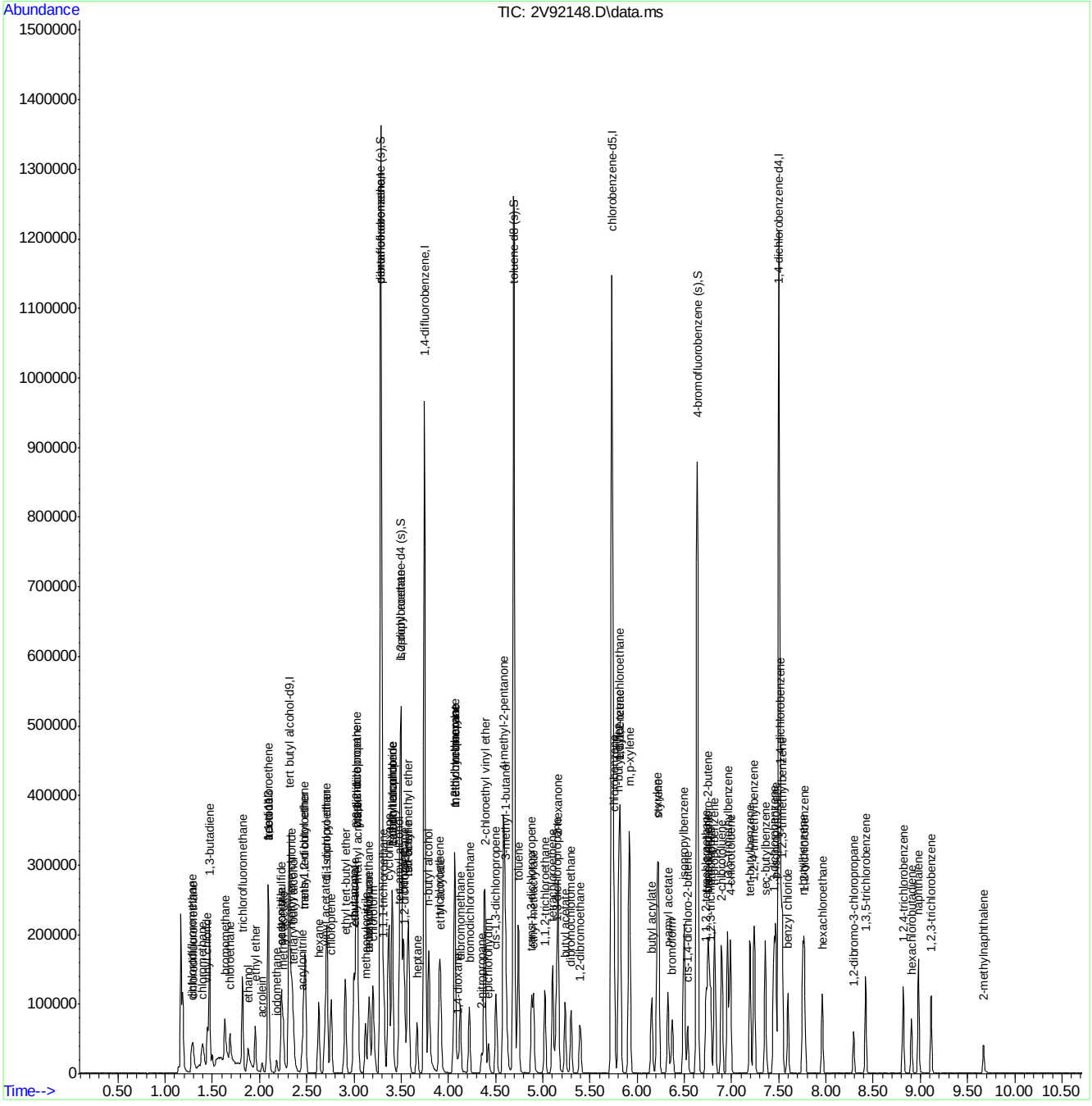
| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 91) butyl acrylate | 6.154 | 56 | 25711 | 8.81 ug/L | 97 |
| 92) n-amyl acetate | 6.327 | 70 | 22106 | 8.19 ug/L | 98 |
| 93) bromoform | 6.369 | 173 | 26912 | 8.14 ug/L | 97 |
| 94) isopropylbenzene | 6.495 | 105 | 116358 | 7.84 ug/L | 99 |
| 95) cis-1,4-dichloro-2-butene | 6.537 | 88 | 12716 | 8.10 ug/L | 93 |
| 98) bromobenzene | 6.752 | 156 | 35275 | 7.82 ug/L | 98 |
| 99) 1,1,2,2-tetrachloroethane | 6.731 | 83 | 44674 | 7.88 ug/L | 99 |
| 100) trans-1,4-dichloro-2-b... | 6.757 | 53 | 9711 | 8.02 ug/L | 99 |
| 101) 1,2,3-trichloropropane | 6.778 | 110 | 13472 | 8.08 ug/L | 99 |
| 102) n-propylbenzene | 6.820 | 91 | 131621 | 7.89 ug/L | 99 |
| 103) 2-chlorotoluene | 6.899 | 126 | 30534 | 8.16 ug/L | 95 |
| 104) 4-chlorotoluene | 6.988 | 126 | 31648 | 8.24 ug/L | 99 |
| 105) 1,3,5-trimethylbenzene | 6.962 | 105 | 89104 | 8.16 ug/L | 99 |
| 106) tert-butylbenzene | 7.197 | 119 | 76441 | 7.97 ug/L | 100 |
| 107) 1,2,4-trimethylbenzene | 7.239 | 105 | 88728 | 7.59 ug/L | 98 |
| 108) sec-butylbenzene | 7.360 | 105 | 104773 | 8.04 ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 58177 | 7.73 ug/L | 98 |
| 110) p-isopropyltoluene | 7.465 | 119 | 88657 | 8.12 ug/L | 97 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 91295 | 7.91 ug/L | 99 |
| 112) 1,4-dichlorobenzene | 7.523 | 146 | 60579 | 7.66 ug/L | 97 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 57213 | 8.14 ug/L | 100 |
| 114) benzyl chloride | 7.596 | 91 | 58280 | 8.38 ug/L | 99 |
| 115) n-butylbenzene | 7.753 | 92 | 37260 | 8.13 ug/L | 96 |
| 116) hexachloroethane | 7.963 | 201 | 12854 | 7.92 ug/L | 93 |
| 117) 1,2-dibromo-3-chloropr... | 8.293 | 157 | 11959 | 8.36 ug/L | 95 |
| 118) 1,3,5-trichlorobenzene | 8.419 | 180 | 31472 | 8.10 ug/L | 99 |
| 119) 1,2,4-trichlorobenzene | 8.818 | 180 | 27744 | 8.27 ug/L | 96 |
| 120) hexachlorobutadiene | 8.907 | 225 | 9762 | 8.02 ug/L | 96 |
| 121) naphthalene | 8.980 | 128 | 91822 | 8.05 ug/L | 100 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 25296 | 8.55 ug/L | 96 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 16392 | 4.18 ug/L | 96 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92148.D
Acq On : 11 Sep 2022 6:02 pm
Operator : PrashanS
Sample : IC3747-8
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 12 11:16:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:16:26 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92150.D
Acq On : 11 Sep 2022 6:32 pm
Operator : PrashanS
Sample : IC3747-20
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 12 11:17:12 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:17:04 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.311 | 65 | 282010 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 416711 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 3.748 | 114 | 558325 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 5.735 | 117 | 517455 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.502 | 152 | 231914 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 208342 | 50.34 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.68% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.496 | 65 | 195852 | 50.64 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 101.28% | | | | |
| 73) toluene-d8 (s) | 4.691 | 98 | 640592 | 49.57 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.14% | | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 202843 | 49.06 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.12% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.876 | 45 | 111625 | 1805.35 | ug/L | | 98 |
| 3) tertiary butyl alcohol | 2.358 | 59 | 84067 | 93.72 | ug/L | | 96 |
| 4) 1,4-dioxane | 4.099 | 88 | 37646 | 522.43 | ug/L | | 97 |
| 6) chlorodifluoromethane | 1.289 | 51 | 72017 | 18.32 | ug/L | | 99 |
| 7) dichlorodifluoromethane | 1.278 | 85 | 90718 | 19.82 | ug/L | | 98 |
| 8) chloromethane | 1.388 | 52 | 31265 | 16.80 | ug/L | | 100 |
| 9) vinyl chloride | 1.446 | 62 | 107670 | 18.31 | ug/L | | 99 |
| 10) bromomethane | 1.629 | 96 | 75229 | 17.00 | ug/L | | 99 |
| 11) chloroethane | 1.687 | 64 | 66739 | 18.16 | ug/L | | 99 |
| 12) trichlorofluoromethane | 1.818 | 101 | 148016 | 18.58 | ug/L | | 99 |
| 13) 1,3-butadiene | 1.467 | 54 | 96515 | 17.23 | ug/L | | 99 |
| 14) ethyl ether | 1.954 | 74 | 37888 | 20.34 | ug/L | | 96 |
| 15) acrolein | 2.028 | 56 | 16985 | 19.40 | ug/L | | 100 |
| 16) freon 113 | 2.086 | 151 | 61968 | 18.93 | ug/L | | 96 |
| 17) 1,1-dichloroethene | 2.091 | 61 | 93571 | 18.60 | ug/L | | 99 |
| 18) acetone | 2.096 | 58 | 39654 | 72.03 | ug/L | | 94 |
| 19) acetonitrile | 2.238 | 41 | 130138 | 181.68 | ug/L | | 98 |
| 20) iodomethane | 2.180 | 142 | 50497 | 25.15 | ug/L | | 98 |
| 21) carbon disulfide | 2.227 | 76 | 166556 | 17.54 | ug/L | | 100 |
| 22) methylene chloride | 2.337 | 84 | 66700 | 16.99 | ug/L | | 94 |
| 23) methyl acetate | 2.248 | 74 | 17993 | 18.67 | ug/L | | 88 |
| 24) methyl tert butyl ether | 2.468 | 73 | 192503 | 19.23 | ug/L | | 98 |
| 25) trans-1,2-dichloroethene | 2.484 | 96 | 66732 | 18.96 | ug/L | | 97 |
| 26) hexane | 2.626 | 56 | 35451 | 17.82 | ug/L | | 92 |
| 27) di-isopropyl ether | 2.709 | 45 | 192027 | 19.05 | ug/L | | 99 |
| 28) ethyl tert-butyl ether | 2.903 | 59 | 191552 | 19.32 | ug/L | | 98 |
| 29) 1,1-dichloroethane | 2.715 | 63 | 114088 | 18.83 | ug/L | | 100 |
| 30) chloroprene | 2.757 | 53 | 86230 | 18.96 | ug/L | | 98 |
| 31) acrylonitrile | 2.447 | 53 | 37183 | 19.98 | ug/L | | 95 |
| 32) vinyl acetate | 2.688 | 86 | 15300 | 19.12 | ug/L | # | 81 |
| 33) ethyl acetate | 3.008 | 45 | 16978 | 19.21 | ug/L | | 94 |
| 34) 2-butanone | 2.998 | 72 | 57362 | 81.25 | ug/L | | 99 |
| 35) 2,2-dichloropropane | 3.029 | 77 | 98076 | 18.44 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92150.D
Acq On : 11 Sep 2022 6:32 pm
Operator : PrashanS
Sample : IC3747-20
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 12 11:17:12 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:17:04 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 3.024 | 96 | 77680 | 19.39 | ug/L | | 99 |
| 37) propionitrile | 3.029 | 54 | 164305 | 193.65 | ug/L | | 75 |
| 38) methyl acrylate | 3.040 | 85 | 17882 | 18.98 | ug/L | # | 85 |
| 39) bromochloromethane | 3.155 | 128 | 44070 | 20.20 | ug/L | | 100 |
| 40) tetrahydrofuran | 3.166 | 71 | 16087 | 17.31 | ug/L | | 95 |
| 41) chloroform | 3.197 | 83 | 129322 | 16.77 | ug/L | | 99 |
| 43) methacrylonitrile | 3.118 | 67 | 40289 | 19.72 | ug/L | | 98 |
| 44) 1,1,1-trichloroethane | 3.318 | 97 | 114735 | 18.23 | ug/L | | 100 |
| 45) cyclohexane | 3.365 | 84 | 91556 | 19.04 | ug/L | | 92 |
| 46) 1,1-dichloropropene | 3.402 | 75 | 90898 | 18.75 | ug/L | | 99 |
| 47) carbon tetrachloride | 3.412 | 119 | 106697 | 18.98 | ug/L | | 98 |
| 48) isobutyl alcohol | 3.402 | 42 | 35352 | 186.00 | ug/L | | 96 |
| 49) tert-amyl alcohol | 3.475 | 55 | 34738 | 91.35 | ug/L | | 99 |
| 52) n-butyl alcohol | 3.790 | 56 | 196431 | 991.30 | ug/L | | 99 |
| 53) benzene | 3.522 | 78 | 249656 | 18.70 | ug/L | | 100 |
| 54) tert-amyl methyl ether | 3.575 | 73 | 198258 | 19.30 | ug/L | | 98 |
| 55) iso-octane | 3.580 | 57 | 133593 | 18.76 | ug/L | | 97 |
| 56) heptane | 3.669 | 57 | 25907 | 18.84 | ug/L | | 95 |
| 57) isopropyl acetate | 3.496 | 87 | 20968 | 19.89 | ug/L | # | 86 |
| 58) 1,2-dichloroethane | 3.538 | 62 | 104029 | 18.52 | ug/L | | 98 |
| 59) trichloroethene | 3.905 | 95 | 72126 | 18.38 | ug/L | | 98 |
| 60) ethyl acrylate | 3.921 | 55 | 117631 | 18.87 | ug/L | | 99 |
| 61) 2-nitropropane | 4.351 | 41 | 29570 | 18.50 | ug/L | | 97 |
| 62) 2-chloroethyl vinyl ether | 4.382 | 63 | 210440 | 106.69 | ug/L | | 95 |
| 63) methyl methacrylate | 4.073 | 100 | 25432 | 19.79 | ug/L | | 94 |
| 64) 1,2-dichloropropane | 4.067 | 63 | 64393 | 18.71 | ug/L | | 100 |
| 65) methylcyclohexane | 4.062 | 83 | 90181 | 18.70 | ug/L | | 99 |
| 66) dibromomethane | 4.125 | 93 | 55989 | 18.20 | ug/L | | 96 |
| 67) bromodichloromethane | 4.225 | 83 | 98542 | 18.30 | ug/L | | 99 |
| 68) epichlorohydrin | 4.424 | 57 | 56427 | 96.29 | ug/L | | 94 |
| 69) cis-1,3-dichloropropene | 4.503 | 75 | 107341 | 19.47 | ug/L | | 99 |
| 70) 4-methyl-2-pentanone | 4.586 | 58 | 163533 | 79.92 | ug/L | | 97 |
| 71) 3-methyl-1-butanol | 4.607 | 70 | 83617 | 441.97 | ug/L | | 97 |
| 74) toluene | 4.739 | 92 | 158474 | 18.09 | ug/L | | 99 |
| 75) ethyl methacrylate | 4.901 | 69 | 98386 | 19.75 | ug/L | | 99 |
| 76) trans-1,3-dichloropropene | 4.880 | 75 | 100887 | 20.04 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 5.022 | 83 | 57236 | 19.05 | ug/L | | 98 |
| 78) 2-hexanone | 5.163 | 58 | 173454 | 79.08 | ug/L | | 99 |
| 79) tetrachloroethene | 5.106 | 164 | 61861 | 18.47 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 5.142 | 76 | 105050 | 18.97 | ug/L | | 98 |
| 81) butyl acetate | 5.237 | 56 | 54051 | 19.23 | ug/L | | 97 |
| 82) dibromochloromethane | 5.300 | 129 | 90490 | 19.48 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 5.394 | 107 | 79988 | 18.91 | ug/L | | 98 |
| 84) n-butyl ether | 5.803 | 57 | 240951 | 19.76 | ug/L | | 100 |
| 85) chlorobenzene | 5.756 | 112 | 194570 | 18.59 | ug/L | | 99 |
| 86) 1,1,1,2-tetrachloroethane | 5.813 | 131 | 78970 | 20.62 | ug/L | | 99 |
| 87) ethylbenzene | 5.819 | 91 | 301847 | 18.50 | ug/L | | 99 |
| 88) m,p-xylene | 5.918 | 106 | 235420 | 37.42 | ug/L | | 99 |
| 89) o-xylene | 6.212 | 91 | 235046 | 18.90 | ug/L | | 100 |
| 90) styrene | 6.228 | 104 | 201774 | 19.84 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92150.D
Acq On : 11 Sep 2022 6:32 pm
Operator : PrashanS
Sample : IC3747-20
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 12 11:17:12 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:17:04 2022
Response via : Initial Calibration

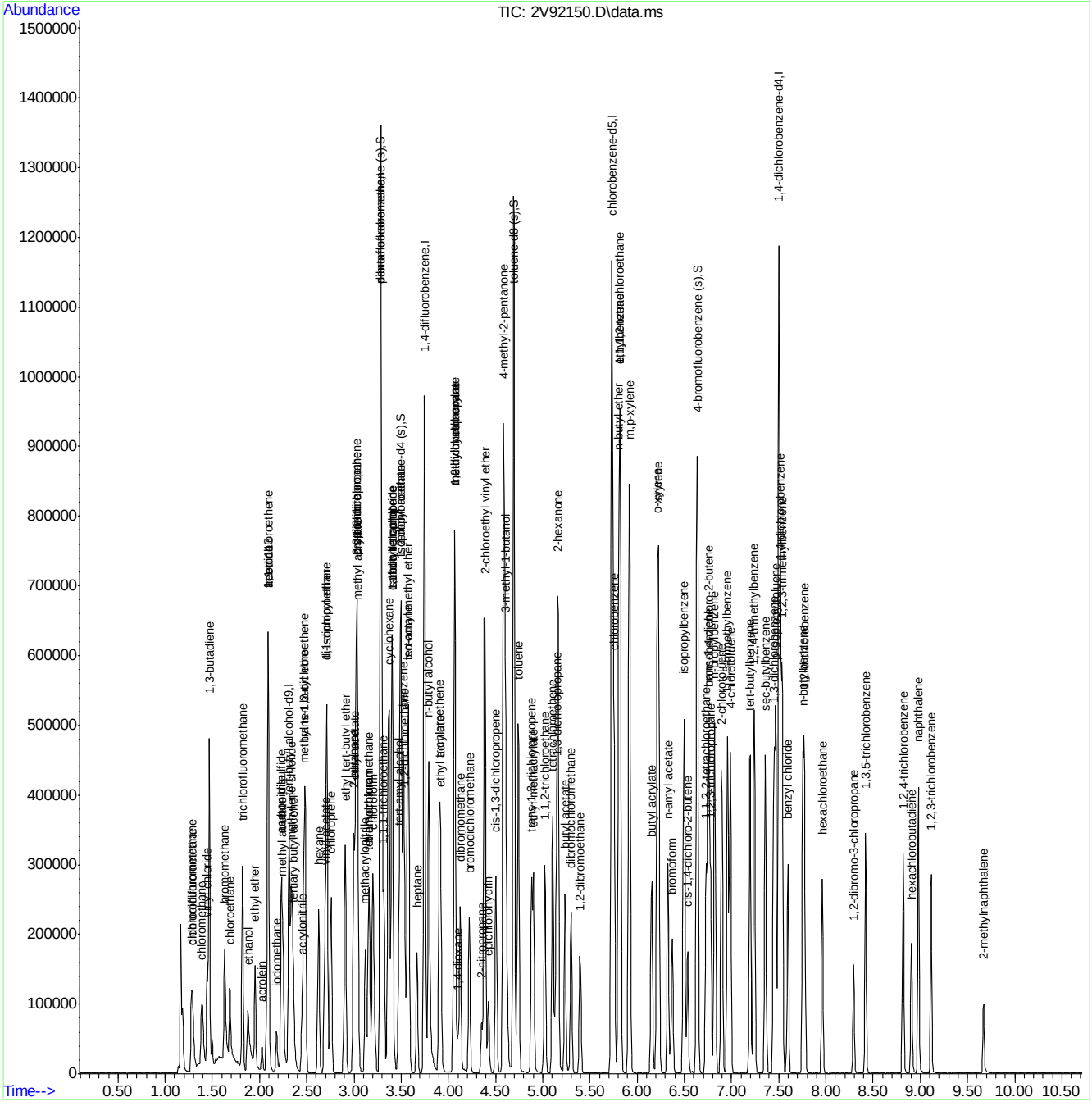
| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 91) butyl acrylate | 6.154 | 56 | 63996 | 21.36 ug/L | 95 |
| 92) n-amyl acetate | 6.327 | 70 | 54287 | 19.77 ug/L | 100 |
| 93) bromoform | 6.374 | 173 | 69198 | 20.61 ug/L | 98 |
| 94) isopropylbenzene | 6.495 | 105 | 279305 | 18.65 ug/L | 99 |
| 95) cis-1,4-dichloro-2-butene | 6.537 | 88 | 34266 | 21.52 ug/L | 97 |
| 98) bromobenzene | 6.752 | 156 | 85426 | 18.80 ug/L | 98 |
| 99) 1,1,2,2-tetrachloroethane | 6.731 | 83 | 106141 | 18.56 ug/L | 100 |
| 100) trans-1,4-dichloro-2-b... | 6.757 | 53 | 25799 | 21.07 ug/L | 95 |
| 101) 1,2,3-trichloropropane | 6.778 | 110 | 32538 | 19.28 ug/L | 97 |
| 102) n-propylbenzene | 6.820 | 91 | 314519 | 18.70 ug/L | 100 |
| 103) 2-chlorotoluene | 6.893 | 126 | 72707 | 19.17 ug/L | 97 |
| 104) 4-chlorotoluene | 6.988 | 126 | 76765 | 19.70 ug/L | 97 |
| 105) 1,3,5-trimethylbenzene | 6.962 | 105 | 213769 | 19.33 ug/L | 99 |
| 106) tert-butylbenzene | 7.197 | 119 | 182488 | 18.84 ug/L | 99 |
| 107) 1,2,4-trimethylbenzene | 7.239 | 105 | 213621 | 18.23 ug/L | 98 |
| 108) sec-butylbenzene | 7.360 | 105 | 249550 | 18.94 ug/L | 100 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 141186 | 18.66 ug/L | 99 |
| 110) p-isopropyltoluene | 7.465 | 119 | 214847 | 19.43 ug/L | 99 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 220039 | 18.90 ug/L | 99 |
| 112) 1,4-dichlorobenzene | 7.523 | 146 | 147943 | 18.63 ug/L | 99 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 137060 | 19.25 ug/L | 99 |
| 114) benzyl chloride | 7.596 | 91 | 150189 | 21.22 ug/L | 99 |
| 115) n-butylbenzene | 7.753 | 92 | 90989 | 19.60 ug/L | 96 |
| 116) hexachloroethane | 7.963 | 201 | 31795 | 19.42 ug/L | 97 |
| 117) 1,2-dibromo-3-chloropr... | 8.293 | 157 | 30352 | 20.84 ug/L | 96 |
| 118) 1,3,5-trichlorobenzene | 8.419 | 180 | 78317 | 19.92 ug/L | 98 |
| 119) 1,2,4-trichlorobenzene | 8.818 | 180 | 68203 | 20.02 ug/L | 99 |
| 120) hexachlorobutadiene | 8.907 | 225 | 24440 | 19.87 ug/L | 94 |
| 121) naphthalene | 8.980 | 128 | 228601 | 19.82 ug/L | 99 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 65017 | 21.53 ug/L | 96 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 38716 | 9.70 ug/L | 91 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92150.D
Acq On : 11 Sep 2022 6:32 pm
Operator : PrashanS
Sample : IC3747-20
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 12 11:17:12 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:17:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92152.D
Acq On : 11 Sep 2022 7:01 pm
Operator : PrashanS
Sample : ICC3747-50
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 12 11:07:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:07:51 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 301085 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 436873 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 591746 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.735 | 117 | 554834 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.501 | 152 | 241767 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 219151 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.496 | 65 | 212708 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.00% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 670613 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 217453 | 50.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) ethanol | 1.876 | 45 | 276565 | 5000.00 | ug/L | 100 |
| 3) tertiary butyl alcohol | 2.358 | 59 | 221785 | 250.00 | ug/L | 100 |
| 4) 1,4-dioxane | 4.104 | 88 | 96474 | 1250.00 | ug/L | 100 |
| 6) chlorodifluoromethane | 1.294 | 51 | 195342 | 50.00 | ug/L | 100 |
| 7) dichlorodifluoromethane | 1.278 | 85 | 242982 | 50.00 | ug/L | 100 |
| 8) chloromethane | 1.393 | 52 | 82011 | 50.00 | ug/L | 100 |
| 9) vinyl chloride | 1.446 | 62 | 287875 | 50.00 | ug/L | 100 |
| 10) bromomethane | 1.629 | 96 | 201752 | 50.00 | ug/L | 100 |
| 11) chloroethane | 1.682 | 64 | 190991 | 50.00 | ug/L | 100 |
| 12) trichlorofluoromethane | 1.818 | 101 | 468078 | 50.00 | ug/L | 100 |
| 13) 1,3-butadiene | 1.467 | 54 | 247841 | 50.00 | ug/L | 100 |
| 14) ethyl ether | 1.954 | 74 | 106284 | 50.00 | ug/L | 100 |
| 15) acrolein | 2.028 | 56 | 45135 | 50.00 | ug/L | 100 |
| 16) freon 113 | 2.085 | 151 | 172816 | 50.00 | ug/L | 100 |
| 17) 1,1-dichloroethene | 2.091 | 61 | 265012 | 50.00 | ug/L | 100 |
| 18) acetone | 2.096 | 58 | 104447 | 200.00 | ug/L | 100 |
| 19) acetonitrile | 2.237 | 41 | 335158 | 500.00 | ug/L | 100 |
| 20) iodomethane | 2.180 | 142 | 181322 | 50.00 | ug/L | 100 |
| 21) carbon disulfide | 2.227 | 76 | 448129 | 50.00 | ug/L | 100 |
| 22) methylene chloride | 2.342 | 84 | 178460 | 50.00 | ug/L | 100 |
| 23) methyl acetate | 2.253 | 74 | 49433 | 50.00 | ug/L | 100 |
| 24) methyl tert butyl ether | 2.473 | 73 | 541997 | 50.00 | ug/L | 100 |
| 25) trans-1,2-dichloroethene | 2.484 | 96 | 186289 | 50.00 | ug/L | 100 |
| 26) hexane | 2.625 | 56 | 102951 | 50.00 | ug/L | 100 |
| 27) di-isopropyl ether | 2.709 | 45 | 528230 | 50.00 | ug/L | 100 |
| 28) ethyl tert-butyl ether | 2.909 | 59 | 528261 | 50.00 | ug/L | 100 |
| 29) 1,1-dichloroethane | 2.715 | 63 | 320003 | 50.00 | ug/L | 100 |
| 30) chloroprene | 2.757 | 53 | 241997 | 50.00 | ug/L | 100 |
| 31) acrylonitrile | 2.447 | 53 | 96626 | 50.00 | ug/L | 100 |
| 32) vinyl acetate | 2.694 | 86 | 45392 | 50.00 | ug/L | 100 |
| 33) ethyl acetate | 3.008 | 45 | 46873 | 50.00 | ug/L | 100 |
| 34) 2-butanone | 2.998 | 72 | 155802 | 200.00 | ug/L | 100 |
| 35) 2,2-dichloropropane | 3.034 | 77 | 278164 | 50.00 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92152.D
Acq On : 11 Sep 2022 7:01 pm
Operator : PrashanS
Sample : ICC3747-50
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 12 11:07:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:07:51 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 3.024 | 96 | 221767 | 50.00 | ug/L | 100 |
| 37) propionitrile | 3.034 | 54 | 429743 | 500.00 | ug/L | 100 |
| 38) methyl acrylate | 3.045 | 85 | 49949 | 50.00 | ug/L | 100 |
| 39) bromochloromethane | 3.155 | 128 | 114773 | 50.00 | ug/L | 100 |
| 40) tetrahydrofuran | 3.165 | 71 | 41840 | 50.00 | ug/L | 100 |
| 41) chloroform | 3.202 | 83 | 353472 | 50.00 | ug/L | 100 |
| 43) methacrylonitrile | 3.124 | 67 | 105942 | 50.00 | ug/L | 100 |
| 44) 1,1,1-trichloroethane | 3.318 | 97 | 319074 | 50.00 | ug/L | 100 |
| 45) cyclohexane | 3.370 | 84 | 252185 | 50.00 | ug/L | 100 |
| 46) 1,1-dichloropropene | 3.401 | 75 | 258109 | 50.00 | ug/L | 100 |
| 47) carbon tetrachloride | 3.412 | 119 | 309264 | 50.00 | ug/L | 100 |
| 48) isobutyl alcohol | 3.401 | 42 | 89948 | 500.00 | ug/L | 100 |
| 49) tert-amyl alcohol | 3.480 | 55 | 87113 | 250.00 | ug/L | 100 |
| 52) n-butyl alcohol | 3.795 | 56 | 530563 | 2500.00 | ug/L | 100 |
| 53) benzene | 3.522 | 78 | 685352 | 50.00 | ug/L | 100 |
| 54) tert-amyl methyl ether | 3.574 | 73 | 550053 | 50.00 | ug/L | 100 |
| 55) iso-octane | 3.574 | 57 | 368584 | 50.00 | ug/L | 100 |
| 56) heptane | 3.669 | 57 | 71493 | 50.00 | ug/L | 100 |
| 57) isopropyl acetate | 3.501 | 87 | 56064 | 50.00 | ug/L | 100 |
| 58) 1,2-dichloroethane | 3.538 | 62 | 277809 | 50.00 | ug/L | 100 |
| 59) trichloroethene | 3.905 | 95 | 206347 | 50.00 | ug/L | 100 |
| 60) ethyl acrylate | 3.920 | 55 | 319648 | 50.00 | ug/L | 100 |
| 61) 2-nitropropane | 4.356 | 41 | 84846 | 50.00 | ug/L | 100 |
| 62) 2-chloroethyl vinyl ether | 4.387 | 63 | 593205 | 250.00 | ug/L | 100 |
| 63) methyl methacrylate | 4.073 | 100 | 71410 | 50.00 | ug/L | 100 |
| 64) 1,2-dichloropropane | 4.067 | 63 | 183374 | 50.00 | ug/L | 100 |
| 65) methylcyclohexane | 4.062 | 83 | 257548 | 50.00 | ug/L | 100 |
| 66) dibromomethane | 4.125 | 93 | 154281 | 50.00 | ug/L | 100 |
| 67) bromodichloromethane | 4.225 | 83 | 278759 | 50.00 | ug/L | 100 |
| 68) epichlorohydrin | 4.424 | 57 | 151824 | 250.00 | ug/L | 100 |
| 69) cis-1,3-dichloropropene | 4.502 | 75 | 301575 | 50.00 | ug/L | 100 |
| 70) 4-methyl-2-pentanone | 4.586 | 58 | 451097 | 200.00 | ug/L | 100 |
| 71) 3-methyl-1-butanol | 4.607 | 70 | 231983 | 1000.00 | ug/L | 100 |
| 74) toluene | 4.738 | 92 | 439938 | 50.00 | ug/L | 100 |
| 75) ethyl methacrylate | 4.901 | 69 | 273348 | 50.00 | ug/L | 100 |
| 76) trans-1,3-dichloropropene | 4.880 | 75 | 287700 | 50.00 | ug/L | 100 |
| 77) 1,1,2-trichloroethane | 5.022 | 83 | 158591 | 50.00 | ug/L | 100 |
| 78) 2-hexanone | 5.163 | 58 | 472686 | 200.00 | ug/L | 100 |
| 79) tetrachloroethene | 5.105 | 164 | 178349 | 50.00 | ug/L | 100 |
| 80) 1,3-dichloropropane | 5.142 | 76 | 293692 | 50.00 | ug/L | 100 |
| 81) butyl acetate | 5.236 | 56 | 147451 | 50.00 | ug/L | 100 |
| 82) dibromochloromethane | 5.299 | 129 | 257424 | 50.00 | ug/L | 100 |
| 83) 1,2-dibromoethane | 5.394 | 107 | 222536 | 50.00 | ug/L | 100 |
| 84) n-butyl ether | 5.803 | 57 | 677257 | 50.00 | ug/L | 100 |
| 85) chlorobenzene | 5.756 | 112 | 543236 | 50.00 | ug/L | 100 |
| 86) 1,1,1,2-tetrachloroethane | 5.813 | 131 | 231047 | 50.00 | ug/L | 100 |
| 87) ethylbenzene | 5.818 | 91 | 861883 | 50.00 | ug/L | 100 |
| 88) m,p-xylene | 5.918 | 106 | 667613 | 100.00 | ug/L | 100 |
| 89) o-xylene | 6.217 | 91 | 676049 | 50.00 | ug/L | 100 |
| 90) styrene | 6.227 | 104 | 567035 | 50.00 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92152.D
Acq On : 11 Sep 2022 7:01 pm
Operator : PrashanS
Sample : ICC3747-50
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 12 11:07:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:07:51 2022
Response via : Initial Calibration

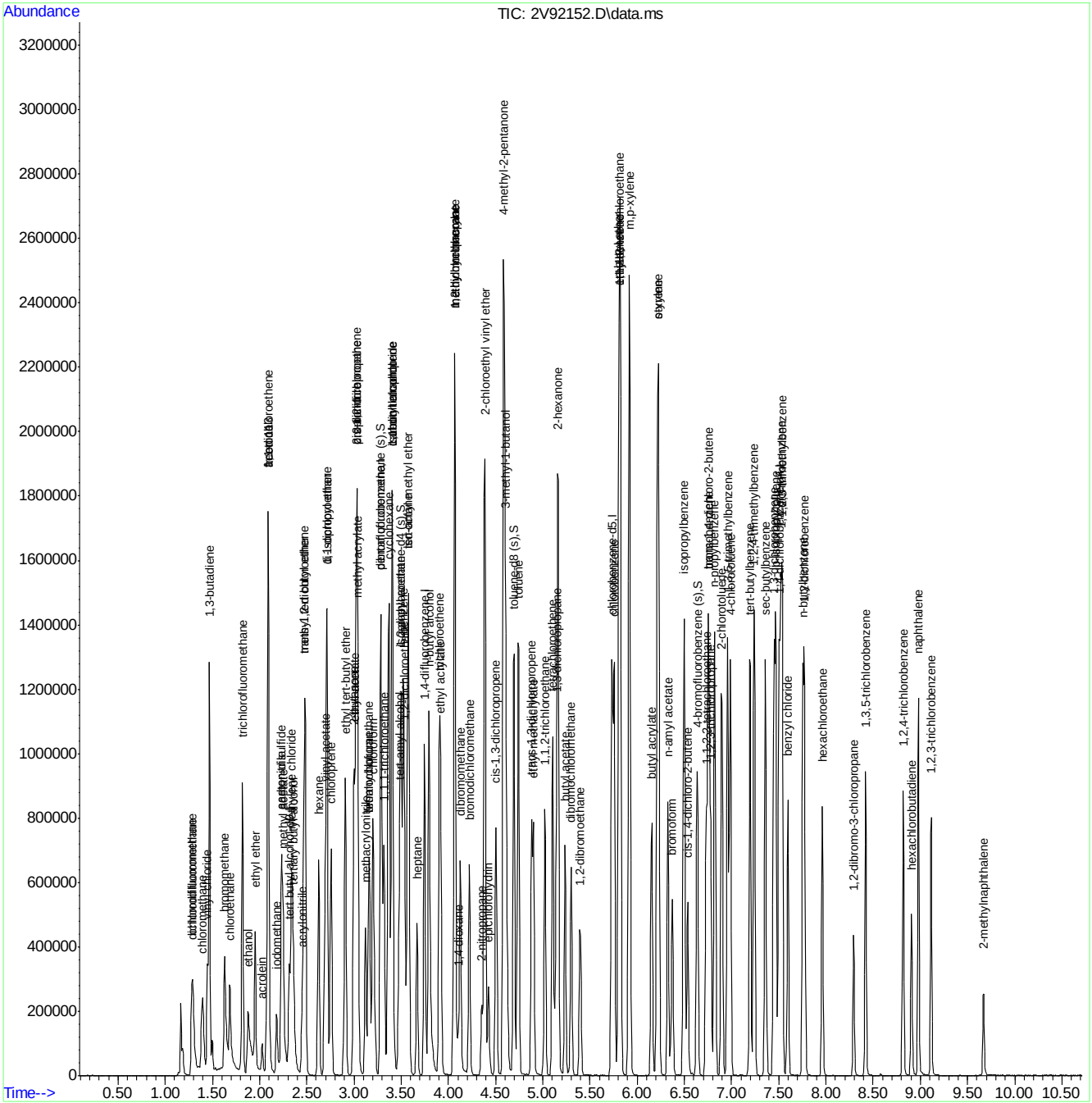
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) butyl acrylate | 6.154 | 56 | 175627 | 50.00 | ug/L | 100 |
| 92) n-amyl acetate | 6.327 | 70 | 150748 | 50.00 | ug/L | 100 |
| 93) bromoform | 6.374 | 173 | 199134 | 50.00 | ug/L | 100 |
| 94) isopropylbenzene | 6.495 | 105 | 787967 | 50.00 | ug/L | 100 |
| 95) cis-1,4-dichloro-2-butene | 6.537 | 88 | 106005 | 50.00 | ug/L | 100 |
| 98) bromobenzene | 6.752 | 156 | 244006 | 50.00 | ug/L | 100 |
| 99) 1,1,2,2-tetrachloroethane | 6.731 | 83 | 294322 | 50.00 | ug/L | 100 |
| 100) trans-1,4-dichloro-2-b... | 6.757 | 53 | 77226 | 50.00 | ug/L | 100 |
| 101) 1,2,3-trichloropropane | 6.778 | 110 | 88495 | 50.00 | ug/L | 100 |
| 102) n-propylbenzene | 6.820 | 91 | 869304 | 50.00 | ug/L | 100 |
| 103) 2-chlorotoluene | 6.899 | 126 | 203170 | 50.00 | ug/L | 100 |
| 104) 4-chlorotoluene | 6.988 | 126 | 209276 | 50.00 | ug/L | 100 |
| 105) 1,3,5-trimethylbenzene | 6.961 | 105 | 592260 | 50.00 | ug/L | 100 |
| 106) tert-butylbenzene | 7.197 | 119 | 513786 | 50.00 | ug/L | 100 |
| 107) 1,2,4-trimethylbenzene | 7.239 | 105 | 596635 | 50.00 | ug/L | 100 |
| 108) sec-butylbenzene | 7.360 | 105 | 693412 | 50.00 | ug/L | 100 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 395438 | 50.00 | ug/L | 100 |
| 110) p-isopropyltoluene | 7.470 | 119 | 592791 | 50.00 | ug/L | 100 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 595948 | 50.00 | ug/L | 100 |
| 112) 1,4-dichlorobenzene | 7.522 | 146 | 405490 | 50.00 | ug/L | 100 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 375807 | 50.00 | ug/L | 100 |
| 114) benzyl chloride | 7.596 | 91 | 420547 | 50.00 | ug/L | 100 |
| 115) n-butylbenzene | 7.753 | 92 | 257874 | 50.00 | ug/L | 100 |
| 116) hexachloroethane | 7.963 | 201 | 96812 | 50.00 | ug/L | 100 |
| 117) 1,2-dibromo-3-chloropr... | 8.293 | 157 | 84878 | 50.00 | ug/L | 100 |
| 118) 1,3,5-trichlorobenzene | 8.419 | 180 | 212038 | 50.00 | ug/L | 100 |
| 119) 1,2,4-trichlorobenzene | 8.817 | 180 | 187746 | 50.00 | ug/L | 100 |
| 120) hexachlorobutadiene | 8.907 | 225 | 62844 | 50.00 | ug/L | 100 |
| 121) naphthalene | 8.980 | 128 | 636795 | 50.00 | ug/L | 100 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 173235 | 50.00 | ug/L | 100 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 100096 | 25.00 | ug/L | 100 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92152.D
Acq On : 11 Sep 2022 7:01 pm
Operator : PrashanS
Sample : ICC3747-50
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 12 11:07:58 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:07:51 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92154.D
Acq On : 11 Sep 2022 7:30 pm
Operator : PrashanS
Sample : IC3747-100
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 12 11:17:49 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:17:39 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 299010 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 437747 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 587251 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 5.735 | 117 | 559694 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.501 | 152 | 231415 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 218472 | 50.20 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.40% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.496 | 65 | 218149 | 53.55 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 107.10% | | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 656219 | 47.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.00% | | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 211007 | 51.27 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.54% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.881 | 45 | 561958 | 8692.89 | ug/L | | 98 |
| 3) tertiary butyl alcohol | 2.363 | 59 | 463202 | 490.90 | ug/L | | 97 |
| 4) 1,4-dioxane | 4.104 | 88 | 195030 | 2533.71 | ug/L | | 95 |
| 6) chlorodifluoromethane | 1.288 | 51 | 417645 | 102.37 | ug/L | | 98 |
| 7) dichlorodifluoromethane | 1.278 | 85 | 530175 | 110.38 | ug/L | | 100 |
| 8) chloromethane | 1.393 | 52 | 166918 | 87.37 | ug/L | | 99 |
| 9) vinyl chloride | 1.451 | 62 | 581551 | 95.16 | ug/L | | 99 |
| 10) bromomethane | 1.629 | 96 | 335454 | 74.02 | ug/L | | 99 |
| 11) chloroethane | 1.682 | 64 | 371963 | 97.87 | ug/L | | 99 |
| 12) trichlorofluoromethane | 1.818 | 101 | 1138576 | 137.25 | ug/L | | 100 |
| 13) 1,3-butadiene | 1.467 | 54 | 476773 | 82.67 | ug/L | | 100 |
| 14) ethyl ether | 1.954 | 74 | 246708 | 125.79 | ug/L | | 95 |
| 15) acrolein | 2.028 | 56 | 101002 | 110.31 | ug/L | | 99 |
| 16) freon 113 | 2.085 | 151 | 383731 | 112.33 | ug/L | | 97 |
| 17) 1,1-dichloroethene | 2.091 | 61 | 568148 | 108.46 | ug/L | | 98 |
| 18) acetone | 2.096 | 58 | 221500 | 387.86 | ug/L | | 100 |
| 19) acetonitrile | 2.243 | 41 | 681798 | 918.12 | ug/L | | 98 |
| 20) iodomethane | 2.180 | 142 | 390772 | 176.19 | ug/L | | 99 |
| 21) carbon disulfide | 2.227 | 76 | 954729 | 97.41 | ug/L | | 99 |
| 22) methylene chloride | 2.342 | 84 | 376636 | 93.31 | ug/L | | 97 |
| 23) methyl acetate | 2.253 | 74 | 105874 | 105.73 | ug/L | | 98 |
| 24) methyl tert butyl ether | 2.473 | 73 | 1177561 | 112.50 | ug/L | | 99 |
| 25) trans-1,2-dichloroethene | 2.484 | 96 | 401060 | 109.19 | ug/L | | 98 |
| 26) hexane | 2.625 | 56 | 217019 | 105.26 | ug/L | | 97 |
| 27) di-isopropyl ether | 2.709 | 45 | 1108557 | 105.34 | ug/L | | 98 |
| 28) ethyl tert-butyl ether | 2.909 | 59 | 1136457 | 109.60 | ug/L | | 99 |
| 29) 1,1-dichloroethane | 2.715 | 63 | 677863 | 107.31 | ug/L | | 99 |
| 30) chloroprene | 2.756 | 53 | 507899 | 107.00 | ug/L | | 100 |
| 31) acrylonitrile | 2.452 | 53 | 210046 | 107.47 | ug/L | | 99 |
| 32) vinyl acetate | 2.694 | 86 | 97964 | 117.41 | ug/L | | 94 |
| 33) ethyl acetate | 3.008 | 45 | 101272 | 109.81 | ug/L | | 94 |
| 34) 2-butanone | 2.998 | 72 | 337312 | 453.95 | ug/L | # | 92 |
| 35) 2,2-dichloropropane | 3.034 | 77 | 606966 | 109.72 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92154.D
Acq On : 11 Sep 2022 7:30 pm
Operator : PrashanS
Sample : IC3747-100
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 12 11:17:49 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:17:39 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) cis-1,2-dichloroethene | 3.024 | 96 | 477789 | 113.95 | ug/L | | 98 |
| 37) propionitrile | 3.034 | 54 | 892874 | 1005.77 | ug/L | | 99 |
| 38) methyl acrylate | 3.045 | 85 | 110075 | 112.16 | ug/L | | 98 |
| 39) bromochloromethane | 3.160 | 128 | 220534 | 96.09 | ug/L | | 93 |
| 40) tetrahydrofuran | 3.171 | 71 | 87914 | 92.54 | ug/L | | 91 |
| 41) chloroform | 3.202 | 83 | 742379 | 94.20 | ug/L | | 98 |
| 43) methacrylonitrile | 3.123 | 67 | 223215 | 104.22 | ug/L | | 99 |
| 44) 1,1,1-trichloroethane | 3.317 | 97 | 676469 | 103.46 | ug/L | | 99 |
| 45) cyclohexane | 3.365 | 84 | 554376 | 110.43 | ug/L | # | 83 |
| 46) 1,1-dichloropropene | 3.401 | 75 | 550911 | 109.05 | ug/L | | 99 |
| 47) carbon tetrachloride | 3.412 | 119 | 681309 | 116.11 | ug/L | | 100 |
| 48) isobutyl alcohol | 3.407 | 42 | 179209 | 908.19 | ug/L | | 98 |
| 49) tert-amyl alcohol | 3.480 | 55 | 175234 | 444.14 | ug/L | | 86 |
| 52) n-butyl alcohol | 3.795 | 56 | 1126505 | 5411.70 | ug/L | | 99 |
| 53) benzene | 3.522 | 78 | 1455828 | 104.53 | ug/L | | 99 |
| 54) tert-amyl methyl ether | 3.574 | 73 | 1190913 | 110.70 | ug/L | | 99 |
| 55) iso-octane | 3.574 | 57 | 783419 | 105.42 | ug/L | | 99 |
| 56) heptane | 3.669 | 57 | 146403 | 102.05 | ug/L | | 98 |
| 57) isopropyl acetate | 3.501 | 87 | 123638 | 111.59 | ug/L | | 97 |
| 58) 1,2-dichloroethane | 3.538 | 62 | 590054 | 100.94 | ug/L | | 99 |
| 59) trichloroethene | 3.910 | 95 | 443217 | 108.48 | ug/L | | 94 |
| 60) ethyl acrylate | 3.920 | 55 | 680907 | 104.69 | ug/L | | 100 |
| 61) 2-nitropropane | 4.356 | 41 | 199791 | 120.37 | ug/L | | 97 |
| 62) 2-chloroethyl vinyl ether | 4.387 | 63 | 1310625 | 626.48 | ug/L | | 99 |
| 63) methyl methacrylate | 4.072 | 100 | 162438 | 120.37 | ug/L | # | 88 |
| 64) 1,2-dichloropropane | 4.067 | 63 | 396751 | 110.61 | ug/L | | 97 |
| 65) methylcyclohexane | 4.067 | 83 | 567733 | 112.82 | ug/L | | 98 |
| 66) dibromomethane | 4.125 | 93 | 331189 | 103.52 | ug/L | | 100 |
| 67) bromodichloromethane | 4.225 | 83 | 586793 | 104.70 | ug/L | | 99 |
| 68) epichlorohydrin | 4.429 | 57 | 311185 | 508.00 | ug/L | | 93 |
| 69) cis-1,3-dichloropropene | 4.508 | 75 | 642010 | 111.09 | ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 4.586 | 58 | 984533 | 457.51 | ug/L | | 96 |
| 71) 3-methyl-1-butanol | 4.607 | 70 | 484264 | 2397.61 | ug/L | | 97 |
| 74) toluene | 4.744 | 92 | 935895 | 99.94 | ug/L | | 99 |
| 75) ethyl methacrylate | 4.906 | 69 | 583001 | 108.38 | ug/L | | 96 |
| 76) trans-1,3-dichloropropene | 4.880 | 75 | 619105 | 113.67 | ug/L | | 100 |
| 77) 1,1,2-trichloroethane | 5.021 | 83 | 339025 | 104.95 | ug/L | | 97 |
| 78) 2-hexanone | 5.163 | 58 | 1001418 | 422.73 | ug/L | | 98 |
| 79) tetrachloroethene | 5.105 | 164 | 380900 | 106.17 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 5.142 | 76 | 624018 | 104.86 | ug/L | | 99 |
| 81) butyl acetate | 5.236 | 56 | 310089 | 102.51 | ug/L | | 97 |
| 82) dibromochloromethane | 5.299 | 129 | 556823 | 111.18 | ug/L | | 100 |
| 83) 1,2-dibromoethane | 5.394 | 107 | 472842 | 104.06 | ug/L | | 99 |
| 84) n-butyl ether | 5.803 | 57 | 1445068 | 109.74 | ug/L | | 99 |
| 85) chlorobenzene | 5.755 | 112 | 1167594 | 104.05 | ug/L | | 100 |
| 86) 1,1,1,2-tetrachloroethane | 5.813 | 131 | 528532 | 127.09 | ug/L | | 99 |
| 87) ethylbenzene | 5.818 | 91 | 1867524 | 106.81 | ug/L | | 100 |
| 88) m,p-xylene | 5.918 | 106 | 1460916 | 216.46 | ug/L | | 96 |
| 89) o-xylene | 6.217 | 91 | 1450582 | 108.57 | ug/L | | 98 |
| 90) styrene | 6.227 | 104 | 1240637 | 112.88 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92154.D
Acq On : 11 Sep 2022 7:30 pm
Operator : PrashanS
Sample : IC3747-100
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 12 11:17:49 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:17:39 2022
Response via : Initial Calibration

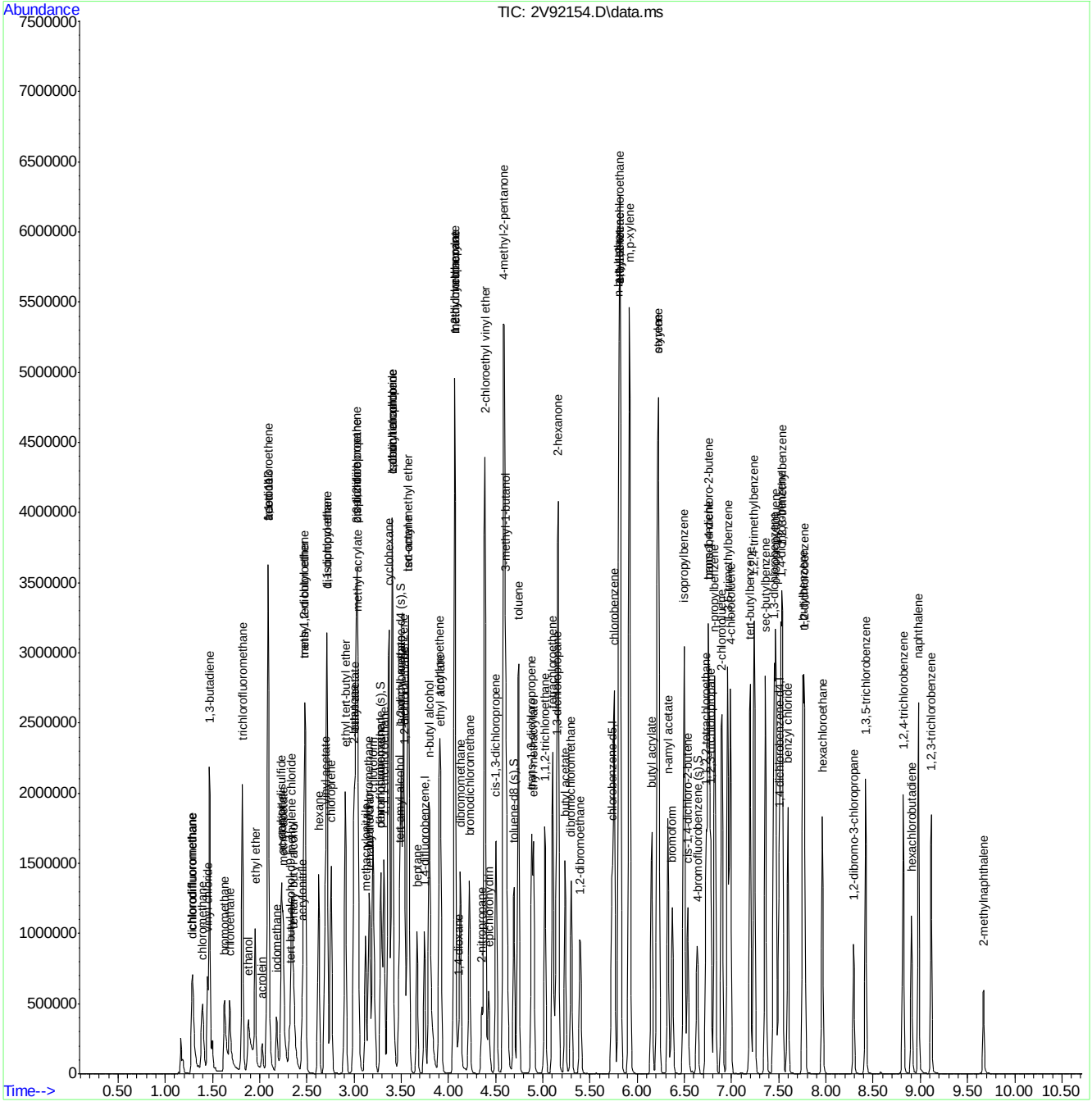
| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 91) butyl acrylate | 6.154 | 56 | 378292 | 115.75 ug/L | 95 |
| 92) n-amyl acetate | 6.327 | 70 | 315320 | 106.37 ug/L | 97 |
| 93) bromoform | 6.374 | 173 | 429652 | 117.81 ug/L | 100 |
| 94) isopropylbenzene | 6.495 | 105 | 1662142 | 103.46 ug/L | 100 |
| 95) cis-1,4-dichloro-2-butene | 6.537 | 88 | 231912 | 132.97 ug/L | 98 |
| 98) bromobenzene | 6.752 | 156 | 530719 | 117.95 ug/L | 99 |
| 99) 1,1,2,2-tetrachloroethane | 6.731 | 83 | 619338 | 109.53 ug/L | 100 |
| 100) trans-1,4-dichloro-2-b... | 6.762 | 53 | 170950 | 138.68 ug/L | 93 |
| 101) 1,2,3-trichloropropane | 6.778 | 110 | 185860 | 110.95 ug/L | 100 |
| 102) n-propylbenzene | 6.825 | 91 | 1795244 | 107.82 ug/L | 97 |
| 103) 2-chlorotoluene | 6.898 | 126 | 429377 | 114.06 ug/L | 98 |
| 104) 4-chlorotoluene | 6.988 | 126 | 438331 | 112.97 ug/L | 100 |
| 105) 1,3,5-trimethylbenzene | 6.961 | 105 | 1241294 | 112.93 ug/L | 99 |
| 106) tert-butylbenzene | 7.197 | 119 | 1080917 | 112.67 ug/L | 99 |
| 107) 1,2,4-trimethylbenzene | 7.239 | 105 | 1274237 | 110.19 ug/L | 99 |
| 108) sec-butylbenzene | 7.360 | 105 | 1450966 | 111.09 ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 853000 | 113.93 ug/L | 100 |
| 110) p-isopropyltoluene | 7.470 | 119 | 1261874 | 114.76 ug/L | 100 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 1277663 | 110.75 ug/L | 100 |
| 112) 1,4-dichlorobenzene | 7.522 | 146 | 868577 | 110.55 ug/L | 99 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 804136 | 113.72 ug/L | 99 |
| 114) benzyl chloride | 7.596 | 91 | 900905 | 126.62 ug/L | 100 |
| 115) n-butylbenzene | 7.753 | 92 | 552035 | 119.48 ug/L | 99 |
| 116) hexachloroethane | 7.963 | 201 | 211214 | 129.91 ug/L | 99 |
| 117) 1,2-dibromo-3-chloropr... | 8.293 | 157 | 184098 | 125.91 ug/L | 97 |
| 118) 1,3,5-trichlorobenzene | 8.419 | 180 | 468692 | 119.52 ug/L | 100 |
| 119) 1,2,4-trichlorobenzene | 8.817 | 180 | 423376 | 124.54 ug/L | 98 |
| 120) hexachlorobutadiene | 8.907 | 225 | 139386 | 113.69 ug/L | 99 |
| 121) naphthalene | 8.980 | 128 | 1411264 | 122.77 ug/L | 99 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 384667 | 126.44 ug/L | 100 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 224015 | 56.51 ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92154.D
Acq On : 11 Sep 2022 7:30 pm
Operator : PrashanS
Sample : IC3747-100
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 12 11:17:49 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:17:39 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92156.D
Acq On : 11 Sep 2022 8:00 pm
Operator : PrashanS
Sample : IC3747-200
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 11:35:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:18:33 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 306273 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.281 | 168 | 447073 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 610685 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 5.735 | 117 | 590673 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.507 | 152 | 239721 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 42) dibromofluoromethane (s) | 3.286 | 113 | 228223 | 51.33 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.66% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.496 | 65 | 243504 | 57.03 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 114.06% | | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 682647 | 46.64 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.28% | | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 216149 | 50.56 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.12% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.881 | 45 | 776348 | 11919.23 | ug/L | | 100 |
| 3) tertiary butyl alcohol | 2.363 | 59 | 859531 | 891.12 | ug/L | | 85 |
| 4) 1,4-dioxane | 4.114 | 88 | 360532 | 4563.94 | ug/L | | 98 |
| 6) chlorodifluoromethane | 1.294 | 51 | 830096 | 198.64 | ug/L | | 99 |
| 7) dichlorodifluoromethane | 1.278 | 85 | 1041474 | 209.59 | ug/L | | 98 |
| 8) chloromethane | 1.393 | 52 | 321562 | 167.45 | ug/L | | 98 |
| 9) vinyl chloride | 1.446 | 62 | 1073983 | 172.99 | ug/L | | 99 |
| 11) chloroethane | 1.676 | 64 | 458516 | 118.49 | ug/L | | 99 |
| 12) trichlorofluoromethane | 1.813 | 101 | 2254605 | 255.54 | ug/L | | 100 |
| 13) 1,3-butadiene | 1.467 | 54 | 892275 | 154.84 | ug/L | | 99 |
| 14) ethyl ether | 1.949 | 74 | 576479 | 279.79 | ug/L | | 99 |
| 15) acrolein | 2.022 | 56 | 198386 | 209.45 | ug/L | | 99 |
| 16) freon 113 | 2.080 | 151 | 824498 | 233.13 | ug/L | | 95 |
| 17) 1,1-dichloroethene | 2.085 | 61 | 1171333 | 216.90 | ug/L | | 96 |
| 18) acetone | 2.096 | 58 | 426922 | 734.45 | ug/L | | 96 |
| 19) acetonitrile | 2.243 | 41 | 1316538 | 1753.84 | ug/L | | 98 |
| 21) carbon disulfide | 2.222 | 76 | 1942537 | 194.69 | ug/L | | 99 |
| 22) methylene chloride | 2.337 | 84 | 759485 | 185.79 | ug/L | | 97 |
| 23) methyl acetate | 2.248 | 74 | 213891 | 207.44 | ug/L | | 91 |
| 24) methyl tert butyl ether | 2.468 | 73 | 2527512 | 233.20 | ug/L | | 99 |
| 25) trans-1,2-dichloroethene | 2.479 | 96 | 868274 | 229.13 | ug/L | | 97 |
| 26) hexane | 2.620 | 56 | 449687 | 212.32 | ug/L | | 98 |
| 27) di-isopropyl ether | 2.709 | 45 | 2321382 | 214.71 | ug/L | | 95 |
| 28) ethyl tert-butyl ether | 2.903 | 59 | 2389523 | 223.26 | ug/L | | 99 |
| 29) 1,1-dichloroethane | 2.709 | 63 | 1447241 | 222.53 | ug/L | | 98 |
| 30) chloroprene | 2.751 | 53 | 1041449 | 213.17 | ug/L | | 99 |
| 31) acrylonitrile | 2.447 | 53 | 419346 | 208.13 | ug/L | | 98 |
| 32) vinyl acetate | 2.688 | 86 | 208454 | 238.69 | ug/L | | 98 |
| 33) ethyl acetate | 3.008 | 45 | 207062 | 216.80 | ug/L | # | 54 |
| 34) 2-butanone | 2.998 | 72 | 704439 | 914.54 | ug/L | | 94 |
| 35) 2,2-dichloropropane | 3.029 | 77 | 1325632 | 232.13 | ug/L | | 99 |
| 36) cis-1,2-dichloroethene | 3.019 | 96 | 1061017 | 243.99 | ug/L | | 99 |
| 37) propionitrile | 3.034 | 54 | 1713261 | 1888.42 | ug/L | | 71 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92156.D
Acq On : 11 Sep 2022 8:00 pm
Operator : PrashanS
Sample : IC3747-200
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 11:35:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:18:33 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 38) methyl acrylate | 3.045 | 85 | 230170 | 225.72 | ug/L | | 94 |
| 39) bromochloromethane | 3.155 | 128 | 446606 | 191.36 | ug/L | | 97 |
| 40) tetrahydrofuran | 3.165 | 71 | 179009 | 186.82 | ug/L | | 97 |
| 41) chloroform | 3.197 | 83 | 1555955 | 194.93 | ug/L | | 99 |
| 43) methacrylonitrile | 3.123 | 67 | 454623 | 206.75 | ug/L | | 97 |
| 44) 1,1,1-trichloroethane | 3.312 | 97 | 1434019 | 213.92 | ug/L | | 99 |
| 45) cyclohexane | 3.365 | 84 | 1206422 | 232.60 | ug/L | # | 84 |
| 46) 1,1-dichloropropene | 3.401 | 75 | 1170142 | 224.53 | ug/L | | 98 |
| 47) carbon tetrachloride | 3.407 | 119 | 1496313 | 245.30 | ug/L | | 99 |
| 48) isobutyl alcohol | 3.407 | 42 | 270428 | 1359.71 | ug/L | # | 87 |
| 49) tert-amyl alcohol | 3.485 | 55 | 341056 | 858.39 | ug/L | # | 69 |
| 52) n-butyl alcohol | 3.800 | 56 | 2129707 | 9738.22 | ug/L | | 98 |
| 53) benzene | 3.522 | 78 | 3104405 | 213.27 | ug/L | | 100 |
| 54) tert-amyl methyl ether | 3.574 | 73 | 2580240 | 227.93 | ug/L | | 98 |
| 55) iso-octane | 3.574 | 57 | 1651467 | 212.42 | ug/L | | 98 |
| 56) heptane | 3.669 | 57 | 305863 | 204.50 | ug/L | | 97 |
| 57) isopropyl acetate | 3.501 | 87 | 261585 | 223.34 | ug/L | | 98 |
| 58) 1,2-dichloroethane | 3.538 | 62 | 1246087 | 204.74 | ug/L | | 100 |
| 59) trichloroethene | 3.905 | 95 | 955647 | 222.82 | ug/L | | 98 |
| 60) ethyl acrylate | 3.920 | 55 | 1388639 | 204.11 | ug/L | | 100 |
| 61) 2-nitropropane | 4.356 | 41 | 408512 | 229.98 | ug/L | | 97 |
| 62) 2-chloroethyl vinyl ether | 4.387 | 63 | 2815026 | 1258.57 | ug/L | | 97 |
| 63) methyl methacrylate | 4.072 | 100 | 358748 | 248.41 | ug/L | # | 76 |
| 64) 1,2-dichloropropane | 4.067 | 63 | 854609 | 226.12 | ug/L | | 92 |
| 65) methylcyclohexane | 4.062 | 83 | 1253112 | 236.10 | ug/L | | 97 |
| 66) dibromomethane | 4.125 | 93 | 697116 | 208.73 | ug/L | | 98 |
| 67) bromodichloromethane | 4.225 | 83 | 1249418 | 213.26 | ug/L | | 100 |
| 68) epichlorohydrin | 4.429 | 57 | 607273 | 951.13 | ug/L | | 92 |
| 69) cis-1,3-dichloropropene | 4.508 | 75 | 1333784 | 219.23 | ug/L | | 96 |
| 70) 4-methyl-2-pentanone | 4.592 | 58 | 2032529 | 893.98 | ug/L | | 86 |
| 71) 3-methyl-1-butanol | 4.613 | 70 | 950509 | 4415.69 | ug/L | | 99 |
| 74) toluene | 4.744 | 92 | 2026357 | 205.05 | ug/L | | 96 |
| 75) ethyl methacrylate | 4.906 | 69 | 1185865 | 206.73 | ug/L | | 97 |
| 76) trans-1,3-dichloropropene | 4.880 | 75 | 1316972 | 225.69 | ug/L | | 98 |
| 77) 1,1,2-trichloroethane | 5.021 | 83 | 699331 | 204.02 | ug/L | | 99 |
| 78) 2-hexanone | 5.163 | 58 | 2007181 | 797.81 | ug/L | | 95 |
| 79) tetrachloroethene | 5.105 | 164 | 822957 | 215.87 | ug/L | | 100 |
| 80) 1,3-dichloropropane | 5.142 | 76 | 1297100 | 205.43 | ug/L | | 99 |
| 81) butyl acetate | 5.236 | 56 | 622911 | 194.58 | ug/L | | 96 |
| 82) dibromochloromethane | 5.305 | 129 | 1168780 | 218.41 | ug/L | | 100 |
| 83) 1,2-dibromoethane | 5.399 | 107 | 975723 | 202.55 | ug/L | | 100 |
| 84) n-butyl ether | 5.808 | 57 | 3004710 | 213.89 | ug/L | | 92 |
| 85) chlorobenzene | 5.755 | 112 | 2454821 | 206.35 | ug/L | | 99 |
| 86) 1,1,1,2-tetrachloroethane | 5.813 | 131 | 1198402 | 265.08 | ug/L | | 100 |
| 87) ethylbenzene | 5.818 | 91 | 4012330 | 215.81 | ug/L | | 98 |
| 88) m,p-xylene | 5.918 | 106 | 3188711 | 443.62 | ug/L | | 93 |
| 89) o-xylene | 6.217 | 91 | 3110128 | 218.49 | ug/L | | 97 |
| 90) styrene | 6.227 | 104 | 2665224 | 226.53 | ug/L | | 99 |
| 91) butyl acrylate | 6.154 | 56 | 763353 | 217.51 | ug/L | | 94 |
| 92) n-amyl acetate | 6.327 | 70 | 635951 | 201.44 | ug/L | | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92156.D
Acq On : 11 Sep 2022 8:00 pm
Operator : PrashanS
Sample : IC3747-200
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 11:35:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:18:33 2022
Response via : Initial Calibration

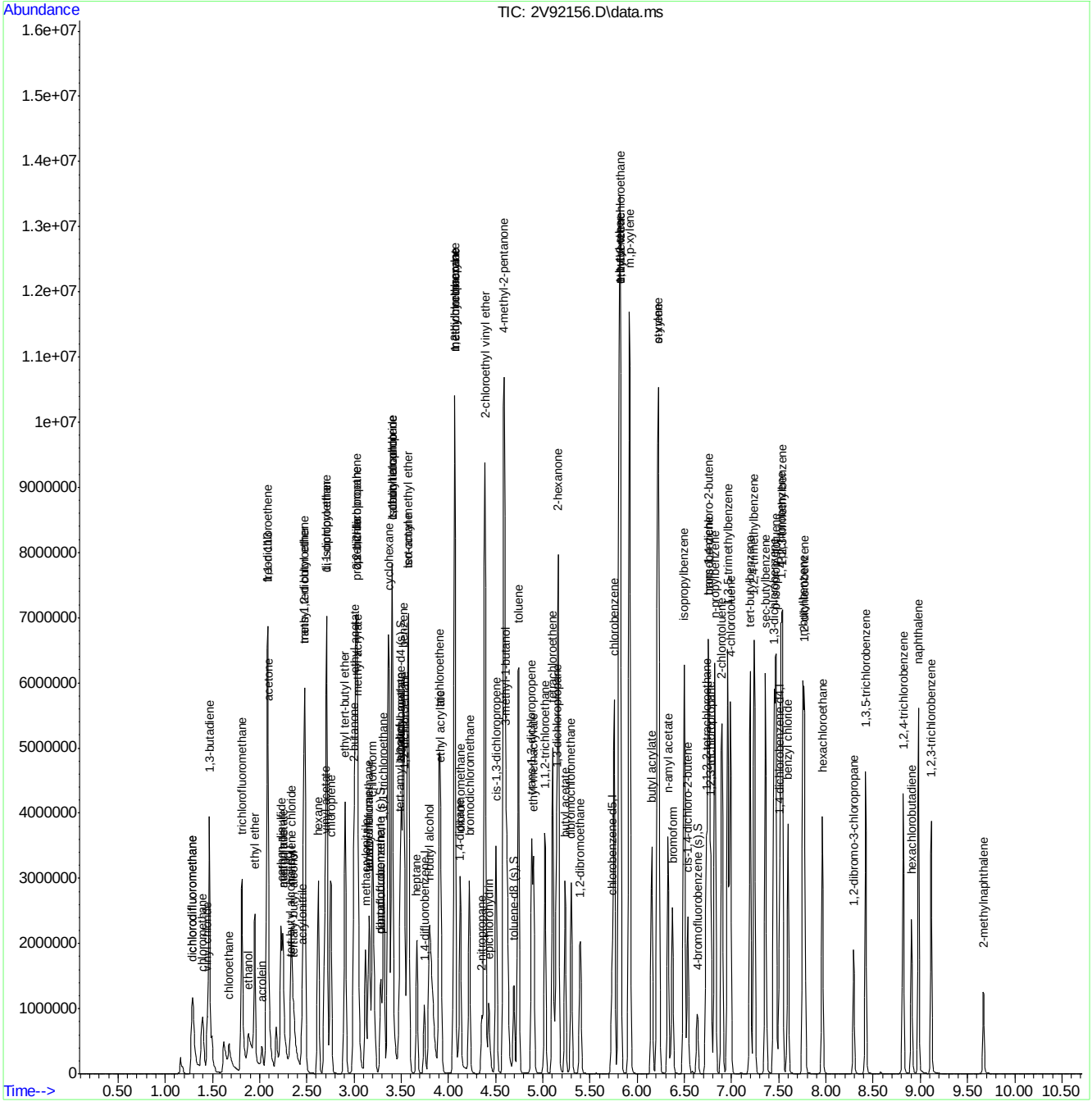
| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 93) bromoform | 6.374 | 173 | 899772 | 228.68 ug/L | 100 |
| 94) isopropylbenzene | 6.500 | 105 | 3460411 | 203.32 ug/L | 98 |
| 95) cis-1,4-dichloro-2-butene | 6.537 | 88 | 490927 | 254.72 ug/L | 99 |
| 98) bromobenzene | 6.757 | 156 | 1139324 | 239.65 ug/L | 92 |
| 99) 1,1,2,2-tetrachloroethane | 6.731 | 83 | 1248057 | 210.84 ug/L | 100 |
| 100) trans-1,4-dichloro-2-b... | 6.762 | 53 | 359616 | 266.88 ug/L | 90 |
| 101) 1,2,3-trichloropropane | 6.778 | 110 | 370540 | 210.65 ug/L | 100 |
| 102) n-propylbenzene | 6.825 | 91 | 3675015 | 211.24 ug/L | 96 |
| 103) 2-chlorotoluene | 6.898 | 126 | 891380 | 225.07 ug/L | 100 |
| 104) 4-chlorotoluene | 6.988 | 126 | 915831 | 224.61 ug/L | 99 |
| 105) 1,3,5-trimethylbenzene | 6.961 | 105 | 2635575 | 228.20 ug/L | 97 |
| 106) tert-butylbenzene | 7.197 | 119 | 2283535 | 226.58 ug/L | 98 |
| 107) 1,2,4-trimethylbenzene | 7.239 | 105 | 2643886 | 218.23 ug/L | 99 |
| 108) sec-butylbenzene | 7.360 | 105 | 3017465 | 220.31 ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 1808726 | 229.66 ug/L | 100 |
| 110) p-isopropyltoluene | 7.470 | 119 | 2630500 | 227.21 ug/L | 98 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 2682125 | 221.79 ug/L | 99 |
| 112) 1,4-dichlorobenzene | 7.522 | 146 | 1853501 | 225.09 ug/L | 99 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 1682710 | 226.28 ug/L | 98 |
| 114) benzyl chloride | 7.596 | 91 | 1858043 | 244.85 ug/L | 98 |
| 115) n-butylbenzene | 7.753 | 92 | 1181142 | 241.55 ug/L | 99 |
| 116) hexachloroethane | 7.963 | 201 | 453898 | 258.46 ug/L | 99 |
| 117) 1,2-dibromo-3-chloropr... | 8.293 | 157 | 368782 | 235.84 ug/L | 96 |
| 118) 1,3,5-trichlorobenzene | 8.419 | 180 | 987222 | 237.87 ug/L | 99 |
| 119) 1,2,4-trichlorobenzene | 8.817 | 180 | 903552 | 249.77 ug/L | 99 |
| 120) hexachlorobutadiene | 8.907 | 225 | 289989 | 224.50 ug/L | 99 |
| 121) naphthalene | 8.980 | 128 | 2945588 | 241.26 ug/L | 100 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 813574 | 250.79 ug/L | 99 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 473539 | 113.47 ug/L | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92156.D
Acq On : 11 Sep 2022 8:00 pm
Operator : PrashanS
Sample : IC3747-200
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 12 11:35:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:18:33 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/12/22 13:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92162.D
Acq On : 11 Sep 2022 9:28 pm
Operator : PrashanS
Sample : ICV3747-50
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 12 11:40:28 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.311 | 65 | 302730 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.281 | 168 | 444168 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 596162 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 5.735 | 117 | 554766 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.501 | 152 | 237374 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 42) dibromofluoromethane (s) | 3.286 | 113 | 221331 | 49.97 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.94% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.491 | 65 | 210359 | 49.76 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 99.52% | | | | |
| 73) toluene-d8 (s) | 4.691 | 98 | 673651 | 49.33 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.66% | | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 217219 | 51.25 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.50% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.876 | 45 | 296504 | 4821.96 | ug/L | | 99 |
| 3) tertiary butyl alcohol | 2.358 | 59 | 225645 | 239.28 | ug/L | | 99 |
| 4) 1,4-dioxane | 4.099 | 88 | 101046 | 1308.37 | ug/L | | 95 |
| 7) dichlorodifluoromethane | 1.273 | 85 | 251416 | 50.66 | ug/L | | 100 |
| 8) chloromethane | 1.388 | 52 | 79541 | 42.46 | ug/L | | 97 |
| 9) vinyl chloride | 1.446 | 62 | 292886 | 48.14 | ug/L | | 99 |
| 10) bromomethane | 1.624 | 96 | 200018 | 47.26 | ug/L | | 99 |
| 11) chloroethane | 1.682 | 64 | 198327 | 54.36 | ug/L | | 100 |
| 12) trichlorofluoromethane | 1.813 | 101 | 447001 | 49.62 | ug/L | | 99 |
| 13) 1,3-butadiene | 1.467 | 54 | 304653 | 54.58 | ug/L | | 98 |
| 14) ethyl ether | 1.949 | 74 | 111927 | 52.58 | ug/L | | 97 |
| 15) acrolein | 2.023 | 56 | 42802 | 45.25 | ug/L | | 98 |
| 16) freon 113 | 2.085 | 151 | 177000 | 49.55 | ug/L | | 95 |
| 17) 1,1-dichloroethene | 2.085 | 61 | 286691 | 52.99 | ug/L | | 97 |
| 18) acetone | 2.091 | 58 | 104470 | 182.39 | ug/L | | 100 |
| 19) acetonitrile | 2.237 | 41 | 276507 | 375.90 | ug/L | | 98 |
| 20) iodomethane | 2.180 | 142 | 149794 | 44.80 | ug/L | | 98 |
| 21) carbon disulfide | 2.227 | 76 | 493918 | 49.97 | ug/L | | 99 |
| 22) methylene chloride | 2.337 | 84 | 191882 | 47.62 | ug/L | | 97 |
| 23) methyl acetate | 2.248 | 74 | 59257 | 57.58 | ug/L | | 97 |
| 24) methyl tert butyl ether | 2.468 | 73 | 577926 | 52.79 | ug/L | | 100 |
| 25) trans-1,2-dichloroethene | 2.484 | 96 | 195837 | 51.27 | ug/L | | 99 |
| 26) hexane | 2.625 | 56 | 102827 | 48.57 | ug/L | | 97 |
| 27) di-isopropyl ether | 2.709 | 45 | 552584 | 51.07 | ug/L | | 96 |
| 28) ethyl tert-butyl ether | 2.903 | 59 | 534357 | 49.68 | ug/L | | 98 |
| 29) 1,1-dichloroethane | 2.715 | 63 | 339379 | 51.94 | ug/L | | 100 |
| 30) chloroprene | 2.757 | 53 | 266968 | 54.64 | ug/L | | 99 |
| 31) acrylonitrile | 2.447 | 53 | 104251 | 51.85 | ug/L | | 99 |
| 32) vinyl acetate | 2.688 | 86 | 39043 | 43.94 | ug/L | # | 87 |
| 33) ethyl acetate | 3.008 | 45 | 49369 | 51.49 | ug/L | # | 70 |
| 34) 2-butanone | 2.998 | 72 | 167439 | 215.71 | ug/L | | 100 |
| 35) 2,2-dichloropropane | 3.029 | 77 | 281112 | 48.76 | ug/L | | 98 |
| 36) cis-1,2-dichloroethene | 3.019 | 96 | 229629 | 52.01 | ug/L | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92162.D
Acq On : 11 Sep 2022 9:28 pm
Operator : PrashanS
Sample : ICV3747-50
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 12 11:40:28 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 37) propionitrile | 3.029 | 54 | 419687 | 468.23 | ug/L | | 83 |
| 38) methyl acrylate | 3.040 | 85 | 51898 | 50.42 | ug/L | | 94 |
| 39) bromochloromethane | 3.155 | 128 | 116343 | 50.39 | ug/L | | 96 |
| 40) tetrahydrofuran | 3.166 | 71 | 44622 | 47.32 | ug/L | | 97 |
| 41) chloroform | 3.197 | 83 | 376148 | 47.58 | ug/L | | 98 |
| 43) methacrylonitrile | 3.118 | 67 | 112359 | 51.24 | ug/L | | 99 |
| 44) 1,1,1-trichloroethane | 3.318 | 97 | 334812 | 49.92 | ug/L | | 97 |
| 45) cyclohexane | 3.365 | 84 | 251204 | 47.97 | ug/L | | 95 |
| 46) 1,1-dichloropropene | 3.401 | 75 | 269631 | 51.45 | ug/L | | 99 |
| 47) carbon tetrachloride | 3.407 | 119 | 323704 | 52.23 | ug/L | | 98 |
| 48) isobutyl alcohol | 3.401 | 42 | 99523 | 524.67 | ug/L | | 98 |
| 49) tert-amyl alcohol | 3.475 | 55 | 87100 | 224.18 | ug/L | | 95 |
| 52) n-butyl alcohol | 3.795 | 56 | 551057 | 2588.66 | ug/L | | 100 |
| 53) benzene | 3.522 | 78 | 715300 | 50.01 | ug/L | | 99 |
| 54) tert-amyl methyl ether | 3.574 | 73 | 534208 | 47.67 | ug/L | | 99 |
| 55) iso-octane | 3.574 | 57 | 362162 | 47.42 | ug/L | | 98 |
| 56) heptane | 3.669 | 57 | 75052 | 50.77 | ug/L | | 97 |
| 57) isopropyl acetate | 3.496 | 87 | 58571 | 50.49 | ug/L | # | 91 |
| 58) 1,2-dichloroethane | 3.538 | 62 | 289263 | 48.56 | ug/L | | 99 |
| 59) trichloroethene | 3.905 | 95 | 215298 | 50.84 | ug/L | | 98 |
| 60) ethyl acrylate | 3.920 | 55 | 319035 | 47.93 | ug/L | | 99 |
| 61) 2-nitropropane | 4.350 | 41 | 90257 | 51.09 | ug/L | | 98 |
| 62) 2-chloroethyl vinyl ether | 4.387 | 63 | 667635 | 298.06 | ug/L | | 99 |
| 63) methyl methacrylate | 4.067 | 100 | 81158 | 55.88 | ug/L | # | 85 |
| 64) 1,2-dichloropropane | 4.067 | 63 | 190578 | 50.91 | ug/L | | 98 |
| 65) methylcyclohexane | 4.062 | 83 | 273459 | 51.84 | ug/L | | 98 |
| 66) dibromomethane | 4.125 | 93 | 159744 | 48.78 | ug/L | | 97 |
| 67) bromodichloromethane | 4.219 | 83 | 285999 | 49.68 | ug/L | | 99 |
| 68) epichlorohydrin | 4.424 | 57 | 151768 | 244.99 | ug/L | | 94 |
| 69) cis-1,3-dichloropropene | 4.502 | 75 | 306517 | 51.12 | ug/L | | 99 |
| 70) 4-methyl-2-pentanone | 4.586 | 58 | 465222 | 207.17 | ug/L | | 99 |
| 71) 3-methyl-1-butanol | 4.607 | 70 | 238116 | 1120.20 | ug/L | | 97 |
| 74) toluene | 4.738 | 92 | 456720 | 49.08 | ug/L | | 100 |
| 75) ethyl methacrylate | 4.901 | 69 | 264463 | 48.90 | ug/L | | 99 |
| 76) trans-1,3-dichloropropene | 4.880 | 75 | 293683 | 52.91 | ug/L | | 98 |
| 77) 1,1,2-trichloroethane | 5.022 | 83 | 164745 | 51.07 | ug/L | | 99 |
| 78) 2-hexanone | 5.158 | 58 | 481367 | 203.77 | ug/L | | 97 |
| 79) tetrachloroethene | 5.105 | 164 | 187106 | 51.84 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 5.142 | 76 | 301936 | 50.78 | ug/L | | 99 |
| 81) butyl acetate | 5.237 | 56 | 158907 | 53.00 | ug/L | | 100 |
| 82) dibromochloromethane | 5.299 | 129 | 266030 | 52.45 | ug/L | | 100 |
| 83) 1,2-dibromoethane | 5.394 | 107 | 228218 | 50.38 | ug/L | | 99 |
| 84) n-butyl ether | 5.803 | 57 | 671349 | 50.53 | ug/L | | 99 |
| 85) chlorobenzene | 5.756 | 112 | 558816 | 49.86 | ug/L | | 99 |
| 86) 1,1,1,2-tetrachloroethane | 5.813 | 131 | 238769 | 54.46 | ug/L | | 97 |
| 87) ethylbenzene | 5.818 | 91 | 896266 | 50.93 | ug/L | | 99 |
| 88) m,p-xylene | 5.918 | 106 | 690916 | 101.24 | ug/L | | 99 |
| 89) o-xylene | 6.212 | 91 | 693356 | 51.39 | ug/L | | 100 |
| 90) styrene | 6.227 | 104 | 583552 | 52.12 | ug/L | | 99 |
| 91) butyl acrylate | 6.154 | 56 | 180914 | 54.41 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92162.D
Acq On : 11 Sep 2022 9:28 pm
Operator : PrashanS
Sample : ICV3747-50
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 12 11:40:28 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

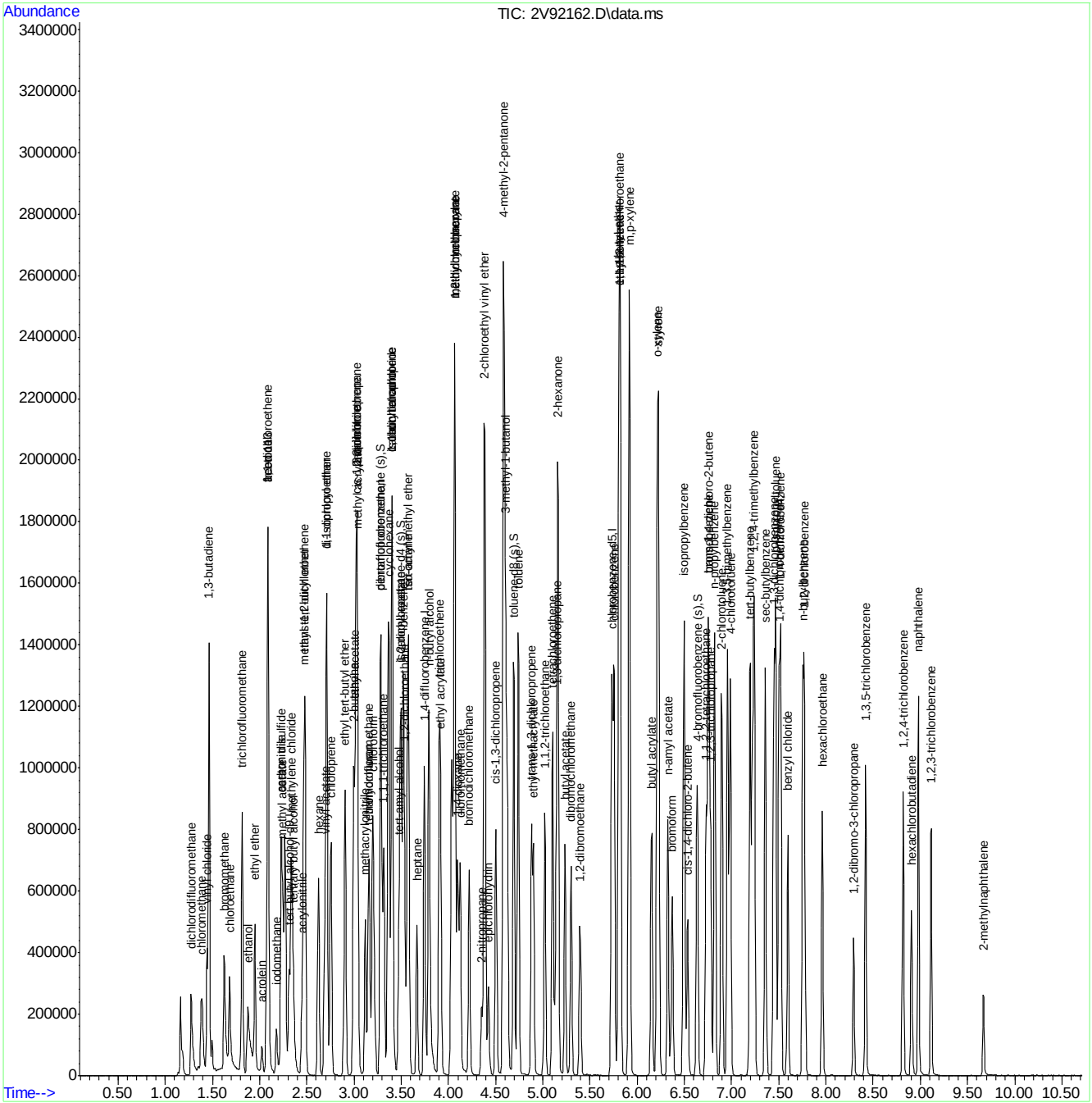
| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 92) n-amyl acetate | 6.327 | 70 | 152282 | 51.31 ug/L | 98 |
| 93) bromoform | 6.369 | 173 | 205785 | 54.81 ug/L | 99 |
| 94) isopropylbenzene | 6.495 | 105 | 811383 | 50.68 ug/L | 100 |
| 95) cis-1,4-dichloro-2-butene | 6.537 | 88 | 101109 | 54.01 ug/L | 98 |
| 98) bromobenzene | 6.752 | 156 | 252773 | 52.65 ug/L | 99 |
| 99) 1,1,2,2-tetrachloroethane | 6.731 | 83 | 301149 | 51.10 ug/L | 99 |
| 100) trans-1,4-dichloro-2-b... | 6.757 | 53 | 81829 | 58.87 ug/L | 97 |
| 101) 1,2,3-trichloropropane | 6.778 | 110 | 92316 | 52.69 ug/L | 99 |
| 102) n-propylbenzene | 6.820 | 91 | 890292 | 51.39 ug/L | 99 |
| 103) 2-chlorotoluene | 6.893 | 126 | 208962 | 52.62 ug/L | 95 |
| 104) 4-chlorotoluene | 6.988 | 126 | 213828 | 52.32 ug/L | 98 |
| 105) 1,3,5-trimethylbenzene | 6.956 | 105 | 605425 | 52.20 ug/L | 99 |
| 106) tert-butylbenzene | 7.197 | 119 | 600133m | 59.35 ug/L | |
| 107) 1,2,4-trimethylbenzene | 7.239 | 105 | 619145 | 51.14 ug/L | 99 |
| 108) sec-butylbenzene | 7.360 | 105 | 711079 | 51.90 ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 403918 | 51.04 ug/L | 99 |
| 110) p-isopropyltoluene | 7.465 | 119 | 609812 | 52.48 ug/L | 98 |
| 112) 1,4-dichlorobenzene | 7.522 | 146 | 402535 | 48.76 ug/L | 98 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 387187 | 51.90 ug/L | 100 |
| 114) benzyl chloride | 7.596 | 91 | 384524 | 50.05 ug/L | 99 |
| 115) n-butylbenzene | 7.753 | 92 | 262912 | 53.19 ug/L | 99 |
| 116) hexachloroethane | 7.963 | 201 | 100985 | 56.03 ug/L | 98 |
| 117) 1,2-dibromo-3-chloropr... | 8.293 | 157 | 88205 | 55.85 ug/L | 98 |
| 118) 1,3,5-trichlorobenzene | 8.419 | 180 | 221170 | 52.82 ug/L | 99 |
| 119) 1,2,4-trichlorobenzene | 8.817 | 180 | 196483 | 53.52 ug/L | 99 |
| 120) hexachlorobutadiene | 8.907 | 225 | 67022 | 51.70 ug/L | 100 |
| 121) naphthalene | 8.980 | 128 | 659407 | 53.44 ug/L | 99 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 180773 | 54.88 ug/L | 99 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 100325 | 23.92 ug/L | 93 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92162.D
Acq On : 11 Sep 2022 9:28 pm
Operator : PrashanS
Sample : ICV3747-50
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 12 11:40:28 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration



# Manual Integration Approval Summary



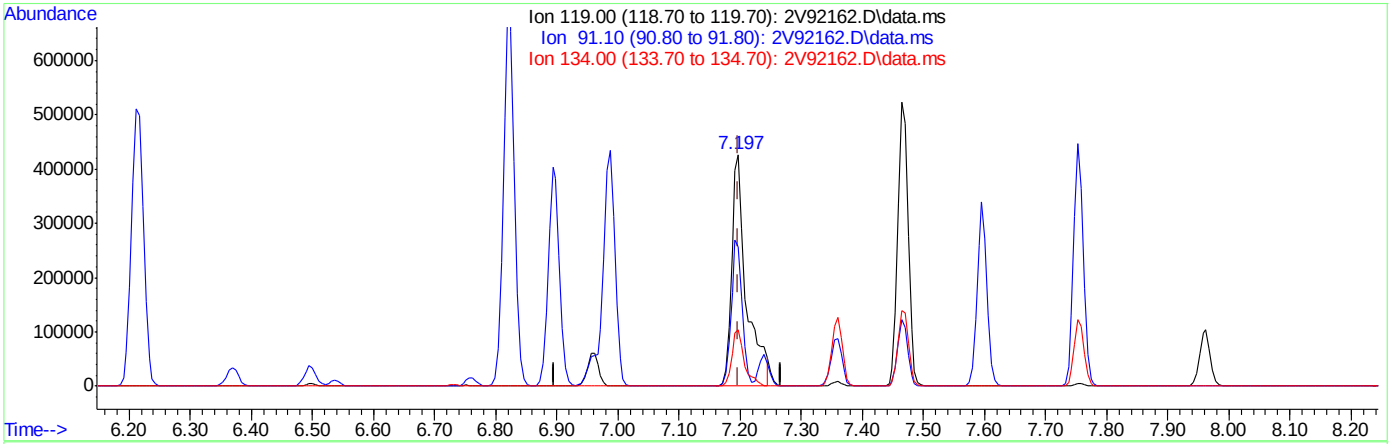
| | | | |
|---|---|---|---|
| **Sample Number:** | V2V3747-ICV3747 | **Method:** | SW846 8260D |
| **Lab FileID:** | 2V92162.D | **Analyst approved:** | 09/12/22 11:55 MoHui Huang |
| **Injection Time:** | 09/11/22 21:28 | **Supervisor approved:** | 09/12/22 13:48 Kanya Veerawat |

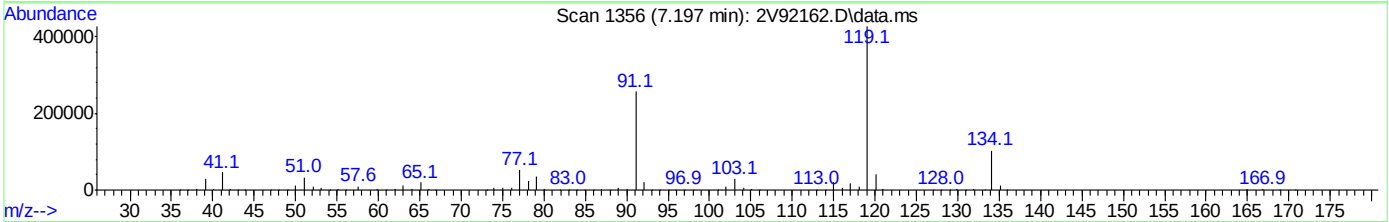
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| tert-Butylbenzene | 98-06-6 | | 7.20 | Overlapping peak |

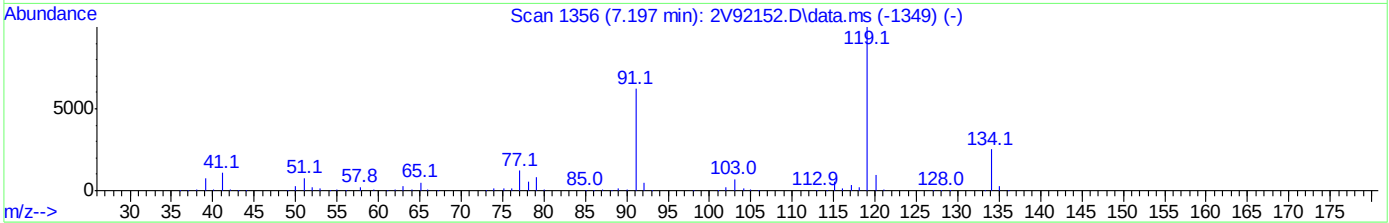
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92162.D
Acq On : 11 Sep 2022 9:28 pm
Operator : PrashanS
Sample : ICV3747-50
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 12 11:30:20 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration




TIC: 2V92162.D\data.ms

(106) tert-butylbenzene

7.197min (0.000) 71.13ug/L

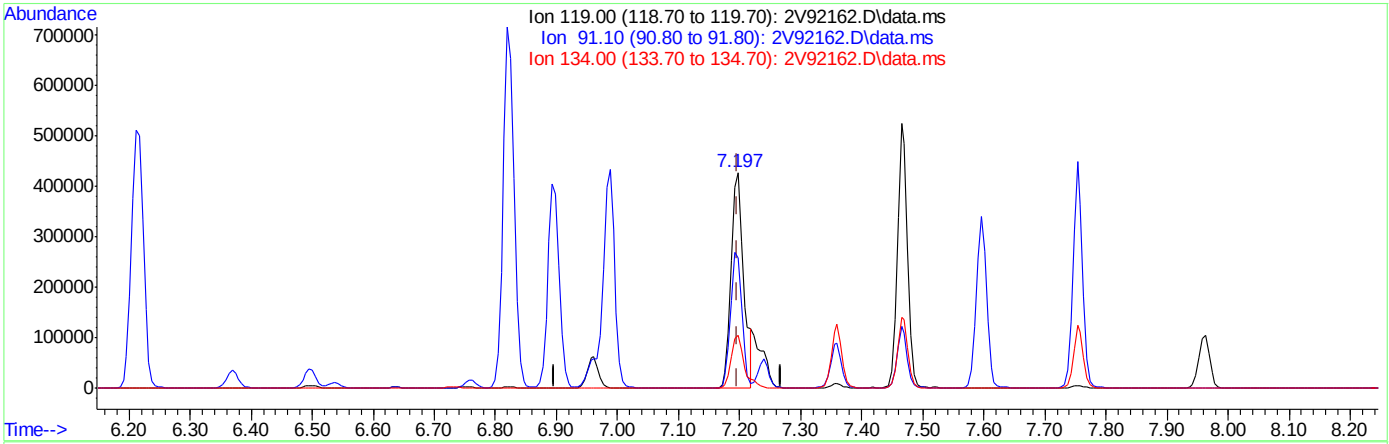
response 719316

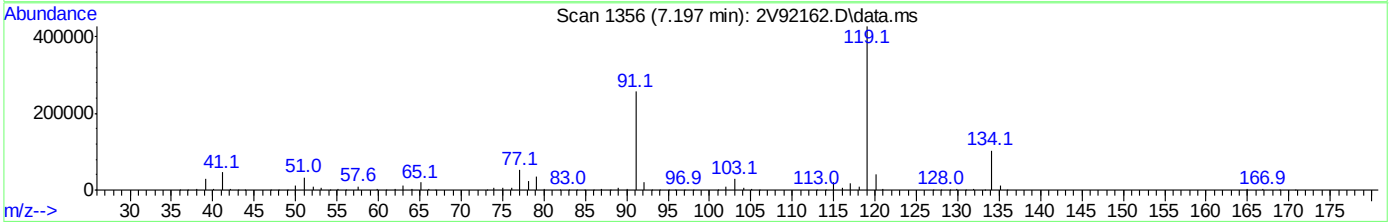
| Ion | Exp% | Act% |
|---|---|---|
| 119.00 | 100 | 100 |
| 91.10 | 62.10 | 60.08 |
| 134.00 | 25.10 | 24.33 |
| 0.00 | 0.00 | 0.00 |

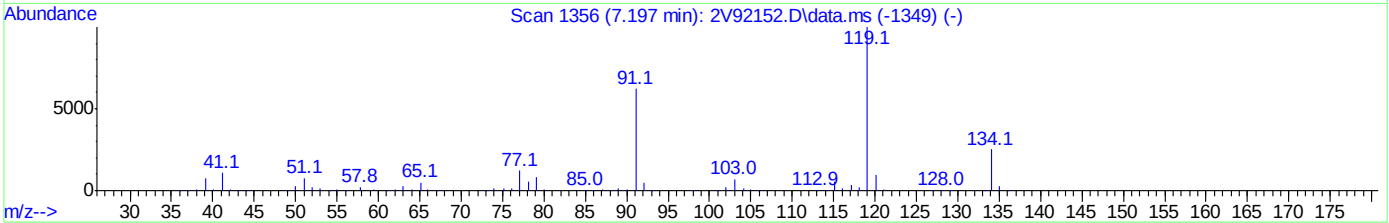
# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92162.D
Acq On : 11 Sep 2022 9:28 pm
Operator : PrashanS
Sample : ICV3747-50
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 12 11:30:49 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration




TIC: 2V92162.D\data.ms

(106) tert-butylbenzene

7.197min (0.000) 59.35ug/L m

response 600133

| Ion | Exp% | Act% |
|---|---|---|
| 119.00 | 100 | 100 |
| 91.10 | 62.10 | 60.08 |
| 134.00 | 25.10 | 24.33 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92164.D
Acq On : 11 Sep 2022 9:57 pm
Operator : PrashanS
Sample : ICV3747-50
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 12 11:45:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

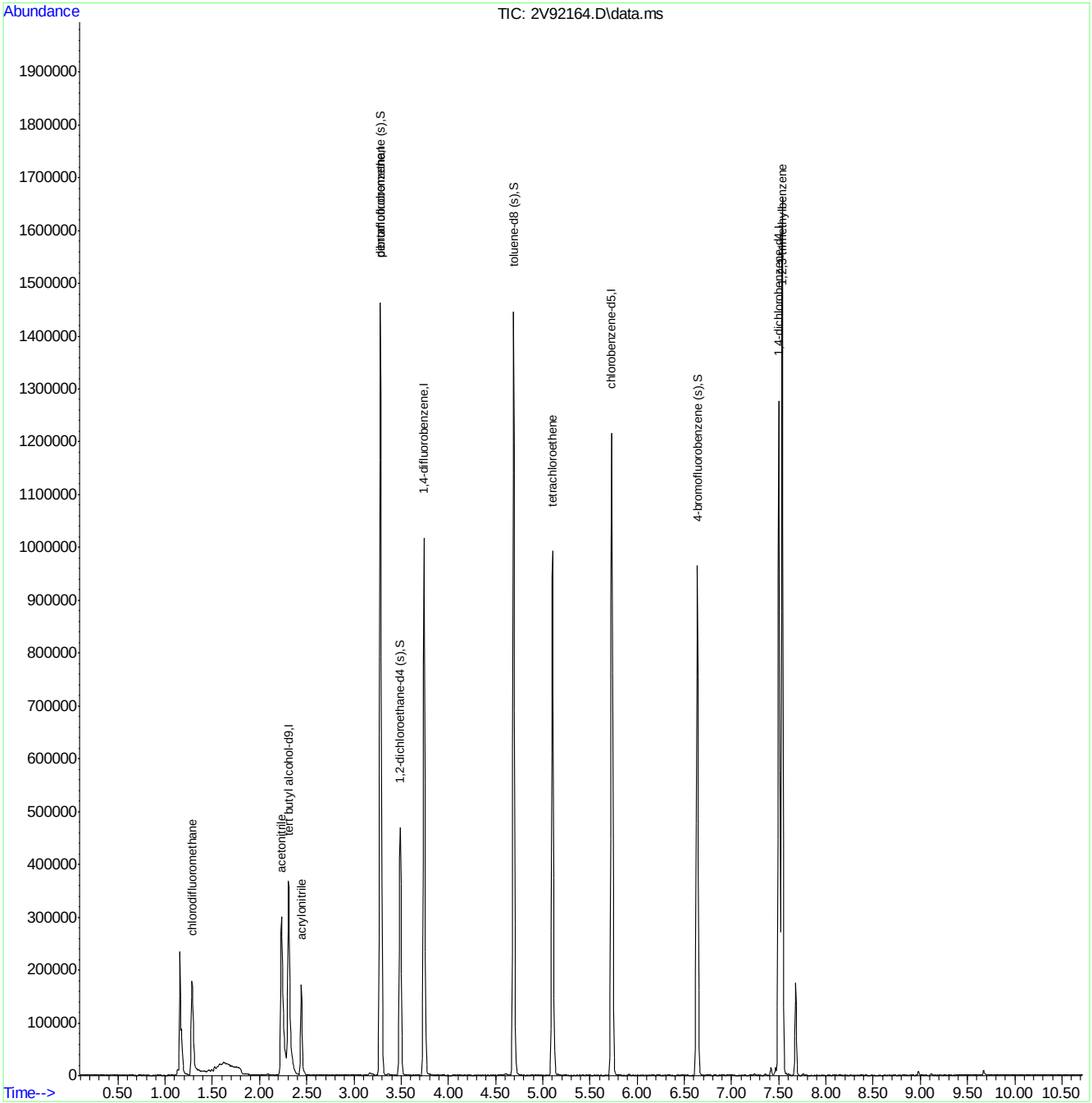
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) tert butyl alcohol-d9 | 2.306 | 65 | 319445 | 500.00 | ug/L | -0.01 |
| 5) pentafluorobenzene | 3.281 | 168 | 447038 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.742 | 114 | 598733 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.729 | 117 | 552014 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.502 | 152 | 251042 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 42) dibromofluoromethane (s) | 3.286 | 113 | 223482 | 50.13 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.26% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.491 | 65 | 214302 | 50.48 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.96% | | | |
| 73) toluene-d8 (s) | 4.691 | 98 | 693473 | 51.04 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 102.08% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 221082 | 49.32 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.64% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 6) chlorodifluoromethane | 1.283 | 51 | 212336 | 50.85 | ug/L | 92 |
| 19) acetonitrile | 2.232 | 41 | 326952 | 441.63 | ug/L | 99 |
| 31) acrylonitrile | 2.442 | 53 | 84619 | 41.81 | ug/L | 98 |
| 79) tetrachloroethene | 5.105 | 164 | 168476 | 46.92 | ug/L | 98 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 695205 | 54.30 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V2V3747\
Data File : 2V92164.D
Acq On : 11 Sep 2022 9:57 pm
Operator : PrashanS
Sample : ICV3747-50
Misc : MS61977,V2V3747,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 12 11:45:14 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92880.d
Acq On : 27 Sep 2022 9:00 pm
Operator : KYLEM
Sample : cc3747-50
Misc : MS62460,V2V3773,5,,,,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 27 21:11:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 266188 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 303124 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 422646 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 404640 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 187488 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 153214 | 50.69 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.38% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 154868 | 51.68 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 103.36% | | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 493173 | 49.52 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.04% | | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 156460 | 46.74 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.48% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.886 | 45 | 494597 | 9147.69 | ug/L | | 99 |
| 3) tertiary butyl alcohol | 2.363 | 59 | 171744 | 207.12 | ug/L | | 98 |
| 4) 1,4-dioxane | 4.104 | 88 | 79793 | 1175.01 | ug/L | | 94 |
| 6) chlorodifluoromethane | 1.293 | 51 | 122296 | 43.19 | ug/L | | 99 |
| 7) dichlorodifluoromethane | 1.283 | 85 | 161039 | 47.55 | ug/L | | 97 |
| 8) chloromethane | 1.393 | 52 | 63958 | 50.03 | ug/L | | 99 |
| 9) vinyl chloride | 1.456 | 62 | 228243 | 54.97 | ug/L | | 96 |
| 10) bromomethane | 1.634 | 96 | 170918 | 59.18 | ug/L | | 95 |
| 11) chloroethane | 1.692 | 64 | 169113 | 67.91 | ug/L | | 95 |
| 12) trichlorofluoromethane | 1.823 | 101 | 533529 | 86.78 | ug/L | | 99 |
| 13) 1,3-butadiene | 1.477 | 54 | 187968 | 49.35 | ug/L | | 99 |
| 14) ethyl ether | 1.959 | 74 | 127850 | 88.01 | ug/L | | 96 |
| 15) acrolein | 2.033 | 56 | 53129 | 82.30 | ug/L | | 97 |
| 16) freon 113 | 2.090 | 151 | 113443 | 46.54 | ug/L | | 97 |
| 17) 1,1-dichloroethene | 2.096 | 61 | 183942 | 49.82 | ug/L | | 98 |
| 18) acetone | 2.101 | 58 | 82885 | 212.04 | ug/L | | 94 |
| 19) acetonitrile | 2.242 | 41 | 288577 | 574.85 | ug/L | | 97 |
| 20) iodomethane | 2.185 | 142 | 105076 | 45.85 | ug/L | | 96 |
| 21) carbon disulfide | 2.232 | 76 | 296458 | 43.95 | ug/L | | 96 |
| 22) methylene chloride | 2.342 | 84 | 128294 | 46.66 | ug/L | | 90 |
| 23) methyl acetate | 2.258 | 74 | 34901 | 49.69 | ug/L | | 92 |
| 24) methyl tert butyl ether | 2.478 | 73 | 377501 | 50.53 | ug/L | | 100 |
| 25) trans-1,2-dichloroethene | 2.489 | 96 | 128194 | 49.18 | ug/L | | 99 |
| 26) hexane | 2.630 | 56 | 66314 | 45.90 | ug/L | # | 87 |
| 27) di-isopropyl ether | 2.714 | 45 | 390726 | 52.91 | ug/L | | 97 |
| 28) ethyl tert-butyl ether | 2.908 | 59 | 363804 | 49.56 | ug/L | | 99 |
| 29) 1,1-dichloroethane | 2.719 | 63 | 228634 | 51.27 | ug/L | | 98 |
| 30) chloroprene | 2.761 | 53 | 165957 | 49.77 | ug/L | | 100 |
| 31) acrylonitrile | 2.452 | 53 | 75983 | 55.37 | ug/L | | 99 |
| 32) vinyl acetate | 2.693 | 86 | 31195 | 51.44 | ug/L | # | 78 |
| 33) ethyl acetate | 3.008 | 45 | 35649 | 54.48 | ug/L | # | 58 |
| 34) 2-butanone | 3.003 | 72 | 117206 | 221.25 | ug/L | # | 84 |
| 35) 2,2-dichloropropane | 3.034 | 77 | 197607 | 50.23 | ug/L | | 99 |
| 36) cis-1,2-dichloroethene | 3.029 | 96 | 154816 | 51.38 | ug/L | | 93 |
| 37) propionitrile | 3.034 | 54 | 362016 | 591.82 | ug/L | | 77 |
| 38) methyl acrylate | 3.045 | 85 | 35260 | 50.19 | ug/L | # | 65 |
| 39) bromochloromethane | 3.160 | 128 | 80380 | 51.02 | ug/L | | 94 |
| 40) tetrahydrofuran | 3.170 | 71 | 31851 | 49.49 | ug/L | | 96 |
| 41) chloroform | 3.202 | 83 | 248970 | 46.15 | ug/L | | 98 |
| 43) methacrylonitrile | 3.123 | 67 | 76434 | 51.07 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92880.d
Acq On : 27 Sep 2022 9:00 pm
Operator : KYLEM
Sample : cc3747-50
Misc : MS62460,V2V3773,5,,,,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 27 21:11:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 1,1,1-trichloroethane | 3.317 | 97 | 218256 | 47.69 | ug/L | | 98 |
| 45) cyclohexane | 3.370 | 84 | 168252 | 47.08 | ug/L | | 98 |
| 46) 1,1-dichloropropene | 3.406 | 75 | 183158 | 51.21 | ug/L | | 97 |
| 47) carbon tetrachloride | 3.412 | 119 | 204184 | 48.28 | ug/L | | 97 |
| 48) isobutyl alcohol | 3.406 | 42 | 82105 | 634.25 | ug/L | | 95 |
| 49) tert-amyl alcohol | 3.480 | 55 | 61230 | 230.92 | ug/L | # | 78 |
| 52) n-butyl alcohol | 3.800 | 56 | 446598 | 2959.25 | ug/L | | 98 |
| 53) benzene | 3.527 | 78 | 487586 | 48.08 | ug/L | | 100 |
| 54) tert-amyl methyl ether | 3.574 | 73 | 388266 | 48.87 | ug/L | | 99 |
| 55) iso-octane | 3.579 | 57 | 254825 | 47.07 | ug/L | | 99 |
| 56) heptane | 3.668 | 57 | 46702 | 44.56 | ug/L | | 96 |
| 57) isopropyl acetate | 3.501 | 87 | 40657 | 49.44 | ug/L | # | 75 |
| 58) 1,2-dichloroethane | 3.543 | 62 | 195136 | 46.21 | ug/L | | 99 |
| 59) trichloroethene | 3.910 | 95 | 139596 | 46.50 | ug/L | | 96 |
| 60) ethyl acrylate | 3.925 | 55 | 239747 | 50.80 | ug/L | | 98 |
| 61) 2-nitropropane | 4.355 | 41 | 67426 | 53.84 | ug/L | | 97 |
| 62) 2-chloroethyl vinyl ether | 4.387 | 63 | 496960 | 312.95 | ug/L | | 97 |
| 63) methyl methacrylate | 4.072 | 100 | 51100 | 49.62 | ug/L | # | 84 |
| 64) 1,2-dichloropropane | 4.067 | 63 | 135421 | 51.03 | ug/L | | 95 |
| 65) methylcyclohexane | 4.067 | 83 | 181615 | 48.57 | ug/L | | 99 |
| 66) dibromomethane | 4.125 | 93 | 110400 | 47.55 | ug/L | | 94 |
| 67) bromodichloromethane | 4.224 | 83 | 191163 | 46.84 | ug/L | | 100 |
| 68) epichlorohydrin | 4.429 | 57 | 112752 | 256.73 | ug/L | | 93 |
| 69) cis-1,3-dichloropropene | 4.507 | 75 | 211119 | 49.66 | ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 4.591 | 58 | 359592 | 225.88 | ug/L | | 95 |
| 71) 3-methyl-1-butanol | 4.607 | 70 | 178558 | 1184.88 | ug/L | | 93 |
| 74) toluene | 4.743 | 92 | 308325 | 45.43 | ug/L | | 97 |
| 75) ethyl methacrylate | 4.906 | 69 | 200775 | 50.90 | ug/L | | 97 |
| 76) trans-1,3-dichloropropene | 4.885 | 75 | 199759 | 49.34 | ug/L | | 98 |
| 77) 1,1,2-trichloroethane | 5.021 | 83 | 115933 | 49.27 | ug/L | | 94 |
| 78) 2-hexanone | 5.163 | 58 | 374649 | 217.44 | ug/L | | 97 |
| 79) tetrachloroethene | 5.105 | 164 | 122652 | 46.59 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 5.142 | 76 | 213497 | 49.22 | ug/L | | 99 |
| 81) butyl acetate | 5.236 | 56 | 111892 | 51.16 | ug/L | | 96 |
| 82) dibromochloromethane | 5.304 | 129 | 177716 | 48.04 | ug/L | | 97 |
| 83) 1,2-dibromoethane | 5.399 | 107 | 161155 | 48.77 | ug/L | | 96 |
| 84) n-butyl ether | 5.808 | 57 | 505538 | 52.17 | ug/L | | 99 |
| 85) chlorobenzene | 5.755 | 112 | 377118 | 46.13 | ug/L | | 99 |
| 86) 1,1,1,2-tetrachloroethane | 5.818 | 131 | 160468 | 50.18 | ug/L | | 96 |
| 87) ethylbenzene | 5.823 | 91 | 629155 | 49.01 | ug/L | | 99 |
| 88) m,p-xylene | 5.918 | 106 | 478143 | 96.06 | ug/L | | 99 |
| 89) o-xylene | 6.217 | 91 | 478617 | 48.63 | ug/L | | 97 |
| 90) styrene | 6.227 | 104 | 398927 | 48.85 | ug/L | | 98 |
| 91) butyl acrylate | 6.154 | 56 | 132570 | 54.66 | ug/L | | 99 |
| 92) n-amyl acetate | 6.327 | 70 | 109417 | 50.55 | ug/L | | 91 |
| 93) bromoform | 6.374 | 173 | 135672 | 49.55 | ug/L | | 100 |
| 94) isopropylbenzene | 6.500 | 105 | 559745 | 47.93 | ug/L | | 98 |
| 95) cis-1,4-dichloro-2-butene | 6.536 | 88 | 43675 | 31.99 | ug/L | | 89 |
| 98) bromobenzene | 6.757 | 156 | 171272 | 45.17 | ug/L | | 94 |
| 99) 1,1,2,2-tetrachloroethane | 6.730 | 83 | 218503 | 46.94 | ug/L | | 98 |
| 100) trans-1,4-dichloro-2-b... | 6.762 | 53 | 37677 | 34.32 | ug/L | | 99 |
| 101) 1,2,3-trichloropropane | 6.778 | 110 | 61958 | 44.77 | ug/L | | 94 |
| 102) n-propylbenzene | 6.825 | 91 | 627820 | 45.88 | ug/L | | 99 |
| 103) 2-chlorotoluene | 6.898 | 126 | 144871 | 46.19 | ug/L | | 96 |
| 104) 4-chlorotoluene | 6.987 | 126 | 147602 | 45.72 | ug/L | | 92 |
| 105) 1,3,5-trimethylbenzene | 6.961 | 105 | 425248 | 46.42 | ug/L | | 99 |
| 106) tert-butylbenzene | 7.197 | 119 | 358839 | 44.93 | ug/L | | 99 |
| 107) 1,2,4-trimethylbenzene | 7.239 | 105 | 432427 | 45.23 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92880.d
Acq On : 27 Sep 2022 9:00 pm
Operator : KYLEM
Sample : cc3747-50
Misc : MS62460,V2V3773,5,,,,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 27 21:11:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

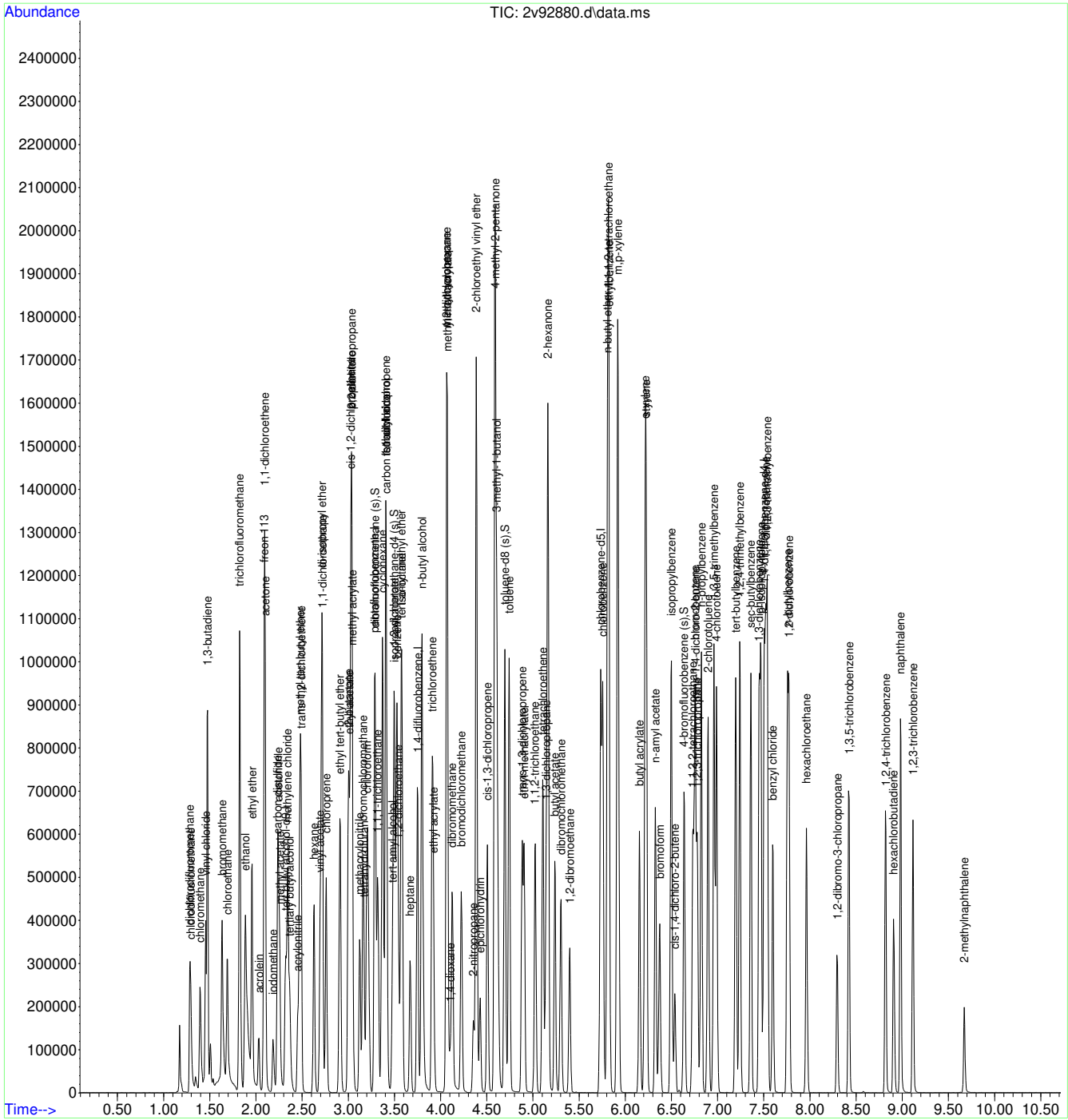
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 108) sec-butylbenzene | 7.360 | 105 | 500954 | 46.29 ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 285933 | 45.74 ug/L | 99 |
| 110) p-isopropyltoluene | 7.470 | 119 | 423646 | 46.16 ug/L | 99 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 444506 | 46.49 ug/L | 98 |
| 112) 1,4-dichlorobenzene | 7.522 | 146 | 293636 | 45.03 ug/L | 99 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 271940 | 46.15 ug/L | 100 |
| 114) benzyl chloride | 7.596 | 91 | 289770 | 47.75 ug/L | 100 |
| 115) n-butylbenzene | 7.758 | 92 | 186536 | 47.78 ug/L | 93 |
| 116) hexachloroethane | 7.963 | 201 | 63462 | 44.58 ug/L | 91 |
| 117) 1,2-dibromo-3-chloropr... | 8.298 | 157 | 60694 | 48.66 ug/L | 94 |
| 118) 1,3,5-trichlorobenzene | 8.424 | 180 | 159611 | 48.26 ug/L | 98 |
| 119) 1,2,4-trichlorobenzene | 8.822 | 180 | 140065 | 48.30 ug/L | 99 |
| 120) hexachlorobutadiene | 8.906 | 225 | 46969 | 45.87 ug/L | 99 |
| 121) naphthalene | 8.980 | 128 | 472306 | 48.46 ug/L | 99 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 130917 | 50.32 ug/L | 98 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 72014 | 21.74 ug/L | 94 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\September2022\9-28-22\v2v3773\
Data File : 2v92880.d
Acq On : 27 Sep 2022 9:00 pm
Operator : KYLEM
Sample : cc3747-50
Misc : MS62460,V2V3773,5,,,,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 27 21:11:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93000.d
Acq On : 29 Sep 2022 9:38 pm
Operator : KYLEM
Sample : cc3747-50 Inst : MS2V
Misc : MS62471,V2V3777,5,,,,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Sep 29 21:49:22 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 2.321 | 65 | 262413 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 309987 | 50.00 | ug/L | 0.00 |
| 50) 1,4-difluorobenzene | 3.752 | 114 | 435465 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 414948 | 50.00 | ug/L | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 186492 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 155644 | 50.35 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.70% | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.495 | 65 | 155810 | 50.46 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.92% | | | |
| 73) toluene-d8 (s) | 4.696 | 98 | 503020 | 49.25 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.50% | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 156117 | 46.89 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 93.78% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) ethanol | 1.886 | 45 | 503608 | 9448.35 | ug/L | 99 |
| 3) tertiary butyl alcohol | 2.368 | 59 | 182573 | 223.35 | ug/L | 99 |
| 4) 1,4-dioxane | 4.104 | 88 | 84367 | 1260.24 | ug/L | 99 |
| 6) chlorodifluoromethane | 1.299 | 51 | 108751 | 37.56 | ug/L | 98 |
| 7) dichlorodifluoromethane | 1.288 | 85 | 142376 | 41.11 | ug/L | 96 |
| 8) chloromethane | 1.398 | 52 | 52143 | 39.88 | ug/L | 98 |
| 9) vinyl chloride | 1.456 | 62 | 198672 | 46.79 | ug/L | 95 |
| 10) bromomethane | 1.634 | 96 | 161881 | 54.81 | ug/L | 95 |
| 11) chloroethane | 1.692 | 64 | 158654 | 62.30 | ug/L | 97 |
| 12) trichlorofluoromethane | 1.828 | 101 | 497944 | 79.20 | ug/L | 100 |
| 13) 1,3-butadiene | 1.477 | 54 | 202248 | 51.92 | ug/L | 99 |
| 14) ethyl ether | 1.959 | 74 | 130474 | 87.82 | ug/L | 94 |
| 15) acrolein | 2.033 | 56 | 55070 | 83.42 | ug/L | 95 |
| 16) freon 113 | 2.096 | 151 | 110717 | 44.41 | ug/L | 97 |
| 17) 1,1-dichloroethene | 2.096 | 61 | 179651 | 47.58 | ug/L | 96 |
| 18) acetone | 2.101 | 58 | 87970 | 220.07 | ug/L | 96 |
| 19) acetonitrile | 2.242 | 41 | 297364 | 579.24 | ug/L | 96 |
| 20) iodomethane | 2.190 | 142 | 105067 | 44.99 | ug/L | 97 |
| 21) carbon disulfide | 2.237 | 76 | 285145 | 41.34 | ug/L | 99 |
| 22) methylene chloride | 2.347 | 84 | 128982 | 45.87 | ug/L | 94 |
| 23) methyl acetate | 2.258 | 74 | 37369 | 52.03 | ug/L | 93 |
| 24) methyl tert butyl ether | 2.478 | 73 | 396732 | 51.93 | ug/L | 99 |
| 25) trans-1,2-dichloroethene | 2.489 | 96 | 128149 | 48.07 | ug/L | 99 |
| 26) hexane | 2.630 | 56 | 63431 | 42.93 | ug/L | 91 |
| 27) di-isopropyl ether | 2.714 | 45 | 403130 | 53.38 | ug/L | 99 |
| 28) ethyl tert-butyl ether | 2.913 | 59 | 381548 | 50.82 | ug/L | 98 |
| 29) 1,1-dichloroethane | 2.719 | 63 | 229139 | 50.25 | ug/L | 98 |
| 30) chloroprene | 2.761 | 53 | 166051 | 48.70 | ug/L | 97 |
| 31) acrylonitrile | 2.457 | 53 | 79073 | 56.35 | ug/L | 94 |
| 32) vinyl acetate | 2.698 | 86 | 29937 | 48.27 | ug/L # | 87 |
| 33) ethyl acetate | 3.008 | 45 | 38592 | 57.67 | ug/L # | 42 |
| 34) 2-butanone | 3.003 | 72 | 125623 | 231.89 | ug/L | 93 |
| 35) 2,2-dichloropropane | 3.039 | 77 | 197765 | 49.16 | ug/L | 98 |
| 36) cis-1,2-dichloroethene | 3.029 | 96 | 159316 | 51.70 | ug/L | 97 |
| 37) propionitrile | 3.039 | 54 | 383321 | 612.78 | ug/L | 97 |
| 38) methyl acrylate | 3.045 | 85 | 37880 | 52.73 | ug/L # | 70 |
| 39) bromochloromethane | 3.160 | 128 | 84356 | 52.36 | ug/L | 93 |
| 40) tetrahydrofuran | 3.176 | 71 | 32197 | 48.92 | ug/L | 91 |
| 41) chloroform | 3.202 | 83 | 251277 | 45.55 | ug/L | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93000.d
Acq On : 29 Sep 2022 9:38 pm
Operator : KYLEM
Sample : cc3747-50 Inst : MS2V
Misc : MS62471,V2V3777,5,,,,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Sep 29 21:49:22 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 43) methacrylonitrile | 3.123 | 67 | 81164 | 53.03 | ug/L | | 94 |
| 44) 1,1,1-trichloroethane | 3.322 | 97 | 218180 | 46.62 | ug/L | | 98 |
| 45) cyclohexane | 3.370 | 84 | 150036 | 41.05 | ug/L | | 93 |
| 46) 1,1-dichloropropene | 3.406 | 75 | 183782 | 50.24 | ug/L | | 99 |
| 47) carbon tetrachloride | 3.412 | 119 | 203423 | 47.03 | ug/L | | 97 |
| 48) isobutyl alcohol | 3.406 | 42 | 85530 | 646.08 | ug/L | | 93 |
| 49) tert-amyl alcohol | 3.485 | 55 | 67065 | 247.33 | ug/L | # | 73 |
| 52) n-butyl alcohol | 3.800 | 56 | 467927 | 3009.31 | ug/L | | 99 |
| 53) benzene | 3.527 | 78 | 493311 | 47.21 | ug/L | | 99 |
| 54) tert-amyl methyl ether | 3.579 | 73 | 401335 | 49.03 | ug/L | | 99 |
| 55) iso-octane | 3.579 | 57 | 255641 | 45.83 | ug/L | | 99 |
| 56) heptane | 3.674 | 57 | 46705 | 43.25 | ug/L | | 88 |
| 57) isopropyl acetate | 3.501 | 87 | 43267 | 51.06 | ug/L | # | 79 |
| 58) 1,2-dichloroethane | 3.543 | 62 | 204771 | 47.06 | ug/L | | 98 |
| 59) trichloroethene | 3.910 | 95 | 142060 | 45.93 | ug/L | | 98 |
| 60) ethyl acrylate | 3.925 | 55 | 251028 | 51.63 | ug/L | | 99 |
| 61) 2-nitropropane | 4.355 | 41 | 70645 | 54.75 | ug/L | | 98 |
| 62) 2-chloroethyl vinyl ether | 4.387 | 63 | 455840 | 278.60 | ug/L | | 97 |
| 63) methyl methacrylate | 4.072 | 100 | 52588 | 49.57 | ug/L | # | 77 |
| 64) 1,2-dichloropropane | 4.067 | 63 | 138209 | 50.55 | ug/L | | 94 |
| 65) methylcyclohexane | 4.067 | 83 | 179604 | 46.61 | ug/L | | 99 |
| 66) dibromomethane | 4.125 | 93 | 114557 | 47.89 | ug/L | | 93 |
| 67) bromodichloromethane | 4.224 | 83 | 197634 | 47.00 | ug/L | | 99 |
| 68) epichlorohydrin | 4.429 | 57 | 117464 | 259.59 | ug/L | | 95 |
| 69) cis-1,3-dichloropropene | 4.507 | 75 | 214113 | 48.88 | ug/L | | 99 |
| 70) 4-methyl-2-pentanone | 4.591 | 58 | 375611 | 228.99 | ug/L | | 96 |
| 71) 3-methyl-1-butanol | 4.607 | 70 | 186535 | 1201.38 | ug/L | | 90 |
| 74) toluene | 4.743 | 92 | 316401 | 45.46 | ug/L | | 97 |
| 75) ethyl methacrylate | 4.906 | 69 | 203805 | 50.39 | ug/L | | 97 |
| 76) trans-1,3-dichloropropene | 4.885 | 75 | 203692 | 49.06 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 5.026 | 83 | 120560 | 49.97 | ug/L | | 99 |
| 78) 2-hexanone | 5.163 | 58 | 390459 | 220.98 | ug/L | | 96 |
| 79) tetrachloroethene | 5.105 | 164 | 123719 | 45.83 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 5.142 | 76 | 221651 | 49.83 | ug/L | | 99 |
| 81) butyl acetate | 5.236 | 56 | 115240 | 51.38 | ug/L | | 94 |
| 82) dibromochloromethane | 5.304 | 129 | 180339 | 47.53 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 5.399 | 107 | 168562 | 49.75 | ug/L | | 97 |
| 84) n-butyl ether | 5.808 | 57 | 501315 | 50.45 | ug/L | | 98 |
| 85) chlorobenzene | 5.755 | 112 | 383340 | 45.72 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 5.818 | 131 | 166582 | 50.80 | ug/L | | 97 |
| 87) ethylbenzene | 5.823 | 91 | 630822 | 47.92 | ug/L | | 99 |
| 88) m,p-xylene | 5.918 | 106 | 482104 | 94.45 | ug/L | | 99 |
| 89) o-xylene | 6.217 | 91 | 480440 | 47.60 | ug/L | | 98 |
| 90) styrene | 6.227 | 104 | 403606 | 48.19 | ug/L | | 99 |
| 91) butyl acrylate | 6.154 | 56 | 135191 | 54.36 | ug/L | | 96 |
| 92) n-amyl acetate | 6.327 | 70 | 111157 | 50.08 | ug/L | | 94 |
| 93) bromoform | 6.374 | 173 | 136651 | 48.66 | ug/L | | 99 |
| 94) isopropylbenzene | 6.500 | 105 | 562408 | 46.96 | ug/L | | 98 |
| 95) cis-1,4-dichloro-2-butene | 6.536 | 88 | 33473 | 23.91 | ug/L | | 94 |
| 98) bromobenzene | 6.757 | 156 | 172936 | 45.85 | ug/L | | 92 |
| 99) 1,1,2,2-tetrachloroethane | 6.730 | 83 | 225869 | 48.78 | ug/L | | 97 |
| 100) trans-1,4-dichloro-2-b... | 6.762 | 53 | 29659 | 27.16 | ug/L | | 98 |
| 101) 1,2,3-trichloropropane | 6.778 | 110 | 65394 | 47.51 | ug/L | | 98 |
| 102) n-propylbenzene | 6.825 | 91 | 620866 | 45.62 | ug/L | | 99 |
| 103) 2-chlorotoluene | 6.898 | 126 | 143994 | 46.16 | ug/L | | 97 |
| 104) 4-chlorotoluene | 6.987 | 126 | 147317 | 45.88 | ug/L | | 95 |
| 105) 1,3,5-trimethylbenzene | 6.961 | 105 | 417625 | 45.83 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93000.d
Acq On : 29 Sep 2022 9:38 pm
Operator : KYLEM
Sample : cc3747-50 Inst : MS2V
Misc : MS62471,V2V3777,5,,,,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Sep 29 21:49:22 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

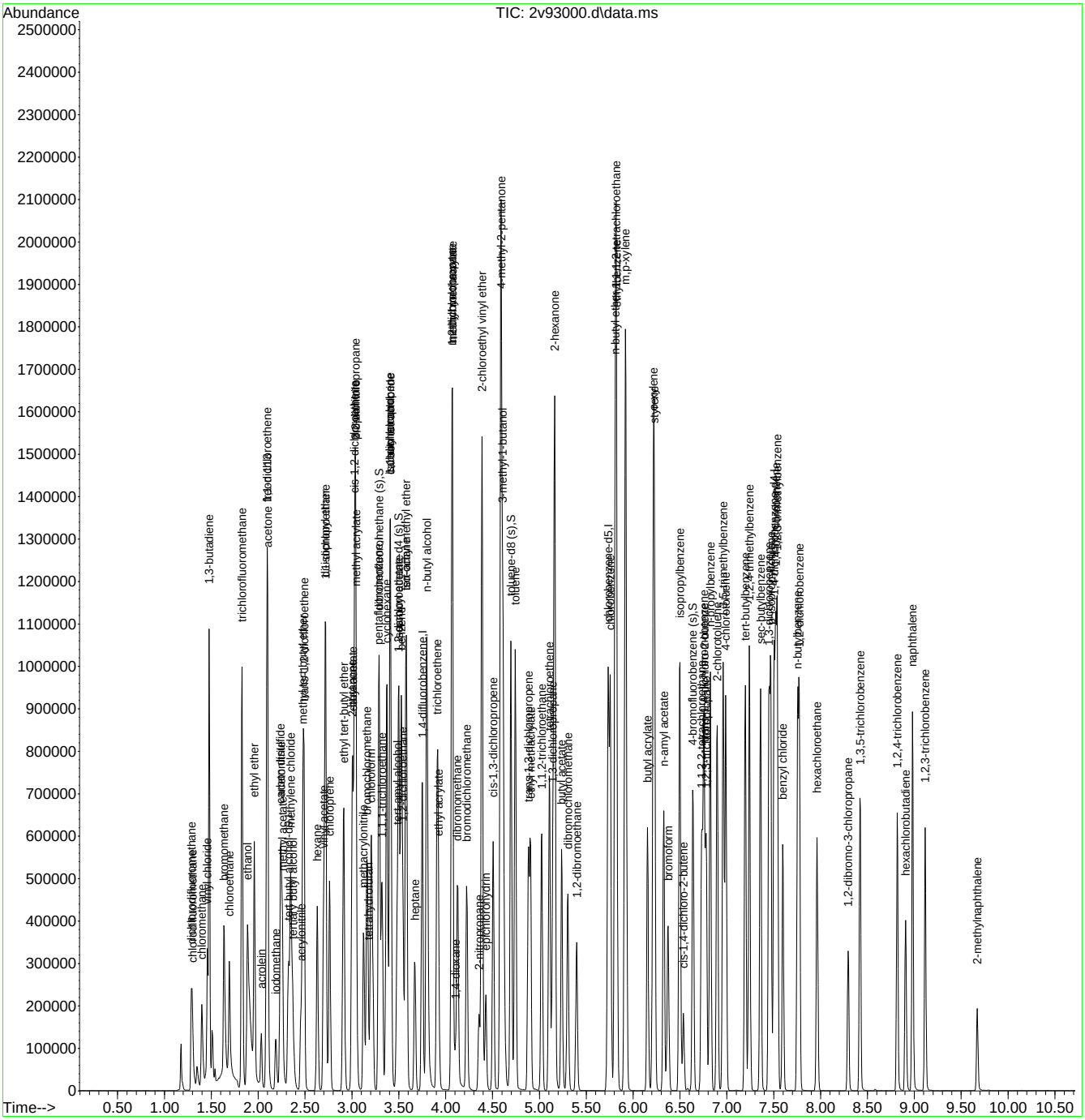
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) tert-butylbenzene | 7.197 | 119 | 353920 | 44.55 | ug/L | 97 |
| 107) 1,2,4-trimethylbenzene | 7.239 | 105 | 426999 | 44.90 | ug/L | 96 |
| 108) sec-butylbenzene | 7.360 | 105 | 491997 | 45.71 | ug/L | 98 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 284164 | 45.70 | ug/L | 98 |
| 110) p-isopropyltoluene | 7.470 | 119 | 412025 | 45.13 | ug/L | 100 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 435332 | 45.77 | ug/L | 96 |
| 112) 1,4-dichlorobenzene | 7.522 | 146 | 291921 | 45.00 | ug/L | 99 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 270702 | 46.19 | ug/L | 99 |
| 114) benzyl chloride | 7.595 | 91 | 285686 | 47.33 | ug/L | 99 |
| 115) n-butylbenzene | 7.753 | 92 | 182649 | 47.04 | ug/L | 96 |
| 116) hexachloroethane | 7.963 | 201 | 61922 | 43.73 | ug/L | 94 |
| 117) 1,2-dibromo-3-chloropr... | 8.293 | 157 | 62671 | 50.51 | ug/L | 97 |
| 118) 1,3,5-trichlorobenzene | 8.424 | 180 | 158930 | 48.31 | ug/L | 97 |
| 119) 1,2,4-trichlorobenzene | 8.817 | 180 | 141678 | 49.12 | ug/L | 99 |
| 120) hexachlorobutadiene | 8.906 | 225 | 46804 | 45.95 | ug/L | 98 |
| 121) naphthalene | 8.980 | 128 | 480755 | 49.59 | ug/L | 100 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 129657 | 50.10 | ug/L | 98 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 71317 | 21.64 | ug/L | 99 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-3\v2v3777\
Data File : 2v93000.d
Acq On : 29 Sep 2022 9:38 pm
Operator : KYLEM
Sample : cc3747-50 Inst : MS2V
Misc : MS62471,V2V3777,5,,,,1
ALS Vial : 32 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Results File: M2V3747.RES
Quant Time: Sep 29 21:49:22 2022
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-3-22\v2v3782- due today\
Data File : 2v93125.d
Acq On : 3 Oct 2022 11:49 am
Operator : taylors
Sample : cc3747-20
Misc : MS62619,V2V3782,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 03 12:00:48 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) tert butyl alcohol-d9 | 2.316 | 65 | 295565 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 3.286 | 168 | 319636 | 50.00 | ug/L | | 0.00 |
| 50) 1,4-difluorobenzene | 3.747 | 114 | 459640 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 5.734 | 117 | 425642 | 50.00 | ug/L | | 0.00 |
| 96) 1,4-dichlorobenzene-d4 | 7.506 | 152 | 192257 | 50.00 | ug/L | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 42) dibromofluoromethane (s) | 3.291 | 113 | 170376 | 53.45 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.90% | | | | |
| 51) 1,2-dichloroethane-d4 (s) | 3.490 | 65 | 171006 | 52.47 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 104.94% | | | | |
| 73) toluene-d8 (s) | 4.691 | 98 | 542776 | 51.81 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.62% | | | | |
| 97) 4-bromofluorobenzene (s) | 6.636 | 95 | 166627 | 48.54 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.08% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) ethanol | 1.875 | 45 | 137490 | 2290.16 | ug/L | | 96 |
| 3) tertiary butyl alcohol | 2.358 | 59 | 83139 | 90.30 | ug/L | | 98 |
| 4) 1,4-dioxane | 4.098 | 88 | 36170 | 479.69 | ug/L | | 93 |
| 6) chlorodifluoromethane | 1.288 | 51 | 31801 | 10.65 | ug/L | | 93 |
| 7) dichlorodifluoromethane | 1.278 | 85 | 68070 | 19.06 | ug/L | | 99 |
| 8) chloromethane | 1.388 | 52 | 31819 | 23.60 | ug/L | | 96 |
| 9) vinyl chloride | 1.445 | 62 | 121523 | 27.75 | ug/L | | 99 |
| 10) bromomethane | 1.629 | 96 | 96951 | 31.83 | ug/L | | 96 |
| 11) chloroethane | 1.687 | 64 | 84116 | 32.04 | ug/L | | 99 |
| 12) trichlorofluoromethane | 1.818 | 101 | 112657 | 17.38 | ug/L | | 97 |
| 13) 1,3-butadiene | 1.466 | 54 | 102298 | 25.47 | ug/L | | 99 |
| 14) ethyl ether | 1.954 | 74 | 29301 | 19.13 | ug/L | | 88 |
| 15) acrolein | 2.027 | 56 | 15338 | 22.53 | ug/L | | 92 |
| 16) freon 113 | 2.085 | 151 | 44761 | 17.41 | ug/L | | 95 |
| 17) 1,1-dichloroethene | 2.090 | 61 | 72539 | 18.63 | ug/L | | 98 |
| 18) acetone | 2.096 | 58 | 36783 | 89.24 | ug/L | | 99 |
| 19) acetonitrile | 2.237 | 41 | 131580 | 248.57 | ug/L | | 97 |
| 20) iodomethane | 2.180 | 142 | 15543 | 8.65 | ug/L | | 97 |
| 21) carbon disulfide | 2.227 | 76 | 115295 | 16.21 | ug/L | | 98 |
| 22) methylene chloride | 2.342 | 84 | 56172 | 19.37 | ug/L | | 94 |
| 23) methyl acetate | 2.248 | 74 | 15506 | 20.94 | ug/L | # | 74 |
| 24) methyl tert butyl ether | 2.468 | 73 | 169632 | 21.53 | ug/L | | 99 |
| 25) trans-1,2-dichloroethene | 2.484 | 96 | 54835 | 19.95 | ug/L | | 98 |
| 26) hexane | 2.625 | 56 | 30810 | 20.22 | ug/L | | 94 |
| 27) di-isopropyl ether | 2.709 | 45 | 177774 | 22.83 | ug/L | | 98 |
| 28) ethyl tert-butyl ether | 2.908 | 59 | 168285 | 21.74 | ug/L | | 97 |
| 29) 1,1-dichloroethane | 2.714 | 63 | 103015 | 21.91 | ug/L | | 98 |
| 30) chloroprene | 2.756 | 53 | 75650 | 21.52 | ug/L | | 98 |
| 31) acrylonitrile | 2.447 | 53 | 32466 | 22.44 | ug/L | | 95 |
| 32) vinyl acetate | 2.688 | 86 | 13168 | 20.59 | ug/L | # | 54 |
| 33) ethyl acetate | 3.003 | 45 | 15270 | 22.13 | ug/L | # | 42 |
| 34) 2-butanone | 2.997 | 72 | 52087 | 93.25 | ug/L | # | 87 |
| 35) 2,2-dichloropropane | 3.034 | 77 | 92235 | 22.23 | ug/L | | 99 |
| 36) cis-1,2-dichloroethene | 3.024 | 96 | 68149 | 21.45 | ug/L | | 94 |
| 37) propionitrile | 3.029 | 54 | 163874 | 254.06 | ug/L | | 73 |
| 38) methyl acrylate | 3.045 | 85 | 16034 | 21.64 | ug/L | | 95 |
| 39) bromochloromethane | 3.155 | 128 | 35251 | 21.22 | ug/L | | 87 |
| 40) tetrahydrofuran | 3.165 | 71 | 14083 | 20.75 | ug/L | | 91 |
| 41) chloroform | 3.197 | 83 | 112399 | 19.76 | ug/L | | 98 |
| 43) methacrylonitrile | 3.123 | 67 | 36236 | 22.96 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-3-22\v2v3782- due today\
Data File : 2v93125.d
Acq On : 3 Oct 2022 11:49 am
Operator : taylors
Sample : cc3747-20
Misc : MS62619,V2V3782,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 03 12:00:48 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 44) | 1,1,1-trichloroethane | 3.317 | 97 | 96543 | 20.00 | ug/L | | 97 |
| 45) | cyclohexane | 3.370 | 84 | 73288 | 19.45 | ug/L | # | 88 |
| 46) | 1,1-dichloropropene | 3.401 | 75 | 79289 | 21.02 | ug/L | | 96 |
| 47) | carbon tetrachloride | 3.406 | 119 | 84923 | 19.04 | ug/L | | 97 |
| 48) | isobutyl alcohol | 3.401 | 42 | 38208 | 279.90 | ug/L | | 95 |
| 49) | tert-amyl alcohol | 3.475 | 55 | 30100 | 107.66 | ug/L | # | 73 |
| 52) | n-butyl alcohol | 3.789 | 56 | 195833 | 1193.19 | ug/L | | 99 |
| 53) | benzene | 3.522 | 78 | 218870 | 19.85 | ug/L | | 99 |
| 54) | tert-amyl methyl ether | 3.574 | 73 | 176943 | 20.48 | ug/L | | 99 |
| 55) | iso-octane | 3.574 | 57 | 113518 | 19.28 | ug/L | | 96 |
| 56) | heptane | 3.669 | 57 | 22439 | 19.69 | ug/L | | 91 |
| 57) | isopropyl acetate | 3.495 | 87 | 18862 | 21.09 | ug/L | # | 57 |
| 58) | 1,2-dichloroethane | 3.537 | 62 | 89871 | 19.57 | ug/L | | 99 |
| 59) | trichloroethene | 3.904 | 95 | 62945 | 19.28 | ug/L | | 96 |
| 60) | ethyl acrylate | 3.920 | 55 | 110988 | 21.63 | ug/L | | 97 |
| 61) | 2-nitropropane | 4.350 | 41 | 21452 | 15.75 | ug/L | | 97 |
| 62) | 2-chloroethyl vinyl ether | 4.387 | 63 | 197434 | 114.32 | ug/L | | 97 |
| 63) | methyl methacrylate | 4.072 | 100 | 21825 | 19.49 | ug/L | # | 91 |
| 64) | 1,2-dichloropropane | 4.067 | 63 | 61525 | 21.32 | ug/L | | 94 |
| 65) | methylcyclohexane | 4.062 | 83 | 75149 | 18.48 | ug/L | | 96 |
| 66) | dibromomethane | 4.125 | 93 | 49817 | 19.73 | ug/L | | 96 |
| 67) | bromodichloromethane | 4.224 | 83 | 87479 | 19.71 | ug/L | | 99 |
| 68) | epichlorohydrin | 4.424 | 57 | 51867 | 108.59 | ug/L | | 92 |
| 69) | cis-1,3-dichloropropene | 4.507 | 75 | 94557 | 20.45 | ug/L | | 99 |
| 70) | 4-methyl-2-pentanone | 4.586 | 58 | 160810 | 92.88 | ug/L | | 91 |
| 71) | 3-methyl-1-butanol | 4.607 | 70 | 77600 | 473.50 | ug/L | | 97 |
| 74) | toluene | 4.743 | 92 | 137509 | 19.26 | ug/L | | 98 |
| 75) | ethyl methacrylate | 4.901 | 69 | 92170 | 22.21 | ug/L | | 95 |
| 76) | trans-1,3-dichloropropene | 4.880 | 75 | 89159 | 20.93 | ug/L | | 97 |
| 77) | 1,1,2-trichloroethane | 5.021 | 83 | 52628 | 21.26 | ug/L | | 95 |
| 78) | 2-hexanone | 5.163 | 58 | 170300 | 93.96 | ug/L | | 93 |
| 79) | tetrachloroethene | 5.105 | 164 | 51628 | 18.65 | ug/L | | 99 |
| 80) | 1,3-dichloropropane | 5.142 | 76 | 96574 | 21.17 | ug/L | | 99 |
| 81) | butyl acetate | 5.236 | 56 | 53311 | 23.17 | ug/L | | 99 |
| 82) | dibromochloromethane | 5.299 | 129 | 75585 | 19.42 | ug/L | | 99 |
| 83) | 1,2-dibromoethane | 5.393 | 107 | 71163 | 20.47 | ug/L | | 95 |
| 84) | n-butyl ether | 5.802 | 57 | 229338 | 22.50 | ug/L | | 97 |
| 85) | chlorobenzene | 5.755 | 112 | 163446 | 19.01 | ug/L | | 98 |
| 86) | 1,1,1,2-tetrachloroethane | 5.813 | 131 | 64959 | 19.31 | ug/L | | 98 |
| 87) | ethylbenzene | 5.818 | 91 | 270624 | 20.04 | ug/L | | 98 |
| 88) | m,p-xylene | 5.918 | 106 | 206020 | 39.35 | ug/L | | 99 |
| 89) | o-xylene | 6.217 | 91 | 205435 | 19.84 | ug/L | | 100 |
| 90) | styrene | 6.227 | 104 | 170950 | 19.90 | ug/L | | 98 |
| 91) | butyl acrylate | 6.154 | 56 | 62504 | 24.50 | ug/L | | 91 |
| 92) | n-amyl acetate | 6.327 | 70 | 51449 | 22.60 | ug/L | | 90 |
| 93) | bromoform | 6.374 | 173 | 53200 | 18.47 | ug/L | | 99 |
| 94) | isopropylbenzene | 6.495 | 105 | 243911 | 19.85 | ug/L | | 99 |
| 95) | cis-1,4-dichloro-2-butene | 6.536 | 88 | 11813 | 8.22 | ug/L | | 90 |
| 98) | bromobenzene | 6.751 | 156 | 70627 | 18.16 | ug/L | | 98 |
| 99) | 1,1,2,2-tetrachloroethane | 6.730 | 83 | 98735 | 20.69 | ug/L | | 99 |
| 100) | trans-1,4-dichloro-2-b... | 6.757 | 53 | 10610 | 9.42 | ug/L | | 87 |
| 101) | 1,2,3-trichloropropane | 6.778 | 110 | 28164 | 19.85 | ug/L | | 98 |
| 102) | n-propylbenzene | 6.825 | 91 | 275959 | 19.67 | ug/L | | 99 |
| 103) | 2-chlorotoluene | 6.898 | 126 | 61099 | 19.00 | ug/L | | 88 |
| 104) | 4-chlorotoluene | 6.987 | 126 | 64372 | 19.45 | ug/L | | 94 |
| 105) | 1,3,5-trimethylbenzene | 6.961 | 105 | 182556 | 19.43 | ug/L | | 98 |
| 106) | tert-butylbenzene | 7.197 | 119 | 154027 | 18.81 | ug/L | | 98 |
| 107) | 1,2,4-trimethylbenzene | 7.239 | 105 | 189315 | 19.31 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-3-22\v2v3782- due today\
Data File : 2v93125.d
Acq On : 3 Oct 2022 11:49 am
Operator : taylors
Sample : cc3747-20
Misc : MS62619,V2V3782,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 03 12:00:48 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration

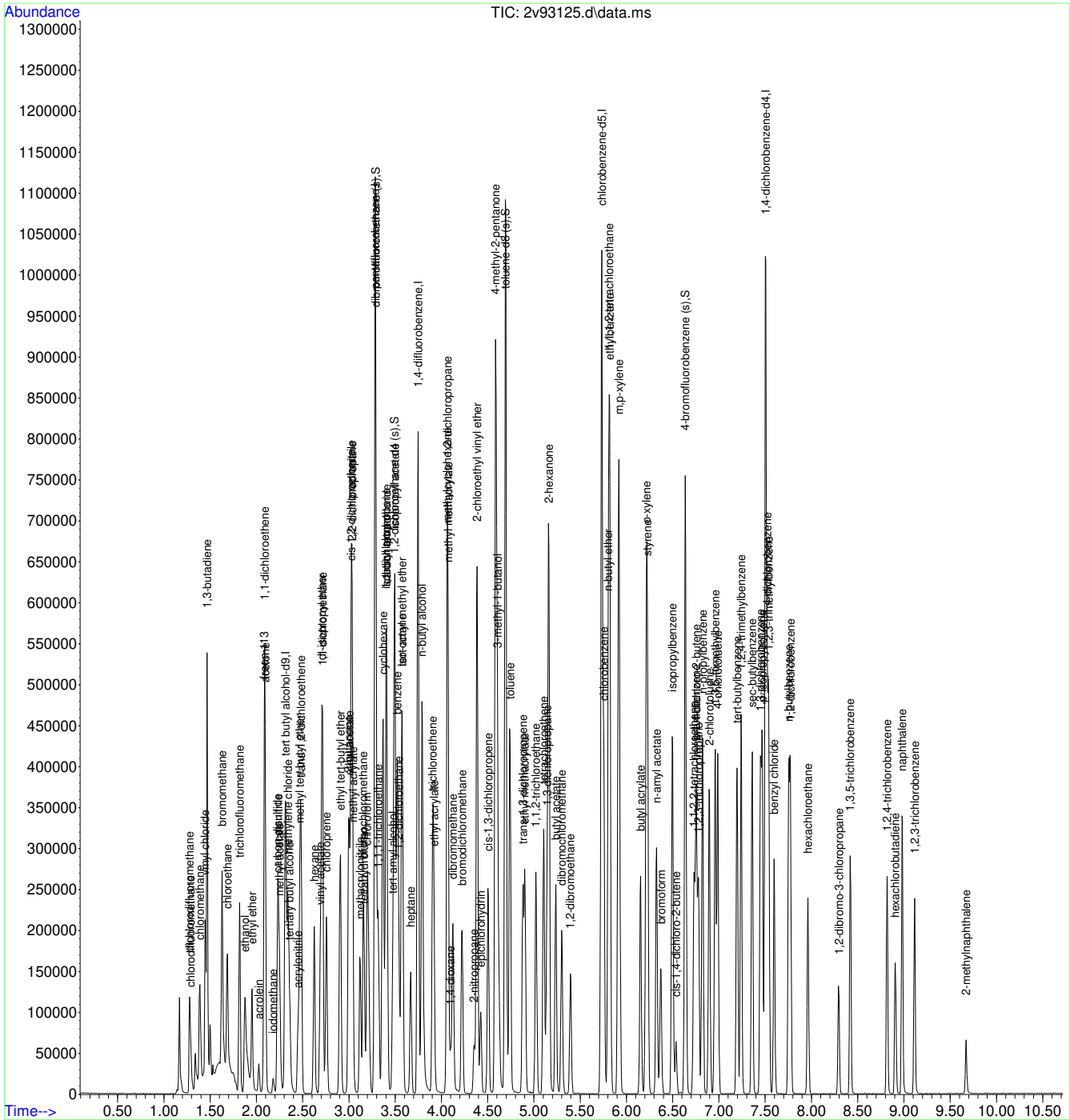
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 108) sec-butylbenzene | 7.360 | 105 | 218240 | 19.67 | ug/L | 99 |
| 109) 1,3-dichlorobenzene | 7.449 | 146 | 119988 | 18.72 | ug/L | 98 |
| 110) p-isopropyltoluene | 7.470 | 119 | 178447 | 18.96 | ug/L | 98 |
| 111) 1,2,3-trimethylbenzene | 7.538 | 105 | 191228 | 19.50 | ug/L | 96 |
| 112) 1,4-dichlorobenzene | 7.522 | 146 | 122166 | 18.27 | ug/L | 98 |
| 113) 1,2-dichlorobenzene | 7.774 | 146 | 111845 | 18.51 | ug/L | 98 |
| 114) benzyl chloride | 7.596 | 91 | 139557 | 22.43 | ug/L | 97 |
| 115) n-butylbenzene | 7.753 | 92 | 80431 | 20.09 | ug/L | 95 |
| 116) hexachloroethane | 7.963 | 201 | 22573 | 15.46 | ug/L | 87 |
| 117) 1,2-dibromo-3-chloropr... | 8.298 | 157 | 23631 | 18.48 | ug/L | 95 |
| 118) 1,3,5-trichlorobenzene | 8.419 | 180 | 63827 | 18.82 | ug/L | 98 |
| 119) 1,2,4-trichlorobenzene | 8.817 | 180 | 54569 | 18.35 | ug/L | 98 |
| 120) hexachlorobutadiene | 8.906 | 225 | 18800 | 17.90 | ug/L | 95 |
| 121) naphthalene | 8.980 | 128 | 179189 | 17.93 | ug/L | 99 |
| 122) 1,2,3-trichlorobenzene | 9.116 | 180 | 48451 | 18.16 | ug/L | 95 |
| 123) 2-methylnaphthalene | 9.672 | 142 | 23865 | 7.03 | ug/L | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\Ocotober2022\10-3-22\v2v3782- due today\
Data File : 2v93125.d
Acq On : 3 Oct 2022 11:49 am
Operator : taylors
Sample : cc3747-20
Misc : MS62619,V2V3782,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 03 12:00:48 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2V3747.M
Quant Title : SW 846 Method 8260C/D, Rxi-624 (30m x 0.25mm x 1.4um)
QLast Update : Mon Sep 12 11:19:58 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 06/22/22 18:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342968.D
Acq On : 15 Jun 2022 4:25 pm
Operator : BridgetK
Sample : ic10355-0.2
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 17 18:01:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

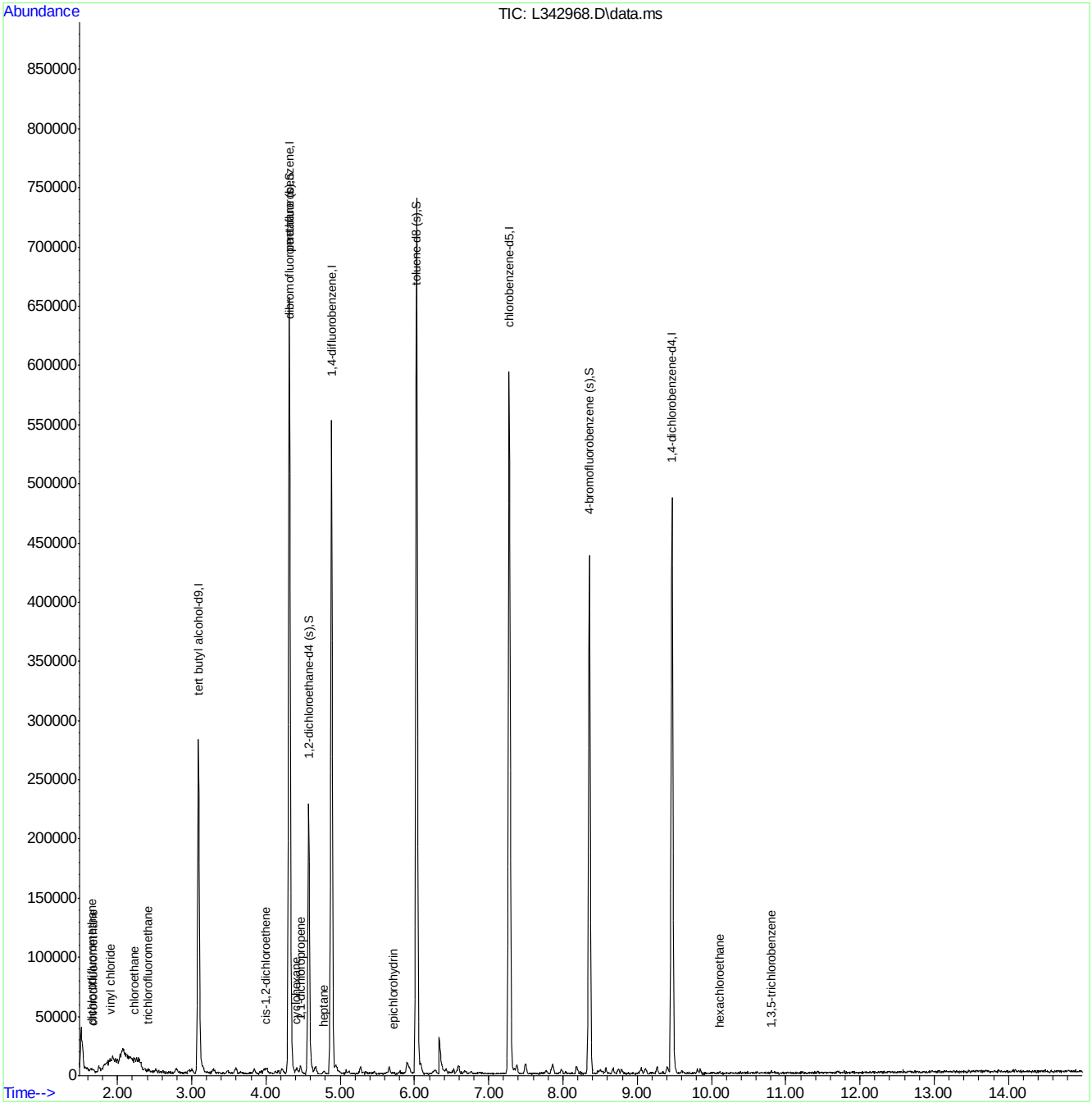
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.092 | 65 | 277572 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.314 | 168 | 263586 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.882 | 114 | 379866 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 328492 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.471 | 152 | 127404 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.321 | 113 | 116894 | 48.39 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.78% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.577 | 65 | 143797 | 53.06 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 106.12% | | | | |
| 73) toluene-d8 (s) | 6.028 | 98 | 470545 | 54.59 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 109.18% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.358 | 95 | 164910 | 50.16 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.32% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 6) chlorodifluoromethane | 1.677 | 51 | 669 | 0.23 | ug/L | # | 52 |
| 7) dichlorodifluoromethane | 1.657 | 85 | 1059m | 0.25 | ug/L | | |
| 9) vinyl chloride | 1.904 | 62 | 788 | 0.23 | ug/L | | 91 |
| 12) chloroethane | 2.232 | 64 | 464 | 0.24 | ug/L | # | 47 |
| 13) trichlorofluoromethane | 2.415 | 101 | 889 | 0.18 | ug/L | | 74 |
| 37) cis-1,2-dichloroethene | 3.997 | 96 | 661 | 0.23 | ug/L | # | 44 |
| 46) cyclohexane | 4.411 | 84 | 845 | 0.21 | ug/L | # | 78 |
| 47) 1,1-dichloropropene | 4.462 | 75 | 798 | 0.22 | ug/L | # | 62 |
| 57) heptane | 4.780 | 57 | 354 | 0.24 | ug/L | # | 5 |
| 69) epichlorohydrin | 5.717 | 57 | 1117 | 2.28 | ug/L | # | 59 |
| 115) 1,3,5-trichlorobenzene | 10.809 | 180 | 620 | 0.21 | ug/L | | 83 |
| 120) hexachloroethane | 10.110 | 119 | 381 | 0.22 | ug/L | # | 44 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342968.D
Acq On : 15 Jun 2022 4:25 pm
Operator : BridgetK
Sample : ic10355-0.2
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 17 18:01:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration




ML10355.M Tue Jun 21 15:32:31 2022 1 Page: 2

# Manual Integration Approval Summary



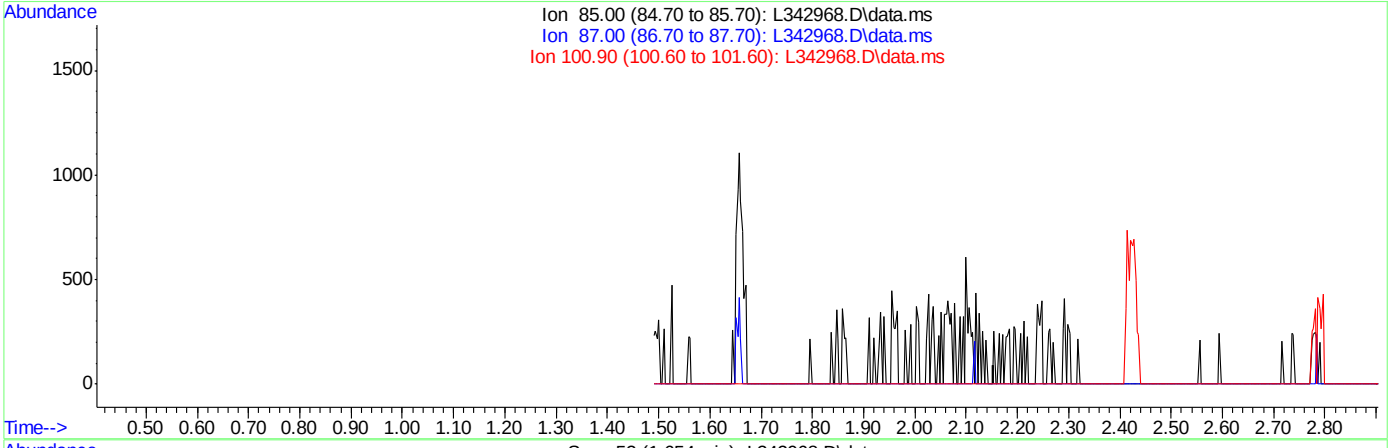
| | | | |
|---|---|---|---|
| **Sample Number:** | VL10355-IC10355 | **Method:** | SW846 8260D |
| **Lab FileID:** | L342968.D | **Analyst approved:** | 06/22/22 18:38 Kanya Veerawat |
| **Injection Time:** | 06/15/22 16:25 | **Supervisor approved:** | 06/22/22 18:38 Kanya Veerawat |

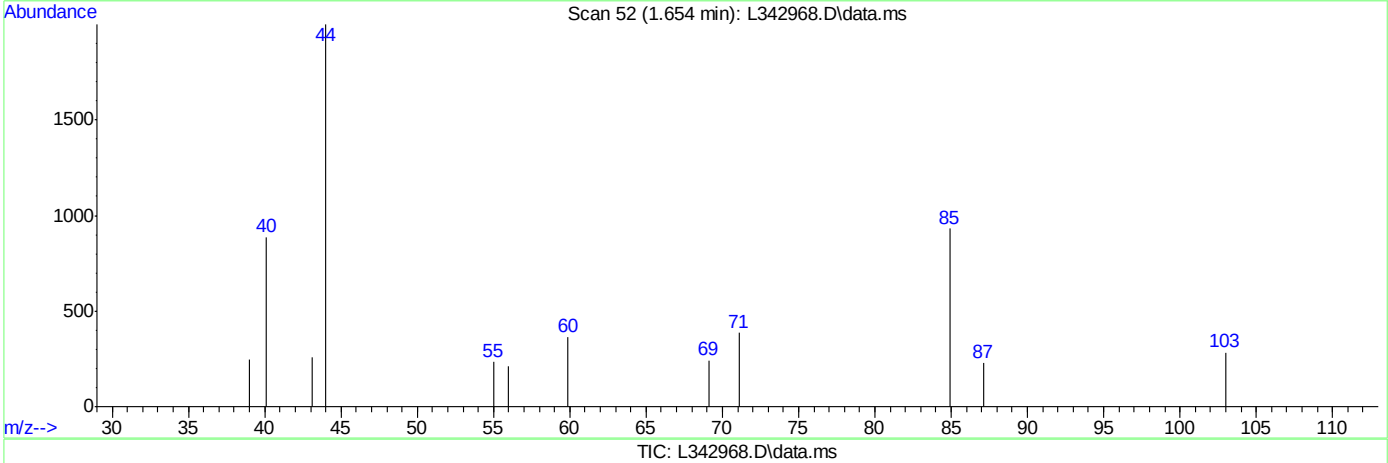
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Dichlorodifluoromethane | 75-71-8 | | 1.66 | Missed peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342968.D
Acq On : 15 Jun 2022 4:25 pm
Operator : BridgetK
Sample : ic10355-0.2
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 15:08:49 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration




TIC: L342968.D\data.ms

(7) dichlorodifluoromethane

1.654min 0.00ug/L d

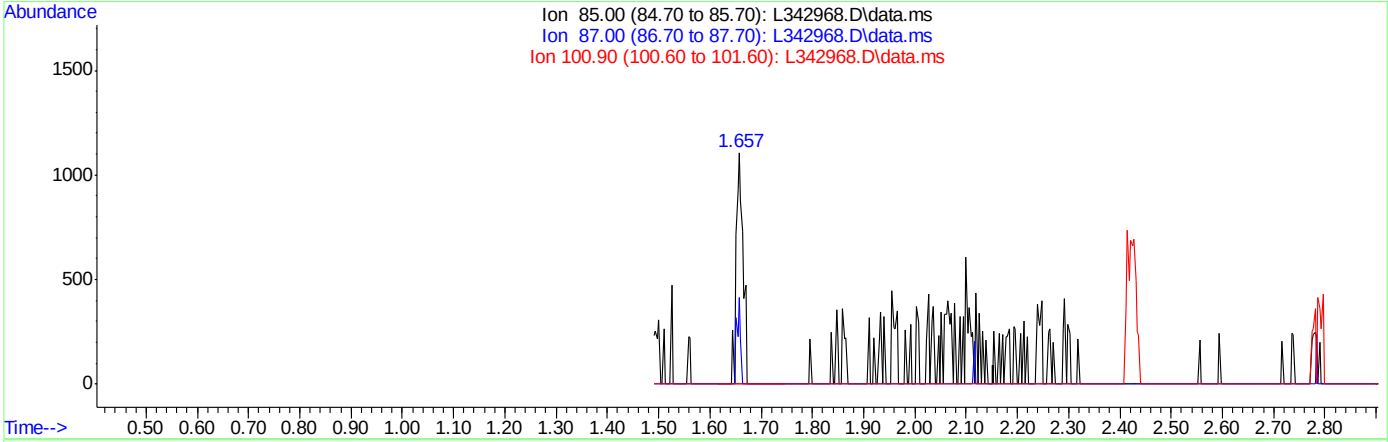
response 0

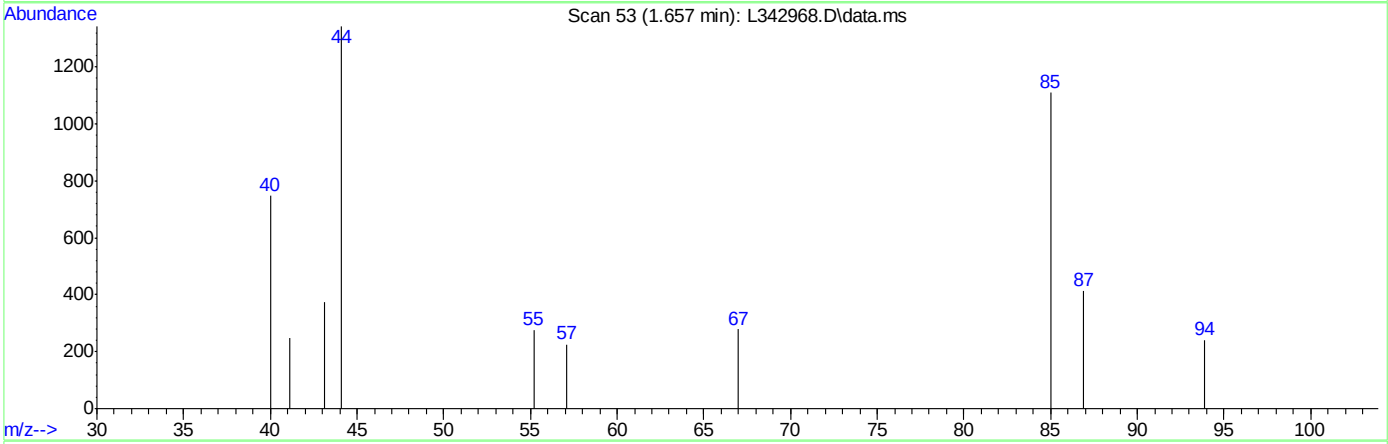
| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 0.00 |
| 87.00 | 33.00 | 0.00 |
| 100.90 | 8.90 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342968.D
Acq On : 15 Jun 2022 4:25 pm
Operator : BridgetK
Sample : ic10355-0.2
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 15:08:49 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration




TIC: L342968.D\data.ms

(7) dichlorodifluoromethane

1.657min (+0.003) 0.25ug/L m

response 1059

| Ion | Exp% | Act% |
|---|---|---|
| 85.00 | 100 | 100 |
| 87.00 | 33.00 | 37.18 |
| 100.90 | 8.90 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342969.D
Acq On : 15 Jun 2022 4:48 pm
Operator : BridgetK
Sample : ic10355-0.5
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 15:10:57 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.092 | 65 | 274323 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.314 | 168 | 255051 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.882 | 114 | 368348 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.279 | 117 | 321113 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 124594 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.324 | 113 | 113357 | 48.49 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 96.98% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.577 | 65 | 140259 | 53.37 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 106.74% | | | | |
| 73) toluene-d8 (s) | 6.028 | 98 | 460317 | 54.63 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 109.26% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 162731 | 50.61 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.22% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 6) chlorodifluoromethane | 1.673 | 51 | 1548 | 0.55 | ug/L | # | 59 |
| 7) dichlorodifluoromethane | 1.664 | 85 | 1970 | 0.47 | ug/L | | 82 |
| 9) vinyl chloride | 1.898 | 62 | 1960 | 0.59 | ug/L | | 86 |
| 12) chloroethane | 2.241 | 64 | 1184 | 0.62 | ug/L | | 62 |
| 13) trichlorofluoromethane | 2.421 | 101 | 2509 | 0.53 | ug/L | | 91 |
| 16) freon 113 | 2.784 | 151 | 1024 | 0.53 | ug/L | # | 58 |
| 17) 1,1-dichloroethene | 2.793 | 96 | 1381 | 0.58 | ug/L | # | 50 |
| 25) methyl tert butyl ether | 3.291 | 73 | 4885 | 0.54 | ug/L | | 94 |
| 26) trans-1,2-dichloroethene | 3.310 | 96 | 1506 | 0.60 | ug/L | # | 77 |
| 27) hexane | 3.477 | 57 | 1976 | 0.56 | ug/L | | 89 |
| 28) di-isopropyl ether | 3.595 | 45 | 4074 | 0.56 | ug/L | | 88 |
| 29) ethyl tert-butyl ether | 3.833 | 59 | 4499 | 0.52 | ug/L | | 83 |
| 30) 2-butanone | 3.971 | 72 | 1419 | 2.27 | ug/L | # | 65 |
| 31) 1,1-dichloroethane | 3.605 | 63 | 2360 | 0.53 | ug/L | | 86 |
| 32) chloroprene | 3.656 | 53 | 2149 | 0.61 | ug/L | | 78 |
| 36) 2,2-dichloropropane | 4.000 | 77 | 2394 | 0.58 | ug/L | | 80 |
| 37) cis-1,2-dichloroethene | 3.993 | 96 | 1606 | 0.58 | ug/L | | 78 |
| 40) bromochloromethane | 4.157 | 128 | 689 | 0.54 | ug/L | # | 78 |
| 41) tetrahydrofuran | 4.176 | 72 | 277 | 0.38 | ug/L | # | 35 |
| 45) 1,1,1-trichloroethane | 4.346 | 97 | 2395 | 0.55 | ug/L | # | 40 |
| 46) cyclohexane | 4.414 | 84 | 2085 | 0.55 | ug/L | # | 54 |
| 47) 1,1-dichloropropene | 4.455 | 75 | 1860 | 0.53 | ug/L | | 85 |
| 48) carbon tetrachloride | 4.465 | 117 | 2054 | 0.60 | ug/L | # | 63 |
| 55) n-butyl alcohol | 4.946 | 56 | 4439 | 26.13 | ug/L | | 77 |
| 56) benzene | 4.609 | 78 | 5329 | 0.58 | ug/L | | 86 |
| 57) heptane | 4.780 | 57 | 929 | 0.65 | ug/L | # | 58 |
| 59) trichloroethene | 5.084 | 95 | 1717 | 0.65 | ug/L | # | 58 |
| 62) 2-chloroethyl vinyl ether | 5.659 | 63 | 4097 | 2.63 | ug/L | | 94 |
| 65) methylcyclohexane | 5.271 | 83 | 1955 | 0.46 | ug/L | | 84 |
| 66) dibromomethane | 5.351 | 93 | 973 | 0.59 | ug/L | # | 70 |
| 67) bromodichloromethane | 5.463 | 83 | 2449 | 0.65 | ug/L | | 72 |
| 68) cis-1,3-dichloropropene | 5.810 | 75 | 2352 | 0.52 | ug/L | | 69 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342969.D
Acq On : 15 Jun 2022 4:48 pm
Operator : BridgetK
Sample : ic10355-0.5
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 15:10:57 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

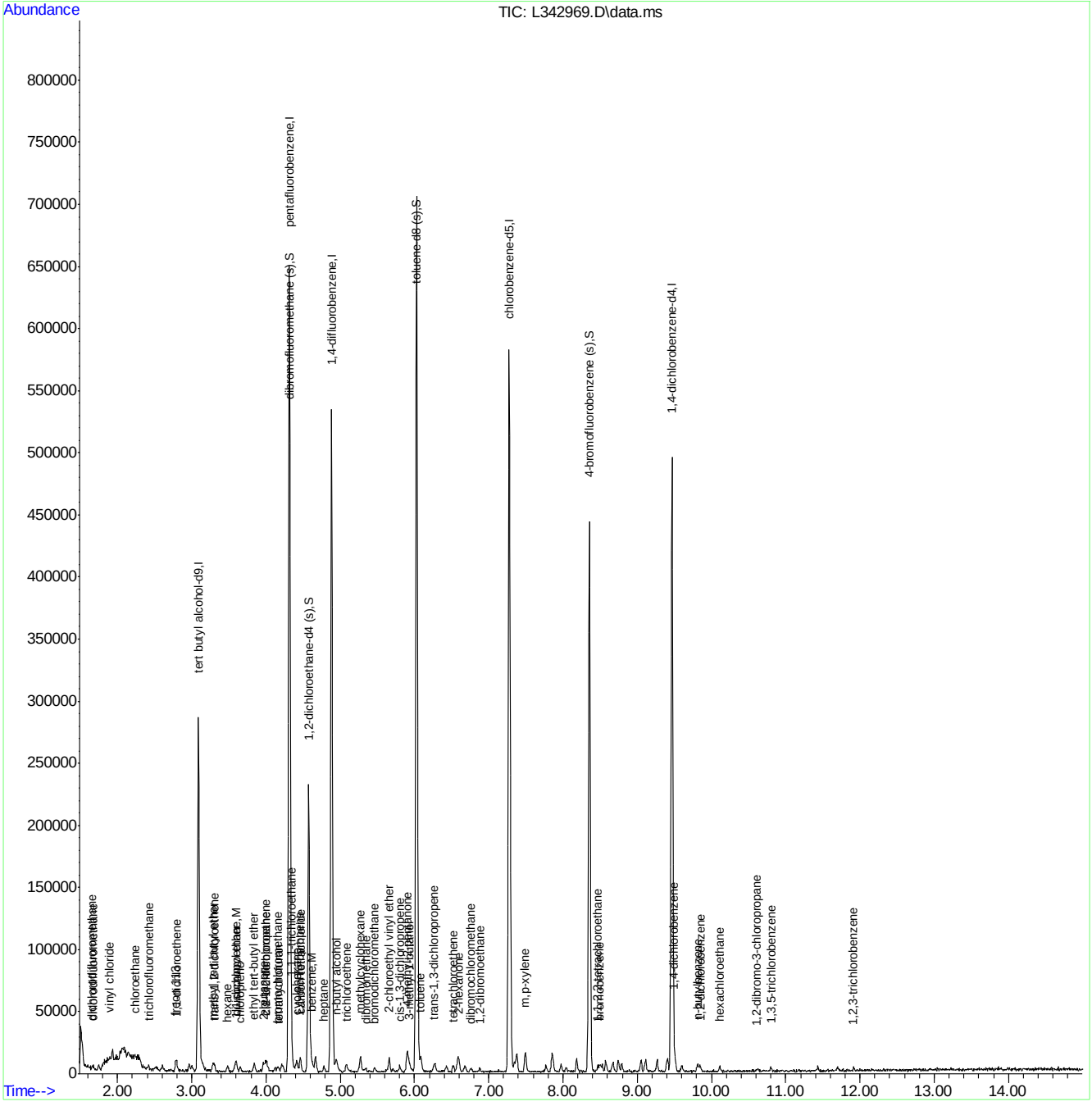
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 70) 4-methyl-2-pentanone | 5.906 | 58 | 3657 | 2.38 | ug/L | # | 75 |
| 71) 3-methyl-1-butanol | 5.932 | 70 | 2244 | 12.66 | ug/L | # | 79 |
| 74) toluene | 6.082 | 92 | 3549 | 0.63 | ug/L | | 83 |
| 75) trans-1,3-dichloropropene | 6.262 | 75 | 2522 | 0.62 | ug/L | | 90 |
| 78) 2-hexanone | 6.593 | 58 | 3941 | 2.65 | ug/L | | 90 |
| 79) tetrachloroethene | 6.525 | 166 | 1292 | 0.56 | ug/L | | 86 |
| 82) dibromochloromethane | 6.756 | 129 | 1751 | 0.69 | ug/L | | 81 |
| 83) 1,2-dibromoethane | 6.885 | 107 | 1704 | 0.65 | ug/L | # | 67 |
| 88) m,p-xylene | 7.491 | 106 | 5283 | 1.33 | ug/L | | 97 |
| 97) bromobenzene | 8.495 | 156 | 1426 | 0.59 | ug/L | | 77 |
| 98) 1,1,2,2-tetrachloroethane | 8.470 | 83 | 2462 | 0.66 | ug/L | | 94 |
| 110) 1,4-dichlorobenzene | 9.497 | 146 | 2437 | 0.59 | ug/L | | 73 |
| 112) 1,2-dichlorobenzene | 9.846 | 146 | 2458 | 0.61 | ug/L | | 90 |
| 113) n-butylbenzene | 9.808 | 92 | 2176 | 0.52 | ug/L | | 96 |
| 114) 1,2-dibromo-3-chloropr... | 10.607 | 157 | 404 | 0.40 | ug/L | # | 4 |
| 115) 1,3,5-trichlorobenzene | 10.809 | 180 | 1248 | 0.43 | ug/L | | 79 |
| 119) 1,2,3-trichlorobenzene | 11.903 | 180 | 959 | 0.45 | ug/L | # | 38 |
| 120) hexachloroethane | 10.116 | 119 | 779 | 0.47 | ug/L | | 86 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342969.D
Acq On : 15 Jun 2022 4:48 pm
Operator : BridgetK
Sample : ic10355-0.5
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 15:10:57 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342970.D
Acq On : 15 Jun 2022 5:11 pm
Operator : BridgetK
Sample : ic10355-1
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 16 15:12:10 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.089 | 65 | 277339 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.308 | 168 | 259441 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.879 | 114 | 373581 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.273 | 117 | 325769 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.465 | 152 | 125399 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.318 | 113 | 115612 | 48.62 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.24% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.571 | 65 | 139827 | 52.46 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 104.92% | | | | |
| 73) toluene-d8 (s) | 6.025 | 98 | 465217 | 54.42 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 108.84% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 163636 | 50.57 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.14% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.316 | 88 | 1675 | 25.21 | ug/L | | 70 |
| 3) ethanol | 2.508 | 45 | 8093 | 126.43 | ug/L | | 88 |
| 4) tertiary butyl alcohol | 3.150 | 59 | 4737 | 6.12 | ug/L | | 84 |
| 6) chlorodifluoromethane | 1.677 | 51 | 2698 | 0.95 | ug/L | # | 78 |
| 7) dichlorodifluoromethane | 1.657 | 85 | 5197 | 1.23 | ug/L | | 91 |
| 8) chloromethane | 1.815 | 50 | 3446 | 1.23 | ug/L | | 96 |
| 9) vinyl chloride | 1.901 | 62 | 4160 | 1.23 | ug/L | | 77 |
| 12) chloroethane | 2.232 | 64 | 2854 | 1.48 | ug/L | | 83 |
| 13) trichlorofluoromethane | 2.421 | 101 | 5933 | 1.23 | ug/L | | 76 |
| 14) ethyl ether | 2.604 | 74 | 1310 | 0.72 | ug/L | # | 73 |
| 16) freon 113 | 2.781 | 151 | 1785 | 0.90 | ug/L | # | 75 |
| 17) 1,1-dichloroethene | 2.790 | 96 | 2108 | 0.88 | ug/L | # | 72 |
| 18) acetone | 2.803 | 58 | 1492 | 3.57 | ug/L | # | 53 |
| 19) acetonitrile | 2.992 | 40 | 3136 | 11.63 | ug/L | # | 68 |
| 22) carbon disulfide | 2.963 | 76 | 7566 | 1.07 | ug/L | | 93 |
| 23) methylene chloride | 3.114 | 84 | 2740 | 1.04 | ug/L | | 87 |
| 25) methyl tert butyl ether | 3.284 | 73 | 8342 | 0.91 | ug/L | | 93 |
| 26) trans-1,2-dichloroethene | 3.300 | 96 | 2183 | 0.86 | ug/L | | 88 |
| 27) hexane | 3.480 | 57 | 3822 | 1.06 | ug/L | | 87 |
| 28) di-isopropyl ether | 3.592 | 45 | 6509 | 0.88 | ug/L | | 95 |
| 29) ethyl tert-butyl ether | 3.839 | 59 | 7465 | 0.86 | ug/L | | 98 |
| 30) 2-butanone | 3.958 | 72 | 2182 | 3.43 | ug/L | # | 85 |
| 31) 1,1-dichloroethane | 3.596 | 63 | 4047 | 0.89 | ug/L | | 76 |
| 32) chloroprene | 3.650 | 53 | 3396 | 0.95 | ug/L | | 85 |
| 33) acrylonitrile | 3.275 | 53 | 1686 | 1.13 | ug/L | # | 70 |
| 36) 2,2-dichloropropane | 4.000 | 77 | 4645 | 1.10 | ug/L | | 96 |
| 37) cis-1,2-dichloroethene | 3.990 | 96 | 2595 | 0.92 | ug/L | | 87 |
| 38) propionitrile | 4.010 | 54 | 5926 | 9.85 | ug/L | | 82 |
| 40) bromochloromethane | 4.164 | 128 | 1191 | 0.92 | ug/L | # | 70 |
| 41) tetrahydrofuran | 4.164 | 72 | 692 | 0.94 | ug/L | # | 68 |
| 42) chloroform | 4.208 | 83 | 5525 | 1.12 | ug/L | | 85 |
| 44) methacrylonitrile | 4.115 | 67 | 1702 | 0.98 | ug/L | # | 51 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342970.D
Acq On : 15 Jun 2022 5:11 pm
Operator : BridgetK
Sample : ic10355-1
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 16 15:12:10 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 45) 1,1,1-trichloroethane | 4.350 | 97 | 4043 | 0.91 | ug/L | # | 70 |
| 46) cyclohexane | 4.407 | 84 | 5185 | 1.34 | ug/L | # | 78 |
| 47) 1,1-dichloropropene | 4.456 | 75 | 3495 | 0.98 | ug/L | | 85 |
| 48) carbon tetrachloride | 4.459 | 117 | 3338 | 0.96 | ug/L | | 97 |
| 53) tert-amyl methyl ether | 4.664 | 73 | 7913 | 0.99 | ug/L | | 96 |
| 54) 2,2,4-trimethylpentane | 4.667 | 57 | 6553 | 1.03 | ug/L | | 86 |
| 55) n-butyl alcohol | 4.937 | 56 | 10235 | 59.40 | ug/L | | 97 |
| 56) benzene | 4.606 | 78 | 9329 | 1.01 | ug/L | | 83 |
| 57) heptane | 4.773 | 57 | 1523 | 1.05 | ug/L | # | 70 |
| 58) 1,2-dichloroethane | 4.632 | 62 | 3780 | 1.05 | ug/L | | 73 |
| 59) trichloroethene | 5.075 | 95 | 2318 | 0.86 | ug/L | # | 78 |
| 60) ethyl acrylate | 5.091 | 55 | 4393 | 0.99 | ug/L | | 93 |
| 62) 2-chloroethyl vinyl ether | 5.656 | 63 | 6921 | 4.37 | ug/L | | 93 |
| 64) 1,2-dichloropropane | 5.271 | 63 | 2353 | 1.00 | ug/L | | 89 |
| 65) methylcyclohexane | 5.258 | 83 | 4401 | 1.01 | ug/L | | 80 |
| 66) dibromomethane | 5.344 | 93 | 1569 | 0.93 | ug/L | # | 58 |
| 67) bromodichloromethane | 5.466 | 83 | 3604 | 0.94 | ug/L | | 73 |
| 68) cis-1,3-dichloropropene | 5.800 | 75 | 3713 | 0.81 | ug/L | | 89 |
| 70) 4-methyl-2-pentanone | 5.900 | 58 | 6690 | 4.30 | ug/L | # | 82 |
| 71) 3-methyl-1-butanol | 5.916 | 70 | 4744 | 26.39 | ug/L | # | 84 |
| 74) toluene | 6.086 | 92 | 6012 | 1.04 | ug/L | | 81 |
| 75) trans-1,3-dichloropropene | 6.253 | 75 | 3535 | 0.86 | ug/L | | 91 |
| 76) ethyl methacrylate | 6.269 | 69 | 4618 | 1.15 | ug/L | | 88 |
| 77) 1,1,2-trichloroethane | 6.432 | 83 | 2027 | 0.99 | ug/L | # | 49 |
| 78) 2-hexanone | 6.586 | 58 | 7288 | 4.83 | ug/L | | 81 |
| 79) tetrachloroethene | 6.506 | 166 | 2125 | 0.91 | ug/L | # | 39 |
| 80) 1,3-dichloropropane | 6.573 | 76 | 4034 | 1.03 | ug/L | | 91 |
| 82) dibromochloromethane | 6.756 | 129 | 2691 | 1.04 | ug/L | | 87 |
| 83) 1,2-dibromoethane | 6.872 | 107 | 2581 | 0.97 | ug/L | | 86 |
| 84) n-butyl ether | 7.344 | 57 | 8639 | 0.97 | ug/L | | 92 |
| 85) chlorobenzene | 7.305 | 112 | 5484 | 0.88 | ug/L | | 88 |
| 86) 1,1,1,2-tetrachloroethane | 7.376 | 131 | 2167 | 1.03 | ug/L | # | 70 |
| 87) ethylbenzene | 7.376 | 91 | 10425 | 1.03 | ug/L | | 93 |
| 88) m,p-xylene | 7.488 | 106 | 7861 | 1.96 | ug/L | | 96 |
| 89) o-xylene | 7.851 | 106 | 3723 | 0.88 | ug/L | | 88 |
| 90) butyl acrylate | 7.767 | 55 | 5868 | 1.11 | ug/L | | 95 |
| 91) styrene | 7.860 | 104 | 6299 | 0.94 | ug/L | | 86 |
| 92) bromoform | 8.034 | 173 | 2119 | 1.11 | ug/L | | 84 |
| 93) isopropylbenzene | 8.178 | 105 | 9671 | 0.92 | ug/L | | 95 |
| 97) bromobenzene | 8.502 | 156 | 2582 | 1.07 | ug/L | # | 58 |
| 98) 1,1,2,2-tetrachloroethane | 8.467 | 83 | 4609 | 1.22 | ug/L | | 81 |
| 100) 1,2,3-trichloropropane | 8.531 | 110 | 1210 | 1.08 | ug/L | | 70 |
| 101) n-propylbenzene | 8.579 | 91 | 11535 | 1.00 | ug/L | | 92 |
| 102) 2-chlorotoluene | 8.669 | 126 | 2374 | 1.03 | ug/L | | 99 |
| 103) 4-chlorotoluene | 8.794 | 126 | 2293 | 1.02 | ug/L | # | 57 |
| 104) 1,3,5-trimethylbenzene | 8.746 | 105 | 8401 | 1.00 | ug/L | | 94 |
| 105) tert-butylbenzene | 9.051 | 119 | 6221 | 0.86 | ug/L | | 87 |
| 106) 1,2,4-trimethylbenzene | 9.112 | 105 | 8403 | 0.98 | ug/L | | 98 |
| 107) sec-butylbenzene | 9.266 | 105 | 9540 | 0.93 | ug/L | | 94 |
| 108) 1,3-dichlorobenzene | 9.397 | 146 | 3912 | 0.90 | ug/L | | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342970.D
Acq On : 15 Jun 2022 5:11 pm
Operator : BridgetK
Sample : ic10355-1
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 16 15:12:10 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 109) p-isopropyltoluene | 9.417 | 119 | 7527 | 0.93 | ug/L | | 80 |
| 110) 1,4-dichlorobenzene | 9.487 | 146 | 3638 | 0.87 | ug/L | | 92 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 8124 | 0.99 | ug/L | | 85 |
| 112) 1,2-dichlorobenzene | 9.840 | 146 | 3999 | 0.99 | ug/L | | 78 |
| 113) n-butylbenzene | 9.808 | 92 | 3247 | 0.76 | ug/L | # | 78 |
| 114) 1,2-dibromo-3-chloropr... | 10.613 | 157 | 910 | 0.91 | ug/L | | 87 |
| 115) 1,3,5-trichlorobenzene | 10.812 | 180 | 2174 | 0.74 | ug/L | # | 63 |
| 116) 1,2,4-trichlorobenzene | 11.435 | 180 | 1700 | 0.69 | ug/L | # | 61 |
| 119) 1,2,3-trichlorobenzene | 11.913 | 180 | 1558 | 0.73 | ug/L | | 97 |
| 120) hexachloroethane | 10.116 | 119 | 1579 | 0.94 | ug/L | # | 63 |

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

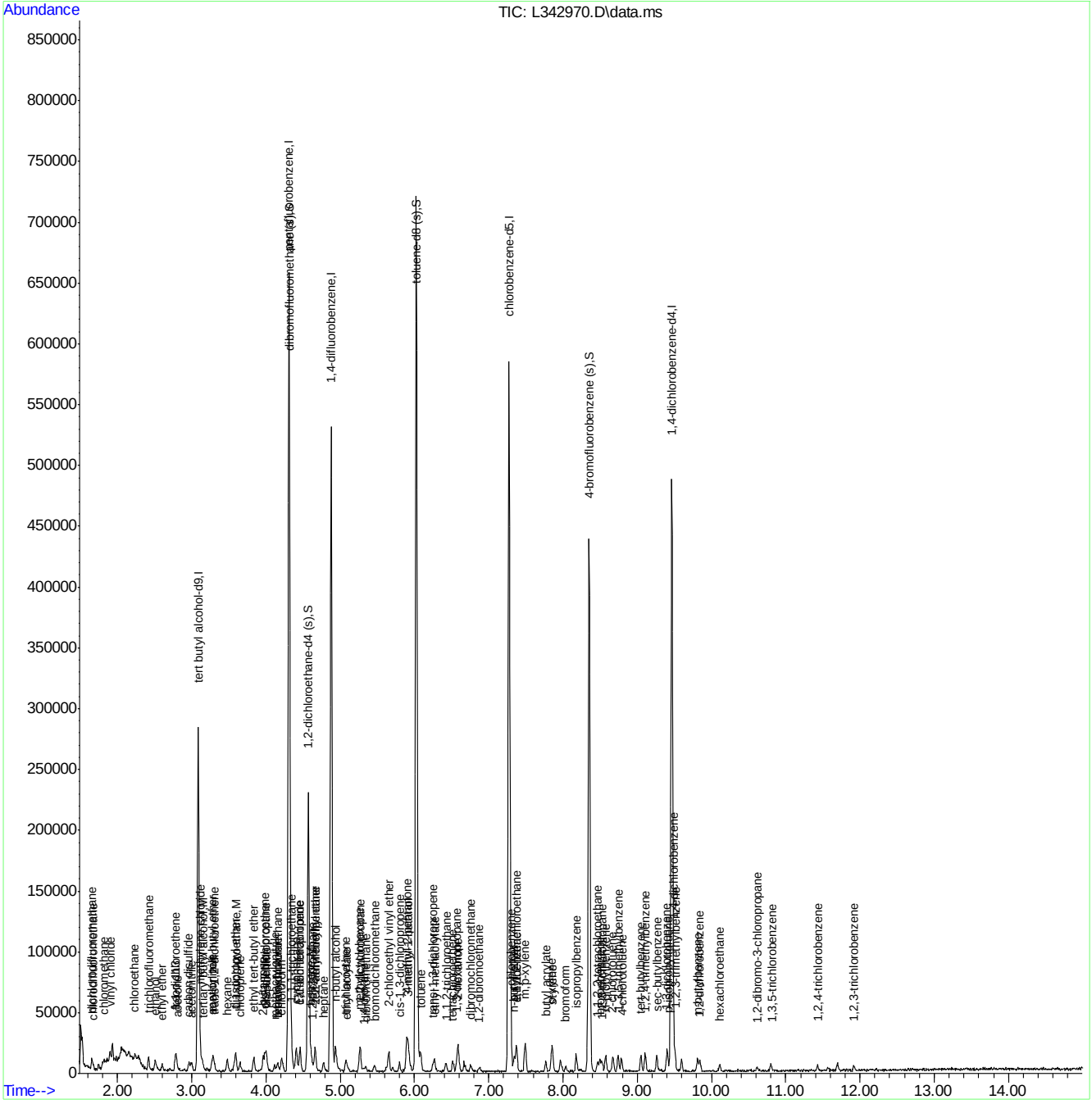
7.6.60

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342970.D
Acq On : 15 Jun 2022 5:11 pm
Operator : BridgetK
Sample : ic10355-1
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 16 15:12:10 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342971.D
Acq On : 15 Jun 2022 5:35 pm
Operator : BridgetK
Sample : ic10355-2
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 16 15:15:04 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 09:03:24 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.092 | 65 | 284291 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.314 | 168 | 249516 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.882 | 114 | 365208 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 320476 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 127027 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.324 | 113 | 114506 | 50.81 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.62% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.577 | 65 | 138702 | 52.04 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 104.08% | | | | |
| 73) toluene-d8 (s) | 6.028 | 98 | 459371 | 52.08 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 104.16% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 163387 | 49.37 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.74% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.319 | 88 | 4214 | 56.85 | ug/L | | 100 |
| 3) ethanol | 2.511 | 45 | 16203 | 228.31 | ug/L | | 82 |
| 4) tertiary butyl alcohol | 3.153 | 59 | 9997 | 11.47 | ug/L | | 98 |
| 6) chlorodifluoromethane | 1.677 | 51 | 6118 | 2.19 | ug/L | # | 90 |
| 7) dichlorodifluoromethane | 1.654 | 85 | 7119 | 1.75 | ug/L | | 95 |
| 8) chloromethane | 1.821 | 50 | 5201 | 1.91 | ug/L | | 89 |
| 9) vinyl chloride | 1.901 | 62 | 6261 | 1.86 | ug/L | | 83 |
| 11) bromomethane | 2.158 | 96 | 3420 | 2.45 | ug/L | | 90 |
| 12) chloroethane | 2.238 | 64 | 3941 | 2.01 | ug/L | | 74 |
| 13) trichlorofluoromethane | 2.421 | 101 | 9500 | 2.02 | ug/L | | 97 |
| 14) ethyl ether | 2.610 | 74 | 3333 | 2.03 | ug/L | | 90 |
| 15) acrolein | 2.710 | 56 | 1454 | 2.44 | ug/L | | 67 |
| 16) freon 113 | 2.784 | 151 | 3841 | 2.08 | ug/L | | 96 |
| 17) 1,1-dichloroethene | 2.790 | 96 | 5091 | 2.21 | ug/L | | 86 |
| 18) acetone | 2.809 | 58 | 3801 | 9.39 | ug/L | # | 53 |
| 19) acetonitrile | 2.995 | 40 | 5557 | 21.19 | ug/L | | 90 |
| 20) iodomethane | 2.906 | 142 | 2144 | 2.55 | ug/L | | 85 |
| 22) carbon disulfide | 2.967 | 76 | 16970 | 2.39 | ug/L | | 95 |
| 23) methylene chloride | 3.124 | 84 | 6514 | 2.43 | ug/L | | 91 |
| 24) methyl acetate | 3.012 | 74 | 1677 | 2.06 | ug/L | # | 49 |
| 25) methyl tert butyl ether | 3.287 | 73 | 19415 | 2.23 | ug/L | | 95 |
| 26) trans-1,2-dichloroethene | 3.310 | 96 | 5803 | 2.33 | ug/L | | 87 |
| 27) hexane | 3.486 | 57 | 7324 | 2.09 | ug/L | | 93 |
| 28) di-isopropyl ether | 3.596 | 45 | 15730 | 2.22 | ug/L | | 89 |
| 29) ethyl tert-butyl ether | 3.839 | 59 | 18788 | 2.27 | ug/L | | 95 |
| 30) 2-butanone | 3.961 | 72 | 5436 | 8.74 | ug/L | | 91 |
| 31) 1,1-dichloroethane | 3.605 | 63 | 10130 | 2.32 | ug/L | | 95 |
| 32) chloroprene | 3.656 | 53 | 7825 | 2.20 | ug/L | | 89 |
| 33) acrylonitrile | 3.278 | 53 | 2878 | 2.00 | ug/L | | 89 |
| 34) vinyl acetate | 3.573 | 86 | 1668 | 2.21 | ug/L | # | 91 |
| 35) ethyl acetate | 3.977 | 45 | 1510 | 2.39 | ug/L | # | 50 |
| 36) 2,2-dichloropropane | 4.003 | 77 | 10491 | 2.46 | ug/L | | 89 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342971.D
Acq On : 15 Jun 2022 5:35 pm
Operator : BridgetK
Sample : ic10355-2
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 16 15:15:04 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 09:03:24 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 37) cis-1,2-dichloroethene | 3.997 | 96 | 6565 | 2.33 | ug/L | | 81 |
| 38) propionitrile | 4.013 | 54 | 13726 | 23.10 | ug/L | | 91 |
| 39) methyl acrylate | 4.016 | 85 | 1719 | 2.35 | ug/L | # | 67 |
| 40) bromochloromethane | 4.160 | 128 | 2476 | 2.02 | ug/L | | 97 |
| 41) tetrahydrofuran | 4.183 | 72 | 1537 | 2.21 | ug/L | # | 52 |
| 42) chloroform | 4.212 | 83 | 11960 | 2.39 | ug/L | | 96 |
| 44) methacrylonitrile | 4.122 | 67 | 4178 | 2.40 | ug/L | # | 70 |
| 45) 1,1,1-trichloroethane | 4.353 | 97 | 9984 | 2.32 | ug/L | | 97 |
| 46) cyclohexane | 4.414 | 84 | 8055 | 2.04 | ug/L | | 89 |
| 47) 1,1-dichloropropene | 4.459 | 75 | 7604 | 2.22 | ug/L | | 86 |
| 48) carbon tetrachloride | 4.465 | 117 | 8277 | 2.32 | ug/L | # | 80 |
| 49) isopropyl acetate | 4.577 | 87 | 2190 | 2.46 | ug/L | # | 27 |
| 53) tert-amyl methyl ether | 4.671 | 73 | 19062 | 2.34 | ug/L | | 98 |
| 54) 2,2,4-trimethylpentane | 4.667 | 57 | 16041 | 2.48 | ug/L | | 91 |
| 55) n-butyl alcohol | 4.937 | 56 | 22094 | 122.03 | ug/L | | 96 |
| 56) benzene | 4.606 | 78 | 22120 | 2.33 | ug/L | | 98 |
| 57) heptane | 4.780 | 57 | 3063 | 2.05 | ug/L | | 87 |
| 58) 1,2-dichloroethane | 4.635 | 62 | 8207 | 2.29 | ug/L | | 88 |
| 59) trichloroethene | 5.078 | 95 | 6028 | 2.24 | ug/L | | 79 |
| 60) ethyl acrylate | 5.091 | 55 | 10760 | 2.41 | ug/L | | 91 |
| 62) 2-chloroethyl vinyl ether | 5.656 | 63 | 17659 | 11.34 | ug/L | | 89 |
| 63) methyl methacrylate | 5.271 | 100 | 2340 | 2.25 | ug/L | # | 81 |
| 64) 1,2-dichloropropane | 5.280 | 63 | 5290 | 2.26 | ug/L | | 88 |
| 65) methylcyclohexane | 5.267 | 83 | 9940 | 2.35 | ug/L | | 95 |
| 66) dibromomethane | 5.344 | 93 | 3847 | 2.22 | ug/L | | 95 |
| 67) bromodichloromethane | 5.463 | 83 | 9114 | 2.31 | ug/L | | 82 |
| 68) cis-1,3-dichloropropene | 5.800 | 75 | 9922 | 2.24 | ug/L | | 87 |
| 69) epichlorohydrin | 5.710 | 57 | 6052 | 11.88 | ug/L | | 86 |
| 70) 4-methyl-2-pentanone | 5.906 | 58 | 15875 | 9.73 | ug/L | | 96 |
| 71) 3-methyl-1-butanol | 5.922 | 70 | 9724 | 48.70 | ug/L | | 91 |
| 74) toluene | 6.089 | 92 | 13489 | 2.24 | ug/L | | 97 |
| 75) trans-1,3-dichloropropene | 6.256 | 75 | 9482 | 2.28 | ug/L | | 88 |
| 76) ethyl methacrylate | 6.275 | 69 | 10222 | 2.44 | ug/L | | 92 |
| 77) 1,1,2-trichloroethane | 6.429 | 83 | 5056 | 2.41 | ug/L | | 96 |
| 78) 2-hexanone | 6.589 | 58 | 16360 | 9.81 | ug/L | | 94 |
| 79) tetrachloroethene | 6.528 | 166 | 5898 | 2.45 | ug/L | | 84 |
| 80) 1,3-dichloropropane | 6.570 | 76 | 9743 | 2.39 | ug/L | | 83 |
| 82) dibromochloromethane | 6.760 | 129 | 6675 | 2.38 | ug/L | | 86 |
| 83) 1,2-dibromoethane | 6.875 | 107 | 6208 | 2.21 | ug/L | | 81 |
| 84) n-butyl ether | 7.344 | 57 | 21435 | 2.39 | ug/L | | 95 |
| 85) chlorobenzene | 7.299 | 112 | 13981 | 2.27 | ug/L | | 95 |
| 86) 1,1,1,2-tetrachloroethane | 7.376 | 131 | 5439 | 2.44 | ug/L | | 90 |
| 87) ethylbenzene | 7.376 | 91 | 26472 | 2.51 | ug/L | | 97 |
| 88) m,p-xylene | 7.494 | 106 | 19628 | 4.63 | ug/L | | 94 |
| 89) o-xylene | 7.854 | 106 | 10251 | 2.42 | ug/L | | 94 |
| 90) butyl acrylate | 7.767 | 55 | 12608 | 2.33 | ug/L | | 95 |
| 91) styrene | 7.860 | 104 | 16596 | 2.42 | ug/L | | 89 |
| 92) bromoform | 8.046 | 173 | 4546 | 2.31 | ug/L | | 75 |
| 93) isopropylbenzene | 8.181 | 105 | 26291 | 2.47 | ug/L | | 91 |
| 97) bromobenzene | 8.505 | 156 | 5804 | 2.25 | ug/L | # | 76 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342971.D
Acq On : 15 Jun 2022 5:35 pm
Operator : BridgetK
Sample : ic10355-2
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 16 15:15:04 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 09:03:24 2022
Response via : Initial Calibration

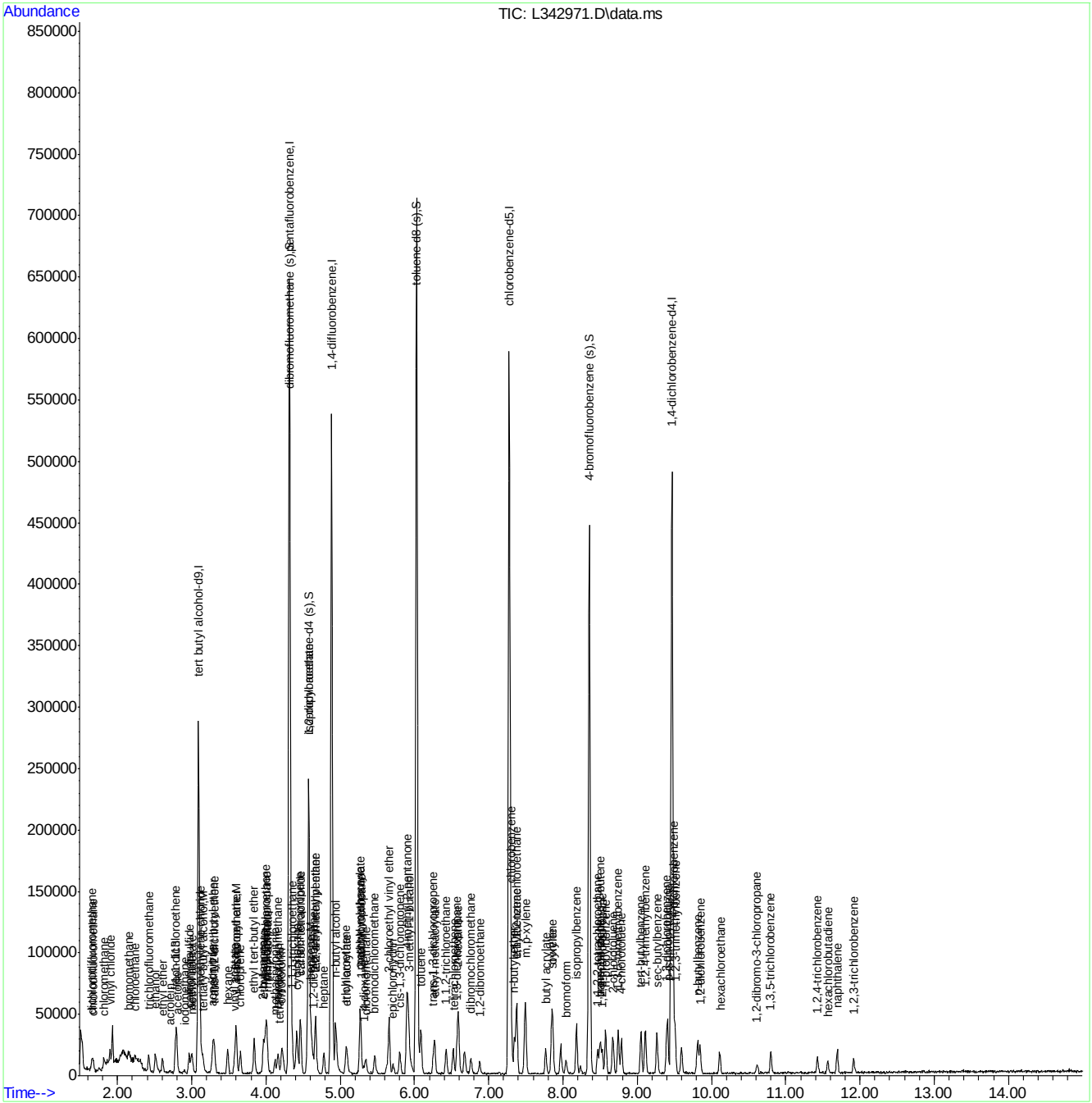
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 98) 1,1,2,2-tetrachloroethane | 8.470 | 83 | 9915 | 2.33 | ug/L | | 98 |
| 99) trans-1,4-dichloro-2-b... | 8.505 | 53 | 1135 | 1.88 | ug/L | # | 59 |
| 100) 1,2,3-trichloropropane | 8.524 | 110 | 2973 | 2.43 | ug/L | | 85 |
| 101) n-propylbenzene | 8.579 | 91 | 28972 | 2.38 | ug/L | | 93 |
| 102) 2-chlorotoluene | 8.672 | 126 | 5387 | 2.25 | ug/L | # | 82 |
| 103) 4-chlorotoluene | 8.788 | 126 | 5626 | 2.34 | ug/L | # | 86 |
| 104) 1,3,5-trimethylbenzene | 8.739 | 105 | 20803 | 2.38 | ug/L | | 92 |
| 105) tert-butylbenzene | 9.051 | 119 | 17612 | 2.41 | ug/L | | 91 |
| 106) 1,2,4-trimethylbenzene | 9.112 | 105 | 22064 | 2.47 | ug/L | | 91 |
| 107) sec-butylbenzene | 9.266 | 105 | 24339 | 2.33 | ug/L | | 94 |
| 108) 1,3-dichlorobenzene | 9.397 | 146 | 9318 | 2.14 | ug/L | | 92 |
| 109) p-isopropyltoluene | 9.413 | 119 | 19275 | 2.34 | ug/L | | 98 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 9451 | 2.21 | ug/L | | 93 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 19602 | 2.31 | ug/L | | 99 |
| 112) 1,2-dichlorobenzene | 9.850 | 146 | 9891 | 2.31 | ug/L | | 80 |
| 113) n-butylbenzene | 9.811 | 92 | 8778 | 2.13 | ug/L | | 84 |
| 114) 1,2-dibromo-3-chloropr... | 10.610 | 157 | 2053 | 2.04 | ug/L | # | 74 |
| 115) 1,3,5-trichlorobenzene | 10.793 | 180 | 5764 | 2.09 | ug/L | | 88 |
| 116) 1,2,4-trichlorobenzene | 11.428 | 180 | 4387 | 1.96 | ug/L | | 93 |
| 117) hexachlorobutadiene | 11.566 | 225 | 2060 | 2.30 | ug/L | # | 76 |
| 118) naphthalene | 11.698 | 128 | 14875 | 1.97 | ug/L | | 98 |
| 119) 1,2,3-trichlorobenzene | 11.913 | 180 | 4236 | 2.09 | ug/L | | 94 |
| 120) hexachloroethane | 10.119 | 119 | 3883 | 2.27 | ug/L | | 75 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342971.D
Acq On : 15 Jun 2022 5:35 pm
Operator : BridgetK
Sample : ic10355-2
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 16 15:15:04 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 09:03:24 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342972.D
Acq On : 15 Jun 2022 5:58 pm
Operator : BridgetK
Sample : ic10355-4
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 16 15:15:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.092 | 65 | 266435 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.311 | 168 | 245625 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.879 | 114 | 359159 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 315874 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 122156 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.321 | 113 | 111169 | 49.38 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.76% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.574 | 65 | 136899 | 53.43 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 106.86% | | | | |
| 73) toluene-d8 (s) | 6.028 | 98 | 443001 | 53.44 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.88% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 162423 | 51.52 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.04% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.312 | 88 | 8566 | 134.18 | ug/L | | 99 |
| 3) ethanol | 2.514 | 45 | 31740 | 516.15 | ug/L | | 95 |
| 4) tertiary butyl alcohol | 3.146 | 59 | 20218 | 27.20 | ug/L | | 96 |
| 6) chlorodifluoromethane | 1.673 | 51 | 10962 | 4.07 | ug/L | # | 98 |
| 7) dichlorodifluoromethane | 1.657 | 85 | 14063 | 3.51 | ug/L | | 97 |
| 8) chloromethane | 1.821 | 50 | 10279 | 3.88 | ug/L | | 85 |
| 9) vinyl chloride | 1.901 | 62 | 11668 | 3.63 | ug/L | | 89 |
| 10) 1.3-butadiene | 1.933 | 54 | 15635 | 4.77 | ug/L | | 94 |
| 11) bromomethane | 2.158 | 96 | 5181 | 3.82 | ug/L | | 87 |
| 12) chloroethane | 2.238 | 64 | 6404 | 3.51 | ug/L | | 91 |
| 13) trichlorofluoromethane | 2.424 | 101 | 17834 | 3.89 | ug/L | | 94 |
| 14) ethyl ether | 2.607 | 74 | 6710 | 3.88 | ug/L | | 92 |
| 15) acrolein | 2.713 | 56 | 2155 | 3.73 | ug/L | | 87 |
| 16) freon 113 | 2.781 | 151 | 7517 | 4.02 | ug/L | | 86 |
| 17) 1,1-dichloroethene | 2.790 | 96 | 9106 | 4.00 | ug/L | | 95 |
| 18) acetone | 2.800 | 58 | 7341 | 18.53 | ug/L | | 98 |
| 19) acetonitrile | 2.992 | 40 | 9728 | 38.11 | ug/L | | 89 |
| 20) iodomethane | 2.906 | 142 | 4690 | 2.21 | ug/L | | 80 |
| 21) iso-butyl alcohol | 4.462 | 43 | 13588 | 58.96 | ug/L | | 97 |
| 22) carbon disulfide | 2.963 | 76 | 28854 | 4.32 | ug/L | | 99 |
| 23) methylene chloride | 3.121 | 84 | 11469 | 4.58 | ug/L | | 89 |
| 24) methyl acetate | 3.008 | 74 | 3757 | 4.76 | ug/L | # | 73 |
| 25) methyl tert butyl ether | 3.288 | 73 | 36554 | 4.21 | ug/L | | 95 |
| 26) trans-1,2-dichloroethene | 3.307 | 96 | 10212 | 4.23 | ug/L | | 94 |
| 27) hexane | 3.480 | 57 | 13576 | 3.97 | ug/L | | 86 |
| 28) di-isopropyl ether | 3.592 | 45 | 30681 | 4.40 | ug/L | | 95 |
| 29) ethyl tert-butyl ether | 3.840 | 59 | 34369 | 4.16 | ug/L | | 97 |
| 30) 2-butanone | 3.961 | 72 | 10989 | 18.24 | ug/L | | 93 |
| 31) 1,1-dichloroethane | 3.599 | 63 | 19080 | 4.42 | ug/L | | 95 |
| 32) chloroprene | 3.653 | 53 | 14044 | 4.13 | ug/L | | 91 |
| 33) acrylonitrile | 3.268 | 53 | 5396 | 3.81 | ug/L | | 80 |
| 34) vinyl acetate | 3.576 | 86 | 2482 | 3.14 | ug/L | # | 92 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342972.D
Acq On : 15 Jun 2022 5:58 pm
Operator : BridgetK
Sample : ic10355-4
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 16 15:15:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) ethyl acetate | 3.968 | 45 | 2708 | 4.70 | ug/L | | 83 |
| 36) 2,2-dichloropropane | 4.003 | 77 | 18182 | 4.57 | ug/L | | 96 |
| 37) cis-1,2-dichloroethene | 3.994 | 96 | 11412 | 4.26 | ug/L | | 98 |
| 38) propionitrile | 4.006 | 54 | 26804 | 47.07 | ug/L | | 84 |
| 39) methyl acrylate | 4.019 | 85 | 3333 | 4.87 | ug/L | # | 49 |
| 40) bromochloromethane | 4.160 | 128 | 5304 | 4.34 | ug/L | # | 77 |
| 41) tetrahydrofuran | 4.170 | 72 | 2829 | 4.06 | ug/L | # | 83 |
| 42) chloroform | 4.212 | 83 | 21338 | 4.55 | ug/L | | 98 |
| 44) methacrylonitrile | 4.115 | 67 | 7723 | 4.71 | ug/L | | 97 |
| 45) 1,1,1-trichloroethane | 4.350 | 97 | 16946 | 4.03 | ug/L | | 84 |
| 46) cyclohexane | 4.407 | 84 | 15314 | 4.17 | ug/L | # | 80 |
| 47) 1,1-dichloropropene | 4.459 | 75 | 12819 | 3.81 | ug/L | | 87 |
| 48) carbon tetrachloride | 4.465 | 117 | 15209 | 4.60 | ug/L | | 89 |
| 49) isopropyl acetate | 4.578 | 87 | 3701 | 4.44 | ug/L | # | 79 |
| 50) tert amyl alcohol | 4.549 | 55 | 7212 | 30.70 | ug/L | | 96 |
| 53) tert-amyl methyl ether | 4.667 | 73 | 37339 | 4.88 | ug/L | | 94 |
| 54) 2,2,4-trimethylpentane | 4.667 | 57 | 26526 | 4.34 | ug/L | | 94 |
| 55) n-butyl alcohol | 4.934 | 56 | 43558 | 262.94 | ug/L | | 95 |
| 56) benzene | 4.606 | 78 | 40650 | 4.57 | ug/L | | 96 |
| 57) heptane | 4.780 | 57 | 5554 | 4.00 | ug/L | | 93 |
| 58) 1,2-dichloroethane | 4.632 | 62 | 15638 | 4.51 | ug/L | | 99 |
| 59) trichloroethene | 5.081 | 95 | 10690 | 4.13 | ug/L | | 78 |
| 60) ethyl acrylate | 5.094 | 55 | 20359 | 4.77 | ug/L | | 98 |
| 61) 2-nitropropane | 5.630 | 41 | 6581 | 4.77 | ug/L | | 88 |
| 62) 2-chloroethyl vinyl ether | 5.653 | 63 | 34303 | 22.55 | ug/L | | 96 |
| 63) methyl methacrylate | 5.277 | 100 | 4808 | 4.79 | ug/L | # | 62 |
| 64) 1,2-dichloropropane | 5.277 | 63 | 10071 | 4.45 | ug/L | | 92 |
| 65) methylcyclohexane | 5.264 | 83 | 17300 | 4.15 | ug/L | | 93 |
| 66) dibromomethane | 5.344 | 93 | 7876 | 4.87 | ug/L | | 88 |
| 67) bromodichloromethane | 5.466 | 83 | 16853 | 4.57 | ug/L | | 94 |
| 68) cis-1,3-dichloropropene | 5.800 | 75 | 19287 | 4.38 | ug/L | | 92 |
| 69) epichlorohydrin | 5.707 | 57 | 11669 | 25.20 | ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 5.900 | 58 | 30616 | 20.47 | ug/L | | 95 |
| 71) 3-methyl-1-butanol | 5.919 | 70 | 18846 | 109.03 | ug/L | # | 85 |
| 74) toluene | 6.086 | 92 | 25363 | 4.54 | ug/L | | 96 |
| 75) trans-1,3-dichloropropene | 6.256 | 75 | 18400 | 4.61 | ug/L | | 98 |
| 76) ethyl methacrylate | 6.272 | 69 | 18100 | 4.66 | ug/L | | 98 |
| 77) 1,1,2-trichloroethane | 6.426 | 83 | 9185 | 4.62 | ug/L | | 94 |
| 78) 2-hexanone | 6.590 | 58 | 32248 | 22.06 | ug/L | | 89 |
| 79) tetrachloroethene | 6.516 | 166 | 10334 | 4.58 | ug/L | | 96 |
| 80) 1,3-dichloropropane | 6.570 | 76 | 18674 | 4.90 | ug/L | | 98 |
| 81) butyl acetate | 6.670 | 56 | 11166 | 5.46 | ug/L | | 88 |
| 82) dibromochloromethane | 6.756 | 129 | 12569 | 5.01 | ug/L | | 85 |
| 83) 1,2-dibromoethane | 6.878 | 107 | 12901 | 4.99 | ug/L | | 99 |
| 84) n-butyl ether | 7.340 | 57 | 40720 | 4.74 | ug/L | | 98 |
| 85) chlorobenzene | 7.305 | 112 | 26778 | 4.45 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 7.369 | 131 | 10600 | 5.18 | ug/L | | 86 |
| 87) ethylbenzene | 7.376 | 91 | 47879 | 4.90 | ug/L | | 98 |
| 88) m,p-xylene | 7.491 | 106 | 36887 | 9.47 | ug/L | | 98 |
| 89) o-xylene | 7.844 | 106 | 18526 | 4.52 | ug/L | | 91 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342972.D
Acq On : 15 Jun 2022 5:58 pm
Operator : BridgetK
Sample : ic10355-4
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 16 15:15:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

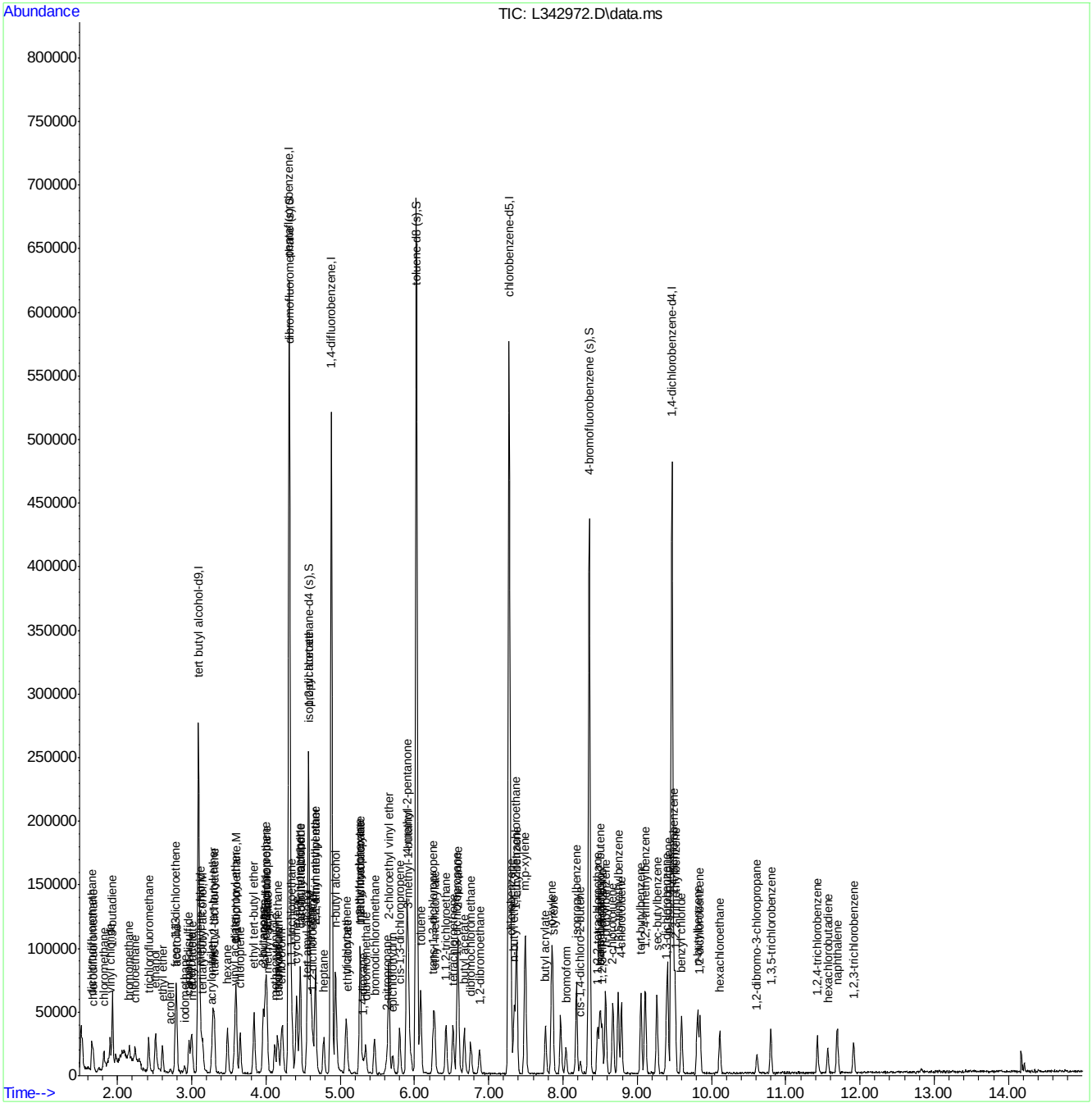
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 90) butyl acrylate | 7.764 | 55 | 24700 | 4.83 | ug/L | | 96 |
| 91) styrene | 7.867 | 104 | 31133 | 4.77 | ug/L | | 96 |
| 92) bromoform | 8.043 | 173 | 8900 | 4.81 | ug/L | | 99 |
| 93) isopropylbenzene | 8.181 | 105 | 47667 | 4.66 | ug/L | | 93 |
| 94) cis-1,4-dichloro-2-butene | 8.229 | 88 | 3032 | 3.86 | ug/L | # | 84 |
| 97) bromobenzene | 8.499 | 156 | 10837 | 4.60 | ug/L | | 89 |
| 98) 1,1,2,2-tetrachloroethane | 8.470 | 83 | 18694 | 5.09 | ug/L | | 91 |
| 99) trans-1,4-dichloro-2-b... | 8.502 | 53 | 2338 | 4.03 | ug/L | # | 81 |
| 100) 1,2,3-trichloropropane | 8.531 | 110 | 5645 | 5.17 | ug/L | | 68 |
| 101) n-propylbenzene | 8.576 | 91 | 53660 | 4.75 | ug/L | | 98 |
| 102) 2-chlorotoluene | 8.669 | 126 | 10168 | 4.55 | ug/L | | 93 |
| 103) 4-chlorotoluene | 8.788 | 126 | 10314 | 4.72 | ug/L | | 93 |
| 104) 1,3,5-trimethylbenzene | 8.749 | 105 | 37180 | 4.55 | ug/L | | 95 |
| 105) tert-butylbenzene | 9.048 | 119 | 30984 | 4.41 | ug/L | | 91 |
| 106) 1,2,4-trimethylbenzene | 9.109 | 105 | 38948 | 4.67 | ug/L | | 96 |
| 107) sec-butylbenzene | 9.266 | 105 | 44588 | 4.48 | ug/L | | 97 |
| 108) 1,3-dichlorobenzene | 9.391 | 146 | 19043 | 4.50 | ug/L | | 99 |
| 109) p-isopropyltoluene | 9.413 | 119 | 35418 | 4.51 | ug/L | | 98 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 18300 | 4.48 | ug/L | | 92 |
| 111) 1,2,3-trimethylbenzene | 9.516 | 105 | 37811 | 4.74 | ug/L | | 86 |
| 112) 1,2-dichlorobenzene | 9.843 | 146 | 17857 | 4.52 | ug/L | | 93 |
| 113) n-butylbenzene | 9.811 | 92 | 16580 | 4.01 | ug/L | | 94 |
| 114) 1,2-dibromo-3-chloropr... | 10.610 | 157 | 4535 | 4.63 | ug/L | | 85 |
| 115) 1,3,5-trichlorobenzene | 10.800 | 180 | 11434 | 3.99 | ug/L | | 93 |
| 116) 1,2,4-trichlorobenzene | 11.425 | 180 | 8340 | 3.45 | ug/L | | 96 |
| 117) hexachlorobutadiene | 11.570 | 225 | 3663 | 4.10 | ug/L | | 71 |
| 118) naphthalene | 11.698 | 128 | 29489 | 3.87 | ug/L | | 96 |
| 119) 1,2,3-trichlorobenzene | 11.916 | 180 | 7809 | 3.74 | ug/L | | 77 |
| 120) hexachloroethane | 10.116 | 119 | 6392 | 3.91 | ug/L | | 89 |
| 121) benzyl chloride | 9.596 | 91 | 33999 | 4.81 | ug/L | | 94 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342972.D
Acq On : 15 Jun 2022 5:58 pm
Operator : BridgetK
Sample : ic10355-4
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 16 15:15:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342973.D
Acq On : 15 Jun 2022 6:22 pm
Operator : BridgetK
Sample : ic10355-8
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 16 08:28:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.095 | 65 | 268003 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.314 | 168 | 241805 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.886 | 114 | 362388 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 316508 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.465 | 152 | 124571 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.324 | 113 | 109709 | 49.51 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.02% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.578 | 65 | 138961 | 53.75 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 107.50% | | | | |
| 73) toluene-d8 (s) | 6.031 | 98 | 439836 | 52.96 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 105.92% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 159258 | 49.54 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.08% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.316 | 88 | 13510 | 210.39 | ug/L | | 94 |
| 3) ethanol | 2.511 | 45 | 50446 | 815.54 | ug/L | | 88 |
| 4) tertiary butyl alcohol | 3.150 | 59 | 29869 | 39.95 | ug/L | | 95 |
| 6) chlorodifluoromethane | 1.670 | 51 | 20175 | 7.62 | ug/L | # | 95 |
| 7) dichlorodifluoromethane | 1.657 | 85 | 27799 | 7.04 | ug/L | | 97 |
| 8) chloromethane | 1.821 | 50 | 19640 | 7.54 | ug/L | | 89 |
| 9) vinyl chloride | 1.901 | 62 | 23738 | 7.51 | ug/L | | 99 |
| 10) 1.3-butadiene | 1.933 | 54 | 27528 | 8.54 | ug/L | | 98 |
| 11) bromomethane | 2.155 | 96 | 10748 | 8.05 | ug/L | | 85 |
| 12) chloroethane | 2.238 | 64 | 13682 | 7.61 | ug/L | | 94 |
| 13) trichlorofluoromethane | 2.424 | 101 | 35045 | 7.77 | ug/L | | 99 |
| 14) ethyl ether | 2.607 | 74 | 13343 | 7.84 | ug/L | | 89 |
| 15) acrolein | 2.713 | 56 | 4183 | 7.36 | ug/L | | 87 |
| 16) freon 113 | 2.781 | 151 | 13895 | 7.55 | ug/L | # | 80 |
| 17) 1,1-dichloroethene | 2.790 | 96 | 17549 | 7.82 | ug/L | | 95 |
| 18) acetone | 2.800 | 58 | 12426 | 31.87 | ug/L | # | 71 |
| 19) acetonitrile | 2.996 | 40 | 20134 | 80.12 | ug/L | | 97 |
| 20) iodomethane | 2.906 | 142 | 10430 | 4.99 | ug/L | | 92 |
| 21) iso-butyl alcohol | 4.465 | 43 | 20606 | 90.82 | ug/L | | 93 |
| 22) carbon disulfide | 2.967 | 76 | 54317 | 8.26 | ug/L | | 96 |
| 23) methylene chloride | 3.121 | 84 | 20763 | 8.42 | ug/L | | 85 |
| 24) methyl acetate | 3.012 | 74 | 5952 | 7.67 | ug/L | # | 73 |
| 25) methyl tert butyl ether | 3.291 | 73 | 67918 | 7.95 | ug/L | | 96 |
| 26) trans-1,2-dichloroethene | 3.307 | 96 | 19206 | 8.09 | ug/L | | 92 |
| 27) hexane | 3.486 | 57 | 26201 | 7.79 | ug/L | | 95 |
| 28) di-isopropyl ether | 3.599 | 45 | 55048 | 8.02 | ug/L | | 87 |
| 29) ethyl tert-butyl ether | 3.843 | 59 | 65642 | 8.08 | ug/L | | 98 |
| 30) 2-butanone | 3.968 | 72 | 18742 | 31.59 | ug/L | # | 80 |
| 31) 1,1-dichloroethane | 3.605 | 63 | 33501 | 7.89 | ug/L | | 96 |
| 32) chloroprene | 3.660 | 53 | 27751 | 8.29 | ug/L | | 94 |
| 33) acrylonitrile | 3.268 | 53 | 10257 | 7.35 | ug/L | | 97 |
| 34) vinyl acetate | 3.576 | 86 | 5961 | 7.67 | ug/L | # | 71 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342973.D
Acq On : 15 Jun 2022 6:22 pm
Operator : BridgetK
Sample : ic10355-8
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 16 08:28:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) ethyl acetate | 3.971 | 45 | 5042 | 8.90 | ug/L | | 97 |
| 36) 2,2-dichloropropane | 4.003 | 77 | 33002 | 8.42 | ug/L | | 98 |
| 37) cis-1,2-dichloroethene | 3.997 | 96 | 21757 | 8.25 | ug/L | | 96 |
| 38) propionitrile | 4.010 | 54 | 45467 | 81.11 | ug/L | | 79 |
| 39) methyl acrylate | 4.022 | 85 | 5512 | 8.18 | ug/L | # | 70 |
| 40) bromochloromethane | 4.160 | 128 | 9760 | 8.11 | ug/L | | 91 |
| 41) tetrahydrofuran | 4.176 | 72 | 5557 | 8.11 | ug/L | | 87 |
| 42) chloroform | 4.212 | 83 | 40399 | 8.76 | ug/L | | 97 |
| 44) methacrylonitrile | 4.119 | 67 | 12910 | 8.00 | ug/L | | 87 |
| 45) 1,1,1-trichloroethane | 4.353 | 97 | 32572 | 7.86 | ug/L | | 91 |
| 46) cyclohexane | 4.414 | 84 | 28949 | 8.00 | ug/L | | 99 |
| 47) 1,1-dichloropropene | 4.459 | 75 | 26114 | 7.89 | ug/L | | 94 |
| 48) carbon tetrachloride | 4.472 | 117 | 27381 | 8.41 | ug/L | | 92 |
| 49) isopropyl acetate | 4.578 | 87 | 6508 | 7.93 | ug/L | | 94 |
| 50) tert amyl alcohol | 4.558 | 55 | 11511 | 49.77 | ug/L | # | 81 |
| 53) tert-amyl methyl ether | 4.667 | 73 | 65933 | 8.54 | ug/L | | 95 |
| 54) 2,2,4-trimethylpentane | 4.674 | 57 | 50834 | 8.25 | ug/L | | 98 |
| 55) n-butyl alcohol | 4.940 | 56 | 66800 | 399.64 | ug/L | | 97 |
| 56) benzene | 4.610 | 78 | 74628 | 8.31 | ug/L | | 95 |
| 57) heptane | 4.786 | 57 | 10688 | 7.63 | ug/L | | 89 |
| 58) 1,2-dichloroethane | 4.632 | 62 | 28808 | 8.24 | ug/L | | 98 |
| 59) trichloroethene | 5.081 | 95 | 19873 | 7.62 | ug/L | | 94 |
| 60) ethyl acrylate | 5.094 | 55 | 33973 | 7.89 | ug/L | | 95 |
| 61) 2-nitropropane | 5.624 | 41 | 9982 | 7.17 | ug/L | | 89 |
| 62) 2-chloroethyl vinyl ether | 5.656 | 63 | 60623 | 39.50 | ug/L | | 98 |
| 63) methyl methacrylate | 5.274 | 100 | 7435 | 7.34 | ug/L | # | 91 |
| 64) 1,2-dichloropropane | 5.277 | 63 | 18437 | 8.08 | ug/L | | 94 |
| 65) methylcyclohexane | 5.271 | 83 | 32860 | 7.81 | ug/L | | 92 |
| 66) dibromomethane | 5.348 | 93 | 14003 | 8.58 | ug/L | | 92 |
| 67) bromodichloromethane | 5.466 | 83 | 29817 | 8.01 | ug/L | | 85 |
| 68) cis-1,3-dichloropropene | 5.803 | 75 | 34292 | 7.73 | ug/L | | 97 |
| 69) epichlorohydrin | 5.713 | 57 | 18574 | 39.75 | ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 5.903 | 58 | 47588 | 31.53 | ug/L | | 94 |
| 71) 3-methyl-1-butanol | 5.919 | 70 | 29730 | 170.47 | ug/L | | 95 |
| 74) toluene | 6.089 | 92 | 46375 | 8.29 | ug/L | | 96 |
| 75) trans-1,3-dichloropropene | 6.259 | 75 | 31794 | 7.95 | ug/L | | 93 |
| 76) ethyl methacrylate | 6.272 | 69 | 33171 | 8.52 | ug/L | | 90 |
| 77) 1,1,2-trichloroethane | 6.429 | 83 | 16322 | 8.19 | ug/L | | 94 |
| 78) 2-hexanone | 6.590 | 58 | 49521 | 33.81 | ug/L | | 95 |
| 79) tetrachloroethene | 6.525 | 166 | 19131 | 8.46 | ug/L | | 95 |
| 80) 1,3-dichloropropane | 6.573 | 76 | 32880 | 8.61 | ug/L | | 94 |
| 81) butyl acetate | 6.676 | 56 | 16862 | 8.22 | ug/L | | 93 |
| 82) dibromochloromethane | 6.760 | 129 | 20481 | 8.15 | ug/L | | 98 |
| 83) 1,2-dibromoethane | 6.878 | 107 | 21987 | 8.48 | ug/L | | 97 |
| 84) n-butyl ether | 7.344 | 57 | 71808 | 8.34 | ug/L | | 98 |
| 85) chlorobenzene | 7.302 | 112 | 48684 | 8.08 | ug/L | | 98 |
| 86) 1,1,1,2-tetrachloroethane | 7.379 | 131 | 17961 | 8.77 | ug/L | | 83 |
| 87) ethylbenzene | 7.379 | 91 | 87094 | 8.89 | ug/L | | 96 |
| 88) m,p-xylene | 7.491 | 106 | 65789 | 16.86 | ug/L | | 96 |
| 89) o-xylene | 7.847 | 106 | 34409 | 8.38 | ug/L | | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342973.D
Acq On : 15 Jun 2022 6:22 pm
Operator : BridgetK
Sample : ic10355-8
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 16 08:28:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

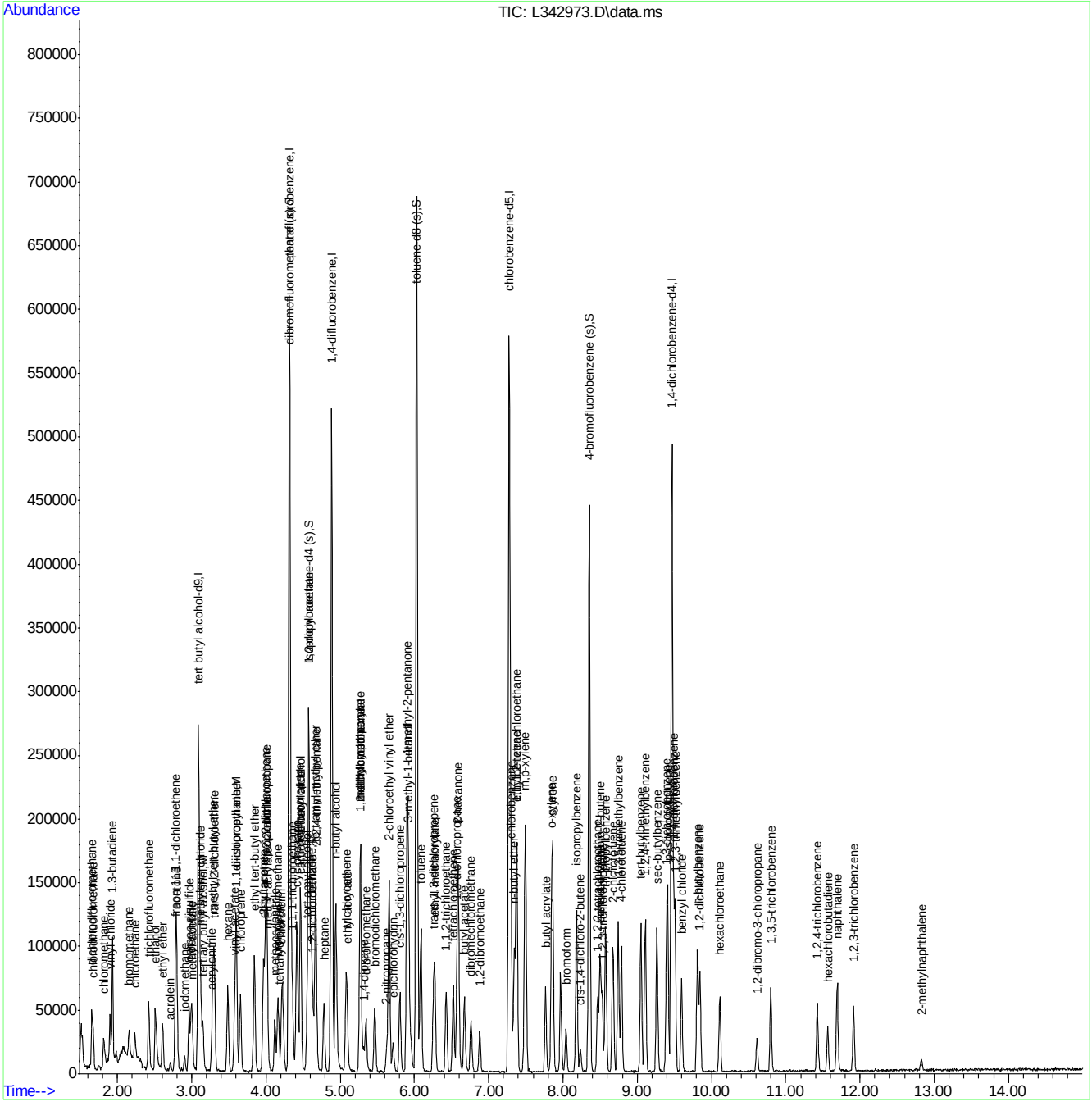
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 90) butyl acrylate | 7.770 | 55 | 41585 | 8.12 | ug/L | | 94 |
| 91) styrene | 7.863 | 104 | 56611 | 8.66 | ug/L | | 98 |
| 92) bromoform | 8.043 | 173 | 14221 | 7.67 | ug/L | | 88 |
| 93) isopropylbenzene | 8.184 | 105 | 84552 | 8.26 | ug/L | | 93 |
| 94) cis-1,4-dichloro-2-butene | 8.232 | 88 | 4833 | 6.13 | ug/L | | 88 |
| 97) bromobenzene | 8.505 | 156 | 19548 | 8.13 | ug/L | # | 81 |
| 98) 1,1,2,2-tetrachloroethane | 8.467 | 83 | 30551 | 8.16 | ug/L | | 95 |
| 99) trans-1,4-dichloro-2-b... | 8.505 | 53 | 3913 | 6.61 | ug/L | # | 83 |
| 100) 1,2,3-trichloropropane | 8.534 | 110 | 9362 | 8.40 | ug/L | | 95 |
| 101) n-propylbenzene | 8.576 | 91 | 95404 | 8.29 | ug/L | | 99 |
| 102) 2-chlorotoluene | 8.672 | 126 | 17873 | 7.84 | ug/L | | 95 |
| 103) 4-chlorotoluene | 8.791 | 126 | 18235 | 8.18 | ug/L | # | 77 |
| 104) 1,3,5-trimethylbenzene | 8.746 | 105 | 66923 | 8.02 | ug/L | | 98 |
| 105) tert-butylbenzene | 9.051 | 119 | 56175 | 7.84 | ug/L | | 96 |
| 106) 1,2,4-trimethylbenzene | 9.108 | 105 | 67782 | 7.97 | ug/L | | 100 |
| 107) sec-butylbenzene | 9.266 | 105 | 80248 | 7.90 | ug/L | | 98 |
| 108) 1,3-dichlorobenzene | 9.397 | 146 | 32967 | 7.64 | ug/L | | 95 |
| 109) p-isopropyltoluene | 9.413 | 119 | 65282 | 8.14 | ug/L | | 95 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 31170 | 7.49 | ug/L | | 99 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 65060 | 8.00 | ug/L | | 99 |
| 112) 1,2-dichlorobenzene | 9.840 | 146 | 31859 | 7.91 | ug/L | | 92 |
| 113) n-butylbenzene | 9.811 | 92 | 31046 | 7.36 | ug/L | | 98 |
| 114) 1,2-dibromo-3-chloropr... | 10.617 | 157 | 7203 | 7.22 | ug/L | | 91 |
| 115) 1,3,5-trichlorobenzene | 10.800 | 180 | 19872 | 6.81 | ug/L | | 87 |
| 116) 1,2,4-trichlorobenzene | 11.425 | 180 | 15981 | 6.49 | ug/L | | 91 |
| 117) hexachlorobutadiene | 11.567 | 225 | 6241 | 6.85 | ug/L | | 93 |
| 118) naphthalene | 11.695 | 128 | 53517 | 6.89 | ug/L | | 98 |
| 119) 1,2,3-trichlorobenzene | 11.916 | 180 | 14972 | 7.04 | ug/L | | 99 |
| 120) hexachloroethane | 10.116 | 119 | 12601 | 7.56 | ug/L | | 92 |
| 121) benzyl chloride | 9.599 | 91 | 56003 | 7.78 | ug/L | | 96 |
| 122) 2-methylnaphthalene | 12.828 | 142 | 4436 | 1.48 | ug/L | | 90 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342973.D
Acq On : 15 Jun 2022 6:22 pm
Operator : BridgetK
Sample : ic10355-8
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 16 08:28:41 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342974.D
Acq On : 15 Jun 2022 6:45 pm
Operator : BridgetK
Sample : ic10355-20
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 16 08:28:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.092 | 65 | 276462 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.314 | 168 | 233148 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.882 | 114 | 348731 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 318149 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 123050 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.324 | 113 | 107069 | 50.11 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.22% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.574 | 65 | 127430 | 51.22 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 102.44% | | | | |
| 73) toluene-d8 (s) | 6.028 | 98 | 425337 | 50.95 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.90% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 159075 | 50.09 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.18% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.312 | 88 | 31901 | 481.60 | ug/L | | 94 |
| 3) ethanol | 2.514 | 45 | 125364 | 1964.71 | ug/L | | 98 |
| 4) tertiary butyl alcohol | 3.146 | 59 | 74314 | 96.34 | ug/L | | 99 |
| 6) chlorodifluoromethane | 1.673 | 51 | 51414 | 20.13 | ug/L | # | 93 |
| 7) dichlorodifluoromethane | 1.654 | 85 | 75041 | 19.71 | ug/L | | 98 |
| 8) chloromethane | 1.818 | 50 | 50712 | 20.19 | ug/L | | 95 |
| 9) vinyl chloride | 1.901 | 62 | 61406 | 20.14 | ug/L | | 99 |
| 10) 1.3-butadiene | 1.930 | 54 | 64462 | 20.74 | ug/L | | 98 |
| 11) bromomethane | 2.151 | 96 | 23990 | 18.63 | ug/L | | 95 |
| 12) chloroethane | 2.235 | 64 | 33577 | 19.37 | ug/L | | 97 |
| 13) trichlorofluoromethane | 2.421 | 101 | 88057 | 20.25 | ug/L | | 98 |
| 14) ethyl ether | 2.607 | 74 | 32267 | 19.67 | ug/L | | 97 |
| 15) acrolein | 2.707 | 56 | 10726 | 19.57 | ug/L | | 88 |
| 16) freon 113 | 2.780 | 151 | 34701 | 19.56 | ug/L | | 94 |
| 17) 1,1-dichloroethene | 2.787 | 96 | 44173 | 20.42 | ug/L | | 98 |
| 18) acetone | 2.800 | 58 | 30330 | 80.67 | ug/L | | 98 |
| 19) acetonitrile | 2.989 | 40 | 50277 | 207.50 | ug/L | | 99 |
| 20) iodomethane | 2.902 | 142 | 32908 | 16.32 | ug/L | | 92 |
| 21) iso-butyl alcohol | 4.459 | 43 | 47478 | 217.03 | ug/L | | 95 |
| 22) carbon disulfide | 2.963 | 76 | 131386 | 20.71 | ug/L | | 99 |
| 23) methylene chloride | 3.117 | 84 | 47169 | 19.84 | ug/L | | 96 |
| 24) methyl acetate | 3.008 | 74 | 15048 | 20.10 | ug/L | # | 85 |
| 25) methyl tert butyl ether | 3.287 | 73 | 163588 | 19.86 | ug/L | | 100 |
| 26) trans-1,2-dichloroethene | 3.303 | 96 | 45861 | 20.03 | ug/L | | 92 |
| 27) hexane | 3.483 | 57 | 64616 | 19.92 | ug/L | | 96 |
| 28) di-isopropyl ether | 3.592 | 45 | 133145 | 20.12 | ug/L | | 95 |
| 29) ethyl tert-butyl ether | 3.843 | 59 | 156143 | 19.93 | ug/L | | 96 |
| 30) 2-butanone | 3.961 | 72 | 45681 | 79.87 | ug/L | | 96 |
| 31) 1,1-dichloroethane | 3.602 | 63 | 81110 | 19.80 | ug/L | | 93 |
| 32) chloroprene | 3.653 | 53 | 66355 | 20.56 | ug/L | | 95 |
| 33) acrylonitrile | 3.265 | 53 | 27270 | 20.27 | ug/L | | 98 |
| 34) vinyl acetate | 3.576 | 86 | 14309 | 19.09 | ug/L | # | 79 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342974.D
Acq On : 15 Jun 2022 6:45 pm
Operator : BridgetK
Sample : ic10355-20
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 16 08:28:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 35) ethyl acetate | 3.971 | 45 | 11568 | 21.17 | ug/L | # | 66 |
| 36) 2,2-dichloropropane | 3.997 | 77 | 81101 | 21.46 | ug/L | | 94 |
| 37) cis-1,2-dichloroethene | 3.990 | 96 | 51623 | 20.30 | ug/L | | 93 |
| 38) propionitrile | 4.009 | 54 | 114716 | 212.24 | ug/L | | 95 |
| 39) methyl acrylate | 4.009 | 85 | 13639 | 21.00 | ug/L | # | 82 |
| 40) bromochloromethane | 4.154 | 128 | 21859 | 18.84 | ug/L | | 98 |
| 41) tetrahydrofuran | 4.167 | 72 | 14031 | 21.23 | ug/L | | 94 |
| 42) chloroform | 4.212 | 83 | 89892 | 20.22 | ug/L | | 93 |
| 44) methacrylonitrile | 4.115 | 67 | 31040 | 19.95 | ug/L | | 98 |
| 45) 1,1,1-trichloroethane | 4.353 | 97 | 78511 | 19.66 | ug/L | | 99 |
| 46) cyclohexane | 4.411 | 84 | 71551 | 20.51 | ug/L | | 93 |
| 47) 1,1-dichloropropene | 4.455 | 75 | 64655 | 20.26 | ug/L | | 96 |
| 48) carbon tetrachloride | 4.465 | 117 | 67497 | 21.51 | ug/L | | 98 |
| 49) isopropyl acetate | 4.574 | 87 | 16078 | 20.33 | ug/L | | 92 |
| 50) tert amyl alcohol | 4.552 | 55 | 25265 | 113.29 | ug/L | # | 82 |
| 53) tert-amyl methyl ether | 4.667 | 73 | 155299 | 20.90 | ug/L | | 97 |
| 54) 2,2,4-trimethylpentane | 4.667 | 57 | 125593 | 21.18 | ug/L | | 98 |
| 55) n-butyl alcohol | 4.937 | 56 | 167848 | 1043.51 | ug/L | | 98 |
| 56) benzene | 4.606 | 78 | 181807 | 21.04 | ug/L | | 97 |
| 57) heptane | 4.780 | 57 | 26622 | 19.75 | ug/L | | 96 |
| 58) 1,2-dichloroethane | 4.629 | 62 | 68082 | 20.23 | ug/L | | 98 |
| 59) trichloroethene | 5.075 | 95 | 50768 | 20.22 | ug/L | | 94 |
| 60) ethyl acrylate | 5.094 | 55 | 83645 | 20.19 | ug/L | | 98 |
| 61) 2-nitropropane | 5.627 | 41 | 25119 | 18.76 | ug/L | | 97 |
| 62) 2-chloroethyl vinyl ether | 5.656 | 63 | 148316 | 100.43 | ug/L | | 97 |
| 63) methyl methacrylate | 5.271 | 100 | 19579 | 20.10 | ug/L | | 94 |
| 64) 1,2-dichloropropane | 5.277 | 63 | 45071 | 20.52 | ug/L | | 96 |
| 65) methylcyclohexane | 5.264 | 83 | 80796 | 19.94 | ug/L | | 97 |
| 66) dibromomethane | 5.348 | 93 | 30898 | 19.68 | ug/L | | 92 |
| 67) bromodichloromethane | 5.463 | 83 | 69373 | 19.38 | ug/L | | 99 |
| 68) cis-1,3-dichloropropene | 5.803 | 75 | 83802 | 19.62 | ug/L | | 95 |
| 69) epichlorohydrin | 5.713 | 57 | 47009 | 104.55 | ug/L | | 97 |
| 70) 4-methyl-2-pentanone | 5.899 | 58 | 120995 | 83.30 | ug/L | | 96 |
| 71) 3-methyl-1-butanol | 5.919 | 70 | 72982 | 434.86 | ug/L | | 99 |
| 74) toluene | 6.082 | 92 | 114083 | 20.28 | ug/L | | 98 |
| 75) trans-1,3-dichloropropene | 6.252 | 75 | 78736 | 19.59 | ug/L | | 95 |
| 76) ethyl methacrylate | 6.275 | 69 | 80657 | 20.62 | ug/L | | 97 |
| 77) 1,1,2-trichloroethane | 6.423 | 83 | 40669 | 20.31 | ug/L | | 94 |
| 78) 2-hexanone | 6.589 | 58 | 124188 | 84.35 | ug/L | | 95 |
| 79) tetrachloroethene | 6.519 | 166 | 46237 | 20.33 | ug/L | | 98 |
| 80) 1,3-dichloropropane | 6.570 | 76 | 78639 | 20.48 | ug/L | | 98 |
| 81) butyl acetate | 6.673 | 56 | 42592 | 20.67 | ug/L | | 94 |
| 82) dibromochloromethane | 6.759 | 129 | 51085 | 20.21 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 6.875 | 107 | 51863 | 19.90 | ug/L | | 93 |
| 84) n-butyl ether | 7.343 | 57 | 176992 | 20.44 | ug/L | | 99 |
| 85) chlorobenzene | 7.302 | 112 | 122587 | 20.25 | ug/L | | 99 |
| 86) 1,1,1,2-tetrachloroethane | 7.372 | 131 | 43016 | 20.89 | ug/L | | 96 |
| 87) ethylbenzene | 7.376 | 91 | 211999 | 21.53 | ug/L | | 98 |
| 88) m,p-xylene | 7.491 | 106 | 163588 | 41.70 | ug/L | | 98 |
| 89) o-xylene | 7.847 | 106 | 83773 | 20.29 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342974.D
Acq On : 15 Jun 2022 6:45 pm
Operator : BridgetK
Sample : ic10355-20
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 16 08:28:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

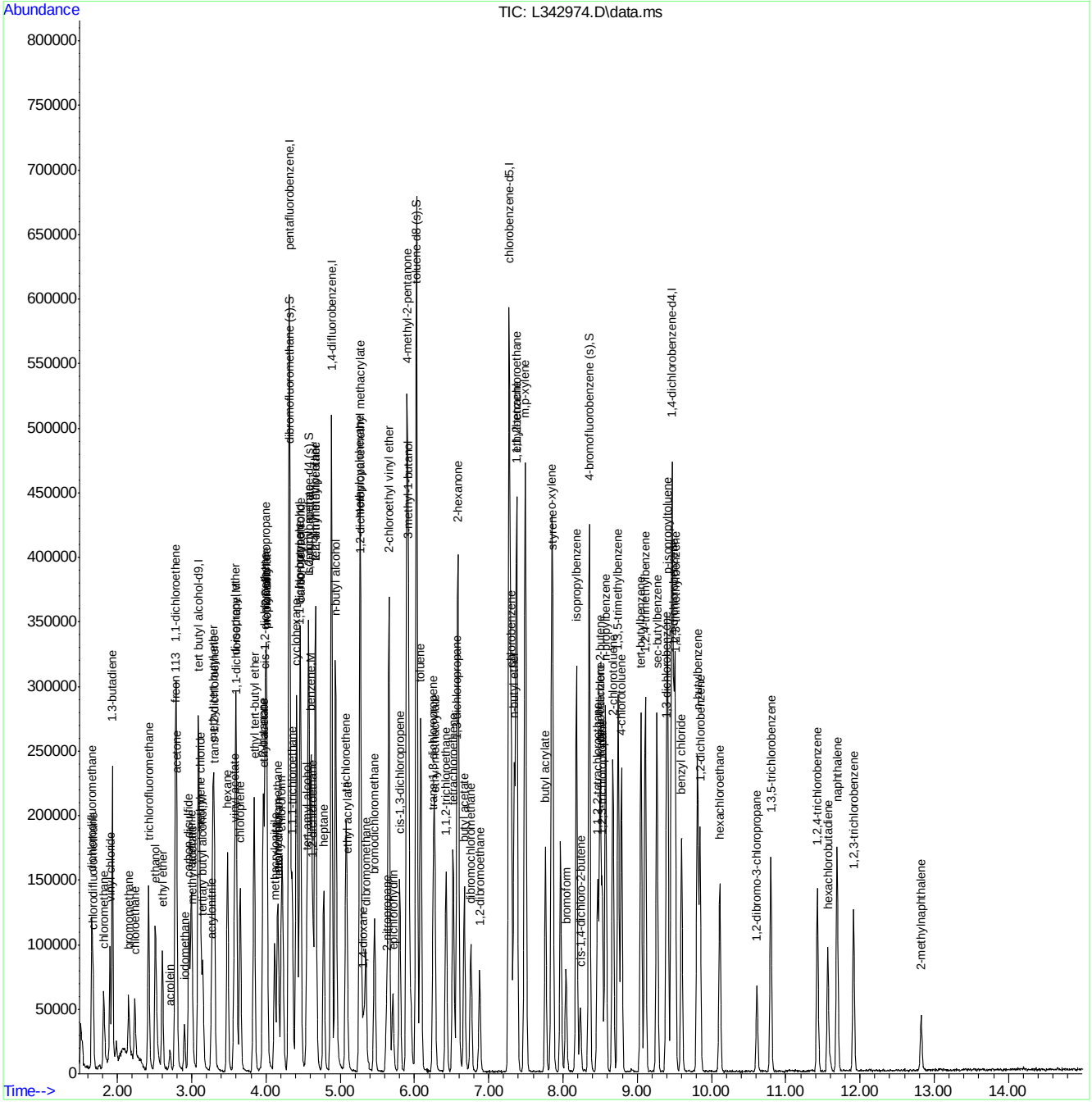
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 90) butyl acrylate | 7.764 | 55 | 102586 | 19.94 | ug/L | | 97 |
| 91) styrene | 7.863 | 104 | 137086 | 20.87 | ug/L | | 94 |
| 92) bromoform | 8.040 | 173 | 37690 | 20.22 | ug/L | | 93 |
| 93) isopropylbenzene | 8.181 | 105 | 211861 | 20.58 | ug/L | | 97 |
| 94) cis-1,4-dichloro-2-butene | 8.239 | 88 | 13665 | 17.25 | ug/L | | 97 |
| 97) bromobenzene | 8.499 | 156 | 44912 | 18.92 | ug/L | | 99 |
| 98) 1,1,2,2-tetrachloroethane | 8.467 | 83 | 73376 | 19.84 | ug/L | | 99 |
| 99) trans-1,4-dichloro-2-b... | 8.505 | 53 | 11020 | 18.84 | ug/L | # | 83 |
| 100) 1,2,3-trichloropropane | 8.528 | 110 | 22800 | 20.71 | ug/L | | 97 |
| 101) n-propylbenzene | 8.576 | 91 | 231447 | 20.35 | ug/L | | 100 |
| 102) 2-chlorotoluene | 8.672 | 126 | 44147 | 19.60 | ug/L | # | 83 |
| 103) 4-chlorotoluene | 8.791 | 126 | 44855 | 20.37 | ug/L | | 89 |
| 104) 1,3,5-trimethylbenzene | 8.743 | 105 | 167556 | 20.34 | ug/L | | 99 |
| 105) tert-butylbenzene | 9.051 | 119 | 138214 | 19.52 | ug/L | | 98 |
| 106) 1,2,4-trimethylbenzene | 9.108 | 105 | 168159 | 20.02 | ug/L | | 99 |
| 107) sec-butylbenzene | 9.266 | 105 | 202244 | 20.16 | ug/L | | 98 |
| 108) 1,3-dichlorobenzene | 9.391 | 146 | 81598 | 19.15 | ug/L | | 99 |
| 109) p-isopropyltoluene | 9.410 | 119 | 159112 | 20.09 | ug/L | | 99 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 77710 | 18.90 | ug/L | | 98 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 161150 | 20.05 | ug/L | | 97 |
| 112) 1,2-dichlorobenzene | 9.846 | 146 | 76755 | 19.29 | ug/L | | 99 |
| 113) n-butylbenzene | 9.811 | 92 | 79838 | 19.16 | ug/L | | 96 |
| 114) 1,2-dibromo-3-chloropr... | 10.610 | 157 | 18856 | 19.12 | ug/L | | 93 |
| 115) 1,3,5-trichlorobenzene | 10.799 | 180 | 52496 | 18.20 | ug/L | | 99 |
| 116) 1,2,4-trichlorobenzene | 11.428 | 180 | 43954 | 18.07 | ug/L | | 98 |
| 117) hexachlorobutadiene | 11.570 | 225 | 17234 | 19.14 | ug/L | | 91 |
| 118) naphthalene | 11.692 | 128 | 144346 | 18.80 | ug/L | | 98 |
| 119) 1,2,3-trichlorobenzene | 11.916 | 180 | 39157 | 18.64 | ug/L | | 91 |
| 120) hexachloroethane | 10.113 | 119 | 32158 | 19.52 | ug/L | | 94 |
| 121) benzyl chloride | 9.596 | 91 | 142607 | 20.04 | ug/L | | 97 |
| 122) 2-methylnaphthalene | 12.824 | 142 | 20540 | 6.95 | ug/L | | 91 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342974.D
Acq On : 15 Jun 2022 6:45 pm
Operator : BridgetK
Sample : ic10355-20
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 16 08:28:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342975.D
Acq On : 15 Jun 2022 7:09 pm
Operator : BridgetK
Sample : icc10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 16 08:28:45 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.095 | 65 | 252218 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.311 | 168 | 224201 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.882 | 114 | 337069 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 317858 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.465 | 152 | 121119 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.324 | 113 | 102739 | 50.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.577 | 65 | 120238 | 50.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 100.00% | | | | |
| 73) toluene-d8 (s) | 6.028 | 98 | 417048 | 50.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.351 | 95 | 156283 | 50.00 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.00% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.319 | 88 | 75539 | 1250.00 | ug/L | | 100 |
| 3) ethanol | 2.514 | 45 | 289734 | 4977.19 | ug/L | | 100 |
| 4) tertiary butyl alcohol | 3.149 | 59 | 175923 | 250.00 | ug/L | | 100 |
| 6) chlorodifluoromethane | 1.673 | 51 | 122803 | 50.00 | ug/L | # | 100 |
| 7) dichlorodifluoromethane | 1.654 | 85 | 183099 | 50.00 | ug/L | | 100 |
| 8) chloromethane | 1.814 | 50 | 120753 | 50.00 | ug/L | | 100 |
| 9) vinyl chloride | 1.901 | 62 | 146574 | 50.00 | ug/L | | 100 |
| 10) 1.3-butadiene | 1.930 | 54 | 148569 | 49.70 | ug/L | | 100 |
| 11) bromomethane | 2.148 | 96 | 61924 | 50.00 | ug/L | | 100 |
| 12) chloroethane | 2.232 | 64 | 82866 | 49.71 | ug/L | | 100 |
| 13) trichlorofluoromethane | 2.421 | 101 | 209108 | 50.00 | ug/L | | 100 |
| 14) ethyl ether | 2.607 | 74 | 78869 | 50.00 | ug/L | | 100 |
| 15) acrolein | 2.707 | 56 | 26350 | 50.00 | ug/L | | 100 |
| 16) freon 113 | 2.780 | 151 | 85572 | 50.16 | ug/L | | 100 |
| 17) 1,1-dichloroethene | 2.787 | 96 | 104002 | 50.00 | ug/L | | 100 |
| 18) acetone | 2.800 | 58 | 71864 | 198.77 | ug/L | | 100 |
| 19) acetonitrile | 2.992 | 40 | 116498 | 500.00 | ug/L | | 100 |
| 20) iodomethane | 2.902 | 142 | 96944 | 50.00 | ug/L | | 100 |
| 21) iso-butyl alcohol | 4.462 | 43 | 105184 | 500.00 | ug/L | | 100 |
| 22) carbon disulfide | 2.963 | 76 | 304298 | 49.88 | ug/L | | 100 |
| 23) methylene chloride | 3.121 | 84 | 114311 | 50.01 | ug/L | | 100 |
| 24) methyl acetate | 3.008 | 74 | 36281 | 50.39 | ug/L | | 99 |
| 25) methyl tert butyl ether | 3.287 | 73 | 395598 | 49.93 | ug/L | | 100 |
| 26) trans-1,2-dichloroethene | 3.307 | 96 | 110086 | 50.01 | ug/L | | 100 |
| 27) hexane | 3.483 | 57 | 155978 | 50.00 | ug/L | | 100 |
| 28) di-isopropyl ether | 3.592 | 45 | 317822 | 49.95 | ug/L | | 100 |
| 29) ethyl tert-butyl ether | 3.843 | 59 | 376744 | 50.00 | ug/L | | 100 |
| 30) 2-butanone | 3.961 | 72 | 110005 | 200.00 | ug/L | | 100 |
| 31) 1,1-dichloroethane | 3.602 | 63 | 196778 | 49.96 | ug/L | | 100 |
| 32) chloroprene | 3.653 | 53 | 155228 | 50.02 | ug/L | | 100 |
| 33) acrylonitrile | 3.268 | 53 | 64586 | 49.93 | ug/L | | 100 |
| 34) vinyl acetate | 3.576 | 86 | 35775 | 49.64 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342975.D
Acq On : 15 Jun 2022 7:09 pm
Operator : BridgetK
Sample : icc10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 16 08:28:45 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 35) ethyl acetate | 3.968 | 45 | 26270 | 50.00 | ug/L | 100 |
| 36) 2,2-dichloropropane | 4.000 | 77 | 181734 | 50.00 | ug/L | 100 |
| 37) cis-1,2-dichloroethene | 3.990 | 96 | 122248 | 49.99 | ug/L | 100 |
| 38) propionitrile | 4.009 | 54 | 259170 | 498.63 | ug/L | 100 |
| 39) methyl acrylate | 4.016 | 85 | 31225 | 50.01 | ug/L | 99 |
| 40) bromochloromethane | 4.157 | 128 | 55675 | 49.91 | ug/L | 100 |
| 41) tetrahydrofuran | 4.170 | 72 | 31774 | 50.00 | ug/L | 100 |
| 42) chloroform | 4.208 | 83 | 213797 | 50.00 | ug/L | 100 |
| 44) methacrylonitrile | 4.118 | 67 | 74809 | 50.00 | ug/L | 100 |
| 45) 1,1,1-trichloroethane | 4.353 | 97 | 192051 | 50.00 | ug/L | 100 |
| 46) cyclohexane | 4.414 | 84 | 167732 | 50.00 | ug/L | 100 |
| 47) 1,1-dichloropropene | 4.462 | 75 | 152247 | 49.61 | ug/L | 99 |
| 48) carbon tetrachloride | 4.465 | 117 | 150897 | 50.00 | ug/L | 100 |
| 49) isopropyl acetate | 4.577 | 87 | 38026 | 50.00 | ug/L | 100 |
| 50) tert amyl alcohol | 4.555 | 55 | 54869 | 255.86 | ug/L | 99 |
| 53) tert-amyl methyl ether | 4.667 | 73 | 357765 | 49.81 | ug/L | 100 |
| 54) 2,2,4-trimethylpentane | 4.670 | 57 | 286791 | 50.03 | ug/L | 100 |
| 55) n-butyl alcohol | 4.940 | 56 | 388676 | 2500.00 | ug/L | 100 |
| 56) benzene | 4.606 | 78 | 417634 | 50.00 | ug/L | 100 |
| 57) heptane | 4.780 | 57 | 64996 | 49.89 | ug/L | 99 |
| 58) 1,2-dichloroethane | 4.632 | 62 | 161582 | 49.68 | ug/L | 100 |
| 59) trichloroethene | 5.078 | 95 | 121362 | 50.00 | ug/L | 100 |
| 60) ethyl acrylate | 5.094 | 55 | 200243 | 50.00 | ug/L | 100 |
| 61) 2-nitropropane | 5.627 | 41 | 59937 | 46.30 | ug/L | 100 |
| 62) 2-chloroethyl vinyl ether | 5.656 | 63 | 363775 | 254.84 | ug/L | 100 |
| 63) methyl methacrylate | 5.270 | 100 | 46855 | 49.76 | ug/L | 100 |
| 64) 1,2-dichloropropane | 5.274 | 63 | 105970 | 49.91 | ug/L | 100 |
| 65) methylcyclohexane | 5.264 | 83 | 196360 | 50.14 | ug/L | 100 |
| 66) dibromomethane | 5.344 | 93 | 75879 | 50.00 | ug/L | 100 |
| 67) bromodichloromethane | 5.463 | 83 | 173027 | 50.00 | ug/L | 100 |
| 68) cis-1,3-dichloropropene | 5.803 | 75 | 206417 | 50.00 | ug/L | 100 |
| 69) epichlorohydrin | 5.713 | 57 | 111049 | 255.53 | ug/L | 96 |
| 70) 4-methyl-2-pentanone | 5.899 | 58 | 280781 | 200.00 | ug/L | 100 |
| 71) 3-methyl-1-butanol | 5.919 | 70 | 162378 | 1001.00 | ug/L | 100 |
| 74) toluene | 6.086 | 92 | 280964 | 49.99 | ug/L | 100 |
| 75) trans-1,3-dichloropropene | 6.256 | 75 | 200623 | 49.97 | ug/L | 100 |
| 76) ethyl methacrylate | 6.275 | 69 | 195554 | 50.04 | ug/L | 100 |
| 77) 1,1,2-trichloroethane | 6.426 | 83 | 100060 | 50.02 | ug/L | 100 |
| 78) 2-hexanone | 6.589 | 58 | 294135 | 199.96 | ug/L | 100 |
| 79) tetrachloroethene | 6.522 | 166 | 113608 | 50.00 | ug/L | 100 |
| 80) 1,3-dichloropropane | 6.570 | 76 | 191682 | 49.97 | ug/L | 100 |
| 81) butyl acetate | 6.670 | 56 | 103150 | 50.10 | ug/L | 100 |
| 82) dibromochloromethane | 6.763 | 129 | 126215 | 49.99 | ug/L | 100 |
| 83) 1,2-dibromoethane | 6.878 | 107 | 130155 | 49.99 | ug/L | 100 |
| 84) n-butyl ether | 7.343 | 57 | 432158 | 49.96 | ug/L | 100 |
| 85) chlorobenzene | 7.305 | 112 | 302406 | 49.99 | ug/L | 100 |
| 86) 1,1,1,2-tetrachloroethane | 7.372 | 131 | 102850 | 49.99 | ug/L | 100 |
| 87) ethylbenzene | 7.376 | 91 | 491685 | 49.98 | ug/L | 100 |
| 88) m,p-xylene | 7.491 | 106 | 391827 | 99.98 | ug/L | 100 |
| 89) o-xylene | 7.847 | 106 | 206119 | 49.98 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342975.D
Acq On : 15 Jun 2022 7:09 pm
Operator : BridgetK
Sample : icc10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 16 08:28:45 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

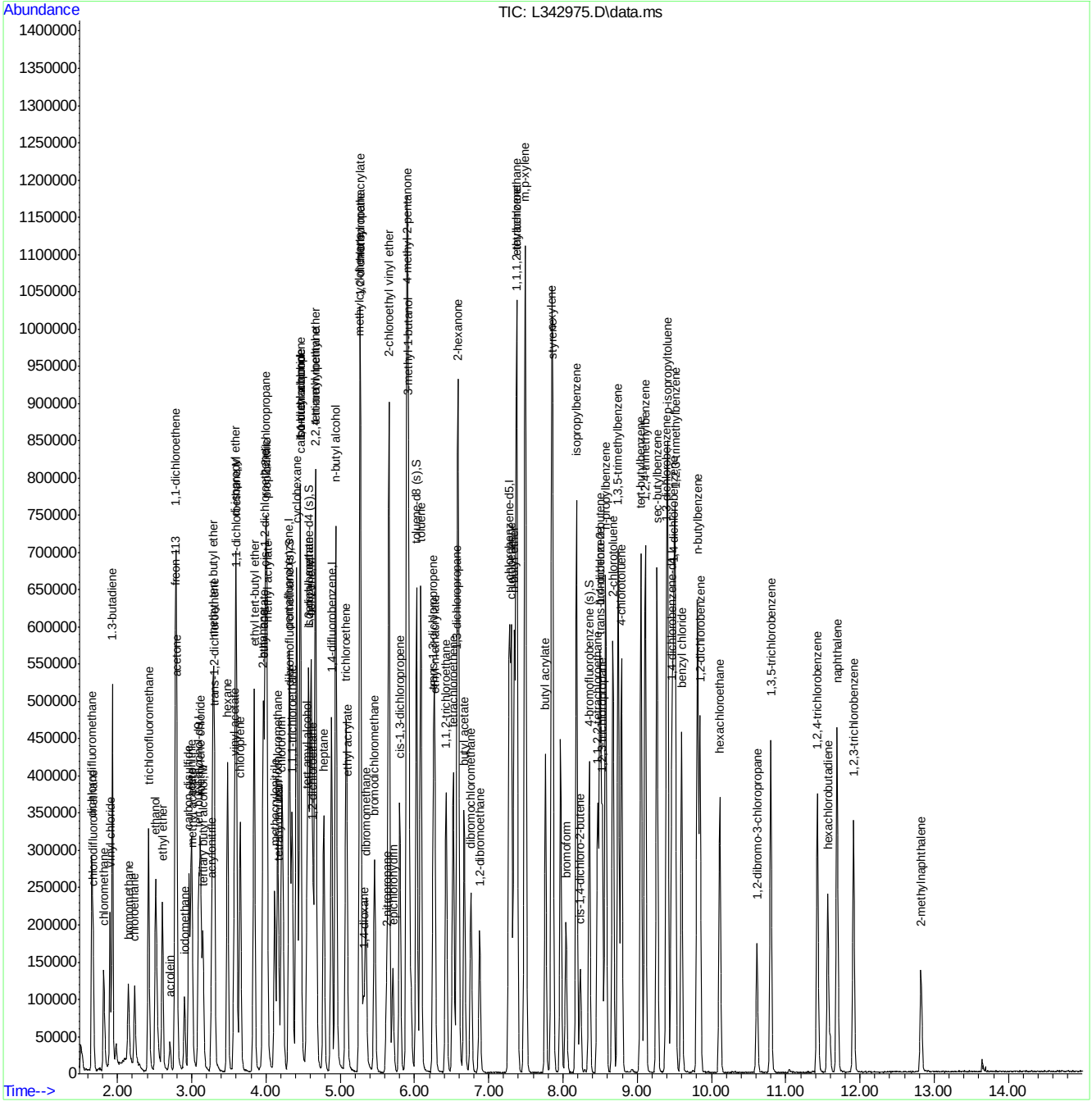
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 90) butyl acrylate | 7.764 | 55 | 256812 | 49.96 | ug/L | 100 |
| 91) styrene | 7.863 | 104 | 328035 | 49.99 | ug/L | 100 |
| 92) bromoform | 8.043 | 173 | 93097 | 49.99 | ug/L | 100 |
| 93) isopropylbenzene | 8.181 | 105 | 513976 | 49.98 | ug/L | 100 |
| 94) cis-1,4-dichloro-2-butene | 8.236 | 88 | 39445 | 49.85 | ug/L | 100 |
| 97) bromobenzene | 8.499 | 156 | 116830 | 50.00 | ug/L | 100 |
| 98) 1,1,2,2-tetrachloroethane | 8.467 | 83 | 181708 | 49.93 | ug/L | 100 |
| 99) trans-1,4-dichloro-2-b... | 8.505 | 53 | 28792 | 50.00 | ug/L | 100 |
| 100) 1,2,3-trichloropropane | 8.531 | 110 | 54173 | 50.00 | ug/L | 100 |
| 101) n-propylbenzene | 8.572 | 91 | 559784 | 50.00 | ug/L | 100 |
| 102) 2-chlorotoluene | 8.672 | 126 | 110834 | 50.00 | ug/L | 100 |
| 103) 4-chlorotoluene | 8.791 | 126 | 108386 | 50.00 | ug/L | 100 |
| 104) 1,3,5-trimethylbenzene | 8.743 | 105 | 404602 | 49.89 | ug/L | 100 |
| 105) tert-butylbenzene | 9.051 | 119 | 348490 | 50.00 | ug/L | 100 |
| 106) 1,2,4-trimethylbenzene | 9.108 | 105 | 413216 | 49.98 | ug/L | 100 |
| 107) sec-butylbenzene | 9.266 | 105 | 494264 | 50.05 | ug/L | 100 |
| 108) 1,3-dichlorobenzene | 9.394 | 146 | 209444 | 49.95 | ug/L | 100 |
| 109) p-isopropyltoluene | 9.410 | 119 | 389663 | 49.99 | ug/L | 100 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 202159 | 49.95 | ug/L | 100 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 395628 | 50.01 | ug/L | 100 |
| 112) 1,2-dichlorobenzene | 9.846 | 146 | 195778 | 50.00 | ug/L | 100 |
| 113) n-butylbenzene | 9.811 | 92 | 205111 | 50.00 | ug/L | 100 |
| 114) 1,2-dibromo-3-chloropr... | 10.613 | 157 | 48494 | 49.96 | ug/L | 100 |
| 115) 1,3,5-trichlorobenzene | 10.799 | 180 | 141872 | 49.97 | ug/L | 100 |
| 116) 1,2,4-trichlorobenzene | 11.425 | 180 | 119746 | 50.00 | ug/L | 100 |
| 117) hexachlorobutadiene | 11.566 | 225 | 44303 | 50.00 | ug/L | 100 |
| 118) naphthalene | 11.692 | 128 | 378029 | 50.03 | ug/L | 100 |
| 119) 1,2,3-trichlorobenzene | 11.913 | 180 | 103457 | 50.03 | ug/L | 100 |
| 120) hexachloroethane | 10.113 | 119 | 81061 | 50.00 | ug/L | 100 |
| 121) benzyl chloride | 9.599 | 91 | 348346 | 49.74 | ug/L | 100 |
| 122) 2-methylnaphthalene | 12.824 | 142 | 73037 | 25.11 | ug/L | 100 |

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

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342975.D
Acq On : 15 Jun 2022 7:09 pm
Operator : BridgetK
Sample : icc10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 16 08:28:45 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342976.D
Acq On : 15 Jun 2022 7:32 pm
Operator : BridgetK
Sample : ic10355-100
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 16 08:28:47 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.101 | 65 | 226351 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.314 | 168 | 218933 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.885 | 114 | 332559 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.279 | 117 | 314205 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 117194 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.324 | 113 | 99625 | 49.65 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.30% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.577 | 65 | 110726 | 46.67 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 93.34% | | | | |
| 73) toluene-d8 (s) | 6.031 | 98 | 407784 | 49.46 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.92% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 153017 | 50.59 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.18% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.322 | 88 | 143680 | 2649.29 | ug/L | | 96 |
| 3) ethanol | 2.520 | 45 | 535638 | 10252.97 | ug/L | | 99 |
| 4) tertiary butyl alcohol | 3.156 | 59 | 319118 | 505.32 | ug/L | | 98 |
| 6) chlorodifluoromethane | 1.673 | 51 | 242203 | 100.99 | ug/L | # | 100 |
| 7) dichlorodifluoromethane | 1.657 | 85 | 364178 | 101.84 | ug/L | | 99 |
| 8) chloromethane | 1.818 | 50 | 244161 | 103.53 | ug/L | | 98 |
| 9) vinyl chloride | 1.901 | 62 | 289832 | 101.25 | ug/L | | 98 |
| 10) 1.3-butadiene | 1.930 | 54 | 262433 | 89.91 | ug/L | | 98 |
| 11) bromomethane | 2.139 | 96 | 115484 | 95.49 | ug/L | | 96 |
| 12) chloroethane | 2.225 | 64 | 163272 | 100.30 | ug/L | | 99 |
| 13) trichlorofluoromethane | 2.418 | 101 | 413329 | 101.21 | ug/L | | 98 |
| 14) ethyl ether | 2.607 | 74 | 150432 | 97.66 | ug/L | | 91 |
| 15) acrolein | 2.710 | 56 | 52392 | 101.81 | ug/L | | 91 |
| 16) freon 113 | 2.780 | 151 | 162624 | 97.61 | ug/L | | 99 |
| 17) 1,1-dichloroethene | 2.787 | 96 | 193228 | 95.13 | ug/L | | 96 |
| 18) acetone | 2.803 | 58 | 132443 | 375.15 | ug/L | | 90 |
| 19) acetonitrile | 2.992 | 40 | 216899 | 953.31 | ug/L | | 100 |
| 20) iodomethane | 2.906 | 142 | 206839 | 109.25 | ug/L | | 93 |
| 21) iso-butyl alcohol | 4.471 | 43 | 192769 | 938.39 | ug/L | | 92 |
| 22) carbon disulfide | 2.963 | 76 | 583545 | 97.96 | ug/L | | 100 |
| 23) methylene chloride | 3.120 | 84 | 224377 | 100.52 | ug/L | | 98 |
| 24) methyl acetate | 3.008 | 74 | 68927 | 98.04 | ug/L | | 95 |
| 25) methyl tert butyl ether | 3.287 | 73 | 730236 | 94.39 | ug/L | | 96 |
| 26) trans-1,2-dichloroethene | 3.307 | 96 | 205007 | 95.36 | ug/L | | 96 |
| 27) hexane | 3.483 | 57 | 300765 | 98.73 | ug/L | | 98 |
| 28) di-isopropyl ether | 3.595 | 45 | 585764 | 94.27 | ug/L | | 96 |
| 29) ethyl tert-butyl ether | 3.843 | 59 | 709098 | 96.37 | ug/L | | 97 |
| 30) 2-butanone | 3.964 | 72 | 210795 | 392.47 | ug/L | | 95 |
| 31) 1,1-dichloroethane | 3.602 | 63 | 368551 | 95.82 | ug/L | | 98 |
| 32) chloroprene | 3.653 | 53 | 299395 | 98.80 | ug/L | | 99 |
| 33) acrylonitrile | 3.268 | 53 | 127155 | 100.67 | ug/L | | 94 |
| 34) vinyl acetate | 3.576 | 86 | 68548 | 97.41 | ug/L | | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342976.D
Acq On : 15 Jun 2022 7:32 pm
Operator : BridgetK
Sample : ic10355-100
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 16 08:28:47 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 35) ethyl acetate | 3.974 | 45 | 50535 | 98.50 | ug/L # | 67 |
| 36) 2,2-dichloropropane | 4.003 | 77 | 332007 | 93.54 | ug/L | 99 |
| 37) cis-1,2-dichloroethene | 3.993 | 96 | 228818 | 95.83 | ug/L | 96 |
| 38) propionitrile | 4.013 | 54 | 476799 | 939.42 | ug/L | 97 |
| 39) methyl acrylate | 4.019 | 85 | 57649 | 94.55 | ug/L | 98 |
| 40) bromochloromethane | 4.160 | 128 | 106160 | 97.46 | ug/L | 96 |
| 41) tetrahydrofuran | 4.170 | 72 | 61547 | 99.18 | ug/L | 92 |
| 42) chloroform | 4.215 | 83 | 395462 | 94.71 | ug/L | 93 |
| 44) methacrylonitrile | 4.118 | 67 | 144668 | 99.02 | ug/L | 95 |
| 45) 1,1,1-trichloroethane | 4.353 | 97 | 370465 | 98.77 | ug/L | 99 |
| 46) cyclohexane | 4.414 | 84 | 328359 | 100.24 | ug/L | 92 |
| 47) 1,1-dichloropropene | 4.462 | 75 | 284528 | 94.94 | ug/L | 96 |
| 48) carbon tetrachloride | 4.465 | 117 | 289895 | 98.37 | ug/L | 99 |
| 49) isopropyl acetate | 4.581 | 87 | 74584 | 100.43 | ug/L | 98 |
| 50) tert amyl alcohol | 4.558 | 55 | 102341 | 488.70 | ug/L | 99 |
| 53) tert-amyl methyl ether | 4.667 | 73 | 680808 | 96.07 | ug/L | 99 |
| 54) 2,2,4-trimethylpentane | 4.670 | 57 | 539004 | 95.30 | ug/L | 99 |
| 55) n-butyl alcohol | 4.946 | 56 | 705512 | 4599.46 | ug/L | 99 |
| 56) benzene | 4.609 | 78 | 796385 | 96.64 | ug/L | 98 |
| 57) heptane | 4.783 | 57 | 129998 | 101.14 | ug/L | 92 |
| 58) 1,2-dichloroethane | 4.635 | 62 | 298800 | 93.12 | ug/L | 100 |
| 59) trichloroethene | 5.078 | 95 | 235620 | 98.39 | ug/L | 97 |
| 60) ethyl acrylate | 5.094 | 55 | 372092 | 94.17 | ug/L | 98 |
| 61) 2-nitropropane | 5.630 | 41 | 104087 | 81.50 | ug/L | 92 |
| 62) 2-chloroethyl vinyl ether | 5.659 | 63 | 681465 | 483.87 | ug/L | 97 |
| 63) methyl methacrylate | 5.274 | 100 | 88207 | 94.95 | ug/L | 95 |
| 64) 1,2-dichloropropane | 5.277 | 63 | 203891 | 97.34 | ug/L | 100 |
| 65) methylcyclohexane | 5.267 | 83 | 375507 | 97.19 | ug/L | 97 |
| 66) dibromomethane | 5.347 | 93 | 149342 | 99.74 | ug/L | 98 |
| 67) bromodichloromethane | 5.466 | 83 | 337358 | 98.81 | ug/L | 94 |
| 68) cis-1,3-dichloropropene | 5.806 | 75 | 399432 | 98.07 | ug/L | 97 |
| 69) epichlorohydrin | 5.713 | 57 | 215179 | 501.85 | ug/L | 98 |
| 70) 4-methyl-2-pentanone | 5.903 | 58 | 516748 | 373.07 | ug/L | 94 |
| 71) 3-methyl-1-butanol | 5.925 | 70 | 286823 | 1792.13 | ug/L | 91 |
| 74) toluene | 6.086 | 92 | 547151 | 98.48 | ug/L | 98 |
| 75) trans-1,3-dichloropropene | 6.256 | 75 | 384686 | 96.92 | ug/L | 95 |
| 76) ethyl methacrylate | 6.275 | 69 | 365980 | 94.74 | ug/L | 99 |
| 77) 1,1,2-trichloroethane | 6.429 | 83 | 192490 | 97.34 | ug/L | 96 |
| 78) 2-hexanone | 6.589 | 58 | 530794 | 365.04 | ug/L | 96 |
| 79) tetrachloroethene | 6.522 | 166 | 221795 | 98.74 | ug/L | 97 |
| 80) 1,3-dichloropropane | 6.573 | 76 | 361898 | 95.44 | ug/L | 98 |
| 81) butyl acetate | 6.673 | 56 | 194823 | 95.73 | ug/L | 94 |
| 82) dibromochloromethane | 6.763 | 129 | 246706 | 98.85 | ug/L | 99 |
| 83) 1,2-dibromoethane | 6.878 | 107 | 249537 | 96.96 | ug/L | 97 |
| 84) n-butyl ether | 7.343 | 57 | 817743 | 95.63 | ug/L | 99 |
| 85) chlorobenzene | 7.305 | 112 | 595177 | 99.53 | ug/L | 98 |
| 86) 1,1,1,2-tetrachloroethane | 7.372 | 131 | 194452 | 95.61 | ug/L | 97 |
| 87) ethylbenzene | 7.379 | 91 | 909100 | 93.49 | ug/L | 98 |
| 88) m,p-xylene | 7.491 | 106 | 741758 | 191.47 | ug/L | 94 |
| 89) o-xylene | 7.847 | 106 | 393079 | 96.41 | ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342976.D
Acq On : 15 Jun 2022 7:32 pm
Operator : BridgetK
Sample : ic10355-100
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 16 08:28:47 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

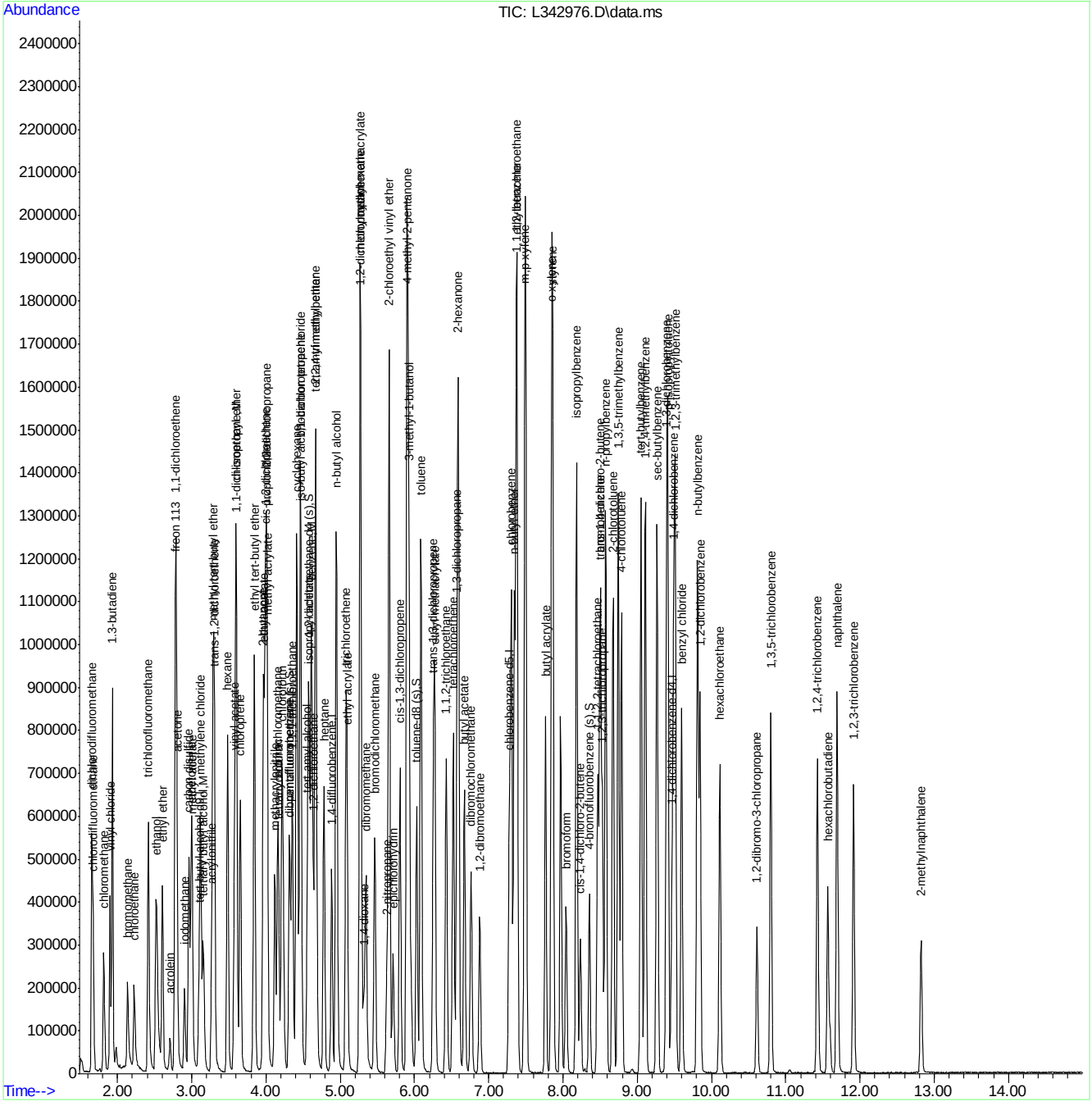
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 90) butyl acrylate | 7.767 | 55 | 488981 | 96.22 | ug/L | | 98 |
| 91) styrene | 7.863 | 104 | 620546 | 95.67 | ug/L | | 98 |
| 92) bromoform | 8.046 | 173 | 181496 | 98.59 | ug/L | | 98 |
| 93) isopropylbenzene | 8.184 | 105 | 975796 | 96.00 | ug/L | | 99 |
| 94) cis-1,4-dichloro-2-butene | 8.236 | 88 | 87729 | 112.17 | ug/L | | 88 |
| 97) bromobenzene | 8.499 | 156 | 224870 | 99.46 | ug/L | | 96 |
| 98) 1,1,2,2-tetrachloroethane | 8.470 | 83 | 346102 | 98.28 | ug/L | | 97 |
| 99) trans-1,4-dichloro-2-b... | 8.505 | 53 | 62013 | 111.30 | ug/L | | 87 |
| 100) 1,2,3-trichloropropane | 8.528 | 110 | 99496 | 94.91 | ug/L | | 100 |
| 101) n-propylbenzene | 8.576 | 91 | 1047914 | 96.73 | ug/L | | 96 |
| 102) 2-chlorotoluene | 8.675 | 126 | 215980 | 100.70 | ug/L | # | 86 |
| 103) 4-chlorotoluene | 8.791 | 126 | 213021 | 101.56 | ug/L | | 88 |
| 104) 1,3,5-trimethylbenzene | 8.746 | 105 | 756087 | 96.35 | ug/L | | 95 |
| 105) tert-butylbenzene | 9.051 | 119 | 663858 | 98.44 | ug/L | | 96 |
| 106) 1,2,4-trimethylbenzene | 9.108 | 105 | 774369 | 96.80 | ug/L | | 97 |
| 107) sec-butylbenzene | 9.269 | 105 | 937049 | 98.06 | ug/L | | 98 |
| 108) 1,3-dichlorobenzene | 9.397 | 146 | 405173 | 99.87 | ug/L | | 98 |
| 109) p-isopropyltoluene | 9.413 | 119 | 726021 | 96.26 | ug/L | | 98 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 385362 | 98.40 | ug/L | | 99 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 736622 | 96.23 | ug/L | | 98 |
| 112) 1,2-dichlorobenzene | 9.846 | 146 | 372599 | 98.35 | ug/L | | 97 |
| 113) n-butylbenzene | 9.811 | 92 | 401398 | 101.13 | ug/L | | 97 |
| 114) 1,2-dibromo-3-chloropr... | 10.610 | 157 | 98827 | 105.23 | ug/L | | 94 |
| 115) 1,3,5-trichlorobenzene | 10.799 | 180 | 272784 | 99.30 | ug/L | | 93 |
| 116) 1,2,4-trichlorobenzene | 11.428 | 180 | 234498 | 101.19 | ug/L | | 98 |
| 117) hexachlorobutadiene | 11.566 | 225 | 78448 | 91.50 | ug/L | | 87 |
| 118) naphthalene | 11.691 | 128 | 734252 | 100.43 | ug/L | | 98 |
| 119) 1,2,3-trichlorobenzene | 11.913 | 180 | 208707 | 104.31 | ug/L | | 94 |
| 120) hexachloroethane | 10.113 | 119 | 163995 | 104.54 | ug/L | | 100 |
| 121) benzyl chloride | 9.599 | 91 | 654250 | 96.55 | ug/L | | 98 |
| 122) 2-methylnaphthalene | 12.824 | 142 | 159652 | 56.72 | ug/L | | 94 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342976.D
Acq On : 15 Jun 2022 7:32 pm
Operator : BridgetK
Sample : ic10355-100
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 16 08:28:47 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342977.D
Acq On : 15 Jun 2022 7:56 pm
Operator : BridgetK
Sample : ic10355-200
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 16 15:16:06 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.108 | 65 | 217862 | 500.00 | ug/L | | 0.01 |
| 5) pentafluorobenzene | 4.311 | 168 | 219715 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.879 | 114 | 334098 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 316615 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 114201 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.321 | 113 | 97720 | 48.53 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.06% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.574 | 65 | 105632 | 44.32 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 88.64% | | | | |
| 73) toluene-d8 (s) | 6.028 | 98 | 410289 | 49.38 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 98.76% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 152680 | 51.81 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 103.62% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.322 | 88 | 272447 | 5219.34 | ug/L | | 95 |
| 3) ethanol | 2.530 | 45 | 845654 | 16817.90 | ug/L | | 96 |
| 4) tertiary butyl alcohol | 3.166 | 59 | 590093 | 970.81 | ug/L | | 95 |
| 6) chlorodifluoromethane | 1.674 | 51 | 426703 | 177.28 | ug/L | # | 100 |
| 7) dichlorodifluoromethane | 1.654 | 85 | 689201 | 192.05 | ug/L | | 97 |
| 8) chloromethane | 1.818 | 50 | 447308 | 189.00 | ug/L | | 96 |
| 9) vinyl chloride | 1.901 | 62 | 530435 | 184.64 | ug/L | | 97 |
| 10) 1.3-butadiene | 1.930 | 54 | 447255 | 152.68 | ug/L | | 98 |
| 12) chloroethane | 2.216 | 64 | 267488 | 163.73 | ug/L | | 98 |
| 13) trichlorofluoromethane | 2.408 | 101 | 751664 | 183.40 | ug/L | | 99 |
| 14) ethyl ether | 2.601 | 74 | 278095 | 179.90 | ug/L | | 87 |
| 15) acrolein | 2.707 | 56 | 105577 | 204.43 | ug/L | | 95 |
| 16) freon 113 | 2.771 | 151 | 296662 | 177.43 | ug/L | | 97 |
| 17) 1,1-dichloroethene | 2.781 | 96 | 352118 | 172.74 | ug/L | | 96 |
| 18) acetone | 2.800 | 58 | 249239 | 703.47 | ug/L | | 87 |
| 19) acetonitrile | 2.996 | 40 | 415396 | 1819.25 | ug/L | | 100 |
| 20) iodomethane | 2.899 | 142 | 365927 | 192.58 | ug/L | | 96 |
| 22) carbon disulfide | 2.957 | 76 | 1083905 | 181.30 | ug/L | | 98 |
| 23) methylene chloride | 3.118 | 84 | 413072 | 184.39 | ug/L | | 94 |
| 24) methyl acetate | 3.002 | 74 | 127925 | 181.31 | ug/L | | 98 |
| 25) methyl tert butyl ether | 3.284 | 73 | 1280045 | 164.87 | ug/L | | 97 |
| 26) trans-1,2-dichloroethene | 3.300 | 96 | 382422 | 177.26 | ug/L | | 97 |
| 27) hexane | 3.477 | 57 | 555444 | 181.69 | ug/L | | 99 |
| 28) di-isopropyl ether | 3.592 | 45 | 1026290 | 164.59 | ug/L | | 92 |
| 29) ethyl tert-butyl ether | 3.840 | 59 | 1275461 | 172.73 | ug/L | | 92 |
| 30) 2-butanone | 3.961 | 72 | 401968 | 745.74 | ug/L | # | 85 |
| 31) 1,1-dichloroethane | 3.599 | 63 | 655058 | 169.71 | ug/L | | 99 |
| 32) chloroprene | 3.650 | 53 | 543585 | 178.75 | ug/L | | 95 |
| 33) acrylonitrile | 3.265 | 53 | 249132 | 196.54 | ug/L | | 94 |
| 34) vinyl acetate | 3.570 | 86 | 124691 | 176.57 | ug/L | # | 82 |
| 35) ethyl acetate | 3.971 | 45 | 96148 | 186.74 | ug/L | # | 46 |
| 36) 2,2-dichloropropane | 3.997 | 77 | 580981 | 163.11 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342977.D
Acq On : 15 Jun 2022 7:56 pm
Operator : BridgetK
Sample : ic10355-200
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 16 15:16:06 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 37) cis-1,2-dichloroethene | 3.987 | 96 | 413498 | 172.55 | ug/L | | 98 |
| 38) propionitrile | 4.013 | 54 | 872418 | 1712.77 | ug/L | | 83 |
| 39) methyl acrylate | 4.016 | 85 | 110614 | 180.76 | ug/L | # | 91 |
| 40) bromochloromethane | 4.154 | 128 | 193365 | 176.89 | ug/L | | 95 |
| 41) tetrahydrofuran | 4.167 | 72 | 119900 | 192.53 | ug/L | | 97 |
| 42) chloroform | 4.209 | 83 | 721705 | 172.23 | ug/L | | 96 |
| 44) methacrylonitrile | 4.119 | 67 | 284474 | 194.02 | ug/L | | 93 |
| 45) 1,1,1-trichloroethane | 4.353 | 97 | 685023 | 181.99 | ug/L | | 98 |
| 46) cyclohexane | 4.408 | 84 | 618696 | 188.20 | ug/L | | 84 |
| 47) 1,1-dichloropropene | 4.456 | 75 | 532049 | 176.91 | ug/L | | 95 |
| 48) carbon tetrachloride | 4.465 | 117 | 529650 | 179.08 | ug/L | | 100 |
| 49) isopropyl acetate | 4.574 | 87 | 141770 | 190.22 | ug/L | | 96 |
| 53) tert-amyl methyl ether | 4.664 | 73 | 1213199 | 170.41 | ug/L | | 96 |
| 54) 2,2,4-trimethylpentane | 4.667 | 57 | 991638 | 174.52 | ug/L | | 98 |
| 55) n-butyl alcohol | 4.953 | 56 | 1312831 | 8519.34 | ug/L | | 99 |
| 56) benzene | 4.606 | 78 | 1422244 | 171.79 | ug/L | | 95 |
| 57) heptane | 4.777 | 57 | 247995 | 192.06 | ug/L | | 94 |
| 58) 1,2-dichloroethane | 4.629 | 62 | 540717 | 167.73 | ug/L | | 98 |
| 59) trichloroethene | 5.072 | 95 | 442530 | 183.94 | ug/L | | 98 |
| 60) ethyl acrylate | 5.094 | 55 | 680020 | 171.32 | ug/L | | 98 |
| 61) 2-nitropropane | 5.624 | 41 | 207959 | 162.09 | ug/L | | 97 |
| 62) 2-chloroethyl vinyl ether | 5.656 | 63 | 1251658 | 884.64 | ug/L | | 94 |
| 63) methyl methacrylate | 5.274 | 100 | 169905 | 182.06 | ug/L | # | 74 |
| 64) 1,2-dichloropropane | 5.274 | 63 | 373670 | 177.57 | ug/L | | 98 |
| 65) methylcyclohexane | 5.261 | 83 | 698271 | 179.90 | ug/L | | 97 |
| 66) dibromomethane | 5.345 | 93 | 275658 | 183.26 | ug/L | | 95 |
| 67) bromodichloromethane | 5.460 | 83 | 621825 | 181.29 | ug/L | | 97 |
| 68) cis-1,3-dichloropropene | 5.803 | 75 | 741907 | 181.31 | ug/L | | 97 |
| 69) epichlorohydrin | 5.714 | 57 | 414673 | 962.67 | ug/L | | 95 |
| 70) 4-methyl-2-pentanone | 5.900 | 58 | 936134 | 672.74 | ug/L | # | 81 |
| 71) 3-methyl-1-butanol | 5.929 | 70 | 542476 | 3373.90 | ug/L | | 98 |
| 74) toluene | 6.086 | 92 | 1011723 | 180.71 | ug/L | | 95 |
| 75) trans-1,3-dichloropropene | 6.256 | 75 | 714561 | 178.67 | ug/L | | 95 |
| 76) ethyl methacrylate | 6.275 | 69 | 665455 | 170.94 | ug/L | | 98 |
| 77) 1,1,2-trichloroethane | 6.426 | 83 | 360547 | 180.93 | ug/L | | 99 |
| 78) 2-hexanone | 6.590 | 58 | 940358 | 641.78 | ug/L | | 92 |
| 79) tetrachloroethene | 6.519 | 166 | 425716 | 188.08 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 6.570 | 76 | 661214 | 173.05 | ug/L | | 100 |
| 81) butyl acetate | 6.670 | 56 | 369348 | 180.10 | ug/L | | 97 |
| 82) dibromochloromethane | 6.760 | 129 | 459749 | 182.81 | ug/L | | 96 |
| 83) 1,2-dibromoethane | 6.875 | 107 | 472531 | 182.20 | ug/L | | 99 |
| 84) n-butyl ether | 7.344 | 57 | 1436555 | 166.72 | ug/L | | 95 |
| 85) chlorobenzene | 7.302 | 112 | 1090365 | 180.95 | ug/L | | 99 |
| 86) 1,1,1,2-tetrachloroethane | 7.373 | 131 | 351173 | 171.36 | ug/L | | 98 |
| 87) ethylbenzene | 7.376 | 91 | 1580938 | 161.34 | ug/L | | 94 |
| 88) m,p-xylene | 7.491 | 106 | 1333999 | 341.72 | ug/L | | 88 |
| 89) o-xylene | 7.847 | 106 | 723298 | 176.06 | ug/L | | 87 |
| 90) butyl acrylate | 7.764 | 55 | 878105 | 171.48 | ug/L | | 94 |
| 91) styrene | 7.864 | 104 | 1097016 | 167.84 | ug/L | | 99 |
| 92) bromoform | 8.043 | 173 | 342363 | 184.55 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342977.D
Acq On : 15 Jun 2022 7:56 pm
Operator : BridgetK
Sample : ic10355-200
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 16 15:16:06 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration

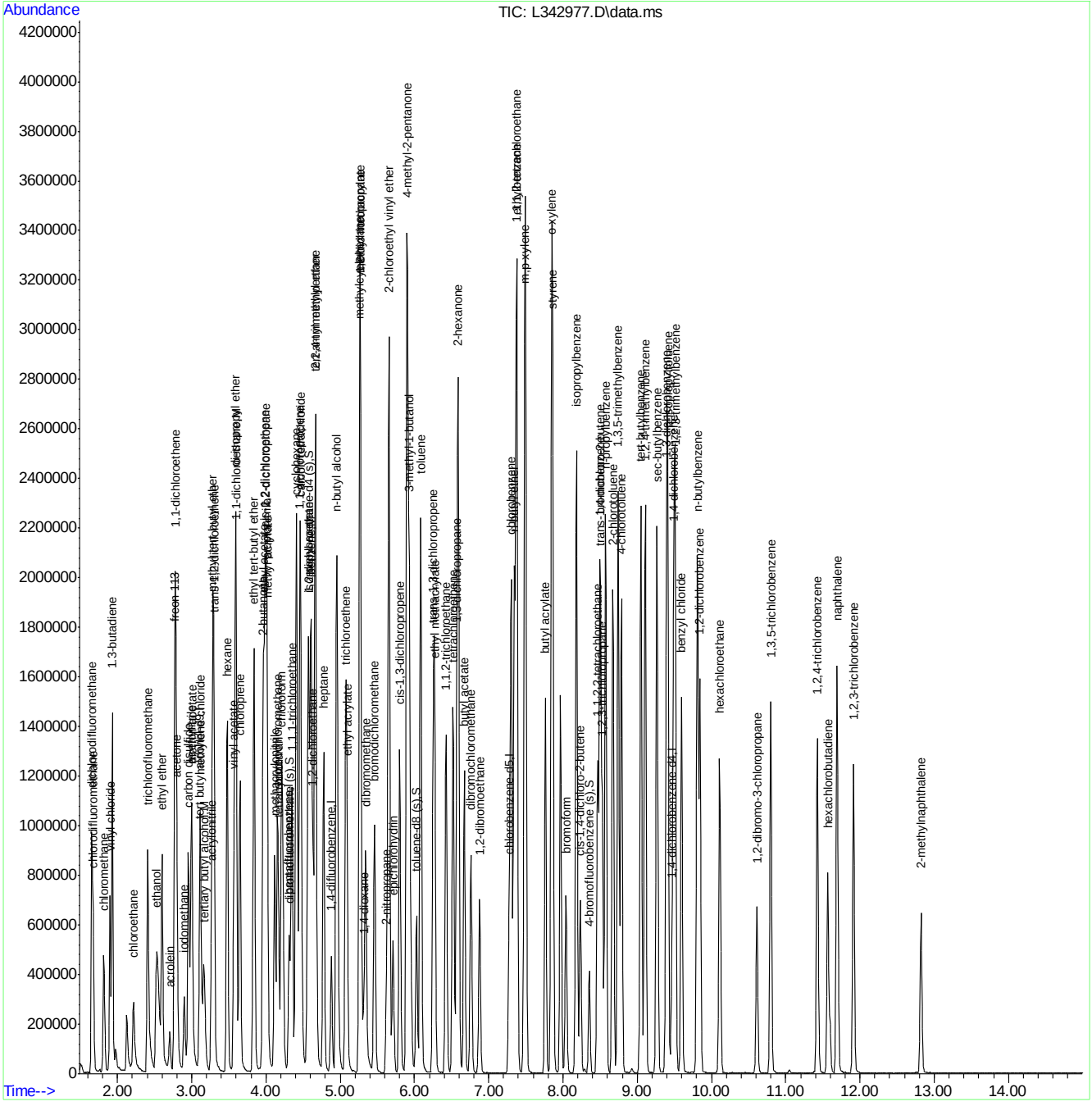
| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 93) | isopropylbenzene | 8.181 | 105 | 1705972 | 166.56 | ug/L | | 98 |
| 94) | cis-1,4-dichloro-2-butene | 8.236 | 88 | 194710 | 247.05 | ug/L | | 89 |
| 97) | bromobenzene | 8.499 | 156 | 406393 | 184.46 | ug/L | | 95 |
| 98) | 1,1,2,2-tetrachloroethane | 8.467 | 83 | 631905 | 184.14 | ug/L | | 99 |
| 99) | trans-1,4-dichloro-2-b... | 8.505 | 53 | 127822 | 235.42 | ug/L | # | 83 |
| 100) | 1,2,3-trichloropropane | 8.528 | 110 | 185454 | 181.54 | ug/L | | 98 |
| 101) | n-propylbenzene | 8.576 | 91 | 1800355 | 170.55 | ug/L | | 92 |
| 102) | 2-chlorotoluene | 8.672 | 126 | 393998 | 188.51 | ug/L | # | 87 |
| 103) | 4-chlorotoluene | 8.788 | 126 | 389143 | 190.39 | ug/L | # | 81 |
| 104) | 1,3,5-trimethylbenzene | 8.743 | 105 | 1322434 | 172.93 | ug/L | | 93 |
| 105) | tert-butylbenzene | 9.051 | 119 | 1174200 | 178.68 | ug/L | | 95 |
| 106) | 1,2,4-trimethylbenzene | 9.109 | 105 | 1326584 | 170.18 | ug/L | | 94 |
| 107) | sec-butylbenzene | 9.266 | 105 | 1617594 | 173.71 | ug/L | | 94 |
| 108) | 1,3-dichlorobenzene | 9.394 | 146 | 729508 | 184.52 | ug/L | | 96 |
| 109) | p-isopropyltoluene | 9.413 | 119 | 1238349 | 168.50 | ug/L | | 95 |
| 110) | 1,4-dichlorobenzene | 9.490 | 146 | 697766 | 182.83 | ug/L | | 97 |
| 111) | 1,2,3-trimethylbenzene | 9.513 | 105 | 1264624 | 169.53 | ug/L | | 93 |
| 112) | 1,2-dichlorobenzene | 9.843 | 146 | 671020 | 181.75 | ug/L | | 98 |
| 113) | n-butylbenzene | 9.811 | 92 | 713410 | 184.44 | ug/L | | 94 |
| 114) | 1,2-dibromo-3-chloropr... | 10.614 | 157 | 199540 | 218.03 | ug/L | | 97 |
| 115) | 1,3,5-trichlorobenzene | 10.800 | 180 | 497760 | 185.95 | ug/L | | 95 |
| 116) | 1,2,4-trichlorobenzene | 11.425 | 180 | 442234 | 195.84 | ug/L | | 98 |
| 117) | hexachlorobutadiene | 11.567 | 225 | 148468 | 177.71 | ug/L | | 83 |
| 118) | naphthalene | 11.692 | 128 | 1372763 | 192.68 | ug/L | | 95 |
| 119) | 1,2,3-trichlorobenzene | 11.913 | 180 | 394181 | 202.17 | ug/L | | 95 |
| 120) | hexachloroethane | 10.110 | 119 | 297747 | 194.78 | ug/L | | 96 |
| 121) | benzyl chloride | 9.596 | 91 | 1173936 | 177.78 | ug/L | | 97 |
| 122) | 2-methylnaphthalene | 12.824 | 142 | 337429 | 123.03 | ug/L | | 95 |

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

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342977.D
Acq On : 15 Jun 2022 7:56 pm
Operator : BridgetK
Sample : ic10355-200
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 16 15:16:06 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 16 08:28:06 2022
Response via : Initial Calibration



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342980.D
Acq On : 15 Jun 2022 9:06 pm
Operator : BridgetK
Sample : icv10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 17 18:02:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Jun 17 18:01:43 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.095 | 65 | 232014 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.314 | 168 | 218400 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.886 | 114 | 332458 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 310136 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 116267 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.327 | 113 | 99014 | 50.19 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.38% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.577 | 65 | 114947 | 47.37 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 94.74% | | | |
| 73) toluene-d8 (s) | 6.031 | 98 | 403676 | 47.29 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.58% | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 151835 | 50.13 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.26% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.319 | 88 | 75726 | 1251.73 | ug/L | 91 |
| 3) ethanol | 2.517 | 45 | 300298 | 5184.79 | ug/L | 100 |
| 4) tertiary butyl alcohol | 3.153 | 59 | 169230 | 237.98 | ug/L | 98 |
| 7) dichlorodifluoromethane | 1.654 | 85 | 227546 | 63.82 | ug/L | 99 |
| 8) chloromethane | 1.818 | 50 | 138069 | 57.93 | ug/L | 99 |
| 9) vinyl chloride | 1.901 | 62 | 170762 | 58.09 | ug/L | 98 |
| 10) 1,3-butadiene | 1.933 | 54 | 173644 | 60.09 | ug/L | 99 |
| 11) bromomethane | 2.148 | 96 | 78757 | 64.34 | ug/L | 95 |
| 12) chloroethane | 2.235 | 64 | 95932 | 55.80 | ug/L | 99 |
| 13) trichlorofluoromethane | 2.421 | 101 | 233259 | 56.74 | ug/L | 99 |
| 14) ethyl ether | 2.607 | 74 | 77147 | 53.71 | ug/L | 98 |
| 15) acrolein | 2.713 | 56 | 19522 | 37.43 | ug/L | 90 |
| 16) freon 113 | 2.784 | 151 | 86784 | 53.62 | ug/L | 98 |
| 17) 1,1-dichloroethene | 2.790 | 96 | 104519 | 51.84 | ug/L | 99 |
| 18) acetone | 2.800 | 58 | 67510 | 190.59 | ug/L | 97 |
| 20) iodomethane | 2.906 | 142 | 83750 | 45.52 | ug/L | 94 |
| 21) iso-butyl alcohol | 4.465 | 43 | 103818 | 449.71 | ug/L | 98 |
| 22) carbon disulfide | 2.963 | 76 | 321109 | 51.76 | ug/L | 99 |
| 23) methylene chloride | 3.121 | 84 | 114453 | 48.76 | ug/L | 97 |
| 24) methyl acetate | 3.005 | 74 | 35891 | 50.49 | ug/L | 93 |
| 25) methyl tert butyl ether | 3.288 | 73 | 396518 | 51.95 | ug/L | 98 |
| 26) trans-1,2-dichloroethene | 3.307 | 96 | 112718 | 51.67 | ug/L | 95 |
| 27) hexane | 3.486 | 57 | 167686 | 54.66 | ug/L | 98 |
| 28) di-isopropyl ether | 3.596 | 45 | 310477 | 50.12 | ug/L | 96 |
| 29) ethyl tert-butyl ether | 3.843 | 59 | 355794 | 49.02 | ug/L | 98 |
| 30) 2-butanone | 3.961 | 72 | 115015 | 211.38 | ug/L # | 86 |
| 31) 1,1-dichloroethane | 3.605 | 63 | 195846 | 51.13 | ug/L | 95 |
| 32) chloroprene | 3.657 | 53 | 166962 | 53.59 | ug/L | 99 |
| 34) vinyl acetate | 3.576 | 86 | 32197 | 48.73 | ug/L | 97 |
| 35) ethyl acetate | 3.974 | 45 | 26336 | 47.67 | ug/L # | 58 |
| 36) 2,2-dichloropropane | 4.003 | 77 | 182558 | 49.00 | ug/L | 99 |
| 37) cis-1,2-dichloroethene | 3.993 | 96 | 122984 | 49.84 | ug/L | 93 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342980.D
Acq On : 15 Jun 2022 9:06 pm
Operator : BridgetK
Sample : icv10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 17 18:02:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Jun 17 18:01:43 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 38) propionitrile | 4.013 | 54 | 247490 | 475.92 | ug/L | | 97 |
| 39) methyl acrylate | 4.016 | 85 | 30117 | 46.98 | ug/L | # | 77 |
| 40) bromochloromethane | 4.160 | 128 | 56204 | 52.28 | ug/L | | 91 |
| 41) tetrahydrofuran | 4.167 | 72 | 31482 | 51.78 | ug/L | | 95 |
| 42) chloroform | 4.212 | 83 | 213985 | 48.78 | ug/L | | 97 |
| 44) methacrylonitrile | 4.119 | 67 | 75823 | 49.70 | ug/L | | 93 |
| 45) 1,1,1-trichloroethane | 4.353 | 97 | 193673 | 51.51 | ug/L | | 96 |
| 46) cyclohexane | 4.414 | 84 | 183102 | 52.91 | ug/L | | 94 |
| 47) 1,1-dichloropropene | 4.462 | 75 | 157773 | 52.53 | ug/L | | 97 |
| 48) carbon tetrachloride | 4.465 | 117 | 157187 | 50.44 | ug/L | | 100 |
| 49) isopropyl acetate | 4.581 | 87 | 39509 | 50.67 | ug/L | | 100 |
| 50) tert amyl alcohol | 4.558 | 55 | 54327 | 219.91 | ug/L | | 92 |
| 53) tert-amyl methyl ether | 4.667 | 73 | 344226 | 46.50 | ug/L | | 99 |
| 54) 2,2,4-trimethylpentane | 4.671 | 57 | 287414 | 48.85 | ug/L | | 98 |
| 55) n-butyl alcohol | 4.943 | 56 | 381773 | 2316.24 | ug/L | | 99 |
| 56) benzene | 4.610 | 78 | 438563 | 50.67 | ug/L | | 99 |
| 57) heptane | 4.783 | 57 | 69989 | 51.57 | ug/L | | 91 |
| 58) 1,2-dichloroethane | 4.635 | 62 | 159607 | 48.86 | ug/L | | 98 |
| 59) trichloroethene | 5.078 | 95 | 123912 | 50.62 | ug/L | | 98 |
| 60) ethyl acrylate | 5.094 | 55 | 190753 | 47.02 | ug/L | | 98 |
| 61) 2-nitropropane | 5.627 | 41 | 57386 | 48.34 | ug/L | | 98 |
| 62) 2-chloroethyl vinyl ether | 5.659 | 63 | 392152 | 276.73 | ug/L | | 98 |
| 63) methyl methacrylate | 5.277 | 100 | 45315 | 47.95 | ug/L | | 93 |
| 64) 1,2-dichloropropane | 5.277 | 63 | 102627 | 48.06 | ug/L | | 99 |
| 65) methylcyclohexane | 5.267 | 83 | 197430 | 51.21 | ug/L | | 98 |
| 66) dibromomethane | 5.348 | 93 | 76466 | 48.58 | ug/L | | 99 |
| 67) bromodichloromethane | 5.466 | 83 | 175939 | 49.05 | ug/L | | 96 |
| 68) cis-1,3-dichloropropene | 5.803 | 75 | 202450 | 50.32 | ug/L | | 98 |
| 69) epichlorohydrin | 5.713 | 57 | 109384 | 235.88 | ug/L | | 96 |
| 70) 4-methyl-2-pentanone | 5.900 | 58 | 278751 | 187.74 | ug/L | | 100 |
| 71) 3-methyl-1-butanol | 5.922 | 70 | 163600 | 900.07 | ug/L | | 94 |
| 74) toluene | 6.089 | 92 | 284201 | 48.80 | ug/L | | 96 |
| 75) trans-1,3-dichloropropene | 6.259 | 75 | 197008 | 48.87 | ug/L | | 96 |
| 76) ethyl methacrylate | 6.275 | 69 | 193653 | 47.72 | ug/L | | 99 |
| 77) 1,1,2-trichloroethane | 6.429 | 83 | 99405 | 49.00 | ug/L | | 97 |
| 78) 2-hexanone | 6.589 | 58 | 284176 | 176.13 | ug/L | | 99 |
| 80) 1,3-dichloropropane | 6.570 | 76 | 193265 | 49.01 | ug/L | | 97 |
| 81) butyl acetate | 6.670 | 56 | 104573 | 49.69 | ug/L | | 91 |
| 82) dibromochloromethane | 6.763 | 129 | 128344 | 47.33 | ug/L | | 97 |
| 83) 1,2-dibromoethane | 6.878 | 107 | 130545 | 48.04 | ug/L | | 99 |
| 84) n-butyl ether | 7.347 | 57 | 425534 | 48.94 | ug/L | | 99 |
| 85) chlorobenzene | 7.305 | 112 | 307670 | 51.70 | ug/L | | 100 |
| 86) 1,1,1,2-tetrachloroethane | 7.376 | 131 | 104743 | 48.61 | ug/L | | 96 |
| 87) ethylbenzene | 7.379 | 91 | 511359 | 50.01 | ug/L | | 100 |
| 88) m,p-xylene | 7.491 | 106 | 402745 | 98.27 | ug/L | | 97 |
| 89) o-xylene | 7.847 | 106 | 206817 | 50.45 | ug/L | | 97 |
| 90) butyl acrylate | 7.764 | 55 | 258041 | 49.17 | ug/L | | 99 |
| 91) styrene | 7.863 | 104 | 335580 | 50.48 | ug/L | | 96 |
| 92) bromoform | 8.043 | 173 | 94649 | 49.60 | ug/L | | 97 |
| 93) isopropylbenzene | 8.181 | 105 | 535338 | 52.02 | ug/L | | 95 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342980.D
Acq On : 15 Jun 2022 9:06 pm
Operator : BridgetK
Sample : icv10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 17 18:02:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Jun 17 18:01:43 2022
Response via : Initial Calibration

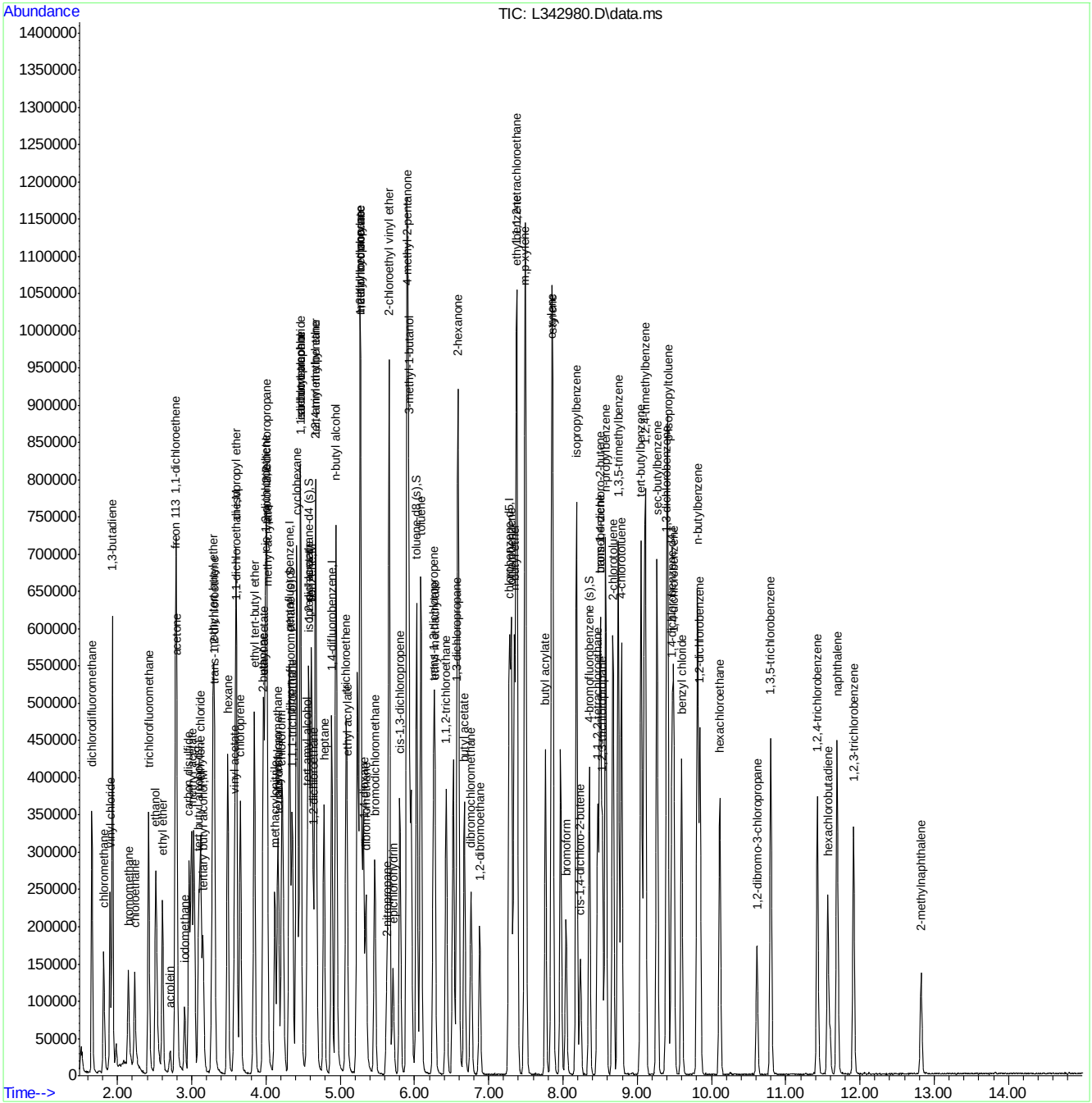
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 94) cis-1,4-dichloro-2-butene | 8.236 | 88 | 43682 | 57.08 | ug/L | | 92 |
| 97) bromobenzene | 8.502 | 156 | 118135 | 50.07 | ug/L | | 98 |
| 98) 1,1,2,2-tetrachloroethane | 8.467 | 83 | 181406 | 46.62 | ug/L | | 99 |
| 99) trans-1,4-dichloro-2-b... | 8.502 | 53 | 33056 | 59.77 | ug/L | # | 76 |
| 100) 1,2,3-trichloropropane | 8.531 | 110 | 53955 | 48.14 | ug/L | | 93 |
| 101) n-propylbenzene | 8.576 | 91 | 579118 | 52.00 | ug/L | | 99 |
| 102) 2-chlorotoluene | 8.675 | 126 | 113693 | 51.88 | ug/L | | 94 |
| 103) 4-chlorotoluene | 8.788 | 126 | 111764 | 50.87 | ug/L | | 94 |
| 104) 1,3,5-trimethylbenzene | 8.746 | 105 | 411358 | 51.52 | ug/L | | 98 |
| 105) tert-butylbenzene | 9.051 | 119 | 371090 | 55.45 | ug/L | | 97 |
| 106) 1,2,4-trimethylbenzene | 9.108 | 105 | 398351 | 48.74 | ug/L | | 98 |
| 107) sec-butylbenzene | 9.266 | 105 | 505018 | 52.79 | ug/L | | 99 |
| 108) 1,3-dichlorobenzene | 9.394 | 146 | 207375 | 52.04 | ug/L | | 100 |
| 109) p-isopropyltoluene | 9.413 | 119 | 394615 | 52.31 | ug/L | | 98 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 199256 | 51.00 | ug/L | | 96 |
| 112) 1,2-dichlorobenzene | 9.843 | 146 | 193057 | 49.24 | ug/L | | 98 |
| 113) n-butylbenzene | 9.811 | 92 | 210268 | 55.69 | ug/L | | 98 |
| 114) 1,2-dibromo-3-chloropr... | 10.617 | 157 | 49285 | 53.60 | ug/L | | 95 |
| 115) 1,3,5-trichlorobenzene | 10.796 | 180 | 142739 | 56.43 | ug/L | | 99 |
| 116) 1,2,4-trichlorobenzene | 11.429 | 180 | 117263 | 57.25 | ug/L | | 96 |
| 117) hexachlorobutadiene | 11.570 | 225 | 44801 | 54.62 | ug/L | | 92 |
| 118) naphthalene | 11.692 | 128 | 368327 | 53.25 | ug/L | | 97 |
| 119) 1,2,3-trichlorobenzene | 11.913 | 180 | 103114 | 55.60 | ug/L | | 99 |
| 120) hexachloroethane | 10.113 | 119 | 82948 | 53.03 | ug/L | | 96 |
| 121) benzyl chloride | 9.599 | 91 | 325673 | 48.23 | ug/L | | 97 |
| 122) 2-methylnaphthalene | 12.821 | 142 | 69405 | 28.02 | ug/L | | 91 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342980.D
Acq On : 15 Jun 2022 9:06 pm
Operator : BridgetK
Sample : icv10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 17 18:02:09 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Jun 17 18:01:43 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342981.D
Acq On : 15 Jun 2022 9:29 pm
Operator : BridgetK
Sample : icv10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 17 18:02:44 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Jun 17 18:01:43 2022
Response via : Initial Calibration

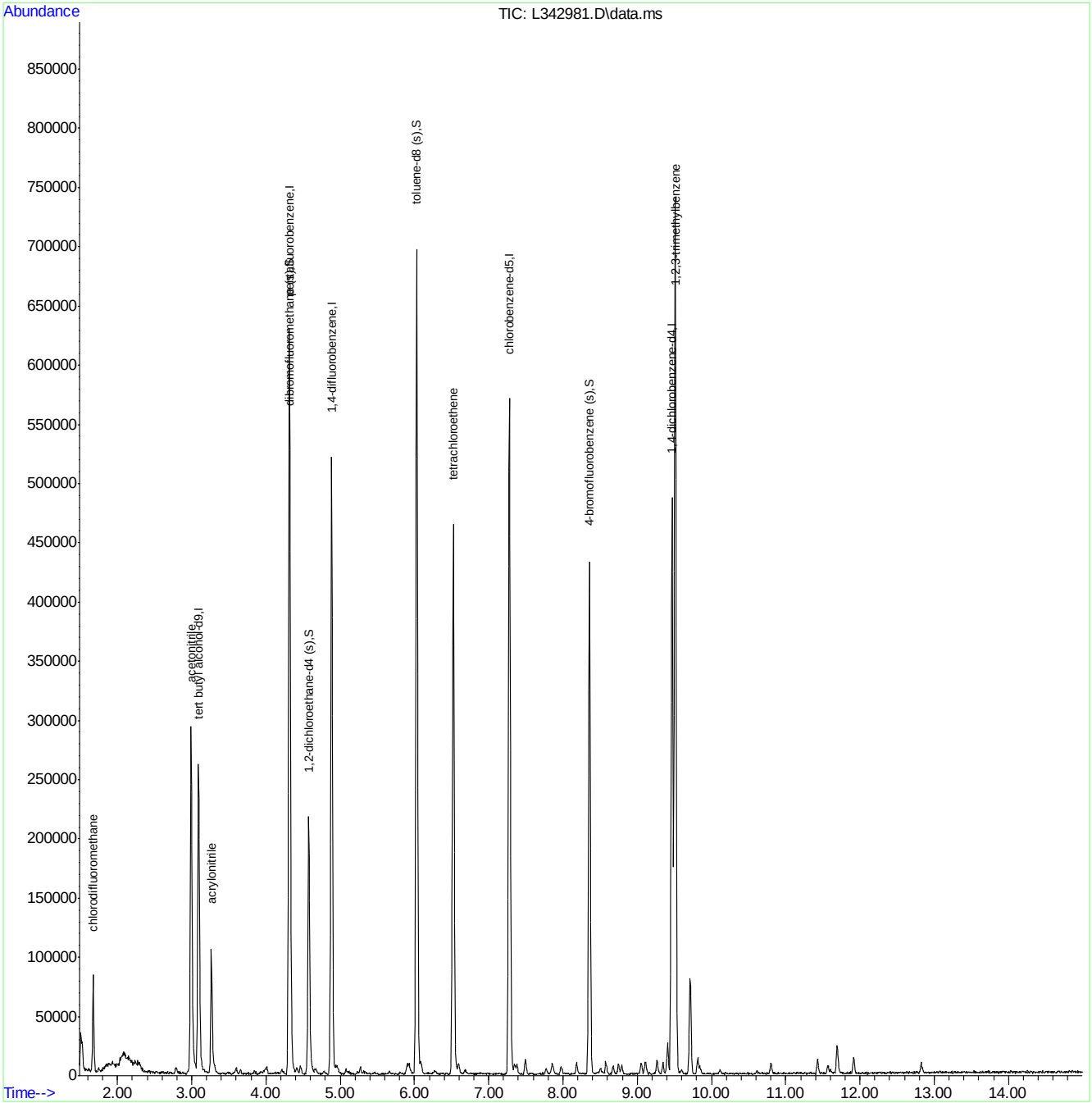
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.092 | 65 | 262183 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.314 | 168 | 250367 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.882 | 114 | 366353 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.279 | 117 | 315664 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 124313 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.324 | 113 | 112305 | 49.66 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.32% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.577 | 65 | 140164 | 52.42 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 104.84% | | | |
| 73) toluene-d8 (s) | 6.031 | 98 | 460692 | 53.02 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 106.04% | | | |
| 96) 4-bromofluorobenzene (s) | 8.354 | 95 | 163818 | 50.59 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 101.18% | | | |
| Target Compounds | | | | | | Qvalue |
| 6) chlorodifluoromethane | 1.673 | 51 | 64184 | 22.92 | ug/L # | 100 |
| 19) acetonitrile | 2.992 | 40 | 140050 | 532.32 | ug/L | 99 |
| 33) acrylonitrile | 3.265 | 53 | 66083 | 45.76 | ug/L | 97 |
| 79) tetrachloroethene | 6.525 | 166 | 126642 | 53.33 | ug/L | 97 |
| 111) 1,2,3-trimethylbenzene | 9.513 | 105 | 453175 | 54.65 | ug/L | 98 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342981.D
Acq On : 15 Jun 2022 9:29 pm
Operator : BridgetK
Sample : icv10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 17 18:02:44 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Jun 17 18:01:43 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342985.D
Acq On : 16 Jun 2022 10:06 am
Operator : BridgetK
Sample : icv10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 17 18:03:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Jun 17 18:01:43 2022
Response via : Initial Calibration

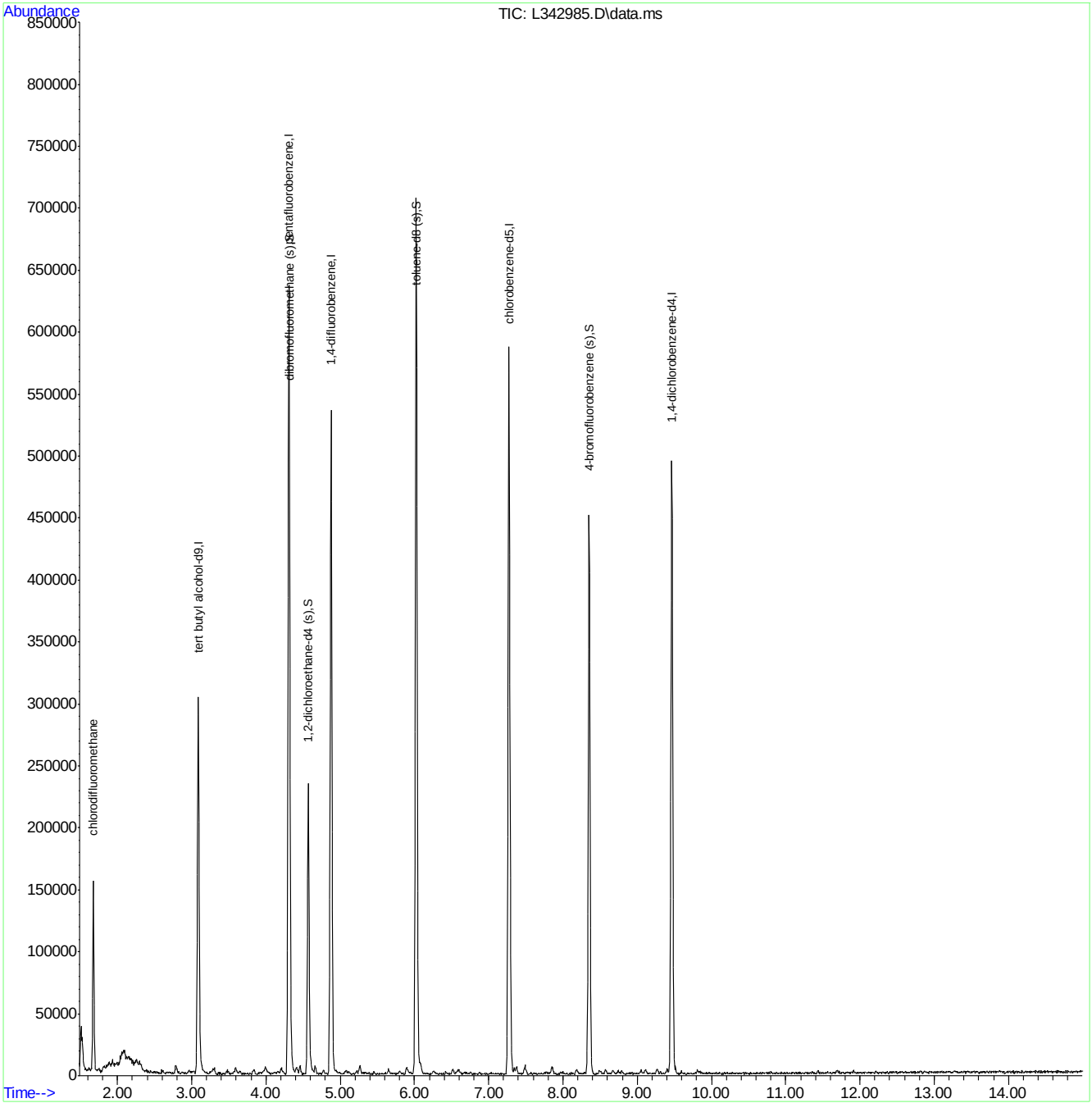
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) tert butyl alcohol-d9 | 3.088 | 65 | 298843 | 500.00 | ug/L | 0.00 |
| 5) pentafluorobenzene | 4.308 | 168 | 253371 | 50.00 | ug/L | 0.00 |
| 51) 1,4-difluorobenzene | 4.876 | 114 | 366335 | 50.00 | ug/L | 0.00 |
| 72) chlorobenzene-d5 | 7.276 | 117 | 322435 | 50.00 | ug/L | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 126497 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 43) dibromofluoromethane (s) | 4.317 | 113 | 115379 | 50.42 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.84% | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.571 | 65 | 144698 | 54.12 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 108.24% | | | |
| 73) toluene-d8 (s) | 6.025 | 98 | 466572 | 52.57 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 105.14% | | | |
| 96) 4-bromofluorobenzene (s) | 8.351 | 95 | 164461 | 49.91 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 99.82% | | | |
| Target Compounds | | | | | | Qvalue |
| 6) chlorodifluoromethane | 1.673 | 51 | 122930 | 43.39 | ug/L | # 97 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10355\
Data File : L342985.D
Acq On : 16 Jun 2022 10:06 am
Operator : BridgetK
Sample : icv10355-50
Misc : MS59602,VL10355,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 17 18:03:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Jun 17 18:01:43 2022
Response via : Initial Calibration




ML10355.M Tue Jun 21 15:33:09 2022 1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\vl10519-due today\
Data File : l347829.d
Acq On : 4 Oct 2022 10:21 am
Operator : nicoleh
Sample : cc10355-20 Inst : GCMSL
Misc : MS62669,VL10519,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 01:25:58 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) tert butyl alcohol-d9 | 3.085 | 65 | 160578 | 500.00 | ug/L | | 0.00 |
| 5) pentafluorobenzene | 4.305 | 168 | 233064 | 50.00 | ug/L | | 0.00 |
| 51) 1,4-difluorobenzene | 4.873 | 114 | 343670 | 50.00 | ug/L | | 0.00 |
| 72) chlorobenzene-d5 | 7.273 | 117 | 322965 | 50.00 | ug/L | | 0.00 |
| 95) 1,4-dichlorobenzene-d4 | 9.468 | 152 | 124033 | 50.00 | ug/L | | 0.00 |
| 123) pentafluorobenzene(a) | 4.305 | 168 | 232963 | 50.00 | ug/L | | 0.00 |
| 127) 1,4-dichlorobenzene-d4(a) | 9.468 | 152 | 124034 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 43) dibromofluoromethane (s) | 4.314 | 113 | 100650 | 47.81 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 95.62% | | | | |
| 52) 1,2-dichloroethane-d4 (s) | 4.568 | 65 | 111194 | 44.33 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 124 | | Recovery = 88.66% | | | | |
| 73) toluene-d8 (s) | 6.022 | 98 | 413287 | 46.49 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 92.98% | | | | |
| 96) 4-bromofluorobenzene (s) | 8.351 | 95 | 157400 | 48.71 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 97.42% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-dioxane | 5.303 | 88 | 6078 | 145.16 | ug/L | | 75 |
| 3) ethanol | 2.505 | 45 | 32604 | 813.35 | ug/L | | 89 |
| 4) tertiary butyl alcohol | 3.140 | 59 | 49551 | 100.68 | ug/L | | 96 |
| 6) chlorodifluoromethane | 1.677 | 51 | 71837 | 27.56 | ug/L | # | 89 |
| 7) dichlorodifluoromethane | 1.661 | 85 | 80669 | 21.20 | ug/L | | 98 |
| 8) chloromethane | 1.821 | 50 | 48697 | 19.15 | ug/L | | 96 |
| 9) vinyl chloride | 1.901 | 62 | 58517 | 18.65 | ug/L | | 95 |
| 10) 1,3-butadiene | 1.930 | 54 | 68583 | 22.24 | ug/L | | 95 |
| 11) bromomethane | 2.158 | 96 | 20879 | 15.98 | ug/L | | 96 |
| 12) chloroethane | 2.238 | 64 | 30969 | 16.88 | ug/L | | 97 |
| 13) trichlorofluoromethane | 2.418 | 101 | 90038 | 20.52 | ug/L | | 97 |
| 14) ethyl ether | 2.601 | 74 | 37375 | 24.39 | ug/L | | 84 |
| 15) acrolein | 2.704 | 56 | 14283 | 25.66 | ug/L | | 97 |
| 16) freon 113 | 2.774 | 151 | 44515 | 25.77 | ug/L | | 95 |
| 17) 1,1-dichloroethene | 2.787 | 96 | 50838 | 23.63 | ug/L | | 93 |
| 18) acetone | 2.793 | 58 | 32868 | 86.95 | ug/L | | 85 |
| 19) acetonitrile | 2.986 | 40 | 40542 | 165.54 | ug/L | | 87 |
| 20) iodomethane | 2.899 | 142 | 27791 | 15.23 | ug/L | | 96 |
| 21) iso-butyl alcohol | 4.452 | 43 | 32108 | 130.33 | ug/L | | 96 |
| 22) carbon disulfide | 2.960 | 76 | 144240 | 21.79 | ug/L | | 95 |
| 23) methylene chloride | 3.111 | 84 | 55544 | 22.17 | ug/L | | 92 |
| 24) methyl acetate | 3.005 | 74 | 15582 | 20.54 | ug/L | # | 77 |
| 25) methyl tert butyl ether | 3.281 | 73 | 167717 | 20.59 | ug/L | | 94 |
| 26) trans-1,2-dichloroethene | 3.297 | 96 | 52582 | 22.59 | ug/L | | 92 |
| 27) hexane | 3.477 | 57 | 78012 | 23.83 | ug/L | | 97 |
| 28) di-isopropyl ether | 3.586 | 45 | 158798 | 24.02 | ug/L | | 92 |
| 29) ethyl tert-butyl ether | 3.830 | 59 | 174882 | 22.58 | ug/L | | 93 |
| 30) 2-butanone | 3.952 | 72 | 44363 | 76.40 | ug/L | | 98 |
| 31) 1,1-dichloroethane | 3.592 | 63 | 93261 | 22.82 | ug/L | | 96 |
| 32) chloroprene | 3.647 | 53 | 75715 | 22.77 | ug/L | | 93 |
| 33) acrylonitrile | 3.262 | 53 | 30803 | 22.91 | ug/L | | 96 |
| 34) vinyl acetate | 3.567 | 86 | 15931 | 22.59 | ug/L | | 97 |
| 35) ethyl acetate | 3.965 | 45 | 13119 | 22.25 | ug/L | # | 61 |
| 36) 2,2-dichloropropane | 3.990 | 77 | 77445 | 19.48 | ug/L | | 93 |
| 37) cis-1,2-dichloroethene | 3.981 | 96 | 55589 | 21.11 | ug/L | | 89 |
| 38) propionitrile | 3.997 | 54 | 114869 | 206.99 | ug/L | | 89 |
| 39) methyl acrylate | 4.006 | 85 | 14756 | 21.57 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\vl10519-due today\
Data File : l347829.d
Acq On : 4 Oct 2022 10:21 am
Operator : nicoleh
Sample : cc10355-20 Inst : GCMSL
Misc : MS62669,VL10519,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 01:25:58 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 40) bromochloromethane | 4.144 | 128 | 25049 | 21.83 | ug/L | | 96 |
| 41) tetrahydrofuran | 4.164 | 72 | 12774 | 19.69 | ug/L | | 91 |
| 42) chloroform | 4.202 | 83 | 93339 | 19.94 | ug/L | | 97 |
| 44) methacrylonitrile | 4.106 | 67 | 34524 | 21.21 | ug/L | | 90 |
| 45) 1,1,1-trichloroethane | 4.343 | 97 | 75794 | 18.89 | ug/L | | 97 |
| 46) cyclohexane | 4.401 | 84 | 73174 | 19.82 | ug/L | | 93 |
| 47) 1,1-dichloropropene | 4.449 | 75 | 67334 | 21.01 | ug/L | | 96 |
| 48) carbon tetrachloride | 4.459 | 117 | 65128 | 19.58 | ug/L | | 97 |
| 49) isopropyl acetate | 4.571 | 87 | 17287 | 20.77 | ug/L | # | 74 |
| 50) tert amyl alcohol | 4.549 | 55 | 18832 | 71.43 | ug/L | # | 77 |
| 53) tert-amyl methyl ether | 4.655 | 73 | 157221 | 20.55 | ug/L | | 97 |
| 54) 2,2,4-trimethylpentane | 4.658 | 57 | 139515 | 22.94 | ug/L | | 98 |
| 55) n-butyl alcohol | 4.931 | 56 | 81824 | 480.24 | ug/L | | 93 |
| 56) benzene | 4.600 | 78 | 197814 | 22.11 | ug/L | | 98 |
| 57) heptane | 4.773 | 57 | 28669 | 20.44 | ug/L | # | 84 |
| 58) 1,2-dichloroethane | 4.622 | 62 | 66881 | 19.81 | ug/L | | 99 |
| 59) trichloroethene | 5.065 | 95 | 54885 | 21.69 | ug/L | | 97 |
| 60) ethyl acrylate | 5.085 | 55 | 96021 | 22.90 | ug/L | | 96 |
| 61) 2-nitropropane | 5.617 | 41 | 24084 | 19.63 | ug/L | | 91 |
| 62) 2-chloroethyl vinyl ether | 5.646 | 63 | 188199 | 128.47 | ug/L | | 93 |
| 63) methyl methacrylate | 5.264 | 100 | 20799 | 21.29 | ug/L | | 94 |
| 64) 1,2-dichloropropane | 5.264 | 63 | 51918 | 23.52 | ug/L | | 91 |
| 65) methylcyclohexane | 5.258 | 83 | 85977 | 21.58 | ug/L | | 88 |
| 66) dibromomethane | 5.335 | 93 | 32537 | 20.00 | ug/L | | 96 |
| 67) bromodichloromethane | 5.454 | 83 | 70157 | 18.92 | ug/L | | 95 |
| 68) cis-1,3-dichloropropene | 5.794 | 75 | 79100 | 19.02 | ug/L | | 95 |
| 69) epichlorohydrin | 5.704 | 57 | 42444 | 88.54 | ug/L | | 98 |
| 70) 4-methyl-2-pentanone | 5.893 | 58 | 136272 | 88.78 | ug/L | | 91 |
| 71) 3-methyl-1-butanol | 5.912 | 70 | 40908 | 217.72 | ug/L | # | 79 |
| 74) toluene | 6.076 | 92 | 128095 | 21.12 | ug/L | | 93 |
| 75) trans-1,3-dichloropropene | 6.249 | 75 | 69607 | 16.58 | ug/L | | 96 |
| 76) ethyl methacrylate | 6.265 | 69 | 86509 | 20.47 | ug/L | | 96 |
| 77) 1,1,2-trichloroethane | 6.416 | 83 | 43739 | 20.70 | ug/L | | 96 |
| 78) 2-hexanone | 6.580 | 58 | 138588 | 82.48 | ug/L | | 90 |
| 79) tetrachloroethene | 6.513 | 166 | 51153 | 21.05 | ug/L | | 97 |
| 80) 1,3-dichloropropane | 6.564 | 76 | 84722 | 20.63 | ug/L | | 96 |
| 81) butyl acetate | 6.667 | 56 | 48945 | 22.33 | ug/L | | 96 |
| 82) dibromochloromethane | 6.750 | 129 | 52197 | 18.48 | ug/L | | 99 |
| 83) 1,2-dibromoethane | 6.872 | 107 | 56242 | 19.87 | ug/L | | 100 |
| 84) n-butyl ether | 7.340 | 57 | 210266 | 23.22 | ug/L | | 92 |
| 85) chlorobenzene | 7.299 | 112 | 132533 | 21.38 | ug/L | | 95 |
| 86) 1,1,1,2-tetrachloroethane | 7.366 | 131 | 45585 | 20.31 | ug/L | | 95 |
| 87) ethylbenzene | 7.373 | 91 | 235185 | 22.09 | ug/L | | 95 |
| 88) m,p-xylene | 7.485 | 106 | 169823 | 39.79 | ug/L | | 93 |
| 89) o-xylene | 7.844 | 106 | 88744 | 20.79 | ug/L | | 98 |
| 90) butyl acrylate | 7.761 | 55 | 121418 | 22.22 | ug/L | | 94 |
| 91) styrene | 7.860 | 104 | 145190 | 20.97 | ug/L | | 98 |
| 92) bromoform | 8.040 | 173 | 33392 | 16.80 | ug/L | | 89 |
| 93) isopropylbenzene | 8.178 | 105 | 227509 | 21.23 | ug/L | | 95 |
| 94) cis-1,4-dichloro-2-butene | 8.232 | 88 | 8683 | 10.90 | ug/L | # | 87 |
| 97) bromobenzene | 8.496 | 156 | 53170 | 21.12 | ug/L | # | 86 |
| 98) 1,1,2,2-tetrachloroethane | 8.467 | 83 | 80099 | 19.29 | ug/L | | 100 |
| 99) trans-1,4-dichloro-2-b... | 8.502 | 53 | 7202 | 12.21 | ug/L | # | 65 |
| 100) 1,2,3-trichloropropane | 8.528 | 110 | 22380 | 18.72 | ug/L | | 97 |
| 101) n-propylbenzene | 8.573 | 91 | 252375 | 21.24 | ug/L | | 98 |
| 102) 2-chlorotoluene | 8.672 | 126 | 49739 | 21.27 | ug/L | | 92 |
| 103) 4-chlorotoluene | 8.788 | 126 | 50825 | 21.68 | ug/L | # | 86 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\vl10519-due today\
Data File : l347829.d
Acq On : 4 Oct 2022 10:21 am
Operator : nicoleh
Sample : cc10355-20 Inst : GCMSL
Misc : MS62669,VL10519,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 01:25:58 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration

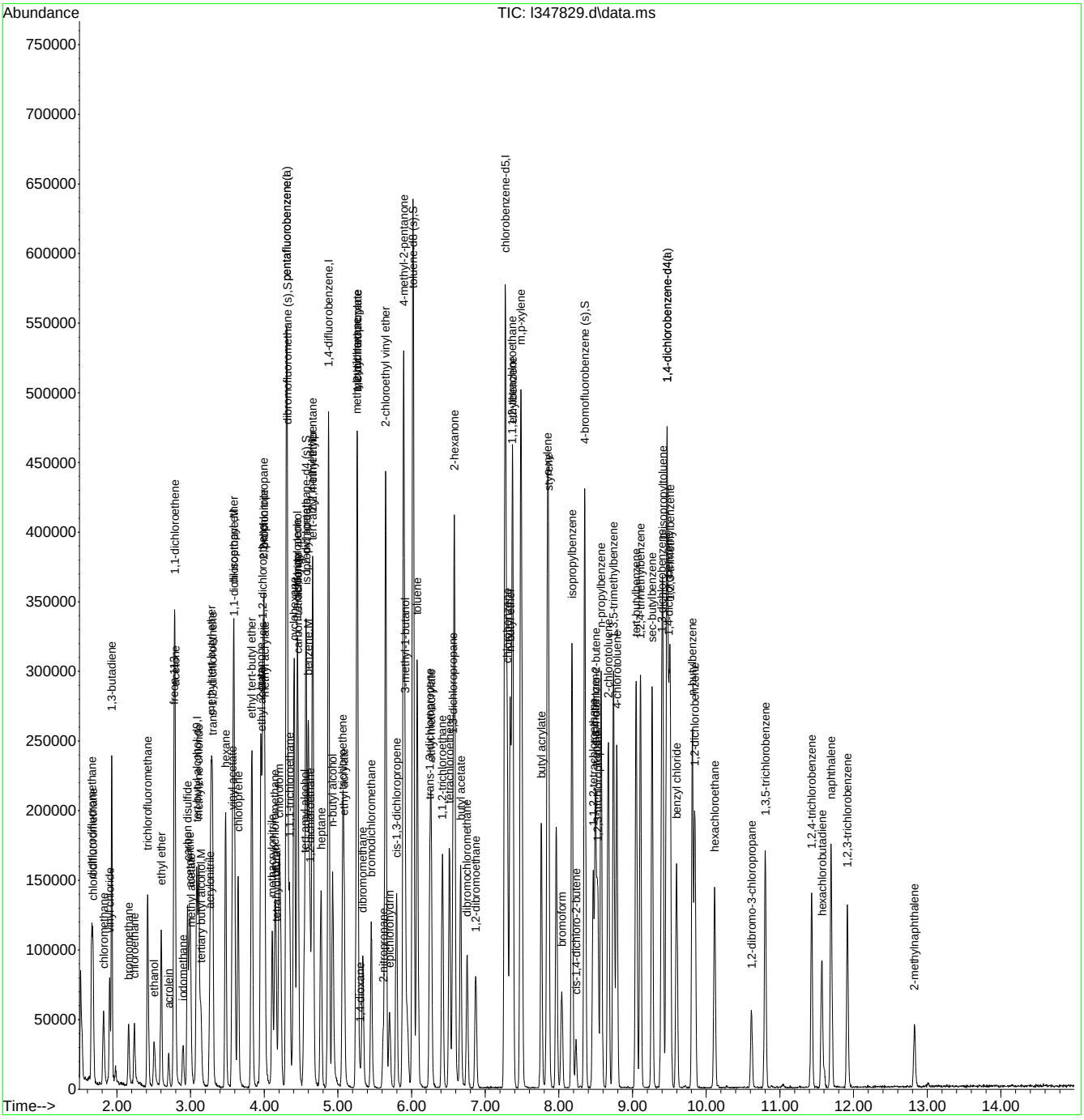
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) 1,3,5-trimethylbenzene | 8.739 | 105 | 175962 | 20.66 | ug/L | 98 |
| 105) tert-butylbenzene | 9.051 | 119 | 152105 | 21.31 | ug/L | 98 |
| 106) 1,2,4-trimethylbenzene | 9.105 | 105 | 176101 | 20.20 | ug/L | 96 |
| 107) sec-butylbenzene | 9.266 | 105 | 214290 | 21.00 | ug/L | 97 |
| 108) 1,3-dichlorobenzene | 9.394 | 146 | 90454 | 21.28 | ug/L | 98 |
| 109) p-isopropyltoluene | 9.410 | 119 | 168334 | 20.92 | ug/L | 97 |
| 110) 1,4-dichlorobenzene | 9.490 | 146 | 85361 | 20.48 | ug/L | 96 |
| 111) 1,2,3-trimethylbenzene | 9.510 | 105 | 164201 | 19.85 | ug/L | 99 |
| 112) 1,2-dichlorobenzene | 9.843 | 146 | 87328 | 20.88 | ug/L | 97 |
| 113) n-butylbenzene | 9.811 | 92 | 85899 | 21.33 | ug/L | 99 |
| 114) 1,2-dibromo-3-chloropr... | 10.617 | 157 | 16773 | 17.10 | ug/L | 85 |
| 115) 1,3,5-trichlorobenzene | 10.803 | 180 | 56609 | 20.98 | ug/L | 88 |
| 116) 1,2,4-trichlorobenzene | 11.432 | 180 | 45601 | 20.87 | ug/L | 98 |
| 117) hexachlorobutadiene | 11.573 | 225 | 17979 | 20.55 | ug/L | 78 |
| 118) naphthalene | 11.695 | 128 | 146549 | 19.86 | ug/L | 99 |
| 119) 1,2,3-trichlorobenzene | 11.913 | 180 | 41637 | 21.05 | ug/L | 91 |
| 120) hexachloroethane | 10.116 | 119 | 30214 | 18.11 | ug/L | 96 |
| 121) benzyl chloride | 9.600 | 91 | 126731 | 17.59 | ug/L | 96 |
| 122) 2-methylnaphthalene | 12.821 | 142 | 24384 | 9.23 | ug/L | 85 |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\oct-22\10-5\vl10519-due today\
Data File : l347829.d
Acq On : 4 Oct 2022 10:21 am
Operator : nicoleh
Sample : cc10355-20 Inst : GCMSL
Misc : MS62669,VL10519,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10355.M
Quant Results File: ML10355.RES
Quant Time: Oct 05 01:25:58 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Jun 23 18:51:37 2022
Response via : Initial Calibration



# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | | |
|---|---|---|---|---|---|---|
| Standard | ABK: V022-2752-74.52 | EC: V022-2752-105.11 | AA: V022-2752-81.43 | Ext.Chlorodifluoromethane: V022-2752-75 | Column | RXI-624(60mx0.25mmx1.4um) |
| Concentration | 100-10,000ppm | 100ppm | 100ppm | 100ppm | Method | V8260D |
| Expiration | 9/23/2022 | 9/19/2022 | 9/26/2022 | 9/23/2022 | Init Calib Date | 2/8/2022 |
| Internal/Surrogate | V022-2752-94 | | | | | |
| Concentration | 50/500ppm | | | | Analysis Date | 9/13/2022 |
| Expiration | 10/3/2022 | | | | Sequence loaded by | Prashant B. Shukla |
| Ext.Standard | Ext. ABK: V022-2752-101.2 | Ext. EC: V022-2752-97.6 | Ext.Acrolein: V022-2752-76.9 | Ext.PA: V022-2752-83.3 | Data processed by | Bridget Kelly |
| Concentration | 100-10,000ppm | 100ppm | 100ppm | 100-1,000ppm | Batch ID | V1A9688 |
| Expiration | 10/8/2022 | 9/13/2022 | 9/26/2022 | 9/30/2022 | Matrix | AQ |
| Rough reviewed by | | | | | Approved By: | KANYAV |
| pH Paper Lot# (wide range): 222221 | Exp. 8/1/2024 | | Initial Calibration Method | M1A9688 | Approved Date: | 9/21/2022 3:09:43 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 226121 | BFB | | NA | | TUNE | 5 | | | 1 | OK | 8:54 PM |
| 1A | 226122 | IC9688-0.2 | | NA | | ICC8260 WATER | 5 | | | 2 | OK | 1uL Std.A/B/K,EC,AA in 500mL DI H2O |
| 1A | 226123 | IC9688-0.5 | | NA | | ICC8260 WATER | 5 | | | 3 | OK | 1uL Std.A/B/K,EC,AA in 200mL DI H2O |
| 1A | 226124 | IC9688-1 | | NA | | ICC8260 WATER | 5 | | | 4 | OK | 1uL Std.A/B/K,EC,AA in 100mL DI H2O |
| 1A | 226125 | IC9688-2 | | NA | | ICC8260 WATER | 5 | | | 5 | OK | 1uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 1A | 226126 | IC9688-4 | | NA | | ICC8260 WATER | 5 | | | 6 | OK | 2uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 1A | 226127 | IC9688-8 | | NA | | ICC8260 WATER | 5 | | | 7 | OK | 4uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 1A | 226128 | IC9688-20 | | NA | | ICC8260 WATER | 5 | | | 8 | OK | 10uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 1A | 226129 | ICC9688-50 | | NA | | ICC8260 WATER | 5 | | | 9 | OK | 25uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 1A | 226130 | IC9688-100 | | NA | | ICC8260 WATER | 5 | | | 10 | OK | 50uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 1A | 226131 | IC9688-200 | | NA | | ICC8260 WATER | 5 | | | 11 | OK | 100uL Std.A/B/K,EC,AA in 50mL DI H2O |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | 226132 | IB | | NA | | | 5 | | | 12 | OK | |
| 1A | 226133 | IB | | NA | | | 5 | | | 13 | OK | |
| 1A | 226134 | ICV9688-50 | | NA | | ICV8260 WATER | 5 | | | 14 | OK | 25uL Ext.A/B/K,EC,Acrolein, in 50mL DI H2O |
| 1A | 226135 | ICV9688-50 | | NA | | ICV8260 WATER | 5 | | | 15 | OK | 25uL Ext.PA,Chlorodifluoromethane in 50mL DI H2O |
| 1A | 226136 | IB | | NA | | | 5 | | | 16 | OK | |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | | |
|---|---|---|---|---|---|---|
| Standard | ABK: V022-2752-121.8 | EC: V022-2752-122.9 | AA: V022-2752-125.5 | | Column | RXI-624(60mx0.25mmx1.4um) |
| Concentration | 100-10,000ppm | 100ppm | 100ppm | | Method | v8260d |
| Expiration | 10/21/2022 | 9/29/2022 | 10/27/2022 | | Init Calib Date | 2/8/2022 |
| Internal/Surrogate | V022-2752-48.1 | | | | | |
| Concentration | 50/500ppm | | | | Analysis Date | 9/27/2022 |
| Expiration | 10/3/2022 | | | | Sequence loaded by | nickw |
| | | | | | Data processed by | reneec |
| | | | | | Batch ID | V1A9698 |
| Rough reviewed by | | | | | Matrix | AQ |
| | | | | | Approved By: | MOHUI |
| pH Paper Lot# (wide range): 222221 | Exp. 8/1/2024 | | Initial Calibration Method | M1A9688 | Approved Date: | 10/4/2022 2:52:00 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1a | 226429 | IB | | NA | | | 5 | | | 1 | ok | |
| 1a | 226430 | BFB/CC9688-20 | | NA | | | 5 | | | 2 | ok/ok | 9:36a.m.; 20uL ABK, AA, EC / 100mL |
| 1a | 226431 | CC9688-1 | | NA | | | 5 | | | 3 | ok | 1uL ABK, AA, EC / 100mL |
| 1a | 226432 | BS | | NA | | | 5 | | | 4 | ok | 50uL ABK, AA, EC / 100mL |
| 1a | 226433 | IB | | NA | | | 5 | | | 5 | ok | |
| 1a | 226434 | MB | | NA | | | 5 | | | 6 | ok | |
| 1a | 226435 | JD52372-4 | 1 | NA | MS62426 | V8260TCL20+,TBA | 5 | | 3 | 7 | ok | |
| 1a | 226436 | JD52310-7 | 10 | NA | MS62427 | V8260PPTCL42+ | 5 | | 1 | 8 | ok | +MPXYL,OXYL,NAP,TBA |
| 1a | 226437 | JD52310-13 | 10 | NA | MS62427 | V8260PPTCL42+ | 5 | | 1 | 9 | ok | +MPXYL,OXYL,NAP,TBA |
| 1a | 226438 | JD52310-3 | 10 | 5x | MS62427 | V8260PPTCL42+ | 10/50 | | 1 | 10 | ok | +MPXYL,OXYL,NAP,TBA |
| 1a | 226439 | JD52310-8 | 27 | 10x | MS62427 | V8260PPTCL42+ | 5/50 | | 1 | 11 | ok | +1a226440 ; +MPXYL,OXYL,NAP,TBA |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1a | 226440 | JD52310-8 | 27 | NA | MS62427 | V8260PPTCL42+ | 5 | | 1 | 12 | ok | +1a226439 ; +MPXYL,OXYL,NAP,TBA |
| 1a | 226441 | JD52310-3 | 10 | 50x | MS62427 | V8260PPTCL42+ | 1/50 | | 1 | 13 | ok | not used ; +MPXYL,OXYL,NAP,TBA |
| 1a | 226442 | JD52467-20 | 1 | NA | MS62460 | V8260TCL20+ | 5 | | 1 | 14 | ok | |
| 1a | 226443 | JD52406-5 | 4 | 5x | MS62451 | V8260TCL20+, TBA | 10/50 | | 5 | 15 | ok | +L347434 |
| 1a | 226444 | JD52310-3MS | 10 | 5x | MS62427 | V8260PPTCL42+ | 10/50 | | 1 | 16 | ok | 25uL ABK, AA, EC / 50mL |
| 1a | 226445 | JD52310-3MSD | 10 | 5x | MS62427 | V8260PPTCL42+ | 10/50 | | 1 | 17 | ok | 25uL ABK, AA, EC / 50mL |
| 1a | 226446 | IB | | NA | | | 5 | | | 18 | ok | |
| 1a | 226447 | JD52467-21 | 1 | NA | MS62460 | V8260TCL20+ | 5 | | 1 | 19 | ok | |
| 1a | 226448 | JD52467-22 | 1 | NA | MS62460 | V8260TCL20+ | 5 | | 1 | 20 | ok | |
| 1a | 226449 | JD52467-23 | 2 | NA | MS62460 | V8260TCL20+ | 5 | | 1 | 21 | ok | |
| 1a | 226450 | JD52507-15 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 22 | ok | |
| 1a | 226451 | JD52507-16 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 23 | ok | |
| 1a | 226452 | JD52507-17 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 24 | ok | |
| 1a | 226453 | JD52507-18 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 25 | ok/rr | f/d |
| 1a | 226454 | JD52507-19 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 26 | ok/rr | c/o |
| 1a | 226455 | JD52507-20 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 27 | ok | |
| 1a | 226456 | JD52507-21 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 28 | ok | |
| 1a | 226457 | JD52372-1 | 2 | NA | MS62426 | V8260TCL20+ | 5 | | 3 | 29 | ok | 9:35p.m. |
| 1a | 226458 | JD52372-2 | 2 | NA | MS62426 | V8260TCL20+ | 5 | | 1 | 30 | ok/rr | out of bfb 9:59 p.m |
| 1a | 226459 | IB | | NA | | | 5 | | | 31 | ok | |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | Column | RXI-624(60mx0.25mmx1.4um) |
|---|---|---|---|---|---|---|
| Standard | ABK: V022-2752-121.8 | EC: V022-2752-132.8 | AA: V022-2752-125.5 | | Method | v8260d |
| Concentration | 100-10,000ppm | 100ppm | 100ppm | | Init Calib Date | 2/8/2022 |
| Expiration | 10/21/2022 | 10/5/2022 | 10/27/2022 | | | |
| Internal/Surrogate | V022-2752-94 | | | | | |
| Concentration | 50/500ppm | | | | Analysis Date | 9/30/2022 |
| Expiration | 10/3/2022 | | | | Sequence loaded by | nickw |
| | | | | | Data processed by | reneec |
| | | | | | Batch ID | V1A9705 |
| Rough reviewed by | | | | | Matrix | AQ |
| | | | | | Approved By: | MOHUI |
| pH Paper Lot# (wide range): 222221 | Exp. 8/1/2024 | | Initial Calibration Method | M1A9688 | Approved Date: | 10/4/2022 3:26:23 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1a | 226604 | IB | | NA | | | 5 | | | 1 | ok | |
| 1a | 226605 | BFB/CC9688-20 | | NA | | | 5 | | | 2 | ok/ok | 10:42a.m.; 20uL ABK, AA, EC / 100mL |
| 1a | 226606 | CC9688-1 | | NA | | | 5 | | | 3 | ok | 1uL ABK, AA, EC / 100mL |
| 1a | 226607 | BS | | NA | | | 5 | | | 4 | ok | 50uL ABK, AA, EC / 100mL |
| 1a | 226608 | IB | | NA | | | 5 | | | 5 | ok | |
| 1a | 226609 | MB | | NA | | | 5 | | | 6 | ok | |
| 1a | 226610 | JD52667-3DUP | 1 | NA | MS62579 | V8260RCP | 5 | | 1 | 7 | ok | v1a9604 |
| 1a | 226611 | JD52561-2 | 1 | NA | MS62539 | V8260TCL20 | 5 | | 7 | 8 | ok | |
| 1a | 226612 | JD52561-3 | 11 | NA | MS62539 | V8260TCL20 | 5 | | 7 | 9 | ok | |
| 1a | 226613 | JD52507-10 | 3 | 20X | MS62506 | V8260TCL42 | 2.5/50 | | 1 | 10 | ok | +1A226618 |
| 1a | 226614 | JD52507-8 | 2 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 11 | ok | +1A226617 |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1a | 226615 | JD52561-12 | 2 | 500X | MS62539 | V8260TCL20 | 0.1/50 | | 7 | 12 | ok | +2A220433 |
| 1a | 226616 | JD52561-13 | 6 | 4X | MS62539 | V8260TCL20 | 12.5/50 | | 7 | 13 | ok | +2A220434 |
| 1a | 226617 | JD52507-8 | 2 | 10X | MS62506 | V8260TCL42 | 5/50 | | 1 | 14 | ok | +1A226614 |
| 1a | 226618 | JD52507-10 | 3 | 100X | MS62506 | V8260TCL42 | 0.5/50 | | 1 | 15 | ok | +1A226613 |
| 1a | 226619 | JD52624-3 | 10 | 10X | MS62562 | V8260TCL20+ | 5/50 | | 1 | 16 | ok/rr | o/d |
| 1a | 226620 | JD52624-3MS | 10 | 10X | MS62562 | V8260TCL20+ | 5/50 | | 1 | 17 | ok | 25uL ABK, AA, EC / 50mL |
| 1a | 226621 | JD52624-3MSD | 10 | 10X | MS62562 | V8260TCL20+ | 5/50 | | 1 | 18 | ok | 25uL ABK, AA, EC / 50mL |
| 1a | 226622 | IB | | NA | | | 5 | | | 19 | ok | |
| 1a | 226623 | JD52624-6 | 8 | NA | MS62562 | V8260TCL20+ | 5 | | 1 | 20 | ok | |
| 1a | 226624 | JD52624-7 | 1 | NA | MS62562 | V8260TCL20+ | 5 | | 1 | 21 | ok | |
| 1a | 226625 | JD52507-9 | 2 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 22 | ok | |
| 1a | 226626 | JD52561-10 | 1 | NA | MS62539 | V8260TCL20 | 5 | | 7 | 23 | ok | |
| 1a | 226627 | JD52507-14 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 24 | ok | |
| 1a | 226628 | JD52626-24 | 1 | 50X | MS62593 | V8260TCL20+ | 1/50 | | 1 | 25 | ok/rr | o/d |
| 1a | 226629 | JD52624-4 | 8 | 10X | MS62562 | V8260TCL20+ | 5/50 | | 1 | 26 | ok/rr | f/d |
| 1a | 226630 | JD52624-5 | 10 | 100X | MS62562 | V8260TCL20+ | 0.5/50 | | 1 | 27 | ok/rr | f/d |
| 1a | 226631 | JD52624-1 | 7 | NA | MS62562 | V8260TCL20+ | 5 | | 1 | 28 | ok | |
| 1a | 226632 | JD52624-2 | 7 | NA | MS62562 | V8260TCL20+ | 5 | | 1 | 29 | ok | |
| 1a | 226633 | JD52570-6 | 1 | NA | MS62544 | V8260TCL20+ | 5 | | 1 | 30 | ok | |
| 1a | 226634 | JD52570-1 | 1 | NA | MS62544 | V8260TCL20+ | 5 | | 1 | 31 | ok/rr | c/o; 10:31p.m. |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1a | 226635 | IB | 1 | NA | MS62544 | | 5 | | | 32 | ok | |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | Column | Rxi-624(30mx0.25mmx1.4um) |
|---|---|---|---|---|---|---|
| Standard | ABK: V021-2752-121.29 | Ec:V021-2752-136.8 | AA:V021-2752-125.6 | EXT EC: V022-2752-126.1 | Method | v8260d |
| Standard Concentration | 100-10,000ppm | 100ppm | 100ppm | 100 ppm | Init Calib Date | 9/28/2022 |
| Expiration Date | 10/21/2022 | 10/5/2022 | 10/27/2022 | 10/4/2022 | | |
| Internal Surrogate | V021-2741-117 | | | | | |
| Internal Surrogate Concentration | 50/500ppm | | | | Analysis Date | 9/28/2022 |
| Expiration Date | 3/23/2022 | | | | Sequence loaded by | Prashant B. Shukla |
| Standard | EXT PA: v022-2752-83.3 | EXT Chlorodifluoromethane: V022-2752-120 | EXT ABK: V022-2752-101.3 | EXT Acrolein: V022-2752-128.21 | Data processed by | Mohui Huang |
| Standard Concentration | 100 ppm | 100 ppm | 100 ppm | 100 ppm | Batch ID | V1X8636 |
| Expiration Date | 9/30/2022 | 10/20/2022 | 10/8/2022 | 10/27/2022 | Matrix | AQ |
| | | | | | Approved By: | KANYAV |
| pH Paper Lot# (wide range): 223120 | Exp:8/15/2023 | | Initial Calibration Method | M1X8415 | Approved Date: | 10/8/2022 2:17:03 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1X | 200546 | BFB | | NA | | | 5 | | | 1 | ok | 8:11pm |
| 2X | 200547 | BFB | | NA | | | 5 | | | 2 | ok | 8:31pm |
| 1X | 200548 | IC8636-0.2 | | NA | | AQ Initical Calibration | 5 | | | 3 | ok | 1.0 ul abk, aa, ex / 500 ml |
| 2X | 200549 | IC8636-0.2 | | NA | | AQ Initical Calibration | 5 | | | 4 | ok | 1.0 ul abk, aa, ex / 500 ml |
| 1X | 200550 | IC8636-0.5 | | NA | | AQ Initical Calibration | 5 | | | 5 | ok | 1.0 ul abk, aa, ex / 200 ml |
| 2X | 200551 | IC8636-0.5 | | NA | | AQ Initical Calibration | 5 | | | 6 | ok | 1.0 ul abk, aa, ex / 200 ml |
| 1X | 200552 | IC8636-1.0 | | NA | | AQ Initical Calibration | 5 | | | 7 | ok | 1.0 ul abk, aa, ex / 100 ml |
| 2X | 200553 | IC8636-1.0 | | NA | | AQ Initical Calibration | 5 | | | 8 | ok | 1.0 ul abk, aa, ec / 100 ml |
| 1X | 200554 | IC8636-2.0 | | NA | | AQ Initical Calibration | 5 | | | 9 | ok | 2.0 ul abk, aa, ec / 100 ml |
| 2X | 200555 | IC8636-2.0 | | NA | | AQ Initical Calibration | 5 | | | 10 | ok | 2.0 ul abk, aa, ec / 100 ml |
| 1X | 200556 | IC8636-4.0 | | NA | | AQ Initical Calibration | 5 | | | 11 | ok | 4.0 ul abk, aa, ec / 100 ml |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2X | 200557 | IC8636-4.0 | | NA | | AQ Initical Calibration | 5 | | | 12 | ok | 4.0 ul abk, aa, ec / 100 ml |
| 1X | 200558 | IC8636-8.0 | | NA | | AQ Initical Calibration | 5 | | | 13 | ok | 8.0 ul abk, aa, ec / 100 ml |
| 2X | 200559 | IC8636-8.0 | | NA | | AQ Initical Calibration | 5 | | | 14 | ok | 8.0 ul abk, aa, ec / 100 ml |
| 1X | 200560 | IC8636-20 | | NA | | AQ Initical Calibration | 5 | | | 15 | ok | 20 ul abk, aa, ec / 100 ml |
| 2X | 200561 | IC8636-20 | | NA | | AQ Initical Calibration | 5 | | | 16 | ok | 20 ul abk, aa, ec / 100 ml |
| 1X | 200562 | ICC8636-50 | | NA | | AQ Initical Calibration | 5 | | | 17 | ok | 50 ul abk, aa, ec / 100 ml |
| 2X | 200563 | ICC8636-50 | | NA | | AQ Initical Calibration | 5 | | | 18 | ok | 50 ul abk, aa, ec / 100 ml |
| 1X | 200564 | IC8636-100 | | NA | | AQ Initical Calibration | 5 | | | 19 | ok | 100 ul abk, aa, ec / 100 ml |
| 2X | 200565 | IC8636-100 | | NA | | AQ Initical Calibration | 5 | | | 20 | ok | 100 ul abk, aa, ec / 100 ml |
| 1X | 200566 | IC8636-200 | | NA | | AQ Initical Calibration | 5 | | | 21 | ok | 200 ul abk, aa, ec / 100 ml |
| 2X | 200567 | IC8636-200 | | NA | | AQ Initical Calibration | 5 | | | 22 | ok | 200 ul abk, aa, ec / 100 ml |
| 1X | 200568 | IB | | NA | | | 5 | | | 23 | | |
| 2X | 200569 | IB | | NA | | | 5 | | | 24 | | |
| 1X | 200570 | IB | | NA | | | 5 | | | 25 | | |
| 2X | 200571 | IB | | NA | | | 5 | | | 26 | | |
| 1X | 200572 | ICV8636-50 | | NA | | AQ Initical Calibration | 5 | | | 27 | ok | 50 uL EXT ABK, EXT EC, EXT Acrolein / 100 mL DI H2O |
| 2X | 200573 | ICV8636-50 | | NA | | AQ Initical Calibration | 5 | | | 28 | ok | 50 uL EXT ABK, EXT EC, EXT Acrolein / 100 mL DI H2O |
| 1X | 200574 | ICV8636-50 | | NA | | AQ Initical Calibration | 5 | | | 29 | ok | 50 uL EXT PA, EXT Chlorodifluoromethan / 100 mL DI H2O |
| 2X | 200575 | ICV8636-50 | | NA | | AQ Initical Calibration | 5 | | | 30 | ok | 50 uL EXT PA, EXT Chlorodifluoromethan / 100 mL DI H2O |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | | |
|---|---|---|---|---|---|---|
| Standard | ABK: V022-2752-121.29 | EC: V022-2752-132.6 | AA: V022-2752-125.6 | | Column | Rxi-624(60mx0.25mmx1.4um) |
| Concentration | 100-10,000ppm | 100ppm | 100ppm | | Method | v8260d |
| Expiration | 10/21/2022 | 10/5/2022 | 10/27/2022 | | Init Calib Date | 9/30/2022 |
| Internal/Surrogate | V022-2752-94 | | | | | |
| Concentration | 50/500ppm | | | | Analysis Date | 9/29/2022 |
| Expiration | 10/3/2022 | | | | Sequence loaded by | taylors |
| | | | | | Data processed by | davem1 |
| | | | | | Batch ID | V1X8637 |
| Rough reviewed by | | | | | Matrix | AQ |
| | | | | | Approved By: | MEI |
| pH Paper Lot# (wide range): 222221 | Exp. 8/1/2024 | | Initial Calibration Method | M1X8636 | Approved Date: | 10/5/2022 5:06:55 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1X | 200578 | IB | | NA | | | 5 | | | 1 | ok | |
| 1X | 200579 | IB | | NA | | | 5 | | | 2 | ok | |
| 1X | 200580 | BFB/CC8636-20 | | NA | | | 5 | | | 3 | ok/ok | 10:06am, 20 ul abk, aa, ec / 100 ml |
| 1X | 200581 | BS | | NA | | | 5 | | | 4 | ok | 50 ul abk, aa, ec / 100 ml |
| 1X | 200582 | IB | | NA | | | 5 | | | 5 | ok | |
| 1X | 200583 | MB | | NA | | | 5 | | | 6 | ok | |
| 1X | 200584 | JD52594-1 | 2 | 4x | MS62564 | V8260BTX, 124TMB, 135TMB,2MNAP,NAP | 12.5/50 | | 6 | 7 | ok/dl | +1X200598 |
| 1X | 200585 | JD52507-18 | 2 | 10x | MS62506 | V8260TCL42 | 5/50 | | 1 | 8 | ok | +1A226453 |
| 1X | 200586 | JD52594-5 | 2 | NA | MS62564 | V8260BTX, 124TMB, 135TMB,2MNAP,NAP | 5 | | 1 | 9 | ok | |
| 1X | 200587 | JD52594-4 | 2 | NA | MS62564 | V8260BTX, 124TMB, 135TMB,2MNAP,NAP | 5 | | 1 | 10 | rr | f/d rr 10x |
| 1X | 200588 | JD52594-10 | 2 | 50 | MS62564 | V8260BTX, 124TMB, 135TMB,2MNAP,NAP | 1/50 | | 1 | 11 | rr | o/d |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1X | 200589 | JD52594-2 | 2 | NA | MS62564 | V8260BTX, 124TMB, 135TMB,2MNAP,NAP | 5 | | 1 | 12 | ok | |
| 1X | 200590 | JD52594-3 | 2 | NA | MS62564 | V8260BTX, 124TMB, 135TMB,2MNAP,NAP | 5 | | 1 | 13 | ok | |
| 1X | 200591 | JD52594-6 | 2 | NA | MS62564 | V8260BTX, 124TMB, 135TMB,2MNAP,NAP | 5 | | 1 | 14 | ok | |
| 1X | 200592 | JD52461-1 | 1 | 10x | MS62524 | V8260TCL20 | 5/50 | | 1 | 15 | ok | |
| 1X | 200593 | JD52461-2 | 2 | 10x | MS62524 | V8260TCL20 | 5/50 | | 1 | 16 | ok | |
| 1X | 200594 | JD52461-1 | 1 | NA | MS62524 | V8260TCL20 | 5 | | 1 | 17 | ok/dl | +1X200592 |
| 1X | 200595 | JD52461-2 | 2 | NA | MS62524 | V8260TCL20 | 5 | | 1 | 18 | ok/dl | +1X200593 |
| 1X | 200596 | JD52594-1MS | 2 | 4x | MS62564 | V8260BTX, 124TMB, 135TMB,2MNAP,NAP | 12.5/50 | | 6 | 19 | ok | 25 ul abk, aa, ec / 50 ml |
| 1X | 200597 | JD52594-1MSD | 2 | 4x | MS62564 | V8260BTX, 124TMB, 135TMB,2MNAP,NAP | 12.5/50 | | 6 | 20 | ok | 25 ul abk, aa, ec / 50 ml |
| 1X | 200598 | JD52594-1 | 2 | 40x | MS62564 | V8260BTX, 124TMB, 135TMB,2MNAP,NAP | 1.25/50 | | 6 | 21 | ok | |
| 1X | 200599 | JD52507-19 | 2 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 22 | ok | |
| 1X | 200600 | JD52656-3 | 7 | NA | MS62583 | V8260TCL | 5 | | 1 | 23 | ok | |
| 1X | 200601 | JD52656-4 | 2 | NA | MS62583 | V8260TCL | 5 | | 1 | 24 | ok | |
| 1X | 200602 | JD52507-22 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 25 | ok | |
| 1X | 200603 | JD52594-10 | 2 | NA | MS62564 | V8260BTX, 124TMB, 135TMB,2MNAP,NAP | 5 | | 1 | 26 | ok | |
| 1X | 200604 | JD52594-7 | 2 | NA | MS62564 | V8260BTX, 124TMB, 135TMB,2MNAP,NAP | 5 | | 1 | 27 | ok | |
| 1X | 200605 | JD52594-8 | 2 | NA | MS62564 | V8260BTX, 124TMB, 135TMB,2MNAP,NAP | 5 | | 1 | 28 | ok | |
| 1X | 200606 | JD52594-9 | 2 | NA | MS62564 | V8260BTX, 124TMB, 135TMB,2MNAP,NAP | 5 | | 1 | 29 | ok | |
| 1X | 200607 | JD52594-11 | 3 | NA | MS62564 | V8260BTX, 124TMB, 135TMB,2MNAP,NAP | 5 | | 1 | 30 | ok | |
| 1X | 200608 | JD52656-1 | 8 | NA | MS62583 | V8260TCL | 5 | | 1 | 31 | ok | |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1X | 200609 | JD52656-2 | 8 | NA | MS62583 | V8260TCL | 5 | | 1 | 32 | ok | 9:24pm |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | | |
|---|---|---|---|---|---|---|
| Standard | EXT ABK: V022-2752-101.3 | EXT EC: V022-2752-126.1 | EXT Acrolein: V022-2752-128.21 | | Column | Rxi-624(60mx0.25mmx1.4um) |
| Concentration | 100-10,000ppm | 100ppm | 100ppm | | Method | v624.1 |
| Expiration | 10/8/2022 | 10/4/2022 | 10/27/2022 | | Init Calib Date | 9/30/2022 |
| Internal/Surrogate | V022-2752-94 | | | | | |
| Concentration | 50/500ppm | | | | Analysis Date | 9/29/2022 |
| Expiration | 10/3/2022 | | | | Sequence loaded by | taylors |
| | | | | | Data processed by | kinjald/kristelv |
| | | | | | Batch ID | V1X8638 |
| Rough reviewed by | | | | | Matrix | AQ |
| | | | | | Approved By: | MOHUI |
| pH Paper Lot# (narrow range): 222221 | Exp. 8/1/2024 | | Initial Calibration Method | M1X8636 | Approved Date: | 10/3/2022 5:50:25 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1X | 200610 | IB | | NA | | | 5 | | | 1 | ok | |
| 1X | 200611 | BFB | | NA | | | 5 | | | 2 | ok | 10:10pm |
| 1X | 200612 | CC8636-20/BS | | NA | | | 5 | | | 3 | ok/ok | 20 ul ext ec, ext abk, ext acrolein / 100 ml |
| 1X | 200613 | IB | | NA | | | 5 | | | 4 | ok | |
| 1X | 200614 | MB | | NA | | | 5 | | | 5 | ok | |
| 1X | 200615 | JD52604-4 | 5 | 4x | MS62553 | V624BTX | 12.5/50 | | 1.5 | 6 | ok | |
| 1X | 200616 | JD52604-4MS | 5 | 4x | MS62553 | V624BTX | 12.5/50 | | 1.5 | 7 | ok | 10 ul ext abk, ext ec, ext acrolein / 50 ml |
| 1X | 200617 | JD52604-4MSD | 5 | 4x | MS62553 | V624BTX | 12.5/50 | | 1.5 | 8 | ok | 10 ul ext abk, ext ec, ext acrolein / 50 ml |
| 1X | 200618 | IB | | NA | | | 5 | | | 9 | ok | |
| 1X | 200619 | JD52705-3 | 2 | NA | MS62578 | V624TTO | 5 | | 1.5 | 10 | ok | |
| 1X | 200620 | JD52499-1 | 7 | NA | MS62496 | V624TCE | 5 | | 1.5 | 11 | ok | |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1X | 200621 | JD52708-1 | 6 | NA | MS62578 | V624ACROLEIN,UNPR | 5 | | 6 | 12 | ok | |
| 1X | 200622 | JD52681-4 | 2 | 5x | MS62578 | V624PPL+,MMC,STYR,UNPR | 10/50 | | 6 | 13 | ok | O/D |
| 1X | 200623 | JD52690-2 | 2 | NA | MS62578 | V624PPTCL,14DIOXANE,ACE,UNPR | 5 | | 5 | 14 | ok | |
| 1X | 200624 | JD52601-38 | 1 | NA | MS62537 | V624PPL+10,UNPR | 5 | | 5 | 15 | ok | |
| 1X | 200625 | JD52601-39 | 1 | NA | MS62537 | V624PPL+10,UNPR | 5 | | 5 | 16 | ok | |
| 1X | 200626 | JD52601-40 | 1 | NA | MS62537 | V624PPL+10,UNPR | 5 | | 5 | 17 | ok | |
| 1X | 200627 | JD52599-3A | 11 | NA | MS62535 | V624TCL20+,TBA | 5 | | 1.5 | 18 | ok | |
| 1X | 200628 | JD52456-9 | 5 | NA | MS62459 | V624BTXMT | 5 | | 2.5 | 19 | ok | |
| 1X | 200629 | JD52456-10 | 2 | NA | MS62459 | V624BTX | 5 | | 1.5 | 20 | ok | C/O |
| 1X | 200630 | JD52456-13 | 3 | NA | MS62459 | V624BTXMT | 5 | | 1.5 | 21 | ok | |
| 1X | 200631 | JD52456-14 | 3 | NA | MS62459 | V624BTXMT | 5 | | 1.5 | 22 | ok | |
| 1X | 200632 | JD52456-15 | 3 | NA | MS62459 | V624BTXMT | 5 | | 1.5 | 23 | ok | |
| 1X | 200633 | JD52456-16 | 3 | NA | MS62459 | V624BTXMT | 5 | | 1.5 | 24 | ok | |
| 1X | 200634 | JD52395-1 | 5 | NA | MS62446 | V624ACE,AMYLACE,EACE,ISOACE,MECL | 5 | | 1.5 | 25 | ok | |
| 1X | 200635 | JD52604-1 | 5 | NA | MS62553 | V624BTX,124TMB | 5 | | 1.5 | 26 | ok | 7:26AM |
| 1X | 200636 | JD52604-2 | 5 | NA | MS62553 | V624BTX,124TMB | 5 | | | 27 | NR | |
| 1X | 200637 | JD52604-3 | 9 | NA | MS62553 | V624BTX,124TMB | 5 | | | 28 | NR | |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | Column | Rxi-624(60mx0.25mmx1.4um) |
|---|---|---|---|---|---|---|
| Standards | ABK: V022-2752-36.15 | EC: V022-2752-42.1 | AA: V021-2752-40.58 | Ext.Chlorodifluoromethane: V022-2752-31 | Method | V8260D |
| Concentration | 100-10,000ppm | 100ppm | 100ppm | 100ppm | Init Calib Date | 5/6/2022 |
| Expiration | 8/23/2022 | 8/4/2022 | 8/28/2022 | 8/21/2022 | | |
| Ext.Standards | Ext.ABK: V022-2752-29.4 | Ext.EC: V022-2752-43.3 | Ext.Acrolein: V022-2752-39.9 | Ext.PA: V022-2752-38.9 | | |
| Concentration | 100-10,000ppm | 100ppm | 100ppm | 100-1,000ppm | Analysis Date | 7/31/2022 |
| Expiration | 8/18/2022 | 8/5/2022 | 8/26/2022 | 8/26/2022 | Sequence loaded by | Prashant B. Shukla |
| Internal/Surrogate | V022-2752-20 | | | | Data processed by | Mohui Huang |
| Concentration | 250/2500ppm | | | | Batch ID | V2A9511 |
| Expiration | 8/14/2022 | | | | Matrix | AQ |
| Rough reviewed by | | | | | Approved By: | KANYAV |
| pH Paper Lot# (wide range):222221 | Exp. 8/1/2024 | | Initial Calibration Method | M2A9511 | Approved Date: | 8/1/2022 6:38:11 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2A | 218780 | BFB | | NA | | TUNE | 5 | | | 1 | ok | |
| 2A | 218781 | IC9511-0.2 | | NA | | ICC 8260 Water | 5 | | | 2 | ok | 1uL Std.A/B/K,EC,AA in 500mL DI H2O |
| 2A | 218782 | IC9511-0.5 | | NA | | ICC 8260 Water | 5 | | | 3 | ok | 1uL Std.A/B/K,EC,AA in 200mL DI H2O |
| 2A | 218783 | IC9511-1 | | NA | | ICC 8260 Water | 5 | | | 4 | ok | 1uL Std.A/B/K,EC,AA in 100mL DI H2O |
| 2A | 218784 | IC9511-2 | | NA | | ICC 8260 Water | 5 | | | 5 | ok | 1uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 2A | 218785 | IC9511-4 | | NA | | ICC 8260 Water | 5 | | | 6 | ok | 2uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 2A | 218786 | IC9511-8 | | NA | | ICC 8260 Water | 5 | | | 7 | ok | 4uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 2A | 218787 | IC9511-20 | | NA | | ICC 8260 Water | 5 | | | 8 | ok | 10uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 2A | 218788 | ICC9511-50 | | NA | | ICC 8260 Water | 5 | | | 9 | ok | 25uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 2A | 218789 | IC9511-100 | | NA | | ICC 8260 Water | 5 | | | 10 | ok | 50uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 2A | 218790 | IC9511-200 | | NA | | ICC 8260 Water | 5 | | | 11 | ok | 100uL Std.A/B/K,EC,AA in 50mL DI H2O |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2A | 218791 | IB | | NA | | | 5 | | | 12 | OK | |
| 2A | 218792 | IB | | NA | | | 5 | | | 13 | OK | |
| 2A | 218793 | ICV9511-50 | | NA | | ICV 8260 Water | 5 | | | 14 | ok | 25uL Ext.A/B/K,EC,Acrolein, in 50mL DI H2O |
| 2A | 218794 | ICV9511-50 | | NA | | ICV 8260 Water | 5 | | | 15 | ok | 25uL Ext.PA,Chlorodifluoromethane in 50mL DI H2O |
| 2A | 218795 | IB | | NA | | | 5 | | | 16 | OK | |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | | |
|---|---|---|---|---|---|---|
| Standard | ABK: V022-2752-121.7 | EC: V022-2752-122.8 | AA: V022-2752-125.1 | | Column | Rxi-624(60mx0.25mmx1.4um) |
| Standard Concentration | 100-10,000ppm | 100ppm | 100ppm | | Method | V8260D |
| Expiration Date | 10/21/2022 | 9/29/22 | 10/27/2022 | | Init Calib Date | 7/31/22 |
| Internal Surrogate | V022-2752-93 | | | | | |
| Internal Surrogate Concentration | 50/500ppm | | | | Analysis Date | 9/29/2022 |
| Expiration Date | 10/3/2022 | | | | Sequence loaded by | nicoleh |
| | | | | | Data processed by | kristelv |
| | | | | | Batch ID | V2A9581 |
| Rough reviewed by | | | | | Matrix | AQ |
| | | | | | Approved By: | MEI |
| pH paper Lot# (wide range): | 222221 | 81/2024 | Initial Calibration Method | M2A9511 | Approved Date: | 10/3/2022 1:00:03 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2A | 220389 | IB | | NA | | | 5 | | | 1 | ok | |
| 2A | 220390 | BFB/CC9511-20 | | NA | | | 5 | | | 2 | ok/ok | 20uL ABK EC AA / 100mL 9:13am |
| 2A | 220391 | CC9511-1 | | NA | | | 5 | | | 3 | ok | 1uL ABK EC AA / 100mL |
| 2A | 220392 | BS | | NA | | | 5 | | | 4 | ok | 50uL ABK EC AA / 100mL |
| 2A | 220393 | IB | | NA | | | 5 | | | 5 | ok | |
| 2A | 220394 | MB | | NA | | | 5 | | | 6 | ok | |
| 2A | 220395 | JD50917-15 | 15 | 5X | MS62503 | V8260TCL20 | 10/50 | | 1 | 7 | ok | |
| 2A | 220396 | JD50917-22 | 16 | 100X | MS62503 | V8260TCL20 | 0.5/50 | | 1 | 8 | ok | +2U48792 |
| 2A | 220397 | JD50917-10 | 1 | 50X | MS62503 | V8260TCL20 | 1/50 | | 1 | 9 | ok | +1U48811 |
| 2A | 220398 | JD52507-3 | 2 | 10X | MS62506 | V8260TCL42 | 5/0 | | 1 | 10 | ok | +2V92892 |
| 2A | 220399 | JD50917-11 | 5 | 250X | MS62503 | V8260TCL20 | 0.2/50 | | 1 | 11 | ok | +2U48812 |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2A | 220400 | JD50917-15MS | 15 | 5X | MS62503 | V8260TCL20 | 10/50 | | 1 | 12 | ok | 25uL ABK EC AA / 50mL |
| 2A | 220401 | JD50917-15MSD | 15 | 5X | MS62503 | V8260TCL20 | 10/50 | | 1 | 13 | ok | 25uL ABK EC AA / 50mL |
| 2A | 220402 | JD50917-14 | 5 | 500X | MS62503 | V8260TCL20 | 0.1/50 | | 1 | 14 | ok | +1U48813 |
| 2A | 220403 | JD52644-8 | 1 | NA | MS62577 | V8260TCL20,UNPR | 5 | | 6 | 15 | ok | |
| 2A | 220404 | JD52644-1 | 8 | 50X | MS62577 | V8260TCL20,UNPR | 1/50 | | 6 | 16 | rr | o/d |
| 2A | 220405 | JD52644-2 | 7 | 500X | MS62577 | V8260TCL20,UNPR | 0.1/50 | | 6 | 17 | rr | f/d |
| 2A | 220406 | JD52644-3 | 7 | 2.5X | MS62577 | V8260TCL20,UNPR | 20/50 | | 6 | 18 | rr | cchit and f/d |
| 2A | 220407 | JD52644-4 | 8 | 500X | MS62577 | V8260TCL20,UNPR | 0.1/50 | | 6 | 19 | ok | |
| 2A | 220408 | JD52644-5 | 1 | 10X | MS62577 | V8260TCL20,UNPR | 5/50 | | 6 | 20 | rr | o/d |
| 2A | 220409 | JD52644-6 | 8 | 50X | MS62577 | V8260TCL20,UNPR | 1/50 | | 6 | 21 | rr | f/d |
| 2A | 220410 | JD52644-7 | 1 | 25X | MS62577 | V8260TCL20,UNPR | 2/50 | | 8 | 22 | rr | f/d |
| 2A | 220411 | JD50917-16 | 4 | 200X | MS62503 | V8260TCL20 | 0.25/50 | | 1 | 23 | rr | o/d |
| 2A | 220412 | JD50917-23 | 5 | 50X | MS62503 | V8260TCL20 | 1/50 | | 1 | 24 | ok | 7:53pm |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | | |
|---|---|---|---|---|---|---|
| Standard | ABK: V022-2752-121.7 | EC: V022-2752-132.7 | AA: V022-2752-125.1 | | Column | Rxi-624(60mx0.25mmx1.4um) |
| Standard Concentration | 100-10,000ppm | 100ppm | 100ppm | | Method | V8260D |
| Expiration Date | 10/21/2022 | 10/5/2022 | 10/27/2022 | | Init Calib Date | 7/31/22 |
| Internal Surrogate | V022-2752-93 | | | | | |
| Internal Surrogate Concentration | 50/500ppm | | | | Analysis Date | 9/30/2022 |
| Expiration Date | 10/3/2022 | | | | Sequence loaded by | nicoleh |
| | | | | | Data processed by | Lotusa |
| | | | | | Batch ID | V2A9583 |
| Rough reviewed by | | | | | Matrix | AQ |
| | | | | | Approved By: | MEI |
| pH paper Lot# (wide range): | 222221 | 81/2024 | Initial Calibration Method | M2A9511 | Approved Date: | 10/5/2022 4:07:04 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2A | 220437 | IB | | NA | | | 5 | | | 1 | OK | |
| 2A | 220438 | BFB/CC9511-20 | | NA | | | 5 | | | 2 | OK | 9:16AM 20uL abk ec aa / 100mL |
| 2A | 220439 | CC9511-1 | | NA | | | 5 | | | 3 | OK | 1uL abk ec aa / 100mL |
| 2A | 220440 | BS | | NA | | | 5 | | | 4 | OK | 50uL abk ec aa / 100mL |
| 2A | 220441 | IB | | NA | | | 5 | | | 5 | OK | |
| 2A | 220442 | MB | | NA | | | 5 | | | 6 | OK | |
| 2A | 220443 | JD52572-11 | 1 | NA | MS62546 | V8260TCL20+ | 5 | | 7 | 7 | OK | 123TMB,NAP,NBBNZ,NPBNZ,SBBNZ,TBA |
| 2A | 220444 | JD52507-12 | 1 | 100x | MS62506 | V8260TCL42 | 0.5/50 | | 1 | 8 | OK | +2v93015 |
| 2A | 220445 | JD52680-6 | 1 | 10x | MS62593 | V8260TCL20+, TBA | 5/50 | | 1 | 9 | OK/rr | o/d |
| 2A | 220446 | JD52507-13 | 1 | 100x | MS62506 | V8260TCL42 | 0.5/50 | | 1 | 10 | OK | +2v93015 |
| 2A | 220447 | JD52514-12 | 2 | 5x | MS62508 | V8260TCL42 | 10/50 | | 1 | 11 | OK | +2a220449 |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2A | 220448 | JD52680-4 | 1 | 10x | MS62593 | V8260TCL20+, TBA | 5/50 | | 1 | 12 | OK/rr | 10x/100x ccit and c/o and f/d |
| 2A | 220449 | JD52514-12 | 2 | 50x | MS62508 | V8260TCL42 | 1/50 | | 1 | 13 | OK | |
| 2A | 220450 | JD52602-3 | 8 | NA | MS62550 | V8260TCL | 5 | | 1 | 14 | OK | +3d182123 |
| 2A | 220451 | JD52514-12MS | 2 | 5x | MS62508 | V8260TCL42 | 10/50 | | 1 | 15 | OK | 25uL abk ec aa / 50mL |
| 2A | 220452 | JD52514-12MSD | 2 | 5x | MS62508 | V8260TCL42 | 10/50 | | 1 | 16 | OK | 25uL abk ec aa / 50mL |
| 2A | 220453 | IB | | NA | | | 5 | | | 17 | OK | |
| 2A | 220454 | JD52661-2 | 2 | NA | MS62593 | V8260SL2 | 5 | | 1 | 18 | OK | |
| 2A | 220455 | JD52602-5 | 8 | NA | MS62550 | V8260TCL | 5 | | 1 | 19 | OK | |
| 2A | 220456 | JD52602-6 | 7 | NA | MS62550 | V8260TCL | 5 | | 1 | 20 | OK | |
| 2A | 220457 | JD52602-7 | 8 | NA | MS62550 | V8260TCL | 5 | | 1 | 21 | OK | |
| 2A | 220458 | JD52661-1 | 13 | NA | MS62593 | V8260SL2 | 5 | | 1 | 22 | OK | |
| 2A | 220459 | JD52680-1 | 1 | NA | MS62593 | V8260TCL20+, TBA | 5 | | 1 | 23 | OK | |
| 2A | 220460 | JD52680-3 | 2 | NA | MS62593 | V8260TCL20+, TBA | 5 | | 1 | 24 | OK/rr | cchit |
| 2A | 220461 | JD52680-2 | 1 | 4x | MS62593 | V8260TCL20+, TBA | 12.5/50 | | 1 | 25 | OK/rr | cchit |
| 2A | 220462 | JD52680-5 | 2 | 4x | MS62593 | V8260TCL20+, TBA | 12.5/50 | | 1 | 26 | OK/rr | 8:49pm cchit |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | Column | Rxi-624(30mx0.25mmx1.4um) |
|---|---|---|---|---|---|---|
| Standard lot# | ABK: V022-2752-74.45 | EC: V022-2752-99.1 | AA: V022-2752-81.45 | Ext.Chlorodifluoromethane: V022-2752-75 | Method | V8260D |
| Standard concentration | 100-10,000ppm | 100ppm | 100ppm | 100ppm | Init Calib Date | 9/11/2022 |
| Standard expiration date | 9/23/2022 | 9/14/2022 | 9/26/2020 | 9/23/2022 | | |
| Internal/surrogate lot# | V022-2752-94 | | | | | |
| Internal/surrogate concentration | 50/500ppm | | | | Analysis Date | 9/11/2022 |
| Internal/surrogate expiration date | 10/3/2022 | | | | Sequence loaded by | Prashant B. Shukla |
| Ext.Standard lot# | Ext.ABK: V022-2752-101.2 | Ext.EC: V022-2752-97.1 | Ext.Acrolein: V022-2752-76.9 | Ext.PA: V022-2752-83.3 | Data processed by | Mohui Huang |
| Standard concentration | 100-10,000ppm | 100ppm | 100ppm | 100-1,000ppm | Batch ID | V2V3747 |
| Standard expiration date | 10/8/2022 | 9/13/2022 | 9/26/2022 | 9/30/2022 | Matrix | AQ |
| Rough reviewed by | | | | | Approved By: | KANYAV |
| pH Paper(wide-range) lot# 222221 | Exp. Date: 8/1/2024 | | Initial Calibration Method | M2V3747 | Approved Date: | 9/13/2022 1:51:47 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2V | 92136 | BFB | | NA | | TUNE | 5 | | | 1 | ok | 2:53 PM |
| 2V | 92138 | IC3747-0.2 | | NA | | ICC 8260 WATER | 5 | | | 2 | ok | 1uL Std.A/B/K,EC,AA in 500mL DI H2O |
| 2V | 92140 | IC3747-0.5 | | NA | | ICC 8260 WATER | 5 | | | 3 | ok | 1uL Std.A/B/K,EC,AA in 200mL DI H2O |
| 2V | 92142 | IC3747-1 | | NA | | ICC 8260 WATER | 5 | | | 4 | ok | 1uL Std.A/B/K,EC,AA in 100mL DI H2O |
| 2V | 92144 | IC3747-2 | | NA | | ICC 8260 WATER | 5 | | | 5 | ok | 1uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 2V | 92146 | IC3747-4 | | NA | | ICC 8260 WATER | 5 | | | 6 | ok | 2uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 2V | 92148 | IC3747-8 | | NA | | ICC 8260 WATER | 5 | | | 7 | ok | 4uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 2V | 92150 | IC3747-20 | | NA | | ICC 8260 WATER | 5 | | | 8 | ok | 10uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 2V | 92152 | ICC3747-50 | | NA | | ICC 8260 WATER | 5 | | | 9 | ok | 25uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 2V | 92154 | IC3747-100 | | NA | | ICC 8260 WATER | 5 | | | 10 | ok | 50uL Std.A/B/K,EC,AA in 50mL DI H2O |
| 2V | 92156 | IC3747-200 | | NA | | ICC 8260 WATER | 5 | | | 11 | ok | 100uL Std.A/B/K,EC,AA in 50mL DI H2O |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2V | 92158 | IB | | NA | | | 5 | | | 12 | OK | |
| 2V | 92160 | IB | | NA | | | 5 | | | 13 | OK | |
| 2V | 92162 | ICV3747-50 | | NA | | ICV 8260 WATER | 5 | | | 14 | ok | 25uL Ext.A/B/K,EC,Acrolein, in 50mL DI H2O |
| 2V | 92164 | ICV3747-50 | | NA | | ICV 8260 WATER | 5 | | | 15 | ok | 25uL Ext.PA,Chlorodifluoromethane in 50mL DI H2O |
| 2V | 92166 | IB | | NA | | | 5 | | | 16 | OK | |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | Column | Rxi-624(30mx0.25mmx1.4um) |
|---|---|---|---|---|---|---|
| Standard lot# | ABK: V022-2752-121.1 | EC: V022-2752-122.2 | AA: V022-2752-125.8 | | Method | V8260D |
| Standard concentration | 100-10,000ppm | 100ppm | 100ppm | | Init Calib Date | 8/3/2022 |
| Standard expiration date | 10/21/2022 | 9/29/2022 | 10/27/2022 | | | |
| Internal/surrogate lot# | V022-2752-94 | | | | | |
| Internal/surrogate concentration | 50/500ppm | | | | Analysis Date | 9/27/2022 |
| Internal/surrogate expiration date | 10/3/2022 | | | | Sequence loaded by | kylem |
| | | | | | Data processed by | kinjald/nelsonf |
| | | | | | Batch ID | V2V3773 |
| Rough reviewed by | | | | | Matrix | AQ |
| | | | | | Approved By: | MEI |
| pH Paper(wide-range) lot# 222221 | Exp. Date: 8/1/2024 | | Initial Calibration Method | M2V3747 | Approved Date: | 9/30/2022 10:27:09 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2v | 92879 | IB | | NA | | | 5 | | | 1 | ok | |
| 2v | 92880 | BFB/CC3747-50 | | NA | | | 5 | | | 2 | ok/ok | 50uL abk, ec, aa / 100mL; 9:00pm |
| 2v | 92881 | CC3747-1 | | NA | | | 5 | | | 3 | ok | 1uL abk, ec, aa / 100mL |
| 2v | 92882 | BS | | NA | | | 5 | | | 4 | ok | 50uL abk, ec, aa / 100mL |
| 2v | 92883 | IB | | NA | | | 5 | | | 5 | ok | |
| 2v | 92884 | MB | | NA | | | 5 | | | 6 | ok | |
| 2v | 92885 | JD52507-6 | 3 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 7 | ok | |
| 2v | 92886 | JD52507-6MS | 7 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 8 | ok | 20uL abk, ec, aa / 40mL |
| 2v | 92887 | JD52507-6MSD | 8 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 9 | ok | 20uL abk, ec, aa / 40mL |
| 2v | 92888 | IB | | NA | | | 5 | | | 10 | ok | |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2v | 92889 | JD52507-2 | 2 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 11 | ok | Checked client-ID |
| 2v | 92890 | JD52208-20 | 2 | NA | MS62481 | V8260TCL20 | 5 | | 1 | 12 | ok | |
| 2v | 92891 | JD52507-1 | 2 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 13 | ok | |
| 2v | 92892 | JD52507-3 | 1 | 50x | MS62506 | V8260TCL42 | 1/50 | | 1 | 14 | rr | o/d |
| 2v | 92893 | JD52507-4 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 15 | ok | |
| 2v | 92894 | JD52507-5 | 2 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 16 | ok | |
| 2v | 92895 | JD52507-7 | 2 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 17 | ok | |
| 2v | 92896 | JD52208-17 | 14 | NA | MS62481 | V8260TCL20 | 5 | | 1 | 18 | rr | f/d |
| 2v | 92897 | JD52208-18 | 18 | NA | MS62481 | V8260TCL20 | 5 | | 1 | 19 | rr | c/o |
| 2v | 92898 | JD52208-19 | 19 | NA | MS62481 | V8260TCL20 | 5 | | 1 | 20 | OK/rr | cc hit |
| 2v | 92899 | JD52474-1 | 2 | NA | MS62476 | V8260TCL20+ | 5 | | 1 | 21 | OK | |
| 2v | 92900 | JD52474-2 | 1 | NA | MS62476 | V8260TCL20+ | 5 | | 1 | 22 | OK | |
| 2v | 92901 | JD52474-3 | 2 | NA | MS62476 | V8260TCL20+ | 5 | | 1 | 23 | OK | |
| 2v | 92902 | JD52474-4 | 1 | NA | MS62476 | V8260TCL20+ | 5 | | 1 | 24 | OK | |
| 2v | 92903 | JD52474-5 | 2 | NA | MS62476 | V8260TCL20+ | 5 | | 1 | 25 | OK | |
| 2v | 92904 | JD52474-6 | 1 | NA | MS62476 | V8260TCL20+ | 5 | | 1 | 26 | OK | |
| 2v | 92905 | JD52474-7 | 2 | NA | MS62476 | V8260TCL20+ | 5 | | 1 | 27 | OK | |
| 2v | 92906 | JD52474-8 | 2 | NA | MS62476 | V8260TCL20+ | 5 | | 1 | 28 | OK | |
| 2v | 92907 | JD52208-16 | 15 | NA | MS62481 | V8260TCL20 | 5 | | 1 | 29 | OK | 7:28am |

# GCMS Volatile Run Log

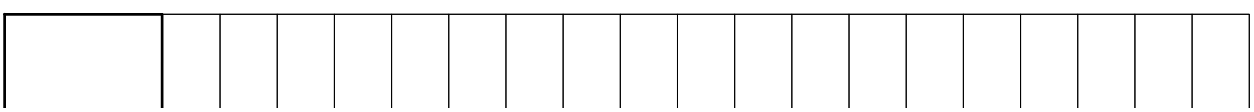
| Standard / Reagents | Lot # | | | | Column | Rxi-624(30mx0.25mmx1.4um) |
|---|---|---|---|---|---|---|
| Standard lot# | ABK: V022-2752-121.1 | EC: V022-2752-122.2 | AA: V022-2752-125.8 | | Method | V8260D |
| Standard concentration | 100-10,000ppm | 100ppm | 100ppm | | Init Calib Date | 8/3/2022 |
| Standard expiration date | 10/21/2022 | 9/29/2022 | 10/27/2022 | | | |
| Internal/surrogate lot# | V022-2752-94 | | | | | |
| Internal/surrogate concentration | 50/500ppm | | | | Analysis Date | 9/29/2022 |
| Internal/surrogate expiration date | 10/3/2022 | | | | Sequence loaded by | kylem |
| | | | | | Data processed by | Lotusa |
| | | | | | Batch ID | V2V3777 |
| Rough reviewed by | | | | | Matrix | AQ |
| | | | | | Approved By: | MOHUI |
| pH Paper(wide-range) lot# 222221 | Exp. Date: 8/1/2024 | | Initial Calibration Method | M2V3747 | Approved Date: | 10/5/2022 9:51:08 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2v | 92999 | IB | | NA | | | 5 | | | 1 | OK/OK | |
| 2v | 93000 | BFB/CC3747-50 | | NA | | | 5 | | | 2 | OK | 50uL abk, ec, aa / 100mL; 9:38pm |
| 2v | 93001 | CC3747-1 | | NA | | | 5 | | | 3 | OK | 1uL abk, ec, aa / 100mL |
| 2v | 93002 | BS | | NA | | | 5 | | | 4 | OK | 50uL abk, ec, aa / 100mL |
| 2v | 93003 | IB | | NA | | | 5 | | | 5 | OK | |
| 2v | 93004 | MB | | NA | | | 5 | | | 6 | OK | |
| 2v | 93005 | JD52507-10 | 7 | 100x | MS62506 | V8260TCL42 | 0.5/50 | | 1 | 7 | OK/RR | O/D |
| 2v | 93006 | JD52507-10MS | 7 | 100x | MS62506 | V8260TCL42 | 0.5/50 | | 1 | 8 | OK | 25uL abk, ec, aa / 50mL |
| 2v | 93007 | JD52507-10MSD | 7 | 100x | MS62506 | V8260TCL42 | 0.5/50 | | 1 | 9 | OK | 25uL abk, ec, aa / 50mL |
| 2v | 93008 | IB | | NA | | | 5 | | | 10 | OK | |

ix1.4um)

PM

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2v | 93009 | JD52507-14 | 2 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 11 | OK | checked Client-ID |
| 2v | 93010 | JD52507-23 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 12 | OK | |
| 2v | 93011 | JD52507-33 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 13 | OK | |
| 2v | 93012 | JD52507-36 | 2 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 14 | OK | No client-ID on vial |
| 2v | 93013 | JD52507-9 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 15 | OK | |
| 2v | 93014 | JD52507-11 | 2 | 100x | MS62506 | V8260TCL42 | 0.5/50 | | 1 | 16 | OK | |
| 2v | 93015 | JD52507-12 | 2 | 10x | MS62506 | V8260TCL42 | 5/50 | | 1 | 17 | OK/RR | F/D |
| 2v | 93016 | JD52507-13 | 2 | 10x | MS62506 | V8260TCL42 | 5/50 | | 1 | 18 | OK/RR | F/D |
| 2v | 93017 | JD52507-24 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 19 | OK | |
| 2v | 93018 | JD52507-25 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 20 | OK | |
| 2v | 93019 | JD52507-26 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 21 | OK | |
| 2v | 93020 | JD52507-27 | 2 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 22 | OK | |
| 2v | 93021 | JD52507-28 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 23 | OK | |
| 2v | 93022 | JD52507-29 | 2 | 50x | MS62506 | V8260TCL42 | 1/50 | | 1 | 24 | OK | |
| 2v | 93023 | JD52507-30 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 25 | OK/RR | F/D |
| 2v | 93024 | JD52507-31 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 26 | OK/RR | F/D |
| 2v | 93025 | JD52507-32 | 2 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 27 | OK/RR | C/O |
| 2v | 93026 | JD52507-34 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 28 | OK/RR | C/O |
| 2v | 93027 | JD52507-8 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 29 | OK/RR | F/D; t; 8:05am |



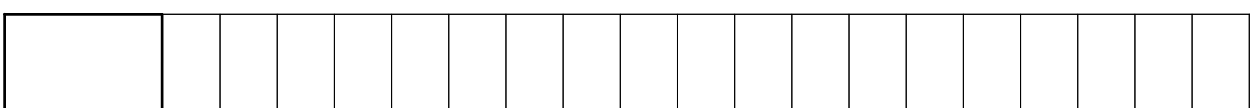
# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | Column | Rxi-624(30mx0.25mmx1.4um) |
|---|---|---|---|---|---|---|
| Standard lot# | ABK: V022-2752-121.1 | EC: V022-2752-132.11 | AA: V022-2752-125.8 | | Method | v8260d |
| Standard concentration | 100-10,000ppm | 100ppm | 100ppm | | Init Calib Date | 8/3/2022 |
| Standard expiration date | 10/21/2022 | 10/5/2022 | 10/27/2022 | | | |
| Internal/surrogate lot# | V022-2752-94 | | | | | |
| Internal/surrogate concentration | 50/500ppm | | | | Analysis Date | 10/3/2022 |
| Internal/surrogate expiration date | 10/3/2022 | | | | Sequence loaded by | taylors |
| | | | | | Data processed by | kinjald/davem1 |
| | | | | | Batch ID | V2V3782 |
| Rough reviewed by | | | | | Matrix | AQ |
| | | | | | Approved By: | MOHUI |
| pH Paper(wide-range) lot# 222221 | Exp. Date: 8/1/2024 | | Initial Calibration Method | M2V3747 | Approved Date: | 10/5/2022 9:34:16 PM |

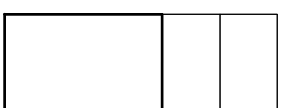
| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2V | 93122 | IB | | NA | | | 5 | | | 1 | ok | |
| 2V | 93123 | IB | | NA | | | 5 | | | 2 | ok | |
| 2V | 93124 | IB | | NA | | | 5 | | | 3 | ok | |
| 2V | 93125 | BFB/CC3747-20 | | NA | | | 5 | | | 4 | ok/ok | 11:49am, 20 ul abk, aa, ec / 100 ml |
| 2V | 93126 | BS | | NA | | | 5 | | | 5 | ok | 50 ul abk, aa, ec / 100 ml |
| 2V | 93127 | IB | | NA | | | 5 | | | 6 | ok | |
| 2V | 93128 | MB | | NA | | | 5 | | | 7 | ok | |
| 2V | 93129 | JD52572-8 | 2 | NA | MS62546 | V8260TCL20+ | 5 | | 2 | 8 | ok | |
| 2V | 93130 | JD52507-31 | 2 | 20x | MS62506 | V8260TCL42 | 2.5/50 | | 1 | 9 | ok | +2V93024 |
| 2V | 93131 | JD52507-30 | 2 | 20x | MS62506 | V8260TCL42 | 2.5/50 | | 1 | 10 | ok | +2V93023 |

ix1.4um)
1
PM

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2V | 93132 | JD52541-8 | 4 | 10x | MS62502 | V8260BTXMTN | 5/50 | | 1 | 11 | ok | +L347540 |
| 2V | 93133 | JD52507-37 | 1 | 5x | MS62506 | V8260TCL42 | 10/50 | | 1 | 12 | rr | cc hit |
| 2V | 93134 | JD52730-7 | 6 | 4x | MS62629 | V8260TCL42+ | 12.5/50 | | 1 | 13 | rr | f/d |
| 2V | 93135 | JD52541-14 | 4 | 100x | MS62502 | V8260BTXMTN | 0.5/50 | | 1 | 14 | ok | +L347539 |
| 2V | 93136 | JD52507-32 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 15 | ok | |
| 2V | 93137 | JD52507-34 | 2 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 16 | ok | |
| 2V | 93138 | JD52602-7 | 7 | NA | MS62550 | V8260TCL | 5 | | 1 | 17 | ok | |
| 2V | 93139 | JD52730-3 | 7 | NA | MS62629 | V8260TCL42+ | 5 | | 1 | 18 | ok | |
| 2V | 93140 | JD52730-7MS | 6 | 4x | MS62629 | V8260TCL42+ | 12.5/50 | | 1 | 19 | ok | 25 ul abk, aa, ec / 50 ml |
| 2V | 93141 | JD52730-7MSD | 6 | 4x | MS62629 | V8260TCL42+ | 12.5/50 | | 1 | 20 | ok | 25 ul abk, aa, ec / 50 ml |
| 2V | 93142 | JD52507-30 | 2 | 200x | MS62506 | V8260TCL42 | 0.25/50 | | 1 | 21 | ok | |
| 2V | 93143 | JD52730-3 | 7 | 10x | MS62629 | V8260TCL42+, TBA, THF | 5/50 | | 1 | 22 | not need | not used; too dilute |
| 2V | 93144 | JD52730-9 | 8 | NA | MS62629 | V8260TCL42+, TBA, THF | 5 | | 1 | 23 | ok | |
| 2V | 93145 | JD52730-10 | 7 | NA | MS62629 | V8260TCL42+, TBA, THF | 5 | | 1 | 24 | ok | |
| 2V | 93146 | JD52507-35 | 1 | NA | MS62506 | V8260TCL42 | 5 | | 1 | 25 | ok | |
| 2V | 93147 | JD52730-1 | 6 | NA | MS62629 | V8260TCL42+, TBA, THF | 5 | | 1 | 26 | ok | |
| 2V | 93148 | JD52730-2 | 6 | NA | MS62629 | V8260TCL42+, TBA, THF | 5 | | 1 | 27 | ok | |
| 2V | 93149 | JD52730-4 | 8 | NA | MS62629 | V8260TCL42+, TBA, THF | 5 | | 1 | 28 | ok | |
| 2V | 93150 | JD52730-5 | 9 | NA | MS62629 | V8260TCL42+, TBA, THF | 5 | | 1 | 29 | ok | |



| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2V | 93151 | JD52730-6 | 7 | NA | MS62629 | V8260TCL42+, TBA, THF | 5 | | 1 | 30 | ok | |
| 2V | 93152 | JD52730-8 | 9 | NA | MS62629 | V8260TCL42+, TBA, THF | 5 | | 1 | 31 | ok/dl | 10:23pm, rr 20x f/d |



# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | Column | Rxi-624(60mx0.25mmx1.4um) |
|---|---|---|---|---|---|---|
| Standard | ABK: V022-2747-89.69 | EC: V022-2747-132.9 | AA: V022-2747-107.18 | | Method | V8260D |
| Standard Concentration | 100-10,000ppm | 100ppm | 100ppm | | Init Calib Date | 6/15/22 |
| Expiration Date | 6/16/22 | 6/22/22 | 6/27/2022 | | | |
| Internal Surrogate | V022-2747-129 | | EXT Chlorodifluoromethane v022-2747-127.1 | EXT Chlorodifluoromethane | | |
| Internal Surrogate Concentration | 50/500ppm | | 100ppm | 100ppm | Analysis Date | 6/15/2022 |
| Expiration Date | 7/14/2022 | | 7/11/22 | 7/11/22 | Sequence loaded by | Bridget Kelly |
| Standard | EXT ABK v022-2747-91.5 | EXT EC v022-2747-122.5 | EXT Acro v022-2747-101.9 | EXT PA v022-2747-92.1 | Data processed by | Bridget Kelly |
| Standard Concentration | 100-10,000ppm | 100ppm | 100ppm | 100/1000ppm | Batch ID | VL10355 |
| Expiration Date | 6/17/22 | 6/16/22 | 6/23/22 | 6/17/22 | Matrix | AQ |
| | | | | | Approved By: | KANYAV |
| pH paper Lot# (wide range): | 222221 | 81/2024 | Initial Calibration Method | ML10355 | Approved Date: | 6/21/2022 4:02:04 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | 342966 | IB | | NA | | | 5 | | | 1 | ok | |
| I | 342967 | BFB | | NA | | | 5 | | | 2 | ok | |
| I | 342968 | IC10355-0.2 | | NA | | V8260 initial calibration | 5 | | | 3 | ok | 2 uL ABK EC AA / 1000 mL |
| I | 342969 | IC10355-0.5 | | NA | | V8260 initial calibration | 5 | | | 4 | ok | 5 uL ABK EC AA / 1000 mL |
| I | 342970 | IC10355-1 | | NA | | V8260 initial calibration | 5 | | | 5 | ok | 1 uL ABK EC AA / 100 mL |
| I | 342971 | IC10355-2 | | NA | | V8260 initial calibration | 5 | | | 6 | ok | 2 uL ABK EC AA / 100 mL |
| I | 342972 | IC10355-4 | | NA | | V8260 initial calibration | 5 | | | 7 | ok | 4 uL ABK EC AA / 100 mL |
| I | 342973 | IC10355-8 | | NA | | V8260 initial calibration | 5 | | | 8 | ok | 8 uL ABK EC AA / 100 mL |
| I | 342974 | IC10355-20 | | NA | | V8260 initial calibration | 5 | | | 9 | ok | 20 uL ABK EC AA / 100 mL |
| I | 342975 | ICC10355-50 | | NA | | V8260 initial calibration | 5 | | | 10 | ok | 50 uL ABK EC AA / 100 mL |
| I | 342976 | IC10355-100 | | NA | | V8260 initial calibration | 5 | | | 11 | ok | 100 uL ABK EC AA / 100 mL |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | 342977 | IC10355-200 | | NA | | V8260 initial calibration | 5 | | | 12 | ok | 200 uL ABK EC AA / 100 mL |
| I | 342978 | IB | | NA | | | 5 | | | 13 | ok | |
| I | 342979 | IB | | NA | | | 5 | | | 14 | ok | |
| I | 342980 | ICV10355-50 | | NA | | V8260 initial calibration | 5 | | | 15 | ok | 50 uL EXT ABK EC Acro / 100 mL |
| I | 342981 | ICV10355-50 | | NA | | V8260 initial calibration | 5 | | | 16 | ok | 50 uL EXT PA Chlorodifluoromethane / 100 mL |
| I | 342982 | IB | | NA | | | 5 | | | 17 | ok | |
| I | 342983 | IB | | NA | | | 5 | | | 18 | ok | |
| I | 342984 | BFB2 | | NA | | | 5 | | | 19 | ok | |
| I | 342985 | ICV10355-50 | | NA | | V8260 initial calibration | 5 | | | 20 | ok | 50 uL EXT Chlorodifluoromethane / 100 mL |

# GCMS Volatile Run Log

| Standard / Reagents | Lot # | | | | | |
|---|---|---|---|---|---|---|
| Standard | ABK: V022-2752-121.7 | EC: V022-2752-132.7 | AA:V022-2752-125.4 | | Column | Rxi-624(60mx0.25mmx1.4um) |
| Standard Concentration | 100-10,000ppm | 100ppm | 100ppm | | Method | V8260D |
| Expiration Date | 10/21/2022 | 10/5/2022 | 10/27/2022 | | Init Calib Date | 5/17/2022 |
| Internal Surrogate | V022-2752-136 | | | | | |
| Internal Surrogate Concentration | 50/500ppm | | | | Analysis Date | 10/4/2022 |
| Expiration Date | 10/30/2022 | | | | Sequence loaded by | nicoleh |
| | | | | | Data processed by | Lotusa/luckyc |
| | | | | | Batch ID | VL10519 |
| Rough reviewed by | | | | | Matrix | AQ |
| | | | | | Approved By: | MOHUI |
| pH paper Lot# (wide range): | 222221 | 81/2024 | Initial Calibration Method | ML10355 | Approved Date: | 10/7/2022 12:02:17 PM |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 347826 | IB | | NA | | | 5 | | | 1 | OK | |
| L | 347827 | CC10355-20 | | NA | | | 5 | | | 2 | NG | FAILED HIGH |
| L | 347828 | IB | | NA | | | 5 | | | 3 | OK | |
| L | 347829 | BFB/CC10355-20 | | NA | | | 5 | | | 4 | OK/OK | 10:21AM 20uL ABK EC AA / 100mL |
| L | 347830 | CC10355-1 | | NA | | | 5 | | | 5 | OK | 1uL ABK EC AA / 100mL |
| L | 347831 | BS | | NA | | | 5 | | | 6 | OK | 50uL ABK EC AA / 100mL |
| L | 347832 | BSD | | NA | | | 5 | | | 7 | OK | 50uL ABK EC AA / 100mL |
| L | 347833 | IB | | NA | | | 5 | | | 8 | OK | |
| L | 347834 | MB | | NA | | | 5 | | | 9 | OK | |
| L | 347835 | JD52514-11 | 2 | 50x | MS62508 | V8260TCL42 | 1/50 | | 1 | 10 | OK | double checked client ids +4D121706 |
| L | 347836 | JD52507-37 | 2 | 50x | MS62506 | V8260TCL42 | 1/50 | | 1 | 11 | OK | +L347837 |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 347837 | JD52507-37 | 2 | 5x | MS62506 | V8260TCL42 | 10/50 | | 1 | 12 | OK | |
| L | 347838 | JD52567-1 | 2 | 10x | MS62542 | V8260MCP | 5/50 | | 1 | 13 | OK | +1A226649 |
| L | 347839 | JD52626-24 | 2 | NA | MS62593 | V8260TCL20+, TBA | 5 | | 1 | 14 | OK | |
| L | 347840 | JD52711-7 | 1 | 10x | MS62614 | V8260MCP | 5/50 | | 1 | 15 | OK | +1A226643 |
| L | 347841 | JD52371-19 | 2 | NA | MS62425 | V8260SL | 5 | | 1 | 16 | OK | +1A226566 for ethanol, vinrl bromide and allyl chloride |
| L | 347842 | JD52711-8 | 1 | 10x | MS62614 | V8260MCP | 5/50 | | 1 | 17 | ok | +1A226657 |
| L | 347843 | JD52803-8 | 9 | NA | MS62647 | V8260NJTCL20+ | 5 | | 1 | 18 | ok | +1A226619 |
| L | 347844 | JD52624-4 | 4 | 100x | MS62562 | V8260TCL20+ | 0.5/50 | | 1 | 19 | ok | +1A226629 |
| L | 347845 | JD52701-4 | 2 | 2.5x | MS62586 | v8260btx,vls | 20/50 | | 1 | 20 | ok | |
| L | 347846 | JD52624-5 | 11 | 500x | MS62562 | V8260TCL20+ | 0.1/50 | | 1 | 21 | ok | +1A226630 |
| L | 347847 | JD52507-37MS | 2 | 5x | MS62506 | V8260TCL42 | 10/50 | | 1 | 22 | ok | 25uL ABK EC AA / 50mL |
| L | 347848 | JD52507-37MSD | 2 | 5x | MS62506 | V8260TCL42 | 10/50 | | 1 | 23 | ok | 25uL ABK EC AA / 50mL |
| L | 347849 | IB | | NA | | | 5 | | | 24 | ok | |
| L | 347850 | JD52568-13 | 2 | NA | MS62610 | V8260SL | 5 | | 1 | 25 | ok | |
| L | 347851 | JD52568-14 | 4 | NA | MS62610 | V8260SL | 5 | | 1 | 26 | ok | |
| L | 347852 | JD52568-7 | 4 | NA | MS62610 | V8260SL | 5 | | 1 | 27 | ok | |
| L | 347853 | JD52689-5 | 2 | 100x | MS62592 | v8260tcl20,nap | 0.5/50 | | 1 | 28 | rr | f/d |
| L | 347854 | JD52689-6 | 2 | 100x | MS62592 | v8260tcl20,nap | 0.5/50 | | 1 | 29 | rr | f/d |
| L | 347855 | JD52689-1 | 1 | 100x | MS62592 | v8260tcl20,nap | 0.5/50 | | | 30 | rr | o/d and c/o 50x |
| L | 347856 | JD52689-2 | 1 | 100x | MS62592 | v8260tcl20,nap | 0.4/40 | | | 31 | rr | o/d and c/o 50x PURGE VOLUME DUE TO LIMITED SAMPLE VOLUME |

| Data File | | Sample ID | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 347857 | JD52689-3 | 1 | 100x | MS62592 | v8260tcl20,nap | 0.4/40 | | | 32 | rr | o/d and c/o 50x PURGE VOLUME DUE TO LIMITED SAMPLE VOLUME |
| L | 347858 | JD52689-4 | 1 | 100x | MS62592 | v8260tcl20,nap | 0.4/40 | | | 33 | rr | 9:56pmf/d PURGE VOLUME DUE TO LIMITED SAMPLE VOLUME |

# APPENDIX

# B DATA USABILITY SUMMARY REPORTS

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- EPA Region 2 Data Validation SOP No. HW-34A, Revision 1

Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

| Project ID | Lab Work Order | Laboratory Report |
|---|---|---|
| 31401545.001.01 | JD52507 | SGS North America Inc. |

**Table 1 Sample Listing Summary**

| Work Order | Matrix | Sample ID | Lab ID | Sample Date | Field QC | ID Corrections |
|---|---|---|---|---|---|---|
| JD52507 | WH | EB-091922 | JD52507-2 | 09/19/2022 16:30:00 | EB | |
| JD52507 | WH | EB-092022 | JD52507-14 | 09/20/2022 16:50:00 | EB | |
| JD52507 | WH | EB-092222-1 | JD52507-23 | 09/22/2022 08:35:00 | EB | EB-092222 |
| JD52507 | WH | EB-092222-2 | JD52507-33 | 09/22/2022 13:10:00 | EB | EB-092222 |
| JD52507 | WG | EXB-10 | JD52507-6 | 09/20/2022 10:50:00 | MS/ MSD | |
| JD52507 | WG | EXB-11 | JD52507-37 | 09/21/2022 10:45:00 | | |
| JD52507 | WG | EXB-9 | JD52507-1 | 09/19/2022 14:00:00 | | |
| JD52507 | WG | MW-092022 | JD52507-13 | 09/20/2022 17:00:00 | FD | |
| JD52507 | WG | MW-092222 | JD52507-28 | 09/22/2022 08:00:00 | FD | |
| JD52507 | WG | MW-12C | JD52507-17 | 09/21/2022 09:50:00 | | |
| JD52507 | WG | MW-13C | JD52507-18 | 09/21/2022 10:00:00 | | |
| JD52507 | WG | MW-15C | JD52507-8 | 09/20/2022 14:40:00 | | |
| JD52507 | WG | MW-16-100 | JD52507-22 | 09/21/2022 17:25:00 | | |
| JD52507 | WG | MW-17-40 | JD52507-32 | 09/22/2022 11:15:00 | | |
| JD52507 | WG | MW-18A | JD52507-24 | 09/22/2022 10:10:00 | | |
| JD52507 | WG | MW-1B | JD52507-27 | 09/22/2022 10:45:00 | | |
| JD52507 | WG | MW-20B | JD52507-15 | 09/21/2022 09:20:00 | | |
| JD52507 | WG | MW-22B | JD52507-26 | 09/22/2022 10:30:00 | | |
| JD52507 | WG | MW-25A | JD52507-35 | 09/22/2022 14:20:00 | | |
| JD52507 | WG | MW-26A | JD52507-34 | 09/22/2022 14:10:00 | | |

| Work Order | Matrix | Sample ID | Lab ID | Sample Date | Field QC | ID Corrections |
|---|---|---|---|---|---|---|
| JD52507 | WG | MW-2B | JD52507-29 | 09/22/2022 11:00:00 | | |
| JD52507 | WG | MW-32B | JD52507-7 | 09/20/2022 13:50:00 | | |
| JD52507 | WG | MW-36B | JD52507-9 | 09/20/2022 14:45:00 | | |
| JD52507 | WG | MW-3B | JD52507-30 | 09/22/2022 11:10:00 | | |
| JD52507 | WG | MW-46-43C | JD52507-11 | 09/20/2022 15:05:00 | | |
| JD52507 | WG | MW-46-72C | JD52507-10 | 09/20/2022 14:55:00 | MS/ MSD | |
| JD52507 | WG | MW-4B | JD52507-20 | 09/21/2022 10:40:00 | | |
| JD52507 | WG | MW-5-100 | JD52507-19 | 09/21/2022 10:05:00 | | |
| JD52507 | WG | MW-5-25 | JD52507-4 | 09/20/2022 10:35:00 | | |
| JD52507 | WG | MW-5-40 | JD52507-3 | 09/20/2022 10:30:00 | | |
| JD52507 | WG | MW-50-160D | JD52507-12 | 09/20/2022 16:00:00 | | |
| JD52507 | WG | MW-5B | JD52507-31 | 09/22/2022 11:20:00 | | |
| JD52507 | WG | MW-7-40 | JD52507-21 | 09/21/2022 14:35:00 | | |
| JD52507 | WG | MW-7B | JD52507-16 | 09/21/2022 09:40:00 | | |
| JD52507 | WG | MW-8-40 | JD52507-25 | 09/22/2022 10:20:00 | | |
| JD52507 | WG | MW-8B | JD52507-5 | 09/20/2022 10:40:00 | | |
| JD52507 | WQ | TRIP BLANK | JD52507-36 | 09/22/2022 14:20:00 | TB | |

**Table 1A Sample Test Summary**

| Work Orders | Matrix | Test Method | Method Name | Number of Samples | Sample Type |
|---|---|---|---|---|---|
| JD52507 | WG | SW8260C | Volatile Organic Compounds by GC/MS | 30 | N |
| JD52507 | WG | SW8260C | Volatile Organic Compounds by GC/MS | 2 | FD |
| JD52507 | WQ | SW8260C | Volatile Organic Compounds by GC/MS | 1 | TB |
| JD52507 | WH | SW8260C | Volatile Organic Compounds by GC/MS | 4 | EB |
| JD52507 | WQ | SW8260C | Volatile Organic Compounds by GC/MS | 2 | MS/MSD |

| Data Usability Summary Report | Project: Former EPT Ithaca |
|---|---|
| Date Completed: April 13, 2023 | Completed by: Devon Richards, Nick Archer |

| General Sample Information | |
|---|---|
| Do Samples and Analyses on COC check against Lab Sample Tracking Form? | A "-1" was added to sample EB-092222 taken on 09/22/2022 at 08:35 and a "-2" was added to sample EB-092222 taken on 09/22/2022 at 13:10 to differentiate the sample results in the EDD. |
| Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form? | Yes. |
| Frequency of Field QC Samples Correct?<br>Field Duplicate - 1/20 samples<br>Trip Blank - Every cooler with VOCs<br>Equipment Blank - 1/20 samples | 2 FD per 30 samples.<br>2 MS/MSD per 30 samples.<br>1 trip blank.<br>2 equipment blanks. |
| Case narrative present and complete? | Yes. |
| Any holding time violations? | No. |

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- MS/MSD Outside Limits (Table 4)
- LCS and ICV/CCV Outside Limits (Table 5)
- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

**Go to Tables List**

| Volatile Organic Compounds by GC/MS – Method 8260C | |
|---|---|
| **Description** | **Notes and Qualifiers** |
| Any compounds present in method, trip, or, field blanks (see Table 2)? | Yes. |
| For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs. | Carbon disulfide was detected below the PQL in EB-091922. The associated samples were non-detect for the detected analyte therefore no qualifications were made.<br><br>Chloroform was detected above the PQL in TRIP BLANK. Samples EB-091922 and EB-092022 were U qualified as non-detect and the PQL was elevated to the sample result. Samples MW-13C, MW-32B, and MW-3B were U qualified as non-detect and the MDL was elevated to the sample result. |
| Are surrogates for method blanks and LCS within limits? | Yes. |
| Are surrogates for samples and MS/MSD within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established. | Yes. |
| Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples? | Yes. |
| Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix. | No.<br>Chloroethane and trichlorofluoromethane were recovered above the acceptance criteria in the MS and MSD for samples EXB-10 and MW-46-72C. The parent sample was non-detect; therefore, no qualification was made.<br><br>cis-1,2-Dichloroethene was recovered outside acceptance criteria in the MS and MSD for samples EXB-11. The associated sample result was greater than four times the spike amount; therefore, no qualification was made. |
| Is LCS within QC criteria (see Table 5A)? If out, and the recovery is high with no positive values, then no data qualification is required. | No.<br>Multiple analytes were recovered above acceptance criteria in multiple LCS. The associated sample results were non-detect; therefore, no qualifications were made. |
| Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)? | Yes. |
| Is initial calibration for target compounds <20 %RSD or curve fit? | Yes. |
| Is %D in the continuing calibration for target compounds less than method specifications? (see Table 5B) | No.<br>Multiple analytes were recovered outside of the acceptance criteria of +/- 20 %D in multiple CCVs. The associated sample results which were non-detect were UJ qualified as estimated non-detect and results which were detected were J qualified as estimated. |

| Data Usability Summary Report | Project: Former EPT Ithaca |
|---|---|
| Date Completed: April 13, 2023 | Completed by: Devon Richards, Nick Archer |

| Volatile Organic Compounds by GC/MS – Method 8260C | |
|---|---|
| **Description** | **Notes and Qualifiers** |
| Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged? | Multiple samples were diluted to bring the concentration of target analytes within calibration range. Elevated reporting limits were provided for the following samples which may impact screening criteria:<br>• MW-46-72C, MW-50-160D, EXB-11, MW-092022, MW-2B, MW-46-43C, and MW-5-40. |
| For TICs are there any system related compounds that should not be reported? | No. |
| Do field duplicate results show good precision for all compounds (see Table 7)? | Yes. |

**Summary of Findings**

VOCs by 8260C

- Chloroform was U qualified in samples MW-13C, MW-32B, MW-3B, EB-091922, and EB-092022 due to a detection in the associated trip blank.
- cis-1,2-Dichloroethene was recovered below acceptance criteria in the MS and MSD for sample MW-50-160D due to high level in sample relative to spike amount. The associated sample results were J qualified as a result.
- Multiple analytes were recovered outside of the acceptance criteria of +/- 20 %D in multiple CCVs. The associated sample results which were non-detect were UJ qualified as estimated non-detect and results which were detected were J qualified as estimated. See Table 5B for a summary of associated sample results.
- Multiple samples were diluted due to high concentration of target analytes. Elevated reporting limits were provided for multiple analytes in samples MW-46-72C, MW-50-160D, EXB-11, MW-092022, MW-2B, MW-46-43C, and MW-5-40.

**Table 2 - List of Positive Results for Blank Samples**

| Method | Sample Name | Sample Type | Analyte | Result | Qualifier | Units | MDL | PQL |
|---|---|---|---|---|---|---|---|---|
| 8260D | EB-091922 | EB | Carbon disulfide | 0.49 | J | ug/l | 0.46 | 2 |
| 8260D | TRIP BLANK | TB | Chloroform | 1.4 | | ug/l | 0.50 | 1 |

**Table 2A - List of Samples Qualified for Method Blank Contamination**

None.

**Table 2B - List of Samples Qualified for Field Blank Contamination**

| Method | Field Blank | Matrix | Analyte | Blank Result | Lab Qual | Sample Result | Sample Flag | MDL | PQL | Sample Name | Sample Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8260D | TRIP BLANK | WQ | Chloroform | 1.4 | | 2<br>2<br>0.52<br>0.63<br>0.8 | <br><br>J<br>J<br>J | 0.50 | 1 | EB-091922<br>EB-092022<br>MW-13C<br>MW-32B<br>MW-3B | U Flag |

**Table 3 - List of Samples with Surrogates outside Control Limits**

None.

**Table 4A – List of MS/MSD Recoveries outside Control Limits**

| Method | Parent Sample | Sample Type | Analyte | Orig. Result | Spike Amount | Dil Fac | Unit | Low Limit | High Limit | MS | MSD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8260D | MW-46-72C | MS | Chloroethane | ND | 5000 | 20 | ug/l | 48 | 152 | 182 | 124 | None – High & ND |
| 8260D | MW-46-72C | MS/MSD | Trichlorofluoromethane | ND | 5000 | 20 | ug/l | 61 | 145 | 161 | 154 | None – High & ND |
| 8260D | EXB-11 | MS/MSD | cis-1,2-Dichloroethene | 1830 | 250 | 50 | ug/l | 52 | 140 | -44 | -44 | None – 4X |
| 8260D | EXB-10 | MS | Chloroethane | ND | 50 | 1 | ug/l | 48 | 152 | 188 | 138 | None – High & ND |
| 8260D | EXB-10 | MS | Trichlorofluoromethane | ND | 50 | 1 | ug/l | 61 | 145 | 183 | 174 | None – High & ND |

**Table 4B – List of MS/MSD RPDs outside Control Limits**

| Method | Sample ID | Analyte | RPD | RPD Limit | Sample Flag |
|---|---|---|---|---|---|
| 8260D | MW-46-72C | Chloroethane | 38 | 17 | UJ |
| 8260D | EXB-10 | Chloroethane | 30 | 17 | UJ |
| 8260D | EXB-10 | Freon 113 | 18 | 14 | UJ |

**Table 5A - List of LCS Recoveries outside Control Limits**

| Method | Sample ID | Analyte | Rec. | Low Limit | High Limit | Associated Samples | Sample Qualifier |
|---|---|---|---|---|---|---|---|
| 8260D | V2V3773-BS | Trichlorofluoromethane | 173 | 67 | 134 | EB-091922<br>EXB-10<br>EXB-9<br>MW-32B<br>MW-5-25<br>MW-8B | None – High & ND |
| 8260D | V2V3777-BS | Chloroethane | 183 | 56 | 144 | EB-092022<br>MW-092022<br>MW-092222<br>MW-18A<br>MW-1B<br>MW-22B<br>MW-2B<br>MW-36B<br>MW-3B<br>MW-46-43C<br>MW-50-160D<br>MW-5B<br>MW-8-40<br>TRIP BLANK | None – High & ND |
| 8260D | V2V3777-BS | Trichlorofluoromethane | 163 | 67 | 134 | | |
| 8260D | V2V3782-BS | Bromomethane | 173 | 40 | 162 | MW-17-40<br>MW-25A<br>MW-26A | None – High & ND |
| 8260D | V2V3782-BS | Chloroethane | 199 | 56 | 144 | | |

**Table 5B – List of ICV/CCV Recoveries outside Control Limits**

| Method | Calibration ID | Matrix | Analyte | Associated Samples | %D Result | %D Limit | Sample Flag |
|---|---|---|---|---|---|---|---|
| 8260D | V2A9581-CC9511 | CCV | Acetone | MW-5-40 | -28.1 | 20 | UJ Flag |
| 8260D | V2A9581-CC9511 | CCV | 2-Butanone | | -21.2 | 20 | |
| 8260D | V1X8637-CC8636 | CCV | Bromomethane | MW-16-100<br>MW-5-100 | -23.0 | 20 | UJ Flag |
| 8260D | V2V3773-CC3747 | CCV | Chloroethane | EB-091922<br>EXB-10 | -35.8 | 20 | UJ Flag |

**Table 5B – List of ICV/CCV Recoveries outside Control Limits**

| Method | Calibration ID | Matrix | Analyte | Associated Samples | %D Result | %D Limit | Sample Flag |
|---|---|---|---|---|---|---|---|
| 8260D | V2V3773-CC3747 | CCV | Trichlorofluoromethane | EXB-9<br>MW-32B<br>MW-5-25<br>MW-8B | -73.6 | 20 | |
| 8260D | V2V3777-CC3747 | CCV | Chloromethane | EB-092022<br>EB-092222-1<br>EB-092222-2<br>MW-092022<br>MW-18A<br>MW-1B<br>MW-22B<br>MW-2B<br>MW-36B<br>MW-3B<br>MW-46-43C<br>MW-50-160D<br>MW-5B<br>MW-8-40<br>TRIP BLANK | 20.4 | 20 | UJ Flag |
| 8260D | V2V3777-CC3747 | CCV | Chloroethane | | -24.6 | 20 | |
| 8260D | V2V3777-CC3747 | CCV | Trichlorofluoromethane | | -58.4 | 20 | |
| 8260D | V2V3782-CC3747 | CCV | Vinyl chloride | MW-17-40<br>MW-25A<br>MW-26A | -38.7 | 20 | UJ Flag |
| 8260D | V2V3782-CC3747 | CCV | Bromomethane | MW-17-40<br>MW-25A<br>MW-26A | -59.2 | 20 | UJ Flag |
| 8260D | V2V3782-CC3747 | CCV | Chloroethane | | -60.1 | 20 | UJ Flag |
| 8260D | VL10519-CC10355 | CCV | Freon 113 | EXB-11 | -28.6 | 20 | UJ Flag |

**Table 6 –Samples that were Re-analyzed/Diluted**

| Sample ID | Lab ID | Method | Sample Type | Action |
|---|---|---|---|---|
| MW-15C | JD52507-8 | 8260D | N | 10X: Diluted due to bring the concentration of cis-1,2-dichloroethene within calibration range. |
| MW-3B | JD52507-30 | 8260D | N | 200X: Diluted due to bring the concentration of cis-1,2-dichloroethene and trichloroethene within calibration range. |

**Table 6 –Samples that were Re-analyzed/Diluted**

| Sample ID | Lab ID | Method | Sample Type | Action |
|---|---|---|---|---|
| MW-46-72C | JD52507-10 | 8260D | N | 100X: Diluted due to bring the concentration of cis-1,2-dichloroethene within calibration range. |
| MW-46-72C | JD52507-10 | 8260D | N | 20X: Diluted due to bring the concentration of target analytes within calibration range. Elevated reporting limits have been provided for multiple analytes. |
| MW-5-40 | JD52507-3 | 8260D | N | 50X: Diluted due to bring the concentration of cis-1,2-dichloroethene and vinyl chloride within calibration range. |
| MW-5-40 | JD52507-3 | 8260D | N | 10X: Diluted due to bring the concentration of target analytes within calibration range. Elevated reporting limits have been provided for multiple analytes. |
| MW-5B | JD52507-31 | 8260D | N | 20X: Diluted due to bring the concentration of cis-1,2-dichloroethene and trichloroethene within calibration range. |
| EXB-11 | JD52507-37 | 8260D | N | 50X: Diluted to bring the concentration of cis-1,2-dichloroethene within calibration range. |
| EXB-11 | JD52507-37 | 8260D | N | 5X: Diluted to bring the concentration of target analytes within calibration range. Elevated reporting limits have been provided for multiple analytes. |
| MW-092022 | JD52507-13 | 8260D | N | 100X: Diluted to bring the concentration of cis-1,2-dichloroethene within calibration range. |
| MW-092022 | JD52507-13 | 8260D | N | 10X: Diluted to bring the concentration of target analytes within calibration range. Elevated reporting limits have been provided for multiple analytes. |
| MW-13C | JD52507-18 | 8260D | N | 10X: Diluted to bring the concentration of trichloroethene within calibration range. |
| MW-2B | JD52507-29 | 8260D | N | 50X: Diluted to bring the concentration of target analytes within calibration range. Elevated reporting limits have been provided for multiple analytes. |
| MW-46-43C | JD52507-11 | 8260D | N | 100X: Diluted to bring the concentration of target analytes within calibration range. Elevated reporting limits have been provided for multiple analytes. |
| MW-50-160D | JD52507-12 | 8260D | N | 100X: Diluted to bring the concentration of cis-1,2-dichloroethene within calibration range. |
| MW-50-160D | JD52507-12 | 8260D | N | 10X: Diluted to bring the concentration of trichloroethene within calibration range. Elevated reporting limits have been provided for multiple analytes. |

**Table 7A – Summary of Field Duplicate Results**

| Method | Analyte | Unit | Matrix | PQL | MW-3B | MW-1222A | RPD | RPD Rating | Sample Qual |
|---|---|---|---|---|---|---|---|---|---|
| SW8260 | 1,1-Dichloroethene | ug/l | WG | 5 | 8.3 | 8.2 | 1.2% | Good | None |
| SW8260 | cis-1,2-Dichloroethene | ug/l | WG | 50 | 4990 | 4900 | 1.8% | Good | None |
| SW8260 | trans-1,2-Dichloroethene | ug/l | WG | 5 | 27.1 | 27.3 | 0.7% | Good | None |

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|---|---|
| Date Completed: April 13, 2023 | Completed by: Devon Richards, Nick Archer |

**Table 7A – Summary of Field Duplicate Results**

| Method | Analyte | Unit | Matrix | PQL | MW-3B | MW-1222A | RPD | RPD Rating | Sample Qual |
|---|---|---|---|---|---|---|---|---|---|
| SW8260 | Trichloroethene | ug/l | WG | 50 | 1170 | 1190 | 1.7% | Good | None |
| SW8260 | Vinyl chloride | ug/l | WG | 5 | 133 | 140 | 5.1% | Good | None |

**Table 7B – Summary of Field Duplicate Results**

| Method | Analyte | Unit | Matrix | PQL | EXB-10 | MW-121522 | RPD | RPD Rating | Sample Qual |
|---|---|---|---|---|---|---|---|---|---|
| SW8260 | Benzene | ug/l | WG | 0.5 | 0.91 | 0.93 | 2.2% | Good | None |
| SW8260 | cis-1,2-Dichloroethene | ug/l | WG | 1 | 1.8 | 1.7 | 5.7% | Good | None |
| SW8260 | Cyclohexane | ug/l | WG | 5 | 1.8 | 1.8 | 0.0% | Good | None |
| SW8260 | Methylcyclohexane | ug/l | WG | 5 | 1.4 | 1.1 | 24.0% | Good | None |
| SW8260 | Vinyl chloride | ug/l | WG | 1 | 0.97 | 1.1 | 12.6% | Good | None |

**Table 7C – Summary of Field Duplicate Results**

| Method | Analyte | Unit | Matrix | PQL | MW-50-160D | MW-092022 | RPD | RPD Rating | Sample Qual |
|---|---|---|---|---|---|---|---|---|---|
| SW8260 | cis-1,2-Dichloroethene | ug/l | WG | 100 | 3150 | 3200 | 1.6% | Good | None |
| SW8260 | trans-1,2-Dichloroethene | ug/l | WG | 10 | 17.1 | 16.8 | 1.8% | Good | None |
| SW8260 | Trichloroethene | ug/l | WG | 10 | 23 | 24 | 4.3% | Good | None |
| SW8260 | Vinyl chloride | ug/l | WG | 10 | 1120 | 1080 | 3.6% | Good | None |

**Table 7D – Summary of Field Duplicate Results**

| Method | Analyte | Unit | Matrix | PQL | MW-50-160D | MW-092222 | RPD | RPD Rating | Sample Qual |
|---|---|---|---|---|---|---|---|---|---|
| SW8260 | cis-1,2-Dichloroethene | ug/l | WG | 1 | 1.7 | 1.7 | 0.0% | Good | None |
| SW8260 | Trichloroethene | ug/l | WG | 1 | 2.5 | 2.7 | 7.7% | Good | None |

**Acronym List and Table Key**:

| | | |
|---|---|---|
| CCV | = | continuing calibration verification |
| COC | = | chain of custody |
| DUSR | = | data usability summary report |
| EPA | = | Environmental Protection Agency |
| FD | = | field duplicate |
| GC/MS | = | gas chromatography / mass spectrometry |
| ICV | = | initial calibration verification |
| LCS | = | laboratory control sample |
| MB | = | method blank |
| MDL | = | method detection limit |
| µg/L | = | micrograms per liter |
| MS | = | matrix spike |
| MSD | = | matrix spike duplicate |
| N | = | normal (field) sample |
| NC | = | not calculated |
| ND | = | not detected |
| PQL | = | practical quantitation limit |
| QA | = | quality assurance |
| QAPP | = | quality assurance project plan |
| QC | = | quality control |
| EB | = | equipment rinse blank |
| RPD | = | relative percent difference |
| RL | = | reporting limit |
| SDG | = | sample delivery group |
| TB | = | trip blank |
| TRG | = | target compound |
| %D | = | percent difference |
| %RSD | = | percent relative standard deviation |

| #data_provider | sys_sample_code | sample_name | sample_matrix_code | sample_type_code | sample_source | parent_sample_code | sample_delivery_group | sample_date | sys_loc_code | start_depth | end_depth | depth_unit | chain_of_custody | sent_to_lab_date | sample_receipt_date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WSP | EB-091922-ACTD-JD52507AQ | EB-091922 | WH | EB | FIELD | | JD52507 | 09/19/2022 16:30:00 | | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | EB-092022-ACTD-JD52507AQ | EB-092022 | WH | EB | FIELD | | JD52507 | 09/20/2022 16:50:00 | | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | EB-092222-1-ACTD-JD52507AQ | EB-092222-1 | WH | EB | FIELD | | JD52507 | 09/22/2022 08:35:00 | | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | EB-092222-2-ACTD-JD52507AQ | EB-092222-2 | WH | EB | FIELD | | JD52507 | 2022/9/22 13:10:00 | | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | EXB-10-ACTD-JD52507AQ | EXB-10 | WG | N | FIELD | | JD52507 | 09/20/2022 10:50:00 | EXB-10 | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | EXB-11-ACTD-JD52507AQ | EXB-11 | WG | N | FIELD | | JD52507 | 09/21/2022 10:45:00 | EXB-11 | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | EXB-9-ACTD-JD52507AQ | EXB-9 | WG | N | FIELD | | JD52507 | 09/19/2022 14:00:00 | EXB-9 | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-092022-ACTD-JD52507AQ | MW-092022 | WG | FD | FIELD | MW-50-160D | JD52507 | 09/20/2022 17:00:00 | MW-50-160D | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-092222-ACTD-JD52507AQ | MW-092222 | WG | FD | FIELD | MW-1B | JD52507 | 09/22/2022 08:00:00 | MW-1B | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-12C-ACTD-JD52507AQ | MW-12C | WG | N | FIELD | | JD52507 | 09/21/2022 09:50:00 | MW-12C | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-13C-ACTD-JD52507AQ | MW-13C | WG | N | FIELD | | JD52507 | 09/21/2022 10:00:00 | MW-13C | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-15C-ACTD-JD52507AQ | MW-15C | WG | N | FIELD | | JD52507 | 09/20/2022 14:40:00 | MW-15C | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-16-100-ACTD-JD52507AQ | MW-16-100 | WG | N | FIELD | | JD52507 | 09/21/2022 17:25:00 | MW-16-100 | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-17-40-ACTD-JD52507AQ | MW-17-40 | WG | N | FIELD | | JD52507 | 09/22/2022 11:15:00 | MW-17-40 | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-18A-ACTD-JD52507AQ | MW-18A | WG | N | FIELD | | JD52507 | 09/22/2022 10:10:00 | MW-18A | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-1B-ACTD-JD52507AQ | MW-1B | WG | N | FIELD | | JD52507 | 09/22/2022 10:45:00 | MW-1B | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-20B-ACTD-JD52507AQ | MW-20B | WG | N | FIELD | | JD52507 | 09/21/2022 09:20:00 | MW-20B | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-22B-ACTD-JD52507AQ | MW-22B | WG | N | FIELD | | JD52507 | 09/22/2022 10:30:00 | MW-22B | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-25A-ACTD-JD52507AQ | MW-25A | WG | N | FIELD | | JD52507 | 09/22/2022 14:20:00 | MW-25A | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-26A-ACTD-JD52507AQ | MW-26A | WG | N | FIELD | | JD52507 | 09/22/2022 14:10:00 | MW-26A | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-2B-ACTD-JD52507AQ | MW-2B | WG | N | FIELD | | JD52507 | 09/22/2022 11:00:00 | MW-2B | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-32B-ACTD-JD52507AQ | MW-32B | WG | N | FIELD | | JD52507 | 09/20/2022 13:50:00 | MW-32B | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-36B-ACTD-JD52507AQ | MW-36B | WG | N | FIELD | | JD52507 | 09/20/2022 14:45:00 | MW-36B | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-3B-ACTD-JD52507AQ | MW-3B | WG | N | FIELD | | JD52507 | 09/22/2022 11:10:00 | MW-3B | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-46-43C-ACTD-JD52507AQ | MW-46-43C | WG | N | FIELD | | JD52507 | 09/20/2022 15:05:00 | MW-46-43C | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-46-72C-ACTD-JD52507AQ | MW-46-72C | WG | N | FIELD | | JD52507 | 09/20/2022 14:55:00 | MW-46-72C | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-4B-ACTD-JD52507AQ | MW-4B | WG | N | FIELD | | JD52507 | 09/21/2022 10:40:00 | MW-4B | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-5-100-ACTD-JD52507AQ | MW-5-100 | WG | N | FIELD | | JD52507 | 09/21/2022 10:05:00 | MW-5-100 | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-5-25-ACTD-JD52507AQ | MW-5-25 | WG | N | FIELD | | JD52507 | 09/20/2022 10:35:00 | MW-5-25 | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-5-40-ACTD-JD52507AQ | MW-5-40 | WG | N | FIELD | | JD52507 | 09/20/2022 10:30:00 | MW-5-40 | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-50-160D-ACTD-JD52507AQ | MW-50-160D | WG | N | FIELD | | JD52507 | 09/20/2022 16:00:00 | MW-50-160D | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-5B-ACTD-JD52507AQ | MW-5B | WG | N | FIELD | | JD52507 | 09/22/2022 11:20:00 | MW-5B | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-7-40-ACTD-JD52507AQ | MW-7-40 | WG | N | FIELD | | JD52507 | 09/21/2022 14:35:00 | MW-7-40 | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-7B-ACTD-JD52507AQ | MW-7B | WG | N | FIELD | | JD52507 | 09/21/2022 09:40:00 | MW-7B | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-8-40-ACTD-JD52507AQ | MW-8-40 | WG | N | FIELD | | JD52507 | 09/22/2022 10:20:00 | MW-8-40 | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | MW-8B-ACTD-JD52507AQ | MW-8B | WG | N | FIELD | | JD52507 | 09/20/2022 10:40:00 | MW-8B | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | TRIP BLANK-ACTD-JD52507AQ | TRIP BLANK | WG | TB | FIELD | | JD52507 | 09/22/2022 14:20:00 | | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | JD52507-10MS-ACTD-JD52507A | MW-46-72C | WQ | MS | LAB | MW-46-72C-ACTD-JD52 | JD52507 | 09/20/2022 14:55:00 | MW-46-72C | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | JD52507-37MS-ACTD-JD52507A | EXB-11 | WQ | MS | LAB | EXB-11-ACTD-JD52507A | JD52507 | 09/21/2022 10:45:00 | EXB-11 | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | JD52507-6MS-ACTD-JD52507AQ | EXB-10 | WQ | MS | LAB | EXB-10-ACTD-JD52507A | JD52507 | 09/20/2022 10:50:00 | EXB-10 | | | | | 09/24/2022 00:00:00 | 09/24/2022 00:00:00 |
| WSP | V1A9698-BS-ACTD-JD52507AQ | V1A9698-BS | WQ | LCS | LAB | | JD52507 | 09/27/2022 10:32:00 | | | | | | | |
| WSP | V1A9698-MB-ACTD-JD52507AQ | V1A9698-MB | WQ | LB | LAB | | JD52507 | 09/27/2022 11:28:00 | | | | | | | |
| WSP | V1A9705-BS-ACTD-JD52507AQ | V1A9705-BS | WQ | LCS | LAB | | JD52507 | 09/30/2022 11:38:00 | | | | | | | |
| WSP | V1A9705-MB-ACTD-JD52507AQ | V1A9705-MB | WQ | LB | LAB | | JD52507 | 09/30/2022 12:29:00 | | | | | | | |
| WSP | V1X8637-BS-ACTD-JD52507AQ | V1X8637-BS | WQ | LCS | LAB | | JD52507 | 09/29/2022 10:34:00 | | | | | | | |
| WSP | V1X8637-MB-ACTD-JD52507AQ | V1X8637-MB | WQ | LB | LAB | | JD52507 | 09/29/2022 11:20:00 | | | | | | | |
| WSP | V2A9581-BS-ACTD-JD52507AQ | V2A9581-BS | WQ | LCS | LAB | | JD52507 | 09/29/2022 10:19:00 | | | | | | | |
| WSP | V2A9581-MB-ACTD-JD52507AQ | V2A9581-MB | WQ | LB | LAB | | JD52507 | 09/29/2022 11:16:00 | | | | | | | |
| WSP | V2A9583-BS-ACTD-JD52507AQ | V2A9583-BS | WQ | LCS | LAB | | JD52507 | 09/30/2022 10:21:00 | | | | | | | |
| WSP | V2A9583-MB-ACTD-JD52507AQ | V2A9583-MB | WQ | LB | LAB | | JD52507 | 09/30/2022 11:18:00 | | | | | | | |
| WSP | V2V3773-BS-ACTD-JD52507AQ | V2V3773-BS | WQ | LCS | LAB | | JD52507 | 09/27/2022 21:47:00 | | | | | | | |
| WSP | V2V3773-MB-ACTD-JD52507AQ | V2V3773-MB | WQ | LB | LAB | | JD52507 | 09/27/2022 22:33:00 | | | | | | | |
| WSP | V2V3777-BS-ACTD-JD52507AQ | V2V3777-BS | WQ | LCS | LAB | | JD52507 | 09/29/2022 22:25:00 | | | | | | | |
| WSP | V2V3777-MB-ACTD-JD52507AQ | V2V3777-MB | WQ | LB | LAB | | JD52507 | 09/29/2022 23:11:00 | | | | | | | |
| WSP | V2V3782-BS-ACTD-JD52507AQ | V2V3782-BS | WQ | LCS | LAB | | JD52507 | 10/03/2022 12:18:00 | | | | | | | |
| WSP | V2V3782-MB-ACTD-JD52507AQ | V2V3782-MB | WQ | LB | LAB | | JD52507 | 10/03/2022 13:04:00 | | | | | | | |
| WSP | VL10519-BS-ACTD-JD52507AQ | VL10519-BS | WQ | LCS | LAB | | JD52507 | 10/04/2022 11:19:00 | | | | | | | |
| WSP | VL10519-MB-ACTD-JD52507AQ | VL10519-MB | WQ | LB | LAB | | JD52507 | 10/04/2022 12:29:00 | | | | | | | |

| sampler | sampling_company_code | sampling_reason | sampling_technique | task_code | collection_quarter | composite_yn | composite_desc | sample_class | custom_field_1 | custom_field_2 | custom_field_3 | comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | WSP USA En | | | | | N | | | | | | EB-091922 |
| | WSP USA En | | | | | N | | | | | | EB-092022 |
| | WSP USA En | | | | | N | | | | | | EB-092222 |
| | WSP USA En | | | | | N | | | | | | EB-092222 |
| | WSP USA En | | | | | N | | | | | | EXB-10 |
| | WSP USA En | | | | | N | | | | | | EXB-11 |
| | WSP USA En | | | | | N | | | | | | EXB-9 |
| | WSP USA En | | | | | N | | | | | | MW-092022 |
| | WSP USA En | | | | | N | | | | | | MW-092222 |
| | WSP USA En | | | | | N | | | | | | MW-12C |
| | WSP USA En | | | | | N | | | | | | MW-13C |
| | WSP USA En | | | | | N | | | | | | MW-15C |
| | WSP USA En | | | | | N | | | | | | MW-16-100 |
| | WSP USA En | | | | | N | | | | | | MW-17-40 |
| | WSP USA En | | | | | N | | | | | | MW-18A |
| | WSP USA En | | | | | N | | | | | | MW-1B |
| | WSP USA En | | | | | N | | | | | | MW-20B |
| | WSP USA En | | | | | N | | | | | | MW-22B |
| | WSP USA En | | | | | N | | | | | | MW-25A |
| | WSP USA En | | | | | N | | | | | | MW-26A |
| | WSP USA En | | | | | N | | | | | | MW-2B |
| | WSP USA En | | | | | N | | | | | | MW-32B |
| | WSP USA En | | | | | N | | | | | | MW-36B |
| | WSP USA En | | | | | N | | | | | | MW-3B |
| | WSP USA En | | | | | N | | | | | | MW-46-43C |
| | WSP USA En | | | | | N | | | | | | MW-46-72C |
| | WSP USA En | | | | | N | | | | | | MW-4B |
| | WSP USA En | | | | | N | | | | | | MW-5-100 |
| | WSP USA En | | | | | N | | | | | | MW-5-25 |
| | WSP USA En | | | | | N | | | | | | MW-5-40 |
| | WSP USA En | | | | | N | | | | | | MW-50-160D |
| | WSP USA En | | | | | N | | | | | | MW-5B |
| | WSP USA En | | | | | N | | | | | | MW-7-40 |
| | WSP USA En | | | | | N | | | | | | MW-7B |
| | WSP USA En | | | | | N | | | | | | MW-8-40 |
| | WSP USA En | | | | | N | | | | | | MW-8B |
| | WSP USA En | | | | | N | | | | | | TRIP BLANK |
| | WSP USA En | | | | | N | | | | | | MW-46-72C |
| | WSP USA En | | | | | N | | | | | | EXB-11 |
| | WSP USA En | | | | | N | | | | | | EXB-10 |
| | WSP USA En | | | | | N | | | | | | |
| | WSP USA En | | | | | N | | | | | | |
| | WSP USA En | | | | | N | | | | | |

| #sys_sample_code | lab_anl_meth | analysis_date | test_type | dilution_factor | lab_sample_id | cas_rn | chemical_name | result_value | result_error_ | result_typ | reportable_ | detect_flag | lab_qualifie |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 100-41-4 | Ethylbenzene | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 100-42-5 | Styrene | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 10061-01- | cis-1,3-Dichloropropene | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 10061-02- | trans-1,3-Dichloropropene | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 106-46-7 | 1,4-Dichlorobenzene | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 106-93-4 | 1,2-Dibromoethane | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 107-06-2 | 1,2-Dichloroethane | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 108-87-2 | Methylcyclohexane | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 108-88-3 | Toluene | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 108-90-7 | Chlorobenzene | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 110-82-7 | Cyclohexane | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 120-82-1 | 1,2,4-Trichlorobenzene | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 124-48-1 | Dibromochloromethane | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 127-18-4 | Tetrachloroethene | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 1330-20-7 | Xylene (total) | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 156-59-2 | cis-1,2-Dichloroethene | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 156-60-5 | trans-1,2-Dichloroethene | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 1634-04-4 | Methyl Tert Butyl Ether | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 17060-07- | 1,2-Dichloroethane-D4 | 48 | | SUR | Yes | Y | |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 1868-53-7 | Dibromofluoromethane | 50.3 | | SUR | Yes | Y | |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 2037-26-5 | Toluene-D8 | 51.2 | | SUR | Yes | Y | |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 460-00-4 | 4-Bromofluorobenzene | 45.9 | | SUR | Yes | Y | |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 541-73-1 | 1,3-Dichlorobenzene | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 56-23-5 | Carbon tetrachloride | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 591-78-6 | 2-Hexanone | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 67-64-1 | Acetone | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 67-66-3 | Chloroform | | | TRG | Yes | N | |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 71-43-2 | Benzene | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 71-55-6 | 1,1,1-Trichloroethane | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 74-83-9 | Bromomethane | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 74-87-3 | Chloromethane | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 75-00-3 | Chloroethane | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 75-01-4 | Vinyl chloride | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 75-09-2 | Methylene chloride | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 75-15-0 | Carbon disulfide | 0.49 | | TRG | Yes | Y | J |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 75-25-2 | Bromoform | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 75-27-4 | Bromodichloromethane | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 75-34-3 | 1,1-Dichloroethane | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 75-35-4 | 1,1-Dichloroethene | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 75-69-4 | Trichlorofluoromethane | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 75-71-8 | Dichlorodifluoromethane | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 76-13-1 | Freon 113 | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 78-87-5 | 1,2-Dichloropropane | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 78-93-3 | 2-Butanone (MEK) | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 79-00-5 | 1,1,2-Trichloroethane | | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 79-01-6 | Trichloroethene | | | TRG | Yes | N | U |

| validator_qua | interpreted | validated | method_dete | reporting_d | quantitatio | result_unit | detectic | tic_retention_time | minimum_detectable_conc | counting_error | uncertainty | critical_value | validation_level | result_comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | | | | | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | | | | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | | | | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | | | | | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.50 | 2 | 1 | ug/l | ug/l | | | | | | DUSR | |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND, Associated CCV |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | | | | | | DUSR | ND |
| J | J | Y | 0.46 | 2 | 2 | ug/l | ug/l | | | | | | DUSR | |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| UJ | UJ | Y | 0.40 | 2 | 2 | ug/l | ug/l | | | | | | DUSR | ND, Associated CCV |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | | | | | DUSR | ND |

| qc_original_conc | qc_spike_added | qc_spike_measured | qc_spike_recovery | qc_dup_original_conc | qc_dup_spike_added | qc_dup_spike_measured | qc_dup_spike_recovery | qc_rpd | qc_spike_lcl | qc_spike_ucl | qc_rpd_cl |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 50 | 48 | 96 | | | | | | 80 | 120 | |
| 0 | 49.8 | 50.3 | 101 | | | | | | 80 | 120 | |
| 0 | 50.2 | 51.2 | 102 | | | | | | 80 | 120 | |
| 0 | 49.9 | 45.9 | 92 | | | | | | 82 | 114 | |

/ outside of control limits high, sample was ND.

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

| qc_spike_status | qc_dup_spike_status | qc_rpd_status | lab_sdg |
|---|---|---|---|
| | | | JD52507 |
| | | | JD52507 |
| | | | JD52507 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:3( | INITIAL | 1 | JD52507-2 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 17060-07- | 1,2-Dichloroethane-D4 | 48.4 | SUR | Yes | Y | |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 1868-53-7 | Dibromofluoromethane | 50.6 | SUR | Yes | Y | |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 2037-26-5 | Toluene-D8 | 50.7 | SUR | Yes | Y | |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 460-00-4 | 4-Bromofluorobenzene | 46.7 | SUR | Yes | Y | |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 67-66-3 | Chloroform | | TRG | Yes | N | |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0( | INITIAL | 1 | JD52507-14 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 2 | 1 | ug/l | ug/l | DUSR | |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0€ | INITIAL | 1 | JD52507-14 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0€ | INITIAL | 1 | JD52507-14 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0€ | INITIAL | 1 | JD52507-14 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0€ | INITIAL | 1 | JD52507-14 | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0€ | INITIAL | 1 | JD52507-14 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0€ | INITIAL | 1 | JD52507-14 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0€ | INITIAL | 1 | JD52507-14 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0€ | INITIAL | 1 | JD52507-14 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:0€ | INITIAL | 1 | JD52507-14 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 17060-07- | 1,2-Dichloroethane-D4 | 48.2 | SUR | Yes | Y | |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 1868-53-7 | Dibromofluoromethane | 49.9 | SUR | Yes | Y | |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 2037-26-5 | Toluene-D8 | 50.9 | SUR | Yes | Y | |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 460-00-4 | 4-Bromofluorobenzene | 46.4 | SUR | Yes | Y | |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 1.6 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 0.76 | 1 | 1 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | | DUSR | ND |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 50.2 | 48.2 | 96 | | 80 | 120 |
| 0 | 49.9 | 49.9 | 100 | | 80 | 120 |
| 0 | 49.9 | 50.9 | 102 | | 80 | 120 |
| 0 | 49.9 | 46.4 | 93 | | 82 | 114 |

/ outside of control limits low.  A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

JD52507
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JD52507

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31 | INITIAL | 1 | JD52507-23 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 17060-07- | 1,2-Dichloroethane-D4 | 46.4 | SUR | Yes | Y | |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 1868-53-7 | Dibromofluoromethane | 49.6 | SUR | Yes | Y | |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 2037-26-5 | Toluene-D8 | 50.8 | SUR | Yes | Y | |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 460-00-4 | 4-Bromofluorobenzene | 46.4 | SUR | Yes | Y | |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

| | | | | | |
|---|---|---|---|---|---|
| 0 | 49.8 | 46.4 | 93 | 80 | 120 |
| 0 | 50.1 | 49.6 | 99 | 80 | 120 |
| 0 | 49.8 | 50.8 | 102 | 80 | 120 |
| 0 | 49.9 | 46.4 | 93 | 82 | 114 |

/ outside of control limits low.  A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

JD52507
JD52507
JD52507

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| EB-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54 | reanalysis | 1 | JD52507-33 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 108-87-2 | Methylcyclohexane | 0.96 | TRG | Yes | Y | J |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 110-82-7 | Cyclohexane | 1.2 | TRG | Yes | Y | J |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 156-59-2 | cis-1,2-Dichloroethene | 2.8 | TRG | Yes | Y | |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 17060-07- | 1,2-Dichloroethane-D4 | 45.6 | SUR | Yes | Y | |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 1868-53-7 | Dibromofluoromethane | 49.2 | SUR | Yes | Y | |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 2037-26-5 | Toluene-D8 | 51.4 | SUR | Yes | Y | |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 460-00-4 | 4-Bromofluorobenzene | 47.1 | SUR | Yes | Y | |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 71-43-2 | Benzene | 0.67 | TRG | Yes | Y | |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| J | J | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| J | J | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

| | | | | | |
|---|---|---|---|---|---|
| 0 | 50.1 | 45.6 | 91 | 80 | 120 |
| 0 | 50.2 | 49.2 | 98 | 80 | 120 |
| 0 | 49.9 | 51.4 | 103 | 80 | 120 |
| 0 | 50.1 | 47.1 | 94 | 82 | 114 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57 | INITIAL | 1 | JD52507-6 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:25 | DILUTION1 | 50 | JD52507-37 | 156-59-2 | cis-1,2-Dichloroethene | 1830 | TRG | Yes | Y | |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:25 | DILUTION1 | 50 | JD52507-37 | 17060-07- | 1,2-Dichloroethane-D4 | 2280 | SUR | No | Y | |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:25 | DILUTION1 | 50 | JD52507-37 | 1868-53-7 | Dibromofluoromethane | 2320 | SUR | No | Y | |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:25 | DILUTION1 | 50 | JD52507-37 | 2037-26-5 | Toluene-D8 | 2460 | SUR | No | Y | |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:25 | DILUTION1 | 50 | JD52507-37 | 460-00-4 | 4-Bromofluorobenzene | 2260 | SUR | No | Y | |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 156-60-5 | trans-1,2-Dichloroethene | 33.6 | TRG | Yes | Y | |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 17060-07- | 1,2-Dichloroethane-D4 | 230 | SUR | Yes | Y | |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 1868-53-7 | Dibromofluoromethane | 237 | SUR | Yes | Y | |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 2037-26-5 | Toluene-D8 | 243 | SUR | Yes | Y | |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 460-00-4 | 4-Bromofluorobenzene | 227 | SUR | Yes | Y | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| J | J | Y | 25 | 50 | 50 | ug/l | ug/l | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| U | U | Y | 3.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.4 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.4 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.2 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.5 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.4 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 9.3 | 25 | 25 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.0 | 25 | 25 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.5 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.8 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.9 | 25 | 25 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.5 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.8 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.8 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| | | Y | 2.7 | 5 | 5 | ug/l | ug/l | DUSR | |
| U | U | Y | 2.5 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |

/ outside of control limits high, sample was ND.

/ outside of control limits high, sample was ND.

| | | | | | |
|---|---|---|---|---|---|
| 0 | 2510 | 2280 | 91 | 80 | 120 |
| 0 | 2500 | 2320 | 93 | 80 | 120 |
| 0 | 2510 | 2460 | 98 | 80 | 120 |
| 0 | 2490 | 2260 | 91 | 82 | 114 |

| | | | | | |
|---|---|---|---|---|---|
| 0 | 250 | 230 | 92 | 80 | 120 |
| 0 | 250 | 237 | 95 | 80 | 120 |
| 0 | 251 | 243 | 97 | 80 | 120 |
| 0 | 249 | 227 | 91 | 82 | 114 |

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| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 541-73-1 | 1,3-Dichlorobenzene | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 56-23-5 | Carbon tetrachloride | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 591-78-6 | 2-Hexanone | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 67-64-1 | Acetone | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 67-66-3 | Chloroform | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 71-43-2 | Benzene | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 71-55-6 | 1,1,1-Trichloroethane | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 74-83-9 | Bromomethane | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 74-87-3 | Chloromethane | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 75-00-3 | Chloroethane | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 75-01-4 | Vinyl chloride | 13.8 | | TRG | Yes | Y | |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 75-09-2 | Methylene chloride | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 75-15-0 | Carbon disulfide | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 75-25-2 | Bromoform | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 75-27-4 | Bromodichloromethane | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 75-34-3 | 1,1-Dichloroethane | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 75-35-4 | 1,1-Dichloroethene | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 75-69-4 | Trichlorofluoromethane | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 75-71-8 | Dichlorodifluoromethane | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 76-13-1 | Freon 113 | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 78-87-5 | 1,2-Dichloropropane | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 78-93-3 | 2-Butanone (MEK) | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 79-00-5 | 1,1,2-Trichloroethane | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 79-01-6 | Trichloroethene | 400 | | TRG | Yes | Y | |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 79-20-9 | Methyl Acetate | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 95-50-1 | 1,2-Dichlorobenzene | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | | TRG | Yes | N | U |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48 | INITIAL | 5 | JD52507-37 | 98-82-8 | Isopropylbenzene | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 100-41-4 | Ethylbenzene | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 100-42-5 | Styrene | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 10061-01- | cis-1,3-Dichloropropene | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 10061-02- | trans-1,3-Dichloropropene | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 106-46-7 | 1,4-Dichlorobenzene | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 106-93-4 | 1,2-Dibromoethane | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 107-06-2 | 1,2-Dichloroethane | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 108-87-2 | Methylcyclohexane | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 108-88-3 | Toluene | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 108-90-7 | Chlorobenzene | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 110-82-7 | Cyclohexane | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 120-82-1 | 1,2,4-Trichlorobenzene | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 124-48-1 | Dibromochloromethane | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 127-18-4 | Tetrachloroethene | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 1330-20-7 | Xylene (total) | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 156-59-2 | cis-1,2-Dichloroethene | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 156-60-5 | trans-1,2-Dichloroethene | | | TRG | Yes | N | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 1634-04-4 | Methyl Tert Butyl Ether | | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 2.7 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.8 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 10 | 25 | 25 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 15 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.5 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.1 | 2.5 | 2.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 8.2 | 10 | 10 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 3.8 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.6 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| | | Y | 2.6 | 5 | 5 | ug/l | ug/l | DUSR | |
| U | U | Y | 5.0 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.3 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.2 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.3 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.8 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.8 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 2.9 | 25 | 25 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 2.5 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 14 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| | | Y | 2.6 | 5 | 5 | ug/l | ug/l | DUSR | |
| U | U | Y | 4.0 | 25 | 25 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.3 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.6 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.2 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |

/ outside of control limits low.  A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

/ outside of control limits high, sample was ND.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 17060-07- | 1,2-Dichloroethane-D4 | 47.4 | SUR | Yes | Y | | |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 1868-53-7 | Dibromofluoromethane | 50.1 | SUR | Yes | Y | | |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 2037-26-5 | Toluene-D8 | 50.8 | SUR | Yes | Y | | |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 460-00-4 | 4-Bromofluorobenzene | 48.1 | SUR | Yes | Y | | |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 67-64-1 | Acetone | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 67-66-3 | Chloroform | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 71-43-2 | Benzene | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 74-83-9 | Bromomethane | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 74-87-3 | Chloromethane | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 75-00-3 | Chloroethane | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 75-09-2 | Methylene chloride | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 75-25-2 | Bromoform | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 76-13-1 | Freon 113 | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 79-01-6 | Trichloroethene | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | | U |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16 | INITIAL | 1 | JD52507-1 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | | U |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:58 | INITIAL | 100 | JD52507-10MS | 100-41-4 | Ethylbenzene | 4930 | SC | Yes | Y | | |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:58 | INITIAL | 100 | JD52507-10MS | 100-42-5 | Styrene | 4930 | SC | Yes | Y | | |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:58 | INITIAL | 100 | JD52507-10MS | 10061-01- | cis-1,3-Dichloropropene | 5090 | SC | Yes | Y | | |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:58 | INITIAL | 100 | JD52507-10MS | 10061-02- | trans-1,3-Dichloropropene | 4990 | SC | Yes | Y | | |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:58 | INITIAL | 100 | JD52507-10MS | 106-46-7 | 1,4-Dichlorobenzene | 4540 | SC | Yes | Y | | |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:58 | INITIAL | 100 | JD52507-10MS | 106-93-4 | 1,2-Dibromoethane | 5010 | SC | Yes | Y | | |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:58 | INITIAL | 100 | JD52507-10MS | 107-06-2 | 1,2-Dichloroethane | 4800 | SC | Yes | Y | | |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:58 | INITIAL | 100 | JD52507-10MS | 108-10-1 | 4-Methyl-2-pentanone(MIE | 23600 | SC | Yes | Y | | |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:58 | INITIAL | 100 | JD52507-10MS | 108-87-2 | Methylcyclohexane | 4780 | SC | Yes | Y | | |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:58 | INITIAL | 100 | JD52507-10MS | 108-88-3 | Toluene | 4650 | SC | Yes | Y | | |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:58 | INITIAL | 100 | JD52507-10MS | 108-90-7 | Chlorobenzene | 4700 | SC | Yes | Y | | |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:58 | INITIAL | 100 | JD52507-10MS | 110-82-7 | Cyclohexane | 4190 | SC | Yes | Y | | |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:58 | INITIAL | 100 | JD52507-10MS | 120-82-1 | 1,2,4-Trichlorobenzene | 5000 | SC | Yes | Y | | |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:58 | INITIAL | 100 | JD52507-10MS | 124-48-1 | Dibromochloromethane | 4860 | SC | Yes | Y | | |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:58 | INITIAL | 100 | JD52507-10MS | 127-18-4 | Tetrachloroethene | 4610 | SC | Yes | Y | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 60 | 100 | 100 | ug/l | ug/l | DUSR | 5000 ug/l added |
| | | Y | 49 | 100 | 100 | ug/l | ug/l | DUSR | 5000 ug/l added |
| | | Y | 47 | 100 | 100 | ug/l | ug/l | DUSR | 5000 ug/l added |
| | | Y | 43 | 100 | 100 | ug/l | ug/l | DUSR | 5000 ug/l added |
| | | Y | 51 | 100 | 100 | ug/l | ug/l | DUSR | 5000 ug/l added |
| | | Y | 48 | 100 | 100 | ug/l | ug/l | DUSR | 5000 ug/l added |
| | | Y | 60 | 100 | 100 | ug/l | ug/l | DUSR | 5000 ug/l added |
| | | Y | 190 | 500 | 500 | ug/l | ug/l | DUSR | 20000 ug/l added |
| | | Y | 60 | 500 | 500 | ug/l | ug/l | DUSR | 5000 ug/l added |
| | | Y | 49 | 100 | 100 | ug/l | ug/l | DUSR | 5000 ug/l added |
| | | Y | 56 | 100 | 100 | ug/l | ug/l | DUSR | 5000 ug/l added |
| | | Y | 78 | 500 | 500 | ug/l | ug/l | DUSR | 5000 ug/l added |
| | | Y | 50 | 100 | 100 | ug/l | ug/l | DUSR | 5000 ug/l added |
| | | Y | 56 | 100 | 100 | ug/l | ug/l | DUSR | 5000 ug/l added |
| | | Y | 56 | 100 | 100 | ug/l | ug/l | DUSR | 5000 ug/l added |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 49.9 | 47.4 | 95 | | | | | | 80 | 120 | |
| 0 | 50.1 | 50.1 | 100 | | | | | | 80 | 120 | |
| 0 | 49.8 | 50.8 | 102 | | | | | | 80 | 120 | |
| 0 | 50.1 | 48.1 | 96 | | | | | | 82 | 114 | |

/ outside of control limits high, sample was ND.

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 5000 | 5000 | 100 | 0 | 5000 | 4930 | 99 | 1 | 37 | 144 | 12 |
| 0 | 5000 | 5010 | 100 | 0 | 5000 | 4930 | 99 | 2 | 71 | 133 | 12 |
| 0 | 5000 | 5120 | 102 | 0 | 5000 | 5090 | 102 | 1 | 75 | 125 | 13 |
| 0 | 5000 | 5030 | 101 | 0 | 5000 | 4990 | 100 | 1 | 75 | 122 | 12 |
| 0 | 5000 | 4640 | 93 | 0 | 5000 | 4540 | 91 | 2 | 72 | 117 | 12 |
| 0 | 5000 | 5070 | 101 | 0 | 5000 | 5010 | 100 | 1 | 63 | 134 | 12 |
| 0 | 5000 | 4850 | 97 | 0 | 5000 | 4800 | 96 | 1 | 66 | 120 | 13 |
| 0 | 20000 | 24000 | 120 | 0 | 20000 | 23600 | 118 | 2 | 65 | 135 | 14 |
| 0 | 5000 | 4910 | 98 | 0 | 5000 | 4780 | 96 | 3 | 59 | 137 | 16 |
| 0 | 5000 | 4730 | 95 | 0 | 5000 | 4650 | 93 | 2 | 46 | 139 | 12 |
| 0 | 5000 | 4780 | 96 | 0 | 5000 | 4700 | 94 | 2 | 68 | 123 | 12 |
| 0 | 5000 | 4170 | 83 | 0 | 5000 | 4190 | 84 | 0 | 53 | 146 | 14 |
| 0 | 5000 | 5030 | 101 | 0 | 5000 | 5000 | 100 | 1 | 61 | 137 | 16 |
| 0 | 5000 | 4940 | 99 | 0 | 5000 | 4860 | 97 | 2 | 75 | 122 | 12 |
| 0 | 5000 | 4850 | 97 | 0 | 5000 | 4610 | 92 | 5 | 58 | 132 | 13 |

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| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 1330-20-7 | Xylene (total) | 14500 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 156-59-2 | cis-1,2-Dichloroethene | 15300 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 156-60-5 | trans-1,2-Dichloroethene | 4970 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 1634-04-4 | Methyl Tert Butyl Ether | 5290 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 541-73-1 | 1,3-Dichlorobenzene | 4620 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 56-23-5 | Carbon tetrachloride | 4850 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 591-78-6 | 2-Hexanone | 23200 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 67-64-1 | Acetone | 22600 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 67-66-3 | Chloroform | 4640 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 71-43-2 | Benzene | 4910 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 71-55-6 | 1,1,1-Trichloroethane | 4790 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 74-83-9 | Bromomethane | 6700 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 74-87-3 | Chloromethane | 4000 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 75-00-3 | Chloroethane | 6200 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 75-01-4 | Vinyl chloride | 7380 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 75-09-2 | Methylene chloride | 4720 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 75-15-0 | Carbon disulfide | 4290 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 75-25-2 | Bromoform | 5010 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 75-27-4 | Bromodichloromethane | 4880 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 75-34-3 | 1,1-Dichloroethane | 5160 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 75-35-4 | 1,1-Dichloroethene | 4900 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 75-69-4 | Trichlorofluoromethane | 7690 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 75-71-8 | Dichlorodifluoromethane | 4210 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 76-13-1 | Freon 113 | 4670 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 78-87-5 | 1,2-Dichloropropane | 5270 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 78-93-3 | 2-Butanone (MEK) | 24500 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 79-00-5 | 1,1,2-Trichloroethane | 5150 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 79-01-6 | Trichloroethene | 5290 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 79-20-9 | Methyl Acetate | 5410 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 79-34-5 | 1,1,2,2-Tetrachloroethane | 5050 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 95-50-1 | 1,2-Dichlorobenzene | 4680 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 96-12-8 | 1,2-Dibromo-3-chloroprop | 5360 | SC | Yes | Y |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:5€ | INITIAL | 100 | JD52507-10MS | 98-82-8 | Isopropylbenzene | 4770 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4C | INITIAL | 5 | JD52507-37MS | 100-41-4 | Ethylbenzene | 254 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4C | INITIAL | 5 | JD52507-37MS | 100-42-5 | Styrene | 250 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4C | INITIAL | 5 | JD52507-37MS | 10061-01- | cis-1,3-Dichloropropene | 254 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4C | INITIAL | 5 | JD52507-37MS | 10061-02- | trans-1,3-Dichloropropene | 211 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4C | INITIAL | 5 | JD52507-37MS | 106-46-7 | 1,4-Dichlorobenzene | 247 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4C | INITIAL | 5 | JD52507-37MS | 106-93-4 | 1,2-Dibromoethane | 239 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4C | INITIAL | 5 | JD52507-37MS | 107-06-2 | 1,2-Dichloroethane | 234 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4C | INITIAL | 5 | JD52507-37MS | 108-10-1 | 4-Methyl-2-pentanone(MIE | 1100 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4C | INITIAL | 5 | JD52507-37MS | 108-87-2 | Methylcyclohexane | 260 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4C | INITIAL | 5 | JD52507-37MS | 108-88-3 | Toluene | 252 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4C | INITIAL | 5 | JD52507-37MS | 108-90-7 | Chlorobenzene | 263 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4C | INITIAL | 5 | JD52507-37MS | 110-82-7 | Cyclohexane | 218 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4C | INITIAL | 5 | JD52507-37MS | 120-82-1 | 1,2,4-Trichlorobenzene | 287 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4C | INITIAL | 5 | JD52507-37MS | 124-48-1 | Dibromochloromethane | 227 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4C | INITIAL | 5 | JD52507-37MS | 127-18-4 | Tetrachloroethene | 264 | SC | Yes | Y |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Y | 59 | 100 | 100 ug/l | ug/l | | DUSR | 15000 ug/l added |
| Y | 51 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 54 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 51 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 54 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 55 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 200 | 500 | 500 ug/l | ug/l | | DUSR | 20000 ug/l added |
| Y | 310 | 1000 | 1000 ug/l | ug/l | | DUSR | 20000 ug/l added |
| Y | 50 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 43 | 50 | 50 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 54 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 160 | 200 | 200 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 76 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 73 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 52 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 100 | 200 | 200 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 46 | 200 | 200 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 63 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 45 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 57 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 59 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 40 | 200 | 200 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 56 | 200 | 200 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 58 | 500 | 500 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 51 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 270 | 1000 | 1000 ug/l | ug/l | | DUSR | 20000 ug/l added |
| Y | 53 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 53 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 80 | 500 | 500 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 65 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 53 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 53 | 200 | 200 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 65 | 100 | 100 ug/l | ug/l | | DUSR | 5000 ug/l added |
| Y | 3.0 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.4 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.4 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.2 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.5 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.4 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 3.0 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 9.3 | 25 | 25 ug/l | ug/l | | DUSR | 1000 ug/l added |
| Y | 3.0 | 25 | 25 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.5 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.8 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 3.9 | 25 | 25 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.5 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.8 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.8 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15000 | 14800 | 99 | 0 | 15000 | 14500 | 97 | 2 | 38 | 147 | 12 |
| 9010 | 5000 | 15400 | 128 | 9010 | 5000 | 15300 | 126 | 1 | 52 | 140 | 12 |
| 0 | 5000 | 5020 | 100 | 0 | 5000 | 4970 | 99 | 1 | 70 | 125 | 13 |
| 0 | 5000 | 5230 | 105 | 0 | 5000 | 5290 | 106 | 1 | 66 | 124 | 12 |
| 0 | 5000 | 4710 | 94 | 0 | 5000 | 4620 | 92 | 2 | 75 | 117 | 12 |
| 0 | 5000 | 4930 | 99 | 0 | 5000 | 4850 | 97 | 2 | 70 | 132 | 13 |
| 0 | 20000 | 23300 | 117 | 0 | 20000 | 23200 | 116 | 0 | 56 | 132 | 16 |
| 0 | 20000 | 23100 | 116 | 0 | 20000 | 22600 | 113 | 2 | 22 | 134 | 19 |
| 0 | 5000 | 4640 | 93 | 0 | 5000 | 4640 | 93 | 0 | 68 | 120 | 13 |
| 0 | 5000 | 4910 | 98 | 0 | 5000 | 4910 | 98 | 0 | 49 | 137 | 12 |
| 0 | 5000 | 4790 | 96 | 0 | 5000 | 4790 | 96 | 0 | 67 | 132 | 13 |
| 0 | 5000 | 6610 | 132 | 0 | 5000 | 6700 | 134 | 1 | 27 | 164 | 38 |
| 0 | 5000 | 4080 | 82 | 0 | 5000 | 4000 | 80 | 2 | 35 | 156 | 18 |
| 0 | 5000 | 9080 | 182 | 0 | 5000 | 6200 | 124 | 38 | 48 | 152 | 17 |
| 2920 | 5000 | 7530 | 92 | 2920 | 5000 | 7380 | 89 | 2 | 41 | 156 | 16 |
| 0 | 5000 | 4720 | 94 | 0 | 5000 | 4720 | 94 | 0 | 66 | 125 | 14 |
| 0 | 5000 | 4340 | 87 | 0 | 5000 | 4290 | 86 | 1 | 54 | 136 | 16 |
| 0 | 5000 | 5050 | 101 | 0 | 5000 | 5010 | 100 | 1 | 70 | 133 | 13 |
| 0 | 5000 | 4930 | 99 | 0 | 5000 | 4880 | 98 | 1 | 76 | 121 | 12 |
| 0 | 5000 | 5180 | 104 | 0 | 5000 | 5160 | 103 | 0 | 68 | 129 | 13 |
| 0 | 5000 | 5050 | 101 | 0 | 5000 | 4900 | 98 | 3 | 59 | 133 | 15 |
| 0 | 5000 | 8030 | 161 | 0 | 5000 | 7690 | 154 | 4 | 61 | 145 | 16 |
| 0 | 5000 | 4270 | 85 | 0 | 5000 | 4210 | 84 | 1 | 34 | 163 | 16 |
| 0 | 5000 | 4850 | 97 | 0 | 5000 | 4670 | 93 | 4 | 61 | 142 | 14 |
| 0 | 5000 | 5330 | 107 | 0 | 5000 | 5270 | 105 | 1 | 73 | 124 | 12 |
| 0 | 20000 | 24700 | 124 | 0 | 20000 | 24500 | 123 | 1 | 52 | 137 | 17 |
| 0 | 5000 | 5190 | 104 | 0 | 5000 | 5150 | 103 | 1 | 75 | 120 | 12 |
| 517 | 5000 | 5320 | 96 | 517 | 5000 | 5290 | 95 | 1 | 56 | 136 | 12 |
| 0 | 5000 | 5350 | 107 | 0 | 5000 | 5410 | 108 | 1 | 51 | 139 | 18 |
| 0 | 5000 | 5140 | 103 | 0 | 5000 | 5050 | 101 | 2 | 68 | 127 | 14 |
| 0 | 5000 | 4830 | 97 | 0 | 5000 | 4680 | 94 | 3 | 74 | 119 | 12 |
| 0 | 5000 | 5360 | 107 | 0 | 5000 | 5360 | 107 | 0 | 63 | 134 | 16 |
| 0 | 5000 | 4920 | 98 | 0 | 5000 | 4770 | 95 | 3 | 71 | 126 | 13 |
| 0 | 250 | 250 | 100 | 0 | 250 | 254 | 102 | 2 | 37 | 144 | 12 |
| 0 | 250 | 246 | 98 | 0 | 250 | 250 | 100 | 2 | 71 | 133 | 12 |
| 0 | 250 | 252 | 101 | 0 | 250 | 254 | 102 | 1 | 75 | 125 | 13 |
| 0 | 250 | 203 | 81 | 0 | 250 | 211 | 84 | 4 | 75 | 122 | 12 |
| 0 | 250 | 244 | 98 | 0 | 250 | 247 | 99 | 1 | 72 | 117 | 12 |
| 0 | 250 | 235 | 94 | 0 | 250 | 239 | 96 | 2 | 63 | 134 | 12 |
| 0 | 250 | 237 | 95 | 0 | 250 | 234 | 94 | 1 | 66 | 120 | 13 |
| 0 | 1000 | 1060 | 106 | 0 | 1000 | 1100 | 110 | 4 | 65 | 135 | 14 |
| 0 | 250 | 257 | 103 | 0 | 250 | 260 | 104 | 1 | 59 | 137 | 16 |
| 0 | 250 | 248 | 99 | 0 | 250 | 252 | 101 | 2 | 46 | 139 | 12 |
| 0 | 250 | 258 | 103 | 0 | 250 | 263 | 105 | 2 | 68 | 123 | 12 |
| 0 | 250 | 220 | 88 | 0 | 250 | 218 | 87 | 1 | 53 | 146 | 14 |
| 0 | 250 | 274 | 110 | 0 | 250 | 287 | 115 | 5 | 61 | 137 | 16 |
| 0 | 250 | 221 | 88 | 0 | 250 | 227 | 91 | 3 | 75 | 122 | 12 |
| 0 | 250 | 263 | 105 | 0 | 250 | 264 | 106 | 0 | 58 | 132 | 13 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 1330-20-7 | Xylene (total) | 734 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 156-59-2 | cis-1,2-Dichloroethene | 1400 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 156-60-5 | trans-1,2-Dichloroethene | 291 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 1634-04-4 | Methyl Tert Butyl Ether | 261 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 541-73-1 | 1,3-Dichlorobenzene | 260 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 56-23-5 | Carbon tetrachloride | 243 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 591-78-6 | 2-Hexanone | 962 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 67-64-1 | Acetone | 989 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 67-66-3 | Chloroform | 247 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 71-43-2 | Benzene | 264 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 71-55-6 | 1,1,1-Trichloroethane | 255 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 74-83-9 | Bromomethane | 190 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 74-87-3 | Chloromethane | 225 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 75-00-3 | Chloroethane | 201 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 75-01-4 | Vinyl chloride | 223 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 75-09-2 | Methylene chloride | 269 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 75-15-0 | Carbon disulfide | 215 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 75-25-2 | Bromoform | 219 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 75-27-4 | Bromodichloromethane | 244 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 75-34-3 | 1,1-Dichloroethane | 269 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 75-35-4 | 1,1-Dichloroethene | 256 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 75-69-4 | Trichlorofluoromethane | 255 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 75-71-8 | Dichlorodifluoromethane | 256 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 76-13-1 | Freon 113 | 277 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 78-87-5 | 1,2-Dichloropropane | 284 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 78-93-3 | 2-Butanone (MEK) | 979 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 79-00-5 | 1,1,2-Trichloroethane | 258 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 79-01-6 | Trichloroethene | 552 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 79-20-9 | Methyl Acetate | 267 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 79-34-5 | 1,1,2,2-Tetrachloroethane | 233 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 95-50-1 | 1,2-Dichlorobenzene | 242 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 96-12-8 | 1,2-Dibromo-3-chloroprop | 236 | SC | Yes | Y |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:4( | INITIAL | 5 | JD52507-37MS | 98-82-8 | Isopropylbenzene | 254 | SC | Yes | Y |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 100-41-4 | Ethylbenzene | 45 | SC | Yes | Y |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 100-42-5 | Styrene | 44 | SC | Yes | Y |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 10061-01- | cis-1,3-Dichloropropene | 44.6 | SC | Yes | Y |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 10061-02- | trans-1,3-Dichloropropene | 43.9 | SC | Yes | Y |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 106-46-7 | 1,4-Dichlorobenzene | 41.8 | SC | Yes | Y |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 106-93-4 | 1,2-Dibromoethane | 43.2 | SC | Yes | Y |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 107-06-2 | 1,2-Dichloroethane | 41.2 | SC | Yes | Y |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 108-10-1 | 4-Methyl-2-pentanone(MIE | 205 | SC | Yes | Y |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 108-87-2 | Methylcyclohexane | 45.3 | SC | Yes | Y |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 108-88-3 | Toluene | 43.1 | SC | Yes | Y |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 108-90-7 | Chlorobenzene | 42.4 | SC | Yes | Y |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 110-82-7 | Cyclohexane | 51.3 | SC | Yes | Y |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 120-82-1 | 1,2,4-Trichlorobenzene | 44.3 | SC | Yes | Y |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 124-48-1 | Dibromochloromethane | 42.7 | SC | Yes | Y |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 127-18-4 | Tetrachloroethene | 44.3 | SC | Yes | Y |

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|---|---|---|---|---|---|---|---|
| Y | 3.0 | 5 | 5 ug/l | ug/l | | DUSR | 750 ug/l added |
| Y | 2.5 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.7 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.5 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.7 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.8 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 10 | 25 | 25 ug/l | ug/l | | DUSR | 1000 ug/l added |
| Y | 15 | 50 | 50 ug/l | ug/l | | DUSR | 1000 ug/l added |
| Y | 2.5 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.1 | 2.5 | 2.5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.7 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 8.2 | 10 | 10 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 3.8 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 3.6 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.6 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 5.0 | 10 | 10 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.3 | 10 | 10 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 3.2 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.3 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.8 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 3.0 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.0 | 10 | 10 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.8 | 10 | 10 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.9 | 25 | 25 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.5 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 14 | 50 | 50 ug/l | ug/l | | DUSR | 1000 ug/l added |
| Y | 2.7 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.6 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 4.0 | 25 | 25 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 3.3 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.7 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 2.6 | 10 | 10 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 3.2 | 5 | 5 ug/l | ug/l | | DUSR | 250 ug/l added |
| Y | 0.60 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| Y | 0.49 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| Y | 0.47 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| Y | 0.43 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| Y | 0.51 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| Y | 0.48 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| Y | 0.60 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| Y | 1.9 | 5 | 5 ug/l | ug/l | | DUSR | 200 ug/l added |
| Y | 0.60 | 5 | 5 ug/l | ug/l | | DUSR | 50 ug/l added |
| Y | 0.49 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| Y | 0.56 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| Y | 0.78 | 5 | 5 ug/l | ug/l | | DUSR | 50 ug/l added |
| Y | 0.50 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| Y | 0.56 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| Y | 0.56 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 750 | 720 | 96 | 0 | 750 | 734 | 98 | 2 | 38 | 147 | 12 |
| 1830 | 250 | 1400 | -44 | 1830 | 250 | 1400 | -44 | 0 | 52 | 140 | 12 |
| 33.6 | 250 | 295 | 105 | 33.6 | 250 | 291 | 103 | 1 | 70 | 125 | 13 |
| 0 | 250 | 255 | 102 | 0 | 250 | 261 | 104 | 2 | 66 | 124 | 12 |
| 0 | 250 | 255 | 102 | 0 | 250 | 260 | 104 | 2 | 75 | 117 | 12 |
| 0 | 250 | 240 | 96 | 0 | 250 | 243 | 97 | 1 | 70 | 132 | 13 |
| 0 | 1000 | 917 | 92 | 0 | 1000 | 962 | 96 | 5 | 56 | 132 | 16 |
| 0 | 1000 | 991 | 99 | 0 | 1000 | 989 | 99 | 0 | 22 | 134 | 19 |
| 0 | 250 | 244 | 98 | 0 | 250 | 247 | 99 | 1 | 68 | 120 | 13 |
| 0 | 250 | 263 | 105 | 0 | 250 | 264 | 106 | 0 | 49 | 137 | 12 |
| 0 | 250 | 256 | 102 | 0 | 250 | 255 | 102 | 0 | 67 | 132 | 13 |
| 0 | 250 | 154 | 62 | 0 | 250 | 190 | 76 | 21 | 27 | 164 | 38 |
| 0 | 250 | 224 | 90 | 0 | 250 | 225 | 90 | 0 | 35 | 156 | 18 |
| 0 | 250 | 204 | 82 | 0 | 250 | 201 | 80 | 1 | 48 | 152 | 17 |
| 13.8 | 250 | 223 | 84 | 13.8 | 250 | 223 | 84 | 0 | 41 | 156 | 16 |
| 0 | 250 | 272 | 109 | 0 | 250 | 269 | 108 | 1 | 66 | 125 | 14 |
| 0 | 250 | 209 | 84 | 0 | 250 | 215 | 86 | 3 | 54 | 136 | 16 |
| 0 | 250 | 214 | 86 | 0 | 250 | 219 | 88 | 2 | 70 | 133 | 13 |
| 0 | 250 | 239 | 96 | 0 | 250 | 244 | 98 | 2 | 76 | 121 | 12 |
| 0 | 250 | 270 | 108 | 0 | 250 | 269 | 108 | 0 | 68 | 129 | 13 |
| 0 | 250 | 261 | 104 | 0 | 250 | 256 | 102 | 2 | 59 | 133 | 15 |
| 0 | 250 | 252 | 101 | 0 | 250 | 255 | 102 | 1 | 61 | 145 | 16 |
| 0 | 250 | 260 | 104 | 0 | 250 | 256 | 102 | 2 | 34 | 163 | 16 |
| 0 | 250 | 284 | 114 | 0 | 250 | 277 | 111 | 2 | 61 | 142 | 14 |
| 0 | 250 | 279 | 112 | 0 | 250 | 284 | 114 | 2 | 73 | 124 | 12 |
| 0 | 1000 | 964 | 96 | 0 | 1000 | 979 | 98 | 2 | 52 | 137 | 17 |
| 0 | 250 | 250 | 100 | 0 | 250 | 258 | 103 | 3 | 75 | 120 | 12 |
| 400 | 250 | 542 | 57 | 400 | 250 | 552 | 61 | 2 | 56 | 136 | 12 |
| 0 | 250 | 255 | 102 | 0 | 250 | 267 | 107 | 5 | 51 | 139 | 18 |
| 0 | 250 | 230 | 92 | 0 | 250 | 233 | 93 | 1 | 68 | 127 | 14 |
| 0 | 250 | 236 | 94 | 0 | 250 | 242 | 97 | 3 | 74 | 119 | 12 |
| 0 | 250 | 230 | 92 | 0 | 250 | 236 | 94 | 3 | 63 | 134 | 16 |
| 0 | 250 | 250 | 100 | 0 | 250 | 254 | 102 | 2 | 71 | 126 | 13 |
| 0 | 50 | 49.9 | 100 | 0 | 50 | 45 | 90 | 10 | 37 | 144 | 12 |
| 0 | 50 | 48.6 | 97 | 0 | 50 | 44 | 88 | 10 | 71 | 133 | 12 |
| 0 | 50 | 47.3 | 95 | 0 | 50 | 44.6 | 89 | 6 | 75 | 125 | 13 |
| 0 | 50 | 47.7 | 95 | 0 | 50 | 43.9 | 88 | 8 | 75 | 122 | 12 |
| 0 | 50 | 45.5 | 91 | 0 | 50 | 41.8 | 84 | 8 | 72 | 117 | 12 |
| 0 | 50 | 47.2 | 94 | 0 | 50 | 43.2 | 86 | 9 | 63 | 134 | 12 |
| 0 | 50 | 43.9 | 88 | 0 | 50 | 41.2 | 82 | 6 | 66 | 120 | 13 |
| 0 | 200 | 222 | 111 | 0 | 200 | 205 | 103 | 8 | 65 | 135 | 14 |
| 0.96 | 50 | 48 | 94 | 0.96 | 50 | 45.3 | 89 | 6 | 59 | 137 | 16 |
| 0 | 50 | 46.8 | 94 | 0 | 50 | 43.1 | 86 | 8 | 46 | 139 | 12 |
| 0 | 50 | 46.7 | 93 | 0 | 50 | 42.4 | 85 | 10 | 68 | 123 | 12 |
| 1.2 | 50 | 52.7 | 103 | 1.2 | 50 | 51.3 | 100 | 3 | 53 | 146 | 14 |
| 0 | 50 | 47.7 | 95 | 0 | 50 | 44.3 | 89 | 7 | 61 | 137 | 16 |
| 0 | 50 | 46.9 | 94 | 0 | 50 | 42.7 | 85 | 9 | 75 | 122 | 12 |
| 0 | 50 | 47.6 | 95 | 0 | 50 | 44.3 | 89 | 7 | 58 | 132 | 13 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 1330-20-7 | Xylene (total) | 132 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 156-59-2 | cis-1,2-Dichloroethene | 51 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 156-60-5 | trans-1,2-Dichloroethene | 46.2 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 1634-04-4 | Methyl Tert Butyl Ether | 45.5 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 541-73-1 | 1,3-Dichlorobenzene | 43 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 56-23-5 | Carbon tetrachloride | 45 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 591-78-6 | 2-Hexanone | 203 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 67-64-1 | Acetone | 198 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 67-66-3 | Chloroform | 41.8 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 71-43-2 | Benzene | 45 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 71-55-6 | 1,1,1-Trichloroethane | 44.5 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 74-83-9 | Bromomethane | 72.4 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 74-87-3 | Chloromethane | 51.8 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 75-00-3 | Chloroethane | 69.2 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 75-01-4 | Vinyl chloride | 61.6 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 75-09-2 | Methylene chloride | 42.1 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 75-15-0 | Carbon disulfide | 41.8 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 75-25-2 | Bromoform | 43.6 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 75-27-4 | Bromodichloromethane | 43.1 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 75-34-3 | 1,1-Dichloroethane | 47.2 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 75-35-4 | 1,1-Dichloroethene | 48.3 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 75-69-4 | Trichlorofluoromethane | 87.2 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 75-71-8 | Dichlorodifluoromethane | 50.7 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 76-13-1 | Freon 113 | 45.1 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 78-87-5 | 1,2-Dichloropropane | 47.5 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 78-93-3 | 2-Butanone (MEK) | 205 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 79-00-5 | 1,1,2-Trichloroethane | 45.2 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 79-01-6 | Trichloroethene | 43.3 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 79-20-9 | Methyl Acetate | 42.2 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 79-34-5 | 1,1,2,2-Tetrachloroethane | 44.1 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 95-50-1 | 1,2-Dichlorobenzene | 43 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 96-12-8 | 1,2-Dibromo-3-chloroprop | 46.5 | SC | Yes | Y | |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:2( | INITIAL | 1 | JD52507-6MS | 98-82-8 | Isopropylbenzene | 44.5 | SC | Yes | Y | |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |

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|---|---|---|---|---|---|---|---|---|---|
| | | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | 150 ug/l added |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| U | U | Y | 5.4 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 6.5 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.3 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.9 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.0 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.3 | 20 | 20 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 4.8 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.3 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 6.0 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.4 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 27 | 100 | 100 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 20 | 50 | 50 | ug/l | ug/l | DUSR | ND |

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| 0 | 150 | 146 | 97 | 0 | 150 | 132 | 88 | 10 | 38 | 147 | 12 |
| 2.8 | 50 | 54.8 | 104 | 2.8 | 50 | 51 | 96 | 7 | 52 | 140 | 12 |
| 0 | 50 | 49.4 | 99 | 0 | 50 | 46.2 | 92 | 7 | 70 | 125 | 13 |
| 0 | 50 | 47.8 | 96 | 0 | 50 | 45.5 | 91 | 5 | 66 | 124 | 12 |
| 0 | 50 | 46.3 | 93 | 0 | 50 | 43 | 86 | 7 | 75 | 117 | 12 |
| 0 | 50 | 49.2 | 98 | 0 | 50 | 45 | 90 | 9 | 70 | 132 | 13 |
| 0 | 200 | 222 | 111 | 0 | 200 | 203 | 102 | 9 | 56 | 132 | 16 |
| 0 | 200 | 226 | 113 | 0 | 200 | 198 | 99 | 13 | 22 | 134 | 19 |
| 0 | 50 | 45 | 90 | 0 | 50 | 41.8 | 84 | 7 | 68 | 120 | 13 |
| 0.67 | 50 | 48 | 95 | 0.67 | 50 | 45 | 89 | 6 | 49 | 137 | 12 |
| 0 | 50 | 47.8 | 96 | 0 | 50 | 44.5 | 89 | 7 | 67 | 132 | 13 |
| 0 | 50 | 68.4 | 137 | 0 | 50 | 72.4 | 145 | 6 | 27 | 164 | 38 |
| 0 | 50 | 53.6 | 107 | 0 | 50 | 51.8 | 104 | 3 | 35 | 156 | 18 |
| 0 | 50 | 93.8 | 188 | 0 | 50 | 69.2 | 138 | 30 | 48 | 152 | 17 |
| 0 | 50 | 62.7 | 125 | 0 | 50 | 61.6 | 123 | 2 | 41 | 156 | 16 |
| 0 | 50 | 45.1 | 90 | 0 | 50 | 42.1 | 84 | 7 | 66 | 125 | 14 |
| 0 | 50 | 44.9 | 90 | 0 | 50 | 41.8 | 84 | 7 | 54 | 136 | 16 |
| 0 | 50 | 48.4 | 97 | 0 | 50 | 43.6 | 87 | 10 | 70 | 133 | 13 |
| 0 | 50 | 45 | 90 | 0 | 50 | 43.1 | 86 | 4 | 76 | 121 | 12 |
| 0 | 50 | 50.7 | 101 | 0 | 50 | 47.2 | 94 | 7 | 68 | 129 | 13 |
| 0 | 50 | 54.7 | 109 | 0 | 50 | 48.3 | 97 | 12 | 59 | 133 | 15 |
| 0 | 50 | 91.3 | 183 | 0 | 50 | 87.2 | 174 | 5 | 61 | 145 | 16 |
| 0 | 50 | 51.1 | 102 | 0 | 50 | 50.7 | 101 | 1 | 34 | 163 | 16 |
| 0 | 50 | 54 | 108 | 0 | 50 | 45.1 | 90 | 18 | 61 | 142 | 14 |
| 0 | 50 | 50.4 | 101 | 0 | 50 | 47.5 | 95 | 6 | 73 | 124 | 12 |
| 0 | 200 | 220 | 110 | 0 | 200 | 205 | 103 | 7 | 52 | 137 | 17 |
| 0 | 50 | 48.8 | 98 | 0 | 50 | 45.2 | 90 | 8 | 75 | 120 | 12 |
| 0 | 50 | 47 | 94 | 0 | 50 | 43.3 | 87 | 8 | 56 | 136 | 12 |
| 0 | 50 | 45.3 | 91 | 0 | 50 | 42.2 | 84 | 7 | 51 | 139 | 18 |
| 0 | 50 | 47.1 | 94 | 0 | 50 | 44.1 | 88 | 7 | 68 | 127 | 14 |
| 0 | 50 | 46.3 | 93 | 0 | 50 | 43 | 86 | 7 | 74 | 119 | 12 |
| 0 | 50 | 50.3 | 101 | 0 | 50 | 46.5 | 93 | 8 | 63 | 134 | 16 |
| 0 | 50 | 48.9 | 98 | 0 | 50 | 44.5 | 89 | 9 | 71 | 126 | 13 |

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| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 17060-07- | 1,2-Dichloroethane-D4 | 453 | SUR | Yes | Y | |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 1868-53-7 | Dibromofluoromethane | 490 | SUR | Yes | Y | |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 2037-26-5 | Toluene-D8 | 509 | SUR | Yes | Y | |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 460-00-4 | 4-Bromofluorobenzene | 462 | SUR | Yes | Y | |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 13:12 | DILUTION1 | 100 | JD52507-13 | 156-59-2 | cis-1,2-Dichloroethene | 3200 | TRG | Yes | Y | |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 156-60-5 | trans-1,2-Dichloroethene | 16.8 | TRG | Yes | Y | |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 79-01-6 | Trichloroethene | 24 | TRG | Yes | Y | |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 75-01-4 | Vinyl chloride | 1080 | TRG | Yes | Y | |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:5( | INITIAL | 10 | JD52507-13 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 13:12 | DILUTION1 | 100 | JD52507-13 | 17060-07- | 1,2-Dichloroethane-D4 | 4160 | SUR | No | Y | |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 13:12 | DILUTION1 | 100 | JD52507-13 | 1868-53-7 | Dibromofluoromethane | 5470 | SUR | No | Y | |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 13:12 | DILUTION1 | 100 | JD52507-13 | 2037-26-5 | Toluene-D8 | 4600 | SUR | No | Y | |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 13:12 | DILUTION1 | 100 | JD52507-13 | 460-00-4 | 4-Bromofluorobenzene | 5510 | SUR | No | Y | |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4( | INITIAL | 1 | JD52507-28 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4( | INITIAL | 1 | JD52507-28 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4( | INITIAL | 1 | JD52507-28 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4( | INITIAL | 1 | JD52507-28 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4( | INITIAL | 1 | JD52507-28 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4( | INITIAL | 1 | JD52507-28 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4( | INITIAL | 1 | JD52507-28 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 19 | 50 | 50 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 31 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 4.3 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| U | U | Y | 4.5 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 6.3 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 16 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 4.6 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.5 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.6 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 7.3 | 10 | 10 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| U | U | Y | 5.0 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 7.6 | 10 | 10 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| | | Y | 51 | 100 | 100 | ug/l | ug/l | | DUSR | |
| U | U | Y | 4.7 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 7.8 | 50 | 50 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.6 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.6 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 6.0 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.8 | 50 | 50 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 6.5 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 8.0 | 50 | 50 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.1 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 6.0 | 50 | 50 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 10 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 4.9 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.6 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 4.9 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| | | Y | 5.4 | 10 | 10 | ug/l | ug/l | | DUSR | |
| U | U | Y | 4.3 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| | | Y | 5.3 | 10 | 10 | ug/l | ug/l | | DUSR | |
| UJ | UJ | Y | 4.0 | 20 | 20 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| | | Y | 5.2 | 10 | 10 | ug/l | ug/l | | DUSR | |
| U | U | Y | 5.9 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | | DUSR | ND |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 498 | 453 | 91 | | 80 | 120 |
| 0 | 500 | 490 | 98 | | 80 | 120 |
| 0 | 499 | 509 | 102 | | 80 | 120 |
| 0 | 503 | 462 | 92 | | 82 | 114 |

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

/ outside of control limits low.  A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 5010 | 4160 | 83 | | 80 | 120 |
| 0 | 5020 | 5470 | 109 | | 80 | 120 |
| 0 | 5000 | 4600 | 92 | | 80 | 120 |
| 0 | 5000 | 5510 | 110 | | 82 | 114 |

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| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 17060-07- | 1,2-Dichloroethane-D4 | 45.5 | SUR | Yes | Y | |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 1868-53-7 | Dibromofluoromethane | 49.5 | SUR | Yes | Y | |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 2037-26-5 | Toluene-D8 | 50.6 | SUR | Yes | Y | |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 460-00-4 | 4-Bromofluorobenzene | 47.4 | SUR | Yes | Y | |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 156-59-2 | cis-1,2-Dichloroethene | 1.7 | TRG | Yes | Y | |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 79-01-6 | Trichloroethene | 2.7 | TRG | Yes | Y | |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:4€ | INITIAL | 1 | JD52507-28 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | |
| UJ | UJ | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | ND |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 50 | 45.5 | 91 | | 80 | 120 |
| 0 | 50 | 49.5 | 99 | | 80 | 120 |
| 0 | 50.1 | 50.6 | 101 | | 80 | 120 |
| 0 | 49.9 | 47.4 | 95 | | 82 | 114 |

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

/ outside of control limits low.  A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 10061-02- | trans-1,3-Dichloropropene | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 106-46-7 | 1,4-Dichlorobenzene | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 106-93-4 | 1,2-Dibromoethane | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 107-06-2 | 1,2-Dichloroethane | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 108-87-2 | Methylcyclohexane | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 108-88-3 | Toluene | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 108-90-7 | Chlorobenzene | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 110-82-7 | Cyclohexane | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 120-82-1 | 1,2,4-Trichlorobenzene | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 124-48-1 | Dibromochloromethane | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 127-18-4 | Tetrachloroethene | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 1330-20-7 | Xylene (total) | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 156-59-2 | cis-1,2-Dichloroethene | 1.5 | | TRG | Yes | Y | |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 156-60-5 | trans-1,2-Dichloroethene | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 1634-04-4 | Methyl Tert Butyl Ether | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 17060-07- | 1,2-Dichloroethane-D4 | 50.2 | | SUR | Yes | Y | |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 1868-53-7 | Dibromofluoromethane | 50.8 | | SUR | Yes | Y | |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 2037-26-5 | Toluene-D8 | 50.4 | | SUR | Yes | Y | |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 460-00-4 | 4-Bromofluorobenzene | 48.2 | | SUR | Yes | Y | |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 541-73-1 | 1,3-Dichlorobenzene | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 56-23-5 | Carbon tetrachloride | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 591-78-6 | 2-Hexanone | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 67-64-1 | Acetone | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 67-66-3 | Chloroform | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 71-43-2 | Benzene | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 71-55-6 | 1,1,1-Trichloroethane | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 74-83-9 | Bromomethane | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 74-87-3 | Chloromethane | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 75-00-3 | Chloroethane | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 75-01-4 | Vinyl chloride | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 75-09-2 | Methylene chloride | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 75-15-0 | Carbon disulfide | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 75-25-2 | Bromoform | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 75-27-4 | Bromodichloromethane | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 75-34-3 | 1,1-Dichloroethane | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 75-35-4 | 1,1-Dichloroethene | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 75-69-4 | Trichlorofluoromethane | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 75-71-8 | Dichlorodifluoromethane | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 76-13-1 | Freon 113 | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 78-87-5 | 1,2-Dichloropropane | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 78-93-3 | 2-Butanone (MEK) | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 79-00-5 | 1,1,2-Trichloroethane | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 79-01-6 | Trichloroethene | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 79-20-9 | Methyl Acetate | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 95-50-1 | 1,2-Dichlorobenzene | | | TRG | Yes | N | U |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:3€ | INITIAL | 1 | JD52507-17 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | | TRG | Yes | N | U |

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|---|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.73 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | | DUSR | ND |

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|---|---|---|---|---|---|---|
| 0 | 50.2 | 50.2 | 100 | | 80 | 120 |
| 0 | 49.8 | 50.8 | 102 | | 80 | 120 |
| 0 | 49.9 | 50.4 | 101 | | 80 | 120 |
| 0 | 50.2 | 48.2 | 96 | | 82 | 114 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:36 | INITIAL | 1 | JD52507-17 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 156-59-2 | cis-1,2-Dichloroethene | 163 | TRG | Yes | Y | |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 17060-07- | 1,2-Dichloroethane-D4 | 50 | SUR | Yes | Y | |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 1868-53-7 | Dibromofluoromethane | 50.1 | SUR | Yes | Y | |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 2037-26-5 | Toluene-D8 | 50.1 | SUR | Yes | Y | |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 460-00-4 | 4-Bromofluorobenzene | 48.9 | SUR | Yes | Y | |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 67-64-1 | Acetone | 3.1 | TRG | Yes | Y | J |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 67-66-3 | Chloroform | | TRG | Yes | N | J |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 71-43-2 | Benzene | 3.7 | TRG | Yes | Y | |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 75-01-4 | Vinyl chloride | 1.7 | TRG | Yes | Y | |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00 | INITIAL | 1 | JD52507-18 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.65 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.9 | | 5 | 5 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | | 5 | 5 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | | 5 | 5 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| | | Y | 0.51 | | 1 | 1 ug/l | ug/l | DUSR | |
| U | U | Y | 0.54 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| | | Y | 0 | | 0 | 0 % | % | DUSR | |
| | | Y | 0 | | 0 | 0 % | % | DUSR | |
| | | Y | 0 | | 0 | 0 % | % | DUSR | |
| | | Y | 0 | | 0 | 0 % | % | DUSR | |
| U | U | Y | 0.54 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | | 5 | 5 ug/l | ug/l | DUSR | ND |
| J | J | Y | 3.1 | | 10 | 10 ug/l | ug/l | DUSR | |
| U | U | Y | | 0.52 | 1 | 1 ug/l | ug/l | DUSR | |
| | | Y | 0.43 | | 0.5 | 0.5 ug/l | ug/l | DUSR | |
| U | U | Y | 0.54 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.6 | | 2 | 2 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.76 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.73 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| | | Y | 0.52 | | 1 | 1 ug/l | ug/l | DUSR | |
| U | U | Y | 1.0 | | 2 | 2 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | | 2 | 2 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.40 | | 2 | 2 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | | 2 | 2 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | | 5 | 5 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | | 10 | 10 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | | 5 | 5 ug/l | ug/l | DUSR | ND |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 50 | 50 | 100 | | 80 | 120 |
| 0 | 50.1 | 50.1 | 100 | | 80 | 120 |
| 0 | 50.1 | 50.1 | 100 | | 80 | 120 |
| 0 | 49.9 | 48.9 | 98 | | 82 | 114 |

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| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:0( | INITIAL | 1 | JD52507-18 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:0( | INITIAL | 1 | JD52507-18 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:0( | INITIAL | 1 | JD52507-18 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:0( | INITIAL | 1 | JD52507-18 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/29/2022 12:0( | DILUTION1 | 10 | JD52507-18 | 17060-07- | 1,2-Dichloroethane-D4 | 490 | SUR | No | Y | |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/29/2022 12:0( | DILUTION1 | 10 | JD52507-18 | 1868-53-7 | Dibromofluoromethane | 482 | SUR | No | Y | |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/29/2022 12:0( | DILUTION1 | 10 | JD52507-18 | 2037-26-5 | Toluene-D8 | 498 | SUR | No | Y | |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/29/2022 12:0( | DILUTION1 | 10 | JD52507-18 | 460-00-4 | 4-Bromofluorobenzene | 502 | SUR | No | Y | |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/29/2022 12:0( | DILUTION1 | 10 | JD52507-18 | 79-01-6 | Trichloroethene | 219 | TRG | Yes | Y | |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 156-60-5 | trans-1,2-Dichloroethene | 1.7 | TRG | Yes | Y | |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 17060-07- | 1,2-Dichloroethane-D4 | 49.9 | SUR | Yes | Y | |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 1868-53-7 | Dibromofluoromethane | 49.6 | SUR | Yes | Y | |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 2037-26-5 | Toluene-D8 | 51.6 | SUR | Yes | Y | |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 460-00-4 | 4-Bromofluorobenzene | 50.1 | SUR | Yes | Y | |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 67-64-1 | Acetone | 4.6 | TRG | Yes | Y | J |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 75-01-4 | Vinyl chloride | 19.1 | TRG | Yes | Y | |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:3( | INITIAL | 1 | JD52507-8 | 75-35-4 | 1,1-Dichloroethene | 0.61 | TRG | Yes | Y | J |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | | DUSR | |
| | | Y | 5.3 | 10 | 10 | ug/l | ug/l | | | DUSR | |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| | | Y | 0.54 | 1 | 1 | ug/l | ug/l | | | DUSR | |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | | | DUSR | ND |
| J | J | Y | 3.1 | 10 | 10 | ug/l | ug/l | | | DUSR | |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.73 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| | | Y | 0.52 | 1 | 1 | ug/l | ug/l | | | DUSR | |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | | | DUSR | ND |
| J | J | Y | 0.59 | 1 | 1 | ug/l | ug/l | | | DUSR | |

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|---|---|---|---|---|---|---|
| 0 | 500 | 490 | 98 | | 80 | 120 |
| 0 | 503 | 482 | 96 | | 80 | 120 |
| 0 | 498 | 498 | 100 | | 80 | 120 |
| 0 | 502 | 502 | 100 | | 82 | 114 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 49.9 | 49.9 | 100 | | 80 | 120 |
| 0 | 50.1 | 49.6 | 99 | | 80 | 120 |
| 0 | 50.1 | 51.6 | 103 | | 80 | 120 |
| 0 | 50.1 | 50.1 | 100 | | 82 | 114 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:33 | INITIAL | 1 | JD52507-8 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 9/30/2022 14:33 | INITIAL | 1 | JD52507-8 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:33 | INITIAL | 1 | JD52507-8 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:33 | INITIAL | 1 | JD52507-8 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:33 | INITIAL | 1 | JD52507-8 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:33 | INITIAL | 1 | JD52507-8 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:33 | INITIAL | 1 | JD52507-8 | 79-01-6 | Trichloroethene | 4.7 | TRG | Yes | Y | |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:33 | INITIAL | 1 | JD52507-8 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:33 | INITIAL | 1 | JD52507-8 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:33 | INITIAL | 1 | JD52507-8 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:33 | INITIAL | 1 | JD52507-8 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:33 | INITIAL | 1 | JD52507-8 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 15:45 | DILUTION1 | 10 | JD52507-8 | 156-59-2 | cis-1,2-Dichloroethene | 451 | TRG | Yes | Y | |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 15:45 | DILUTION1 | 10 | JD52507-8 | 17060-07- | 1,2-Dichloroethane-D4 | 500 | SUR | No | Y | |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 15:45 | DILUTION1 | 10 | JD52507-8 | 1868-53-7 | Dibromofluoromethane | 496 | SUR | No | Y | |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 15:45 | DILUTION1 | 10 | JD52507-8 | 2037-26-5 | Toluene-D8 | 510 | SUR | No | Y | |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 15:45 | DILUTION1 | 10 | JD52507-8 | 460-00-4 | 4-Bromofluorobenzene | 536 | SUR | No | Y | |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 156-59-2 | cis-1,2-Dichloroethene | 4 | TRG | Yes | Y | |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 17060-07- | 1,2-Dichloroethane-D4 | 49 | SUR | Yes | Y | |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 1868-53-7 | Dibromofluoromethane | 47.8 | SUR | Yes | Y | |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 2037-26-5 | Toluene-D8 | 49.8 | SUR | Yes | Y | |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 460-00-4 | 4-Bromofluorobenzene | 50.4 | SUR | Yes | Y | |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 5.1 | 10 | 10 | ug/l | ug/l | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND, Associated CCV |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 500 | 500 | 100 | | 80 | 120 |
| 0 | 501 | 496 | 99 | | 80 | 120 |
| 0 | 500 | 510 | 102 | | 80 | 120 |
| 0 | 501 | 536 | 107 | | 82 | 114 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 50 | 49 | 98 | | 80 | 120 |
| 0 | 49.8 | 47.8 | 96 | | 80 | 120 |
| 0 | 49.8 | 49.8 | 100 | | 80 | 120 |
| 0 | 49.9 | 50.4 | 101 | | 82 | 114 |

/ outside of control limits high, sample was ND.

JD52507
JD52507
JD52507

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 75-01-4 | Vinyl chloride | 19 | TRG | Yes | Y | |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41 | INITIAL | 1 | JD52507-22 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 17060-07- | 1,2-Dichloroethane-D4 | 49.2 | SUR | Yes | Y | |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 1868-53-7 | Dibromofluoromethane | 53.4 | SUR | Yes | Y | |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 2037-26-5 | Toluene-D8 | 52.3 | SUR | Yes | Y | |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 460-00-4 | 4-Bromofluorobenzene | 48.8 | SUR | Yes | Y | |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.73 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0.52 | 1 | 1 | ug/l | ug/l | | DUSR | |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 1.6 | 2 | 2 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | | DUSR | ND |

| | | | | | |
|---|---|---|---|---|---|
| 0 | 50.2 | 49.2 | 98 | 80 | 120 |
| 0 | 49.9 | 53.4 | 107 | 80 | 120 |
| 0 | 49.8 | 52.3 | 105 | 80 | 120 |
| 0 | 49.8 | 48.8 | 98 | 82 | 114 |

/ outside of control limits high, sample was ND.This compound in blank spkie is outside in house QC limits bias high.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10 | INITIAL | 1 | JD52507-32 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 17060-07- | 1,2-Dichloroethane-D4 | 47.3 | SUR | Yes | Y | |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 1868-53-7 | Dibromofluoromethane | 49.8 | SUR | Yes | Y | |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 2037-26-5 | Toluene-D8 | 50.7 | SUR | Yes | Y | |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 460-00-4 | 4-Bromofluorobenzene | 46.4 | SUR | Yes | Y | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

/ outside of control limits high, sample was ND.

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|---|---|---|---|---|---|---|
| 0 | 49.8 | 47.3 | 95 | | 80 | 120 |
| 0 | 49.8 | 49.8 | 100 | | 80 | 120 |
| 0 | 50.2 | 50.7 | 101 | | 80 | 120 |
| 0 | 49.8 | 46.4 | 93 | | 82 | 114 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 67-64-1 | Acetone | 4.8 | TRG | Yes | Y | J |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14 | INITIAL | 1 | JD52507-24 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| J | J | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CC\ |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CC\ |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND, Associated CC\ |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |

/ outside of control limits low.  A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

JD52507
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| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 17060-07- | 1,2-Dichloroethane-D4 | 46.3 | SUR | Yes | Y | |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 1868-53-7 | Dibromofluoromethane | 49.2 | SUR | Yes | Y | |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 2037-26-5 | Toluene-D8 | 50.8 | SUR | Yes | Y | |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 460-00-4 | 4-Bromofluorobenzene | 46.8 | SUR | Yes | Y | |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 156-59-2 | cis-1,2-Dichloroethene | 1.7 | TRG | Yes | Y | |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 79-01-6 | Trichloroethene | 2.5 | TRG | Yes | Y | |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23 | INITIAL | 1 | JD52507-27 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:48 | INITIAL | 1 | JD52507-15 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:48 | INITIAL | 1 | JD52507-15 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:48 | INITIAL | 1 | JD52507-15 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:48 | INITIAL | 1 | JD52507-15 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:48 | INITIAL | 1 | JD52507-15 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:48 | INITIAL | 1 | JD52507-15 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:48 | INITIAL | 1 | JD52507-15 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:48 | INITIAL | 1 | JD52507-15 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:48 | INITIAL | 1 | JD52507-15 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:48 | INITIAL | 1 | JD52507-15 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:48 | INITIAL | 1 | JD52507-15 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:48 | INITIAL | 1 | JD52507-15 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:48 | INITIAL | 1 | JD52507-15 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:48 | INITIAL | 1 | JD52507-15 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:48 | INITIAL | 1 | JD52507-15 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | |
| UJ | UJ | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 49.8 | 46.3 | 93 | | 80 | 120 |
| 0 | 50.2 | 49.2 | 98 | | 80 | 120 |
| 0 | 49.8 | 50.8 | 102 | | 80 | 120 |
| 0 | 49.8 | 46.8 | 94 | | 82 | 114 |

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

/ outside of control limits low.  A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

JD52507
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JD52507

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 17060-07- | 1,2-Dichloroethane-D4 | 49.4 | SUR | Yes | Y | |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 1868-53-7 | Dibromofluoromethane | 49.6 | SUR | Yes | Y | |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 2037-26-5 | Toluene-D8 | 50.7 | SUR | Yes | Y | |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 460-00-4 | 4-Bromofluorobenzene | 49.7 | SUR | Yes | Y | |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:4€ | INITIAL | 1 | JD52507-15 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0C | INITIAL | 1 | JD52507-26 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0C | INITIAL | 1 | JD52507-26 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0C | INITIAL | 1 | JD52507-26 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0C | INITIAL | 1 | JD52507-26 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0C | INITIAL | 1 | JD52507-26 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0C | INITIAL | 1 | JD52507-26 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0C | INITIAL | 1 | JD52507-26 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0C | INITIAL | 1 | JD52507-26 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0C | INITIAL | 1 | JD52507-26 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0C | INITIAL | 1 | JD52507-26 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0C | INITIAL | 1 | JD52507-26 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.73 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |

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|---|---|---|---|---|---|---|
| 0 | 49.9 | 49.4 | 99 | | 80 | 120 |
| 0 | 50.1 | 49.6 | 99 | | 80 | 120 |
| 0 | 50.2 | 50.7 | 101 | | 80 | 120 |
| 0 | 50.2 | 49.7 | 99 | | 82 | 114 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 17060-07- | 1,2-Dichloroethane-D4 | 46.4 | SUR | Yes | Y | |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 1868-53-7 | Dibromofluoromethane | 48.9 | SUR | Yes | Y | |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 2037-26-5 | Toluene-D8 | 51.8 | SUR | Yes | Y | |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 460-00-4 | 4-Bromofluorobenzene | 46.5 | SUR | Yes | Y | |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:0( | INITIAL | 1 | JD52507-26 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 49.8 | 46.4 | 93 | | 80 | 120 |
| 0 | 49.9 | 48.9 | 98 | | 80 | 120 |
| 0 | 49.8 | 51.8 | 104 | | 80 | 120 |
| 0 | 50 | 46.5 | 93 | | 82 | 114 |

/ outside of control limits low.  A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

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| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 17060-07- | 1,2-Dichloroethane-D4 | 48 | SUR | Yes | Y | |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 1868-53-7 | Dibromofluoromethane | 53.2 | SUR | Yes | Y | |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 2037-26-5 | Toluene-D8 | 52 | SUR | Yes | Y | |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 460-00-4 | 4-Bromofluorobenzene | 49.1 | SUR | Yes | Y | |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03 | INITIAL | 1 | JD52507-35 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:33 | INITIAL | 1 | JD52507-34 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:33 | INITIAL | 1 | JD52507-34 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:33 | INITIAL | 1 | JD52507-34 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND, Associated CC\ |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CC\ |
| UJ | UJ | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CC\ |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | ND |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 50 | 48 | 96 | | 80 | 120 |
| 0 | 50.2 | 53.2 | 106 | | 80 | 120 |
| 0 | 50 | 52 | 104 | | 80 | 120 |
| 0 | 50.1 | 49.1 | 98 | | 82 | 114 |

/ outside of control limits high, sample was ND.This compound in blank spkie is outside in house QC limits bias high.
/ outside of control limits high, sample was ND.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 10061-02- | trans-1,3-Dichloropropene | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 106-46-7 | 1,4-Dichlorobenzene | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 106-93-4 | 1,2-Dibromoethane | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 107-06-2 | 1,2-Dichloroethane | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 108-87-2 | Methylcyclohexane | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 108-88-3 | Toluene | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 108-90-7 | Chlorobenzene | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 110-82-7 | Cyclohexane | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 120-82-1 | 1,2,4-Trichlorobenzene | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 124-48-1 | Dibromochloromethane | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 127-18-4 | Tetrachloroethene | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 1330-20-7 | Xylene (total) | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 156-59-2 | cis-1,2-Dichloroethene | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 156-60-5 | trans-1,2-Dichloroethene | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 1634-04-4 | Methyl Tert Butyl Ether | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 17060-07- | 1,2-Dichloroethane-D4 | 49.9 | | SUR | Yes | Y | |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 1868-53-7 | Dibromofluoromethane | 54.2 | | SUR | Yes | Y | |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 2037-26-5 | Toluene-D8 | 52.2 | | SUR | Yes | Y | |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 460-00-4 | 4-Bromofluorobenzene | 48.9 | | SUR | Yes | Y | |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 541-73-1 | 1,3-Dichlorobenzene | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 56-23-5 | Carbon tetrachloride | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 591-78-6 | 2-Hexanone | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 67-64-1 | Acetone | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 67-66-3 | Chloroform | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 71-43-2 | Benzene | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 71-55-6 | 1,1,1-Trichloroethane | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 74-83-9 | Bromomethane | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 74-87-3 | Chloromethane | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 75-00-3 | Chloroethane | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 75-01-4 | Vinyl chloride | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 75-09-2 | Methylene chloride | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 75-15-0 | Carbon disulfide | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 75-25-2 | Bromoform | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 75-27-4 | Bromodichloromethane | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 75-34-3 | 1,1-Dichloroethane | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 75-35-4 | 1,1-Dichloroethene | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 75-69-4 | Trichlorofluoromethane | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 75-71-8 | Dichlorodifluoromethane | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 76-13-1 | Freon 113 | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 78-87-5 | 1,2-Dichloropropane | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 78-93-3 | 2-Butanone (MEK) | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 79-00-5 | 1,1,2-Trichloroethane | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 79-01-6 | Trichloroethene | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 79-20-9 | Methyl Acetate | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 95-50-1 | 1,2-Dichlorobenzene | | | TRG | Yes | N | U |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:3 | INITIAL | 1 | JD52507-34 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | | TRG | Yes | N | U |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 1.6 | 2 | 2 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| UJ | UJ | Y | 0.52 | 1 | 1 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | | DUSR | ND |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 49.9 | 49.9 | 100 | | 80 | 120 |
| 0 | 50.1 | 54.2 | 108 | | 80 | 120 |
| 0 | 50.2 | 52.2 | 104 | | 80 | 120 |
| 0 | 49.9 | 48.9 | 98 | | 82 | 114 |

/ outside of control limits high, sample was ND.This compound in blank spkie is outside in house QC limits bias high.

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.
/ outside of control limits high, sample was ND.

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| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:33 | INITIAL | 1 | JD52507-34 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 156-59-2 | cis-1,2-Dichloroethene | 5720 | TRG | Yes | Y | |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 156-60-5 | trans-1,2-Dichloroethene | 31.8 | TRG | Yes | Y | J |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 17060-07- | 1,2-Dichloroethane-D4 | 2360 | SUR | Yes | Y | |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 1868-53-7 | Dibromofluoromethane | 2480 | SUR | Yes | Y | |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 2037-26-5 | Toluene-D8 | 2480 | SUR | Yes | Y | |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 460-00-4 | 4-Bromofluorobenzene | 2330 | SUR | Yes | Y | |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 75-01-4 | Vinyl chloride | 67.9 | TRG | Yes | Y | |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09 | INITIAL | 50 | JD52507-29 | 79-01-6 | Trichloroethene | 7600 | TRG | Yes | Y | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 30 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 24 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 24 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 22 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 25 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 24 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 30 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 93 | 250 | 250 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 30 | 250 | 250 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 25 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 28 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 39 | 250 | 250 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 25 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 28 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 28 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 30 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| | | Y | 25 | 50 | 50 | ug/l | ug/l | DUSR | |
| J | J | Y | 27 | 50 | 50 | ug/l | ug/l | DUSR | |
| U | U | Y | 25 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| U | U | Y | 27 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 28 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 100 | 250 | 250 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 150 | 500 | 500 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 25 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 21 | 25 | 25 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 27 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 82 | 100 | 100 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 38 | 50 | 50 | ug/l | ug/l | DUSR | ND, Associated CCV |
| UJ | UJ | Y | 36 | 50 | 50 | ug/l | ug/l | DUSR | ND, Associated CCV |
| | | Y | 26 | 50 | 50 | ug/l | ug/l | DUSR | |
| U | U | Y | 50 | 100 | 100 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 23 | 100 | 100 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 32 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 23 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 28 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 30 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 20 | 100 | 100 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 28 | 100 | 100 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 29 | 250 | 250 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 25 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 140 | 500 | 500 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 27 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| | | Y | 26 | 50 | 50 | ug/l | ug/l | DUSR | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0 | 2510 | 2360 | 94 | | | 80 | 120 |
| 0 | 2500 | 2480 | 99 | | | 80 | 120 |
| 0 | 2500 | 2480 | 99 | | | 80 | 120 |
| 0 | 2500 | 2330 | 93 | | | 82 | 114 |

/ outside of control limits low.  A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:0 | INITIAL | 50 | JD52507-29 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:0 | INITIAL | 50 | JD52507-29 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:0 | INITIAL | 50 | JD52507-29 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:0 | INITIAL | 50 | JD52507-29 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:0 | INITIAL | 50 | JD52507-29 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 156-59-2 | cis-1,2-Dichloroethene | 7.8 | TRG | Yes | Y | |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 17060-07- | 1,2-Dichloroethane-D4 | 46.9 | SUR | Yes | Y | |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 1868-53-7 | Dibromofluoromethane | 49.6 | SUR | Yes | Y | |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 2037-26-5 | Toluene-D8 | 50.7 | SUR | Yes | Y | |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 460-00-4 | 4-Bromofluorobenzene | 46.5 | SUR | Yes | Y | |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 67-66-3 | Chloroform | | TRG | Yes | N | J |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 71-55-6 | 1,1,1-Trichloroethane | 0.58 | TRG | Yes | Y | J |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:4 | INITIAL | 1 | JD52507-7 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 40 | | 250 | 250 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 33 | | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 27 | | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 26 | | 100 | 100 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 32 | | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.9 | | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.51 | | 1 | 1 | ug/l | ug/l | DUSR | |
| U | U | Y | 0.54 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0 | | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | | 0 | 0 | % | % | DUSR | |
| U | U | Y | 0.54 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | |
| U | U | Y | 0.43 | | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| J | J | Y | 0.54 | | 1 | 1 | ug/l | ug/l | DUSR | |
| U | U | Y | 1.6 | | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.76 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.73 | | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.52 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.40 | | 2 | 2 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.56 | | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | | 5 | 5 | ug/l | ug/l | DUSR | ND |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0 | 49.9 | 46.9 | 94 | | | 80 | 120 |
| 0 | 50.1 | 49.6 | 99 | | | 80 | 120 |
| 0 | 50.2 | 50.7 | 101 | | | 80 | 120 |
| 0 | 50 | 46.5 | 93 | | | 82 | 114 |

/ outside of control limits high, sample was ND.

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

JD52507
JD52507
JD52507

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:49 | INITIAL | 1 | JD52507-7 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:49 | INITIAL | 1 | JD52507-7 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:49 | INITIAL | 1 | JD52507-7 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:49 | INITIAL | 1 | JD52507-7 | 79-01-6 | Trichloroethene | 35.1 | TRG | Yes | Y | |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:49 | INITIAL | 1 | JD52507-7 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:49 | INITIAL | 1 | JD52507-7 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:49 | INITIAL | 1 | JD52507-7 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:49 | INITIAL | 1 | JD52507-7 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:49 | INITIAL | 1 | JD52507-7 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 156-59-2 | cis-1,2-Dichloroethene | 10 | TRG | Yes | Y | |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 17060-07- | 1,2-Dichloroethane-D4 | 46.7 | SUR | Yes | Y | |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 1868-53-7 | Dibromofluoromethane | 50.2 | SUR | Yes | Y | |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 2037-26-5 | Toluene-D8 | 50.9 | SUR | Yes | Y | |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 460-00-4 | 4-Bromofluorobenzene | 47.4 | SUR | Yes | Y | |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 1.6 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 0.76 | 1 | 1 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | | DUSR | ND |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 50.2 | 46.7 | 93 | | 80 | 120 |
| 0 | 50.2 | 50.2 | 100 | | 80 | 120 |
| 0 | 49.9 | 50.9 | 102 | | 80 | 120 |
| 0 | 49.9 | 47.4 | 95 | | 82 | 114 |

/ outside of control limits low.  A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

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| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 79-01-6 | Trichloroethene | 5.6 | TRG | Yes | Y | |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41 | INITIAL | 1 | JD52507-9 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 127-18-4 | Tetrachloroethene | 1.6 | TRG | Yes | Y | |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 156-60-5 | trans-1,2-Dichloroethene | 149 | TRG | Yes | Y | |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 17060-07- | 1,2-Dichloroethane-D4 | 46.4 | SUR | Yes | Y | |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 1868-53-7 | Dibromofluoromethane | 51.3 | SUR | Yes | Y | |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 2037-26-5 | Toluene-D8 | 49.7 | SUR | Yes | Y | |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 460-00-4 | 4-Bromofluorobenzene | 47.6 | SUR | Yes | Y | |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 67-66-3 | Chloroform | | TRG | Yes | N | J |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 75-01-4 | Vinyl chloride | 110 | TRG | Yes | Y | |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 75-15-0 | Carbon disulfide | 0.5 | TRG | Yes | Y | J |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.59 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.40 | | 2 | 2 ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.56 | | 2 | 2 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | | 5 | 5 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | | 10 | 10 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| | | Y | 0.53 | | 1 | 1 ug/l | ug/l | DUSR | |
| U | U | Y | 0.80 | | 5 | 5 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | | 2 | 2 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.9 | | 5 | 5 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | | 5 | 5 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | | 5 | 5 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| | | Y | 0.56 | | 1 | 1 ug/l | ug/l | DUSR | |
| U | U | Y | 0.59 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| | | Y | 0.54 | | 1 | 1 ug/l | ug/l | DUSR | |
| U | U | Y | 0.51 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| | | Y | 0 | | 0 | 0 % | % | DUSR | |
| | | Y | 0 | | 0 | 0 % | % | DUSR | |
| | | Y | 0 | | 0 | 0 % | % | DUSR | |
| | | Y | 0 | | 0 | 0 % | % | DUSR | |
| U | U | Y | 0.54 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | | 5 | 5 ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | | 10 | 10 ug/l | ug/l | DUSR | ND |
| U | U | Y | | 0.8 | 1 | 1 ug/l | ug/l | DUSR | |
| U | U | Y | 0.43 | | 0.5 | 0.5 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.6 | | 2 | 2 ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.76 | | 1 | 1 ug/l | ug/l | DUSR | ND, Associated CCV |
| UJ | UJ | Y | 0.73 | | 1 | 1 ug/l | ug/l | DUSR | ND, Associated CCV |
| | | Y | 0.52 | | 1 | 1 ug/l | ug/l | DUSR | |
| U | U | Y | 1.0 | | 2 | 2 ug/l | ug/l | DUSR | ND |
| J | J | Y | 0.46 | | 2 | 2 ug/l | ug/l | DUSR | |

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 49.9 | 46.4 | 93 | | 80 | 120 |
| 0 | 49.9 | 51.3 | 103 | | 80 | 120 |
| 0 | 50.2 | 49.7 | 99 | | 80 | 120 |
| 0 | 50.1 | 47.6 | 95 | | 82 | 114 |

/ outside of control limits low.  A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

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| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 75-35-4 | 1,1-Dichloroethene | 16.8 | TRG | Yes | Y | |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32 | INITIAL | 1 | JD52507-30 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-3B-ACTD-JD52507AQ | SW8260 | 10/03/2022 18:30 | DILUTION1 | 200 | JD52507-30 | 156-59-2 | cis-1,2-Dichloroethene | 7150 | TRG | Yes | Y | |
| MW-3B-ACTD-JD52507AQ | SW8260 | 10/03/2022 18:30 | DILUTION1 | 200 | JD52507-30 | 17060-07- | 1,2-Dichloroethane-D4 | 10000 | SUR | No | Y | |
| MW-3B-ACTD-JD52507AQ | SW8260 | 10/03/2022 18:30 | DILUTION1 | 200 | JD52507-30 | 1868-53-7 | Dibromofluoromethane | 10600 | SUR | No | Y | |
| MW-3B-ACTD-JD52507AQ | SW8260 | 10/03/2022 18:30 | DILUTION1 | 200 | JD52507-30 | 2037-26-5 | Toluene-D8 | 10500 | SUR | No | Y | |
| MW-3B-ACTD-JD52507AQ | SW8260 | 10/03/2022 18:30 | DILUTION1 | 200 | JD52507-30 | 460-00-4 | 4-Bromofluorobenzene | 10000 | SUR | No | Y | |
| MW-3B-ACTD-JD52507AQ | SW8260 | 10/03/2022 18:30 | DILUTION1 | 200 | JD52507-30 | 79-01-6 | Trichloroethene | 4730 | TRG | Yes | Y | |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 156-59-2 | cis-1,2-Dichloroethene | 14600 | TRG | Yes | Y | |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 156-60-5 | trans-1,2-Dichloroethene | 112 | TRG | Yes | Y | |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 17060-07- | 1,2-Dichloroethane-D4 | 4940 | SUR | Yes | Y | |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 1868-53-7 | Dibromofluoromethane | 5060 | SUR | Yes | Y | |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 2037-26-5 | Toluene-D8 | 5060 | SUR | Yes | Y | |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 460-00-4 | 4-Bromofluorobenzene | 4650 | SUR | Yes | Y | |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 67-64-1 | Acetone | | TRG | Yes | N | U |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | |
| UJ | UJ | Y | 0.40 | 2 | 2 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 100 | 200 | 200 | ug/l | ug/l | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 110 | 200 | 200 | ug/l | ug/l | | DUSR | |
| U | U | Y | 60 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 49 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 47 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 43 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 51 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 48 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 60 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 190 | 500 | 500 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 60 | 500 | 500 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 49 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 56 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 78 | 500 | 500 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 50 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 56 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 56 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 59 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| | | Y | 51 | 100 | 100 | ug/l | ug/l | | DUSR | |
| | | Y | 54 | 100 | 100 | ug/l | ug/l | | DUSR | |
| U | U | Y | 51 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| U | U | Y | 54 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 55 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 200 | 500 | 500 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 310 | 1000 | 1000 | ug/l | ug/l | | DUSR | ND |

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

| | | | | | |
|---|---|---|---|---|---|
| 0 | 10000 | 10000 | 100 | 80 | 120 |
| 0 | 10000 | 10600 | 106 | 80 | 120 |
| 0 | 9970 | 10500 | 105 | 80 | 120 |
| 0 | 10000 | 10000 | 100 | 82 | 114 |

| | | | | | |
|---|---|---|---|---|---|
| 0 | 4990 | 4940 | 99 | 80 | 120 |
| 0 | 5010 | 5060 | 101 | 80 | 120 |
| 0 | 5010 | 5060 | 101 | 80 | 120 |
| 0 | 5000 | 4650 | 93 | 82 | 114 |

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| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 75-01-4 | Vinyl chloride | 8960 | TRG | Yes | Y | |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04 | INITIAL | 100 | JD52507-11 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 156-60-5 | trans-1,2-Dichloroethene | 42 | TRG | Yes | Y | |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 17060-07- | 1,2-Dichloroethane-D4 | 1160 | SUR | Yes | Y | |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 1868-53-7 | Dibromofluoromethane | 989 | SUR | Yes | Y | |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 2037-26-5 | Toluene-D8 | 1040 | SUR | Yes | Y | |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 460-00-4 | 4-Bromofluorobenzene | 964 | SUR | Yes | Y | |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 50 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 43 | 50 | 50 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 54 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 160 | 200 | 200 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 76 | 100 | 100 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| UJ | UJ | Y | 73 | 100 | 100 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| | | Y | 52 | 100 | 100 | ug/l | ug/l | | DUSR | |
| U | U | Y | 100 | 200 | 200 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 46 | 200 | 200 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 63 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 45 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 57 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 59 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 40 | 200 | 200 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| U | U | Y | 56 | 200 | 200 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 58 | 500 | 500 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 51 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 270 | 1000 | 1000 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 53 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 53 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 80 | 500 | 500 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 65 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 53 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 53 | 200 | 200 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 65 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 12 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 9.7 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 9.4 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 8.6 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 10 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 9.5 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 12 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 37 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 12 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 9.8 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 11 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 16 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 10 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 11 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 11 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 12 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| | | Y | 11 | 20 | 20 | ug/l | ug/l | | DUSR | |
| U | U | Y | 10 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| U | U | Y | 11 | 20 | 20 | ug/l | ug/l | | DUSR | ND |

/ outside of control limits low.  A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 999 | 1160 | 116 | | 80 | 120 |
| 0 | 999 | 989 | 99 | | 80 | 120 |
| 0 | 1000 | 1040 | 104 | | 80 | 120 |
| 0 | 1000 | 964 | 96 | | 82 | 114 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 75-01-4 | Vinyl chloride | 964 | TRG | Yes | Y | |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 79-01-6 | Trichloroethene | 1090 | TRG | Yes | Y | |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09 | INITIAL | 20 | JD52507-10 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 16:09 | DILUTION1 | 100 | JD52507-10 | 156-59-2 | cis-1,2-Dichloroethene | 11200 | TRG | Yes | Y | |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 16:09 | DILUTION1 | 100 | JD52507-10 | 17060-07- | 1,2-Dichloroethane-D4 | 5050 | SUR | No | Y | |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 16:09 | DILUTION1 | 100 | JD52507-10 | 1868-53-7 | Dibromofluoromethane | 5040 | SUR | No | Y | |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 16:09 | DILUTION1 | 100 | JD52507-10 | 2037-26-5 | Toluene-D8 | 5150 | SUR | No | Y | |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 16:09 | DILUTION1 | 100 | JD52507-10 | 460-00-4 | 4-Bromofluorobenzene | 4880 | SUR | No | Y | |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |

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|---|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 11 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 41 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 61 | 200 | 200 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 10 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 8.5 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 11 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 33 | 40 | 40 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 15 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 15 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| | | Y | 10 | 20 | 20 | ug/l | ug/l | | DUSR | |
| U | U | Y | 20 | 40 | 40 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 9.1 | 40 | 40 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 13 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 9.0 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 11 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 12 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 8.0 | 40 | 40 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 11 | 40 | 40 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 12 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 10 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 55 | 200 | 200 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 11 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| | | Y | 11 | 20 | 20 | ug/l | ug/l | | DUSR | |
| U | U | Y | 16 | 100 | 100 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 13 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 11 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 11 | 40 | 40 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 13 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| | | Y | 51 | 100 | 100 | ug/l | ug/l | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |

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|---|---|---|---|---|---|---|---|
| 0 | 5000 | 5050 | 101 | | | 80 | 120 |
| 0 | 4990 | 5040 | 101 | | | 80 | 120 |
| 0 | 5000 | 5150 | 103 | | | 80 | 120 |
| 0 | 4980 | 4880 | 98 | | | 82 | 114 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 17060-07- | 1,2-Dichloroethane-D4 | 49.9 | SUR | Yes | Y | |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 1868-53-7 | Dibromofluoromethane | 48.9 | SUR | Yes | Y | |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 2037-26-5 | Toluene-D8 | 50.7 | SUR | Yes | Y | |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 460-00-4 | 4-Bromofluorobenzene | 50.2 | SUR | Yes | Y | |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 67-64-1 | Acetone | 3.2 | TRG | Yes | Y | J |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 75-01-4 | Vinyl chloride | 1.4 | TRG | Yes | Y | |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47 | INITIAL | 1 | JD52507-20 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| J | J | Y | 3.1 | 10 | 10 | ug/l | ug/l | | DUSR | |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.73 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0.52 | 1 | 1 | ug/l | ug/l | | DUSR | |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 49.9 | 49.9 | 100 | | 80 | 120 |
| 0 | 49.9 | 48.9 | 98 | | 80 | 120 |
| 0 | 50.2 | 50.7 | 101 | | 80 | 120 |
| 0 | 50.2 | 50.2 | 100 | | 82 | 114 |

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| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 156-59-2 | cis-1,2-Dichloroethene | 33.4 | TRG | Yes | Y | |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 17060-07- | 1,2-Dichloroethane-D4 | 48.9 | SUR | Yes | Y | |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 1868-53-7 | Dibromofluoromethane | 48 | SUR | Yes | Y | |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 2037-26-5 | Toluene-D8 | 49.6 | SUR | Yes | Y | |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 460-00-4 | 4-Bromofluorobenzene | 50.9 | SUR | Yes | Y | |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 75-00-3 | Chloroethane | 3.6 | TRG | Yes | Y | |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 75-01-4 | Vinyl chloride | 35.4 | TRG | Yes | Y | |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32 | INITIAL | 1 | JD52507-19 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 1.6 | 2 | 2 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0.73 | 1 | 1 | ug/l | ug/l | | DUSR | |
| | | Y | 0.52 | 1 | 1 | ug/l | ug/l | | DUSR | |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 49.9 | 48.9 | 98 | | 80 | 120 |
| 0 | 50 | 48 | 96 | | 80 | 120 |
| 0 | 50.1 | 49.6 | 99 | | 80 | 120 |
| 0 | 49.9 | 50.9 | 102 | | 82 | 114 |

/ outside of control limits high, sample was ND.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 17060-07- | 1,2-Dichloroethane-D4 | 46.8 | SUR | Yes | Y | |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 1868-53-7 | Dibromofluoromethane | 49.7 | SUR | Yes | Y | |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 2037-26-5 | Toluene-D8 | 51.2 | SUR | Yes | Y | |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 460-00-4 | 4-Bromofluorobenzene | 46.1 | SUR | Yes | Y | |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 67-64-1 | Acetone | 6.5 | TRG | Yes | Y | J |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03 | INITIAL | 1 | JD52507-4 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:39 | DILUTION1 | 50 | JD52507-3 | 156-59-2 | cis-1,2-Dichloroethene | 2420 | TRG | Yes | Y | |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:39 | DILUTION1 | 50 | JD52507-3 | 17060-07- | 1,2-Dichloroethane-D4 | 2380 | SUR | No | Y | |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:39 | DILUTION1 | 50 | JD52507-3 | 1868-53-7 | Dibromofluoromethane | 2490 | SUR | No | Y | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| J | J | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 25 | 50 | 50 | ug/l | ug/l | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 49.8 | 46.8 | 94 | | 80 | 120 |
| 0 | 50.2 | 49.7 | 99 | | 80 | 120 |
| 0 | 50.2 | 51.2 | 102 | | 80 | 120 |
| 0 | 50.1 | 46.1 | 92 | | 82 | 114 |

/ outside of control limits high, sample was ND.

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 2500 | 2380 | 95 | | 80 | 120 |
| 0 | 2490 | 2490 | 100 | | 80 | 120 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:39 | DILUTION1 | 50 | JD52507-3 | 2037-26-5 | Toluene-D8 | 2530 | SUR | No | Y | |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:39 | DILUTION1 | 50 | JD52507-3 | 460-00-4 | 4-Bromofluorobenzene | 2300 | SUR | No | Y | |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:39 | DILUTION1 | 50 | JD52507-3 | 75-01-4 | Vinyl chloride | 4250 | TRG | Yes | Y | |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 156-60-5 | trans-1,2-Dichloroethene | 101 | TRG | Yes | Y | |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 17060-07- | 1,2-Dichloroethane-D4 | 431 | SUR | Yes | Y | |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 1868-53-7 | Dibromofluoromethane | 526 | SUR | Yes | Y | |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 2037-26-5 | Toluene-D8 | 490 | SUR | Yes | Y | |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 460-00-4 | 4-Bromofluorobenzene | 558 | SUR | Yes | Y | |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 79-01-6 | Trichloroethene | 33 | TRG | Yes | Y | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 26 | 50 | 50 | ug/l | ug/l | | DUSR | |
| U | U | Y | 6.0 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 4.9 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 4.7 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 4.3 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.1 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 4.8 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 6.0 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 19 | 50 | 50 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 6.0 | 50 | 50 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 4.9 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.6 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 7.8 | 50 | 50 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.0 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.6 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.6 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.9 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| | | Y | 5.4 | 10 | 10 | ug/l | ug/l | | DUSR | |
| U | U | Y | 5.1 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| U | U | Y | 5.4 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.5 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 20 | 50 | 50 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 31 | 100 | 100 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| U | U | Y | 5.0 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 4.3 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.4 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 16 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 7.6 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 7.3 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 10 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 4.6 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 6.3 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 4.5 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.7 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.9 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 4.0 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.6 | 20 | 20 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.8 | 50 | 50 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 5.1 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 27 | 100 | 100 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| U | U | Y | 5.3 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| | | Y | 5.3 | 10 | 10 | ug/l | ug/l | | DUSR | |

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|---|---|---|---|---|---|---|
| 0 | 2500 | 2530 | 101 | | 80 | 120 |
| 0 | 2500 | 2300 | 92 | | 82 | 114 |

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|---|---|---|---|---|---|---|
| 0 | 502 | 431 | 86 | | 80 | 120 |
| 0 | 501 | 526 | 105 | | 80 | 120 |
| 0 | 500 | 490 | 98 | | 80 | 120 |
| 0 | 498 | 558 | 112 | | 82 | 114 |

/ outside of control limits high, sample was ND.

/ outside of control limits high, sample was ND.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11 | INITIAL | 10 | JD52507-3 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 17060-07- | 1,2-Dichloroethane-D4 | 469 | SUR | Yes | Y | |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 1868-53-7 | Dibromofluoromethane | 509 | SUR | Yes | Y | |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 2037-26-5 | Toluene-D8 | 508 | SUR | Yes | Y | |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 460-00-4 | 4-Bromofluorobenzene | 462 | SUR | Yes | Y | |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:15 | DILUTION1 | 100 | JD52507-12 | 156-59-2 | cis-1,2-Dichloroethene | 3150 | TRG | Yes | Y | |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 8.0 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 6.5 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.3 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.3 | 20 | 20 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 6.5 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.4 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 6.5 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.3 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.9 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.0 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.3 | 20 | 20 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 4.8 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.3 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 6.0 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.4 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 27 | 100 | 100 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 20 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 19 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 31 | 100 | 100 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 4.3 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| U | U | Y | 4.5 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 6.3 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 16 | 20 | 20 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 4.6 | 20 | 20 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.5 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.6 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 7.3 | 10 | 10 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 5.0 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 7.6 | 10 | 10 | ug/l | ug/l | DUSR | ND, Associated CCV |
| | | Y | 51 | 100 | 100 | ug/l | ug/l | DUSR | |
| U | U | Y | 4.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 7.8 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.6 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.6 | 20 | 20 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 6.0 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.8 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 6.5 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 8.0 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 6.0 | 50 | 50 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 10 | 20 | 20 | ug/l | ug/l | DUSR | ND |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0 | 498 | 469 | 94 | | | 80 | 120 |
| 0 | 499 | 509 | 102 | | | 80 | 120 |
| 0 | 498 | 508 | 102 | | | 80 | 120 |
| 0 | 502 | 462 | 92 | | | 82 | 114 |

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

/ outside of control limits low.  A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 156-60-5 | trans-1,2-Dichloroethene | 17.1 | TRG | Yes | Y | |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 79-01-6 | Trichloroethene | 23 | TRG | Yes | Y | |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 75-01-4 | Vinyl chloride | 1120 | TRG | Yes | Y | |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27 | INITIAL | 10 | JD52507-12 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:15 | DILUTION1 | 100 | JD52507-12 | 17060-07- | 1,2-Dichloroethane-D4 | 4150 | SUR | No | Y | |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:15 | DILUTION1 | 100 | JD52507-12 | 1868-53-7 | Dibromofluoromethane | 5530 | SUR | No | Y | |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:15 | DILUTION1 | 100 | JD52507-12 | 2037-26-5 | Toluene-D8 | 4610 | SUR | No | Y | |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:15 | DILUTION1 | 100 | JD52507-12 | 460-00-4 | 4-Bromofluorobenzene | 5550 | SUR | No | Y | |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 127-18-4 | Tetrachloroethene | 0.81 | TRG | Yes | Y | J |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 156-60-5 | trans-1,2-Dichloroethene | 11.7 | TRG | Yes | Y | |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 17060-07- | 1,2-Dichloroethane-D4 | 45.5 | SUR | Yes | Y | |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 1868-53-7 | Dibromofluoromethane | 48.9 | SUR | Yes | Y | |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 2037-26-5 | Toluene-D8 | 49.8 | SUR | Yes | Y | |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 460-00-4 | 4-Bromofluorobenzene | 46.3 | SUR | Yes | Y | |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 75-01-4 | Vinyl chloride | 27.7 | TRG | Yes | Y | |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55 | INITIAL | 1 | JD52507-31 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 4.9 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 5.6 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 4.9 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| | | Y | 5.4 | 10 | 10 | ug/l | ug/l | DUSR | |
| U | U | Y | 4.3 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| | | Y | 5.3 | 10 | 10 | ug/l | ug/l | DUSR | |
| UJ | UJ | Y | 4.0 | 20 | 20 | ug/l | ug/l | DUSR | ND, Associated CCV |
| | | Y | 5.2 | 10 | 10 | ug/l | ug/l | DUSR | |
| U | U | Y | 5.9 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| J | J | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| | | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

| | | | | | |
|---|---|---|---|---|---|
| 0 | 5000 | 4150 | 83 | 80 | 120 |
| 0 | 4980 | 5530 | 111 | 80 | 120 |
| 0 | 5010 | 4610 | 92 | 80 | 120 |
| 0 | 5000 | 5550 | 111 | 82 | 114 |

| | | | | | |
|---|---|---|---|---|---|
| 0 | 50 | 45.5 | 91 | 80 | 120 |
| 0 | 49.9 | 48.9 | 98 | 80 | 120 |
| 0 | 49.8 | 49.8 | 100 | 80 | 120 |
| 0 | 49.7 | 46.3 | 93 | 82 | 114 |

/ outside of control limits low.  A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

JD52507
JD52507
JD52507

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:5 | INITIAL | 1 | JD52507-31 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:5 | INITIAL | 1 | JD52507-31 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:5 | INITIAL | 1 | JD52507-31 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:5 | INITIAL | 1 | JD52507-31 | 75-35-4 | 1,1-Dichloroethene | 1.5 | TRG | Yes | Y | |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:5 | INITIAL | 1 | JD52507-31 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:5 | INITIAL | 1 | JD52507-31 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:5 | INITIAL | 1 | JD52507-31 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:5 | INITIAL | 1 | JD52507-31 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:5 | INITIAL | 1 | JD52507-31 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:5 | INITIAL | 1 | JD52507-31 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:5 | INITIAL | 1 | JD52507-31 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:5 | INITIAL | 1 | JD52507-31 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:5 | INITIAL | 1 | JD52507-31 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:5 | INITIAL | 1 | JD52507-31 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:5 | INITIAL | 1 | JD52507-31 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-5B-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:51 | DILUTION1 | 20 | JD52507-31 | 156-59-2 | cis-1,2-Dichloroethene | 795 | TRG | Yes | Y | |
| MW-5B-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:51 | DILUTION1 | 20 | JD52507-31 | 17060-07- | 1,2-Dichloroethane-D4 | 981 | SUR | No | Y | |
| MW-5B-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:51 | DILUTION1 | 20 | JD52507-31 | 1868-53-7 | Dibromofluoromethane | 1050 | SUR | No | Y | |
| MW-5B-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:51 | DILUTION1 | 20 | JD52507-31 | 2037-26-5 | Toluene-D8 | 1050 | SUR | No | Y | |
| MW-5B-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:51 | DILUTION1 | 20 | JD52507-31 | 460-00-4 | 4-Bromofluorobenzene | 956 | SUR | No | Y | |
| MW-5B-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:51 | DILUTION1 | 20 | JD52507-31 | 79-01-6 | Trichloroethene | 554 | TRG | Yes | Y | |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 156-59-2 | cis-1,2-Dichloroethene | 150 | TRG | Yes | Y | |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 156-60-5 | trans-1,2-Dichloroethene | 2.2 | TRG | Yes | Y | |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 17060-07- | 1,2-Dichloroethane-D4 | 49.9 | SUR | Yes | Y | |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 1868-53-7 | Dibromofluoromethane | 49.7 | SUR | Yes | Y | |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 2037-26-5 | Toluene-D8 | 51.1 | SUR | Yes | Y | |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 460-00-4 | 4-Bromofluorobenzene | 50.1 | SUR | Yes | Y | |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 67-64-1 | Acetone | | TRG | Yes | N | U |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | |
| UJ | UJ | Y | 0.40 | 2 | 2 | ug/l | ug/l | | DUSR | ND, Associated CCV |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 10 | 20 | 20 | ug/l | ug/l | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 11 | 20 | 20 | ug/l | ug/l | | DUSR | |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | |
| | | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | | DUSR | ND |

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

| | | | | | |
|---|---|---|---|---|---|
| 0 | 1000 | 981 | 98 | 80 | 120 |
| 0 | 1000 | 1050 | 105 | 80 | 120 |
| 0 | 1000 | 1050 | 105 | 80 | 120 |
| 0 | 996 | 956 | 96 | 82 | 114 |

| | | | | | |
|---|---|---|---|---|---|
| 0 | 49.9 | 49.9 | 100 | 80 | 120 |
| 0 | 50.2 | 49.7 | 99 | 80 | 120 |
| 0 | 50.1 | 51.1 | 102 | 80 | 120 |
| 0 | 50.1 | 50.1 | 100 | 82 | 114 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 67-66-3 | Chloroform | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 71-43-2 | Benzene | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 71-55-6 | 1,1,1-Trichloroethane | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 74-83-9 | Bromomethane | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 74-87-3 | Chloromethane | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 75-00-3 | Chloroethane | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 75-01-4 | Vinyl chloride | 41.5 | | TRG | Yes | Y | |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 75-09-2 | Methylene chloride | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 75-15-0 | Carbon disulfide | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 75-25-2 | Bromoform | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 75-27-4 | Bromodichloromethane | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 75-34-3 | 1,1-Dichloroethane | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 75-35-4 | 1,1-Dichloroethene | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 75-69-4 | Trichlorofluoromethane | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 75-71-8 | Dichlorodifluoromethane | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 76-13-1 | Freon 113 | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 78-87-5 | 1,2-Dichloropropane | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 78-93-3 | 2-Butanone (MEK) | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 79-00-5 | 1,1,2-Trichloroethane | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 79-01-6 | Trichloroethene | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 79-20-9 | Methyl Acetate | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 95-50-1 | 1,2-Dichlorobenzene | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | | TRG | Yes | N | U |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11 | INITIAL | 1 | JD52507-21 | 98-82-8 | Isopropylbenzene | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 100-41-4 | Ethylbenzene | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 100-42-5 | Styrene | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 10061-01- | cis-1,3-Dichloropropene | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 10061-02- | trans-1,3-Dichloropropene | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 106-46-7 | 1,4-Dichlorobenzene | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 106-93-4 | 1,2-Dibromoethane | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 107-06-2 | 1,2-Dichloroethane | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 108-87-2 | Methylcyclohexane | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 108-88-3 | Toluene | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 108-90-7 | Chlorobenzene | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 110-82-7 | Cyclohexane | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 120-82-1 | 1,2,4-Trichlorobenzene | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 124-48-1 | Dibromochloromethane | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 127-18-4 | Tetrachloroethene | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 1330-20-7 | Xylene (total) | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 156-59-2 | cis-1,2-Dichloroethene | 1.7 | | TRG | Yes | Y | |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 156-60-5 | trans-1,2-Dichloroethene | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 1634-04-4 | Methyl Tert Butyl Ether | | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 17060-07- | 1,2-Dichloroethane-D4 | 49.6 | | SUR | Yes | Y | |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 1868-53-7 | Dibromofluoromethane | 49.2 | | SUR | Yes | Y | |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 2037-26-5 | Toluene-D8 | 49.9 | | SUR | Yes | Y | |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 460-00-4 | 4-Bromofluorobenzene | 49 | | SUR | Yes | Y | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 50.1 | 49.6 | 99 | | 80 | 120 |
| 0 | 50.2 | 49.2 | 98 | | 80 | 120 |
| 0 | 49.9 | 49.9 | 100 | | 80 | 120 |
| 0 | 50 | 49 | 98 | | 82 | 114 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 67-64-1 | Acetone | 4.5 | TRG | Yes | Y | J |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12 | INITIAL | 1 | JD52507-16 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| J | J | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 17060-07- | 1,2-Dichloroethane-D4 | 45.6 | SUR | Yes | Y | | |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 1868-53-7 | Dibromofluoromethane | 49.3 | SUR | Yes | Y | | |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 2037-26-5 | Toluene-D8 | 51.9 | SUR | Yes | Y | | |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 460-00-4 | 4-Bromofluorobenzene | 46.1 | SUR | Yes | Y | | |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 67-64-1 | Acetone | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 67-66-3 | Chloroform | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 71-43-2 | Benzene | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 74-83-9 | Bromomethane | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 74-87-3 | Chloromethane | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 75-00-3 | Chloroethane | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 75-09-2 | Methylene chloride | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 75-25-2 | Bromoform | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 76-13-1 | Freon 113 | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 79-01-6 | Trichloroethene | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | | U |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37 | INITIAL | 1 | JD52507-25 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 100-42-5 | Styrene | | TRG | Yes | N | | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 108-88-3 | Toluene | | TRG | Yes | N | | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 110-82-7 | Cyclohexane | | TRG | Yes | N | | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | | U |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 1.6 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 0.76 | 1 | 1 | ug/l | ug/l | | DUSR | ND, Associated CC\ |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | | DUSR | ND, Associated CC\ |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| UJ | UJ | Y | 0.40 | 2 | 2 | ug/l | ug/l | | DUSR | ND, Associated CC\ |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | | DUSR | ND |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 50.1 | 45.6 | 91 | | 80 | 120 |
| 0 | 49.8 | 49.3 | 99 | | 80 | 120 |
| 0 | 49.9 | 51.9 | 104 | | 80 | 120 |
| 0 | 50.1 | 46.1 | 92 | | 82 | 114 |

/ outside of control limits low.  A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 17060-07- | 1,2-Dichloroethane-D4 | 47.3 | SUR | Yes | Y | |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 1868-53-7 | Dibromofluoromethane | 49.5 | SUR | Yes | Y | |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 2037-26-5 | Toluene-D8 | 51.3 | SUR | Yes | Y | |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 460-00-4 | 4-Bromofluorobenzene | 45.7 | SUR | Yes | Y | |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26 | INITIAL | 1 | JD52507-5 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 100-42-5 | Styrene | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 108-88-3 | Toluene | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 49.8 | 47.3 | 95 | | 80 | 120 |
| 0 | 50 | 49.5 | 99 | | 80 | 120 |
| 0 | 49.8 | 51.3 | 103 | | 80 | 120 |
| 0 | 50.2 | 45.7 | 91 | | 82 | 114 |

/ outside of control limits high, sample was ND.

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

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| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 17060-07- | 1,2-Dichloroethane-D4 | 47.9 | SUR | Yes | Y | |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 1868-53-7 | Dibromofluoromethane | 49.6 | SUR | Yes | Y | |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 2037-26-5 | Toluene-D8 | 50.9 | SUR | Yes | Y | |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 460-00-4 | 4-Bromofluorobenzene | 46.8 | SUR | Yes | Y | |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 67-64-1 | Acetone | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 67-66-3 | Chloroform | 1.4 | TRG | Yes | Y | |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 71-43-2 | Benzene | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17 | INITIAL | 1 | JD52507-36 | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 100-41-4 | Ethylbenzene | 47.1 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 100-42-5 | Styrene | 52.9 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 10061-01- | cis-1,3-Dichloropropene | 49.9 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 10061-02- | trans-1,3-Dichloropropene | 53.8 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 106-46-7 | 1,4-Dichlorobenzene | 48.7 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 106-93-4 | 1,2-Dibromoethane | 48.4 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 107-06-2 | 1,2-Dichloroethane | 46.8 | SC | Yes | Y | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| | | Y | 0 | 0 | 0 | % | % | DUSR | |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| UJ | UJ | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| UJ | UJ | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND, Associated CCV |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 49.9 | 47.9 | 96 | | 80 | 120 |
| 0 | 50.1 | 49.6 | 99 | | 80 | 120 |
| 0 | 49.9 | 50.9 | 102 | | 80 | 120 |
| 0 | 49.8 | 46.8 | 94 | | 82 | 114 |

/ outside of control limits low.  A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

/ outside of control limits high, sample was ND.This compound in blank spike is outside in house QC limits bias high.

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 50 | 47.1 | 94 | | 78 | 116 |
| 0 | 50 | 52.9 | 106 | | 81 | 125 |
| 0 | 50 | 49.9 | 100 | | 83 | 123 |
| 0 | 50 | 53.8 | 108 | | 83 | 122 |
| 0 | 50 | 48.7 | 97 | | 80 | 114 |
| 0 | 50 | 48.4 | 97 | | 67 | 138 |
| 0 | 50 | 46.8 | 94 | | 73 | 117 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 108-10-1 | 4-Methyl-2-pentanone(MIE | 189 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 108-87-2 | Methylcyclohexane | 48.8 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 108-88-3 | Toluene | 47.8 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 108-90-7 | Chlorobenzene | 47.7 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 110-82-7 | Cyclohexane | 42.9 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 120-82-1 | 1,2,4-Trichlorobenzene | 55.4 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 124-48-1 | Dibromochloromethane | 48.4 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 127-18-4 | Tetrachloroethene | 50.4 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 1330-20-7 | Xylene (total) | 149 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 156-59-2 | cis-1,2-Dichloroethene | 48.5 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 156-60-5 | trans-1,2-Dichloroethene | 46.3 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 1634-04-4 | Methyl Tert Butyl Ether | 45.6 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 541-73-1 | 1,3-Dichlorobenzene | 51.4 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 56-23-5 | Carbon tetrachloride | 49.7 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 591-78-6 | 2-Hexanone | 187 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 67-64-1 | Acetone | 194 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 67-66-3 | Chloroform | 44.9 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 71-43-2 | Benzene | 46.6 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 71-55-6 | 1,1,1-Trichloroethane | 47.8 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 74-83-9 | Bromomethane | 44.5 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 74-87-3 | Chloromethane | 38.8 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 75-00-3 | Chloroethane | 39.8 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 75-01-4 | Vinyl chloride | 40.6 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 75-09-2 | Methylene chloride | 43.1 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 75-15-0 | Carbon disulfide | 41 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 75-25-2 | Bromoform | 50.7 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 75-27-4 | Bromodichloromethane | 47.3 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 75-34-3 | 1,1-Dichloroethane | 45.4 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 75-35-4 | 1,1-Dichloroethene | 43.9 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 75-69-4 | Trichlorofluoromethane | 45.4 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 75-71-8 | Dichlorodifluoromethane | 38.7 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 76-13-1 | Freon 113 | 45.2 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 78-87-5 | 1,2-Dichloropropane | 46.4 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 78-93-3 | 2-Butanone (MEK) | 190 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 79-00-5 | 1,1,2-Trichloroethane | 47.2 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 79-01-6 | Trichloroethene | 49.7 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 79-20-9 | Methyl Acetate | 43.2 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 79-34-5 | 1,1,2,2-Tetrachloroethane | 45.4 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 95-50-1 | 1,2-Dichlorobenzene | 51.4 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 96-12-8 | 1,2-Dibromo-3-chloroprop | 52 | SC | Yes | Y | |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32 | INITIAL | 1 | V1A9698-BS | 98-82-8 | Isopropylbenzene | 50.6 | SC | Yes | Y | |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:28 | INITIAL | 1 | V1A9698-MB | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:28 | INITIAL | 1 | V1A9698-MB | 100-42-5 | Styrene | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:28 | INITIAL | 1 | V1A9698-MB | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:28 | INITIAL | 1 | V1A9698-MB | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:28 | INITIAL | 1 | V1A9698-MB | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:28 | INITIAL | 1 | V1A9698-MB | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:28 | INITIAL | 1 | V1A9698-MB | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Y | 1.9 | 5 | 5 ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 0.60 | 5 | 5 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.49 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.78 | 5 | 5 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.50 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.59 | 1 | 1 ug/l | ug/l | DUSR | 150 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.55 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 2.0 | 5 | 5 ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 3.1 | 10 | 10 ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 0.50 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.43 | 0.5 | 0.5 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 1.6 | 2 | 2 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.76 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.73 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.52 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 1.0 | 2 | 2 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.46 | 2 | 2 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.63 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.45 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.57 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.59 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.40 | 2 | 2 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.56 | 2 | 2 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.58 | 5 | 5 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 2.7 | 10 | 10 ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.80 | 5 | 5 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.65 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.53 | 2 | 2 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.65 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| U | U | Y | 0.60 | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 ug/l | ug/l | DUSR | ND |

| | | | | | |
|---|---|---|---|---|---|
| 0 | 200 | 189 | 95 | 73 | 134 |
| 0 | 50 | 48.8 | 98 | 71 | 123 |
| 0 | 50 | 47.8 | 96 | 79 | 116 |
| 0 | 50 | 47.7 | 95 | 80 | 115 |
| 0 | 50 | 42.9 | 86 | 66 | 129 |
| 0 | 50 | 55.4 | 111 | 68 | 135 |
| 0 | 50 | 48.4 | 97 | 81 | 123 |
| 0 | 50 | 50.4 | 101 | 73 | 119 |
| 0 | 150 | 149 | 99 | 80 | 119 |
| 0 | 50 | 48.5 | 97 | 80 | 120 |
| 0 | 50 | 46.3 | 93 | 77 | 121 |
| 0 | 50 | 45.6 | 91 | 76 | 123 |
| 0 | 50 | 51.4 | 103 | 81 | 115 |
| 0 | 50 | 49.7 | 99 | 75 | 127 |
| 0 | 200 | 187 | 94 | 66 | 136 |
| 0 | 200 | 194 | 97 | 27 | 175 |
| 0 | 50 | 44.9 | 90 | 75 | 116 |
| 0 | 50 | 46.6 | 93 | 80 | 115 |
| 0 | 50 | 47.8 | 96 | 76 | 124 |
| 0 | 50 | 44.5 | 89 | 40 | 162 |
| 0 | 50 | 38.8 | 78 | 41 | 153 |
| 0 | 50 | 39.8 | 80 | 56 | 144 |
| 0 | 50 | 40.6 | 81 | 52 | 146 |
| 0 | 50 | 43.1 | 86 | 73 | 123 |
| 0 | 50 | 41 | 82 | 64 | 130 |
| 0 | 50 | 50.7 | 101 | 77 | 135 |
| 0 | 50 | 47.3 | 95 | 82 | 119 |
| 0 | 50 | 45.4 | 91 | 75 | 125 |
| 0 | 50 | 43.9 | 88 | 70 | 124 |
| 0 | 50 | 45.4 | 91 | 67 | 134 |
| 0 | 50 | 38.7 | 77 | 43 | 152 |
| 0 | 50 | 45.2 | 90 | 68 | 134 |
| 0 | 50 | 46.4 | 93 | 79 | 121 |
| 0 | 200 | 190 | 95 | 61 | 150 |
| 0 | 50 | 47.2 | 94 | 83 | 117 |
| 0 | 50 | 49.7 | 99 | 80 | 118 |
| 0 | 50 | 43.2 | 86 | 60 | 143 |
| 0 | 50 | 45.4 | 91 | 73 | 126 |
| 0 | 50 | 51.4 | 103 | 81 | 117 |
| 0 | 50 | 52 | 104 | 69 | 134 |
| 0 | 50 | 50.6 | 101 | 78 | 121 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 108-88-3 | Toluene | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 67-64-1 | Acetone | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 71-43-2 | Benzene | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:2E | INITIAL | 1 | V1A9698-MB | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3E | INITIAL | 1 | V1A9705-BS | 100-41-4 | Ethylbenzene | 47.2 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3E | INITIAL | 1 | V1A9705-BS | 100-42-5 | Styrene | 53.6 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3E | INITIAL | 1 | V1A9705-BS | 10061-01- | cis-1,3-Dichloropropene | 52.4 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3E | INITIAL | 1 | V1A9705-BS | 10061-02- | trans-1,3-Dichloropropene | 56.1 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3E | INITIAL | 1 | V1A9705-BS | 106-46-7 | 1,4-Dichlorobenzene | 47.6 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3E | INITIAL | 1 | V1A9705-BS | 106-93-4 | 1,2-Dibromoethane | 50.4 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3E | INITIAL | 1 | V1A9705-BS | 107-06-2 | 1,2-Dichloroethane | 48.4 | SC | Yes | Y | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 50 | 47.2 | 94 | | 78 | 116 |
| 0 | 50 | 53.6 | 107 | | 81 | 125 |
| 0 | 50 | 52.4 | 105 | | 83 | 123 |
| 0 | 50 | 56.1 | 112 | | 83 | 122 |
| 0 | 50 | 47.6 | 95 | | 80 | 114 |
| 0 | 50 | 50.4 | 101 | | 67 | 138 |
| 0 | 50 | 48.4 | 97 | | 73 | 117 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 108-10-1 | 4-Methyl-2-pentanone(MIE | 201 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 108-87-2 | Methylcyclohexane | 42.8 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 108-88-3 | Toluene | 50.3 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 108-90-7 | Chlorobenzene | 49.1 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 110-82-7 | Cyclohexane | 48.3 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 120-82-1 | 1,2,4-Trichlorobenzene | 50.9 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 124-48-1 | Dibromochloromethane | 49.6 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 127-18-4 | Tetrachloroethene | 49.6 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 1330-20-7 | Xylene (total) | 149 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 156-59-2 | cis-1,2-Dichloroethene | 50.6 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 156-60-5 | trans-1,2-Dichloroethene | 48.7 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 1634-04-4 | Methyl Tert Butyl Ether | 48.1 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 541-73-1 | 1,3-Dichlorobenzene | 51.8 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 56-23-5 | Carbon tetrachloride | 51.4 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 591-78-6 | 2-Hexanone | 201 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 67-64-1 | Acetone | 190 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 67-66-3 | Chloroform | 47.7 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 71-43-2 | Benzene | 49 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 71-55-6 | 1,1,1-Trichloroethane | 50.1 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 74-83-9 | Bromomethane | 44.8 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 74-87-3 | Chloromethane | 44.1 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 75-00-3 | Chloroethane | 46.1 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 75-01-4 | Vinyl chloride | 45 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 75-09-2 | Methylene chloride | 45.2 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 75-15-0 | Carbon disulfide | 38.5 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 75-25-2 | Bromoform | 51.6 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 75-27-4 | Bromodichloromethane | 49.5 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 75-34-3 | 1,1-Dichloroethane | 48.4 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 75-35-4 | 1,1-Dichloroethene | 43.7 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 75-69-4 | Trichlorofluoromethane | 48.7 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 75-71-8 | Dichlorodifluoromethane | 39.8 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 76-13-1 | Freon 113 | 45.5 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 78-87-5 | 1,2-Dichloropropane | 48.5 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 78-93-3 | 2-Butanone (MEK) | 196 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 79-00-5 | 1,1,2-Trichloroethane | 49.7 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 79-01-6 | Trichloroethene | 50.5 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 79-20-9 | Methyl Acetate | 46.5 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 79-34-5 | 1,1,2,2-Tetrachloroethane | 49.6 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 95-50-1 | 1,2-Dichlorobenzene | 51.6 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 96-12-8 | 1,2-Dibromo-3-chloroprop | 52.3 | SC | Yes | Y | |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:3€ | INITIAL | 1 | V1A9705-BS | 98-82-8 | Isopropylbenzene | 47.6 | SC | Yes | Y | |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:2€ | INITIAL | 1 | V1A9705-MB | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:2€ | INITIAL | 1 | V1A9705-MB | 100-42-5 | Styrene | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:2€ | INITIAL | 1 | V1A9705-MB | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:2€ | INITIAL | 1 | V1A9705-MB | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:2€ | INITIAL | 1 | V1A9705-MB | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:2€ | INITIAL | 1 | V1A9705-MB | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:2€ | INITIAL | 1 | V1A9705-MB | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Y | 1.9 | 5 | 5 ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 0.60 | 5 | 5 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.49 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.78 | 5 | 5 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.50 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.59 | 1 | 1 ug/l | ug/l | DUSR | 150 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.55 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 2.0 | 5 | 5 ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 3.1 | 10 | 10 ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 0.50 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.43 | 0.5 | 0.5 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 1.6 | 2 | 2 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.76 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.73 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.52 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 1.0 | 2 | 2 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.46 | 2 | 2 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.63 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.45 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.57 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.59 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.40 | 2 | 2 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.56 | 2 | 2 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.58 | 5 | 5 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 2.7 | 10 | 10 ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.80 | 5 | 5 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.65 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.53 | 2 | 2 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.65 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| U | U | Y | 0.60 | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 ug/l | ug/l | DUSR | ND |

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|---|---|---|---|---|---|
| 0 | 200 | 201 | 101 | 73 | 134 |
| 0 | 50 | 42.8 | 86 | 71 | 123 |
| 0 | 50 | 50.3 | 101 | 79 | 116 |
| 0 | 50 | 49.1 | 98 | 80 | 115 |
| 0 | 50 | 48.3 | 97 | 66 | 129 |
| 0 | 50 | 50.9 | 102 | 68 | 135 |
| 0 | 50 | 49.6 | 99 | 81 | 123 |
| 0 | 50 | 49.6 | 99 | 73 | 119 |
| 0 | 150 | 149 | 99 | 80 | 119 |
| 0 | 50 | 50.6 | 101 | 80 | 120 |
| 0 | 50 | 48.7 | 97 | 77 | 121 |
| 0 | 50 | 48.1 | 96 | 76 | 123 |
| 0 | 50 | 51.8 | 104 | 81 | 115 |
| 0 | 50 | 51.4 | 103 | 75 | 127 |
| 0 | 200 | 201 | 101 | 66 | 136 |
| 0 | 200 | 190 | 95 | 27 | 175 |
| 0 | 50 | 47.7 | 95 | 75 | 116 |
| 0 | 50 | 49 | 98 | 80 | 115 |
| 0 | 50 | 50.1 | 100 | 76 | 124 |
| 0 | 50 | 44.8 | 90 | 40 | 162 |
| 0 | 50 | 44.1 | 88 | 41 | 153 |
| 0 | 50 | 46.1 | 92 | 56 | 144 |
| 0 | 50 | 45 | 90 | 52 | 146 |
| 0 | 50 | 45.2 | 90 | 73 | 123 |
| 0 | 50 | 38.5 | 77 | 64 | 130 |
| 0 | 50 | 51.6 | 103 | 77 | 135 |
| 0 | 50 | 49.5 | 99 | 82 | 119 |
| 0 | 50 | 48.4 | 97 | 75 | 125 |
| 0 | 50 | 43.7 | 87 | 70 | 124 |
| 0 | 50 | 48.7 | 97 | 67 | 134 |
| 0 | 50 | 39.8 | 80 | 43 | 152 |
| 0 | 50 | 45.5 | 91 | 68 | 134 |
| 0 | 50 | 48.5 | 97 | 79 | 121 |
| 0 | 200 | 196 | 98 | 61 | 150 |
| 0 | 50 | 49.7 | 99 | 83 | 117 |
| 0 | 50 | 50.5 | 101 | 80 | 118 |
| 0 | 50 | 46.5 | 93 | 60 | 143 |
| 0 | 50 | 49.6 | 99 | 73 | 126 |
| 0 | 50 | 51.6 | 103 | 81 | 117 |
| 0 | 50 | 52.3 | 105 | 69 | 134 |
| 0 | 50 | 47.6 | 95 | 78 | 121 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 108-88-3 | Toluene | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 67-64-1 | Acetone | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 71-43-2 | Benzene | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29 | INITIAL | 1 | V1A9705-MB | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 100-41-4 | Ethylbenzene | 44.9 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 100-42-5 | Styrene | 45.6 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 10061-01- | cis-1,3-Dichloropropene | 50.6 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 10061-02- | trans-1,3-Dichloropropene | 51.7 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 106-46-7 | 1,4-Dichlorobenzene | 46 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 106-93-4 | 1,2-Dibromoethane | 49.1 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 107-06-2 | 1,2-Dichloroethane | 43.1 | SC | Yes | Y | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |

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|---|---|---|---|---|---|---|
| 0 | 50 | 44.9 | 90 | | 78 | 116 |
| 0 | 50 | 45.6 | 91 | | 81 | 125 |
| 0 | 50 | 50.6 | 101 | | 83 | 123 |
| 0 | 50 | 51.7 | 103 | | 83 | 122 |
| 0 | 50 | 46 | 92 | | 80 | 114 |
| 0 | 50 | 49.1 | 98 | | 67 | 138 |
| 0 | 50 | 43.1 | 86 | | 73 | 117 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 108-10-1 | 4-Methyl-2-pentanone(MIE | 202 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 108-87-2 | Methylcyclohexane | 48.2 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 108-88-3 | Toluene | 45.9 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 108-90-7 | Chlorobenzene | 45.4 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 110-82-7 | Cyclohexane | 39.5 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 120-82-1 | 1,2,4-Trichlorobenzene | 48.8 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 124-48-1 | Dibromochloromethane | 50.5 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 127-18-4 | Tetrachloroethene | 47.7 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 1330-20-7 | Xylene (total) | 135 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 156-59-2 | cis-1,2-Dichloroethene | 43.6 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 156-60-5 | trans-1,2-Dichloroethene | 44.5 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 1634-04-4 | Methyl Tert Butyl Ether | 45.2 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 541-73-1 | 1,3-Dichlorobenzene | 46.3 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 56-23-5 | Carbon tetrachloride | 45.5 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 591-78-6 | 2-Hexanone | 198 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 67-64-1 | Acetone | 176 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 67-66-3 | Chloroform | 41.9 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 71-43-2 | Benzene | 43.9 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 71-55-6 | 1,1,1-Trichloroethane | 43.8 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 74-83-9 | Bromomethane | 50.1 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 74-87-3 | Chloromethane | 39.1 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 75-00-3 | Chloroethane | 35.5 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 75-01-4 | Vinyl chloride | 39.4 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 75-09-2 | Methylene chloride | 43.7 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 75-15-0 | Carbon disulfide | 47.1 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 75-25-2 | Bromoform | 54.4 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 75-27-4 | Bromodichloromethane | 47.8 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 75-34-3 | 1,1-Dichloroethane | 43.5 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 75-35-4 | 1,1-Dichloroethene | 46 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 75-69-4 | Trichlorofluoromethane | 42.3 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 75-71-8 | Dichlorodifluoromethane | 40.3 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 76-13-1 | Freon 113 | 45.6 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 78-87-5 | 1,2-Dichloropropane | 46.7 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 78-93-3 | 2-Butanone (MEK) | 192 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 79-00-5 | 1,1,2-Trichloroethane | 47.1 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 79-01-6 | Trichloroethene | 45.7 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 79-20-9 | Methyl Acetate | 45.3 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 79-34-5 | 1,1,2,2-Tetrachloroethane | 51.4 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 95-50-1 | 1,2-Dichlorobenzene | 47.3 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 96-12-8 | 1,2-Dibromo-3-chloroprop | 52.6 | SC | Yes | Y | |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34 | INITIAL | 1 | V1X8637-BS | 98-82-8 | Isopropylbenzene | 46.3 | SC | Yes | Y | |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:20 | INITIAL | 1 | V1X8637-MB | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:20 | INITIAL | 1 | V1X8637-MB | 100-42-5 | Styrene | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:20 | INITIAL | 1 | V1X8637-MB | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:20 | INITIAL | 1 | V1X8637-MB | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:20 | INITIAL | 1 | V1X8637-MB | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:20 | INITIAL | 1 | V1X8637-MB | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:20 | INITIAL | 1 | V1X8637-MB | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Y | 1.9 | 5 | 5 ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 0.60 | 5 | 5 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.49 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.78 | 5 | 5 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.50 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.59 | 1 | 1 ug/l | ug/l | DUSR | 150 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.55 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 2.0 | 5 | 5 ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 3.1 | 10 | 10 ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 0.50 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.43 | 0.5 | 0.5 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 1.6 | 2 | 2 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.76 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.73 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.52 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 1.0 | 2 | 2 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.46 | 2 | 2 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.63 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.45 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.57 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.59 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.40 | 2 | 2 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.56 | 2 | 2 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.58 | 5 | 5 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 2.7 | 10 | 10 ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.80 | 5 | 5 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.65 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.53 | 2 | 2 ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.65 | 1 | 1 ug/l | ug/l | DUSR | 50 ug/l added |
| U | U | Y | 0.60 | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 ug/l | ug/l | DUSR | ND |

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|---|---|---|---|---|---|---|
| 0 | 200 | 202 | 101 | | 73 | 134 |
| 0 | 50 | 48.2 | 96 | | 71 | 123 |
| 0 | 50 | 45.9 | 92 | | 79 | 116 |
| 0 | 50 | 45.4 | 91 | | 80 | 115 |
| 0 | 50 | 39.5 | 79 | | 66 | 129 |
| 0 | 50 | 48.8 | 98 | | 68 | 135 |
| 0 | 50 | 50.5 | 101 | | 81 | 123 |
| 0 | 50 | 47.7 | 95 | | 73 | 119 |
| 0 | 150 | 135 | 90 | | 80 | 119 |
| 0 | 50 | 43.6 | 87 | | 80 | 120 |
| 0 | 50 | 44.5 | 89 | | 77 | 121 |
| 0 | 50 | 45.2 | 90 | | 76 | 123 |
| 0 | 50 | 46.3 | 93 | | 81 | 115 |
| 0 | 50 | 45.5 | 91 | | 75 | 127 |
| 0 | 200 | 198 | 99 | | 66 | 136 |
| 0 | 200 | 176 | 88 | | 27 | 175 |
| 0 | 50 | 41.9 | 84 | | 75 | 116 |
| 0 | 50 | 43.9 | 88 | | 80 | 115 |
| 0 | 50 | 43.8 | 88 | | 76 | 124 |
| 0 | 50 | 50.1 | 100 | | 40 | 162 |
| 0 | 50 | 39.1 | 78 | | 41 | 153 |
| 0 | 50 | 35.5 | 71 | | 56 | 144 |
| 0 | 50 | 39.4 | 79 | | 52 | 146 |
| 0 | 50 | 43.7 | 87 | | 73 | 123 |
| 0 | 50 | 47.1 | 94 | | 64 | 130 |
| 0 | 50 | 54.4 | 109 | | 77 | 135 |
| 0 | 50 | 47.8 | 96 | | 82 | 119 |
| 0 | 50 | 43.5 | 87 | | 75 | 125 |
| 0 | 50 | 46 | 92 | | 70 | 124 |
| 0 | 50 | 42.3 | 85 | | 67 | 134 |
| 0 | 50 | 40.3 | 81 | | 43 | 152 |
| 0 | 50 | 45.6 | 91 | | 68 | 134 |
| 0 | 50 | 46.7 | 93 | | 79 | 121 |
| 0 | 200 | 192 | 96 | | 61 | 150 |
| 0 | 50 | 47.1 | 94 | | 83 | 117 |
| 0 | 50 | 45.7 | 91 | | 80 | 118 |
| 0 | 50 | 45.3 | 91 | | 60 | 143 |
| 0 | 50 | 51.4 | 103 | | 73 | 126 |
| 0 | 50 | 47.3 | 95 | | 81 | 117 |
| 0 | 50 | 52.6 | 105 | | 69 | 134 |
| 0 | 50 | 46.3 | 93 | | 78 | 121 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 108-88-3 | Toluene | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 67-64-1 | Acetone | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 71-43-2 | Benzene | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:2( | INITIAL | 1 | V1X8637-MB | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 100-41-4 | Ethylbenzene | 45.6 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 100-42-5 | Styrene | 44.1 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 10061-01- | cis-1,3-Dichloropropene | 48 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 10061-02- | trans-1,3-Dichloropropene | 46.6 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 106-46-7 | 1,4-Dichlorobenzene | 42.6 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 106-93-4 | 1,2-Dibromoethane | 44.3 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 107-06-2 | 1,2-Dichloroethane | 42.6 | SC | Yes | Y | |

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|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |

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|---|---|---|---|---|---|
| 0 | 50 | 45.6 | 91 | 78 | 116 |
| 0 | 50 | 44.1 | 88 | 81 | 125 |
| 0 | 50 | 48 | 96 | 83 | 123 |
| 0 | 50 | 46.6 | 93 | 83 | 122 |
| 0 | 50 | 42.6 | 85 | 80 | 114 |
| 0 | 50 | 44.3 | 89 | 67 | 138 |
| 0 | 50 | 42.6 | 85 | 73 | 117 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 108-10-1 | 4-Methyl-2-pentanone(MIE | 173 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 108-87-2 | Methylcyclohexane | 45.5 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 108-88-3 | Toluene | 47.6 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 108-90-7 | Chlorobenzene | 46.7 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 110-82-7 | Cyclohexane | 51.5 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 120-82-1 | 1,2,4-Trichlorobenzene | 45 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 124-48-1 | Dibromochloromethane | 43.2 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 127-18-4 | Tetrachloroethene | 45.9 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 1330-20-7 | Xylene (total) | 132 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 156-60-5 | trans-1,2-Dichloroethene | 51.4 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 1634-04-4 | Methyl Tert Butyl Ether | 50.3 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 541-73-1 | 1,3-Dichlorobenzene | 44.6 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 56-23-5 | Carbon tetrachloride | 47.3 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 591-78-6 | 2-Hexanone | 191 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 67-64-1 | Acetone | 275 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 67-66-3 | Chloroform | 47.5 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 71-43-2 | Benzene | 49.3 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 71-55-6 | 1,1,1-Trichloroethane | 49 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 74-83-9 | Bromomethane | 46.2 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 74-87-3 | Chloromethane | 41.2 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 75-00-3 | Chloroethane | 53.4 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 75-09-2 | Methylene chloride | 51.7 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 75-15-0 | Carbon disulfide | 56.8 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 75-25-2 | Bromoform | 43 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 75-27-4 | Bromodichloromethane | 43.6 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 75-34-3 | 1,1-Dichloroethane | 52.5 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 75-35-4 | 1,1-Dichloroethene | 52 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 75-69-4 | Trichlorofluoromethane | 45.9 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 75-71-8 | Dichlorodifluoromethane | 43.9 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 76-13-1 | Freon 113 | 51.4 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 78-87-5 | 1,2-Dichloropropane | 47.8 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 78-93-3 | 2-Butanone (MEK) | 244 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 79-00-5 | 1,1,2-Trichloroethane | 45 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 79-01-6 | Trichloroethene | 46.2 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 79-20-9 | Methyl Acetate | 47.4 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 79-34-5 | 1,1,2,2-Tetrachloroethane | 43.8 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 95-50-1 | 1,2-Dichlorobenzene | 44 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 96-12-8 | 1,2-Dibromo-3-chloroprop | 39.8 | SC | Yes | Y | |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19 | INITIAL | 1 | V2A9581-BS | 98-82-8 | Isopropylbenzene | 43.6 | SC | Yes | Y | |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 100-42-5 | Styrene | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | 150 ug/l added |
| | | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | ND |

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|---|---|---|---|---|---|---|
| 0 | 200 | 173 | 87 | | 73 | 134 |
| 0 | 50 | 45.5 | 91 | | 71 | 123 |
| 0 | 50 | 47.6 | 95 | | 79 | 116 |
| 0 | 50 | 46.7 | 93 | | 80 | 115 |
| 0 | 50 | 51.5 | 103 | | 66 | 129 |
| 0 | 50 | 45 | 90 | | 68 | 135 |
| 0 | 50 | 43.2 | 86 | | 81 | 123 |
| 0 | 50 | 45.9 | 92 | | 73 | 119 |
| 0 | 150 | 132 | 88 | | 80 | 119 |
| 0 | 50 | 51.4 | 103 | | 77 | 121 |
| 0 | 50 | 50.3 | 101 | | 76 | 123 |
| 0 | 50 | 44.6 | 89 | | 81 | 115 |
| 0 | 50 | 47.3 | 95 | | 75 | 127 |
| 0 | 200 | 191 | 96 | | 66 | 136 |
| 0 | 200 | 275 | 138 | | 27 | 175 |
| 0 | 50 | 47.5 | 95 | | 75 | 116 |
| 0 | 50 | 49.3 | 99 | | 80 | 115 |
| 0 | 50 | 49 | 98 | | 76 | 124 |
| 0 | 50 | 46.2 | 92 | | 40 | 162 |
| 0 | 50 | 41.2 | 82 | | 41 | 153 |
| 0 | 50 | 53.4 | 107 | | 56 | 144 |
| 0 | 50 | 51.7 | 103 | | 73 | 123 |
| 0 | 50 | 56.8 | 114 | | 64 | 130 |
| 0 | 50 | 43 | 86 | | 77 | 135 |
| 0 | 50 | 43.6 | 87 | | 82 | 119 |
| 0 | 50 | 52.5 | 105 | | 75 | 125 |
| 0 | 50 | 52 | 104 | | 70 | 124 |
| 0 | 50 | 45.9 | 92 | | 67 | 134 |
| 0 | 50 | 43.9 | 88 | | 43 | 152 |
| 0 | 50 | 51.4 | 103 | | 68 | 134 |
| 0 | 50 | 47.8 | 96 | | 79 | 121 |
| 0 | 200 | 244 | 122 | | 61 | 150 |
| 0 | 50 | 45 | 90 | | 83 | 117 |
| 0 | 50 | 46.2 | 92 | | 80 | 118 |
| 0 | 50 | 47.4 | 95 | | 60 | 143 |
| 0 | 50 | 43.8 | 88 | | 73 | 126 |
| 0 | 50 | 44 | 88 | | 81 | 117 |
| 0 | 50 | 39.8 | 80 | | 69 | 134 |
| 0 | 50 | 43.6 | 87 | | 78 | 121 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 108-88-3 | Toluene | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 67-64-1 | Acetone | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 71-43-2 | Benzene | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16 | INITIAL | 1 | V2A9581-MB | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| V2A9583-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 10:21 | INITIAL | 1 | V2A9583-BS | 156-59-2 | cis-1,2-Dichloroethene | 56.4 | SC | Yes | Y | |
| V2A9583-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:18 | INITIAL | 1 | V2A9583-MB | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 100-41-4 | Ethylbenzene | 47.7 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 100-42-5 | Styrene | 47.8 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 10061-01- | cis-1,3-Dichloropropene | 48.2 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 10061-02- | trans-1,3-Dichloropropene | 48.4 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 106-46-7 | 1,4-Dichlorobenzene | 44.2 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 106-93-4 | 1,2-Dibromoethane | 48 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 107-06-2 | 1,2-Dichloroethane | 45.9 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 108-10-1 | 4-Methyl-2-pentanone(MIE | 223 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 108-87-2 | Methylcyclohexane | 47.3 | SC | Yes | Y | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | 50 ug/l added |

| | | | | | |
|---|---|---|---|---|---|
| 0 | 50 | 56.4 | 113 | 80 | 120 |
| | | | | | |
| 0 | 50 | 47.7 | 95 | 78 | 116 |
| 0 | 50 | 47.8 | 96 | 81 | 125 |
| 0 | 50 | 48.2 | 96 | 83 | 123 |
| 0 | 50 | 48.4 | 97 | 83 | 122 |
| 0 | 50 | 44.2 | 88 | 80 | 114 |
| 0 | 50 | 48 | 96 | 67 | 138 |
| 0 | 50 | 45.9 | 92 | 73 | 117 |
| 0 | 200 | 223 | 112 | 73 | 134 |
| 0 | 50 | 47.3 | 95 | 71 | 123 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 108-88-3 | Toluene | 44.8 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 108-90-7 | Chlorobenzene | 45.5 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 110-82-7 | Cyclohexane | 46.7 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 120-82-1 | 1,2,4-Trichlorobenzene | 48.8 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 124-48-1 | Dibromochloromethane | 47.2 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 127-18-4 | Tetrachloroethene | 45.2 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 1330-20-7 | Xylene (total) | 141 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 156-59-2 | cis-1,2-Dichloroethene | 52 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 156-60-5 | trans-1,2-Dichloroethene | 49.9 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 1634-04-4 | Methyl Tert Butyl Ether | 51 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 541-73-1 | 1,3-Dichlorobenzene | 45.5 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 56-23-5 | Carbon tetrachloride | 48.3 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 591-78-6 | 2-Hexanone | 216 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 67-64-1 | Acetone | 215 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 67-66-3 | Chloroform | 46.3 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 71-43-2 | Benzene | 47.3 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 71-55-6 | 1,1,1-Trichloroethane | 47.5 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 74-83-9 | Bromomethane | 78.7 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 74-87-3 | Chloromethane | 47.9 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 75-00-3 | Chloroethane | 66.9 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 75-01-4 | Vinyl chloride | 54.1 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 75-09-2 | Methylene chloride | 46 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 75-15-0 | Carbon disulfide | 44.1 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 75-25-2 | Bromoform | 48.2 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 75-27-4 | Bromodichloromethane | 46.1 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 75-34-3 | 1,1-Dichloroethane | 50.9 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 75-35-4 | 1,1-Dichloroethene | 49.8 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 75-69-4 | Trichlorofluoromethane | 86.7 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 75-71-8 | Dichlorodifluoromethane | 48 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 76-13-1 | Freon 113 | 46.6 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 78-87-5 | 1,2-Dichloropropane | 51.1 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 78-93-3 | 2-Butanone (MEK) | 228 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 79-00-5 | 1,1,2-Trichloroethane | 49 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 79-01-6 | Trichloroethene | 46 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 79-20-9 | Methyl Acetate | 50.7 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 79-34-5 | 1,1,2,2-Tetrachloroethane | 47.3 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 95-50-1 | 1,2-Dichlorobenzene | 46.2 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 96-12-8 | 1,2-Dibromo-3-chloroprop | 49.8 | SC | Yes | Y | |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47 | INITIAL | 1 | V2V3773-BS | 98-82-8 | Isopropylbenzene | 46.4 | SC | Yes | Y | |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:33 | INITIAL | 1 | V2V3773-MB | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:33 | INITIAL | 1 | V2V3773-MB | 100-42-5 | Styrene | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:33 | INITIAL | 1 | V2V3773-MB | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:33 | INITIAL | 1 | V2V3773-MB | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:33 | INITIAL | 1 | V2V3773-MB | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:33 | INITIAL | 1 | V2V3773-MB | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:33 | INITIAL | 1 | V2V3773-MB | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:33 | INITIAL | 1 | V2V3773-MB | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:33 | INITIAL | 1 | V2V3773-MB | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Y | 0.49 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.78 | 5 | 5 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.50 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.59 | 1 | 1 ug/l | ug/l | | DUSR | 150 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.55 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 2.0 | 5 | 5 ug/l | ug/l | | DUSR | 200 ug/l added |
| | | Y | 3.1 | 10 | 10 ug/l | ug/l | | DUSR | 200 ug/l added |
| | | Y | 0.50 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.43 | 0.5 | 0.5 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 1.6 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.76 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.73 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.52 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 1.0 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.46 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.63 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.45 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.57 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.59 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.40 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.56 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.58 | 5 | 5 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 2.7 | 10 | 10 ug/l | ug/l | | DUSR | 200 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.80 | 5 | 5 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.65 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.53 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.65 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| U | U | Y | 0.60 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 ug/l | ug/l | | DUSR | ND |

| | | | | | |
|---|---|---|---|---|---|
| 0 | 50 | 44.8 | 90 | 79 | 116 |
| 0 | 50 | 45.5 | 91 | 80 | 115 |
| 0 | 50 | 46.7 | 93 | 66 | 129 |
| 0 | 50 | 48.8 | 98 | 68 | 135 |
| 0 | 50 | 47.2 | 94 | 81 | 123 |
| 0 | 50 | 45.2 | 90 | 73 | 119 |
| 0 | 150 | 141 | 94 | 80 | 119 |
| 0 | 50 | 52 | 104 | 80 | 120 |
| 0 | 50 | 49.9 | 100 | 77 | 121 |
| 0 | 50 | 51 | 102 | 76 | 123 |
| 0 | 50 | 45.5 | 91 | 81 | 115 |
| 0 | 50 | 48.3 | 97 | 75 | 127 |
| 0 | 200 | 216 | 108 | 66 | 136 |
| 0 | 200 | 215 | 108 | 27 | 175 |
| 0 | 50 | 46.3 | 93 | 75 | 116 |
| 0 | 50 | 47.3 | 95 | 80 | 115 |
| 0 | 50 | 47.5 | 95 | 76 | 124 |
| 0 | 50 | 78.7 | 157 | 40 | 162 |
| 0 | 50 | 47.9 | 96 | 41 | 153 |
| 0 | 50 | 66.9 | 134 | 56 | 144 |
| 0 | 50 | 54.1 | 108 | 52 | 146 |
| 0 | 50 | 46 | 92 | 73 | 123 |
| 0 | 50 | 44.1 | 88 | 64 | 130 |
| 0 | 50 | 48.2 | 96 | 77 | 135 |
| 0 | 50 | 46.1 | 92 | 82 | 119 |
| 0 | 50 | 50.9 | 102 | 75 | 125 |
| 0 | 50 | 49.8 | 100 | 70 | 124 |
| 0 | 50 | 86.7 | 173 | 67 | 134 |
| 0 | 50 | 48 | 96 | 43 | 152 |
| 0 | 50 | 46.6 | 93 | 68 | 134 |
| 0 | 50 | 51.1 | 102 | 79 | 121 |
| 0 | 200 | 228 | 114 | 61 | 150 |
| 0 | 50 | 49 | 98 | 83 | 117 |
| 0 | 50 | 46 | 92 | 80 | 118 |
| 0 | 50 | 50.7 | 101 | 60 | 143 |
| 0 | 50 | 47.3 | 95 | 73 | 126 |
| 0 | 50 | 46.2 | 92 | 81 | 117 |
| 0 | 50 | 49.8 | 100 | 69 | 134 |
| 0 | 50 | 46.4 | 93 | 78 | 121 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 108-88-3 | Toluene | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 67-64-1 | Acetone | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 71-43-2 | Benzene | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:3 | INITIAL | 1 | V2V3773-MB | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:2 | INITIAL | 1 | V2V3777-BS | 100-41-4 | Ethylbenzene | 50 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:2 | INITIAL | 1 | V2V3777-BS | 100-42-5 | Styrene | 49.3 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:2 | INITIAL | 1 | V2V3777-BS | 10061-01- | cis-1,3-Dichloropropene | 50.1 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:2 | INITIAL | 1 | V2V3777-BS | 10061-02- | trans-1,3-Dichloropropene | 50.3 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:2 | INITIAL | 1 | V2V3777-BS | 106-46-7 | 1,4-Dichlorobenzene | 46.2 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:2 | INITIAL | 1 | V2V3777-BS | 106-93-4 | 1,2-Dibromoethane | 49.6 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:2 | INITIAL | 1 | V2V3777-BS | 107-06-2 | 1,2-Dichloroethane | 47.6 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:2 | INITIAL | 1 | V2V3777-BS | 108-10-1 | 4-Methyl-2-pentanone(MIE | 231 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:2 | INITIAL | 1 | V2V3777-BS | 108-87-2 | Methylcyclohexane | 47.5 | SC | Yes | Y | |

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|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | 50 ug/l added |

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|---|---|---|---|---|---|
| 0 | 50 | 50 | 100 | 78 | 116 |
| 0 | 50 | 49.3 | 99 | 81 | 125 |
| 0 | 50 | 50.1 | 100 | 83 | 123 |
| 0 | 50 | 50.3 | 101 | 83 | 122 |
| 0 | 50 | 46.2 | 92 | 80 | 114 |
| 0 | 50 | 49.6 | 99 | 67 | 138 |
| 0 | 50 | 47.6 | 95 | 73 | 117 |
| 0 | 200 | 231 | 116 | 73 | 134 |
| 0 | 50 | 47.5 | 95 | 71 | 123 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 108-88-3 | Toluene | 46.9 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 108-90-7 | Chlorobenzene | 47.7 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 110-82-7 | Cyclohexane | 42.6 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 120-82-1 | 1,2,4-Trichlorobenzene | 50.5 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 124-48-1 | Dibromochloromethane | 49.1 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 127-18-4 | Tetrachloroethene | 47.7 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 1330-20-7 | Xylene (total) | 146 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 156-59-2 | cis-1,2-Dichloroethene | 53.7 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 156-60-5 | trans-1,2-Dichloroethene | 49.9 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 1634-04-4 | Methyl Tert Butyl Ether | 51.9 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 541-73-1 | 1,3-Dichlorobenzene | 47.2 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 56-23-5 | Carbon tetrachloride | 49.4 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 591-78-6 | 2-Hexanone | 229 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 67-64-1 | Acetone | 278 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 67-66-3 | Chloroform | 47.1 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 71-43-2 | Benzene | 48.6 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 71-55-6 | 1,1,1-Trichloroethane | 48.4 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 74-83-9 | Bromomethane | 63.1 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 74-87-3 | Chloromethane | 41.5 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 75-00-3 | Chloroethane | 91.6 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 75-01-4 | Vinyl chloride | 48.3 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 75-09-2 | Methylene chloride | 47 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 75-15-0 | Carbon disulfide | 43.1 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 75-25-2 | Bromoform | 49.3 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 75-27-4 | Bromodichloromethane | 48.1 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 75-34-3 | 1,1-Dichloroethane | 51.9 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 75-35-4 | 1,1-Dichloroethene | 50 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 75-69-4 | Trichlorofluoromethane | 81.7 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 75-71-8 | Dichlorodifluoromethane | 42.7 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 76-13-1 | Freon 113 | 47.1 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 78-87-5 | 1,2-Dichloropropane | 52.8 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 78-93-3 | 2-Butanone (MEK) | 243 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 79-00-5 | 1,1,2-Trichloroethane | 50.6 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 79-01-6 | Trichloroethene | 49.2 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 79-20-9 | Methyl Acetate | 52 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 79-34-5 | 1,1,2,2-Tetrachloroethane | 48.3 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 95-50-1 | 1,2-Dichlorobenzene | 47.2 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 96-12-8 | 1,2-Dibromo-3-chloroprop | 52.9 | SC | Yes | Y | |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25 | INITIAL | 1 | V2V3777-BS | 98-82-8 | Isopropylbenzene | 48.3 | SC | Yes | Y | |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 100-42-5 | Styrene | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Y | 0.49 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.78 | 5 | 5 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.50 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.59 | 1 | 1 ug/l | ug/l | | DUSR | 150 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.55 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 2.0 | 5 | 5 ug/l | ug/l | | DUSR | 200 ug/l added |
| | | Y | 3.1 | 10 | 10 ug/l | ug/l | | DUSR | 200 ug/l added |
| | | Y | 0.50 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.43 | 0.5 | 0.5 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 1.6 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.76 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.73 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.52 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 1.0 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.46 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.63 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.45 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.57 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.59 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.40 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.56 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.58 | 5 | 5 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 2.7 | 10 | 10 ug/l | ug/l | | DUSR | 200 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.80 | 5 | 5 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.65 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.53 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.65 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| U | U | Y | 0.60 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 ug/l | ug/l | | DUSR | ND |

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|---|---|---|---|---|---|
| 0 | 50 | 46.9 | 94 | 79 | 116 |
| 0 | 50 | 47.7 | 95 | 80 | 115 |
| 0 | 50 | 42.6 | 85 | 66 | 129 |
| 0 | 50 | 50.5 | 101 | 68 | 135 |
| 0 | 50 | 49.1 | 98 | 81 | 123 |
| 0 | 50 | 47.7 | 95 | 73 | 119 |
| 0 | 150 | 146 | 97 | 80 | 119 |
| 0 | 50 | 53.7 | 107 | 80 | 120 |
| 0 | 50 | 49.9 | 100 | 77 | 121 |
| 0 | 50 | 51.9 | 104 | 76 | 123 |
| 0 | 50 | 47.2 | 94 | 81 | 115 |
| 0 | 50 | 49.4 | 99 | 75 | 127 |
| 0 | 200 | 229 | 115 | 66 | 136 |
| 0 | 200 | 278 | 139 | 27 | 175 |
| 0 | 50 | 47.1 | 94 | 75 | 116 |
| 0 | 50 | 48.6 | 97 | 80 | 115 |
| 0 | 50 | 48.4 | 97 | 76 | 124 |
| 0 | 50 | 63.1 | 126 | 40 | 162 |
| 0 | 50 | 41.5 | 83 | 41 | 153 |
| 0 | 50 | 91.6 | 183 | 56 | 144 |
| 0 | 50 | 48.3 | 97 | 52 | 146 |
| 0 | 50 | 47 | 94 | 73 | 123 |
| 0 | 50 | 43.1 | 86 | 64 | 130 |
| 0 | 50 | 49.3 | 99 | 77 | 135 |
| 0 | 50 | 48.1 | 96 | 82 | 119 |
| 0 | 50 | 51.9 | 104 | 75 | 125 |
| 0 | 50 | 50 | 100 | 70 | 124 |
| 0 | 50 | 81.7 | 163 | 67 | 134 |
| 0 | 50 | 42.7 | 85 | 43 | 152 |
| 0 | 50 | 47.1 | 94 | 68 | 134 |
| 0 | 50 | 52.8 | 106 | 79 | 121 |
| 0 | 200 | 243 | 122 | 61 | 150 |
| 0 | 50 | 50.6 | 101 | 83 | 117 |
| 0 | 50 | 49.2 | 98 | 80 | 118 |
| 0 | 50 | 52 | 104 | 60 | 143 |
| 0 | 50 | 48.3 | 97 | 73 | 126 |
| 0 | 50 | 47.2 | 94 | 81 | 117 |
| 0 | 50 | 52.9 | 106 | 69 | 134 |
| 0 | 50 | 48.3 | 97 | 78 | 121 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 108-88-3 | Toluene | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 67-64-1 | Acetone | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 71-43-2 | Benzene | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11 | INITIAL | 1 | V2V3777-MB | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 100-41-4 | Ethylbenzene | 54.4 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 100-42-5 | Styrene | 55.6 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 10061-01- | cis-1,3-Dichloropropene | 55.7 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 10061-02- | trans-1,3-Dichloropropene | 56.7 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 106-46-7 | 1,4-Dichlorobenzene | 50.9 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 106-93-4 | 1,2-Dibromoethane | 53.4 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 107-06-2 | 1,2-Dichloroethane | 50.8 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 108-10-1 | 4-Methyl-2-pentanone(MIE | 257 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 108-87-2 | Methylcyclohexane | 51 | SC | Yes | Y | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | 50 ug/l added |

| | | | | | |
|---|---|---|---|---|---|
| 0 | 50 | 54.4 | 109 | 78 | 116 |
| 0 | 50 | 55.6 | 111 | 81 | 125 |
| 0 | 50 | 55.7 | 111 | 83 | 123 |
| 0 | 50 | 56.7 | 113 | 83 | 122 |
| 0 | 50 | 50.9 | 102 | 80 | 114 |
| 0 | 50 | 53.4 | 107 | 67 | 138 |
| 0 | 50 | 50.8 | 102 | 73 | 117 |
| 0 | 200 | 257 | 129 | 73 | 134 |
| 0 | 50 | 51 | 102 | 71 | 123 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 108-88-3 | Toluene | 51.1 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 108-90-7 | Chlorobenzene | 49.9 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 110-82-7 | Cyclohexane | 51.8 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 120-82-1 | 1,2,4-Trichlorobenzene | 51.7 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 124-48-1 | Dibromochloromethane | 50.9 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 127-18-4 | Tetrachloroethene | 49.7 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 1330-20-7 | Xylene (total) | 160 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 156-59-2 | cis-1,2-Dichloroethene | 57.6 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 156-60-5 | trans-1,2-Dichloroethene | 54.2 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 1634-04-4 | Methyl Tert Butyl Ether | 57.9 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 541-73-1 | 1,3-Dichlorobenzene | 51.3 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 56-23-5 | Carbon tetrachloride | 52.2 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 591-78-6 | 2-Hexanone | 257 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 67-64-1 | Acetone | 239 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 67-66-3 | Chloroform | 51.2 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 71-43-2 | Benzene | 51.8 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 71-55-6 | 1,1,1-Trichloroethane | 52.2 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 74-83-9 | Bromomethane | 86.5 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 74-87-3 | Chloromethane | 59.4 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 75-00-3 | Chloroethane | 99.4 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 75-01-4 | Vinyl chloride | 67.5 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 75-09-2 | Methylene chloride | 50.4 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 75-15-0 | Carbon disulfide | 42 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 75-25-2 | Bromoform | 50.8 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 75-27-4 | Bromodichloromethane | 51.3 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 75-34-3 | 1,1-Dichloroethane | 57.7 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 75-35-4 | 1,1-Dichloroethene | 51.3 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 75-69-4 | Trichlorofluoromethane | 50.8 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 75-71-8 | Dichlorodifluoromethane | 49.9 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 76-13-1 | Freon 113 | 46.7 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 78-87-5 | 1,2-Dichloropropane | 56.2 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 78-93-3 | 2-Butanone (MEK) | 256 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 79-00-5 | 1,1,2-Trichloroethane | 55.6 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 79-01-6 | Trichloroethene | 50.3 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 79-20-9 | Methyl Acetate | 56.5 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 79-34-5 | 1,1,2,2-Tetrachloroethane | 57.5 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 95-50-1 | 1,2-Dichlorobenzene | 52.4 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 96-12-8 | 1,2-Dibromo-3-chloroprop | 53.5 | SC | Yes | Y | |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18 | INITIAL | 1 | V2V3782-BS | 98-82-8 | Isopropylbenzene | 52.6 | SC | Yes | Y | |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 100-42-5 | Styrene | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |

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|---|---|---|---|---|---|---|---|---|---|
| | | Y | 0.49 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.78 | 5 | 5 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.50 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.59 | 1 | 1 ug/l | ug/l | | DUSR | 150 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.55 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 2.0 | 5 | 5 ug/l | ug/l | | DUSR | 200 ug/l added |
| | | Y | 3.1 | 10 | 10 ug/l | ug/l | | DUSR | 200 ug/l added |
| | | Y | 0.50 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.43 | 0.5 | 0.5 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 1.6 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.76 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.73 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.52 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 1.0 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.46 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.63 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.45 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.57 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.59 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.40 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.56 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.58 | 5 | 5 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 2.7 | 10 | 10 ug/l | ug/l | | DUSR | 200 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.80 | 5 | 5 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.65 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.53 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.65 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| U | U | Y | 0.60 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 ug/l | ug/l | | DUSR | ND |

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|---|---|---|---|---|---|
| 0 | 50 | 51.1 | 102 | 79 | 116 |
| 0 | 50 | 49.9 | 100 | 80 | 115 |
| 0 | 50 | 51.8 | 104 | 66 | 129 |
| 0 | 50 | 51.7 | 103 | 68 | 135 |
| 0 | 50 | 50.9 | 102 | 81 | 123 |
| 0 | 50 | 49.7 | 99 | 73 | 119 |
| 0 | 150 | 160 | 107 | 80 | 119 |
| 0 | 50 | 57.6 | 115 | 80 | 120 |
| 0 | 50 | 54.2 | 108 | 77 | 121 |
| 0 | 50 | 57.9 | 116 | 76 | 123 |
| 0 | 50 | 51.3 | 103 | 81 | 115 |
| 0 | 50 | 52.2 | 104 | 75 | 127 |
| 0 | 200 | 257 | 129 | 66 | 136 |
| 0 | 200 | 239 | 120 | 27 | 175 |
| 0 | 50 | 51.2 | 102 | 75 | 116 |
| 0 | 50 | 51.8 | 104 | 80 | 115 |
| 0 | 50 | 52.2 | 104 | 76 | 124 |
| 0 | 50 | 86.5 | 173 | 40 | 162 |
| 0 | 50 | 59.4 | 119 | 41 | 153 |
| 0 | 50 | 99.4 | 199 | 56 | 144 |
| 0 | 50 | 67.5 | 135 | 52 | 146 |
| 0 | 50 | 50.4 | 101 | 73 | 123 |
| 0 | 50 | 42 | 84 | 64 | 130 |
| 0 | 50 | 50.8 | 102 | 77 | 135 |
| 0 | 50 | 51.3 | 103 | 82 | 119 |
| 0 | 50 | 57.7 | 115 | 75 | 125 |
| 0 | 50 | 51.3 | 103 | 70 | 124 |
| 0 | 50 | 50.8 | 102 | 67 | 134 |
| 0 | 50 | 49.9 | 100 | 43 | 152 |
| 0 | 50 | 46.7 | 93 | 68 | 134 |
| 0 | 50 | 56.2 | 112 | 79 | 121 |
| 0 | 200 | 256 | 128 | 61 | 150 |
| 0 | 50 | 55.6 | 111 | 83 | 117 |
| 0 | 50 | 50.3 | 101 | 80 | 118 |
| 0 | 50 | 56.5 | 113 | 60 | 143 |
| 0 | 50 | 57.5 | 115 | 73 | 126 |
| 0 | 50 | 52.4 | 105 | 81 | 117 |
| 0 | 50 | 53.5 | 107 | 69 | 134 |
| 0 | 50 | 52.6 | 105 | 78 | 121 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 108-88-3 | Toluene | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 108-90-7 | Chlorobenzene | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 110-82-7 | Cyclohexane | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 120-82-1 | 1,2,4-Trichlorobenzene | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 124-48-1 | Dibromochloromethane | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 127-18-4 | Tetrachloroethene | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 1330-20-7 | Xylene (total) | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 156-59-2 | cis-1,2-Dichloroethene | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 156-60-5 | trans-1,2-Dichloroethene | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 1634-04-4 | Methyl Tert Butyl Ether | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 541-73-1 | 1,3-Dichlorobenzene | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 56-23-5 | Carbon tetrachloride | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 591-78-6 | 2-Hexanone | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 67-64-1 | Acetone | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 67-66-3 | Chloroform | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 71-43-2 | Benzene | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 71-55-6 | 1,1,1-Trichloroethane | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 74-83-9 | Bromomethane | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 74-87-3 | Chloromethane | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 75-00-3 | Chloroethane | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 75-01-4 | Vinyl chloride | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 75-09-2 | Methylene chloride | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 75-15-0 | Carbon disulfide | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 75-25-2 | Bromoform | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 75-27-4 | Bromodichloromethane | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 75-34-3 | 1,1-Dichloroethane | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 75-35-4 | 1,1-Dichloroethene | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 75-69-4 | Trichlorofluoromethane | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 75-71-8 | Dichlorodifluoromethane | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 76-13-1 | Freon 113 | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 78-87-5 | 1,2-Dichloropropane | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 78-93-3 | 2-Butanone (MEK) | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 79-00-5 | 1,1,2-Trichloroethane | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 79-01-6 | Trichloroethene | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 79-20-9 | Methyl Acetate | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 79-34-5 | 1,1,2,2-Tetrachloroethane | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 95-50-1 | 1,2-Dichlorobenzene | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 96-12-8 | 1,2-Dibromo-3-chloropropane | | TRG | Yes | N | U |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04 | INITIAL | 1 | V2V3782-MB | 98-82-8 | Isopropylbenzene | | TRG | Yes | N | U |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 100-41-4 | Ethylbenzene | 49.9 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 100-42-5 | Styrene | 49.4 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 10061-01- | cis-1,3-Dichloropropene | 48 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 10061-02- | trans-1,3-Dichloropropene | 42.7 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 106-46-7 | 1,4-Dichlorobenzene | 50.7 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 106-93-4 | 1,2-Dibromoethane | 48.3 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 107-06-2 | 1,2-Dichloroethane | 48.5 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 108-10-1 | 4-Methyl-2-pentanone(MIE | 205 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 108-87-2 | Methylcyclohexane | 53.8 | SC | Yes | Y | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| | | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.47 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.43 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.48 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 0.60 | 1 | 1 | ug/l | ug/l | DUSR | 50 ug/l added |
| | | Y | 1.9 | 5 | 5 | ug/l | ug/l | DUSR | 200 ug/l added |
| | | Y | 0.60 | 5 | 5 | ug/l | ug/l | DUSR | 50 ug/l added |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 50 | 49.9 | 100 | | 78 | 116 |
| 0 | 50 | 49.4 | 99 | | 81 | 125 |
| 0 | 50 | 48 | 96 | | 83 | 123 |
| 0 | 50 | 42.7 | 85 | | 83 | 122 |
| 0 | 50 | 50.7 | 101 | | 80 | 114 |
| 0 | 50 | 48.3 | 97 | | 67 | 138 |
| 0 | 50 | 48.5 | 97 | | 73 | 117 |
| 0 | 200 | 205 | 103 | | 73 | 134 |
| 0 | 50 | 53.8 | 108 | | 71 | 123 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 108-88-3 | Toluene | 51.4 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 108-90-7 | Chlorobenzene | 51.9 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 110-82-7 | Cyclohexane | 48 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 120-82-1 | 1,2,4-Trichlorobenzene | 57.9 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 124-48-1 | Dibromochloromethane | 45.9 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 127-18-4 | Tetrachloroethene | 53.6 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 1330-20-7 | Xylene (total) | 146 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 156-59-2 | cis-1,2-Dichloroethene | 52.5 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 156-60-5 | trans-1,2-Dichloroethene | 55.7 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 1634-04-4 | Methyl Tert Butyl Ether | 51.4 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 541-73-1 | 1,3-Dichlorobenzene | 53.5 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 56-23-5 | Carbon tetrachloride | 49.3 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 591-78-6 | 2-Hexanone | 187 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 67-64-1 | Acetone | 208 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 67-66-3 | Chloroform | 48.9 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 71-43-2 | Benzene | 53.2 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 71-55-6 | 1,1,1-Trichloroethane | 50.4 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 74-83-9 | Bromomethane | 43.1 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 74-87-3 | Chloromethane | 49.9 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 75-00-3 | Chloroethane | 44.1 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 75-01-4 | Vinyl chloride | 47.2 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 75-09-2 | Methylene chloride | 54.7 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 75-15-0 | Carbon disulfide | 54.2 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 75-25-2 | Bromoform | 42.9 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 75-27-4 | Bromodichloromethane | 49.3 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 75-34-3 | 1,1-Dichloroethane | 53.9 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 75-35-4 | 1,1-Dichloroethene | 57.7 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 75-69-4 | Trichlorofluoromethane | 52.8 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 75-71-8 | Dichlorodifluoromethane | 53.8 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 76-13-1 | Freon 113 | 62 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 78-87-5 | 1,2-Dichloropropane | 56.4 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 78-93-3 | 2-Butanone (MEK) | 189 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 79-00-5 | 1,1,2-Trichloroethane | 53 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 79-01-6 | Trichloroethene | 54.8 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 79-20-9 | Methyl Acetate | 49.9 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 79-34-5 | 1,1,2,2-Tetrachloroethane | 47.6 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 95-50-1 | 1,2-Dichlorobenzene | 49.7 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 96-12-8 | 1,2-Dibromo-3-chloroprop | 46.9 | SC | Yes | Y | |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19 | INITIAL | 1 | VL10519-BS | 98-82-8 | Isopropylbenzene | 50.7 | SC | Yes | Y | |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 100-41-4 | Ethylbenzene | | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 100-42-5 | Styrene | | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 10061-01- | cis-1,3-Dichloropropene | | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 10061-02- | trans-1,3-Dichloropropene | | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 106-46-7 | 1,4-Dichlorobenzene | | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 106-93-4 | 1,2-Dibromoethane | | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 107-06-2 | 1,2-Dichloroethane | | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 108-10-1 | 4-Methyl-2-pentanone(MIBK) | | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 108-87-2 | Methylcyclohexane | | TRG | Yes | N | U |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Y | 0.49 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.78 | 5 | 5 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.50 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.56 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.59 | 1 | 1 ug/l | ug/l | | DUSR | 150 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.55 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 2.0 | 5 | 5 ug/l | ug/l | | DUSR | 200 ug/l added |
| | | Y | 3.1 | 10 | 10 ug/l | ug/l | | DUSR | 200 ug/l added |
| | | Y | 0.50 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.43 | 0.5 | 0.5 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.54 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 1.6 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.76 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.73 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.52 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 1.0 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.46 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.63 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.45 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.57 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.59 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.40 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.56 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.58 | 5 | 5 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.51 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 2.7 | 10 | 10 ug/l | ug/l | | DUSR | 200 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.80 | 5 | 5 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.65 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.53 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.53 | 2 | 2 ug/l | ug/l | | DUSR | 50 ug/l added |
| | | Y | 0.65 | 1 | 1 ug/l | ug/l | | DUSR | 50 ug/l added |
| U | U | Y | 0.60 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.49 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.47 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.43 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.48 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 1 | 1 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 1.9 | 5 | 5 ug/l | ug/l | | DUSR | ND |
| U | U | Y | 0.60 | 5 | 5 ug/l | ug/l | | DUSR | ND |

| | | | | | |
|---|---|---|---|---|---|
| 0 | 50 | 51.4 | 103 | 79 | 116 |
| 0 | 50 | 51.9 | 104 | 80 | 115 |
| 0 | 50 | 48 | 96 | 66 | 129 |
| 0 | 50 | 57.9 | 116 | 68 | 135 |
| 0 | 50 | 45.9 | 92 | 81 | 123 |
| 0 | 50 | 53.6 | 107 | 73 | 119 |
| 0 | 150 | 146 | 97 | 80 | 119 |
| 0 | 50 | 52.5 | 105 | 80 | 120 |
| 0 | 50 | 55.7 | 111 | 77 | 121 |
| 0 | 50 | 51.4 | 103 | 76 | 123 |
| 0 | 50 | 53.5 | 107 | 81 | 115 |
| 0 | 50 | 49.3 | 99 | 75 | 127 |
| 0 | 200 | 187 | 94 | 66 | 136 |
| 0 | 200 | 208 | 104 | 27 | 175 |
| 0 | 50 | 48.9 | 98 | 75 | 116 |
| 0 | 50 | 53.2 | 106 | 80 | 115 |
| 0 | 50 | 50.4 | 101 | 76 | 124 |
| 0 | 50 | 43.1 | 86 | 40 | 162 |
| 0 | 50 | 49.9 | 100 | 41 | 153 |
| 0 | 50 | 44.1 | 88 | 56 | 144 |
| 0 | 50 | 47.2 | 94 | 52 | 146 |
| 0 | 50 | 54.7 | 109 | 73 | 123 |
| 0 | 50 | 54.2 | 108 | 64 | 130 |
| 0 | 50 | 42.9 | 86 | 77 | 135 |
| 0 | 50 | 49.3 | 99 | 82 | 119 |
| 0 | 50 | 53.9 | 108 | 75 | 125 |
| 0 | 50 | 57.7 | 115 | 70 | 124 |
| 0 | 50 | 52.8 | 106 | 67 | 134 |
| 0 | 50 | 53.8 | 108 | 43 | 152 |
| 0 | 50 | 62 | 124 | 68 | 134 |
| 0 | 50 | 56.4 | 113 | 79 | 121 |
| 0 | 200 | 189 | 95 | 61 | 150 |
| 0 | 50 | 53 | 106 | 83 | 117 |
| 0 | 50 | 54.8 | 110 | 80 | 118 |
| 0 | 50 | 49.9 | 100 | 60 | 143 |
| 0 | 50 | 47.6 | 95 | 73 | 126 |
| 0 | 50 | 49.7 | 99 | 81 | 117 |
| 0 | 50 | 46.9 | 94 | 69 | 134 |
| 0 | 50 | 50.7 | 101 | 78 | 121 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 108-88-3 | Toluene | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 108-90-7 | Chlorobenzene | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 110-82-7 | Cyclohexane | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 120-82-1 | 1,2,4-Trichlorobenzene | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 124-48-1 | Dibromochloromethane | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 127-18-4 | Tetrachloroethene | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 1330-20-7 | Xylene (total) | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 156-59-2 | cis-1,2-Dichloroethene | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 156-60-5 | trans-1,2-Dichloroethene | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 1634-04-4 | Methyl Tert Butyl Ether | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 541-73-1 | 1,3-Dichlorobenzene | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 56-23-5 | Carbon tetrachloride | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 591-78-6 | 2-Hexanone | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 67-64-1 | Acetone | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 67-66-3 | Chloroform | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 71-43-2 | Benzene | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 71-55-6 | 1,1,1-Trichloroethane | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 74-83-9 | Bromomethane | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 74-87-3 | Chloromethane | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 75-00-3 | Chloroethane | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 75-01-4 | Vinyl chloride | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 75-09-2 | Methylene chloride | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 75-15-0 | Carbon disulfide | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 75-25-2 | Bromoform | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 75-27-4 | Bromodichloromethane | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 75-34-3 | 1,1-Dichloroethane | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 75-35-4 | 1,1-Dichloroethene | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 75-69-4 | Trichlorofluoromethane | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 75-71-8 | Dichlorodifluoromethane | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 76-13-1 | Freon 113 | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 78-87-5 | 1,2-Dichloropropane | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 78-93-3 | 2-Butanone (MEK) | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 79-00-5 | 1,1,2-Trichloroethane | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 79-01-6 | Trichloroethene | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 79-20-9 | Methyl Acetate | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 79-34-5 | 1,1,2,2-Tetrachloroethane | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 95-50-1 | 1,2-Dichlorobenzene | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 96-12-8 | 1,2-Dibromo-3-chloropropane | TRG | Yes | N | U |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29 | INITIAL | 1 | VL10519-MB | 98-82-8 | Isopropylbenzene | TRG | Yes | N | U |

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|---|---|---|---|---|---|---|---|---|---|
| U | U | Y | 0.49 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.78 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.55 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.0 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 3.1 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.50 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.43 | 0.5 | 0.5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.54 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.6 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.76 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.73 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.52 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 1.0 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.46 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.63 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.45 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.57 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.59 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.40 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.56 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.58 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.51 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 2.7 | 10 | 10 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.80 | 5 | 5 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 1 | 1 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.53 | 2 | 2 | ug/l | ug/l | DUSR | ND |
| U | U | Y | 0.65 | 1 | 1 | ug/l | ug/l | DUSR | ND |

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| #sys_sample_code | lab_anl_method_name | analysis_date | fraction | column_number | test_type | test_batch_type | test_batch_id |
|---|---|---|---|---|---|---|---|
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:30:00 | NA | NA | INITIAL | ANALYSIS | V2V3773 |
| EB-091922-ACTD-JD52507AQ | SW8260 | 09/28/2022 00:30:00 | NA | NA | INITIAL | PREP | V2V3773 |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:08:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| EB-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:08:00 | NA | NA | INITIAL | PREP | V2V3777 |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| EB-092222-1-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:31:00 | NA | NA | INITIAL | PREP | V2V3777 |
| EB-092222-2-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| EB-092222-2-ACTD-JD52507AQ | SW8260 | 09/30/2022 01:54:00 | NA | NA | INITIAL | PREP | V2V3777 |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57:00 | NA | NA | INITIAL | ANALYSIS | V2V3773 |
| EXB-10-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:57:00 | NA | NA | INITIAL | PREP | V2V3773 |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:25:00 | NA | NA | DILUTION1 | ANALYSIS | VL10519 |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:25:00 | NA | NA | DILUTION1 | PREP | VL10519 |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48:00 | NA | NA | INITIAL | ANALYSIS | VL10519 |
| EXB-11-ACTD-JD52507AQ | SW8260 | 10/04/2022 13:48:00 | NA | NA | INITIAL | PREP | VL10519 |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16:00 | NA | NA | INITIAL | ANALYSIS | V2V3773 |
| EXB-9-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:16:00 | NA | NA | INITIAL | PREP | V2V3773 |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:58:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| JD52507-10MS-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:58:00 | NA | NA | INITIAL | PREP | V2V3777 |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:40:00 | NA | NA | INITIAL | ANALYSIS | VL10519 |
| JD52507-37MS-ACTD-JD52507AQ | SW8260 | 10/04/2022 17:40:00 | NA | NA | INITIAL | PREP | VL10519 |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:20:00 | NA | NA | INITIAL | ANALYSIS | V2V3773 |
| JD52507-6MS-ACTD-JD52507AQ | SW8260 | 09/27/2022 23:20:00 | NA | NA | INITIAL | PREP | V2V3773 |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:50:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:50:00 | NA | NA | INITIAL | PREP | V2V3777 |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 13:12:00 | NA | NA | DILUTION1 | ANALYSIS | V2A9583 |
| MW-092022-ACTD-JD52507AQ | SW8260 | 09/30/2022 13:12:00 | NA | NA | DILUTION1 | PREP | V2A9583 |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:46:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| MW-092222-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:46:00 | NA | NA | INITIAL | PREP | V2V3777 |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:36:00 | NA | NA | INITIAL | ANALYSIS | V1A9698 |
| MW-12C-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:36:00 | NA | NA | INITIAL | PREP | V1A9698 |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00:00 | NA | NA | INITIAL | ANALYSIS | V1A9698 |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:00:00 | NA | NA | INITIAL | PREP | V1A9698 |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/29/2022 12:06:00 | NA | NA | DILUTION1 | ANALYSIS | V1X8637 |
| MW-13C-ACTD-JD52507AQ | SW8260 | 09/29/2022 12:06:00 | NA | NA | DILUTION1 | PREP | V1X8637 |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:33:00 | NA | NA | INITIAL | ANALYSIS | V1A9705 |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:33:00 | NA | NA | INITIAL | PREP | V1A9705 |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 15:45:00 | NA | NA | DILUTION1 | ANALYSIS | V1A9705 |
| MW-15C-ACTD-JD52507AQ | SW8260 | 09/30/2022 15:45:00 | NA | NA | DILUTION1 | PREP | V1A9705 |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41:00 | NA | NA | INITIAL | ANALYSIS | V1X8637 |
| MW-16-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 18:41:00 | NA | NA | INITIAL | PREP | V1X8637 |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10:00 | NA | NA | INITIAL | ANALYSIS | V2V3782 |
| MW-17-40-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:10:00 | NA | NA | INITIAL | PREP | V2V3782 |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| MW-18A-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:14:00 | NA | NA | INITIAL | PREP | V2V3777 |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| MW-1B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:23:00 | NA | NA | INITIAL | PREP | V2V3777 |
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:48:00 | NA | NA | INITIAL | ANALYSIS | V1A9698 |

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|---|---|---|---|---|---|---|---|
| MW-20B-ACTD-JD52507AQ | SW8260 | 09/27/2022 18:48:00 | NA | NA | INITIAL | PREP | V1A9698 |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:00:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| MW-22B-ACTD-JD52507AQ | SW8260 | 09/30/2022 05:00:00 | NA | NA | INITIAL | PREP | V2V3777 |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03:00 | NA | NA | INITIAL | ANALYSIS | V2V3782 |
| MW-25A-ACTD-JD52507AQ | SW8260 | 10/03/2022 20:03:00 | NA | NA | INITIAL | PREP | V2V3782 |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:33:00 | NA | NA | INITIAL | ANALYSIS | V2V3782 |
| MW-26A-ACTD-JD52507AQ | SW8260 | 10/03/2022 16:33:00 | NA | NA | INITIAL | PREP | V2V3782 |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| MW-2B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:09:00 | NA | NA | INITIAL | PREP | V2V3777 |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:49:00 | NA | NA | INITIAL | ANALYSIS | V2V3773 |
| MW-32B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:49:00 | NA | NA | INITIAL | PREP | V2V3773 |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| MW-36B-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:41:00 | NA | NA | INITIAL | PREP | V2V3777 |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| MW-3B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:32:00 | NA | NA | INITIAL | PREP | V2V3777 |
| MW-3B-ACTD-JD52507AQ | SW8260 | 10/03/2022 18:30:00 | NA | NA | DILUTION1 | ANALYSIS | V2V3782 |
| MW-3B-ACTD-JD52507AQ | SW8260 | 10/03/2022 18:30:00 | NA | NA | DILUTION1 | PREP | V2V3782 |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| MW-46-43C-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:04:00 | NA | NA | INITIAL | PREP | V2V3777 |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09:00 | NA | NA | INITIAL | ANALYSIS | V1A9705 |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 14:09:00 | NA | NA | INITIAL | PREP | V1A9705 |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 16:09:00 | NA | NA | DILUTION1 | ANALYSIS | V1A9705 |
| MW-46-72C-ACTD-JD52507AQ | SW8260 | 09/30/2022 16:09:00 | NA | NA | DILUTION1 | PREP | V1A9705 |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47:00 | NA | NA | INITIAL | ANALYSIS | V1A9698 |
| MW-4B-ACTD-JD52507AQ | SW8260 | 09/27/2022 20:47:00 | NA | NA | INITIAL | PREP | V1A9698 |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32:00 | NA | NA | INITIAL | ANALYSIS | V1X8637 |
| MW-5-100-ACTD-JD52507AQ | SW8260 | 09/29/2022 17:32:00 | NA | NA | INITIAL | PREP | V1X8637 |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03:00 | NA | NA | INITIAL | ANALYSIS | V2V3773 |
| MW-5-25-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:03:00 | NA | NA | INITIAL | PREP | V2V3773 |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:39:00 | NA | NA | DILUTION1 | ANALYSIS | V2V3773 |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/28/2022 01:39:00 | NA | NA | DILUTION1 | PREP | V2V3773 |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11:00 | NA | NA | INITIAL | ANALYSIS | V2A9581 |
| MW-5-40-ACTD-JD52507AQ | SW8260 | 09/29/2022 13:11:00 | NA | NA | INITIAL | PREP | V2A9581 |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 03:27:00 | NA | NA | INITIAL | PREP | V2V3777 |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:15:00 | NA | NA | DILUTION1 | ANALYSIS | V2A9583 |
| MW-50-160D-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:15:00 | NA | NA | DILUTION1 | PREP | V2A9583 |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| MW-5B-ACTD-JD52507AQ | SW8260 | 09/30/2022 06:55:00 | NA | NA | INITIAL | PREP | V2V3777 |
| MW-5B-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:51:00 | NA | NA | DILUTION1 | ANALYSIS | V2V3782 |
| MW-5B-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:51:00 | NA | NA | DILUTION1 | PREP | V2V3782 |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11:00 | NA | NA | INITIAL | ANALYSIS | V1A9698 |
| MW-7-40-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:11:00 | NA | NA | INITIAL | PREP | V1A9698 |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12:00 | NA | NA | INITIAL | ANALYSIS | V1A9698 |
| MW-7B-ACTD-JD52507AQ | SW8260 | 09/27/2022 19:12:00 | NA | NA | INITIAL | PREP | V1A9698 |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| MW-8-40-ACTD-JD52507AQ | SW8260 | 09/30/2022 04:37:00 | NA | NA | INITIAL | PREP | V2V3777 |
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26:00 | NA | NA | INITIAL | ANALYSIS | V2V3773 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MW-8B-ACTD-JD52507AQ | SW8260 | 09/28/2022 02:26:00 | NA | NA | INITIAL | PREP | V2V3773 |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| TRIP BLANK-ACTD-JD52507AQ | SW8260 | 09/30/2022 02:17:00 | NA | NA | INITIAL | PREP | V2V3777 |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32:00 | NA | NA | INITIAL | ANALYSIS | V1A9698 |
| V1A9698-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 10:32:00 | NA | NA | INITIAL | PREP | V1A9698 |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:28:00 | NA | NA | INITIAL | ANALYSIS | V1A9698 |
| V1A9698-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 11:28:00 | NA | NA | INITIAL | PREP | V1A9698 |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:38:00 | NA | NA | INITIAL | ANALYSIS | V1A9705 |
| V1A9705-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:38:00 | NA | NA | INITIAL | PREP | V1A9705 |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29:00 | NA | NA | INITIAL | ANALYSIS | V1A9705 |
| V1A9705-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 12:29:00 | NA | NA | INITIAL | PREP | V1A9705 |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34:00 | NA | NA | INITIAL | ANALYSIS | V1X8637 |
| V1X8637-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:34:00 | NA | NA | INITIAL | PREP | V1X8637 |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:20:00 | NA | NA | INITIAL | ANALYSIS | V1X8637 |
| V1X8637-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:20:00 | NA | NA | INITIAL | PREP | V1X8637 |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19:00 | NA | NA | INITIAL | ANALYSIS | V2A9581 |
| V2A9581-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 10:19:00 | NA | NA | INITIAL | PREP | V2A9581 |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16:00 | NA | NA | INITIAL | ANALYSIS | V2A9581 |
| V2A9581-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 11:16:00 | NA | NA | INITIAL | PREP | V2A9581 |
| V2A9583-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 10:21:00 | NA | NA | INITIAL | ANALYSIS | V2A9583 |
| V2A9583-BS-ACTD-JD52507AQ | SW8260 | 09/30/2022 10:21:00 | NA | NA | INITIAL | PREP | V2A9583 |
| V2A9583-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:18:00 | NA | NA | INITIAL | ANALYSIS | V2A9583 |
| V2A9583-MB-ACTD-JD52507AQ | SW8260 | 09/30/2022 11:18:00 | NA | NA | INITIAL | PREP | V2A9583 |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47:00 | NA | NA | INITIAL | ANALYSIS | V2V3773 |
| V2V3773-BS-ACTD-JD52507AQ | SW8260 | 09/27/2022 21:47:00 | NA | NA | INITIAL | PREP | V2V3773 |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:33:00 | NA | NA | INITIAL | ANALYSIS | V2V3773 |
| V2V3773-MB-ACTD-JD52507AQ | SW8260 | 09/27/2022 22:33:00 | NA | NA | INITIAL | PREP | V2V3773 |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| V2V3777-BS-ACTD-JD52507AQ | SW8260 | 09/29/2022 22:25:00 | NA | NA | INITIAL | PREP | V2V3777 |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11:00 | NA | NA | INITIAL | ANALYSIS | V2V3777 |
| V2V3777-MB-ACTD-JD52507AQ | SW8260 | 09/29/2022 23:11:00 | NA | NA | INITIAL | PREP | V2V3777 |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18:00 | NA | NA | INITIAL | ANALYSIS | V2V3782 |
| V2V3782-BS-ACTD-JD52507AQ | SW8260 | 10/03/2022 12:18:00 | NA | NA | INITIAL | PREP | V2V3782 |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04:00 | NA | NA | INITIAL | ANALYSIS | V2V3782 |
| V2V3782-MB-ACTD-JD52507AQ | SW8260 | 10/03/2022 13:04:00 | NA | NA | INITIAL | PREP | V2V3782 |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19:00 | NA | NA | INITIAL | ANALYSIS | VL10519 |
| VL10519-BS-ACTD-JD52507AQ | SW8260 | 10/04/2022 11:19:00 | NA | NA | INITIAL | PREP | VL10519 |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29:00 | NA | NA | INITIAL | ANALYSIS | VL10519 |
| VL10519-MB-ACTD-JD52507AQ | SW8260 | 10/04/2022 12:29:00 | NA | NA | INITIAL | PREP | VL10519 |

# APPENDIX

# C MONITORING WELL PURGE LOGS

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# Low-Flow Groundwater Sampling Monitoring Form

| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | MW-16-100 | **Site ID:** | EPT - Ithaca, New York | **Sample Date:** | 9/21/22 |
| **Well Diameter** | 2 in | **Sampling Event:** | Quarterly Groundwater Sampling | | |
| **Depth to Water** | ~~80~~ 76.71 ft | | | | |
| **Total Well Depth** | 103.1 ft | **Samplers** | C. Porreca | | |
| **Screen Length** | N/A ft | **Weather Conditions and Notes:** | 80°F, mostly cloudy | | |
| **Pump Intake** | 85.0 ft | **Flow Rate** | 50 mL/min | | |

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

## Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

Air temp: 80 °F | Start purge: 1350 | End purge: | Pump Type: QED Sample pro w/ MP-15 and $CO_2$

| Time | DTW | Purge Volume (L) | pH | Conductivity (mS/cm) | Turbidity (NTU) | D.O. (mg/l) * | T (°C) | ORP (mV) | Appearance of Purge Water | Flow Rate (mL/min) |
|---|---|---|---|---|---|---|---|---|---|---|
| ~~1605~~ 1605 | 77.39 | | 6.71 | 2.94 | 20.1 | 3.05 | 22.24 | -71 | | |
| 1610 | 77.48 | | 6.68 | 3.03 | 13.7 | 2.27 | 22.02 | -68 | | |
| ~~1615~~ | | | | | Paused to switch compressor | | | | | |
| 1620 | 78.02 | ~1.5 | 6.87 | 3.37 | 12.2 | 1.34 | 21.68 | -74 | | 50 |
| 1625 | 78.76 | 1.75 | 7.19 | 3.32 | 25.0 | 1.07 | 20.41 | -76 | | |
| 1630 | 79.14 | 2.0 | 7.56 | 3.44 | 77.5 | 0.89 | 19.33 | -81 | | |
| 1635 | 79.52 | 2.25 | 8.01 | 3.52 | 91.3 | 0.70 | 19.11 | -85 | | |
| 1640 | 79.90 | 2.5 | 8.28 | 3.55 | 84.5 | 0.54 | 19.16 | -88 | | |
| 1645 | 80.25 | 2.75 | 8.41 | 3.56 | 59.3 | 0.46 | 18.81 | -88 | | |
| 1650 | 80.63 | 3.0 | 8.50 | 3.49 | 43.8 | 0.35 | 18.88 | -88 | | |
| 1655 | 80.98 | 3.25 | 8.58 | 3.36 | 23.7 | 0.23 | 19.24 | -89 | | |
| 1700 | 81.33 | 3.5 | 8.60 | 3.30 | 18.3 | 0.23 | 18.86 | -87 | | |
| 1705 | 81.61 | 3.75 | 8.61 | 3.22 | 17.1 | 0.19 | 19.04 | -87 | | |
| 1710 | 81.98 | 4.0 | 8.61 | 3.19 | 10.6 | 0.21 | 18.69 | -86 | | |
| 1715 | 82.31 | 4.25 | 8.58 | 3.13 | 9.9 | 0.17 | 18.66 | -86 | | |
| 1720 | 82.67 | 4.5 | 8.54 | 3.09 | 10.8 | 0.14 | 18.59 | -84 | | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| 3 | MW-16-100 | VOCs | HCl | VOA VIALS | | 1725 | Leaky Flow-through cell |
| | | | | | | | |
| | | | | | | | |

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# Low-Flow Groundwater Sampling Monitoring Form

| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | MW-7-40 | **Site ID:** | EPT - Ithaca, New York | **Sample Date:** | 9/21/22 |
| **Well Diameter** | 4 in | **Sampling Event:** | Quarterly Groundwater Sampling | | |
| **Depth to Water** | 17.24 ft | | | | |
| **Total Well Depth** | 47.2 ft | **Samplers** | C. Porreca | | |
| **Screen Length** | N/A ft | **Weather Conditions and Notes:** | 79°F, sunny | | |
| **Pump Intake** | 40.0 ft | **Flow Rate** | 50 mL/min | | |

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

## Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

Air temp: 79 °F | Start purge: 1305 | End purge: | Pump Type: QED Sample pro w/ MP-15 and $CO_2$

| Time | DTW | Purge Volume (L) | pH | Conductivity (mS/cm) | Turbidity (NTU) | D.O. (mg/l) * | T (°C) | ORP (mV) | Appearance of Purge Water | Flow Rate (mL/min) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1315 | 17.42 | 0.5 | 6.73 | 1.96 | 71.1 | 0.38 | 19.43 | -103 | Clear; red/brown | 50 |
| 1320 | 17.52 | 0.75 | 7.06 | 2.00 | 68.7 | 0.40 | 19.89 | -109 | silty sediment | |
| 1325 | 17.60 | 1.0 | 7.34 | 2.01 | 55.0 | 0.44 | 20.85 | -112 | | |
| 1330 | 17.66 | 1.25 | 7.49 | 2.00 | 50.5 | 0.47 | 21.86 | -111 | | |
| 1335 | 17.71 | 1.5 | 7.54 | 2.00 | 44.8 | 0.47 | 22.29 | -112 | | |
| 1340 | 17.80 | 1.75 | 7.61 | 2.00 | 27.6 | 0.43 | 22.69 | -112 | | |
| 1345 | 17.86 | 2.0 | 7.68 | 2.00 | 33.2 | 0.38 | 22.93 | -115 | | |
| 1350 | 17.91 | 2.25 | 7.70 | 2.00 | 24.0 | 0.40 | 23.31 | -113 | | |
| 1355 | 17.96 | 2.5 | 7.66 | 2.00 | 16.7 | 0.30 | 23.56 | -113 | | |
| 1400 | 18.02 | 2.75 | 7.68 | 2.00 | 16.2 | 0.30 | 23.74 | -115 | | |
| 1405 | 18.11 | 3.0 | 7.65 | 2.00 | 16.6 | 0.12 | 23.88 | -119 | | |
| 1410 | 18.17 | 3.25 | 7.68 | 2.00 | 13.7 | 0.16 | 23.89 | -125 | | |
| 1415 | 18.23 | 3.5 | 7.68 | 2.00 | 11.7 | 0.22 | 24.03 | -125 | | |
| 1420 | 18.29 | 3.75 | 7.73 | 2.00 | 11.6 | 0.15 | 23.97 | -128 | | |
| 1425 | 18.36 | 4.0 | 7.78 | 2.00 | 12.1 | 0.11 | 23.87 | -131 | | |
| 1430 | 18.43 | 4.25 | 7.83 | 2.00 | 12.0 | 0.08 | 23.93 | -131 | | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| 3 | MW-7-40 | VOCs | HCl | VOA vials | | 1435 | leaky flow-through cell |
| | | | | | | | |
| | | | | | | | |

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# Low-Flow Groundwater Sampling Monitoring Form

| | | | | | |
|---|---|---|---|---|---|
| Well ID | ~~EXB-10~~ EXB-11 | Site ID: | EPT - Ithaca, New York | Sample Date: | 9/21/22 |
| Well Diameter | 4 in | Sampling Event: | Quarterly Groundwater Sampling | | |
| Depth to Water | ~~6.89~~ ft 6.19 | Samplers | C. Porreca | | |
| Total Well Depth | 11.02 ft | Weather Conditions and Notes: | 63°F, partly cloudy/hazy | | |
| Screen Length | N/A ft | Flow Rate | 50 ml/min | | |
| Pump Intake | 10 ft | | | | |

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

## Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

Air temp: ~~925~~ 63 °F | Start purge: 925 | End purge: | Pump Type: QED Sample pro w/ MP-15 and $CO_2$

| Time | DTW | Purge Volume (L) | pH | Conductivity (mS/cm) | Turbidity (NTU) | D.O. (mg/l) * | T (°C) | ORP (mV) | Appearance of Purge Water | Flow Rate (mL/min) |
|---|---|---|---|---|---|---|---|---|---|---|
| 935 | 8.19 | 0.5 | 5.92 | 2.24 | 11.9 | 0.67 | 15.65 | 49 | Clear | 50 |
| 940 | 8.43 | 0.75 | 6.10 | 2.26 | 11.3 | 0.06 | 15.72 | 43 | | |
| 945 | 8.66 | 1.0 | 6.33 | 2.28 | 11.0 | Ø | 15.71 | 36 | | |
| 950 | 8.83 | 1.25 | 6.42 | 2.31 | 12.0 | Ø | 15.74 | 40 | | |
| 955 | 8.98 | 1.5 | 6.50 | 2.33 | 11.2 | Ø | 15.72 | 47 | | |
| 1000 | 9.18 | 1.75 | 6.56 | 2.36 | 10.4 | Ø | 15.69 | 50 | | |
| 1005 | 9.38 | 2.0 | 6.65 | 2.35 | 12.1 | Ø | 15.77 | 55 | | |
| 1010 | 9.58 | 2.25 | 6.76 | 2.35 | 11.0 | Ø | 15.78 | 55 | | |
| 1015 | 9.78 | 2.75 | 6.79 | 2.36 | 9.8 | Ø | 15.78 | 57 | | |
| 1020 | 9.93 | 3.0 | 6.82 | 2.37 | 9.5 | Ø | 15.83 | 57 | | |
| 1025 | 10.10 | 3.25 | 6.83 | 2.36 | 11.3 | Ø | 15.87 | 61 | | |
| 1030 | 10.27 | 3.5 | 6.89 | 2.37 | 11.0 | Ø | 15.86 | 61 | | |
| 1035 | 10.43 | 3.75 | 6.88 | 2.40 | 10.5 | Ø | 15.76 | 64 | | |
| 1040 | 10.55 | 4.0 | 6.92 | 2.41 | 10.2 | Ø | 15.69 | 63 | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| 3 | EXB-11 | VOCs | HCl | VOAs | | 1045 | *loose flow-through cell leaks |
| | | | | | | | |
| | | | | | | | |

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# Low-Flow Groundwater Sampling Monitoring Form



| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | MW-50-160D | **Site ID:** | EPT - Ithaca, New York | **Sample Date:** | 9/20/22 |
| **Well Diameter** | 4 in | **Sampling Event:** | Quarterly Groundwater Sampling | | |
| **Depth to Water** | 128.31 ft | | | | |
| **Total Well Depth** | 163.50 ft | **Samplers** | C. Porreca | | |
| **Screen Length** | N/A ft | **Weather Conditions and Notes:** | 69°F, partly cloudy, scattered light rain | | |
| **Pump Intake** | 161.0 ft | **Flow Rate** | 100 mL/min | | |

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

## Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

Air temp: 69 °F | Start purge: 1350 | End purge: | Pump Type: QED Sample pro w/ MP-15 and $CO_2$

| Time | DTW | Purge Volume (L) | pH | Conductivity (mS/cm) | Turbidity (NTU) | D.O. (mg/l) * | T (°C) | ORP (mV) | Appearance of Purge Water | Flow Rate (mL/min) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1350 | 125.74 | – | 6.88 | 2.01 | Ø | 8.72 | 18.27 | -147 | Clear | ~~150~~ 50 (CP) |
| ~~1400~~ | 125.75 | 0.5 | 7.08 | 2.04 | Ø | 7.44 | 17.99 | -130 | | |
| ~~1405~~ 1405 | 125.75 | 0.75 | 7.17 | 2.07 | Ø | 6.80 | 17.91 | -117 | | 100 |
| 1410 | 125.83 | 1.25 | 7.12 | 2.05 | Ø | 6.24 | 17.98 | -106 | | |
| 1415 | 125.94 | 1.75 | 6.98 | 2.07 | Ø | 5.98 | 17.15 | -97 | | |
| 1420 | 126.05 | 2.25 | 6.87 | 2.06 | Ø | 5.40 | 17.03 | -92 | | |
| 1425 | 126.11 | 2.75 | 6.80 | 2.07 | 6.1 | 5.02 | 16.95 | -97 | | |
| 1430 | 126.19 | 3.25 | 6.78 | 2.07 | 1.3 | 4.48 | 16.74 | -103 | | |
| 1435 | 126.24 | 3.75 | 6.87 | 2.08 | 2.5 | 4.03 | 17.15 | -123 | | |
| 1440 | 126.26 | 4.25 | 6.81 | 2.07 | 1.0 | 3.54 | 17.45 | -130 | | |
| 1445 | 126.27 | 4.75 | 6.61 | 2.07 | 3.3 | 2.62 | 17.95 | -124 | | |
| 1450 | 126.23 | 5.25 | 6.56 | 2.07 | 1.6 | 2.59 | 18.13 | -117 | | |
| 1455 | 126.23 | 5.75 | 6.74 | 2.06 | 27.9 | 2.54 | 18.53 | -111 | | |
| 1500 | 126.23 | 6.25 | 7.32 | 2.06 | 30.4 | 2.56 | 18.86 | -107 | | |
| 1505 | 126.23 | 6.75 | 7.51 | 2.04 | 27.0 | 2.57 | 19.10 | -105 | | |
| 1510 | 126.23 | 7.25 | 7.53 | 2.05 | 25.4 | 2.57 | 19.22 | -102 | See p.2 → | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| 3 | MW-50-160D | VOCs | HCl | VOAs | | 1600 | *began measurements after prolonged start due to bad water line + leaky flow-through cell |
| 3 | MW ~~50~~ -092022 (CP) | VOCs | HCl | VOAs | | ~~1600~~ 1700 (CP) | |
| | | | | | | | |

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# Low-Flow Groundwater Sampling Monitoring Form



| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | MW-50-160D | **Site ID:** | EPT - Ithaca, New York | **Sample Date:** | 4/20/22 |
| **Well Diameter** | 4 in | **Sampling Event:** | Quarterly Groundwater Sampling | | |
| **Depth to Water** | 128.31 ft | | | | |
| **Total Well Depth** | 163.50 ft | **Samplers** | C. Porreca | | |
| **Screen Length** | N/A ft | **Weather Conditions and Notes:** | 69°F | | |
| **Pump Intake** | ~161.0 ft | **Flow Rate** | 100 mL/min | | |

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

## Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

Air temp: 69 °F | Start purge: | End purge: | Pump Type: QED Sample pro w/ MP-15 and $CO_2$

| Time | DTW | Purge Volume (L) | pH | Conductivity (mS/cm) | Turbidity (NTU) | D.O. (mg/l) * | T (°C) | ORP (mV) | Appearance of Purge Water | Flow Rate (mL/min) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1515 | 126.25 | 7.75 | 7.58 | 2.04 | 26.6 | 2.61 | 19.35 | -102 | | |
| 1520 | 126.25 | 8.25 | 7.58 | 2.04 | 24.4 | 2.65 | 19.48 | -100 | | |
| 1525 | 126.24 | 8.75 | 7.62 | 2.04 | 22.7 | 2.70 | 19.68 | -99 | | |
| 1530 | 126.24 | 9.25 | 7.64 | 2.04 | 25.2 | 2.70 | 19.82 | -99 | | |
| 1535 | 126.24 | 9.75 | 7.62 | 2.04 | 19.9 | 2.72 | 19.84 | -95 | | |
| 1540 | 126.24 | 10.25 | 7.56 | 2.03 | 20.6 | 2.71 | 20.11 | -92 | | |
| 1545 | 126.24 | 10.75 | 7.55 | 2.04 | 19.3 | 2.78 | 20.08 | -91 | | |
| 1550 | 126.24 | 11.25 | 7.53 | 2.05 | 17.4 | 2.80 | 20.14 | -87 | | |
| 1555 | 126.24 | 11.75 | 7.53 | 2.05 | 18.4 | 2.85 | 20.28 | -84 | | |
| | | | | | | | | | | |
| * | Prior to sampling: shut off vehicle and purging ceased - sampled via gravity method from remaining gw in tubing | | | | | | | | | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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# Low-Flow Groundwater Sampling Monitoring Form

| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | EXB-10 | **Site ID:** | EPT - Ithaca, New York | **Sample Date:** 9/20/22 | 9/20/22 |
| **Well Diameter** | 4 in | **Sampling Event:** | Quarterly Groundwater Sampling | | |
| **Depth to Water** | 34.96 ft | | | | |
| **Total Well Depth** | 63.79 ft | **Samplers** | Chuck Porreca | | |
| **Screen Length** | N/A ft | **Weather Conditions and Notes:** | 62°F, mostly cloudy | | |
| **Pump Intake** | 55.0 ft | **Flow Rate** | 50 mL/min | | |

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

## Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

Air temp: 62 °F | Start purge: 915 | End purge: 1045 | Pump Type: QED Sample pro w/ MP-15 and $CO_2$

| Time | DTW | Purge Volume (L) | pH | Conductivity (mS/cm) | Turbidity (NTU) | D.O. (mg/l) * | T (°C) | ORP (mV) | Appearance of Purge Water | Flow Rate (mL/min) |
|---|---|---|---|---|---|---|---|---|---|---|
| 930 | 45.20 | 0.75 | 9.12 | 2.49 | 18.0 | 6.29 | 15.78 | -213 | Clear; chemical | 50 |
| 935 | 45.45 | 1.0 | 9.68 | 2.48 | 12.9 | 6.02 | 15.47 | -214 | odor; | |
| 940 | 45.70 | 1.25 | 10.19 | 2.49 | 13.0 | 5.27 | 15.36 | -216 | dark gray/black | |
| 945 | 45.95 | 1.5 | 10.31 | 2.50 | 15.3 | 5.16 | 15.26 | -216 | tint | |
| 950 | 46.39 | 1.75 | 10.40 | 2.50 | 15.4 | 4.87 | 15.34 | -217 | | |
| 955 | 46.69 | 2.0 | 10.44 | 2.51 | 10.5 | 4.59 | 15.33 | -218 | | |
| 1000 | 47.00 | 2.25 | 10.57 | 2.53 | 7.1 | 4.27 | 15.28 | -219 | | |
| 1005 | 47.25 | 2.5 | 10.69 | 2.54 | 5.7 | 4.04 | 15.26 | -226 | | |
| 1010 | 47.56 | 2.75 | 10.73 | 2.55 | 6.3 | 3.92 | 15.12 | -222 | | |
| 1015 | 47.85 | 3.0 | 10.83 | 2.56 | 4.5 | 3.66 | 15.21 | -224 | | |
| 1020 | 48.19 | 3.25 | 10.95 | 2.57 | 4.1 | 3.44 | 15.22 | -231 | | |
| 1025 | 48.44 | 3.5 | 11.01 | 2.58 | 3.9 | 3.27 | 15.20 | -228 | | |
| 1030 | 48.74 | 3.75 | 11.06 | 2.57 | 3.3 | 3.04 | 15.23 | -230 | | |
| 1035 | 49.03 | 4.0 | 11.09 | 2.58 | 3.5 | 2.89 | 15.24 | -232 | | |
| 1040 | 49.36 | 4.25 | 11.13 | 2.58 | 3.9 | 2.66 | 15.35 | -236 | | |
| 1045 | 49.63 | 4.5 | 11.17 | 2.58 | 3.1 | 2.55 | 15.36 | -237 | | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| 9 (MS/MSD) | EXB-10 | VOCs | HCl | VOAs | | 1050 | Flow through cell ~~may be~~ loose/leaking (FB) |
| | | | | | | | |
| | | | | | | | |

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# Low-Flow Groundwater Sampling Monitoring Form

| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | EXB-9 | | **Site ID:** | EPT - Ithaca, New York | **Sample Date:** 4/19/22 |
| **Well Diameter** | 4 | in | **Sampling Event:** | Quarterly Groundwater Sampling | |
| **Depth to Water** | 42.05 | ft | | | |
| **Total Well Depth** | 63.37 | ft | **Samplers** | C. Porreca | |
| **Screen Length** | N/A | ft | **Weather Conditions and Notes:** | 70°F, scattered rain storms | |
| **Pump Intake** | 55.0 | ft | **Flow Rate** | 50 mL/min | |

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

## Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

Air temp: °F | Start purge: 1215 | End purge: 1355 | Pump Type: QED Sample pro w/ MP-15 and $CO_2$

| Time | DTW | Purge Volume (L) | pH | Conductivity (mS/cm) | Turbidity (NTU) | D.O. (mg/l) * | T (°C) | ORP (mV) | Appearance of Purge Water | Flow Rate (mL/min) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1230 | 42.90 | 0.75 | 4.85 | 1.72 | Ø | 0.94 | 15.86 | -78 | clear | 50 |
| 1235 | 42.96 | 1.00 | 4.91 | 1.72 | Ø | 1.34 | 16.95 | -78 | | |
| 1240 | 43.02 | 1.25 | 5.04 | 1.73 | Ø | 1.14 | 17.49 | -77 | | |
| 1245 | 43.10 | 1.50 | 5.12 | 1.72 | Ø | 0.85 | 17.99 | -79 | | |
| 1250 | 43.21 | 1.75 | 5.16 | 1.72 | Ø | 0.64 | 18.21 | -74 | | |
| 1255 | 43.30 | 2.00 | 5.24 | 1.71 | Ø | 0.79 | 18.67 | -74 | | |
| 1300 | 43.36 | 2.25 | 5.30 | 1.71 | Ø | 0.98 | 19.04 | -74 | | |
| 1305 | 43.39 | 2.50 | 5.33 | 1.71 | Ø | 0.83 | 19.21 | -73 | | |
| 1310 | 43.49 | 2.75 | 5.35 | 1.71 | Ø | 0.88 | 19.41 | -71 | | |
| 1315 | 43.49 | 3.00 | 5.37 | 1.70 | Ø | 0.90 | 19.52 | -70 | | |
| 1320 | 43.56 | 3.25 | 5.38 | 1.70 | Ø | 0.55 | 19.58 | -69 | | |
| 1325 | 43.61 | 3.50 | 5.39 | 1.70 | Ø | 0.77 | 19.62 | -69 | | |
| 1330 | 43.67 | 3.75 | 5.39 | 1.70 | Ø | 0.88 | 19.57 | -68 | | |
| 1335 | 43.71 | 4.00 | 5.40 | 1.69 | Ø | 0.99 | 19.55 | -68 | | |
| 1340 | 43.75 | 4.25 | 5.47 | 1.69 | Ø | 0.73 | 19.50 | -67 | | |
| 1345 | 43.80 | 4.50 | 5.64 | 1.68 | Ø | 0.69 | 19.28 | -67 | *Additional readings on back → | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| 3 | EXB-9 | VOCs | HCl | VOA | | 1400 | Leaky Flow-through cell |
| | | | | | | | |
| | | | | | | | |

| | DTW (ft) | Purge Vol. (L) | pH | Conductivity MS/cm | Turbidity (NTU) | DO (mg/L) | Temp. (°C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|
| 1350 | 43.79 | 4.75 | 5.62 | 1.68 | Ø | 0.76 | 19.07 | -68 |
| 1355 | 43.79 | 5.00 | 5.56 | 1.68 | Ø | 0.66 | 18.88 | -68 |

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# Groundwater Sampling Monitoring Form

| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | MW-18A | **Site:** | EPT - Ithaca, NY | **Sample Date:** | 9/21/22 |
| **Well Diameter** | 2 in | **Sampling Event** | Quarterly GW Sampling | | |
| **Depth to Water (btoc)** | 5.33 ft | **Samplers** | NTW, EM | | |
| **Total Well Depth (btoc)** | 19.9 ft | **Weather Conditions:** | 77°F, Sunny | | |
| **Height of Water Column** | 14.57 ft | **Notes:** | | | |
| **Well Volume** | 2.37 x 3 gal 7.12 | | | | |

## Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

| Air temp: 77°F °F | Start purge: 1500 | End purge: | Pump Type: Bailer |
|---|---|---|---|

## Well Purging Information

| Purge Volume (gal) | D.O. (mg/L) | T (°C) | ORP (mV) | S.C. (mS/cm) | Turb. (NTU) | pH | Notes |
|---|---|---|---|---|---|---|---|
| INT | 10.27 | 19.37 | -56 | 1.02 | 14.9 | 6.95 | |
| ~~0.6~~ 0.9 | 5.60 | 17.59 | -79 | 1.04 | 43.1 | 6.85 | |
| ~~1.2~~ 1.8 | 4.90 | 16.74 | -81 | 1.05 | 2.8 | 6.80 | |
| ~~1.8~~ 2.7 | 1.38 | 15.22 | -80 | 1.07 | 0.0 | 6.78 | |
| 3.6 | 9.99 | 14.75 | -83 | 1.08 | 349 | 6.75 | |
| 4.5 | 7.64 | 14.41 | -82 | 1.09 | 209 | 6.74 | |
| 5.4 | 7.80 | 14.29 | -79 | 1.08 | 308 | 6.73 | |
| 6.3 | 1.57 | 13.95 | -79 | 1.08 | >1000 | 6.71 | |
| bailed dry | @ 7.0 gallons | | | | | | |
| | | | | | | | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
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# Groundwater Sampling Monitoring Form

| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | MW-22B | **Site:** | EPT - Ithaca, NY | **Sample Date:** | 9/27/22 |
| **Well Diameter** | 2 in | **Sampling Event** | Quarterly GW Sampling | | |
| **Depth to Water (btoc)** | 13.24 ft | **Samplers** | NTW, EM | | |
| **Total Well Depth (btoc)** | 16.55 ft | **Weather Conditions:** | 77°F, sunny | | |
| **Height of Water Column** | 3.31 ft | **Notes:** | | | |
| **Well Volume** | 0.54 x3 gal 1.61 | | | | |

## Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

| | | | | | |
|---|---|---|---|---|---|
| Air temp: | 77 °F | Start purge: | | End purge: | Pump Type: Bailer |

## Well Purging Information

| Purge Volume (gal) | D.O. (mg/L) | T (°C) | ORP (mV) | S.C. (mS/cm) | Turb. (NTU) | pH | Notes |
|---|---|---|---|---|---|---|---|
| INT | 4.01 | 18.38 | 156 | 0.824 | 0.0 | 7.01 | |
| 0.6 | 4.16 | 17.07 | 126 | 0.857 | 233 | 6.99 | |
| 0.9 | 3.11 | 16.45 | 78 | 0.868 | 177 | 6.98 | |
| 1.2 | 1.94 | 16.17 | 61 | 0.870 | 169 | 6.97 | |
| bailed dry | @ 1.3 | | | | | | |
| | | | | | | | |
| | | | | | | | |
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## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
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# Groundwater Sampling Monitoring Form

| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | MW-36A | **Site:** | EPT - Ithaca, NY | **Sample Date:** | 9/23/21 |
| **Well Diameter** | 2 in | **Sampling Event** | Quarterly GW Sampling | | |
| **Depth to Water (btoc)** | 6.00 ft | **Samplers** | NTW, EM | | |
| **Total Well Depth (btoc)** | 19.9 ft | **Weather Conditions:** | 65°F, sunny | | |
| **Height of Water Column** | 13.9 ft | **Notes:** | | | |
| **Well Volume** | 2.27 x 3 gal 6.8 | | | | |

## Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

| Air temp: °F | Start purge: | End purge: | Pump Type: Bailer |
|---|---|---|---|

## Well Purging Information

| Purge Volume (gal) | D.O. (mg/L) | T (°C) | ORP (mV) | S.C. (mS/cm) | Turb. (NTU) | pH | Notes |
|---|---|---|---|---|---|---|---|
| Init | ~~8.00~~ 1.06 | 15.42 | -42 | 2.00 | 15.8 | 6.11 | |
| 1.2 | 1.42 | 16.45 | -67 | 1.54 | 44.6 | 6.33 | |
| 2.4 | 1.50 | 15.81 | -61 | 1.88 | 49.1 | 6.31 | |
| 3.6 | 1.71 | 16.12 | -64 | 1.71 | 276 | 6.39 | |
| 4.8 | 1.53 | 16.11 | -60 | 1.78 | 704 | 6.43 | |
| 6.0 | 1.413 | 15.63 | -55 | 1.97 | >1000 | 6.41 | |
| 7.2 | 1.45 | 15.17 | -58 | 2.06 | >1000 | 6.44 | |
| 8.4 | 1.78 | 14.70 | -61 | 2.15 | >1000 | 6.47 | |
| | | | | | | | |
| | | | | | | | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
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**Groundwater Sampling Monitoring Form**

| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | MW-35A | **Site:** | EPT - Ithaca, NY | **Sample Date:** | 9/22/20 |
| **Well Diameter** | 2 in | **Sampling Event** | Quarterly GW Sampling | | |
| **Depth to Water (btoc)** | 5.05 ft | **Samplers** | NTW, EM | | |
| **Total Well Depth (btoc)** | 17.5 ft | **Weather Conditions:** | | | |
| **Height of Water Column** | 12.45 ft | **Notes:** | | | |
| **Well Volume** | 2.03 x 3 = gal 6.09 | | | | |

**Instrument Calibration Information**

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

**Well Purging Information**

| Air temp: °F | Start purge: | End purge: | Pump Type: Bailer |
|---|---|---|---|

**Well Purging Information**

| Purge Volume (gal) | D.O. (mg/L) | T (°C) | ORP (mV) | S.C. (mS/cm) | Turb. (NTU) | pH | Notes |
|---|---|---|---|---|---|---|---|
| Init | 2.85 | 16.75 | ~~1.4~~ 22 | 1.44 | 0.0 | 5.50 | |
| 0.6 | 2.43 | 15.90 | -27 | 1.36 | 71.4 | 5.71 | |
| 1.2 | 2.20 | 15.36 | -46 | 1.35 | 230 | 5.89 | |
| 1.8 | 3.88 | 15.40 | -60 | 1.36 | 628 | 5.94 | |
| 2.4 | 2.08 | 15.13 | -65 | 1.36 | 406 | 6.01 | |
| 3.0 | 2.08 | 15.00 | -69 | 1.35 | 517 | 6.05 | |
| 3.6 | 1.95 | 14.91 | -70 | 1.35 | 570 | 6.08 | |
| ~~3~~ 4.5 | 1.40 | 15.01 | -74 | 1.35 | 857 | 6.12 | |
| 6 | 1.63 | 14.87 | -73 | 1.35 | 344 | 6.15 | |
| 7 | 1.64 | 14.99 | -76 | 1.35 | 805 | 6.15 | |

**Laboratory Analysis Information**

| ~~# of Bottles~~ | ~~Sample ID~~ | | ~~Analytes~~ | ~~Preservative~~ | ~~Bottle Type~~ | ~~Lab~~ | Sample Time | Comments |
|---|---|---|---|---|---|---|---|---|
| 8 | 1.58 | 14.83 | -77 | 1.35 | 424 | 6.15 | | |
| 9 | 1.55 | 14.97 | -77 | 1.34 | 973 | 6.14 | | |
| ~~10~~ 12 | 1.56 | 15.17 | -76 | 1.34 | >1000 | 6.15 | | |

Purged dry @ 12 gal

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# Groundwater Sampling Monitoring Form

| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | MW-5B | **Site:** | EPT - Ithaca, NY | **Sample Date:** | 9/23/22 |
| **Well Diameter** | 4 in | **Sampling Event** | Quarterly GW Sampling | | |
| **Depth to Water (btoc)** | 12.87 ft | **Samplers** | NTW, EM | | |
| **Total Well Depth (btoc)** | 18.50 ft | **Weather Conditions:** | 78°F, sunny | | |
| **Height of Water Column** | 5.63 ft | **Notes:** | | | |
| **Well Volume** | ~~3~~ 3.67 x 3 gal | 11.0 | | | |

## Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

| Air temp: | °F | Start purge: 1400 | End purge: | Pump Type: Bailer |
|---|---|---|---|---|

## Well Purging Information

| Purge Volume (gal) | D.O. (mg/L) | T (°C) | ORP (mV) | S.C. (mS/cm) | Turb. (NTU) | pH | Notes |
|---|---|---|---|---|---|---|---|
| INT | 9.11 | 17.23 | 33 | 1.04 | 168 | 6.66 | |
| 2 | 7.34 | 16.81 | 45 | 1.02 | 30.0 | 6.70 | |
| 3 | 8.10 | 16.39 | 54 | 1.03 | 85.6 | 6.74 | |
| 4 | 9.68 | 16.20 | 60 | 1.04 | 61.5 | 6.76 | |
| 5 | 9.54 | 15.99 | 67 | 1.03 | 106 | 6.78 | |
| 5.25 | bailed dry | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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# Groundwater Sampling Monitoring Form

| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | MW-3B | **Site:** | EPT - Ithaca, NY | **Sample Date:** | 9/23/22 |
| **Well Diameter** | 4 in | **Sampling Event** | Quarterly GW Sampling | | |
| **Depth to Water (btoc)** | 14.41 ft | **Samplers** | NTW, EM | | |
| **Total Well Depth (btoc)** | 25.05 ft | **Weather Conditions:** | | | |
| **Height of Water Column** | 10.61 ft | **Notes:** | | | |
| **Well Volume** | 6.95 x 3 gal 20.8 | | | | |

## Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

| Air temp: | °F | Start purge: 1325 | End purge: | Pump Type: | Bailer |
|---|---|---|---|---|---|

## Well Purging Information

| Purge Volume (gal) | D.O. (mg/L) | T (°C) | ORP (mV) | S.C. (mS/cm) | Turb. (NTU) | pH | Notes |
|---|---|---|---|---|---|---|---|
| INT | 6.79 | 18.92 | 159 | 0.741 | 61.8 | 7.41 | |
| 2 | 3.00 | 17.26 | 170 | 0.835 | 342 | 7.30 | |
| 4 | 2.70 | 16.59 | 178 | 0.868 | 608 | 7.24 | |
| 6 | 3.24 | 15.81 | 36 | 1.15 | >1000 | 7.02 | |
| 8 | 2.32 | 15.46 | 35 | 1.25 | >1000 | 6.75 | |
| bailed dry | @ 8.75 gal | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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# Groundwater Sampling Monitoring Form

| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | MW-7D | **Site:** | EPT - Ithaca, NY | **Sample Date:** | 9/24/22 |
| **Well Diameter** | 4 in | **Sampling Event** | Quarterly GW Sampling | | |
| **Depth to Water (btoc)** | 12.96 ft | **Samplers** | NTW, EM | | |
| **Total Well Depth (btoc)** | 20.50 ft | **Weather Conditions:** | 74°F, sunny | | |
| **Height of Water Column** | 7.54 ft | **Notes:** | | | |
| **Well Volume** | 4.92×3 gal 14.8 | | | | |

## Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

| Air temp: 74 °F | Start purge: 1245 | End purge: | Pump Type: Bailer |
|---|---|---|---|

## Well Purging Information

| Purge Volume (gal) | D.O. (mg/L) | T (°C) | ORP (mV) | S.C. (mS/cm) | Turb. (NTU) | pH | Notes |
|---|---|---|---|---|---|---|---|
| INT | 3.40 | 18.98 | 106 | 0.814 | 965 | 7.19 | |
| 1 | 4.64 | 17.51 | 108 | 0.816 | 893 | 7.20 | |
| 2 | 3.26 | 16.90 | 113 | 0.815 | 921 | 7.20 | |
| 3 | 2.05 | 16.28 | 116 | 0.819 | 709 | 7.20 | |
| 4 | 2.43 | 15.92 | 118 | 0.815 | 598 | 7.19 | |
| 5 | 2.70 | 15.56 | 117 | 0.815 | 496 | 7.18 | |
| ~~5~~ bailed | dry @ | 5.5 gallons. | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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# Groundwater Sampling Monitoring Form

| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | MW-1B | **Site:** | EPT - Ithaca, NY | **Sample Date:** | 9/21/22 |
| **Well Diameter** | 4 in | **Sampling Event** | Quarterly GW Sampling | | |
| **Depth to Water (btoc)** | 4.62 ft | **Samplers** | NTW, EM | | |
| **Total Well Depth (btoc)** | 19.77 ft | **Weather Conditions:** | 72°F, Sunny | | |
| **Height of Water Column** | 15.15 ft | **Notes:** | | | |
| **Well Volume** | 9.89 x 3 gal 29.6 | | | | |

## Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

| Air temp: | 72 °F | Start purge: | 1102 | End purge: | Pump Type: | Bailer |
|---|---|---|---|---|---|---|

## Well Purging Information

| Purge Volume (gal) | D.O. (mg/L) | T (°C) | ORP (mV) | S.C. (mS/cm) | Turb. (NTU) | pH | Notes |
|---|---|---|---|---|---|---|---|
| INT | 7.02 | 19.15 | 244 | 0.689 | 0.0 | 6.55 | |
| 2 | 5.31 | 18.65 | 223 | 0.607 | 35.7 | 6.48 | |
| 4 | 4.96 | 18.12 | 214 | 0.638 | 66.9 | 6.57 | |
| 6 | 5.11 | 17.57 | 215 | 0.647 | 222 | 6.63 | |
| 8 | 4.23 | 17.42 | 205 | 0.641 | 295 | 6.69 | |
| bailed dry | @ 9.0 | gallons. | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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# Groundwater Sampling Monitoring Form

| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | MW-20B | **Site:** | EPT - Ithaca, NY | **Sample Date:** | 7/22 |
| **Well Diameter** | 2 in | **Sampling Event** | Quarterly GW Sampling | | |
| **Depth to Water (btoc)** | 11.84 ft | **Samplers** | NW, EM | | |
| **Total Well Depth (btoc)** | 20.07 ft | **Weather Conditions:** | 64°F, cloudy | | |
| **Height of Water Column** | 8.23 ft | **Notes:** | | | |
| **Well Volume** | 1.34×3 gal 4,02 | | | | |

## Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

| | | | | | |
|---|---|---|---|---|---|
| Air temp: | 64 °F | Start purge: | 1330 | End purge: | Pump Type: Bailer |

## Well Purging Information

| Purge Volume (gal) | D.O. (mg/L) | T (°C) | ORP (mV) | S.C. (mS/cm) | Turb. (NTU) | pH | Notes |
|---|---|---|---|---|---|---|---|
| INT | 4.99 | 13.94 | 51 | 0.403 | 0.0 | 8.08 | |
| 0.6 | 6.07 | 13.70 | 57 | 0.430 | 13.1 | 7.82 | |
| 0.9 | 6.68 | 13.39 | 81 | 0.701 | 4.8 | 7.58 | |
| 1.2 | 5.02 | 13.32 | 82 | 0.607 | 23.9 | 7.61 | |
| 1.5 | 4.70 | 13.06 | 84 | 0.657 | 16.7 | 7.58 | |
| 1.8 | 6.44 | 12.99 | 87 | 0.701 | 13.9 | 7.59 | |
| 2.1 | 6.40 | 12.85 | 89 | 0.752 | 36.6 | 7.60 | |
| bailed dry @ 2.2 gal | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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# Groundwater Sampling Monitoring Form

| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | MW-4B | **Site:** | EPT - Ithaca, NY | **Sample Date:** | 9/20/22 |
| **Well Diameter** | 4 in | **Sampling Event** | Quarterly GW Sampling | | |
| **Depth to Water (btoc)** | 19.75 ft | **Samplers** | NTW, EM | | |
| **Total Well Depth (btoc)** | 22.60 ft | **Weather Conditions:** | 64°F, cloudy | | |
| **Height of Water Column** | 2.85 ft | **Notes:** | | | |
| **Well Volume** | 1.65 × 3 gal 5.5 | | | | |

## Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

| | | | | | |
|---|---|---|---|---|---|
| Air temp: | 64 °F | Start purge: | 1247 | End purge: 1300 | Pump Type: Bailer |

## Well Purging Information

| Purge Volume (gal) | D.O. (mg/L) | T (°C) | ORP (mV) | S.C. (mS/cm) | Turb. (NTU) | pH | Notes |
|---|---|---|---|---|---|---|---|
| INT | 5.13 | 16.72 | 47 | 1.20 | 11.2 | 8.17 | |
| 2.0 | 3.23 | 16.04 | 4 | 1.20 | 4.8 | 7.69 | |
| 3.0 | 2.14 | 15.72 | -40 | 1.21 | 22.3 | 7.53 | |
| 4.0 | 1.71 | 15.57 | -64 | 1.20 | 15.2 | 7.33 | |
| bailed dry @ 4.10 gal | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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# Groundwater Sampling Monitoring Form

| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | MW-8-40 | **Site:** | EPT - Ithaca, NY | **Sample Date:** | 9/21 |
| **Well Diameter** | 3 in | **Sampling Event** | Quarterly GW Sampling | | |
| **Depth to Water (btoc)** | 35.04 ft | **Samplers** | NTW, EM | | |
| **Total Well Depth (btoc)** | 42.33 ft | **Weather Conditions:** | 64°F, cloudy | | |
| **Height of Water Column** | 7.29 ft | **Notes:** | | | |
| **Well Volume** | 3.65 x 3 gal 10.9 | | | | |

## Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

| Air temp: | °F | Start purge: | End purge: | Pump Type: |
|---|---|---|---|---|
| 60+ | | 1315 | 1335 | Bailer |

## Well Purging Information

| Purge Volume (gal) | D.O. (mg/L) | T (°C) | ORP (mV) | S.C. (mS/cm) | Turb. (NTU) | pH | Notes |
|---|---|---|---|---|---|---|---|
| INT | 4.71 | 14.58 | 17 | 1.25 | 0.0 | 7.78 | |
| 1.0 | 5.01 | 13.17 | 32 | 1.27 | 14.6 | 7.76 | |
| 2.0 | 10.36 | 12.61 | 44 | 1.28 | 34.0 | 7.77 | |
| 3.0 | 4.11 | 12.38 | 51 | 1.33 | 43.3 | 7.76 | |
| bailed dry @ 3.3 gallons | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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# Groundwater Sampling Monitoring Form

| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | MW-32B | **Site:** | EPT - Ithaca, NY | **Sample Date:** | 9/20/22 |
| **Well Diameter** | 2 in | **Sampling Event** | Quarterly GW Sampling | | |
| **Depth to Water (btoc)** | 4.60 ft | **Samplers** | MW, EM | | |
| **Total Well Depth (btoc)** | 10.08 ft | **Weather Conditions:** | 64°F, cloudy | | |
| **Height of Water Column** | 5.50 ft | **Notes:** | | | |
| **Well Volume** | 0.89 x 3 gal 2.7 | | | | |

## Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

| | | | | | |
|---|---|---|---|---|---|
| Air temp: 64 °F | Start purge: 1115 | End purge: 1130 | Pump Type: Bailer | | |

## Well Purging Information

| Purge Volume (gal) | D.O. (mg/L) | T (°C) | ORP (mV) | S.C. (mS/cm) | Turb. (NTU) | pH | Notes |
|---|---|---|---|---|---|---|---|
| INT | 4.74 | 18.33 | 55 | 2.86 | 3.9 | 7.50 | |
| 0.6 | 9.36 | 18.44 | 59 | 2.69 | 45.6 | 7.64 | |
| 0.9 | 6.81 | 18.44 | 65 | 2.80 | 46.3 | 7.68 | |
| 1.2 | 3.70 | 18.21 | 71 | 2.90 | 67.9 | 7.69 | |
| 1.5 | 3.20 | 18.20 | 74 | 2.98 | 56.9 | 7.69 | |
| 1.8 | 3.17 | 18.21 | 76 | 301 | 49.0 | 7.72 | |
| bailed dry @ 2.0 gal | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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# Groundwater Sampling Monitoring Form

| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | MW-15C | **Site:** | EPT - Ithaca, NY | **Sample Date:** | 9/19/22 |
| **Well Diameter** | 3" in | **Sampling Event** | Quarterly GW Sampling | | |
| **Depth to Water (btoc)** | 0.68 ft | **Samplers** | MW, EM | | |
| **Total Well Depth (btoc)** | 45.70 ft | **Weather Conditions:** | 66°F, light rain. | | |
| **Height of Water Column** | 45.02 ft | **Notes:** | | | |
| **Well Volume** | 22.51 gal | | | | |

## Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

| | | | | | |
|---|---|---|---|---|---|
| Air temp: | °F | Start purge: 1450 | End purge: 1607 | Pump Type: | Bailer |

## Well Purging Information

| Purge Volume (gal) | D.O. (mg/L) | T (°C) | ORP (mV) | S.C. (mS/cm) | Turb. (NTU) | pH | Notes |
|---|---|---|---|---|---|---|---|
| INT | 10.30 | 19.50 | 26 | 0.277 | 250 | 9.40 | — |
| 5.0 | 6.35 | 19.46 | 31 | 0.127 | 79.5 | 6.25 | — |
| 10 | 1.76 | 18.63 | 25 | 0.117 | 132 | 9.74 | — |
| 15 | 8.16 | 17.49 | 35 | 0.133 | 190 | 9.63 | — |
| 20 | 6.41 | 16.50 | 46 | 0.216 | 160 | 9.37 | — |
| 25 | 10.75 | 16.02 | 42 | 0.214 | 503 | 9.23 | |
| 30 | 8.11 | 16.45 | 43 | 0.218 | 546 | 9.16 | |
| Dry @ 31 | gallons | | | | | | |
| | | | | | | | |
| | | | | | | | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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# Low-Flow Groundwater Sampling Monitoring Form

| | | | | | |
|---|---|---|---|---|---|
| **Well ID** | ~~MW-9-100~~ | **Site ID:** | EPT - Ithaca, New York | **Sample Date:** | 9/22/22 |
| **Well Diameter** | 2 in | **Sampling Event:** | Quarterly Groundwater Sampling | | |
| **Depth to Water** | 75.74 ft | **Samplers** | C. Porreca | | |
| **Total Well Depth** | 99.8 ft | **Weather Conditions and Notes:** | @ 65° F, mostly cloudy, 15mph wind, rain @ 1500 | | |
| **Screen Length** | ft | | | | |
| **Pump Intake** | ~88 ft | **Flow Rate** | 50 mL/min | | |

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

## Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

## Well Purging Information

Air temp: 65 °F | Start purge: 1410 | End purge: | Pump Type: QED Sample pro w/ MP-15 and $CO_2$

| Time | DTW | Purge Volume (L) | pH | Conductivity (mS/cm) | Turbidity (NTU) | D.O. (mg/l) * | T (°C) | ORP (mV) | Appearance of Purge Water | Flow Rate (mL/min) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1420 | 77.40 | 0.5 | 6.42 | 1.49 | 35.5 | 0.99 | 15.02 | -167 | Clear | |
| 1425 | 77.77 | 0.75 | 7.05 | 1.33 | 32.7 | 0.75 | 15.23 | -170 | | |
| 1430 | 78.23 | 1.0 | 7.41 | 1.24 | 37.9 | 0.71 | 14.88 | -170 | | |
| 1435 | 78.76 | 1.25 | 7.57 | 1.20 | 38.7 | 0.58 | 14.88 | -170 | | |
| 1440 | 79.28 | 1.5 | 7.65 | 1.17 | 39.5 | 0.44 | 14.71 | -168 | | |
| 1445 | 79.53 | 1.75 | 7.72 | 1.15 | 50.4 | 0.30 | 14.88 | -170 | | |
| 1450 | 79.75 | 2.0 | 7.76 | 1.15 | 34.5 | 0.15 | 14.70 | -170 | | |
| 1455 | 79.90 | 2.25 | 7.88 | 1.13 | 37.9 | 0.02 | 14.82 | -176 | | |
| 1500 | 80.08 | 2.5 | 7.96 | 1.14 | 36.5 | 0 | 14.55 | -178 | | |
| 1505 | 80.23 | 2.75 | 9.116 | 1.12 | 39.5 | | 14.41 | -185 | | |
| 1510 | 80.45 | 3.0 | 9.06 | 1.13 | 36.6 | | 14.35 | -188 | | |
| 1515 | 80.63 | 3.25 | 9.06 | 1.13 | 36.0 | | 14.14 | -191 | | |
| 1520 | 80.72 | 3.5 | 9.17 | 1.13 | 34.0 | | 14.05 | -194 | | |
| 1525 | 80.92 | 3.75 | 9.26 | 1.13 | 33.3 | | 14.00 | -196 | | |
| 1530 | 81.08 | 4.0 | 9.40 | 1.13 | 36.3 | | 13.92 | -200 | | |
| 1535 | 81.32 | 4.25 | 9.51 | 1.14 | 42.8 | ↓ | 13.71 | -200 | Cont'd. on back → | |

## Laboratory Analysis Information

| # of Bottles | Sample ID | Analytes | Preservative | Bottle Type | Lab | Sample Time | Comments |
|---|---|---|---|---|---|---|---|
| 3 | MW-9-100 | VOCs | HCl | VOA vials | | 1600 | -leaky flow-through cell |
| | | | | | | | |
| | | | | | | | |

TD = 100.73

| Time | DTW (Ft.) | Purge Vol. (L) | pH | Conductivity (mS/cm) | Turbidity (NTU) | D.O. (mg/L) | Temp. (°C) | ORP (mV) |
|---|---|---|---|---|---|---|---|---|
| 1540 | 81.50 | 4.5 | 9.60 | 1.13 | 45.6 | Ø | 13.86 | -203 |
| 1545 | 81.61 | 4.75 | 9.62 | 1.13 | 47.4 | ↓ | 13.79 | -204 |
| 1550 | 81.85 | 5.0 | 9.65 | 1.13 | 44.1 | ↓ | 13.85 | -205 |
| 1555 | 82.02 | 5.25 | 9.69 | 1.13 | 45.2 | ↓ | 13.84 | -208 |

# APPENDIX

# D FREE PRODUCT SURVEILLANCE REPORT

**VIA ELECTRONIC MAIL**

April 25, 2023

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 7
615 Erie Boulevard West
Syracuse, New York 13204-2400
Attn: Karen A. Cahill, Project Manager

**Subject:** **Former Emerson Power Transmission (EPT), Ithaca, NY Site No. 755010**
**Quarterly Free Product Surveillance Report No. 030 – Third and Fourth Quarter 2022**
**620 South Aurora Street, Ithaca, New York**

Dear Karen:

On behalf of Emerson, WSP USA Inc. is submitting Quarterly Free Product Surveillance Report No. 030 for the former Emerson Power Transmission site located in Ithaca, New York. This report summarizes the semi-annual free product monitoring and recovery activities for the third and fourth quarter (September through December) of 2022 at groundwater wells that have free product present in them which include MW-8B, LBA-MW-35, LBA-MW-39, MW-50-160D, and MW-47A as shown on enclosed Figure 1. The use of absorbent socks continuously collected free product throughout the quarter, and are replaced quarterly.

# SUMMARY OF RELEVANT FINDINGS

Quarterly groundwater elevation and light-phase free product monitoring and recovery were conducted on September 16, and December 12, 2022. Free product recovery is conducted using free product absorbent socks at each location and bailers, where appropriate. Following the retrieval of the free product absorbent socks, a new free product absorbent sock is deployed at each location to collect the free product.

Free product was observed in MW-47A during site activites in September 2022, subsequently MW-47A was added to the free product survalience monitoring program. No absorbent sock is deployed in MW-50-160D due to no observed measurable free product to date.

## MW-8B FREE PRODUCT MONITORING & RECOVERY

Free product was detected in MW-8B with an apparent thickness of 0.01-feet (September; Table 1). No free product was detected during the December event. In total, 0.87 gallons of the free product was recovered during this reporting period; a total of 20.07 gallons of the free product has been removed since recovery was initiated in August 2016 (Table 1).

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## LBA-MW-35 FREE PRODUCT MONITORING & RECOVERY

Free product was detected in LBA-MW-35 with an apparent thickness of 0.02-feet (September; Table 2). No free product was detected during the December event. In total, 0.97 gallons of the free product was recovered during this reporting period; a total of 14.26 gallons of the free product have been removed since recovery was initiated in October 2018 (Table 2).

## LBA-MW-39 FREE PRODUCT MONITORING & RECOVERY

Free product was detected in LBA-MW-39 with an apparent thickness of 0.05-feet (December; Table 3). No free product was detected during the September event. In total, 0.86 gallons of the free product was recovered during this reporting period; a total of 7.54 gallons of the free product have been removed since recovery was initiated in October 2018 (Table 3).

## MW-50-160D FREE PRODUCT MONITORING & RECOVERY

Free product measuring was initiated on June 21, 2021 (Table 4), no free product was detected during the September or December 2022 monitoring event. No free product was recovered during this reporting period.

## MW-47A FREE PRODUCT MONITORING & RECOVERY

Free product measuring was initiated on September 16, 2022 (Table 5). Free product was detected in MW-47A with an apparent thickness of 0.20 feet (September; Table 5) and 0.03 feet (December; Table 5). In total, 0.58 gallons of the free product was recovered during this reporting period; a total of 0.58 gallons of the free product have been removed since recovery was initiated in September 2022 (Table 5).

Subsequent semi-annual reports will continue to provide updates on the free product monitoring and recovery at groundwater wells that have free product present. As requested by the New York State Department of Environmental Conservation, free product measurements will also be reported in the semi-annual Progress Reports.

Please do not hesitate to contact me at (813) 520-4340 with any questions or concerns.

Sincerely yours,



Jeffrey Baker
Lead Consultant



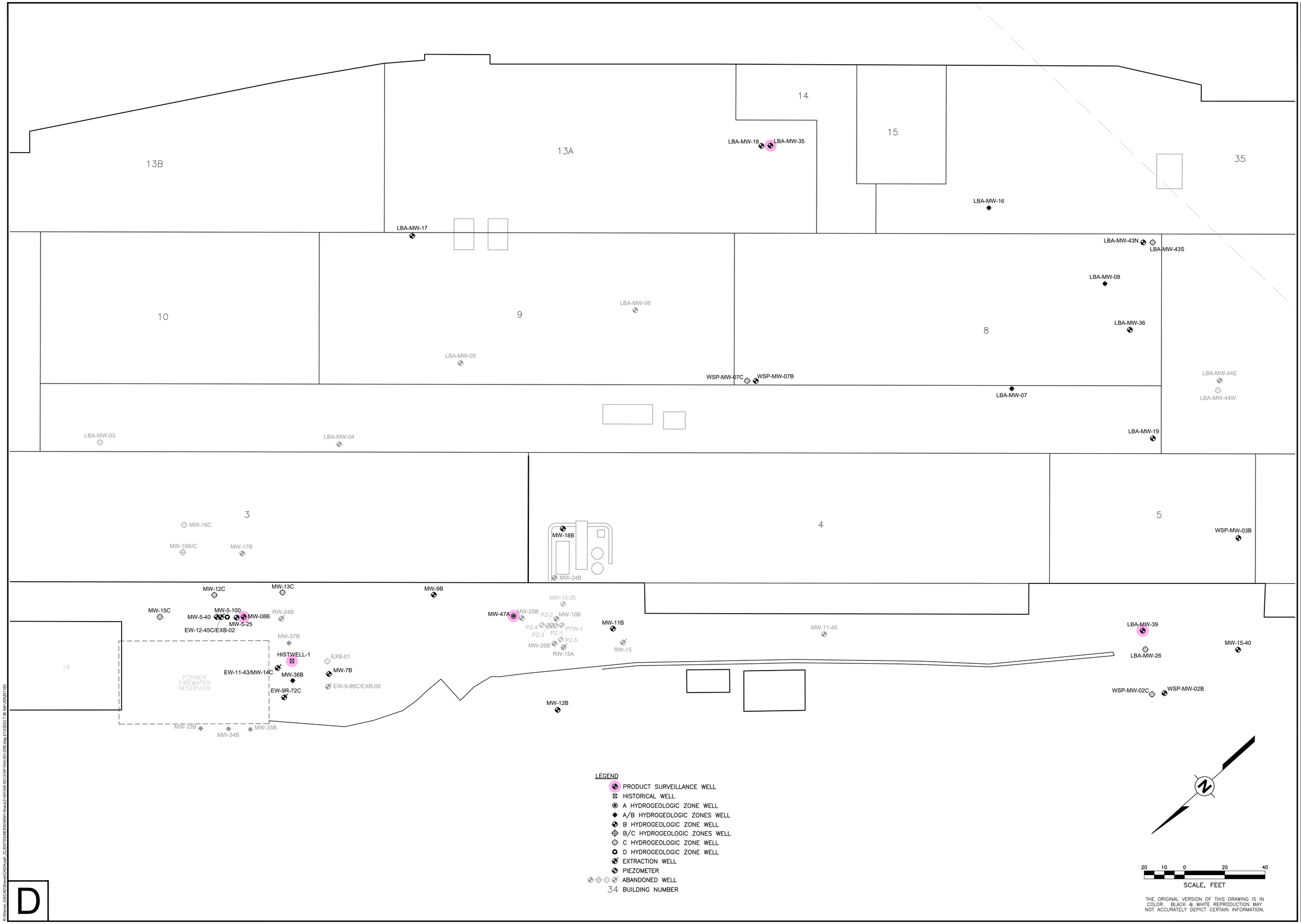
Scott Haitz
Senior Vice President, National Practice Lead

NTW: JRB
\\USHRN1SER01\es\Clients\Emerson\ITHACA\Product Surveillance and Recovery\2022 NYSDEC\Q3 and Q4

Enclosures

cc/encl.: Anthony Perretta, NYSDOH
Steve Clarke, Emerson

FIGURE




REVISIONS

| REV | DESCRIPTION |
|---|---|
| 1 | Revised: Chkd: Appr.: |
| 2 | Revised: Chkd: Appr.: |
| 3 | Revised: Chkd: Appr.: |

SEAL

DATE

DRAWN BY RJ 01/15/2019

CHECKED DC 02/13/2023

APPROVED

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# PRODUCT SURVELLANCE WELLS

FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

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FIGURE 1

Drawing Number
314P1545.001–D09

# TABLES

**Table 1**

**Product Monitoring and Removal Summary - MW-8B**
**Former Emerson Power Transmission Facility**
**Ithaca, New York**
**Third and Fourth Quarter 2022 (a)**

| Well Identification: | MW-8B |
|---|---|
| Casing Diameter (inches): | 2.00 |
| Top of Casing (ft asml) (b): | 586.08 |
| Total Depth (feet): | 21.30 |

| Date (e) | Depth to Product (ft btoc) | Depth to Water (ft btoc, b) | | Apparent Product Thickness (feet) | Apparent Product Volume (gallons) | Groundwater Elevation (ft amsl) | Product Removal (gallons) | | | | Water Removed (gallons) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Measured | Corrected | | | | Bailer | Absorbent Sock | Total Quarterly | Total Cumulative | Total Quarterly | Total Water Bailed |
| Previous to Third and Fourth Quarter 2022 | - | - | - | - | - | - | - | - | - | 19.21 | 0.05 | 1.90 |
| September 16, 2022 | 9.19 | 9.20 | 9.19 | 0.01 | 0.00 | 577.45 | 0.00 | 0.43 | 0.43 | 19.64 | 0.04 | 1.95 |
| December 12, 2022 | NM | 9.48 | 9.48 | - | - | 577.16 | 0.00 | 0.44 | 0.44 | 20.07 | 0.04 | 1.99 |

a/ Abbreviations: NM = no measureable product; "-" = not applicable; "--" = measurement not taken; ft btoc = feet below top of casing; amsl = above mean sea level; ft amsl = feet amsl; LNAPL = light non-aqueous phase liquid.

b/ All depth to water measurements were corrected to account for the depression caused by the weight of the light phase free product. For correction of the depth to water, the free phase product specific gravity of 0.90 was used.

e/ Measurements were collected monthly until September 2020 and after September 2020 measurements were collected quarterly. Free product was continuously collected using sorbent socks.

**Table 2**

**Product Monitoring and Removal Summary - LBA-MW-35**
**Former Emerson Power Transmission Facility**
**Ithaca, New York**
**Third and Fourth Quarter 2022 (a)**

| Well Identification: | LBA-MW-35 |
|---|---|
| Casing Diameter (inches): | 2.00 |
| Top of Casing (ft asml): | 612.59 |
| Total Depth (feet): | 32.00 |

| Date (c) | Depth to Product (ft btoc) | Depth to Water (ft btoc, b) | | Apparent Product Thickness (feet) | Apparent Product Volume (gallons) | Groundwater Elevation (ft amsl) | Product Removal (gallons) | | | | Water Removed (gallons) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Measured | Corrected | | | | Bailer | Absorbent Sock | Total Quarterly | Total Cumulative | Total Quarterly | Total Water Bailed |
| Previous to Third and Fourth Quarter 2022 | - | - | - | - | - | - | - | - | - | 13.29 | 0.06 | 1.33 |
| September 16, 2022 | 5.68 | 5.70 | 5.68 | 0.02 | 0.00 | 606.91 | 0.00 | 0.49 | 0.49 | 13.78 | 0.05 | 1.38 |
| December 12, 2022 | NM | 5.66 | 5.66 | - | - | 606.93 | 0.00 | 0.49 | 0.49 | 14.26 | 0.05 | 1.43 |

a/ Abbreviations: NM = no measureable product; "-" = not applicable; "--" = measurement not taken; ft btoc = feet below top of casing; amsl = above mean sea level; ft amsl = feet amsl; LNAPL = light non-aqueous phase liquid.

b/ All depth to water measurements were corrected to account for the depression caused by the weight of the light phase free product. For correction of the depth to water, the free phase product specific gravity of 0.90 was used.

c/ Measurements were collected monthly until September 2020 and after September 2020 measurements were collected quarterly. Free product was continuously collected using sorbent socks.

**Table 3**

**Product Monitoring and Removal Summary - LBA-MW-39**
**Former Emerson Power Transmission Facility**
**Ithaca, New York**
**Third and Fourth Quarter 2022 (a)**

| Well Identification: | LBA-MW-39 |
|---|---|
| Casing Diameter (inches): | 2.00 |
| Top of Casing (ft asml) (b): | 583.06 |
| Total Depth (feet): | 25.50 |

| Date (c) | Depth to Product (ft btoc) | Depth to Water (ft btoc, b) | | Apparent Product Thickness (feet) | Apparent Product Volume (gallons) | Groundwater Elevation (ft amsl) | Product Removal (gallons) | | | | Water Removed (gallons) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Measured | Corrected | | | | Bailer | Absorbent Sock | Total Quarterly | Total Cumulative | Total Quarterly | Total Water Bailed |
| Previous to Third and Fourth Quarter 2022 | - | - | - | - | - | - | - | - | - | 6.68 | 0.04 | 0.67 |
| September 16, 2022 | NM | 18.40 | 18.40 | - | - | 564.66 | 0.00 | 0.40 | 0.40 | 7.09 | 0.04 | 0.71 |
| December 12, 2022 | 18.36 | 18.41 | 18.37 | 0.05 | 0.01 | 564.70 | 0.00 | 0.45 | 0.45 | 7.54 | 0.05 | 0.75 |

a/ Abbreviations: NM = no measureable product; "-" = not applicable; "--" = measurement not taken; ft btoc = feet below top of casing; amsl = above mean sea level; ft amsl = feet amsl; LNAPL = light non-aqueous phase liquid.

b/ All depth to water measurements were corrected to account for the depression caused by the weight of the light phase free product. For correction of the depth to water, the free phase product specific gravity of 0.90 was used.

c/ Measurements were collected monthly until September 2020 and after September 2020 measurements were collected quarterly. Free product was continuously collected using sorbent socks.

**Table 4**

**Product Monitoring and Removal Summary - MW-50-160D**
**Former Emerson Power Transmission Facility**
**Ithaca, New York**
**Third and Fourth Quarter 2022 (a)**

| Well Identification: | MW-50-160D |
|---|---|
| Casing Diameter (inches): | 4.00 |
| Top of Casing (ft asml) (b): | 587.42 |
| Total Depth (feet): | 163.53 |

| Date | Depth to Product (ft btoc) | Depth to Water (ft btoc, b) | | Apparent Product Thickness (feet) | Apparent Product Volume (gallons) | Groundwater Elevation (ft amsl) | Product Removal (gallons) | | | | Water Removed (gallons) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Measured | Corrected | | | | Bailer | Absorbent Sock | Total Quarterly | Total Cumulative | Total Quarterly | Total Water Bailed |
| Previous to Third and Fourth Quarter 2022 | - | - | - | - | - | - | - | - | - | - | - | 0.00 |
| September 16, 2022 | NM | 121.18 | 121.18 | - | - | 465.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| December 12, 2022 | NM | 129.09 | 129.09 | - | - | 457.33 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

a/ Abbreviations: NM = no measureable product; "-" = not applicable; "--" = measurement not taken; ft btoc = feet below top of casing; amsl = above mean sea level; ft amsl = feet amsl; LNAPL = light non-aqueous phase liquid.

b/ All depth to water measurements were corrected to account for the depression caused by the weight of the light phase free product. For correction of the depth to water, the free phase product specific gravity of 0.90 was used.

**Table 5**

**Product Monitoring and Removal Summary - MW-47A**
**Former Emerson Power Transmission Facility**
**Ithaca, New York**
**Third and Fourth Quarter 2022 (a)**

| | |
|---|---|
| **Well Identification:** | **MW-47A** |
| **Casing Diameter (inches):** | **4.00** |
| **Top of Casing (ft asml) (b):** | **586.70** |
| **Total Depth (feet):** | **18.75** |

| Date | Depth to Product (ft btoc) | Depth to Water (ft btoc, b) | | Apparent Product Thickness (feet) | Apparent Product Volume (gallons) | Groundwater Elevation (ft amsl) | Product Removal (gallons) | | | | Water Removed (gallons) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Measured | Corrected | | | | Bailer | Absorbent Sock | Total Quarterly | Total Cumulative | Total Quarterly | Total Water Bailed |
| Previous to Third and Fourth Quarter 2022 | - | - | - | - | - | - | - | - | - | 0.00 | - | 0.00 |
| September 16, 2022 | 11.77 | 11.97 | 11.79 | 0.20 | 0.033 | 574.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| December 12, 2022 | 11.88 | 11.91 | 11.88 | 0.03 | 0.00 | 574.82 | 0.00 | 0.58 | 0.58 | 0.58 | 0.06 | 0.06 |

a/ Abbreviations: NM = no measureable product; "-" = not applicable; "--" = measurement not taken; ft btoc = feet below top of casing; amsl = above mean sea level; ft amsl = feet amsl; LNAPL = light non-aqueous phase liquid.

b/ All depth to water measurements were corrected to account for the depression caused by the weight of the light phase free product. For correction of the depth to water, the free phase product specific gravity of 0.90 was used.